

## CD Player

# CD-6010

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#### INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

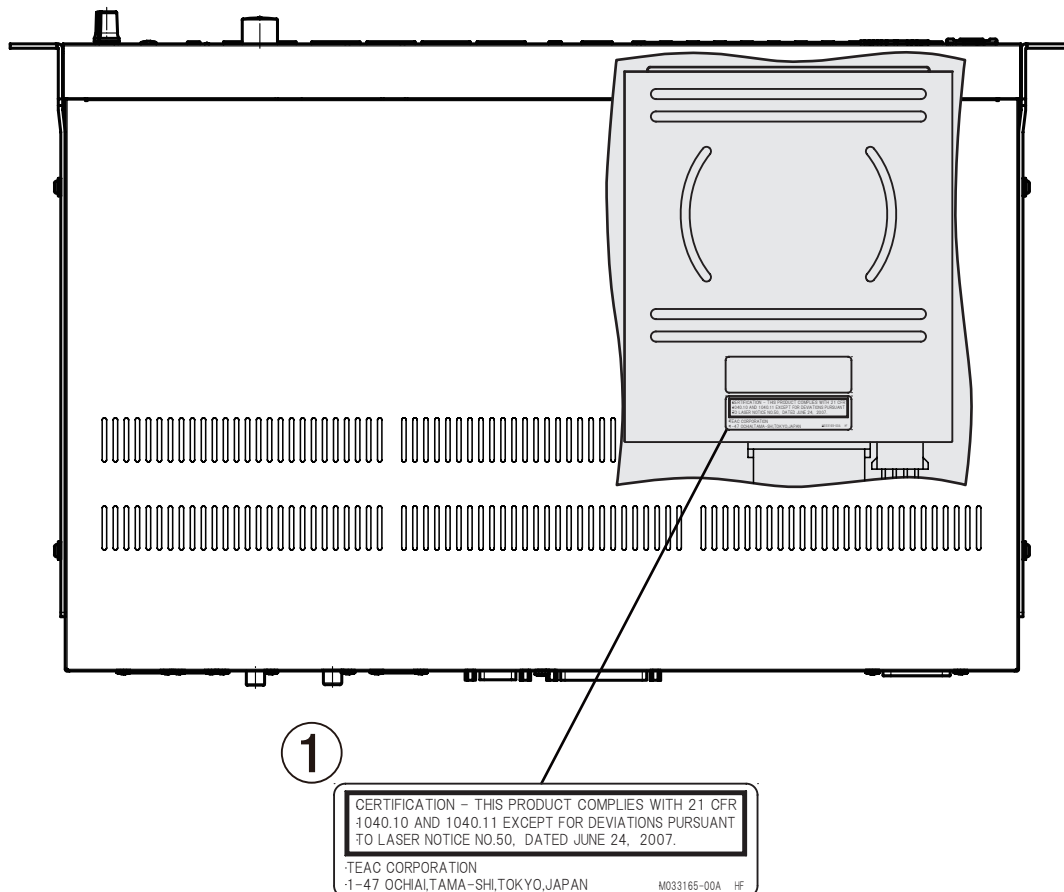
# 1. SAFETY INFORMATION

## 安全規格

### ● CAUTIONS ABOUT LASER RADIATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.



### ● Cautions

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.

	Type	: HOF-1501XB
	Manufacturer	: Hitachi Media Electronics
<b>Optical pickup :</b>	Laser output	: Less than 0.5 mW on the objective lens
	Wavelength	: 785 nm ±22nm
	Standard	: IEC60825-1 : 2007

### ● CAUTION for products that use replaceable lithium batteries:

There is danger of explosion if a battery is replaced with an incorrect type of battery.

Replace only with the same or equivalent type

## 2. Specifications

### 仕様

#### Media and formats

##### Device type

CD player

##### Compatible discs

Compact discs (12cm/8cm, including CD-R discs)

##### Playable disc types

CD-A, CD-ROM (ISO9660 LEVEL 1/2/JOLIET format)

##### Playable file formats

Audio CD (CD-DA), MP3 (MPEG Audio Layer III), WAV

##### MP3 playback specifications

Audio Modes : stereo/mono  
Sampling Frequency : 32 kHz/44.1 kHz/48 kHz  
Bit Rate : 32 kbps~320 kbps and VBR

##### WAV playback specifications

Sampling Frequency : 32 kHz/44.1 kHz/48 kHz  
Sampling Bit Rate : 16 bit

##### Audio CD playback specifications

Sampling Frequency : 44.1 kHz  
Sampling Bit Rate : 16 bit  
Number of Channels : 2

#### Analog audio output

##### Analog outputs connector (UNBALANCED)

Connector : RCA pin jacks  
Output impedance : 200 Ω  
Standard output level : -10 dBV (0.32 Vrms)  
Maximum output level : +6 dBV (2.0 Vrms)

##### Analog outputs connector (BALANCED)

Connector : XLR-3-32 (1: GND, 2: HOT, 3: COLD)  
Output impedance : 100 Ω  
Standard Output level : +4 dBu (1.23 Vrms)  
Maximum Output level : +24 dBu (12.28 Vrms)

##### PHONES connector

Connector : 6.3mm (1/4") standard stereo jack  
Output impedance : 100 Ω  
Maximum output level : 45 mW + 45 mW or more  
(THD+N 0.1% or less, 32Ω load)

#### Digital audio output

##### Digital output connector (COAXIAL)

Connector : RCA pin jack  
Supported signal formats: IEC 60958-3 standard for consumer use  
IEC 60958-4 for professional use  
Output impedance : 75 Ω  
Output level : 0.5Vp-p

##### Digital output connector (XLR)

Connector : XLR-3-32 (1: GND, 2: HOT, 3: COLD)  
Supported signal formats: IEC 60958-3 standard for consumer use  
IEC 60958-4 for professional use  
Output impedance : 110 Ω

#### 定格

##### 形式

CDプレーヤー

##### 使用ディスク

コンパクトディスク (12cm / 8cm、CD-R DISC 対応のみ)

##### 再生可能ディスク

CD-DA、CD-ROM ISO9660 LEVEL 1/2/JOLIET format

##### 再生可能フォーマット

オーディオCD (CD-DA)、MPEG Audio Layer III (MP3)、WAV

##### MP3再生仕様

フォーマット : STEREO/MONO  
サンプリング周波数: 32kHz/44.1kHz/48kHz  
ビットレート : 32kbps ~ 320kbps、およびVBR

##### WAV再生仕様

サンプリング周波数: 32kHz/44.1kHz/48kHz  
量子化ビット数 : 16bit

##### オーディオCD再生仕様

サンプリング周波数: 44.1kHz  
量子化ビット数 : 16bit  
チャンネル数 : 2チャンネル

#### アナログオーディオ出力定格

##### ANALOG OUTPUTS (UNBALANCED) 端子

コネクタ : RCA ピンジャック  
出力インピーダンス: 200 Ω  
規定出力レベル : -10dBV (0.32Vrms)  
最大出力レベル : +6dBV (2.0Vrms)

##### ANALOG OUTPUTS (BALANCED) 端子

コネクタ : XLR-3-32 (1: GND、2: HOT、3: COLD)  
出力インピーダンス: 100 Ω  
規定出力レベル : +4dBu (1.23Vrms)  
最大出力レベル : +24dBu (12.28Vrms)

##### PHONES 端子

コネクタ : 6.3mm (1/4") ステレオ標準ジャック  
出力インピーダンス: 100 Ω  
最大出力レベル : 45mW + 45mW以上  
(THD+N 0.1%以下、32Ω 負荷)

#### デジタルオーディオ出力定格

##### DIGITAL OUTPUTS 端子 (COAXIAL)

コネクタ : RCA ピンジャック  
対応信号フォーマット: IEC60958-3 民生用規格準拠、  
IEC60958-4 業務用規格準拠  
出力インピーダンス : 75 Ω  
出力レベル : 0.5Vp-p

##### DIGITAL OUTPUTS 端子 (XLR)

コネクタ : XLR-3-32 (1: GND、2: HOT、3: COLD)  
対応信号フォーマット: IEC60958-3 民生用規格準拠、  
IEC60958-4 業務用規格準拠  
出力インピーダンス : 110 Ω

## Control inputs and outputs

### REMOTE connector (for RC-3F and RC-20)

Connector : 2.5mm TRS jack

### RS-232C CONNECTOR

Communication protocol : Complies with RS-232C protocol specification 1.00

Connector : 9-pin D-sub (female, inch standard)

### CONTROL I/O PARALLEL connector (for RC-SS20)

Connector : D-sub 25-pin (female, inch standard)

Maximum input voltage : +5.5 V

High level minimum input voltage : +3.75 V

Low level maximum input voltage : +1.25 V

Output format : open drain (withstand voltage 50 V, maximum 50 mA)

Low level maximum output voltage : 0.5 V

+5V power maximum supplied current : 100 mA

## Audio performance

### Frequency response

20 Hz – 20 kHz:  $\pm 0.5$  dB

### Distortion

0.005% or less (JEITA\*)

### S/N ratio

95 dB or more (JEITA)

### Dynamic range

95 dB or more (JEITA)

### Channel crosstalk

95 dB or more (1 kHz, JEITA)

\* : JEITA CP-2150 standards.

## Backup memory

The following settings are backed up even when the power is turned off.

- Playback mode
- Playback time LCD mode
- Auto-ready function on/off
- Auto-cue function on/off
- Cue settings
- Repeat function on/off
- Various menu settings
  - Original key, Tray lock, Auto-cue level, Program
  - Fade in/out playback, DISC EOM time LCD
  - Power on play, Mono output
  - Resume, TRACK EOM time LCD
  - Incremental play, Pitch control steps, RS232C Baud rate
  - Skip back, Remote control reception, Silent interval between tracks
  - Frame time LCD, Footswitch mode, Analog attenuation
  - Restore unit to factory defaults, Digital output format

## コントロール入出力定格

### REMOTE 端子 (TASCAM : RC-3F、RC-20用)

コネクター : 2.5mm TRS ジャック

### RS-232C 端子

通信仕様 : RS-232C プロトコル仕様 1.00 準拠

コネクター : D-sub 9ピン (メス型、インチ規格)

### CONTROL I/O PARALLEL 端子 (TASCAM : RC-SS20用)

コネクター : D-sub 25ピン (メス型、インチ規格)

最大入力電圧 : +5.5V

ハイレベル最小入力電圧 : +3.75V

ローレベル最大入力電圧 : +1.25V

出力形式 : オープンドレイン (耐圧20V、最大35mA、インピーダンス 10 $\Omega$ )

ローレベル最大出力電圧 : 0.5V

+5V電源 最大供給電流 : 100mA

## オーディオ性能

### 周波数特性

20Hz-20kHz :  $\pm 0.5$  dB (JEITA\*)

### 歪率

0.005%以下 (JEITA\*)

### S/N比

95dB以上 (JEITA\*)

### ダイナミックレンジ

95dB以上 (JEITA\*)

### チャンネル間クロストーク

95dB (1kHz、JEITA\*)

\* : JEITA CP-2150基準

## バックアップメモリー

本機は、電源をオフにしても、以下の設定をバックアップします。

- 再生モード設定
- 再生時間表示モード設定
- オートレディ機能のオン/オフ設定
- オートキュー機能のオン/オフ設定
- キュー設定
- リピート機能のオン/オフ設定
- 各メニュー設定
  - キーオリジナル機能設定・トレイロック機能設定
  - オートキューレベル設定・プログラム設定
  - フェードイン/アウト再生設定・DISC EOM タイム表示設定
  - パワーオンプレー機能設定・モノラル出力設定
  - レジューム機能設定・TRACK EOM タイム表示設定
  - インクリメンタルプレー設定・ピッチステップ設定
  - RS232C ボーレート設定・スキップバック再生設定
  - リモコン受信設定・インターバルタイム設定
  - フレーム時間表示設定・フットスイッチモード設定
  - アッテネーション設定・ファクトリープリセット値
  - デジタル出力フォーマット設定

**General****Power**

AC 100-240 V, 50-60 Hz

**Power consumption**

12.5 W

**Dimensions**

483 x 94 x 306 mm (W x H x D)

**Weight**

4.9 kg

**Operating temperature range**

5-35 °C

**Installation angle**

15° or less

**一般****電源**

AC100-240V、50-60Hz

**消費電力**

12.5W

**外形寸法**

483 x 94 x 306mm (幅 x 高さ x 奥行き)

**質量**

4.9kg

**動作温度**

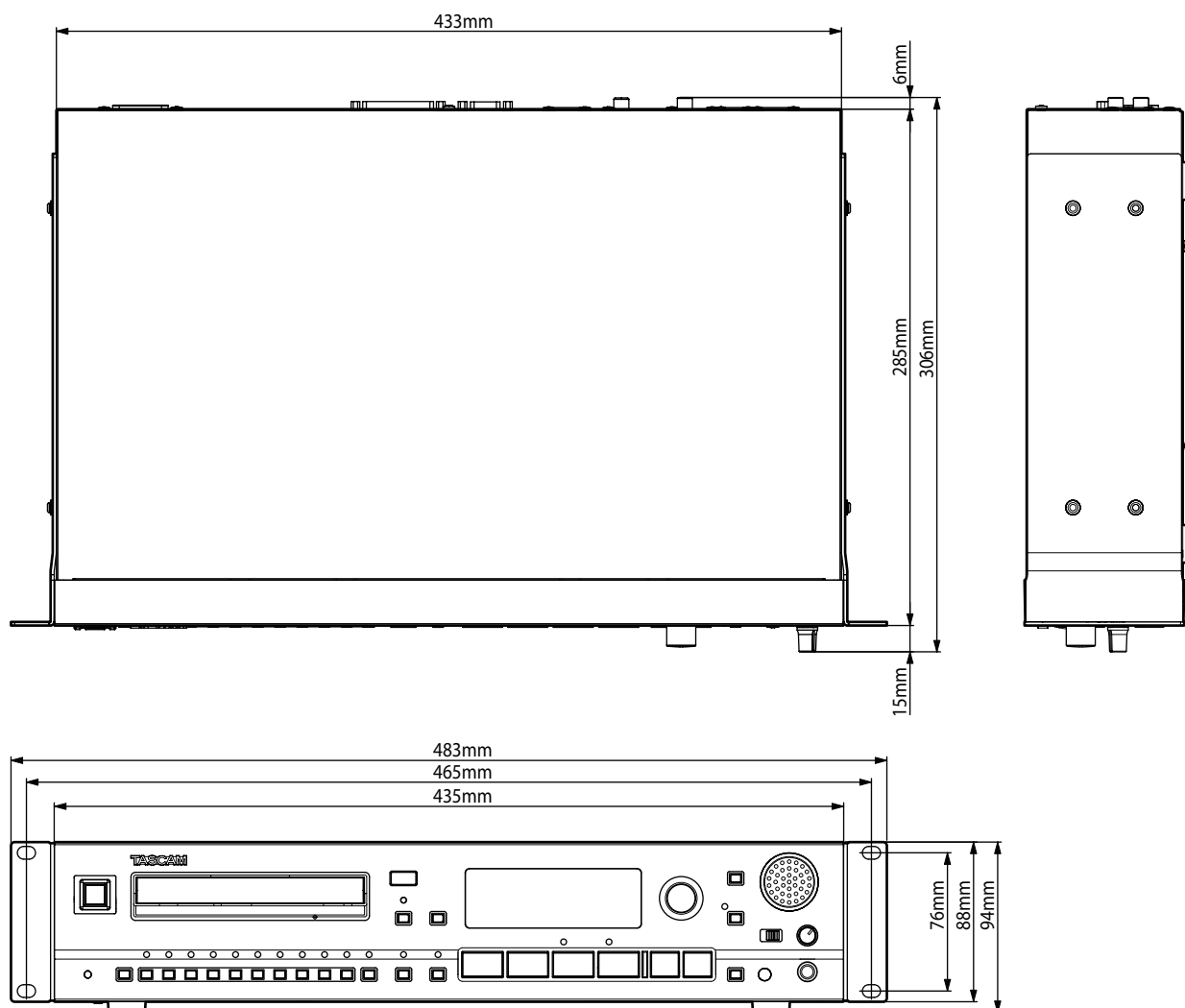
5~35°C

**設置時傾斜**

15度以内

### 3. Dimensional drawings

寸法図



# 4. Test Mode and Special Operations

## テストモードと特殊操作

### 1. How to enter test mode

With "no disc" shown on the LCD, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **PLAY** keys. The unit enters the test mode and the LCD shows "01 VERSION".

Rotate the **TRACK SKIP/DATA** knob to select the item. The following items are available.

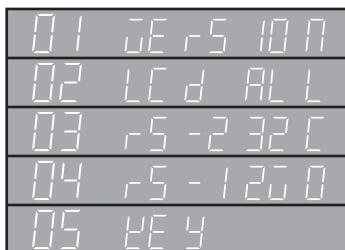
01: F/W version

02: All LCD characters/all LEDs lit

03: RS-232C brief check 1

04: RS-232C brief check 2

05: KEY/PARALLEL/REMOTE check



LCD

01: F/W version 表示

02: LCD 全表示 / LED 全点灯

03: RS-232C 簡易チェック 1

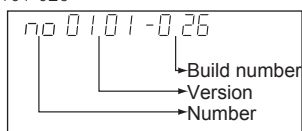
04: RS-232C 簡易チェック 2

05: KEY / PARALLEL / REMOTE チェック

#### 1) [01 : F/W version]

While the LCD shows "01 VERSION", pressing the **TRACK SKIP/DATA** knob shows the unit F/W version, such as below.

(Example) no 0101-026



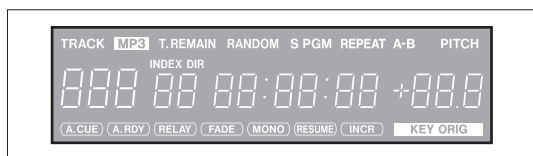
Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "01 VERSION".

Pressing the **STOP** key cancels the test mode.

#### 2) [02 : All LCD characters/all LEDs lit]

While the LCD shows "02 LCD ALL", pressing the **TRACK SKIP/DATA** knob displays all the LCD characters and all LED indicators (SHIFT, JOG, Number, CUE, FLASH, PLAY, PAUSE) light.

- LCD content



Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "02 LCD ALL".

Pressing the **STOP** key cancels the test mode.

#### 3) [03 : RS-232C brief check 1]

① Be sure to short-circuit the pin\_2(Rx) and pin\_3(Tx) on a 9 pin D-Sub connector, and then connect the connector to the RS-232C port in the back of the main unit.

② While the LCD shows "03 RS-232C", press the **TRACK SKIP/DATA** knob to enter the brief test mode for the unit's RS-232C port.

③ Press the **PLAY** key on the unit. If the LCD shows "OK", the RS-232C port works normally.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "03 RS-232C".

Pressing the **STOP** key cancels the test mode.

### 1. テストモードの起動方法

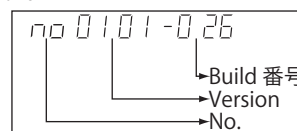
本体の電源を入れ、LCD表示が"no disc"の状態では**SHIFT**キーと**PLAY**キーを押しながら、**TRACK SKIP/DATA**ノブを押すと"01 VERSION"を表示し、テストモードに入ります。

**TRACK SKIP/DATA**ノブを回す毎にLCD表示が切り替わり、下記の項目の確認が出来ます。

#### 1) [01 : F/W version]

LCDに"01 VERSION"が表示されている時に**TRACK SKIP/DATA**ノブを押すと本体のF/Wのバージョンが表示されます。

[例] no 0101-026



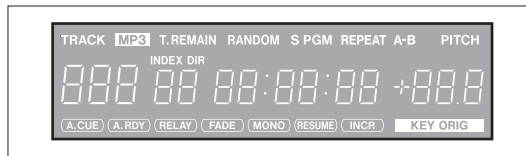
**TRACK SKIP/DATA**ノブを押すとLCD表示が"01 VERSION"に戻ります。

**STOP**キーを押すとテストモードを解除します。

#### 2) [02 : LCD 全表示 / LED 全点灯]

LCDに"02 LCD ALL"が表示されている時に**TRACK SKIP/DATA**ノブを押すと本体のLCD内容が全表示され、LEDの各インジケータ (SHIFT、JOG、数字、CUE、FLASH、PLAY、PAUSE) が全点灯します。

- LCD 内容



**TRACK SKIP/DATA**ノブを押すとLCD表示が"02 LCD ALL"に戻ります。

**STOP**キーを押すとテストモードを解除します。

#### 3) [03 : RS-232C 簡易チェック 1]

① 9 pin D-Subコネクタに[Pin\_2(Rx)]と[Pin\_3(Tx)]を短絡加工した特別なコネクタを用意し、本体背面のRS-232C端子に接続します。

② LCDに"03 RS-232C"が表示されている時に**TRACK SKIP/DATA**ノブを押すとRS-232C端子の簡易チェックモードになります。

③ 本体の**PLAY**キーを押してLCDに"OK"が表示されれば、RS-232C端子は正常です。

**TRACK SKIP/DATA**ノブを押すとLCD表示が"03 RS-232C"に戻ります。

**STOP**キーを押すとテストモードを解除します。

**4) [04 : RS-232C brief check 2]**

- ① Connect a tester to the pin\_5(GND) and pin\_9(12V) on the RS-232C port located in the back of the main unit.
- ② When "**04 RS-12V0**" is shown on the LCD, press the **TRACK SKIP/DATA** knob to change the display to "**RS-12V0 ON**".
- ③ "**+12V(±0.5%)**" will appear on the tester display if the RS-232C port works correctly.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "**04 RS-12V0**".

Pressing the **STOP** key cancels the test mode.

**5) [05 : KEY/PARALLEL/REMOTE check]**

Connect the PARALLEL port checking tool and the **RC-3F, RC-20, RC-SS20** to the PARALLEL port and the REMOTE port, respectively.

While the LCD shows "**05 KEY**", pressing the **TRACK SKIP/DATA** knob enters the check mode for the keys, PARALLEL port and REMOTE port.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "**05 KEY**".

The following tables show what is LCDed on the LCD when you press each key.

■ Unit Key assignment / LCD display

本体キーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
[CLEAR]	KEY CLEAR 000
[1]	KEY 1 000
[2]	KEY 2 000
[3]	KEY 3 000
[4]	KEY 4 000
[5]	KEY 5 000
[6]	KEY 6 000
[7]	KEY 7 000
[8]	KEY 8 000
[9]	KEY 9 000
[10/0]	KEY 0 000
[+10]	KEY P10 000
[CUE]	KEY CUE 000
[FLASH]	KEY FLASH 000
[OPEN/CLOSE]	KEY OPEN 000
[SHIFT]	KEY SHIF 000
[DISPLAY]	KEY DISP 000
STOP [■]	KEY STOP 000
CALL	KEY CALL 000
PLAY [▶]	KEY PLAY 000
PAUSE [■]	KEY PAUSE 000
SEARCH [◀◀]	KEY S-R -R 000
SEARCH [▶▶]	KEY S-R -F 000
[TRACK SKIP / DATA]	000-255
[MENU]	KEY MENU 000
[JOG]	KEY JOG 000
[PLAY MODE]	KEY P-MODE 000

**4) [04 : RS-232C簡易チェック 2]**

- ① 本体背面のRS-232C端子の[Pin\_5(GND)]と[Pin\_9(12V)]にテスターを接続します。
- ② LCDに"**04 RS-12V0**"が表示されている時に**TRACK SKIP/DATA**ノブを押し、LCD表示を"**RS-12V0 ON**"にしてください。
- ③ この時、テスターに"**+12V (±0.5%)**"が表示されれば、RS-232C端子は正常です。

**TRACK SKIP/DATA** ノブを押すとLCD表示が"**04 RS-12V0**"に戻ります。

**STOP**キーを押すとテストモードを解除します。

**5) [05 : KEY / PARALLEL / REMOTE チェック]**

PALALLELチェック治具(8ページ [6] **パラレルI/Oの仕様**)を参照)及び**RC-3F, RC-20, RC-SS20**を接続して、LCDに"**05 KEY**"が表示されている時に**TRACK SKIP/DATA**ノブを押すと本体のKEY/PARALLEL/REMOTEのチェックモードになります。

**TRACK SKIP/DATA** ノブを押すとLCD表示が"**05 KEY**"に戻ります。

各KEY、PARALLEL、REMOTEにおける表示文字は以下の通り

■ REMOTE [RC-3F] Key assignment / LCD display

リモート[RC-3F]のキーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
RC-3F [FOOT SW LEFT]	FOOT L 000
RC-3F [FOOT SW CENTER]	FOOT C 000
RC-3F [FOOT SW RIGHT]	FOOT R 000

■ REMOTE [RC-20] Key assignment / LCD display

リモート[RC-20]のキーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
RC-20 [1]	R-C 01 000
↓	↓
RC-20 [20]	R-C 20 000
RC-20 [STOP/LOAD]	R-C STOP 000

■ Flash start key and RC-SS20 Key assignment / LCD display

フラッシュスタートキーとRC-SS20の割り当て / LCD表示

Key assignment キーの割り当て		LCD display LCD表示
Flash start key	RC-SS20	
[FLASH 1]	[1]	PIN P1 000
↓	↓	
[FLASH 20]	[20]	PIN P20 000
[STOP / LOAD]	[LOAD / STOP]	PIN FLASH 000

## 2. Parallel I/O Specifications

### 1) Brief descriptions

These specifications describe the Control I/O Parallel port on the CD-6010.

This parallel port is D-sub 25 pin connector and deals with such tasks as playback and flash start by shorting to GND in response to switching actions and others.

This port is also capable of providing DC 5V (100mA at max.) and lighting LEDs using Tally signals.

As a Remote connector, this port has two operation modes:

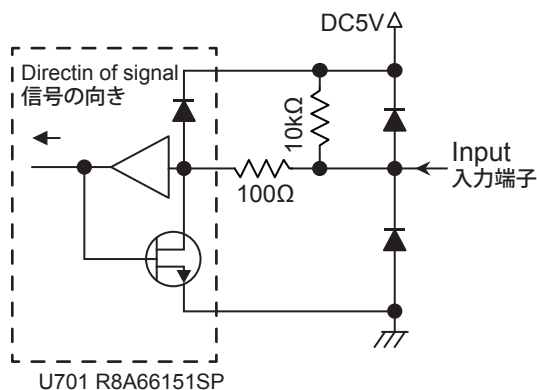
Normal mode in which the transport keys can normally be used as such; and Flash Start mode in which the flash start can be controlled over 20 tracks.

### 2) Connector's electrical specifications

Connector : D-sub 25 pin Female  
 Locking screw : UNC inch screw  
 Power : DC 5V recommended  
 (capable of being powered with DC 5V,  
 100mA from the main unit)

#### 2-1. Input terminal

Pull UP (5V, 10kOhms) Low-Active  
 $V_{IH}=3.75$  or more  $V_{IL}=1.25$  or less



Circuit ① [Input] / 回路図 ① [入力]

#### 2-2. Output terminal

The withstand voltage is 20V for the 35mA.  
 Output type : Open collector, low-active  
 Collector-emitter saturation voltage :  $V_{CE0} = 0.4V$  or lower  
 Collector-emitter yield voltage :  $V_{CE0} = 50V$   
 Maximum collector current  $I_c = 50mA$

## 2. パラレルI/Oの仕様

### 1) 概要

本仕様はCD-6010のCONTROL I/O PARALLEL端子について、記述します。

PARALLEL端子はD-SUB 25pinになっており、スイッチなどでGNDにショートすることにより、CD-6010を再生・フラッシュスタートなどの操作をすることができます。

また、直流電源 DC5V(Max 100mA)を供給することができ、TALLY信号を使ってLEDを点灯することができます。

また、Remote端子として2つの動作モードを持ち、通常のトランスポートキーとして使用できるNormal mode、20トラックのフラッシュスタートを制御するFlash Start modeを有しています。

### 2) コネクタ・電氣的仕様

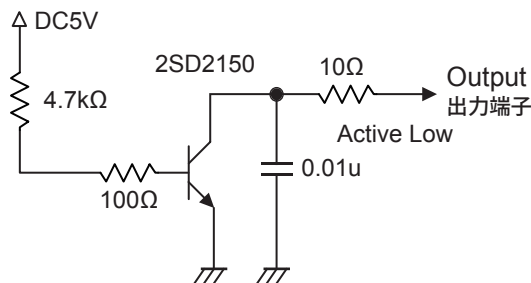
コネクタ : D-Sub 25pin Female  
 ロックネジ : UNC インチネジ  
 電源 : DC5V推奨 (本体からDC5V/100mA供給可能)

#### 2-1. 入力端子

Pull Up (5V, 10kΩ) Active Low  
 $V_{IH}=3.75V$ 以上 /  $V_{IL}=1.25$ 以下

#### 2-2. 出力端子

耐圧は [35mA Type : 20V] となります。  
 出力形式 : Open Collector Active Low  
 コレクタ エミッタ飽和電圧 :  $V_{CE0}=0.4V$ 以下  
 コレクタ エミッタ降伏電圧 :  $V_{CE0}=50V$   
 最大コレクタ電流  $I_c=50mA$



Circuit ② [Output] / 回路図 ② [出力]

## 3) Pin Assignment

Pin No.	Function		IN/OUT
	Normal (Pin 14 = H or Open)	Flash Start (Pin 14 = L)	
1	GND	GND	
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX / DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [ ▶▶ ]	FLASH 4	In
6	TRACK SKIP REV [ ◀◀ ]	FLASH 5	In
7	INDEX / DIR SEARCH REV	STOP / LOAD	In
8	FADER START / STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT *	REMOTE SELECT *	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [ ▶▶ ]	FLASH 8	In
18	SEARCH REV [ ◀◀ ]	FLASH 9	In
19	Reserved)	FLASH 10	In
20	Reserved)	FLASH PAGE **	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved, fixed high)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved, fixed low)	Out
25	+5V ***	+5V ***	

In : external command reception (operates active low, when ground 30 ms or longer)

Out : transport status display signal by open drain (20V maximum voltage, 35mA maximum current, 10Ω impedance)

\* : When pin 14 (REMOTE SELECT) is high or open, the functions in the left column are active and ordinary parallel control can be used. When set to low, the functions in the right column are active and they can be used as flash start keys.

\*\* : When pin 14 (REMOTE SELECT) is low, the high/low status of pin 20 (FLASH PAGE) determines the track assignments as shown below.

#14	#20	Flash start tracks
Low	High	1-10
Low	Low	11-20

\*\*\* : 100mA maximum supplied current

## 3) ピンアサイン

ピン 番号	機能		IN/OUT
	ノーマル (Pin 14 = H or Open)	フラッシュスタート (Pin 14 = L)	
1	GND	GND	
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX / DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [ ▶▶ ]	FLASH 4	In
6	TRACK SKIP REV [ ◀◀ ]	FLASH 5	In
7	INDEX / DIR SEARCH REV	STOP / LOAD	In
8	FADER START / STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT *	REMOTE SELECT *	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [ ▶▶ ]	FLASH 8	In
18	SEARCH REV [ ◀◀ ]	FLASH 9	In
19	Reserved)	FLASH 10	In
20	Reserved)	FLASH PAGE **	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved / ハイ固定)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved / ロー固定)	Out
25	+5V ***	+5V ***	

In : 外部コマンド受信 (アクティブロー、グラウンド 30msec 以上で動作。)

Out : オープンドレインによるトランスポートステータス表示用信号 (耐圧 20V、最大電流 35mA、インピーダンス 10Ω)

\* : ピン14 (REMOTE SELECT)

ピン14がハイもしくはオープンするとき、上記表の左列の機能が有効になり、通常の平行コントローラーとして使用することができます。

ローのとき、上記表の右側列の機能が有効になり、フラッシュスタートキーとして使用することができます。

\*\* : ピン20 (FLASH PAGE)

ローのとき、上記表の右側列の機能が有効になり、フラッシュスタートキーとして使用することができます。

ピン14 (REMOTE SELECT) がローのとき、ピン20のハイ/ロー状態によって、割り当てトラックが以下のようになります。

#14	#20	フラッシュスタートトラック
ロー	ハイ	1 ~ 10
ロー	ロー	11 ~ 20

\*\*\* : 最大供給電流 100mA

### 3. Firmware update

#### 1) Creating a CD for firmware update

- ① Prepare a blank CD-R disc, as well as a computer that can burn a data CD.
- ② Write the file for firmware update to a CD-R disc.

#### NOTE

The file must be written in ISO9660 Level 1 format (MSDOS compatible, disc-at-once).

#### 2) Firmware update procedure

- ① With **"no disc"** loaded, press the **OPEN/CLOSE** key while holding down the **SEARCH(◀◀)** and **SEARCH(▶▶)** keys. The disc tray will open.
- ② After the LCD shows **"update in"**, insert the CD-R disc for firmware update.

UP DR TE IN

Press the **OPEN/CLOSE** key to close the disc tray.

- ③ In a few seconds, the current version **"old ---"** will be shown on the LCD.

oLd 0101-026 0

- ④ Each time you press the **TRACK SKIP/DATA** knob, the display switches between **"new ---"** and **"- sure -"**. **"- sure -"** blinks when shown.

nEW 0102 028 0

-SUrE- 0

- ⑤ With **"- sure -"** shown on the LCD, turn the **TRACK SKIP/DATA** knob to start firmware update.

During the update process, **"update"** is shown.

UP DR TE 30

\*: The value shown to the right as a percentage is how much of the update process has been completed.

- ⑥ When the update process is completed, **"complete ---"** will be shown on the LCD and the CD will be automatically ejected.

COmPLETE 100

\*: The value shown to the right as a percentage is how much of the update process has been completed.

#### NOTE

If the power is off during the update process, it may cause critical damage to the internal ROM, which requires changing the ROM chip.

After updating the firmware, initialize the preset menu if required (see page 11 **"4. Execution of the factory preset"** below).

- ⑦ Remove the CD-R for firmware update from the disc tray, and then press the **OPEN/CLOSE** key to close the disc tray. Turn the main unit's power off, and then, in at least 3 seconds, turn it on again.

Follow the instructions in **"5. Checking the firmware version"** on page 11

### 3. ファームウェアアップデート

#### 1) アップデート用CD作成

- ① 何も書き込まれていないCD-Rメディアと、データCDを作成できる環境をPCに用意します。
- ② バージョンアップ用ファイルをCD-Rメディアに書き込みます。

#### メモ

CD-Rへの書き込みフォーマットはISO9660 Level 1(MS-DOS互換 Disc at once)

#### 2) ファームウェアアップデート手順

- ① 本体の電源を入れ**"no disc"**の状態ですSEARCH (◀◀)キーとSEARCH (▶▶)キーを押しながらOPEN/CLOSEキーを押すと、ディスクトレイが開きます。
- ② LCDに**"update in"**と表示されたら、アップデート用のCD-Rを挿入します。

UP DR TE IN

**OPEN/CLOSE**キーを押し、ディスクトレイを閉じます。

- ③ しばらく待るとLCDに現行バージョン**"old ---"**を表示します。

oLd 0101-026 0

- ④ **TRACK SKIP/DATA** ノブを押す毎に**"new ---"**→**"- sure -"**と表示し、**"- sure -"**表示が点滅します。

nEW 0102 028 0

-SUrE- 0

- ⑤ **"- sure -"**表示のときに**TRACK SKIP/DATA** ノブを押すとアップデートを開始します。アップデート中は、**"update ---"**を表示します。

UP DR TE 30

\*: 右端の数値は、アップデートの達成度を表示(単位は"%")。

**"old ---"** / **"new ---"** / **"- sure -"**の表示中に**OPEN/CLOSE**キーを押すとLCD表示が**"update in"**に戻ります。

- ⑥ アップデートが完了するとLCDに**"complete ---"**と表示し、CDが自動的に排出されます。

COmPLETE 100

\*: 右端の数値は、アップデートの達成度を表示(単位は"%")。

#### 注意

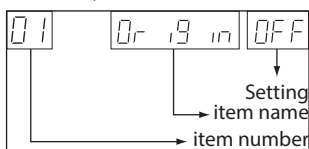
アップデート中に電源が切れると本体のROMが破壊され、交換が必要になる場合があります。

アップデートを行った場合は、必要に応じて11 ページ「**4. ファクトリープリセットの実行**」を行ってください。

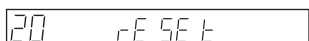
- ⑦ ディスクトレイからアップデート用のCD-Rを取り出し、**OPEN/CLOSE**キーを押してディスクトレイを閉じます。本体の電源を切り、3秒以上経過してから本体の電源を入れて、11 ページの [5. **ファームウェアバージョン確認**] を実行してください。

#### 4. Execution of the factory preset

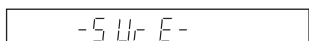
- ① Turn the main unit's power on, and then with "no disc" shown on the LCD, press the main unit's **MENU** key.



- ② Turn the **TRACK SKIP/DATA** knob, Select the "20 reset" menu item.



- ③ Press the **TRACK SKIP/DATA** knob. "**-sure-**" blinks on the LCD.



- ④ To restore the unit to its factory default settings, press the **TRACK SKIP/DATA** knob. When the resetting process is completed, the unit will show the menu on the display.

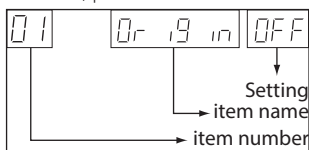
- ⑤ Press the **MENU** key to show "no disc" on the display again.

##### NOTE

When the preset menu is reset, all the programs (up to 100 programs for CD-DA) memorized on the internal EEPROM are erased.

#### 5. Checking the firmware version

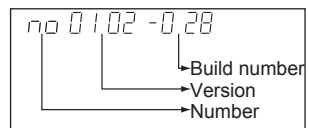
- ① Turn the main unit's power on, and then with "no disc" shown on the LCD, press the main unit's **MENU** key.



- ② Turn the **TRACK SKIP/DATA** knob, Select the "21 info" menu item.



- ③ Pressing the **TRACK SKIP/DATA** knob shows the unit F/W version, such as below.



- ④ Press the **MENU** key to show "no disc" on the display again.

#### 6. Checking/resetting the total mechanism operation time

##### 1) Checking the total mechanism operation time

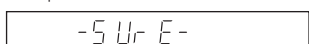
With "no disc" loaded, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **CALL** keys.

The LCD shows the total mechanism operation time while the **SHIFT** and **CALL** keys are being pressed.



##### 2) Resetting the total mechanism operation time

- ① While the LCD shows the total mechanism operation time (see 1) above), press the **TRACK SKIP/DATA** knob.



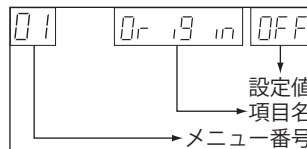
- ② If you press the **TRACK SKIP/DATA** knob when "**-sure-**" is displayed, the total mechanism operation time will be reset.

##### NOTE

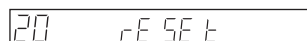
Note that the total mechanism operation time should be reset only when you change the drive.

#### 4. ファクトリープリセットの実行

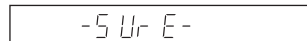
- ① 本体の電源を入れて"no disc"の状態、本体の**MENU**キーを押します。



- ② **TRACK SKIP/DATA** ノブを回し、メニュー番号"20 reset"を選択します。



- ③ **TRACK SKIP/DATA** ノブを押すと、LCDに"**-sure-**"が点滅します。



- ④ **TRACK SKIP/DATA** ノブを押すと、工場出荷時の設定に戻ります。リセットが完了すると、①の状態に戻ります。

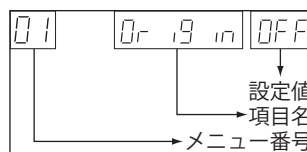
- ⑤ もう一度、**MENU**キーを押すと"no disc"の状態に戻ります。

##### 注意

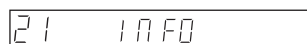
初期化を行うと本体のEEPROMに記憶されているプログラム(CD-DAのみ最大100件分)も消去されます。

#### 5. ファームウェアバージョン確認

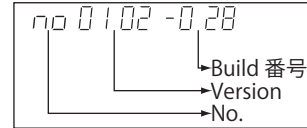
- ① 本体の電源を入れて"no disc"の状態、本体の**MENU**キーを押します。



- ② **TRACK SKIP/DATA** ノブを回し、メニュー番号"21 info"を選択します。



- ③ **TRACK SKIP/DATA** ノブを押すと本体のF/WのバージョンがLCDに表示されます。



- ④ もう一度、**MENU**キーを押すと"no disc"の状態に戻ります。

#### 6. メカ積算時間表示とクリアー方法

##### 1) メカ積算時間表示方法

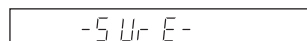
本体の電源を入れて"no disc"の状態、**SHIFT**キーと**CALL**キーを押しながら**TRACK SKIP/DATA**ノブを押します。

**SHIFT**キー+**CALL**キーを押している間は、積算時間を表示します。



##### 2) メカ積算時間クリアー方法

- ① 上記1)でメカ積算時間の表示状態で**TRACK SKIP/DATA**ノブを押すと、LCDに"**-sure-**"を表示します。



- ② "**-sure-**"の表示状態で**TRACK SKIP/DATA**ノブを押すと、メカ積算時間がクリアーされます。

##### メモ

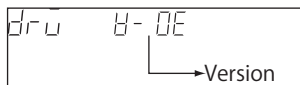
メカ積算時間のクリアーはドライブ交換をした時のみ、実行してください。

## 7. Checking the Drive firmware version

- ① With **"no disc"** loaded, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **9** keys.

The LCD shows the drive version.

(Example) drv W-0E



- ② Press the **TRACK SKIP/DATA** knob to show **"no disc"** on the display again.

## 8. Drive firmware update

### 1) Creating a CD for firmware update

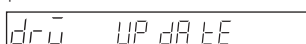
- ① Prepare a blank CD-R disc, as well as a computer that can burn a data CD.  
② Write the file for firmware update to a CD-R disc.

#### NOTE

The file must be written in ISO9660 Level 1 format (MSDOS compatible, disc-at-once).

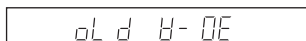
### 2) Firmware update procedure

- ① With **"no disc"** loaded, press the **OPEN/CLOSE** key while holding down the **STOP(■)** and **CALL** keys.  
The disc tray will open.  
② After the LCD shows **"drv update"**, insert the CD-R disc for firmware update.



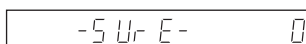
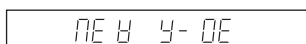
Press the **OPEN/CLOSE** key to close the disc tray.

- ③ In a few seconds, the current version **"old ---"** will be shown on the LCD.



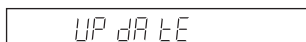
- ④ Each time you press the **TRACK SKIP/DATA** knob, the display switches between **"new ---"** and **"- sure -"**.

**"- sure -"** blinks when shown.



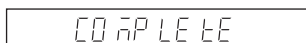
- ⑤ With **"- sure -"** shown on the LCD, turn the **TRACK SKIP/DATA** knob to start firmware update.

During the update process, **"update"** is shown.



If you press the **OPEN/CLOSE** key when **"old ---"**, **"new ---"** or **"- sure -"** is displayed, **"update in"** will be shown on the display again.

- ⑥ When the update process is completed, **"complete ---"** will be shown on the LCD and the CD will be automatically ejected.



#### NOTE

If the power is off during the update process, it may cause critical damage to the internal ROM, which requires changing the ROM chip.

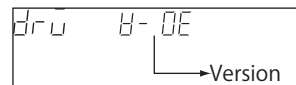
- ⑦ Remove the CD-R for firmware update from the disc tray, and then press the **OPEN/CLOSE** key to close the disc tray.  
Turn the main unit's power off, and then, in at least 3 seconds, turn it on again. Follow the instructions in **"7. Checking the Drive firmware version"** on this page.

## 7. ドライブファームウェアバージョン確認

- ① 本体の電源を入れて、**"no disc"**の状態では**SHIFT**キーと**9**キーを押しながら**TRACK SKIP/DATA**ノブを押します。

LCDにバージョンが表示されます。

[例] drv W-0E



- ② もう一度、**TRACK SKIP/DATA**ノブを押すと**"no disc"**の状態に戻ります。

## 8. ドライブファームウェアアップデート

### 1) アップデート用CD作成

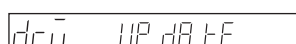
- ① 何も書き込まれていないCD-Rメディアと、データCDを作成できる環境をPCに用意します。  
② バージョンアップ用ファイルをCD-Rメディアに書き込みます。

#### メモ

CD-Rへの書き込みフォーマットはISO9660 Level 1(MS-DOS互換 Disc at once)

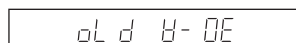
### 2) ファームウェアアップデート手順

- ① 本体の電源を入れ**"no disc"**の状態では**STOP(■)**キーと**CALL**キーを押しながら**OPEN/CLOSE**キーを押すと、ディスクトレイが開きます。  
② LCDに**"drv update"**と表示されたら、アップデート用のCD-Rを挿入します。

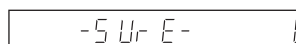
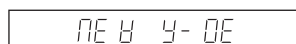


**OPEN/CLOSE**キーを押し、ディスクトレイを閉じます。

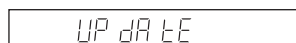
- ③ しばらく待つとLCDに現行バージョン**"old ---"**を表示します。



- ④ **TRACK SKIP/DATA**ノブを押す毎に**"new ---"**→**"- sure -"**と表示し、**"- sure -"**表示が点滅します。



- ⑤ **"- sure -"**表示のときに**TRACK SKIP/DATA**ノブを押すとアップデートを開始します。  
アップデート中は、**"update"**を表示します。



**"old ---"** / **"new ---"** / **"- sure -"**の表示中に**OPEN/CLOSE**キーを押すとLCD表示が**"update in"**に戻ります。

- ⑥ アップデートが完了するとLCDに**"complete"**と表示し、CD-Rが自動的に排出されます。



#### 注意

アップデート中に電源が切れるとドライブ交換が必要になる場合があります。

- ⑦ ディスクトレイからアップデート用のCD-Rを取り出し、**OPEN/CLOSE**キーを押してディスクトレイを閉じます。  
本体の電源を切り、3秒以上経過してから本体の電源を入れて、このページの**[7. ドライブファームウェアバージョン確認]**を実行してください。

## 5. How to change the balanced output level

### バランス出力レベルの変更方法

You can change the balanced output level of the CD-6010 by changing the positions of jumper wires. When the CD-6010 is shipped, jumper wires are set to R320, R340, R356 and R376 on circuit board E95451200A : PCB ASSY, MAIN CD-6010 G.

In this condition, the maximum output level is +24 dBu.

For example, if you wish to change the maximum output level to +15 dBu, change jumper wire settings as follows: R320 → R311, R340 → R330, R356 → R347 to R376 → R367.

CD-6010のBalance出力はジャンパー線の位置を移動することにより出力レベルを変更できます。

出荷時ジャンパー線はE95451200A : PCB ASSY, MAIN CD-6010 G 基板上のR320、R340、R356、R376に実装されており、Maxレベルは24dBuです。

例えばMaxレベルを15dBuへ変更する場合には、ジャンパー線をR320 → R311、R340 → R330、R356 → R347、R376 → R367へ移動します。

Ref Level	Max Level	R311 R330 R347 R367	R313 R331 R349 R369	R316 R336 R352 R372	R318 R338 R354 R374	R320 R340 R356 R376
+6dBu	15dBu	O	No mount	No mount	No mount	No mount
+4dBu	18dBu	No mount	O	No mount	No mount	No mount
+4dBu	20dBu	No mount	No mount	O	No mount	No mount
+4dBu	22dBu	No mount	No mount	No mount	O	No mount
+4dBu	24dBu	No mount	No mount	No mount	No mount	O

## 5. Messages Explained

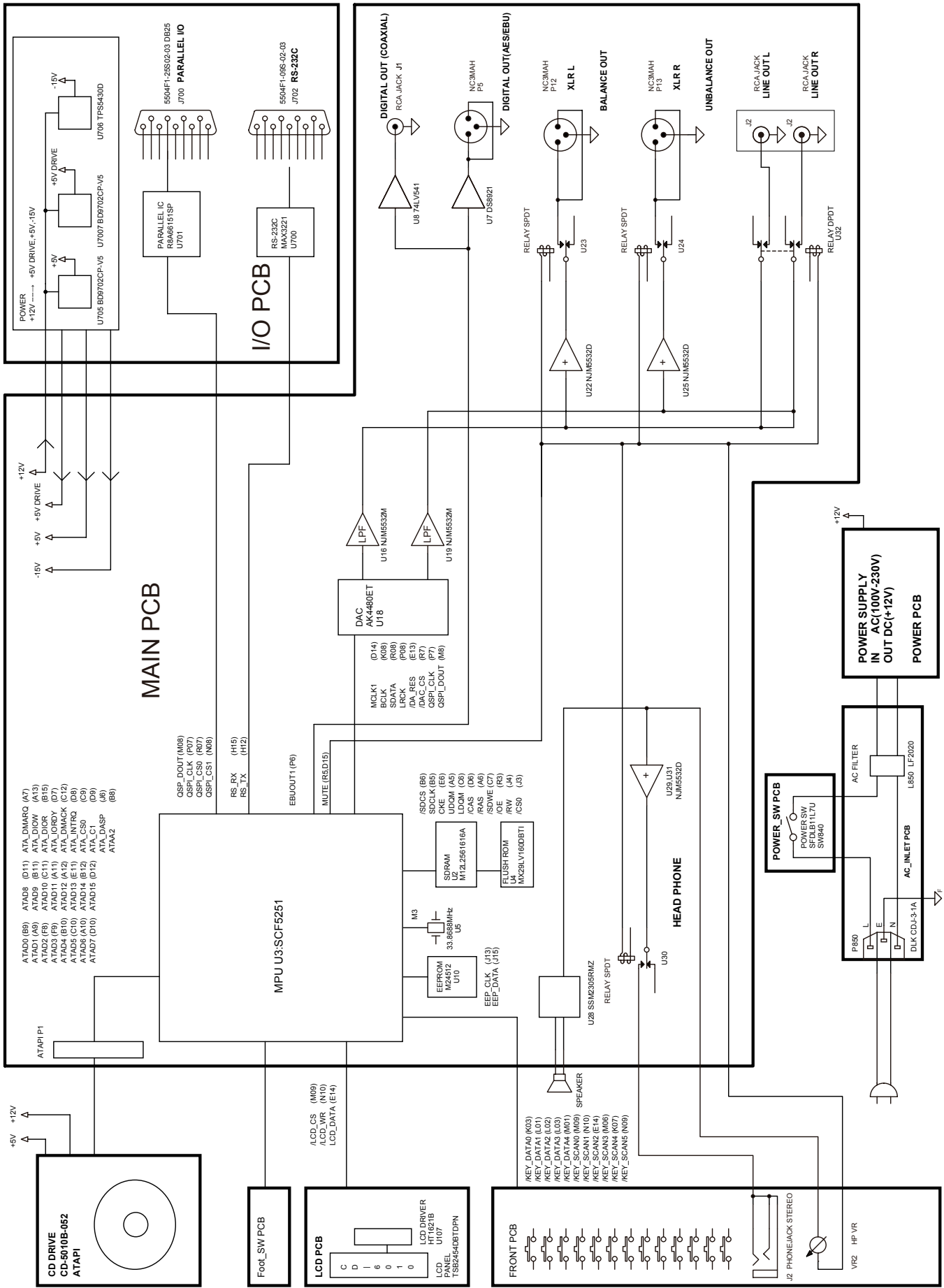
### メッセージ一覧

Messages メッセージ	Meaning メッセージ内容	Response 対処方法
Err01	TOC Read Error	Clean or change the disc. ディスクをクリーニングするか、交換してください。
Err09	Flash ROM Error	If one of these errors appears, turn the power off and back on. If you are unable to turn the power off, disconnect the power cord. これらのエラーが表示された場合は、電源を入れなおしてください。 電源を切ることができない場合は、電源コードを取り外してください。
Err10	SDRAM Error	
Err13	SYSTEM Error	

# 6. Block Diagram

## ブロックダイアグラム

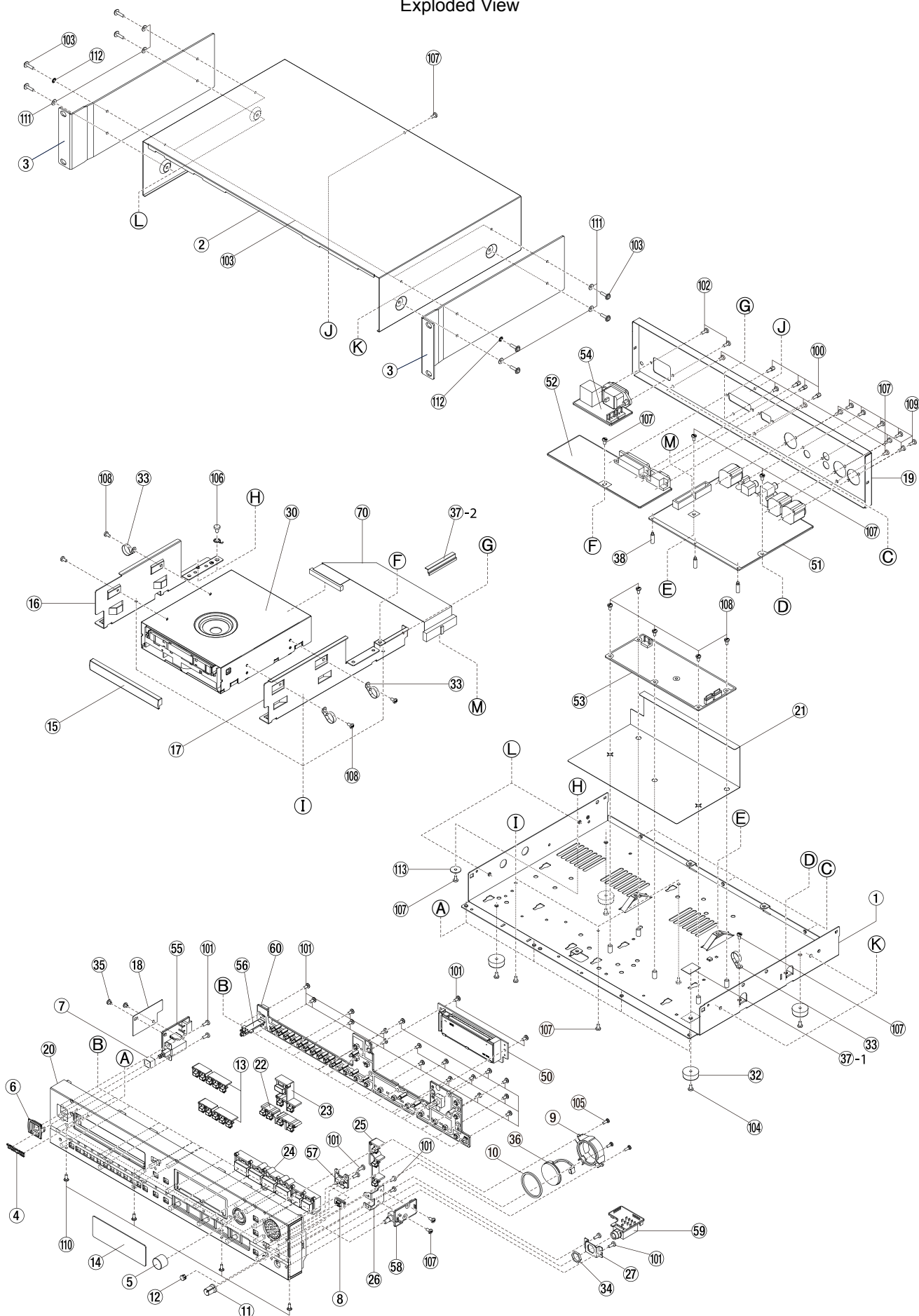
CD-6010 Block\_Fig



# 7. Exploded Views and Parts List

分解図とパーツリスト

Exploded View



**CAUTION** Part with numbers in parentheses ( ) cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
1	3M0057950B	CHASSIS,MAIN CD6010 G	1	
2	3M0058120C	BONNET RW800B G	1	
3	3M0073250A	RACK MOUNT ANGLE,CD6010 G	2	
4	3M0134900A	BADGE TASCAM SILVER G	1	
5	M01224320A	KNOB,D16 JOG BLACK G	1	
6	M01334910A	ESCUTCHEON,POWER CD6010 G	1	
7	M01335110A	BUTTON,POWER CD6010 BLK G	1	
8	M01891400A	KNOB,SLIDE WIDE G	1	
9	M03140500A	HOLDER,SP RCHS20PD G	1	
10	M03140600B	CUSHION,HLD-SP RCHS20PD G	1	
11	M03219000A	KNOB,VR US1K G	1	
12	M03260600A	LENS,REMOTE CD500 G	1	
13	M03260910A	BUTTON,TEN KEY CD6010 G	2	
14	M03261200D	WINOW,CD500 G	1	
15	M03372500B	ESC,TRAY KCPCFQ G	1	
16	M03411300A	BRKT,DRIVE(L) CD6010 G	1	
17	M03411400A	BRKT,DRIVE(R) CD6010 G	1	
18	M03411500A	PLATE,GUARD PWR CD6010 G	1	
19	M03411600B	REAR PANEL,CD6010 G	1	
20	M03411700A	FRONT PANEL,CD6010 G	1	
21	M03411800A	PLATE,GUARD SW CD6010 G	1	
22	M03411900A	BUTTON,TEN KEY CD6010 G	1	
23	M03412000A	BUTTON,EJECT CD6010 G	1	
24	M03412100A	BUTTON,STOP CD6010 G	1	
25	M03412200A	BUTTON,SEARCH CD6010 G	1	
26	M03412300B	BRKT,VOL CD6010 G	1	
27	M03412400A	BRKT,PHONE CD6010 G	1	
30	1C77237052	CD-5010B-052	1	
31	3M000870	CABL BAND,100MM DS-8432-G	4	
32	3M001950	FOOT,21MM G	4	
33	3M0102200A	WIRE CLAMP WL4-50T G	4	
34	3M0131000A	NUT, M12X2.3 G	1	
35	3M0195700A	SNAP RIVET(SR3-3.5) X-9G	2	
36	E01646700A	SPEAKER,HF32008F160A G	1	
37	M0306120	TAPE,ACETATE NO156A 15MMG	1	Refer to page 15 (37)-1 : 2cm / (37)-2 : 5cm)
38	M03425700A	S SUPPORT,MAM-12.7 G	3	
50	E95192620A	PCB ASSY,DISPLAY(J)CD500G	1	Refer to page 26 (GATHER PCB,J CDX05 G)
51	E95451200A	PCB ASSY,MAIN CD-6010 G	1	Refer to page 18 (GATHER PCB,MAIN CD-6010 G)
52	E95451300A	PCB ASSY,IO CD-6010 G	1	Refer to page 22 (GATHER PCB,IO CD-6010 G)
53	E95451400A	PCB ASSY,POWER G	1	Refer to page 20 (GATHER PCB,POWER G)
54	(E95452100A)	PCB ASSY,AC_INLET CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)

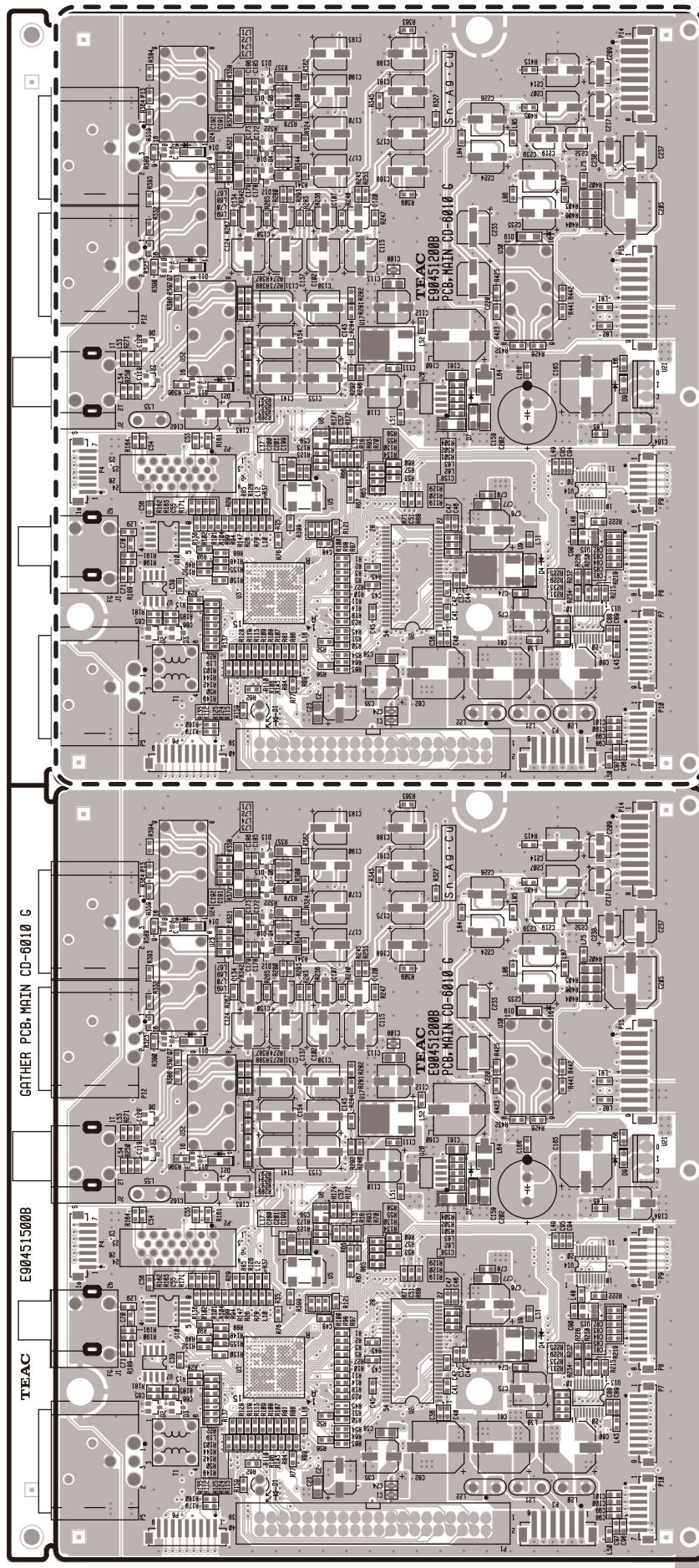
**CAUTION** Part with numbers in parentheses ( ) cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
55	(E95452200A)	PCB ASSY,AC_SW CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
56	(E95452300A)	PCB ASSY,REM CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
57	(E95452400A)	PCB ASSY,SLIDE CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
58	(E95452500A)	PCB ASSY,VR CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
59	(E95452600A)	PCB ASSY,HP_JACK CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
60	(E95452700A)	PCB ASSY,FRONT CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
70	E01825600B	HARN ASSY,ATA CD-6010 G	1	
71	E01825800A	HARN ASSY,LCD CD-6010 G	1	
72	E01825900A	HARN ASSY,KEY1 CD-6010 G	1	
73	E01826000A	HARN ASSY,KEY2 CD-6010 G	1	
74	E01826100A	HARN ASSY,KEY3 CD-6010 G	1	
75	E01826300B	HARN ASSY,REM CD-6010 G	1	
76	E01826500A	HARN ASSY,VR CD-6010 G	1	
100	3B0013000A	D-SUB SCREW 003-HEX G	4	
101	B00192708A	SCREW,BPP 3*8 FZB G	27	
102	B00192710A	SCREW,BPP 3*10 FZB G	2	
103	B00197612A	SCREW,PPSU 3*12 FZB G	8	
104	B00197806A	SCREW,PPSU 3*6 FZC G	4	
105	B00198908A	SCREW,BPP 2.6*8 FZC G	3	
106	B00199506A	SCREW,BPB 4*6 FZC G	1	
107	B00199706A	SCREW,BPB 3*6 FZB G	14	
108	B00207806A	SCREW,BPAA 3*6 FZC G	9	
109	B00208008A	SCREW,BPBR3*8 FZB G	8	
110	B00247000A	SCREW,DPS 3*6.9FZB G	4	
111	3M002020	FIBER WSHR,3X8X0.3T BLK	6	
112	M02788000A	T LK WSHR,3D G	2	
113	M02824300A	PLAIN WASHER,M3 D14 G	1	

# 8. PC Boards and Parts List

## 基板図とパーツリスト

GATHER PCB, MAIN CD-6010 G (Side A)

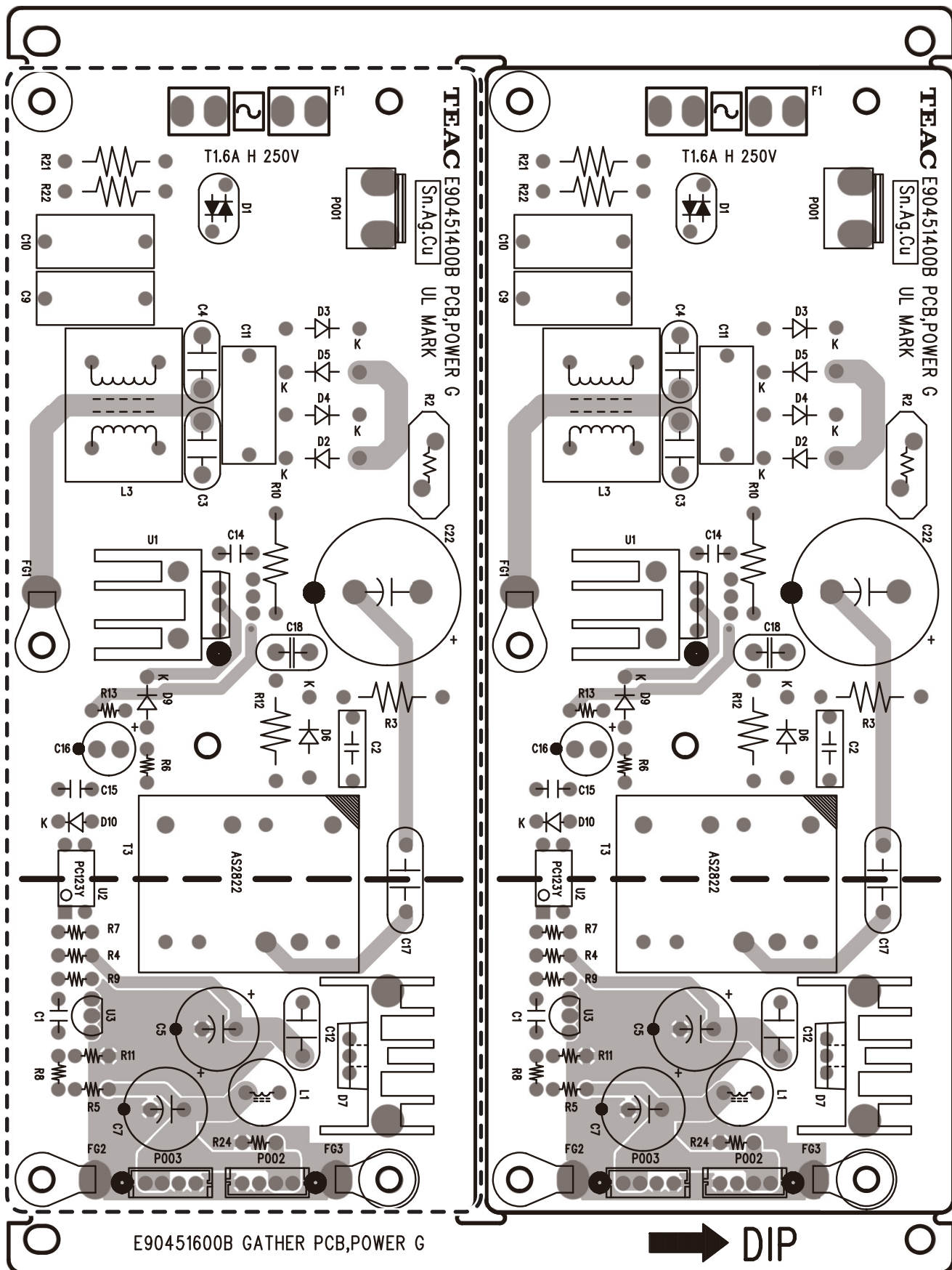


**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。



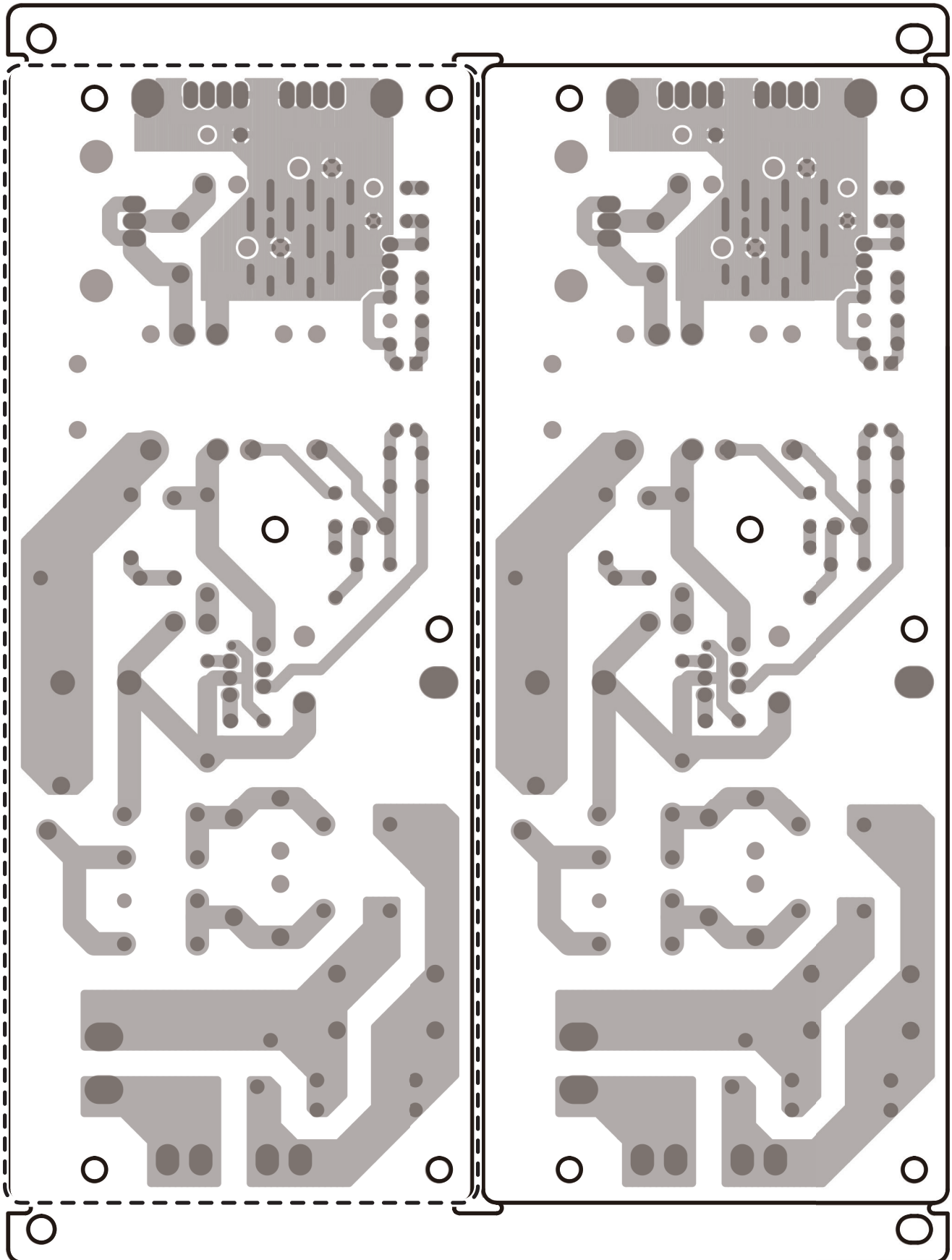
GATHER PCB, POWER G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

## GATHER PCB,POWER G (Side B)

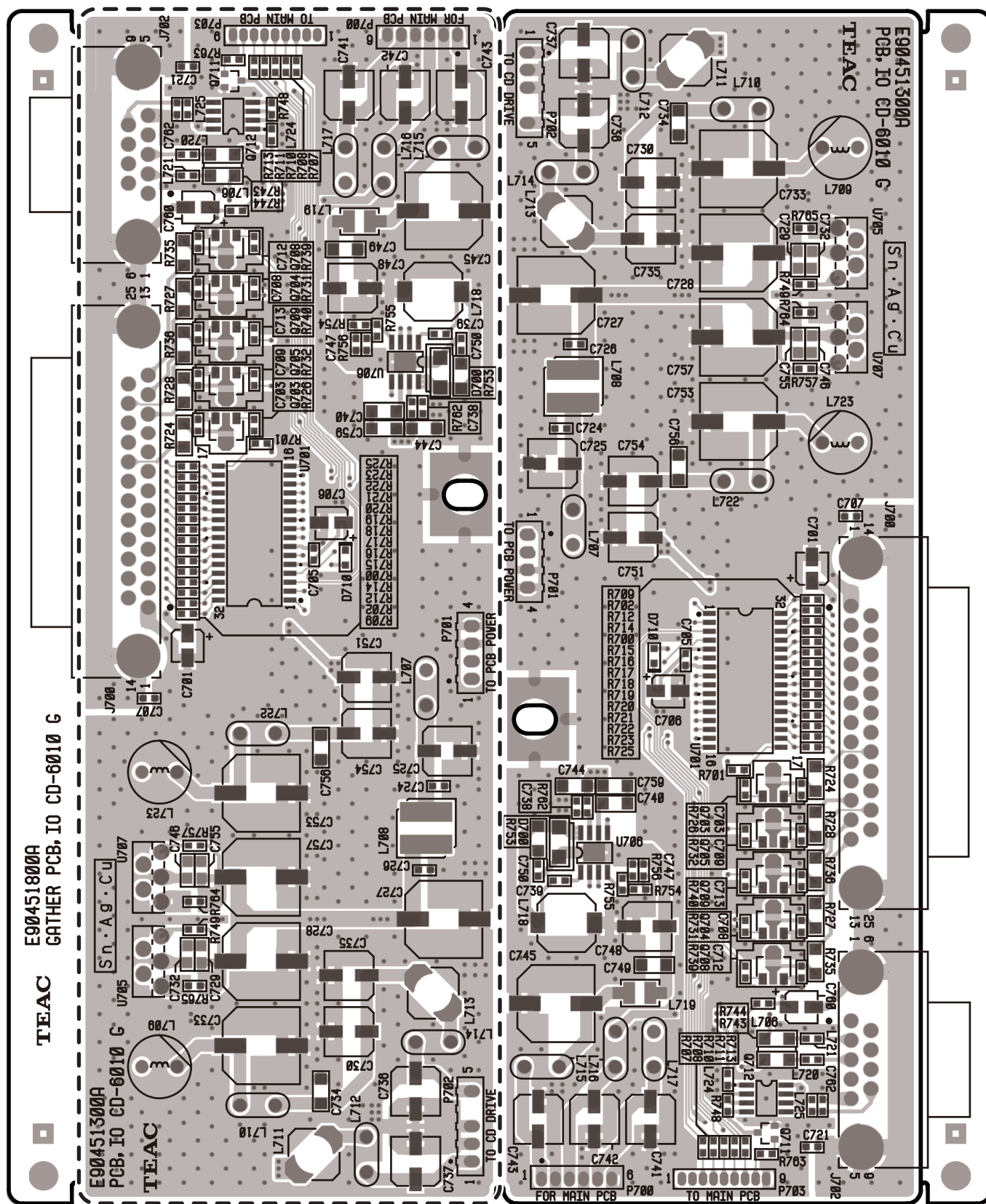


**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

- 21 -

**注意** 破線部分は、太字品番で発注する補修部品になります。

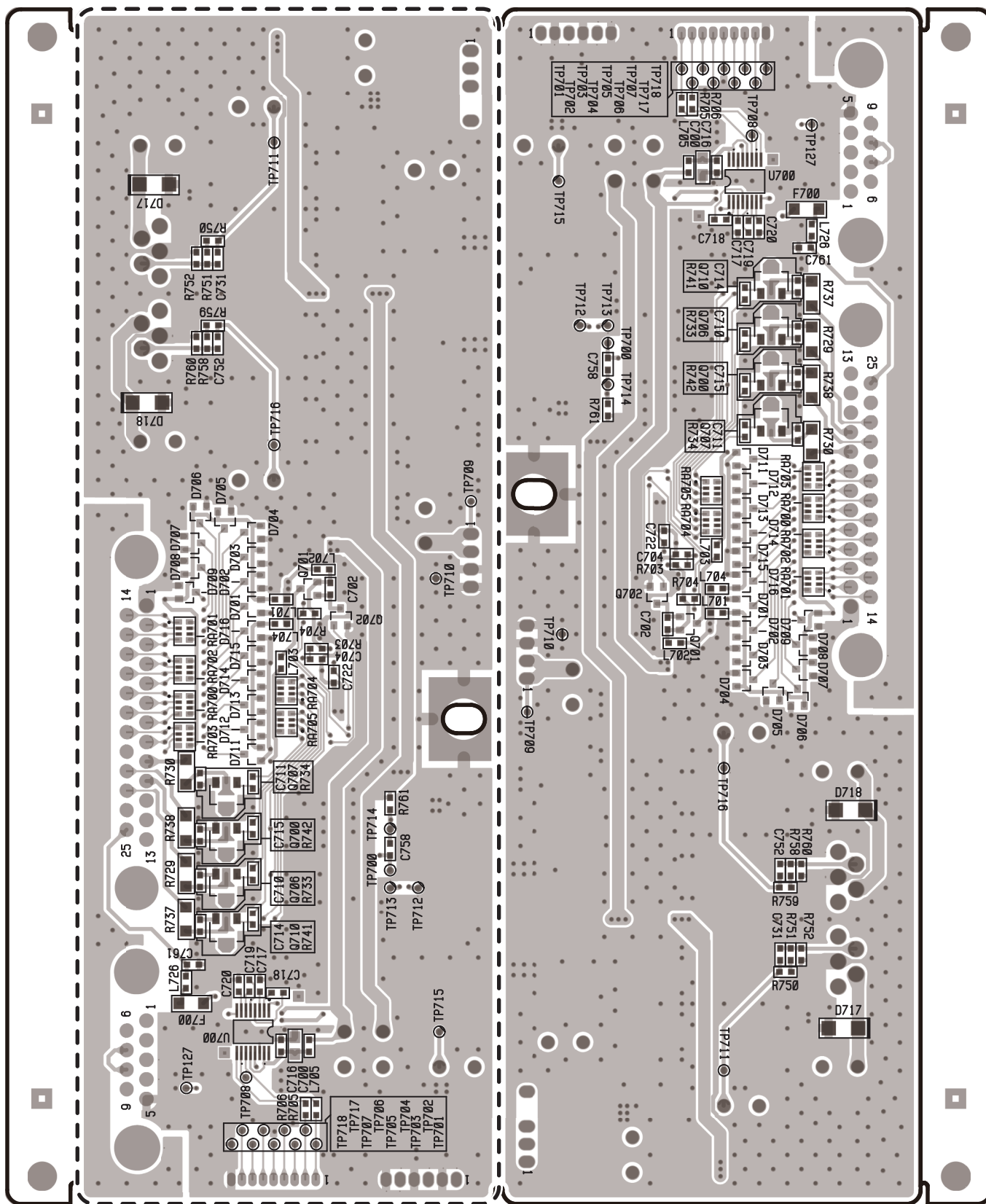
GATHER PCB, IO CD-6010 G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

GATHER PCB,IO CD-6010 G (Side B)

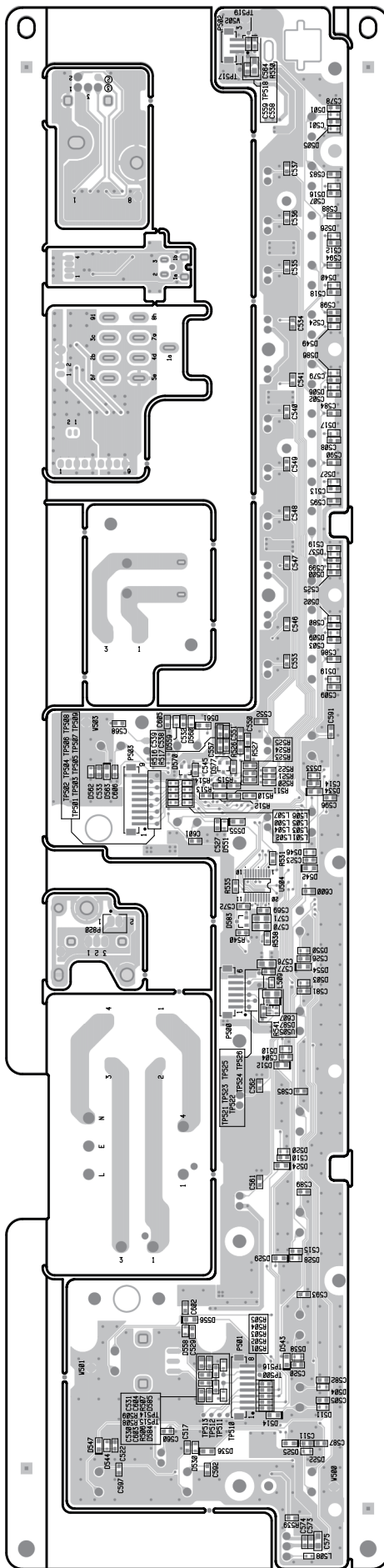


**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

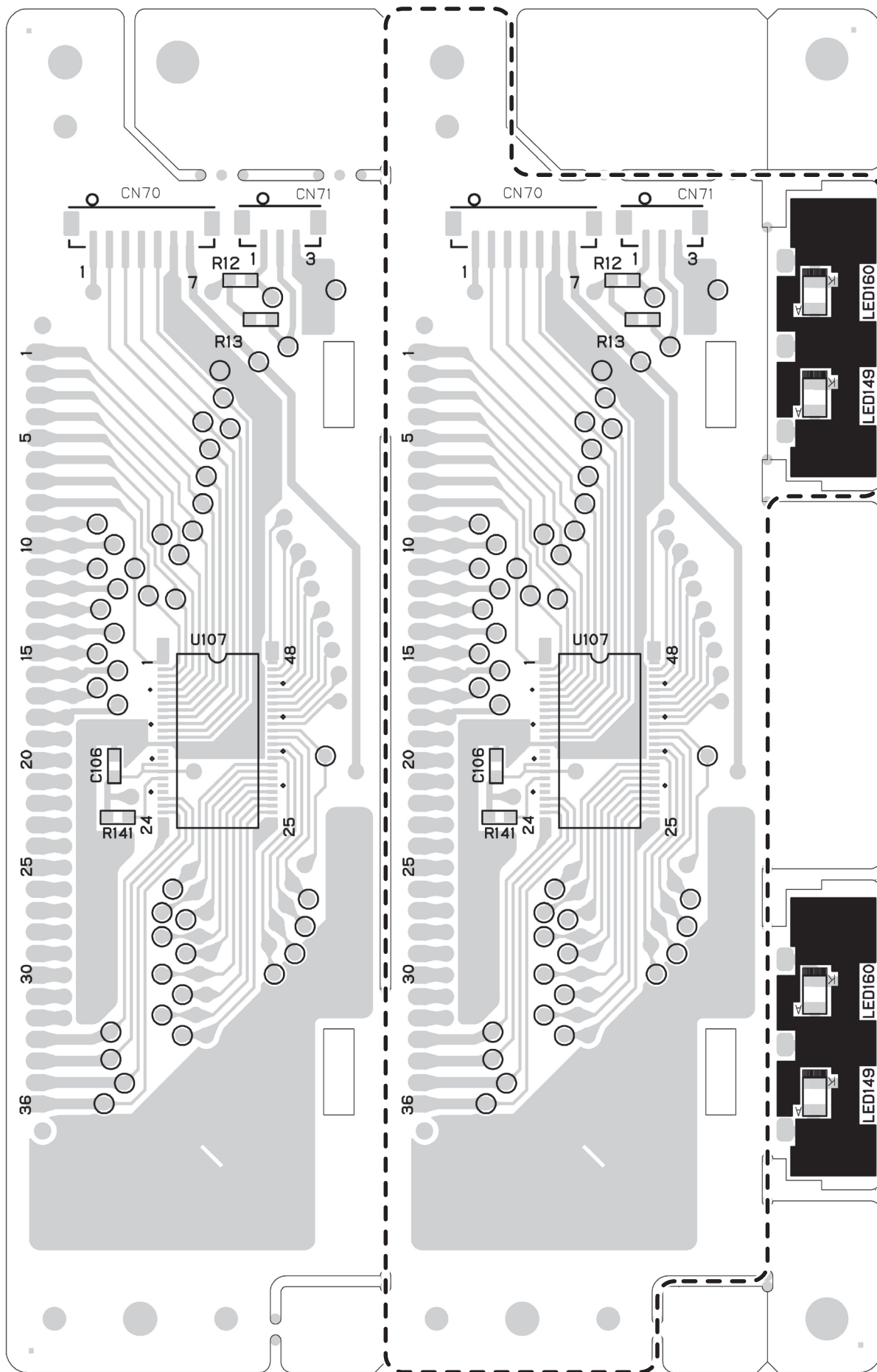
**注意** 破線部分は、太字品番で発注する補修部品になります。



GATHER PCB,FRONT CD-6010 G (Side B)



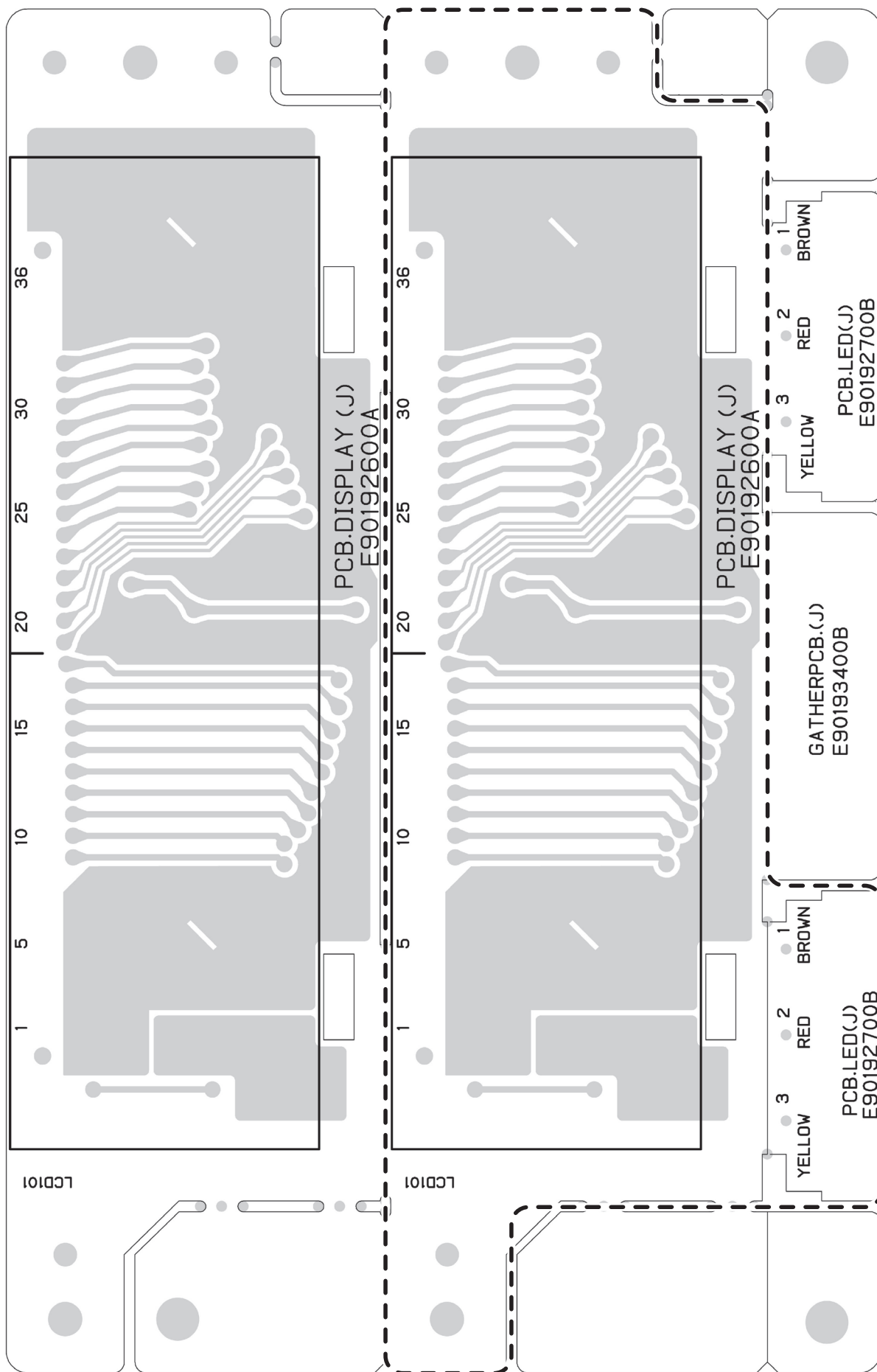
GATHER PCB,J CDX05 G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

GATHER PCB,J CDX05 G (Side B)



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**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB, MAIN CD-6010 G

#### メイン基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95451500A)	GATHER PCB,MAIN CD-6010 G	For China	L84 - L87	E0126164	BEAD COIL,BLM18PG471SN1D G	
	(E95451554A)	GA PCB,MAIN CHI CD-6010G		L20 - L22	E0176132	FLTR,BL02RN2R3N1A G	
	<b>E95451200A</b>	<b>PCB ASSY,MAIN CD-6010 G</b>		L55	E0176132	FLTR,BL02RN2R3N1A G	
U1, U6	S0065024	IC,BD46285G G		P1	E0123220	CONNECTOR,3675P40VUAG G	
U2	S0089153	IC,M12L2561616A-6T-G2K G		P3	E0101954	CONNECTOR,B6B-PH-SM4(LF) G	
U3	S0075173	IC,MCF5251VM140 G		P4	E0102364	CONNECTOR,B 7B-ZR-SM4(LF)	
U4	S00938000A	IC,ROM ASSY SYS CD-6010 G		P5	E0155260	JACK,NC3MAH(XLR) G	
	S0084573	IC,MX29LV160DBTI-70G G		P6, P7	E0102384	CONN,B 9B-ZR-SM4(LF)(SN) G	
	D01167200A	SOFTWARE SPEC,SYS CD6010 G		P8	E0102374	CONNECTOR,B 8B-ZR-SM4(LF)	
	M01502000A	LABEL, TYPE 12*6(BLANK) G		P9	E0102354	CONN,B 6B-ZR-SM4(LF)(SN)	
U5	E0185104	XTAL OSC,MIN35 33.8688M G		P10	E0102364	CONNECTOR,B 7B-ZR-SM4(LF)	
U7	S0086764	IC,DS8921M/NOPB G		P12, P13	E0155260	JACK,NC3MAH(XLR) G	
U8, U12	S0046854	IC,SN74LV541APWR G		P14	E0101974	CONNECTOR,B8B-PH-SM4(LF)G	
U9	S0064984	IC,BA033FP-E2SMT TAPING G		P15	E0101984	CONNECTOR,B 9B-PH-SM4(LF)	
U10	S0058424	IC,M24512-WMW6TG G		T1	E01651100A	TRANS,PULSE 400UH G	
U11-U14	S0068064	IC,SN74HCT541PW G		T2	E0168384	FLTR,ACM2520-102-2P-T G	
U15	S0076934	IC,SN74AHC1G04DBVRG4 G		J1	E0128300	PIN,RJ-1081-31-0341A G	
U16, U19	S0067634	IC,LIN NJM5532M G		J2	E0179050	JACK,YKC21-4042V G	
U17	S0064654	IC,NJM7805DL1A-TE1 G					
U18	S0092933	IC,AK4480EF G					
U20	S0092184	IC,TPS73801DCQR G					
U21	S0066620	IC,NJM7912FA G					
U23, U24	E0123180	RELAY,RSB-12-S G					
U30, U32	E0123180	RELAY,RSB-12-S G					
U22, U25	S0067634	IC,LIN NJM5532M G					
U27, U29	S0067634	IC,LIN NJM5532M G					
U28	S0083244	IC,SSM2305RMZ G					
U31	S0067634	IC,LIN NJM5532M G					
Q5, Q7, Q9	S0073024	TRANSISTOR,2SC4081 TP G					
Q11 - Q13	S0073024	TRANSISTOR,2SC4081 TP G					
Q14	S0066984	TRANSISTOR,2SA1037AK TP G					
Q15	S0073024	TRANSISTOR,2SC4081 TP G					
D2 D3	S0023224	DIODE,DAN217 T146 G					
D5 D6	S0023224	DIODE,DAN217 T146 G					
D7	S0088214	DIODE,RB060M-30 G					
D9	S0022094	DIODE,1S5355					
D10, D12	S0023224	DIODE,DAN217 T146 G					
D11, D14	S0078414	DIODE,RF071M2STR G					
D13, D15	S0023224	DIODE,DAN217 T146 G					
D17, D18	S0023224	DIODE,DAN217 T146 G					
D19, D21	S0078414	DIODE,RF071M2STR G					
D20, D22	S0023224	DIODE,DAN217 T146 G					
L1 - L15	E0126164	BEAD COIL,BLM18PG471SN1D G					
L16	R0156284	RD,1/10W 33 OHM J0603G					
L17, L19	E0126164	BEAD COIL,BLM18PG471SN1D G					
L23, L25	E0126164	BEAD COIL,BLM18PG471SN1D G					
L24, L26	E0148994	BEAD COIL,MPZ1608S221AT					
L27 - L52	E0126164	BEAD COIL,BLM18PG471SN1D G					
L53, L54	E0148994	BEAD COIL,MPZ1608S221AT					
L62, L63	E0126164	BEAD COIL,BLM18PG471SN1D G					
L64	E0101174	COIL,LQH43CN100K03L G					
L65, L66	E0126164	BEAD COIL,BLM18PG471SN1D G					
L67, L70	E0148994	BEAD COIL,MPZ1608S221AT					
L71, L74	E0148994	BEAD COIL,MPZ1608S221AT					
L75 - L77	E0126164	BEAD COIL,BLM18PG471SN1D G					
L78 - L82	E0148994	BEAD COIL,MPZ1608S221AT					

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,POWER G

#### 電源基板

### GATHER PCB,IO CD-6010 G

#### I/O 基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95451600A)	GATHER PCBA,POWER G			(E95451800A)	GATHER PCBA,IO CD-6010 G	
	(E95451654A)	GATHER PCBA,POWER CHI G	For China		(E95451854A)	GA PCBA,IO CHI CD-6010 G	For China
	<b>E95451400A</b>	<b>PCB ASSY,POWER G</b>			<b>E95451300A</b>	<b>PCB ASSY,IO CD-6010 G</b>	
R2	R0176820	POWER THERMISTOR,16D-13 G	⚠	U700	S0063924	IC,MAX3221CPWR G	
R3	R0185651	RN,METEL1W330K OHM F TP G	⚠	U701	S0075114	IC,R8A66151SP G	
R4	R0171331	RN,METAL1/8W620 OHMFTPG		U705, U707	S0082972	IC,BD9702CP-V5 G	
R5	R0171221	RN,METAL 1/8W 220 OHMFTPG		U706	S0082474	IC,TPS5430DDAR G	
R6	R0154521	RD,1/8W 4.7 OHMJ26MM G	⚠				
R7	R0155091	RD,1/8W 1.5K OHM J 26MMG		Q700	S0038874	TRANSISTOR,2SD2150	
R8	R0171601	RN,METAL1/8W8.2KOHMFTP G		Q701	S0067924	TRANSISTOR,DTA124EKA G	
R9	R0155291	RD,1/8W 10K OHMJ26MMG		Q702	S0059254	TRANSISTOR,DTC124EKA G	
R10	R0205091	RN,METEL1/2W0.5 OHM JTP G	⚠	Q703 - Q710	S0038874	TRANSISTOR,2SD2150	
R11	R0171461	RN,METAL 1/8W 2.2K OHMFTPG		Q711	S0059254	TRANSISTOR,DTC124EKA G	
R12	R0172431	RN,METALOXIDE2W100 OHMJG		Q712	S0086774	FET,RRH075P03 G	
R13	R0155641	RD,1/8W 330K OHMJ26MMG	⚠				
R21	R0231020	RD,1W 1M OHM J G	⚠	D700	S0021344	DIODE,RB160L-40	
R24	R0155641	RD,1/8W 330K OHMJ26MMG	⚠	D701 - D709	S0023224	DIODE,DAN217 T146 G	
				D710	S0071644	DIODE,RB161M-20 G	
C1	C0061832	CQ,100V0.10UFJMYLARTPG		D711 - D716	S0023224	DIODE,DAN217 T146 G	
C2	C0042162	CQ,630V 0.01UF K	⚠	D717, D718	S0038784	DIODE,RB050L-40 G	
C3 C4	C0032860	CC, 250V 2200PF M	⚠				
C5	C0085160	CE,25V 3300UF M FK G	⚠	RA700 - RA703	R0186564	RES ARRAY,10KOHM*4 J G	
C7	C0085150	CE,25V 2200UF M FK G	⚠	RA704, RA705	R0157484	RES ARRAY,4.7K OHM*40603G	
C9	C0059860	CQ,0.22UFAC 250VG	⚠				
C10, C11	C0076090	CQ,0.1UFAC 275V-G	⚠	F700	E0139964	FUSE,NANOSMDC012F G	
C12	C0032860	CC, 250V 2200PF M	⚠				
C14	C0061672	CQ,100V0.022UFJMYLARTPG	⚠	L701 - L706	E0126164	BEAD COIL,BLM18PG471SN1D G	
C15	C0061592	CQ,100V0.010UFJMYLARTPG	⚠	L707	E0176132	FLTR,BL02RN2R3N1A G	
C16	C0085350	CE,63V47UF M RJ3 G	⚠	L708	E0126214	COIL,CDRH6D38-100 10UH G	
C17	C0040510	CC,E 250V 2200PF M KX G	⚠	L709	E0130740	COIL,10UH 3.6A DR2W8*7 G	
	M0338710	COVER,C HU-14 G	⚠	L710, L712	E0176132	FLTR,BL02RN2R3N1A G	
C18	C0085370	CC,2KV 47PF J DEA G	⚠	L711, L713	E0147934	COIL,CDR7D43MNNP-330NC G	
C22	C0095590	CE,400V 220UF M G (LGU2G)	⚠	L714 - L717	E0176132	FLTR,BL02RN2R3N1A G	
				L718	E0172934	COIL,CDRH8D38NP-101NC G	
U1	S0084420	IC,STR-W6252D G	⚠	L719	E0101174	COIL,LQH43CN100K03L G	
	M03072200A	HEAT SINK,16.5*15.5*25 G	⚠	L720, L721	E0126164	BEAD COIL,BLM18PG471SN1D G	
	B00174008A	SCREW,BPA 3*8 FZC G	⚠	L722	E0176132	FLTR,BL02RN2R3N1A G	
U2	S0067070	PHOTO COUPLER,PC123X2YFXG	⚠	L723	E0130740	COIL,10UH 3.6A DR2W8*7 G	
U3	S0073400	IC,TL431CLPR G	⚠	L724 - L726	E0126164	BEAD COIL,BLM18PG471SN1D G	
D1	R0208310	VARISTOR,ERZV14D471 ERZ G	⚠	J700	E0126450	D-SUB,5504F1-25S02-03-F1G	
D2-D5	S0073370	DIODE,EM01A G	⚠	J702	E0123230	D-SUB,5504F1-09S-02-03 G	
D6	S0069140	DIODE,FR 0.7A1000V RG-1CG	⚠				
D7	S0092200	DIODE,RFN10T2D G	⚠				
	3M0084020B	HEAT SINK 45MM G	⚠	P700	E01825400B	HARN ASSY,DC CD-6010 G	
	B00199408A	SCREW,BPB 3*8 FZC G	⚠	P701	E01825300A	HARN ASSY,P12V CD-6010 G	
D9	S0073460	DIODE,UFAST 200V AL01Z G	⚠	P702, P703	E01825500B	HARN ASSY,CD CD-6010 G	
D10	S0083901	ZENER DIO,MT6J5.6B T-77G	⚠				
F1	E0184820	FUSE,250V 1.6A 21501.6P G	⚠				
	E0126350	HOLDER,FUSE HOLDER 5.0 G	⚠				
FG1, FG2	E0123470	TERMINAL,GND-8 G					
L1	E0130740	COIL,10UH 3.6A DR2W8*7 G					
L3	E0127050	COIL,2.2MH 1.3A LF2020G	⚠				
P001	E0112450	CONNECTOR,B2P3VH(LF)(SN) G					
P002, P003	E0102450	CONNECTOR,B4B-EH(LF)(SN)G					
T3	E01678700A	TRANS,SW AS-2822 HS8 G	⚠				

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "( )" 付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,FRONT CD-6010 G

#### フロントパネル基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	<b>E95451900A</b>	<b>GATHER PCBA,FRONT CD-6010 G</b>		D523 - D525	S0022094	DIODE,1SS355	
	<b>E95451954A</b>	<b>GA PCBA,FRONT CHI CD6010G</b>	For China	D529, D531	S0022094	DIODE,1SS355	
		<i>PCB,AC INLET</i>		D532	S0080034	ZENER DIO,RSB5.6S TE61 G	
L850	(E95452100A)	PCB ASSY,AC_INLET CD-6010 G		D534 - D536	S0022094	DIODE,1SS355	
P850	E0130710	COIL,3.9MH 1.0A LF2020 G	⚠	D539	S0080034	ZENER DIO,RSB5.6S TE61 G	
	E0172860	CONN,CDJ-3-1A G	⚠	D541 - D543	S0022094	DIODE,1SS355	
P851	E01733500B	HARN ASSY,AC-E CD-500 G	⚠	D545, D547	S0022094	DIODE,1SS355	
P852	E01825100A	HARN ASSY,PW_SW CD-6010 G	⚠	D548	S0080034	ZENER DIO,RSB5.6S TE61 G	
	E01825200B	HARN ASSY,AC CD-6010 G	⚠	D552 - D556	S0022094	DIODE,1SS355	
		<i>PCB,AC SW</i>		D557, D559	S0080034	ZENER DIO,RSB5.6S TE61 G	
	(E95452200A)	PCB ASSY,AC_SW CD-6010 G		D561, D563	S0022094	DIODE,1SS355	
C840	E0122630	SPK KILLER,CS12-F2GA472MYAS G	⚠	D570, D577	S0023224	DIODE,DAN217 T146 G	
P840	E0111890	CONN,B2P35-VH(LF)(SN)	⚠	D583	S0023224	DIODE,DAN217 T146 G	
SW840	E0128290	SW,SFDLB11L7U-TK-G	⚠	D584 - D586	S0080034	ZENER DIO,RSB5.6S TE61 G	
		<i>PCB,REM</i>		D587	S0022094	DIODE,1SS355	
	(E95452300A)	PCB ASSY,REM CD-6010 G		L500 - L509	E0126164	BEAD COIL,BLM18PG471SN1D G	
D650	S0080034	ZENER DIO,RSB5.6S TE61 G		P500	E0102354	CONN,B 6B-ZR-SM4(LF)(SN)	
D651	S0023224	DIODE,DAN217 T146 G		P501	E0102374	CONNECTOR,B 8B-ZR-SM4(LF)	
L650, L651	E0126164	BEAD COIL,BLM18PG471SN1D G		P502	E0102324	CONNECTOR,B 3B-ZR-SM4(LF)	
J650	E0130430	JACK,2.5MM LGK2002-0600F		P503	E0102384	CONN,B 9B-ZR-SM4(LF)(SN) G	
P650	E0125404	CONNECTOR,S4B-ZR-3.4 G		SW500 - SW525	E0154372	SW,TACT SKRGAE D010 G	
		<i>PCB,SLIDE</i>		D564	S0068910	LED,ORG SLR-342DU-3F-G	
	(E95452400A)	PCB ASSY,SLIDE CD-6010 G		M0329050		SPACER,LEDH-10 G	
P820	E0119730	CONNECTOR,B 2B-PH-K-S G		D565	S0068910	LED,ORG SLR-342DU-3F-G	
SW820	E0182670	SW,SLIDE SSS5910800 G		M0329050		SPACER,LEDH-10 G	
		<i>PCB,VR</i>		D566	S0068910	LED,ORG SLR-342DU-3F-G	
	(E95452500A)	PCB ASSY,VR CD-6010 G		M0329050		SPACER,LEDH-10 G	
P830	E0101974	CONNECTOR,B8B-PH-SM4(LF)G		D567	S0068910	LED,ORG SLR-342DU-3F-G	
	EZ5452502A	PCB ASSY,T-VR CD-6010 G		M0329050		SPACER,LEDH-10 G	
VR830	R0155900	VAR RES,RK09K12A-20KAG		D568	S0068910	LED,ORG SLR-342DU-3F-G	
		<i>PCB,HP JACK</i>		M0329050		SPACER,LEDH-10 G	
	(E95452600A)	PCB ASSY,HP_JACK CD-6010 G		D569	S0068910	LED,ORG SLR-342DU-3F-G	
L800 - L802	E0126164	BEAD COIL,BLM18PG471SN1D G		M0329050		SPACER,LEDH-10 G	
L803	E0148994	BEAD COIL,MPZ1608S221AT		D571	S0068910	LED,ORG SLR-342DU-3F-G	
L804	E0148994	BEAD COIL,MPZ1608S221AT		M0329050		SPACER,LEDH-10 G	
L805	R0157394	RD,1/10W 0 OHM J0603G		D572	S0068910	LED,ORG SLR-342DU-3F-G	
J800	E0168640	JACK,JY-6315-01-090 G		M0329050		SPACER,LEDH-10 G	
P800	E01826600B	HARN ASSY,SP CD-6010 G		D573	S0068910	LED,ORG SLR-342DU-3F-G	
P801	E01826400A	HARN ASSY,SLIDE CD-6010 G		M0329050		SPACER,LEDH-10 G	
P802	E01826200A	HARN ASSY,HP CD-6010 G		D574	S0068910	LED,ORG SLR-342DU-3F-G	
		<i>PCB,FRONT</i>		M0329050		SPACER,LEDH-10 G	
	(E95452700A)	PCB ASSY,FRONT CD-6010 G		D575	S0021800	LED,SLR-342MG	
U500	E0062220	RMCN RCVR RPM6938-V4 G		M0329050		SPACER,LEDH-10 G	
	3M0266300A	CUSHION 8*8*4 CD-P1260 G		D576	S0068910	LED,ORG SLR-342DU-3F-G	
U501	E0172410	ENCDR,XRE012605PVB25 G		M0329050		SPACER,LEDH-10 G	
U502 - U504	S0093864	IC,SN74AHC374PWR G		D578	S0068910	LED,ORG SLR-342DU-3F-G	
U505	S0090464	IC,HD74LV1G32ACME-E G		M0329050		SPACER,LEDH-10 G	
				D579	S0021800	LED,SLR-342MG	
D501 - D504	S0080034	ZENER DIO,RSB5.6S TE61 G		M0329050		SPACER,LEDH-10 G	
D507, D508	S0022094	DIODE,1SS355		D580	S0068910	LED,ORG SLR-342DU-3F-G	
D512 - D514	S0022094	DIODE,1SS355		M0329050		SPACER,LEDH-10 G	
D515	S0080034	ZENER DIO,RSB5.6S TE61 G		D581	S0068910	LED,ORG SLR-342DU-3F-G	
D518, D521	S0022094	DIODE,1SS355		M0329050		SPACER,LEDH-10 G	
				D582	S0068910	LED,ORG SLR-342DU-3F-G	
				M0329050		SPACER,LEDH-10 G	

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,J CDX05 G

#### LCD基板

REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95193420A)	PCBA,GATHER J CD-500 G	For China
	(E95193454A)	PCBA,GATHER J CHI CD500 G	
	(E95192620A)	PCB ASSY,DISPLAY(J)CD500G	
	<b>V00186600A</b>	<b>PCBA,DISP+LED (J)CD500 G</b>	
U107	S0089444	IC,HT1621-48 G	
R12	R0156524	RD,1/10W 330 OHM J0603G	
R13	R0156524	RD,1/10W 330 OHM J0603G	
	EZ5192612B	PCB ASSY,T-DISP(J)CD-01U G	
LCD101	E01057500A	LCD,TSB2454DBTDPN-SP(4) G	
	M01661800B	HOLDER,LCD G	
	M01661900A	LENS, G	
	M01662000A	SHEET,DIFFUSION G	
	M01662100A	SHEET,REFLECT G	
	M01840600A	SHEET,MIRROR CD-X1500 G	
	M01643200A	SHEET,PANEL FRONT G	
	E95192720A	PCB ASSY,LED(J) CD500 G	
	E90192700B	PCB,LED(J) CDX05	
	EZ5192720A	PCB ASSY,S-LED(J) CD500 G	
LED149	S0089884	LED,NESW455BT G	
LED160	S0089884	LED,NESW455BT G	
	EZ5192702A	PCB ASSY,T-LED(J) CDX05	
J48	E00889400A	HARNES ASSY,E01 G	
	A0007520	STRING SOLDER,0.8 G	
	A0008800	CREAM SOLDER,S70G-SX	

## 9. Included Accessories

付属品

### Included Accessories

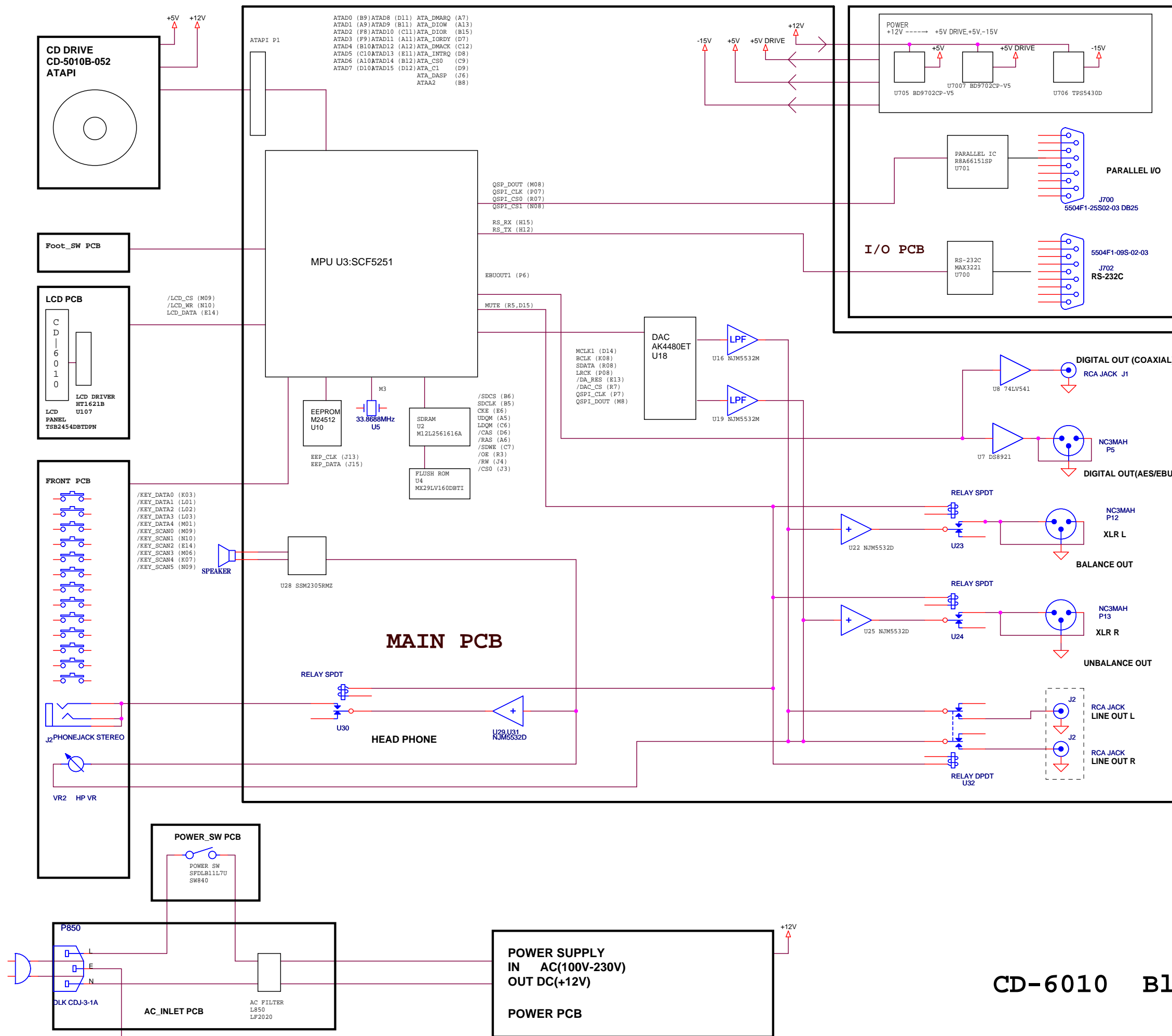
REF.NO.	PARTS NO.	DESCRIPTION .	REMARKS
	3E014150	POWER CORD,UL-G [ E ]	⚠
	3E014160	POWER CORD,EUR-G [ E ]	⚠
	3E014170	POWER CORD,UK [ UK ]	⚠
	3E014180	POWER CORD,AUS [ A ]	⚠
	3E039940	POWER CORD,TM G [ T ]	⚠
	E0147010	POWER CORD,UE-96S-239 G [ CH ]	⚠
	E0178290	POWER CORD,KOR C13 1.8M G [ K ]	⚠
	E0168660	AC PLUG,WS-037-A PSE G	
	D01168501A	OWNERS MNL,(J)CD6010 G [J]	
	D01168520A	OWNERS MNL,(E)CD6010 G [ Except J ]	
	D01168554A	OWNERS MNL,(C)CD6010 G [ CH ]	
	D01168580A	OWNERS MNL,(G)CD6010 G [ E ]	
	D01168581A	OWNERS MNL,(F)CD6010 G [ E ]	
	D01168582A	OWNERS MNL,(I)CD6010 G [ E ]	
	D01168583A	OWNERS MNL,(S)CD6010 G [ E ]	
	E01736300A	RMT CONT,RC-500 G	
	E0155030	BATTERY,UM4(ENGLISH)G	
	3M0028300A	ASSY,RACK MOUNT SCREW KIT	
	3B0005812A	SCREW,BPA M5X12 (NI)	
	3M0028100A	WASHER-FIBER(BLK)	

#### NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
 [ J ] : JAPAN [ US/C ] : U.S.A./CANADA [ K ] : KOREA  
 [ E ] : EUROPE [ UK ] : U.K. [ JEX ] : JAPAN & ASIA  
 [ A ] : AUSTRALIA [ T ] : TAIWAN  
 [ CH ] : CHINA [ ETC ] : U.S.A./CANADA/South America

#### 注意

- プリント基板図は部品面を示しています。
- \*印の部品は納期が若干かかります。あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- ⚠ 印は安全重要部品です。交換する時は必ず指定の部品を使用してください。
- 仕向先  
 [ J ] : JAPAN [ US/C ] : U.S.A./CANADA [ K ] : KOREA  
 [ E ] : EUROPE [ UK ] : U.K. [ JEX ] : JAPAN & ASIA  
 [ A ] : AUSTRALIA [ T ] : TAIWAN  
 [ CH ] : CHINA [ ETC ] : U.S.A./CANADA/South America



CD-6010 Block\_Fig

**TASCAM CD-6010  
CONTROL I/O Terminals  
RS-232C Protocol Specifications**

**TEAC Corporation**

## 1. Overview

The CD-6010 ("controlled device") can be controlled from an external device ("external controller"), such as a computer, through a serial RS-232C connection.

## 2. Specifications

### 2.1. Electrical Specifications

Standard	JIS X-5101 (equivalent to the former JIS-C-6361 and EIA RS-232C standards)
Impedance at receiver	Note that this is not compatible with the RS-422 used in professional VTRs. When measured with an applied voltage between -3 V and +3 V or between -15 V and +15 V, the DC resistance is between 3 kohms and 7 kohms. Total load capacitance is 2500 pF or less.
Open circuit voltage at transmitter	25V or less
Open circuit voltage at receiver	2V or less
Signal voltage	When the open circuit voltage at the receiver is 0 V, the signal voltage is between -5 V and +5 V or between -15 V and +15V against a load impedance between 3 kohms and 7 kohms.
Signal discrimination	Logic "1": -3V or less Logic "0": +3V or more

### 2.2. Communication format

Circuit type	3-wire, Half-duplex
Transmission type	Digital binary serial
Data signal rate (baud rate)	9600/19200/38400 bits/sec
Data bits	8 bits
Parity bits	None
Stop bits	1 bit

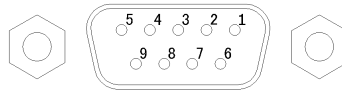
\*Data signal rate can be set from the menu of the controlled device.

Data bits, parity bits, and stop bits are fixed.

**2.3. Connector pin-out**

Connector

D-sub 9pin female (Inch screw thread)

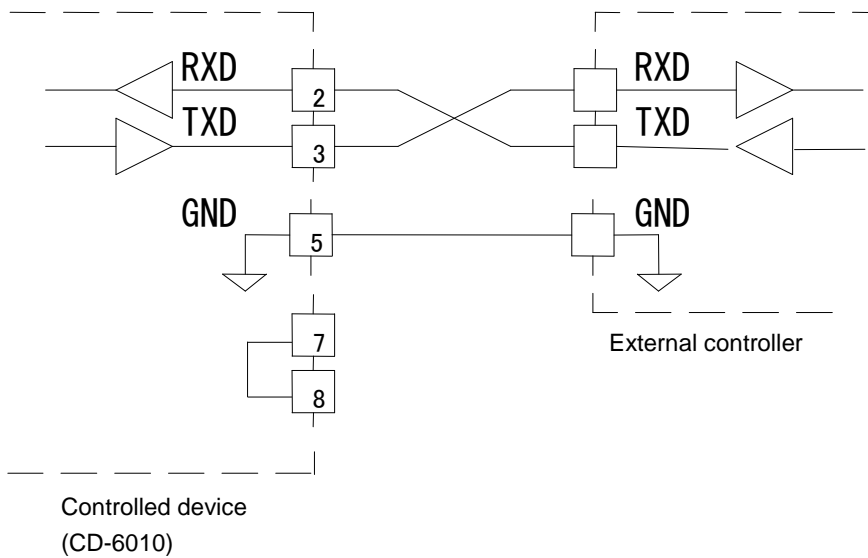


Terminal pin-out and input/output signals

Pin No.	In/Out	Signal name	Description
1	-	NC	Not connected
2	In	Rx DATA	Data received at this pin (*1)
3	Out	Tx DATA	Data transmitted from this pin
4	-	(Reserved)	Reserved
5	-	GND	Signal ground pin
6	-	(Reserved)	Reserved
7	Out	RTS	Short-circuit to Pin No. 8.
8	In	CTS	Short-circuit to Pin No. 7.
9	-	NC	Not connected

\*1: Make sure that a voltage applied to Pin No. 2 for Rx DATA conforms to the RS-232C standard.

\*2: Pins No. 7 and 8 are short-circuited to receive or transmit RTS/CTS signals.



### 3. Command Format

#### 3.1. Command Format Overview

The command format is as follows.

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	...	Byte n
LF	ID	Command		Data 1	Data 2	Data 3	Data 4	...	CR

A command uses a 2-byte ASCII format, starting with Line Field (LF), which is followed by machine ID, and ending with Carriage Return (CR).

For information about machine ID, see the section 3-2 Machine ID.

A command is followed by a byte string, which consists of data ranging from 0 bytes (if the command includes no data) to 98 bytes, maximum.

For detailed information about data, see each of the sections explaining commands. Note that capital letters are used for "A to F" for commands that use 0 to 9 and A to F as data values.

#### Command examples

Example 1: Sending the PLAY command to the controlled device with the machine ID=0

When the controlled device is in the stop or ready state, the PLAY command starts playing the controlled device.

The PLAY command is [12] and sent in the following format.

		ID	Command		
ASCII	LF	0	1	2	CR
HEX	0Ah	30h	31h	32h	0Dh

Example 2: Performing a direct search for the track 12 on the controlled device with the machine ID=0

To do a direct search for the track 12, DIRECT TRACK SEARCH PRESET command [23] is sent.

Data bytes consist of 2-byte ASCII characters.

A track number is specified in the DIRECT TRACK SEARCH PRESET command as shown below.

Data 1    tens digit of the track number to be specified

Data 2    ones digit of the track number to be specified

Data 3    thousands digit of the track number to be specified

Data 4    hundreds digit of the track number to be specified

Based on the above rule, the send command is described as follows.

		ID	Command		Data: 12th track				
ASCII	LF	0	2	3	1	2	0	0	CR
HEX	0Ah	30h	32h	33h	31h	32h	30h	30h	0Dh

#### 3.2. Machine ID

The Machine ID is fixed at [0]. A command with the machine ID other than [0] is ignored.

**3.3. Command Sequence**

In most cases, the controlled device does not send an ACK command in response to a transport control command or data preset command that is sent from an external controller.

The controlled device sends a return command in response to a data sense command that requests the controlled device to return the controlled device's preset data values.

If the controlled device switches from one state to another - from stop state to playback state, for example, or if an error occurs, the controlled device sends a command to notify the external controller about the state transition.

Examples of command sequences are shown below.

Make sure that commands are sent at a minimum of 20-millisecond intervals.

Example 1: Using a transport control of the controlled device (e.g. playback)

When entering the playback state after receiving the playback command, the controlled device sends the CHANGE STATUS command.

The controlled device does not send an ACK command in response to this command.

Command			Status of the controlled device
External controller		Controlled device	
			STOP
PLAY	->		
	<-	CHANGED STATUS	Sent when the controlled device enters the playback state

Example 2: Presetting data (e.g. pitch control data)

When receiving the PITCH CONTROL DATA PRESET command, the controlled device sets the pitch control data. The controlled device does not send an ACK command in response to this command.

Command			Status of the controlled device
External controller		Controlled device	
PITCH CONTROL DATA PRESET (preset to -1.0 %)	->		Sets the pitch control data to -1.0%

Example 3: Requesting currently set data (e.g. pitch control data)

When receiving the PITCH CONTROL DATA PRESET (Sense) command, the controlled device sends the set pitch control data.

Command			Status of the controlled device
External controller		Controlled device	
PITCH CONTROL DATA PRESET (Sense)	->		
	<-	PITCH CONTROL DATA RETURN	

**3.4. List of Commands**

Control/Preset/Sense Command		Return Command	
		88	TIME DATA
0F	INFORMATION REQUEST	8F	INFORMATION RETURN
10	STOP		
12	PLAY		
14	READY		
15	JOG		
16	SHUTTLE		
18	TRAY/EJECT		
1A	SKIP		
1D	CALL		
20	AUTO CUE LEVEL PRESET	A0	AUTO CUE LEVEL RETURN
23	DIRECT TRACK SEARCH PRESET		
25	PITCH CONTROL DATA PRESET	A5	PITCH CONTROL DATA RETURN
2C	TIME SEARCH PRESET		
2E	FADE IN/OUT TIME PRESET	AE	FADE IN/OUT TIME RETURN
30	AUTO CUE SELECT	B0	AUTO CUE SELECT RETURN
32	EOM TRACK TIME PRESET	B2	EOM TRACK TIME RETURN
34	TIMER/RESUME PLAY SELECT	B4	TIMER/RESUME PLAY SELECT RETURN
35	PITCH CONTROL SELECT	B5	PITCH CONTROL SELECT RETURN
36	AUTO READY SELECT	B6	AUTO READY SELECT RETURN
37	REPEAT SELECT	B7	REPEAT SELECT RETURN
3A	INCR PLAY SELECT	BA	INCR PLAY SELECT RETURN
3E	FADE IN/OUT SELECT	BE	FADE IN/OUT SELECT RETURN
3F	TIME DATA SEND SELECT	BF	TIME DATA SEND SELECT RETURN
4D	PLAY MODE SELECT		
4E	PLAY MODE SENSE	CE	PLAY MODE RETURN
50	MECHA STATUS SENSE	D0	MECHA STATUS RETURN
53	ISRC SENSE	D3	ISRC RETURN
55	TRACK NO. SENSE	D5	TRACK NO. RETURN
56	DISC STATUS SENSE	D6	DISC STATUS RETURN
57	CURRENT TRACK INFORMATION SENSE	D7	CURRENT TRACK INFORMATION RETURN
58	CURRENT TRACK TIME SENSE	D8	CURRENT TRACK TIME RETURN
5D	TOTAL TRACK NO./TOTAL TIME SENSE	DD	TOTAL TRACK NO./TOTAL TIME RETURN
5E	PGM TOTAL TRACK NO./TOTAL TIME SENSE	DE	PGM TOTAL TRACK NO./TOTAL TIME RETURN
		F0	ERROR SENSE REQUEST
		F2	ILLEGAL STATUS
		F4	POWER ON STATUS
		F6	CHANGE STATUS
78	ERROR SENSE	F8	ERROR SENSE RETURN

**3.5. Command Details**

**•INFORMATION REQUEST**

INFORMATION REQUEST requests the controlled device to return information including the software version of the controlled device.

Command      0F  
 Data            None  
 Return         INFORMATION RETURN [8F]

**•STOP**

STOP puts the controlled device into the stop state.

Command      10  
 Data            None  
 Return         None

**•PLAY**

Play puts the controlled device into a playback mode.

Command      12  
 Data            None  
 Return         None

**•READY**

READY turns the ready mode of the controlled device on or off.

Command      14  
 Data            2 bytes  
 Return         None

Data 1	Data 2	Description	Remarks
0	0	Ready OFF	Turns the ready mode off
0	1	Ready ON	Turns the ready mode on

•If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**•JOG**

JOG turns the jog mode of the controlled device on or off or performs a frame accurate search.

Command      15  
 Data            2 bytes  
 Return         None

Data 1	Data 2	Description	Remarks
0	0	Jog OFF	Turns the jog mode off
0	1	Jog ON	Turns the jog mode on
1	0,2,4,6, 8,A,C,E	Jog forward	Frame accurate search in the forward direction 1~8 Frame *Frame=Data2/2+1, Even=Forward
1	1,3,5,7, 9,B,D,F	Jog reverse	Frame accurate search in the backward direction 1~8 Frame *Frame=Data2/2+1, Odd=Backward

•If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**•SHUTTLE**

SHUTTLE puts the controlled device into the shuttle mode. The controlled device remains in the shuttle mode until it receives a command such as STOP, PLAY, or READY.

Command 16  
 Data 2 bytes  
 Return None

Data 1	Data 2	Description	Remarks
0	0	Shuttle forward	Switches to the forward shuttle mode
0	1	Shuttle reverse	Switches to the backward shuttle mode

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**•TRAY/EJECT**

TRAY/EJECT opens the tray on the controlled device.

Command 18  
 Data None  
 Return None

**•SKIP**

SKIP allows the controlled device to skip a track or index.

Command 1A  
 Data 2 bytes  
 Return None

Data 1	Data 2	Description	Remarks
0	0	Track Skip Next	Skips to the next track
0	1	Track Skip Previous	If the current position is at the beginning of a track (or within one second of the beginning of a track), the controlled device skips to the beginning of the previous track. If the current position is not at the beginning of a track, the controlled device skips to the beginning of the current track.
1	0	Index Skip Next	Performs an index search in the forward direction
1	1	Index Skip Previous	Performs an index search in the backward direction

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**•CALL**

CALL locates the controlled device to a call point and puts the controlled device into the ready state.

Command 1D  
 Data None  
 Return None

**•AUTO CUE LEVEL PRESET**

AUTO CUE LEVEL PRESET sets the auto cue level of the controlled device.

Only when this command is sent with request data ([FF]), the controlled device sends the AUTO CUE LEVEL RETURN command [A0].

The auto cue mode can be turned on or off using the AUTO CUE SELECT command [30].

Command        20  
 Data            2 bytes  
 Return         AUTO CUE LEVEL RETURN [A0]

Data 1	Data 2	Description	Remarks
0	0	-24dB	Sets the auto-cue level to -24dB
0	1	-30dB	Sets the auto-cue level to -30dB
0	2	-36dB	Sets the auto-cue level to -36dB
0	3	-42dB	Sets the auto-cue level to -42dB
0	4	-48dB	Sets the auto-cue level to -48dB
0	5	-54dB	Sets the auto-cue level to -54dB
0	6	-60dB	Sets the auto-cue level to -60dB
0	7	-66dB	Sets the auto-cue level to -66dB
0	8	-72dB	Sets the auto-cue level to -72dB
F	F	SENSE	Requests the controlled device to return the current auto-cue level setting

•If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**•DIRECT TRACK SEARCH PRESET**

DIRECT TRACK SEARCH RESET performs a search for a track on the controlled device by specifying the track number. If a track search is performed while the controlled device is in a playback state, the controlled device starts playing the selected track first.

If a track search is performed while the controlled device is in the stop or ready state, the controlled device enters the ready state at the selected track.

Command        23  
 Data            4 bytes  
 Return         None

	Description	Remarks
Data 1	Tens digit of the track number	Track number Example) 2301: Track 123
Data 2	Ones digit of the track number	
Data 3	Thousands digit of the track number	
Data 4	Hundreds digit of the track number	

**·PITCH CONTROL DATA PRESET**

PITCH CONTROL DATA PRESET sets the pitch of playback of the controlled device. (%)

Only when this command is sent with request data ([FF]), the controlled device sends the PITCH CONTROL DATA RETURN command [A5].

The pitch control mode can be turned on or off using the PITCH CONTROL SELECT command [35].

Command        25  
 Data            4 bytes or 2 bytes  
 Return         Pitch Control Data Return [A5]

Data1	Data2	Data3	Data4	Description	Remarks
		0 1			Positive (+) value Negative (-) value
N2	N3		N1	Preset %	N1: Tens digit of the pitch control value N2: Ones digit of the pitch control value N3: First decimal place of the pitch control value Example) 2310: -2.3%
F	F	...		Sense	Requests the controlled device to return the current pitch control setting

·If the specified data is out of range, the controlled device sends ILLEGAL [F2].

**·TIME SEARCH PRESET**

TIME SEARCH PRESET performs a search on the controlled device by specifying a track number and time.

If a search is performed while the controlled device is in a playback state, the controlled device starts playing at the specified position.

If a search is performed while the controlled device is in the stop or ready state, the controlled device enters the ready state at the specified position.

This command does not support MP3/WAV.

Command        2C  
 Data            12 bytes  
 Return         None

	Description	Remarks
Data 1	Tens digit of the track number	[Example] 050006002030: 05tr 06m 10s 30th frame
Data 2	Ones digit of the track number	
Data 3	Thousands digit of the track number	
Data 4	Hundreds digit of the track number	
Data 5	Tens digit of the minutes	
Data 6	Ones digit of the minutes	
Data 7	Thousands digit of the minutes	
Data 8	Hundreds digit of the minutes	
Data 9	Tens digit of the seconds	
Data 10	Ones digit of the seconds	
Data 11	Tens digit of the frame	
Data 12	Ones digit of the frame	

·If the specified data is out of range, the controlled device sends ILLEGAL [F2].

**·FADE IN/OUT TIME PRESET**

FADE IN/OUT TIME PRESET sets the fade-in or fade-out time.

Only when this command is sent with request data ([00FF] or [01FF]), the controlled device sends the FADE IN/OUT TIME RETURN command [AE].

The fade-in or fade-out mode can be turned on or off using the FADE IN/OUT SELECT command [3E].

Command 2E  
 Data 4 bytes  
 Return FADE IN/OUT TIME RETURN [AE]

Data1	Data2	Data3	Data4	Description	Remarks
0	0	N1	N2	Preset: 0 sec=OFF	Sets the fade-in time
0	1			N1: Tens digit N2: Ones digit Example) 0010: fade-in 10 sec.	Sets the fade-out time
		F	F	Sense fade-in: 00FF fade-out: 01FF	Requests the controlled device to return the current fade-in or fade-out time setting (unit: seconds)

·If the specified data is out of range, the controlled device sends ILLEGAL [F2].

**·AUTO CUE SELECT**

AUTO CUE SELECT turns the auto-cue mode of the controlled device on or off.

Only when this command is sent with request data ([FF]), the controlled device sends the AUTO CUE SELECT RETURN command [B0].

The auto-cue level can be set using the AUTO CUE LEVEL PRESET command [20].

Command 30  
 Data 2 bytes  
 Return AUTO CUE SELECT RETURN [B0]

Data1	Data2	Description	Remarks
0	0	Auto-cue mode OFF	Turns the auto-cue mode off
0	1	Auto-cue mode ON	Turns the auto-cue mode on
F	F	Sense	Requests the controlled device to return the auto-cue mode status

**·EOM TRACK TIME PRESET**

EOM TRACK TIME PRESET sets the EOM (end-of-track-warning) time in seconds.

Only when this command is sent with request data ([FF]), the controlled device sends the EOM TRACK TIME RETURN command [B2].

Command 32  
 Data 2 bytes  
 Return EOM TRACK TIME RETURN [B2]

	Description	Remarks
Data 1	Tens digit of the set time	The following settings are available: 00 (OFF), 5, 10, 15, 20, 25, 30, and 35.
Data 2	Ones digit of the set time	
Data (1,2) FF	Sense	Requests the controlled device to return the current EOM time setting.

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**·TIMER/RESUME PLAY SELECT**

TIMER/RESUME PLAY SELECT turns the timer playback mode of the controlled device on or off.

Only when this command is sent with request data ([FF]), the controlled device sends the TIMER/RESUME PLAY SELECT RETURN command [B4].

Command        34  
 Data            2 bytes  
 Return         TIMER/RESUME PLAY SELECT RETURN [B4]

Data 1	Data 2	Description	Remarks
0	0	Timer OFF/Resume OFF	
0	1	Timer ON/Resume OFF	
0	2	Timer OFF /Resume ON	
0	3	Timer ON /Resume ON	
F	F	Sense	Requests the controlled device to return the current timer playback mode setting

**·PITCH CONTROL SELECT**

PITCH CONTROL SELECT turns the pitch control mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the PITCH CONTROL SELECT RETURN command [B5].

The pitch control data can be set using the PITCH CONTROL DATA PRESET command [25].

Command        35  
 Data            2 bytes  
 Return         PITCH CONTROL SELECT RETURN [B5]

Data 1	Data 2	Description	Remarks
0	0	Pitch control OFF	
0	1	Pitch control ON	
F	F	Sense	Requests the controlled device to return the current pitch control mode setting

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

**·AUTO READY SELECT**

AUTO READY SELECT turns the auto ready mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the AUTO READY SELECT RETURN command [B6].

Command        36  
 Data            2 bytes  
 Return         AUTO READY SELECT RETURN [B6]

Data 1	Data 2	Description	Remarks
0	0	Auto-ready OFF	
0	1	Auto-ready ON	
F	F	Sense	Requests the controlled device to return the current auto-ready mode setting

**•REPEAT SELECT**

REPEAT SELECT turns the repeat mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the REPEAT SELECT RETURN command [B7].

Command 37  
 Data 2 bytes  
 Return REPEAT SELECT RETURN [B7]

Data 1	Data 2	Description	Remarks
0	0	Repeat OFF	
0	1	Repeat ON	
F	F	Sense	Requests the controlled device to return the current repeat mode setting

**•INCR PLAY SELECT**

INCR PLAY SELECT turns the incremental playback mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the INCR PLAY SELECT RETURN command [BA].

Command 3A  
 Data 2 bytes  
 Return INCR PLAY SELECT RETURN [BA]

Data 1	Data 2	Description	Remarks
0	0	Incremental playback OFF	
0	1	Incremental playback ON	
F	F	Sense	Requests the controlled device to return the current incremental playback mode setting

**•FADE IN/OUT SELECT**

FADE IN/OUT SELECT turns the fade-in and fade-out modes on or off.

Only when this command is sent with request data [FF], the controlled device sends the FADE IN/OUT SELECT RETURN command [BE].

Command 3E  
 Data 2 bytes  
 Return FADE IN/OUT SELECT RETURN [BE]

Data 1	Data 2	Description	Remarks
0	0	Fade-in OFF/Fade-out OFF	
0	1	Fade-in ON/Fade-out OFF	
1	0	Fade-in OFF/Fade-out ON	
1	1	Fade-in ON/Fade-out ON	
F	F	Sense	Requests the controlled device to return the current fade-in and fade-out mode settings

**•TIME DATA SEND SELECT**

TIME DATA SEND SELECT selects the disc time information that is automatically sent from the controlled device.

Only when this command is sent with request data [FF], the controlled device sends the TIME DATA SEND SELECT RETURN command [BF].

Command        3F  
 Data            2 bytes  
 Return         TIME DATA SEND SELECT RETURN [BF]

Data 1	Data 2	Description	Remarks
0	0	OFF	
0	1	Information on the elapsed time	With frame data
0	2	Information on the track remaining time	With frame data
0	4	Information on the total remaining time on the disc	With frame data
1	1	Information on the elapsed time	Without frame data
1	2	Information on the track remaining time	Without frame data
1	4	Information on the total remaining time on the disc	Without frame data
F	F	Sense	Requests the controlled device to return the current time data setting

**•PLAY MODE SELECT**

PLAY MODE SELECT sets the playback mode of the controlled device.

The playback mode setting can be checked using the PLAY MODE SENSE command [4E].

Command        4D  
 Data            2 bytes

Data 1	Data 2	Description	Remarks
0	0	Continuous	Continuous playback
0	1	Single	Single playback
0	2	Program	Programmed playback
0	3	Random	Random playback

**•PLAY MODE SENSE**

PLAY MODE SENSE requests the controlled device to return the current playback mode setting of the controlled device.

Command        4E  
 Data            None  
 Return         PLAY MODE RETURN [CE]

**•MECHA STATUS SENSE**

MECHA STATUS SENSE requests the controlled device to return the status of the specified mechanism of the controlled device.

Command        50  
 Data            None  
 Return         MECHA STATUS RETURN [D0]

**•ISRC SENSE**

ISRC SENSE requests the controlled device to return the ISRC code of each track or the catalog number information.

Command        53  
 Data            None  
 Return         ISRC RETURN [D3]

**•TRACK No. SENSE**

TRACK No. SENSE requests the controlled device to return the current track number.

Command        55  
 Data            None  
 Return         TRACK No. STATUS RETURN [D5]

**•DISC STATUS SENSE**

DISC STATUS SENSE requests the controlled device to return information about the presence or absence and the type of a disc in the controlled device.

Command        56  
 Data            None  
 Return         DISC STATUS RETURN [D6]

**•CURRENT TRACK INFORMATION SENSE**

CURRENT TRACK INFORMATION SENSE requests the controlled device to return information about the current track.

Command        57  
 Data            None  
 Return         CURRENT TRACK INFORMATION RETURN [D7]

**•CURRENT TRACK TIME SENSE**

CURRENT TRACK TIME SENSE requests the controlled device to return the selected time information about the current track or the whole disc.

Command        58  
 Data            2 bytes  
 Return         CURRENT TRACK TIME RETURN [D8]

Data 1	Data 2	Description	Remarks
0	0	Track elapsed time	
0	1	Track remaining time	
0	3	Total remaining time on the disc	

**•TOTAL TRACK No./TOTAL TIME SENSE**

TOTAL TRACK No./TOTAL TIME SENSE requests the controlled device to return the total number of tracks on a disc and the total running time of the disc in the controlled device.

For MP3/WAV, only the total number of tracks is returned.

Command	5D
Data	None
Return	TOTAL TRACK No./TOTAL TIME RETURN [DD]

**•PGM TOTAL TRACK No./TOTAL TIME SENSE**

PGM TOTAL TRACK No./TOTAL TIME SENSE requests the controlled device to return the total number and the total running time of the programmed tracks.

For MP3/WAV, only the total number of tracks is returned.

Command	5E
Data	None
Return	PGM TOTAL TRACK No./TOTAL TIME RETURN [DE]

**•ERROR SENSE**

ERROR SENSE requests the controlled device to return information about an error that occurred on the controlled device. Be sure to determine the error by using this command if the ERROR SENSE REQUEST command [F0] is issued from the controlled device.

Command:	78
Data:	None
Return:	ERROR SENSE RETURN [F8]

**•TIME DATA**

TIME DATA is a return command to show the time information that is selected by the TIME DATA SEND SELECT command [3F].

Command 88

Data 8 bytes

	Description	Remarks
<b>Data 1</b>	Tens digit of the minutes	<ul style="list-style-type: none"> <li>• The data output cycle depends on the controlled device.</li> <li>• The frame data may or may not be sent, depending on the setting of the TIME DATA SEND SELECT command.</li> </ul>
<b>Data 2</b>	Ones digit of the minutes	
<b>Data 3</b>	Thousands digit of the minutes	
<b>Data 4</b>	Hundreds digit of the minutes	
<b>Data 5</b>	Tens digit of the seconds	
<b>Data 6</b>	Ones digit of the seconds	
<b>Data 7</b>	Tens digit of the frame	
<b>Data 8</b>	Ones digit of the frame	

**•INFORMATION RETURN**

INFORMATION RETURN is sent in response to the INFORMATION REQUEST command [0F] to show the software version.

Command 8F

Data 4 bytes

Request command INFORMATION REQUEST [0F]

	Description	Remarks
<b>Data 1</b>	Tens digit of the software version	Example) 0123: Version 01.23
<b>Data 2</b>	Ones digit of the software version	
<b>Data 3</b>	First decimal place of the software version	
<b>Data 4</b>	Second decimal place of the software version	

**•AUTO CUE LEVEL RETURN**

AUTO CUE LEVEL RETURN is sent in response to the AUTO CUE LEVEL PRESET command [20] to show the current auto-cue level setting.

Command A0

Data 2 bytes

Request command AUTO CUE LEVEL PRESET [20]

Data 1	Data 2	Description	Remarks
0	0	-24dB	Auto-cue level setting is -24 dB.
0	1	-30dB	Auto-cue level setting is -30 dB.
0	2	-36dB	Auto-cue level setting is -36 dB.
0	3	-42dB	Auto-cue level setting is -42 dB.
0	4	-48dB	Auto-cue level setting is -48 dB.
0	5	-54dB	Auto-cue level setting is -54 dB.
0	6	-60dB	Auto-cue level setting is -60 dB.
0	7	-66dB	Auto-cue level setting is -66 dB.
0	8	-72dB	Auto-cue level setting is -72 dB.

**•PITCH CONTROL DATA RETURN**

PITCH CONTROL DATA RETURN is sent in response to the PITCH CONTROL DATA PRESET command [25] to show the current pitch control setting.

Command                      A5  
 Data                            4 bytes  
 Request command            PITCH CONTROL DATA PRESET [25]

Data 1	Data 2	Data 3	Data 4	Description	Remarks
		0 1			Positive (+) value Negative (-) value
N2	N3		N1	Preset %	N1: Tens digit of the pitch control value N2: Ones digit of the pitch control value N3: First decimal place of the pitch control value Example) 2310: -2.3 %

**•FADE IN/OUT TIME RETURN**

FADE IN/OUT TIME RETURN is sent in response to the FADE IN/OUT TIME PRESET command [2E] to show the current fade-in or fade-out time setting.

Command                      AE  
 Data                            4 bytes  
 Request command            FADE IN/OUT TIME PRESET [2E]

Data 1	Data 2	Data 3	Data 4	Description	Remarks
0	0	N1	N2	Preset: 0 sec=OFF	Fade-in time setting
0	1			N1: Tens digit N2: Ones digit Example) 0010: fade-in 10 sec.	Fade-out time setting

**•AUTO CUE SELECT RETURN**

AUTO CUE SELECT RETURN is sent in response to the AUTO CUE SELECT command [30] to show the current auto-cue mode setting.

Command                      B0  
 Data                            2 bytes  
 Request command            AUTO CUE SELECT [30]

Data 1	Data 2	Description	Remarks
0	0	Auto-cue mode OFF	
0	1	Auto-cue mode ON	

**•EOM TRACK TIME RETURN**

EOM TRACK TIME RETURN is sent in response to the EOM TRACK TIME PRESET command [32] to show the current EOM time setting.

Command                      B2  
 Data                            2 bytes  
 Request command            EOM TRACK TIME PRESET [32]

	Description	Remarks
Data 1	Tens digit of the set EOM time	00=OFF
Data 2	Ones digit of the set EOM time	

**•TIMER/RESUME PLAY SELECT RETURN**

TIMER/RESUME PLAY SELECT RETURN is sent in response to the TIMER/RESUME PLAY SELECT command [34] to show the current timer and resume playback mode settings.

Command                    B4  
 Data                        2 bytes  
 Request command        TIMER/RESUME PLAY SELECT [34]

Data 1	Data 2	Description	Remarks
0	0	Timer OFF/Resume OFF	
0	1	Timer ON/Resume OFF	
0	2	Timer OFF/Resume ON	
0	3	Timer ON/Resume ON	

**•PITCH CONTROL SELECT RETURN**

PITCH CONTROL SELECT RETURN is sent in response to the PITCH CONTROL SELECT command [35] to show the current pitch control mode setting.

Command                    B5  
 Data                        2 bytes  
 Request command        PITCH CONTROL SELECT [35]

Data 1	Data 2	Description	Remarks
0	0	Pitch control OFF	
0	1	Pitch control ON	

**•AUTO READY SELECT RETURN**

AUTO READY SELECT RETURN is sent in response to the AUTO READY SELECT command [36] to show the current auto-ready mode setting.

Command                    B6  
 Data                        2 bytes  
 Request command        AUTO READY SELECT [36]

Data 1	Data 2	Description	Remarks
0	0	Auto-ready OFF	
0	1	Auto-ready ON	

**•REPEAT SELECT RETURN**

REPEAT SELECT RETURN is sent in response to the REPEAT SELECT command [37] to show the current repeat setting.

Command                    B7  
 Data                        2 bytes  
 Request command        REPEAT SELECT [37]

Data 1	Data 2	Description	Remarks
0	0	Repeat OFF	
0	1	Repeat ON	

**•INCR PLAY SELECT RETURN**

INCR PLAY SELECT RETURN is sent in response to the INCR PLAY SELECT command [3A] to show the current incremental playback setting.

Command BA  
 Data 2 bytes  
 Request command INCR PLAY SELECT [3A]

Data 1	Data 2	Description	Remarks
0	0	INCR playback OFF	
0	1	INCR playback ON	

**•FADE IN/OUT SELECT RETURN**

FADE IN/OUT SELECT RETURN is sent in response to the FADE IN/OUT SELECT command [3E] to show the current fade-in and fade-out mode settings.

Command BE  
 Data 2 bytes  
 Request command FADE IN/OUT SELECT [3E]

Data 1	Data 2	Description	Remarks
0	0	Fade-in OFF/Fade-out OFF	
0	1	Fade-in ON/Fade-out OFF	
1	0	Fade-in OFF/Fade-out ON	
1	1	Fade-in ON/Fade-out ON	

**•TIME DATA SEND SELECT RETURN**

TIME DATA SEND SELECT RETURN is sent in response to the TIME DATA SEND SELECT command [3F] to show the current time data setting.

Command BF  
 Data 2 bytes  
 Request command TIME DATA SEND SELECT [3F]

Data 1	Data 2	Description	Remarks
0	0	Off	
0	1	Information on the elapsed time	With frame data
0	2	Information on the track remaining time	With frame data
0	4	Information on the total remaining time on the disc	With frame data
1	1	Information on the elapsed time	Without frame data
1	2	Information on the track remaining time	Without frame data
1	4	Information on the total remaining time on the disc	Without frame data

**•PLAY MODE RETURN**

PLAY MODE RETURN is sent in response to the PLAY MODE SENSE command [4E] to show the current playback mode setting.

Command                      CE  
 Data                              2 bytes  
 Request command              PLAY MODE SENSE [4E]

Data 1	Data 2	Description	Remarks
0	0	Continuous playback	
0	1	Single playback	
0	3	A-B repeat playback	
0	4	Programmed playback (data not available)	
0	5	Programmed playback (data available)	
0	6	Random playback	

**•MECHA STATUS RETURN**

MECHA STATUS RETURN is sent in response to the MECHA STATUS SENSE command [50] to show the current status of the specified mechanism of the controlled device.

Command                      D0  
 Data                              2 bytes  
 Request command              MECHA STATUS SENSE [50]

Data 1	Data 2	Description	Remarks
0	0	No disc	No disc loaded
0	2	Open	In tray open state
1	0	Stop	In stop state
1	1	Play	In playback state
1	2	Ready	In ready state
1	3	Other	During Disc tray moving

**•ISRC RETURN**

ISRC RETURN is sent in response to the ISRC SENSE command [53] to show the disc catalog number and ISRC code.

If neither catalog number nor ISRC code is recorded, the controlled device sends "0" for all data.

Command                      D3  
 Data                              25 bytes  
 Request command              ISRC SENSE [53]

	Description	Remarks
<b>Data 1-12</b>	ISRC code	
<b>Data 13-25</b>	Catalog number	

**•TRACK No. RETURN**

TRACK No. RETURN is sent in response to the TRACK No. SENSE command [55] to show the current track number.

Command                    D5  
 Data                        6 bytes  
 Request command        TRACK No. SENSE [55]

	Description	Remarks
<b>Data 1</b>	EOM Status	00: Shows that the current track has yet to reach the set EOM time or EOM display mode is turned off 01: Shows that the controlled device is displaying the EOM time
<b>Data 2</b>		
<b>Data 3</b>	Tens digit of the track number	
<b>Data 4</b>	Ones digit of the track number	
<b>Data 5</b>	Thousands digit of the track number	
<b>Data 6</b>	Hundreds digit of the track number	

**•DISC STATUS RETURN**

DISC STATUS RETURN is sent in response to the DISC STATUS SENSE command [56] to show the presence or absence of a disc and the type of the disc.

Command                    D6  
 Data                        4 bytes  
 Request command        DISC STATUS SENSE [56]

<b>Data 1</b>	Disc status	00: No disc 01: Disc loaded
<b>Data 2</b>		
<b>Data 3</b>	Disc type	00: CD-DA 02: CD-DA (RW) 10: CD-Data (ROM) 12: CD-Data (RW)
<b>Data 4</b>		

**•CURRENT TRACK INFORMATION RETURN**

CURRENT TRACK INFORMATION RETURN is sent in response to the CURRENT TRACK INFORMATION SENSE command [57] to show information about the current track.

Command                    D7  
 Data                        12 bytes  
 Request command        CURRENT TRACK INFORMATION SENSE [57]

	Description	Remarks
<b>Data 1</b>	Tens digit of the track number or the program number	If the playback mode is set to program (PGM), the controlled device sends only the program number for data1 and data2.
<b>Data 2</b>	Ones digit of the track number or the program number	
<b>Data 3</b>	Thousands digit of the track number	
<b>Data 4</b>	Hundreds digit of the track number	
<b>Data 5</b>	Tens digit of the minutes	
<b>Data 6</b>	Ones digit of the minutes	
<b>Data 7</b>	Thousands digit of the minutes	
<b>Data 8</b>	Hundreds digit of the minutes	
<b>Data 9</b>	Tens digit of the seconds	
<b>Data 10</b>	Ones digit of the seconds	
<b>Data 11</b>	Tens digit of the frame	
<b>Data 12</b>	Ones digit of the frame	

**•CURRENT TRACK TIME RETURN**

CURRENT TRACK TIME RETURN is sent in response to the CURRENT TRACK TIME SENSE command [58] to show the selected time information about the current track.

Command                    D8  
 Data                        10 bytes  
 Request command        CURRENT TRACK TIME SENSE [58]

		Description	Remarks
<b>(Data 1, Data 2)</b>	00	Elapsed time	
	10	Track remaining time	
	03	Total remaining time on the disc	
<b>Data 3</b>	--	Tens digit of the minutes	
<b>Data 4</b>	--	Ones digit of the minutes	
<b>Data 5</b>	--	Thousands digit of the minutes	
<b>Data 6</b>	--	Hundreds digit of the minutes	
<b>Data 7</b>	--	Tens digit of the seconds	
<b>Data 8</b>	--	Ones digit of the seconds	
<b>Data 9</b>	--	Tens digit of the frame	
<b>Data10</b>	--	Ones digit of the frame	

**•TOTAL TRACK No./TOTAL TIME RETURN**

TOTAL TRACK No./TOTAL TIME RETURN is sent in response to the TOTAL TRACK No./TOTAL TIME SENSE command [5D] to show the total number of tracks on a disc and the total running time of the disc in the controlled device.

Command                    DD  
 Data                        12 bytes  
 Request command        TOTAL TRACK No./TOTAL TIME SENSE [5D]

	Description	Remarks
<b>Data 1</b>	Tens digit of the total number of tracks	
<b>Data 2</b>	Ones digit of the total number of tracks	
<b>Data 3</b>	Thousands digit of the total number of tracks	
<b>Data 4</b>	Hundreds digit of the total number of tracks	
<b>Data 5</b>	Tens digit of the minutes	
<b>Data 6</b>	Ones digit of the minutes	
<b>Data 7</b>	Thousands digit of the minutes	
<b>Data 8</b>	Hundreds digit of the minutes	
<b>Data 9</b>	Tens digit of the seconds	
<b>Data10</b>	Ones digit of the seconds	
<b>Data11</b>	Tens digit of the total number of frames of all tracks	
<b>Data12</b>	Ones digit of the total number of frames of all tracks	

**•PGM TOTAL TRACK No./TOTAL TIME RETURN**

PGM TOTAL TRACK No./TOTAL TIME RETURN is sent in response to the PGM TOTAL TRACK No./TOTAL TIME SENSE command [5E] to show the total number and the total running time of the programmed tracks.

Command DE  
 Data 12 bytes  
 Request command PGM TOTAL TRACK No./TOTAL TIME SENSE [5E]

	Description	Remarks
<b>Data 1</b>	Tens digit of the total number of tracks	
<b>Data 2</b>	Ones digit of the total number of tracks	
<b>Data 3</b>	Thousands digit of the total number of tracks	
<b>Data 4</b>	Hundreds digit of the total number of tracks	
<b>Data 5</b>	Tens digit of the minutes	
<b>Data 6</b>	Ones digit of the minutes	
<b>Data 7</b>	Thousands digit of the minutes	
<b>Data 8</b>	Hundreds digit of the minutes	
<b>Data 9</b>	Tens digit of the seconds	
<b>Data10</b>	Ones digit of the seconds	
<b>Data11</b>	Tens digit of the frame	
<b>Data12</b>	Ones digit of the frame	

**•ERROR SENSE REQUEST**

ERROR SENSE REQUEST is sent from the controlled device to the external controller to show that the controlled device is in an error state. If the command is sent, the external controller issues the ERROR SENSE command [78]. Be sure to determine the error by using the ERROR SENSE command.

Command F0  
 Data None  
 Request command None

**•ILLEGAL STATUS**

ILLEGAL STATUS is sent from the controlled device to the external controller to show that an invalid command or data has been sent to the controlled device. If the command is sent, send a command or data again, making sure that it is a valid command or data.

Command F2  
 Data None  
 Request command None

**•POWER ON STATUS**

POWER ON STATUS is sent from the controlled device to the external controller to show that the controlled device has been turned on.

Command F4  
 Data None  
 Request command None

**•CHANGE STATUS**

CHANGE STATUS is sent from the controlled device to the external controller to show that the controlled device has switched from one state to another.

Command                      F6  
 Data                              2 bytes  
 Request command              None

Data 1	Data 2	Description	Remarks
0	0	Mechanism status change	The status of the specified mechanism has been changed.
0	3	Track and EOM status changes	The controlled device has moved from one track to another or the EOM status has been changed.

**•ERROR SENSE RETURN**

ERROR SENSE RETURN is sent in response to the ERROR SENSE command [78].

Command                      F8  
 Data                              4 bytes  
 Request command              ERROR SENSE [78]

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	--	N1	Preset %	Read N1, --, N2, and N3, in this order. Example) 0101 --> ERROR CODE 1-01

List of error codes

ERROR	Internal error code	Description	RS-232C error code
<b>ERR01</b>	1	TOC read error	1-10
<b>ERR09</b>	9	Flash ROM error	1-09
<b>ERR10</b>	10	SDRAM check error	1-10
<b>ERR13</b>	13	System error	1-13

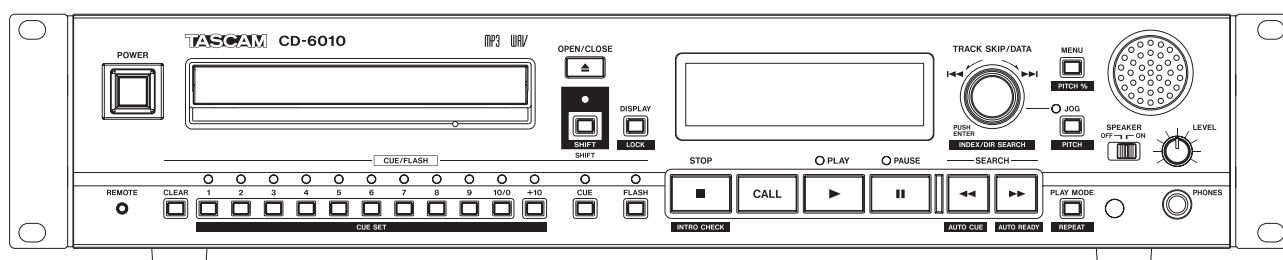
# TASCAM

D01168583A

# CD-6010

## Reproductor de CD

### MANUAL DE INSTRUCCIONES



# INSTRUCCIONES IMPORTANTES DE SEGURIDAD



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**PRECAUCIÓN:** PARA REDUCIR EL RIESGO DE DESCARGAS ELÉCTRICAS, NO quite la carcasa (ni la tapa trasera). DENTRO DE LA UNIDAD NO HAY PIEZAS SUSCEPTIBLES DE SER REPARADAS POR EL USUARIO. CONSULTE CUALQUIER REPARACIÓN SOLO CON EL SERVICIO TÉCNICO OFICIAL.



El símbolo de un rayo dentro de un triángulo equilátero se usa internacionalmente para advertir al usuario de la presencia de "voltajes peligrosos" no aislados dentro de la carcasa del aparato que pueden ser de magnitud suficiente para constituir un riesgo real de descarga eléctrica para las personas.



El símbolo de exclamación dentro de un triángulo equilátero se utiliza para advertir al usuario de la existencia de instrucciones de uso y mantenimiento (reparaciones) importantes en los documentos que acompañan a la unidad.

**CUIDADO: PARA EVITAR EL RIESGO DE INCENDIOS O DESCARGAS ELÉCTRICAS, NO EXPONGA ESTE APARATO A LA LLUVIA O LA HUMEDAD.**

- 1 Lea estas instrucciones.
- 2 Conserve estas instrucciones.
- 3 Cumpla con lo indicado en los avisos.
- 4 Siga todas las instrucciones.
- 5 No utilice este aparato cerca del agua.
- 6 Límpielo solo con un trapo seco.
- 7 No bloquee ninguna de las ranuras de ventilación. Instale este aparato de acuerdo con las instrucciones del fabricante.
- 8 No instale este aparato cerca de fuentes de calor como radiadores, calentadores, hornos u otros aparatos (incluyendo amplificadores) que produzcan calor.
- 9 No elimine el sistema de seguridad que supone el enchufe polarizado o con toma de tierra. Un enchufe polarizado tiene dos bornes, uno más ancho que el otro. Uno con toma de tierra tiene dos bornes iguales y una tercera lámina para la conexión a tierra. El borne ancho o la lámina se incluyen para su seguridad. Si el enchufe que venga con la unidad no encaja en su salida de corriente, haga que un electricista cambie su salida anticuada.
- 10 Evite que el cable de corriente quede de forma que pueda ser pisado o quedar retorcido o aplastado, especialmente en los enchufes, receptáculos o en el punto en el que salen del aparato.
- 11 Use solo accesorios / complementos especificados por el fabricante.

- 12 Utilice este aparato solo con un soporte, trípode o bastidor especificado por el fabricante o que se venda con el propio aparato. Cuando utilice un bastidor con ruedas, tenga cuidado al mover la combinación de aparato/bastidor para evitar que vuelque y puedan producirse daños.



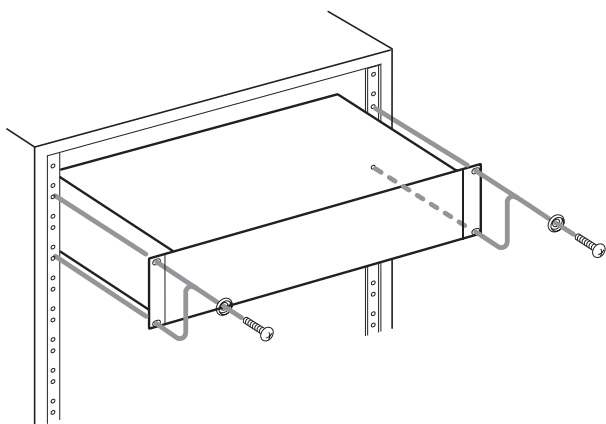
- 13 Desconecte este aparato de la corriente durante las tormentas eléctricas o cuando no lo vaya a usar durante un periodo de tiempo largo.
  - 14 Dirija cualquier posible reparación solo al servicio técnico oficial. Este aparato deberá ser reparado si se ha dañado de alguna forma, como por ejemplo si el cable de corriente o el enchufe están rotos, si ha sido derramado algún líquido sobre la unidad o algún objeto ha sido introducido en ella, si el aparato ha quedado expuesto a la lluvia o la humedad, si no funciona normalmente o si se le ha caído al suelo en algún momento.
- No permita que este aparato quede expuesto a salpicaduras de ningún tipo.
  - No coloque objetos que contengan líquidos, como jarrones, encima de este aparato.
  - No instale este aparato encastrado en una librería o mueble similar.
  - Este aparato recibe corriente nominal no operativa de la salida de corriente AC aun cuando su interruptor POWER o STANDBY/ON no esté en la posición ON.
  - El aparato debe estar colocado lo suficientemente cerca de la salida de corriente como para poder acceder al enchufe en cualquier momento.
  - El enchufe de alimentación sirve como dispositivo de desconexión, por lo que colóquelo de forma que siempre pueda acceder a él fácilmente.
  - Los dispositivos de clase I están equipados con un cable de alimentación con enchufe con toma de tierra. Conecte este enchufe únicamente a una salida de corriente que disponga de toma de tierra de seguridad.
  - Si este aparato utiliza pilas (incluyendo baterías fijas o recambiables), no permita que queden expuestas a la luz solar, fuego o un nivel excesivo de calor.
  - ATENCIÓN con los productos que utilicen baterías de litio recambiables: existe el riesgo de explosión en caso de sustituir la batería por otra de un tipo incorrecto. Sustitúyala solo por una idéntica o de tipo equivalente.
  - Tenga cuidado al usar auriculares con este producto dado que una presión sonora excesiva (volumen) en los auriculares puede producirle daños auditivos.

En Norteamérica utilice únicamente fuentes de alimentación de 120 V.

## ■ MONTAJE EN RACK DE LA UNIDAD

Utilice el kit de montaje en rack para instalar esta unidad en un rack standard de 19 pulgadas, tal como le mostramos en la imagen de abajo.

Antes de ello, quite las patas de la unidad.



### NOTA

- Deje un espacio de 1U encima de ella y 10 cm (4 pulgadas) o más de espacio libre en la parte trasera para su correcta ventilación.

## ■ Para EE.UU.

### PARA EL USUARIO

Se ha verificado que este aparato cumple con los límites establecidos para las unidades digitales de clase A, de acuerdo a lo indicado en la sección 15 de las normas FCC. Esos límites han sido diseñados para ofrecer una protección razonable contra las interferencias molestas en una instalación no profesional. Este aparato genera, usa y puede irradiar energía de radiofrecuencias y, si no es instalado y usado de acuerdo a este manual de instrucciones, puede producir interferencias molestas en las comunicaciones de radio.

El uso de este aparato en una zona residencial puede dar lugar a interferencias molestas, en cuyo caso el usuario será el responsable de corregirlas bajo su única responsabilidad.

### PRECAUCIÓN

Cualquier cambio o modificación en este aparato no aprobado expresamente y por escrito por TEAC CORPORATION podrá anular la autorización del usuario a usar dicho aparato.

## ■ Para los usuarios europeos

### Información de la indicación CE

- a) Entorno electromagnético aplicable: E4
- b) Pico de corriente: 14 A

### Eliminación de aparatos eléctricos y electrónicos

- (a) Nunca debe eliminar un aparato eléctrico o electrónico junto con el resto de la basura orgánica. Este tipo de aparatos deben ser depositados en los "puntos limpios" creados a tal efecto por su Ayuntamiento o por la empresa de limpieza local.
- (b) Con la correcta eliminación de los aparatos eléctricos y electrónicos estará ayudando a ahorrar valiosos recursos y evitará a la vez todos los efectos negativos potenciales tanto para la salud como para el entorno.

- (c) Una eliminación incorrecta de este tipo de aparatos junto con la basura orgánica puede producir efectos graves en el medio ambiente y en la salud a causa de la presencia de sustancias potencialmente peligrosas que pueden contener.
- (d) El símbolo del cubo de basura tachado indica la obligación de separar los aparatos eléctricos y electrónicos del resto de basura orgánica a la hora de eliminarlos.



- (e) Los llamados "puntos limpios" de recogida y retirada selectiva de este tipo de productos están disponibles para cualquier usuario final. Para más información acerca de la eliminación de este tipo de elementos, póngase en contacto con el departamento correspondiente de su Ayuntamiento, empresa de limpieza o recogida de basuras o con el comercio en el que adquirió este aparato.

### Eliminación de pilas y/o acumuladores

- (a) Nunca debe eliminar pilas y/o acumuladores junto con el resto de la basura orgánica. Este tipo de elementos deben ser depositados en los "puntos limpios" creados a tal efecto por su Ayuntamiento o por la empresa de limpieza local.
- (b) Con la correcta eliminación de las pilas y/o acumuladores estará ayudando a ahorrar valiosos recursos y evitará a la vez todos los efectos negativos potenciales tanto para la salud como para el entorno.
- (c) Una eliminación incorrecta de las pilas y/o acumuladores junto con la basura orgánica puede producir efectos graves en el medio ambiente y en la salud a causa de la presencia de sustancias potencialmente peligrosas que pueden contener.
- (d) El símbolo del cubo de basura tachado indica la obligación de separar las pilas y/o acumuladores del resto de basura orgánica a la hora de eliminarlas.



Pb, Hg, Cd

Si la batería o acumulador contiene una cantidad superior de plomo (Pb), mercurio (Hg) y/o cadmio (Cd) que los valores especificados en la Directiva de pilas y baterías (2006/66/EC), aparecerán los símbolos de estas sustancias químicas (Pb, Hg y/o Cd) debajo del símbolo del cubo de basura tachado.

- (e) Los llamados "puntos limpios" de recogida y retirada selectiva de las pilas y/o acumuladores están disponibles para cualquier usuario final. Para más información acerca de la eliminación de pilas y/o acumuladores, póngase en contacto con el departamento correspondiente de su Ayuntamiento, empresa de limpieza o recogida de basuras o con el comercio en el que las adquirió.

### ATENCIÓN

Este es un producto de clase A. En un entorno no profesional, este aparato puede producir interferencias de radio, en cuyo caso el usuario será el responsable de tratar de solucionarlo aplicando las medidas necesarias.

# Información de seguridad

## ■ PRECAUCIONES RELATIVAS A LAS PILAS

Este aparato utiliza pilas. Un mal uso de las mismas puede dar lugar a fugas, roturas y otros problemas. Tenga en cuenta siempre las precauciones siguientes al usar este tipo de pilas.

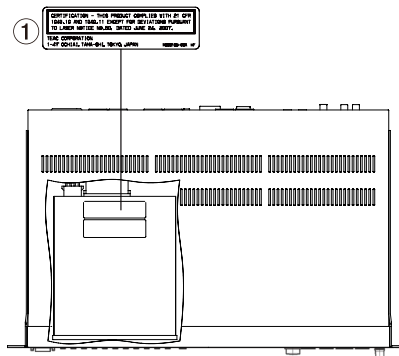
- Nunca trate de recargar pilas no recargables. Las pilas podrían romperse o tener fugas, dando lugar a daños.
- A la hora de instalar la pilas, ponga mucha atención a las indicaciones de polaridad (símbolos (+/-) más/menos) e instálelas correctamente dentro del compartimento para las pilas siguiendo las indicaciones. El colocar las pilas al revés puede dar lugar a roturas o fugas en las pilas, lo que podría producir averías, incendios o daños.
- A la hora de guardar o eliminar pilas, aisle sus terminales con cinta aislante o similar para evitar que entren en contacto con otras pilas u objetos metálicos.
- A la hora de deshacerse de las pilas, siga las instrucciones de eliminación indicadas en las propias pilas o que estén en vigor en su ciudad.
- Nunca use tipos de pilas distintas a las indicadas. Nunca mezcle distintos tipos de pilas ni utilice pilas antiguas y nuevas. El hacer esto podría dar lugar a roturas o fugas en las pilas, produciendo incendios o daños.
- No transporte ni almacene las pilas junto con otros objetos metálicos pequeños. El hacer esto podría dar lugar a roturas o fugas en las pilas, produciendo incendios o daños.
- No caliente ni trate de desmontar las pilas. Nunca arroje las pilas al fuego ni dentro del agua. El hacer esto podría dar lugar a roturas o fugas en las pilas, produciendo incendios o daños.
- En caso de una fuga del fluido interno de la pila, limpie los restos del mismo del compartimento de las pilas antes de introducir una nuevas. El contacto del fluido de la pila con los ojos puede dar lugar a daños o pérdida de visión. Si le cae este fluido en los ojos, lávelos inmediatamente con agua abundante. No se frote los ojos al lavarlos. Después de lavarlos, acuda tan pronto como pueda a un médico. El contacto del fluido de la pila con su piel o ropa puede dar lugar a daños o quemaduras. Al igual que antes, lave con agua inmediatamente la zona afectada y acuda al médico.
- Este aparato debe estar apagado a la hora de instalar o sustituir las pilas.
- Extraiga las pilas si no piensa utilizar este aparato durante un periodo de tiempo largo. El no hacerlo puede producir fugas o roturas en las pilas, lo que podría dar lugar a un incendio o daños. Si se llega a producir una fuga del fluido interno de la pila, limpie los restos del mismo del compartimento de las pilas antes de introducir una nueva.
- Nunca despiece una pila. El ácido que contiene puede dañar la piel y la ropa.

## ■ PRECAUCIONES RELATIVAS A LA RADIACIÓN LÁSER

Este aparato ha sido diseñado y fabricado de acuerdo a las normas FDA "sección 21, CFR, capítulo 1, subcapítulo J, basadas en el Acta de Control de las radiaciones para la salud y seguridad de 1968", y ha sido clasificado como una unidad láser de clase 1. Durante el funcionamiento de esta

unidad no hay riesgo de radiaciones de láser invisibles peligrosas dado que la radiación láser invisible emitida dentro de este producto está completamente confinada en recintos de protección.

La etiqueta necesaria para cumplir con estas Normas se muestra en ①.



### Precauciones:

- NUNCA ABRA LOS RECINTOS DE PROTECCIÓN USANDO UN DESTORNILLADOR.
- EL USO DE CONTROLES O AJUSTES O LA REALIZACIÓN DE PROCEDIMIENTOS DIFERENTES A LOS ESPECIFICADOS EN ESTE MANUAL PUEDEN DAR LUGAR A UNA EXPOSICIÓN A RADIACIONES PELIGROSAS.
- SI ESTE APARATO DA MUESTRAS DE FUNCIONAR MAL, CONTACTE CON EL SERVICIO TÉCNICO Y NO SIGA USANDO EL APARATO MIENTRAS NO HAYA SIDO REVISADO.

### Cabezal óptico

Tipo	: HOF-1501XB
Fabricante	: Hitachi Media Electronics
Salida láser	: Inferior a 0.5 mW en el objetivo de la lente
Longitud de onda	: 785 nm ±22 nm
Standard	: IEC60825-1 : 2007

Este aparato tiene un número de serie en su panel inferior. Anote aquí dicho número para cualquier posible consulta o reparación en el futuro.

Modelo \_\_\_\_\_

Número de serie \_\_\_\_\_

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Felicidades y gracias por su compra del reproductor de CD TASCAM CD-6010.

Antes de empezar a utilizar esta unidad, lea detenidamente este manual para saber cómo configurar y conectar esta unidad correctamente y cómo utilizar sus funciones. Una vez que lo haya leído, conserve este manual a mano para cualquier consulta en el futuro.

También puede descargar el manual de instrucciones desde la página web de TASCAM (<http://tascam.com/>).

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## Características

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- Memoria anti-shock que evita posibles saltos producidos por vibraciones, por ejemplo
- $\pm 16\%$  de control de tono
- Puede reproducir CDs audio normales y CD-R, incluyendo ficheros en formatos MP3 y WAV
- Escucha "cue" con precisión de una secuencia
- Conector de control en paralelo
- Cuando es usado el conector paralelo, es posible ajustar el modo de transporte, incluyendo el disparo por fader e inicio de eventos, así como los modos de inicio flash e inicio directo
- Puede usar la toma serie RS-232C para la conexión de un ordenador o controlador externo para la gestión de la unidad
- Una memoria de programas puede almacenar información de puntos cue de hasta 100 discos
- Función de reproducción consecutiva
- La función Auto-ready permite activar de forma automática la pausa al principio de la pista siguiente una vez que termine la reproducción de la anterior
- La función Auto-cue permite dejar en espera la unidad para que comience la reproducción de una pista desde el momento en que comience el sonido
- El sistema de transporte y el tono pueden ser controlados a través de la pedalera TASCAM RC-3F (opcional)
- Permite el inicio directo y el arranque flash a través de unidades opcionales RC-SS20 (conector paralelo) y RC-20 (conector remoto)
- La función de inicio flash permite la reproducción sin retardo (hasta 20 pistas: pistas 1–20, las 20 primeras pistas del programa o los 20 primeros puntos cue)
- Puede usar botones numéricos en el panel frontal para elegir las pistas, cargar puntos cue y para la función de arranque flash
- La función Skip back le permite retroceder unos pocos segundos (cantidad ajustable) durante la reproducción
- Se incluye el mando a distancia inalámbrico TASCAM RC-500 (puede desactivarlo por medio de un ajuste en la unidad principal)
- La separación entre las pistas durante la reproducción puede ser ajustada
- Puede modificar el nivel de la salida balanceada a través de un ajuste interno (contacte con el departamento de atención al cliente)
- Función de atenuación de salida analógica
- Puede bloquear los botones del panel para evitar su uso de forma accidental
- Puede usar la función Eject block para evitar la expulsión accidental de los discos durante la reproducción o pausa
- Unidad con bandeja de carga de alto rendimiento
- Salidas no balanceadas en RCA
- Salida digital coaxial
- Salidas balanceadas XLR
- Salida digital XLR
- Es posible la salida monofónica
- Los modos de reproducción incluyen: todas las pistas (ALL), una sola pista (SINGLE), programa (hasta 100 pistas) y aleatorio
- Función de repetición para todos los modos de reproducción y bucle de intervalo A-B
- Puede configurar la pantalla para que le indique el tiempo de pista transcurrido, el tiempo de pista restante o el tiempo restante de disco
- Puede usar la función CALL para volver al último punto en el que puso en marcha la reproducción
- Función Intro check
- Puede ajustar fundidos de entrada y salida en un rango de 0 a 10 segundos en intervalos de 0,5 segundos
- Es posible la reproducción automática al encender la unidad
- Es posible la reproducción con relé usando varias unidades
- Funciones de búsqueda de índices (solo CD audio (CD-DA)) y de búsqueda de directorio (solo discos con ficheros MP3 o WAV)
- La función Resume memoriza el último punto en el que fue detenida la reproducción
- Admite indicación EOM que le muestra el final de una pista
- Funciones de monitorización en el panel frontal incluyen una clavija de auriculares, un altavoz con un interruptor ON/OFF y un mando de nivel

# 1 – Introducción

## Elementos incluidos

Dentro del embalaje encontrará los siguientes elementos.

Tenga cuidado de no dañar estos objetos al abrir el embalaje. Conserve el embalaje y las protecciones por si alguna vez necesita transportar el aparato.

Póngase en contacto con su distribuidor si echa en falta alguno de estos elementos o si observa que alguno de ellos ha resultado dañado durante el transporte.

- Unidad principal..... 1
- Cable de alimentación ..... 1
- Mando a distancia inalámbrico (TASCAM RC-500) ..... 1
- Pilas AAA para el mando a distancia..... 2
- Kit de tornillos para montaje en rack..... 1
- Tarjeta de garantía..... 1
- Manual de instrucciones (este documento)..... 1

## Acerca de este manual

En este manual utilizamos los siguientes convencionalismos:

- Los nombres de los botones y controles vienen en este formato: **SHIFT**.
- Los mensajes en pantalla aparecerán en el siguiente formato: **ON**
- El formato CD-DA también puede aparecer como formato "CD audio".
- Los CDs que contengan ficheros audio MP3 o WAV aparecen a veces como "CDs de datos".
- Además también encontrará información adicional en los siguientes formatos:

### NOTA

*Explicaciones sobre actuaciones para casos concretos así como información complementaria.*

### CUIDADO

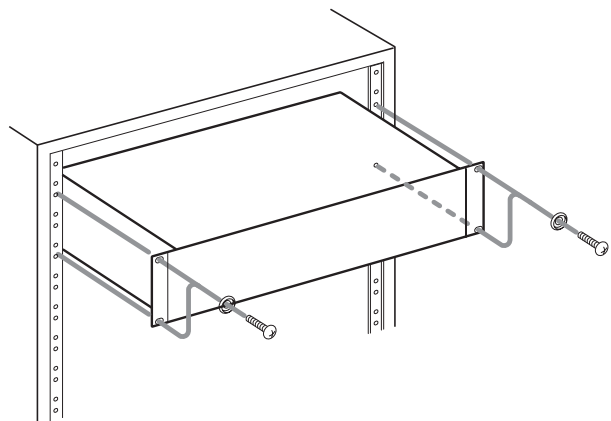
*Son instrucciones que debe seguir para evitar dañar la unidad u otros equipos y que puedan perderse datos.*

## Derechos de propiedad intelectual

- TASCAM is a trademark of TEAC Corporation, registered in the U.S. and other countries.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

## Precauciones relativas a la colocación y uso

- El rango de temperaturas seguro para el uso de este aparato es entre 5° y 35° C (41° y 95° F).
- Para evitar degradar la calidad del sonido o que se produzcan averías, no instale la unidad en los siguientes tipos de lugares.
  - Lugares sujetos a fuertes vibraciones o inestables
  - Cerca de ventanas o expuestos a la luz solar directa
  - Cerca de radiadores o en lugares extremadamente calurosos
  - Lugares demasiado fríos
  - Sitios con mala ventilación o demasiado húmedos
  - Lugares polvorientos
- Esta unidad admite ser instalada con una inclinación máxima de  $\pm 15^\circ$ .
- Para permitir la correcta disipación del calor, no coloque otros aparatos encima de esta unidad.
- No coloque este aparato encima de una etapa de potencia o de otro aparato que genere mucho calor.
- Para montar esta unidad en un bastidor rack, utilice el kit de tornillos incluido y hágalo tal como le mostramos abajo. Deje al menos 1 U (5 cm) de espacio libre sobre la unidad.



## Conexión a la electricidad

- Introduzca completamente el cable de alimentación incluido en la toma **AC IN**.
- A la hora de conectar o desconectar este cable, sujételo siempre por el conectar (no tire del propio cable).

## Cuidado con la condensación

Si traslada la unidad de un lugar frío a uno cálido o si la usa después de un cambio fuerte de temperatura, puede producirse condensación de agua. Para evitar esto o si se produce la condensación, deje la unidad durante una o dos horas en la nueva ubicación antes de volver a encenderla.

---

## Limpieza de la unidad

---

Para limpiar la unidad, utilice un trapo suave y seco. No use gasolina, alcohol u otros productos similares ya que podría dañar su superficie.

---

## Acerca de los discos

---

Además de los CDs musicales habituales, esta unidad puede reproducir discos CD-R en los que hayan sido grabados ficheros en el formato de CD audio (CD-DA), así como discos CD-R en los que haya grabados ficheros audio MP3 y WAV.

---

## Manejo de los compact discs

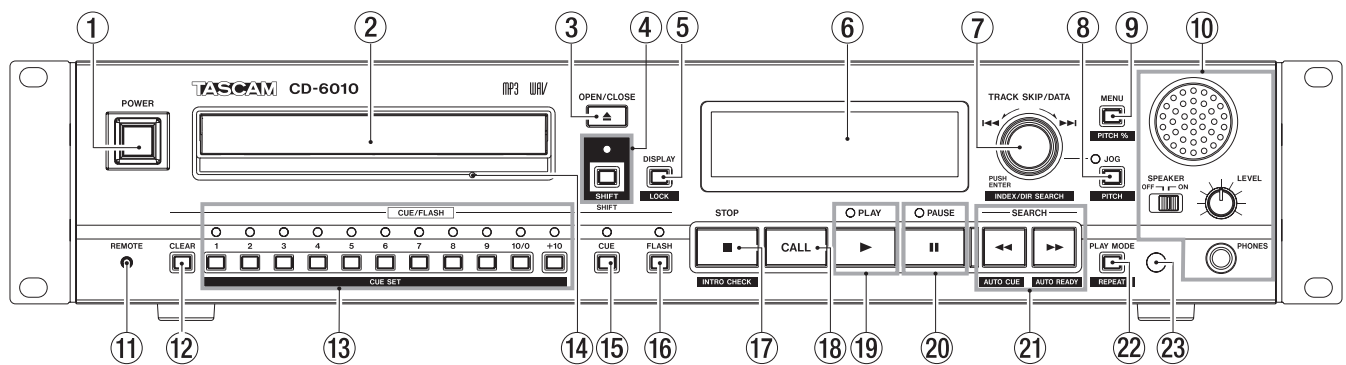
- Coloque siempre los discos en las bandejas con su etiqueta hacia arriba.
- Para sacar un disco de su caja, presione en el centro de la caja y tire del disco, sujetándolo con cuidado por los bordes.
- No toque la cara de la señal (la que no tiene la etiqueta). Las huellas dactilares, grasa u otras sustancias pueden producir errores durante la reproducción.
- En caso de que la cara de la señal esté sucia o haya huellas, use un trapo suave para eliminarlas, frotando con movimientos rectos de dentro hacia fuera. La suciedad puede hacer que disminuya la calidad del sonido, por lo que le recomendamos que los limpie y trate de conservarlos siempre limpios.
- No use limpiadores ni disolventes para limpiar los discos ya que pueden producir daños irreparables en la superficie del disco, haciendo incluso que resulten ilegibles.
- No les ponga etiquetas ni pegatinas a los discos. No introduzca discos en los que haya etiquetas u otras cintas, ni aunque solo queden restos de ellos o de los adhesivos. Eso podría hacer que se pegase al mecanismo interno y para despegarlo tendría que recurrir a un técnico.
- No utilice nunca estabilizadores comerciales de CD. Su uso puede producir problemas en la reproducción o incluso averías en la unidad.
- No utilice discos rotos.
- Use sólo discos circulares. Evite el uso de discos promocionales, etc. que no sean circulares.



- Algunas compañías de discos han sacado al mercado discos con control anticopia con el fin de proteger los derechos de autor. Dado que algunos de estos discos no cumplen las especificaciones requeridas para los CD, éstos no podrán ser reproducidos en esta unidad.

# 2 – Nombres y funciones de las partes

## Panel frontal



### ① Interruptor POWER

Sirve para encender y apagar la unidad.

#### **CUIDADO**

Antes de encender la unidad, reduzca al mínimo el volumen de los dispositivos conectados para evitar que puedan producirse ruidos fuertes que puedan ocasionarle daños auditivos u otros problemas.

### ② Bandeja de discos

Pulse el botón **OPEN/CLOSE** para abrir la bandeja de discos cuando quiera cargar o extraer un disco. Para cerrar la bandeja, pulse el botón **OPEN/CLOSE** de nuevo.

### ③ Botón OPEN/CLOSE

Púlselo para abrir y cerrar la bandeja de discos.

### ④ Botón e indicador SHIFT

Pulse este botón para activar el modo secundario. Cuando este modo esté activo, el indicador se iluminará y las funciones secundarias del resto de botones estarán activadas. (Estas funciones aparecen debajo de los botones marcadas en blanco sobre fondo azul). Tras pulsar uno de estos botones, el modo Shift será desactivado automáticamente y el indicador se apagará.

#### **NOTA**

- Cuando esté en este modo Shift, pulse el botón SHIFT de nuevo para salir del modo (y que se apague el indicador). Tras buscar carpetas/directorios, si el indicador SHIFT sigue iluminado, pulse el botón SHIFT para desactivarlo.
- También puede pulsar un botón con una función secundaria mientras mantiene pulsado el botón SHIFT para usar su función secundaria.

### ⑤ Botón DISPLAY [LOCK]

Pulse este botón cuando esté visualizando el tiempo de reproducción para cambiar el modo de indicación de ese tiempo (tiempo transcurrido de pista, tiempo restante de pista o tiempo restante total). (Vea "Cambio del modo de indicación de tiempo de reproducción" en pág. 32).

Cuando esté en el modo de menú, pulse este botón para salir de ese modo.

Cuando esté en el modo secundario (indicador SHIFT encendido), manténgalo pulsado para activar o desactivar la función de bloqueo de panel. Esto evitará que un botón pueda ser activado por accidente.

### ⑥ Pantalla

Le muestra diversos tipos de información.

### ⑦ Mando TRACK SKIP/DATA [INDEX/DIR SEARCH]

Este es un mando multifunción que actúa como dial y como un botón. Use este mando para ajustar elegir (saltar) pistas, elegir índices y directorios, ajustar el valor del control de tono, usar menús, ajustar el intervalo de repetición A-B y como dial jog, por ejemplo.

Para elegir un índice, gire este mando mientras esté en el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. Cuando esté usando un CD de datos, utilice esta función para elegir un directorio. Lo que ocurra después de la elección dependerá del ajuste de la función Auto cue. (Vea "Salto a la pista anterior o siguiente" en pág. 22).

En el modo de configuración del programa, use esta función para elegir las pistas.

Cuando esté en el modo de menú, gire este mando para elegir elementos y púlselo para confirmar su selección. (Vea "Conceptos básicos del funcionamiento del menú" en pág. 19).

En el modo de ajuste de tono, gire este mando para ajustar el valor de tono. (Vea "Control de tono de la reproducción" en pág. 27).

En el modo jog, use este mando como un dial jog para desplazarse de secuencia en secuencia. (Vea "Uso de la función jog para la búsqueda" en pág. 23).

Cuando use la función de repetición A-B, pulse este mando para ajustar los puntos A y B. (Vea "Reproducción repetida A-B" en pág. 26).

### ⑧ Botón JOG [PITCH]

Pulse este botón para iniciar el modo jog. (Vea "Uso de la función jog para la búsqueda" en pág. 23).

Para activar/desactivar la función de tono, pulse este botón durante el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. (Vea "Control de tono de la reproducción" en pág. 27).

## 2 – Nombres y funciones de las partes

### 9 Botón MENU [PITCH]

Pulse este botón para activar el modo de menú. Cuando esté en este modo, pulse este botón para salir de dicho modo. (Vea "Conceptos básicos del funcionamiento del menú" en pág. 19).

Para acceder al modo de ajuste de tono, pulse este botón mientras esté en el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. (Vea "Control de tono de la reproducción" en pág. 27).

### 10 Interruptor SPEAKER, ON/OFF, mando LEVEL y toma PHONES

Use el altavoz mono interno o unos auriculares stereo para monitorizar la señal de reproducción sin la necesidad de conectar unos altavoces.

Use el interruptor **SPEAKER** para activar o desactivar el altavoz interno.

Cuando tenga conectados unos auriculares, este altavoz estará desactivado, independientemente de la posición del interruptor **SPEAKER**.

Conecte unos auriculares stereo a la toma standard stereo **PHONES**.

Use el mando **LEVEL** para ajustar el nivel de salida del altavoz interno y de los auriculares.

#### CUIDADO

*Antes de conectar unos auriculares, coloque el mando LEVEL al mínimo. El no hacer esto puede dar lugar a la brusca aparición de un fuerte ruido, que puede producir daños auditivos, por ejemplo.*

### 11 Toma REMOTE (TRS 2.5 mm)

Use esta toma para conectar una pedalera TASCAM RC-3F o un control remoto de reproducción directa TASCAM RC-20 (opcionales). Use el control remoto para el arranque flash de la reproducción, por ejemplo.

### 12 Botón CLEAR

Pulse este botón para cancelar la entrada de un botón numérico.

Cuando esté activo el modo CUE, pulse un botón numérico mientras mantiene pulsado este botón para borrar el punto de escucha correspondiente.

En el menú de programa, manténgalo pulsado para borrar el programa.

### 13 Botones numéricos

Use estos botones numéricos para indicar números de pista para la selección de canciones. Introduzca dos dígitos para los CD audio y tres para los CD de datos. (Vea "Designación de números de pista" en pág. 22).

Cuando esté activo el modo CUE, use estos botones para añadir, cargar y eliminar puntos de escucha (hasta 20). (Vea "Función Cue o de escucha" en pág. 25).

Si está activa la función de arranque flash, use estos botones para hacerlo sobre pistas o puntos cue.

Use el botón **+10** para cambiar entre 1-10 y 11-20 para los números de programa de arranque flash, números de pista y números de escucha o cue.

### 14 Agujero de expulsión forzada

Si la bandeja no se abre correctamente, introduzca aquí la punta de un clip (por ejemplo) y pulse para forzar la apertura de la bandeja.

#### CUIDADO

*Apague siempre la unidad antes de usar esta opción.*

### 15 Botón CUE

Le permite activar/desactivar el modo de escucha.

### 16 Botón FLASH

Le permite activar/desactivar la función de arranque flash.

### 17 Botón ■ (parada) [INTRO CHECK]

Púlselo para detener la reproducción.

Si está activa la función de reproducción consecutiva, pulse este botón durante la reproducción para activar la pausa al principio de la pista siguiente.

Con la unidad parada, para activar el modo intro check, pulse este botón en el modo secundario (piloto **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. Cuando ese modo esté activo, pulse el botón ► (**reproducción**) para escuchar los 10 primeros segundos de cada pista de forma consecutiva. (Vea "Modo Intro check" en pág. 27).

### 18 Botón CALL

Pulse este botón para volver al último punto en el que puso en marcha la reproducción y hacer que la unidad quede en pausa.

### 19 Botón e indicador ► PLAY

Con la unidad parada, pulse este botón para ejecutar un arranque flash. (El indicador se ilumina durante la reproducción).

Con la unidad en pausa, pulse este botón para continuar con la reproducción.

Durante la reproducción, pulse este botón para volver al punto ajustado previamente. (Vea "Reproducción con salto atrás" en pág. 30).

### 20 Botón e indicador II (pausa)

Púlselo durante la reproducción para activar la pausa (el indicador se iluminará).

Cuando la función auto-cue esté activada, púlselo con la unidad parada para activar la pausa en el momento en que comience el sonido en la pista 1. Cuando ese modo no esté activo. Púlselo para activar la pausa al principio de la pista 1.

### 21 Botones SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY]

Durante la reproducción o en pausa, pulse el botón ◀◀ para realizar un rebobinado, y el botón ▶▶ para un avance rápido. (Vea "Uso de los botones SEARCH" en pág. 23).

En el modo de ajuste de programa, úselos para elegir el número de programa. (Vea "Reproducción programada" en pág. 28).

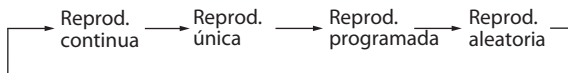
## 2 – Nombres y funciones de las partes

Para activar o desactivar la función auto-cue, pulse el botón ◀◀ durante el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. (Vea "Función Auto-cue" en pág. 24).

Para activar o desactivar el modo auto-ready, pulse el botón ▶▶ durante el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. (Vea "Función Auto-ready" en pág. 24).

### 22 Botón PLAY MODE [REPEAT]

Pulse este botón para cambiar el modo de reproducción en este orden. (Vea "Modos de reproducción" en pág. 23).



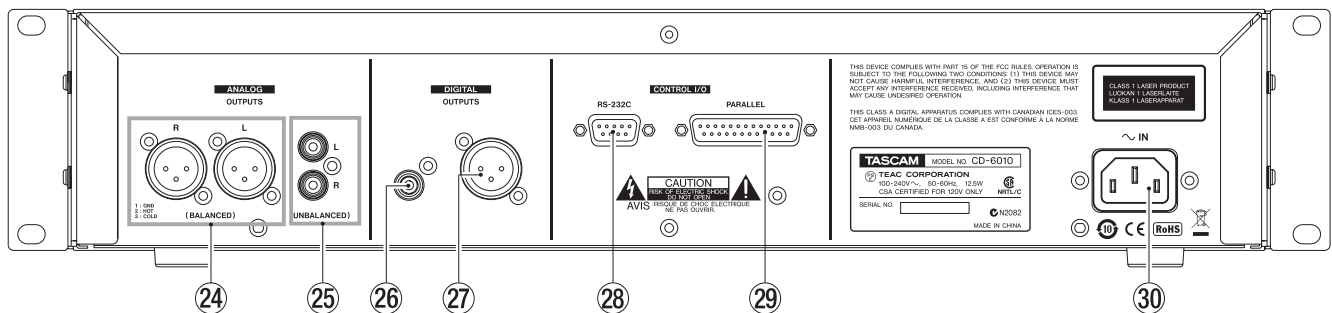
Para activar o desactivar la reproducción repetida, pulse este botón durante el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**.

Con la unidad en reproducción o pausa, para activar el modo de repetición A-B, mantenga pulsado este botón durante al menos 1 segundo en el modo secundario (indicador **SHIFT** encendido) o mientras pulsa el botón **SHIFT**. (Vea "Reproducción repetida A-B" en pág. 26).

### 23 Sensor del mando a distancia

Recibe las señales del mando a distancia inalámbrico incluido TASCAM RC-500. Apunte el mando a distancia hacia aquí cuando lo utilice.

## Panel trasero



### 24 Tomas ANALOG OUTPUTS (BALANCED)

Salidas analógicas para la señal de reproducción del CD. El nivel de salida máximo es de +24 dBu. (1: masa, 2: activo, 3: pasivo)

#### NOTA

*El nivel de salida máximo de las salidas analógicas balanceadas puede ser modificado internamente. Póngase en contacto con nuestro departamento de atención al cliente para más detalles sobre ello.*

### 25 Tomas ANALOG OUTPUTS (UNBALANCED)

Salidas analógicas para la señal de reproducción del CD. El nivel de salida máximo es de +6 dBV.

### 26 Conector DIGITAL OUTPUTS (COAXIAL)

Esto da salida a la señal de reproducción del CD en formato digital S/PDIF o AES/EBU. Ajuste el formato de salida usando el elemento de menú 22 D-OUT. (Vea "Ajuste del formato de salida digital" en pág. 35).

#### NOTA

- Durante la reproducción de ficheros MP3 o WAV, la frecuencia de muestreo de las salidas digitales de esta unidad será de 44.1 kHz.
- Cuando use la función de control de tono durante la reproducción de un CD audio u otro disco con ficheros MP3 o WAV, la salida digital estará a una frecuencia de muestreo fija de 44.1 kHz.

### 27 Conector DIGITAL OUTPUTS (XLR)

Esto da salida a la señal de reproducción del CD en formato digital S/PDIF o AES/EBU. Ajuste el formato de salida usando el elemento de menú 22 D-OUT. (Vea "Ajuste del formato de salida digital" en pág. 35).

### 28 Conector CONTROL I/O RS-232C

Conector de control serie RS-232C en sub D de 9 puntas. Conecte aquí un controlador externo, por ejemplo. (Vea "Uso del conector RS-232C" en pág. 34).

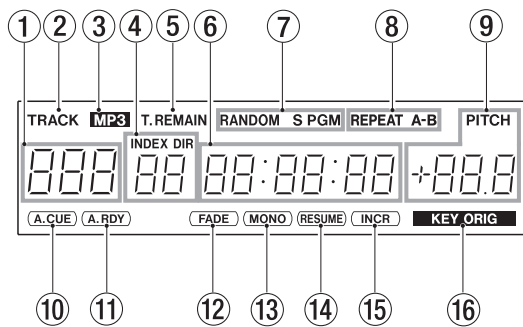
### 29 Conector CONTROL I/O PARALLEL

Este es un conector de control paralelo en sub D de 25 puntas. Uselo para la conexión de un controlador externo, por ejemplo. (Vea "Reproducción por relé" en pág. 31, "Inicio y parada por fader" en pág. 34 y "Uso del conector paralelo" en pág. 35).

### 30 Conector AC IN

Conecte aquí el cable de alimentación incluido.

### Pantalla



#### ① Número de pista

Le muestra el número de pista durante la reproducción y la selección de pistas.

Cuando tenga cargado un CD audio, aparecerá un número de pista de dos dígitos. Cuando tenga un CD de datos, verá un número de tres dígitos.

Cuando esté en el modo de menú, aquí verá el número del menú.

#### ② Indicador TRACK

Esto aparece cuando cargue un disco que contenga ficheros que puedan ser reproducidos en esta unidad.

#### ③ Indicador MP3

Esto aparece cuando cargue un CD de datos.

#### ④ Número INDEX DIR

Durante la reproducción y selección, aquí podrá ver el número de índice (CD audio) o el número de directorio (CD de datos).

#### ⑤ Indicador del modo de indicación de tiempo de reproducción

Cuando la pantalla de tiempos muestre el tiempo de reproducción, aparecerá lo siguiente dependiendo del modo de indicación elegido. (Vea "Cambio del modo de indicación de tiempo de reproducción" en pág. 32).

- Cuando haya ajustado el modo al de tiempo restante, aparecerá T.REMAIN.
- En el modo de tiempo restante de pista, aparecerá la indicación REMAIN.
- En el modo de tiempo transcurrido de pista, aquí no aparecerá nada. De la misma forma, tampoco aparecerá nada cuando esté en el modo de menú o en el de ajuste de programa.

#### ⑥ Pantalla de tiempo

Le muestra el tiempo de la posición de reproducción activa.

Cuando esté en el modo de menú, aquí aparecerá el elemento de menú. En ese caso, las letras serán mostradas en el siguiente formato.

```

ABCDEFGHIJKLM NOPQRSTUVWXYZcginor
AbCdEfGhIjKlMnOpPqRStUvWxYz9.inor
    
```

#### ⑦ Indicadores de modo de reproducción

Le mostrarán el modo de reproducción activo.

- Modo normal (todas las pistas): No aparece nada aquí
- Reproducción única: Aparece S
- Modo de reproducción programada: Aparece PGM
- Reproducción aleatoria: Aparece RANDOM

#### ⑧ Indicadores de modo de repetición

Le muestra el modo de repetición elegido. (Vea "Reproducción repetida" en pág. 26 y "Reproducción repetida A-B" en pág. 26).

- Modo de repetición: aparece REPEAT
- Repetición A-B: aparece REPEAT y A-B

(Antes de que haya ajustado los puntos A y B, el indicador que aparece aquí varía dependiendo del estado. Para más detalles, vea "Reproducción repetida A-B" en pág. 26).

#### ⑨ Indicador PITCH (y ajuste de tono)

Cuando la función de control de tono esté en ON, aparecerá PITCH junto con la cantidad de cambio de velocidad. (Vea "Control de tono de la reproducción" en pág. 27).

Cuando esté en el modo de menú, aquí podrá ver el valor de ajuste del elemento de menú.

#### ⑩ Indicador A.CUE (Auto-cue)

Cuando esté activa la función Auto-cue, aparecerá AUTO CUE. (Vea "Función Auto-cue" en pág. 24).

#### ⑪ Indicador A.RDY (Auto-ready)

Cuando esté activa la función Auto-ready, aparecerá A.RDY. (Vea "Función Auto-ready" en pág. 24).

#### ⑫ Indicador FADE

Cuando esté activa la función de fundido de entrada/salida, aparecerá FADE. (Vea "Fundido de entrada/salida de reproducción" en pág. 30).

#### ⑬ Indicador MONO

Cuando esté activa la función de salida mono, aparecerá MONO. (Vea "Salida en mono" en pág. 33).

#### ⑭ Indicador RESUME

Cuando esté activa la función de continuación, verá RESUME. (Vea "Función Resume" en pág. 24).

#### ⑮ Indicador INCR (reproducción consecutiva)

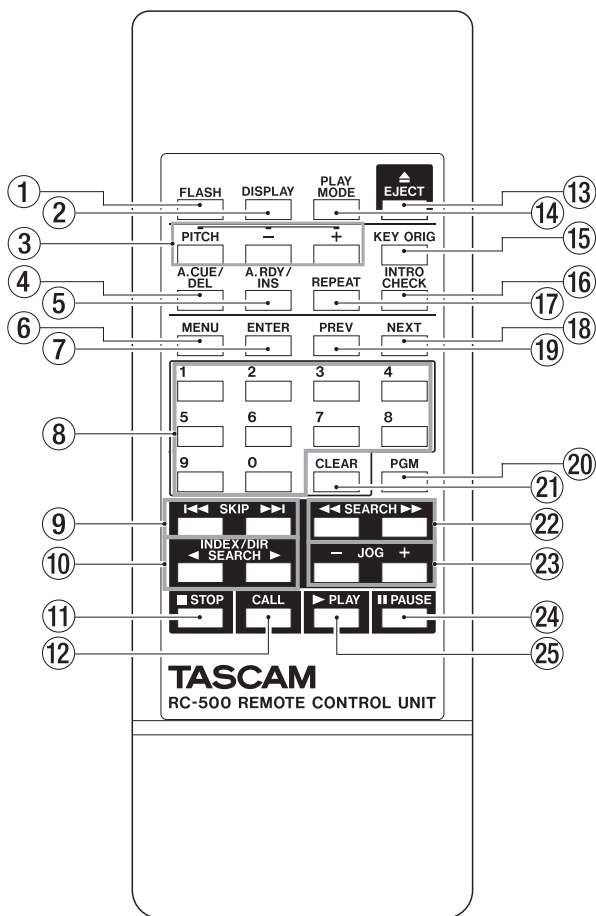
Cuando esté activa la reproducción consecutiva, aparecerá INCR. (Vea "Función de reproducción consecutiva" en pág. 25).

#### ⑯ Indicador KEY ORIG (clave original)

Cuando esté activa la función de clave original, aparecerá KEY ORIG. (Vea "Cambio de la velocidad de reproducción sin cambiar el tono (KEY ORIG)" en pág. 28).

## 2 – Nombres y funciones de las partes

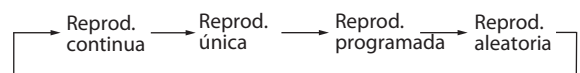
### Control remoto inalámbrico (TASCAM RC-500)



- ① **Botón FLASH**  
Púselo para activar o desactivar la función de arranque flash.
- ② **Botón DISPLAY**  
Pulse este botón para cambiar el modo de indicación de tiempo de reproducción (tiempo transcurrido de pista, tiempo restante de pista o restante total). (Vea "Cambio del modo de indicación de tiempo de reproducción" en pág. 32).  
Cuando esté en el modo de menú, pulse este botón para salir de ese modo.
- ③ **Botones PITCH y -/+**  
Pulse el botón **PITCH** para activar o desactivar la función de control de tono. Use los botones - y + para ajustar el valor del control de tono. (Vea "Control de tono de la reproducción" en pág. 27).
- ④ **Botón A.CUE/DEL**  
Púselo para activar o desactivar la función Auto-cue. (Vea "Función Auto-cue" en pág. 24).  
Úselo también para eliminar pistas del programa. (Vea "Reproducción programada" en pág. 28).
- ⑤ **Botón A.RDY/INS**  
Púselo para activar o desactivar la función Auto-ready. (Vea "Función Auto-ready" en pág. 24).

Úselo también para añadir pistas al programa. (Vea "Reproducción programada" en pág. 28).

- ⑥ **Botón MENU**  
Pulse este botón para acceder al modo de menú. Cuando esté en el modo de menú, pulse este botón para salir de ese modo. (Vea "Conceptos básicos del funcionamiento del menú" en pág. 19).
- ⑦ **Botón ENTER**  
Cuando esté en el modo de menú, pulse este botón para confirmar una selección de elemento de menú o valor de ajuste. (Vea "Conceptos básicos del funcionamiento del menú" en pág. 19).  
Cuando use la función de repetición A-B, púselo para ajustar los puntos A y B. (Vea "Reproducción repetida A-B" en pág. 26).
- ⑧ **Botones numéricos**  
Use estos botones para designar números de pista para la selección de canciones. Introduzca dos dígitos en el caso de CD audio y tres para los CD de datos. (Vea "Designación de números de pista" en pág. 22).
- ⑨ **Botones SKIP (I◀◀ / ▶▶I)**  
Use estos botones para la selección directa de pistas. Ajuste la función Auto-cue para determinar qué es lo que ocurrirá tras la selección. (Vea "Salto a la pista anterior o siguiente" en pág. 22).  
En el modo de ajuste de programa, use estos botones para elegir pistas para el programa. (Vea "Reproducción programada" en pág. 28).
- ⑩ **Botones INDEX/DIR SEARCH (◀/▶)**  
Úselos para elegir índices en un CD audio o directorios en un CD de datos. Ajuste la función Auto-cue para determinar qué ocurrirá tras la selección. (Vea "Selección de índices y directorios" en pág. 22).
- ⑪ **Botón STOP ■**  
Púselo para detener la reproducción. Si ha activado la función de reproducción consecutiva, pulse este botón durante la reproducción para activar la pausa al principio de la pista siguiente. (Vea "Función de reproducción consecutiva" en pág. 25).
- ⑫ **Botón CALL**  
Durante la reproducción o en el modo de pausa, pulse este botón para volver al último punto en el que inició y activó la pausa en la reproducción. (Vea "Función Call" en pág. 25).
- ⑬ **Botón EJECT**  
Púselo para abrir y cerrar la bandeja de discos.
- ⑭ **Botón PLAY MODE**  
Pulse este botón para ir pasando entre los distintos modos de reproducción. Elija entre normal, único, programa y aleatorio.



## 2 – Nombres y funciones de las partes

### 15 Botón KEY ORIG

Activa o desactiva la función de clave original, que modifica la velocidad sin que cambie el tono. (Vea “Cambio de la velocidad de reproducción sin cambiar el tono (KEY ORIG)” en pág. 28).

### 16 Botón INTRO CHECK

Con la unidad parada, durante la reproducción o en pausa, pulse este botón para activar el modo Intro check. En este modo, pulse el botón ► **PLAY** para que sean reproducidos los 10 primeros segundos de cada pista de forma consecutiva. (Vea “Modo Intro check” en pág. 27).

### 17 Botón REPEAT

Púlselo para activar o desactivar la función de reproducción repetida. (Vea “Reproducción repetida” en pág. 26).

Manténgalo pulsado durante más de un segundo para activar la función de repetición A-B. (Vea “Reproducción repetida A-B” en pág. 26).

### 18 Botón NEXT

Cuando esté en el modo de menú, púlselo para elegir el siguiente valor (elemento de menú o valor de ajuste). (Vea “Conceptos básicos del funcionamiento del menú” en pág. 19).

### 19 Botón PREV

Cuando esté en el modo de menú, púlselo para elegir el valor anterior (elemento de menú o valor de ajuste). (Vea “Conceptos básicos del funcionamiento del menú” en pág. 19).

### 20 Botón PGM

Púlselo para acceder al modo de ajuste de programa. (Vea “Reproducción programada” en pág. 28).

### 21 Botón CLEAR

Pulse este botón para cancelar la introducción de datos de un botón numérico.

Manténgalo pulsado en el menú de programa para borrar el programa.

#### NOTA

*Al contrario de lo que ocurre con el botón CLEAR de la unidad principal, no puede mantener pulsado el botón CLEAR del control remoto mientras pulsa un botón numérico para eliminar un punto cue.*

### 22 Botones SEARCH (◀◀/▶▶)

Durante la reproducción o en pausa, pulse el botón ◀◀ para realizar un rebobinado y el botón ▶▶ para un avance rápido. (Vea “Uso de los botones SEARCH” en pág. 23).

En el modo de ajuste de programa, úselos para elegir el número de programa. (Vea “Reproducción programada” en pág. 28).

### 23 Botones JOG (-/+)

Con la unidad en pausa, pulse uno de los botones **JOG** (+ o -) para acceder al modo Jog. Pulse el botón + para avanzar una secuencia y el - para retroceder una. (Vea “Uso de la función jog para la búsqueda” en pág. 23).

### 24 Botón PAUSE II

Púlselo durante la reproducción para activar la pausa.

Cuando esté activa la función Auto-cue, pulse este botón con la unidad parada para activar la pausa en el momento en que comience el sonido en la pista 1. Cuando la función auto-cue esté desactivada, pulse este botón con la unidad parada para que se active la pausa al principio de la pista 1.

### 25 Botón PLAY ►

Con la unidad parada, pulse este botón para poner en marcha la reproducción.

Con la unidad en pausa, pulse este botón para continuar la reproducción desde el punto en el que fue activada la pausa.

Cuando esté activa la función de reproducción consecutiva, pulse este botón durante la reproducción para iniciar la reproducción de la pista siguiente. Cuando la función de reproducción consecutiva esté desactivada, pulse este botón durante la reproducción para usar el salto atrás de reproducción.

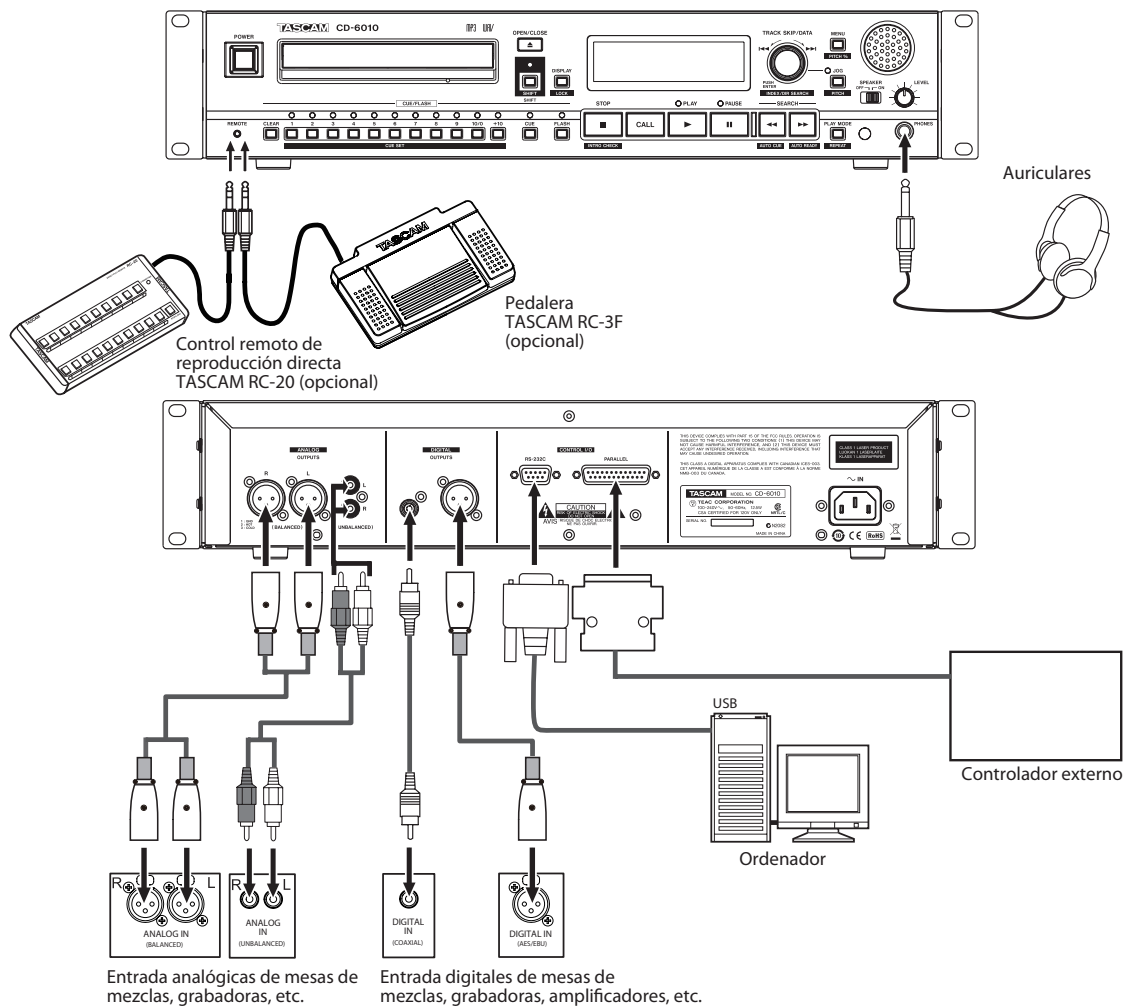
# 3 – Preparativos

## Conexiones

La ilustración siguiente le muestra un ejemplo de conexión de otros aparatos con un CD-6010.

### Precauciones a tener en cuenta antes de realizar las conexiones

- Antes de conectar otros dispositivos, lea sus respectivos manuales para realizar la conexión correctamente.
- Apague (o deje en el modo standby) tanto esta unidad como el resto de dispositivos a los que la vaya a conectar.
- Conecte todos los dispositivos a la misma salida de corriente. Cuando utilice una regleta, utilice un cable grueso con una gran capacidad para evitar variaciones en el voltaje.



### Conexión de una pedalera

Conecte una pedalera TASCAM RC-3F (opcional) a la toma **REMOTE** para que pueda controlar con ella algunas funciones de esta unidad. (Vea "Control del reproductor con una pedalera" en pág. 33).

### Conexión de un control de reproducción directa

Conecte un control remoto de reproducción directa TASCAM RC-20 (opcional) a la toma **REMOTE** para que pueda controlar con ella algunas funciones de esta unidad. (Vea "Control del reproductor con un control remoto de reproducción directa" en pág. 34).

### Conexión de auriculares

Conecte unos auriculares stereo a la toma **PHONES** del panel frontal. Use el mando **LEVEL** para ajustar el volumen.

### CUIDADO

*Antes de conectar unos auriculares, reduzca al mínimo el volumen con el mando **LEVEL**. El no hacer esto puede dar lugar a la brusca aparición de un fuerte ruido, que puede producir daños auditivos, por ejemplo.*

### Conexión con un ordenador

Conecte la toma **RS-232C** de esta unidad a una toma RS-232C de un ordenador para el control serie de esta unidad desde el ordenador.

Después de conectar la unidad al ordenador, realice los ajustes de transmisión correctos en esta unidad. (Vea "Uso del conector RS-232C" en pág. 34).

## Conexión de equipos audio digitales

Conecte las entradas digitales de amplificadores stereo, mesas de mezclas, grabadoras u otros aparatos digitales a los conectores de salida digital de esta unidad.

## Conexión de equipos audio analógicos

Conecte las entradas analógicas de amplificadores stereo, mesas de mezclas, grabadoras u otros aparatos analógicos a los conectores de salida analógica de esta unidad.

### NOTA

- Los cables no están incluidos con esta unidad.
- No junte cables RCA con cables de alimentación o con cables de altavoces. El hacerlo podría dar lugar a ruidos o reducir la calidad del sonido.

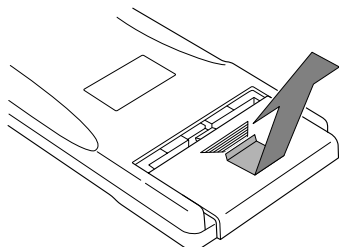
## Uso del conector paralelo

Para usar un controlador externo para el control paralelo de la unidad, use la toma **CONTROL I/O PARALLEL** (sub D de 25 puntas). Para ver las asignaciones de puntas de este conector PARALLEL, vea "Uso del conector paralelo" en pág. 35.

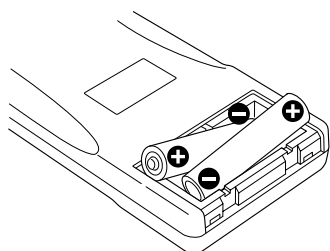
## Preparativos del control remoto

### Inserción de las pilas

- 1 Abra la tapa del compartimento para pilas que está en la parte trasera del mando a distancia.



- 2 Introduzca dos pilas AAA, asegurándose de seguir la polaridad ± correcta.



- 3 Cierre la tapa.

### Cuándo debe sustituir las pilas

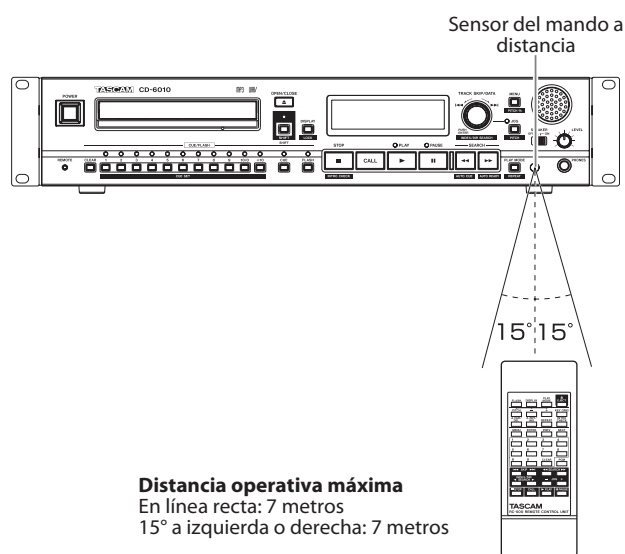
Si la distancia operativa del mando a distancia se reduce o si la unidad no responde cuando pulse las teclas, sustituya las dos pilas a la vez por otras nuevas.

## Precauciones acerca del uso de las pilas

Un uso inadecuado de las pilas puede provocar una fuga de electrolito o hacer que éstas se estropeen. Lea y siga las instrucciones que vienen en el envoltorio de las pilas. Vea la página 4 de este manual para más información.

## Precauciones acerca del uso del control remoto

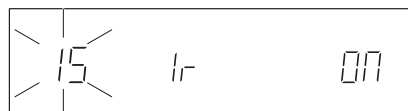
- Cuando esté usando otros dispositivos que también sean controlados por señales de infrarrojos, el uso del mando a distancia de esta unidad puede hacer que esas otras unidades funcionen de forma incorrecta.
- Use este mando a distancia dentro del siguiente rango.



## Configuración de recepción del control remoto

Para evitar errores, puede desactivar la opción de control de esta unidad desde el mando a distancia.

Use el elemento de menú 15 IR para ajustar si quiere que la unidad pueda ser controlada por el mando a distancia o no (valor por defecto: ON).



### NOTA

- Si ha ajustado la recepción del mando a distancia a OFF, en la pantalla aparecerá IR OFF cuando pulse cualquiera de los botones de dicho mando a distancia.
- El valor del ajuste de la recepción del mando a distancia (on/off) queda memorizado incluso después de apagar la unidad.

### Función de bloqueo del panel

Cuando esté en el modo secundario (indicador **SHIFT** encendido), mantenga pulsado el botón **DISPLAY [LOCK]** para activar o desactivar la función de bloqueo de panel. También puede activarla/desactivarla pulsando el botón **DISPLAY [LOCK]** mientras mantiene pulsado el botón **SHIFT**.

Cuando esté activa (on), todos los botones del panel frontal de esta unidad (salvo los botones **SHIFT** y **DISPLAY [LOCK]**) y los del mando a distancia quedarán anulados. Si pulsa cualquiera de esos botones en la pantalla aparecerá **LOCKED**.

#### NOTA

- *Incluso cuando esté activa esta función de bloqueo de panel, podrá seguir controlando la unidad desde una pedalera TASCAM RC-3F conectada a la toma REMOTE del panel frontal y desde los controladores externos conectados a las tomas RS-232C y CONTROL I/O PARALLEL del panel trasero.*
- *El ajuste de bloqueo de panel (on/off) queda memorizado incluso después de apagar la unidad.*

Use el sistema de menú de esta unidad para realizar diversos ajustes. Algunas de las opciones de ajuste puede ejecutarlas usando los botones del mando a distancia.

## Estructura del menú

La estructura del menú de esta unidad incluye los siguientes elementos.

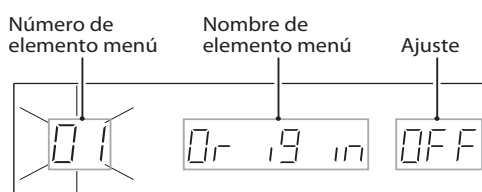
Número menú	Elemento	Función	Referencia
01	Origin	Clave original	Pág. 28
02	TRAY	Bloqueo de la bandeja	Pág. 21
03	A_CUE	Nivel Auto-cue	Pág. 24
04	Prog	Programa	Pág. 28
05	FADE	Fundido entrada/salida	Pág. 30
06	EOM_D	Indicación tiempo DISC EOM	Pág. 32
07	P onPL	Función Power on play	Pág. 27
08	Mono	Salida mono	Pág. 33
09	RESUM	Continuación	Pág. 24
10	EOM_T	Indicación tiempo TRACK EOM	Pág. 32
11	Inc-P	Reproducción consecutiva	Pág. 25
12	P-STEP	Pasos de control de tono	Pág. 28
13	232C	Velocidad de baudios	Pág. 34
14	S-BAC	Salto atrás	Pág. 30
15	IR	Recepción mando a distancia	Pág. 17
16	INTVAL	Intervalo de silencio entre las pistas	Pág. 33
17	FRAM	Indicación de secuencias	Pág. 32
18	REMOT	Modo de pedalera	Pág. 33
19	ATT	Atenuación analógica	Pág. 35
20	RESET	Restauración a valores de fábrica	Pág. 34
21	INFO	Visualización versión firmware	Pág. 35
22	D-OUT	Formato de salida digital	Pág. 35

## Conceptos básicos del funcionamiento del menú

Los pasos básicos para realizar ajustes usando el sistema de menú son los siguientes.

- 1 Con la información de reproducción normal en pantalla, pulse el botón MENU de la unidad o del mando a distancia TASCAM RC-500 incluido.

En la zona central de la pantalla verá el elemento de menú seleccionado. Aparecerá el elemento de menú que seleccionó la última vez que la unidad estuvo en el modo de menú.



- 2 Use los botones del panel frontal de la unidad o el mando a distancia para realizar la operación siguiente y elegir el elemento de menú que quiera.

- **Cuando use los botones del panel frontal:** Gire el mando TRACK SKIP/DATA o use el teclado numérico para elegir el elemento de menú y pulse el mando TRACK SKIP/DATA para confirmar su selección.
- **Cuando use el mando a distancia:** Use los botones PREV y NEXT así como el teclado numérico para elegir el elemento de menú y pulse el botón ENTER para confirmar su selección.

### NOTA

- El número del elemento de menú parpadeará hasta que lo confirme.
- Cuando utilice el teclado numérico, introduzca dos dígitos para elegir elementos de menú. Por ejemplo, para elegir el número de elemento 06, pulse el 0 seguido del botón 6.

El paso siguiente (3) se aplica a todos los elementos excepto al 04 PROG, 20 RESET y 21 INFO. Vea sus explicaciones concretas para más información acerca de cómo usar esos elementos.

- 3 Elija el valor que quiera.

- **Cuando use los botones del panel frontal:** Gire el mando TRACK SKIP/DATA para elegir el valor y pulse ese mismo mando para confirmar el ajuste.
- **Cuando use el mando a distancia:** Use los botones PREV y NEXT para elegir el valor y pulse el botón ENTER para confirmar el ajuste.

### NOTA

- Cuando elija un valor diferente al ajuste activo, ese valor parpadeará. Una vez que haya confirmado ese nuevo ajuste, volverá a aparecer el modo de selección de elemento de menú.
- Para cancelar un cambio de ajuste, pulse el botón MENU de la unidad o del mando a distancia.

- 4 Repita los pasos 2–3 las veces necesarias.

- 5 Para salir del modo de menú, pulse el botón MENU de la unidad o del mando a distancia.

# 5 – Funcionamiento

## Tipos de discos y ficheros compatibles

Esta unidad puede reproducir los siguientes tipos de ficheros y discos.

### Discos en formato CD-DA (CD de audio)

Esta unidad puede reproducir los CDs de música comerciales así como discos CD-R que hayan sido grabados en formato CD audio. En este manual nos referiremos a estos tipos de discos como "CDs de audio".

Esta unidad no puede leer discos CD-R que no hayan sido finalizados.

### Discos en formato CD-ROM (CD de datos)

Esta unidad puede reproducir discos con ficheros MP3 y WAV en formato ISO 9660 nivel 1, nivel 2 o Joliet. En este manual nos referiremos a estos tipos de discos como "CDs de datos".

#### NOTA

- Esta unidad puede reproducir ficheros MP3 que tengan una frecuencia de muestreo de 32, 44.1 ó 48 kHz y una velocidad de bits de 32–320 kbps o una velocidad de bits variable (VBR).
- Esta unidad puede reproducir ficheros WAV que tengan una frecuencia de muestreo de 32, 44.1 ó 48 kHz y sean a 16 bits.
- Durante la reproducción de ficheros MP3 y WAV, la salida digital de esta unidad tiene una frecuencia de muestreo de 44.1 kHz. Cuando esté activada la función de control de tono, la salida también será digital y es posible que algunos dispositivos no puedan recibir esa salida digital.
- La unidad identifica los ficheros MP3 por la extensión de fichero ".mp3". Este aparato es incapaz de reproducir ficheros MP3 que no tengan la extensión de fichero ".mp3", así es que no se olvide nunca de incluirla al final del nombre de un fichero MP3. La unidad no podrá reproducir ficheros que no estén en formato MP3 aunque estos tengan la extensión ".mp3".
- La unidad identifica los ficheros WAV por la extensión de fichero ".wav". Este aparato es incapaz de reproducir ficheros WAV que no tengan la extensión de fichero ".wav", por lo que no olvide nunca de incluirla al final del nombre de un fichero WAV. La unidad no podrá reproducir ficheros que no estén en formato WAV aunque estos tengan la extensión ".wav".
- Los discos con 1.000 ficheros o más o con 255 o más carpetas no podrán ser reproducidos correctamente.
- Dependiendo del estado en el que se encuentre el disco, es posible que no pueda ser reproducido o que se produzcan saltos en el sonido.

## Directorios y pistas de los CDs de datos

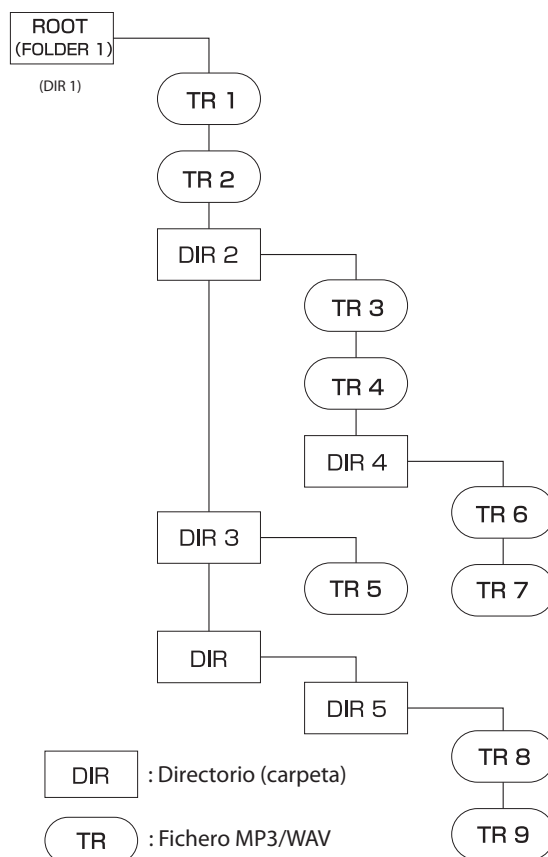
Esta unidad trata todos los ficheros audio (WAV y MP3) de los CDs de datos como "pistas". Algunos CDs de datos contienen ficheros dentro de carpetas del mismo modo que ocurre en los ordenadores. Además, puede almacenar varias subcarpetas dentro de una carpeta, creando una estructura con diversos niveles.

Esta unidad asigna a cada carpeta un número de forma secuencial empezando por la primera carpeta del primer nivel y siguiendo por las carpetas (subcarpetas) dentro de ella. Si el directorio raíz de un CD audio incluye uno o más ficheros audio, éste será numerado como primera carpeta.

A cada fichero audio también se le asigna un número de pista de forma secuencial empezando por las que se encuentren en la carpeta de número inferior.

Durante la reproducción ordinaria de los CDs de datos, las pistas serán reproducidas como un CD de audio siguiendo el orden numérico que les haya sido asignado.

A las carpetas que no contengan ficheros no se les asignará ningún número. Por ejemplo, en la imagen de abajo no se asignará ningún número al directorio que contiene el Directorio 5.



Un ejemplo de estructura de CD de datos

## Carga de discos

### Inserción de un disco

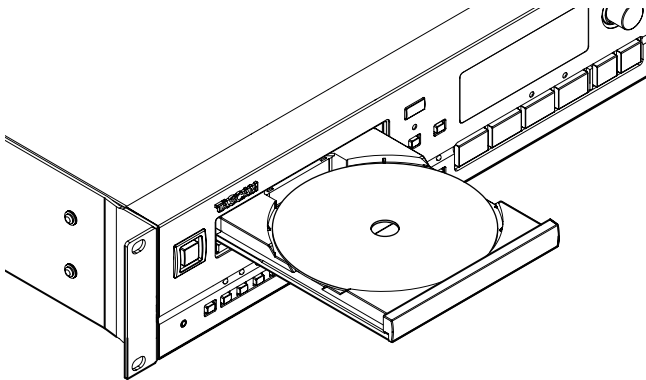
Para cargar un CD, pulse el botón **OPEN/CLOSE** de la unidad o el botón **EJECT** del mando a distancia para abrir la bandeja de discos. Coloque en ella el disco con la cara de la etiqueta hacia arriba.

Pulse de nuevo el botón **OPEN/CLOSE** o el botón **EJECT** para cerrar la bandeja.

Una vez que el disco haya sido cargado, el reproductor leerá la información que contenga. Si es un CD audio, en pantalla aparecerá el número total de pistas y el tiempo de reproducción total. Si es un CD de datos, en pantalla verá el número total de pistas del directorio activo.

#### NOTA

También puede pulsar el botón ► [PLAY] para que se cierre la bandeja y comience inmediatamente la reproducción, en lugar de pulsar el botón OPEN/CLOSE o el EJECT de nuevo para cerrar la bandeja.



### Expulsión de un disco

Pulse el botón **OPEN/CLOSE** de la unidad o el botón **EJECT** del mando a distancia.

Extraiga el disco una vez que la bandeja se haya abierto.

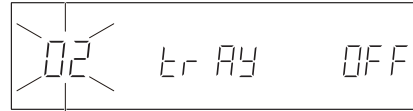
#### NOTA

- De cara a reducir el tiempo de expulsión del disco, la bandeja se abrirá antes de que el disco se haya detenido completamente.
- El botón OPEN/CLOSE solo funciona con la unidad encendida. Si debe extraer un disco con la unidad apagada, introduzca la punta de un clip en el agujero que está debajo de la bandeja y pulse allí para forzar la apertura de la bandeja.

## Función de bloqueo de la bandeja

Esta función le permite desactivar el botón **OPEN/CLOSE** de la unidad durante la reproducción y la pausa para evitar una interrupción de la reproducción en caso de una pulsación accidental de este botón.

Para activar este bloqueo de expulsión, ajuste el elemento de menú 02 TRAY a LOK (valor por defecto: OFF).



#### NOTA

El ajuste on/off de la función de bloqueo de expulsión queda memorizado incluso después de apagar la unidad.

## Reproducción de un CD

Para los pasos siguientes asumiremos que ya ha realizado las conexiones necesarias, que la unidad está encendida y que hay un CD (audio o de datos) cargado.

Para iniciar la reproducción, pulse el botón ► [PLAY] de la unidad o el botón ► PLAY del mando a distancia.

### Parada de la reproducción

Pulse el botón ■ STOP [INTRO CHECK] de la unidad o el botón ■ STOP del mando a distancia.

### Pausa de reproducción

Pulse el botón II [PAUSE] de la unidad o el botón II PAUSE del mando a distancia.

Para continuar con la reproducción desde el punto en que fue activada la pausa, pulse el botón ► [PLAY] de la unidad o el botón ► PLAY del mando a distancia.

#### NOTA

En este manual, salvo que indiquemos lo contrario, supondremos que está activo el modo de reproducción continua. (Vea "Modos de reproducción" en pág. 23).

## 5 – Funcionamiento

### Selección de una pista

Puede desplazarse (saltar) a la pista anterior o siguiente, o elegir directamente su correspondiente número de pista.

### Salto a la pista anterior o siguiente

Gire el mando **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] de la unidad o pulse los botones **SKIP** ◀◀ / ▶▶ del mando a distancia para elegir una pista. Lo que ocurra después de que use los botones **SKIP** para elegir la pista dependerá de si la función Auto-cue está activa o no. (Vea "Función Auto-cue" en pág. 24).

#### Con la unidad parada

Si la función Auto-cue está desactivada, la reproducción quedará en pausa al principio de la pista. Para iniciar la reproducción después, pulse el botón ▶ [PLAY] de la unidad o el botón ▶ **PLAY** del mando a distancia.

Si la función Auto-cue está activa, la reproducción quedará en pausa en el momento en que empiece el sonido en la pista. Para iniciar la reproducción después, pulse el botón ▶ [PLAY] de la unidad o el botón ▶ **PLAY** del mando a distancia.

#### Durante la reproducción

La pista elegida comenzará a ser reproducida.

#### Con la unidad en pausa

Si la función Auto-cue está en off, la reproducción quedará en pausa al principio de la pista elegida.

Si la función Auto-cue está activa, la reproducción quedará en pausa en el momento en que empiece el sonido en la pista.

#### NOTA

*Si pulsa una vez el botón ◀◀ durante la reproducción o con la pausa activa, la reproducción saltará al principio de la pista activa. No obstante, si la reproducción está a un segundo o menos del principio de la pista activa, el pulsar el botón ◀◀ hará que salte a la pista anterior.*

### Designación de números de pista

Use el teclado numérico de la unidad o del mando a distancia para designar directamente números de pista.

#### ■ Con CD audio

Introduzca dos dígitos. Por ejemplo, si quiere elegir la pista número "9", teclee "0" seguido de "9".

#### ■ Con CD de datos

Introduzca tres dígitos. Por ejemplo, si quiere elegir la pista número "105", teclee "1", "0" y "5". Si la pista es la número "4", teclee "0", "0" y "4".

#### Con la unidad parada, use el teclado numérico para designar un número de pista y,

- Si la función Auto-cue está en off, la unidad quedará en pausa al principio de la pista elegida. Tras ello, pulse el

botón ▶ [PLAY] de la unidad o el botón ▶ **PLAY** del mando a distancia para iniciar la reproducción.

- Si la función Auto-cue está activa, la reproducción quedará en pausa en el momento en que comienza el sonido en esa pista.

#### Durante la reproducción, use el teclado numérico para designar un número de pista y que comience su reproducción.

#### Con la unidad en pausa, use el teclado numérico para designar un número de pista y,

- Si la función Auto-cue está en off, la reproducción quedará en pausa al principio de esa pista.
- Si la función Auto-cue está activa, la reproducción quedará en pausa en el momento en que comienza el sonido en esa pista.

### Selección de índices y directorios

Puede elegir índices de pistas en los CD audio y directorios o carpetas en los CD de datos.

#### NOTA

- *Los índices de los CD de datos son divisiones dentro de las pistas. En otras palabras, unidades más pequeñas que las pistas.*
- *Los directorios o carpetas de los CD de datos son carpetas que contienen ficheros MP3 y WAV (pistas). En otras palabras, unidades superiores a las pistas.*

Use los pasos siguientes para elegir índices y directorios.

#### Usando los botones del panel frontal:

Cuando esté en el modo secundario (indicador **SHIFT** encendido) use el mando **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] para elegirlos. También puede hacerlo pulsando el mando **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] mientras mantiene pulsado el botón **SHIFT**.

#### Usando el mando a distancia:

Use los botones **INDEX/DIR SEARCH** ◀/▶ para elegirlos.

Cuando haya elegido un directorio de un CD de datos, comenzará automáticamente la reproducción de la primera pista que haya dentro del directorio (salvo que la función Auto-cue esté activa, en cuyo caso la unidad quedará en pausa en el momento en que comience el sonido en esa primera pista).

Cuando elija un índice de un CD audio, comenzará la reproducción de la pista desde el índice elegido (salvo que la función Auto-cue esté activa, en cuyo caso la unidad quedará en pausa en el momento en que comience el sonido en el índice elegido).

## Uso de los botones SEARCH

Puede realizar búsqueda hacia delante y atrás en una pista mientras la escucha (rebobinado y avance rápido).

- 1 Reproduzca o active la pausa en la pista que quiera.
- 2 Mantenga pulsado uno de los botones SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] en la unidad o un botón SEARCH ◀◀/▶▶ del mando a distancia para iniciar el rebobinado o avance rápido.
- 3 Deje de pulsar el botón cuando quiera detener la búsqueda y hacer que la unidad vuelva al estado en el que estaba antes de iniciar esta operación (reproducción o pausa).

### NOTA

No puede usar la función de búsqueda con CD de datos.

## Uso de la función jog para la búsqueda

Puede usar la función jog para desplazarse por las pistas de secuencia en secuencia. No obstante, no puede usar esta unidad con los CD de datos.

### Usando los botones del panel frontal:

Con la unidad en pausa, pulse el botón **JOG** para activar el modo jog y gire el mando **TRACK SKIP/DATA** para desplazarse por la pista de secuencia en secuencia.

### Usando el mando a distancia:

Con la unidad en pausa, pulse uno de los botones **JOG (+/-)** para acceder al modo jog.

Pulse el botón **+** para avanzar una secuencia y el botón **-** para retroceder una.

### NOTA

En el modo jog, si detiene la búsqueda, la reproducción quedará en pausa pero el sonido de la posición activa será emitido de forma continua.

## Modos de reproducción

Esta unidad tiene 4 modos de reproducción.

El modo activo aparece indicado en la pantalla.

### ■ Modo de reproducción continua (ajuste por defecto)

En este caso no aparecerá nada en la zona de indicación de modo de reproducción de la parte superior de la pantalla.

Las pistas del disco son reproducidas siguiendo su orden numérico respectivo.

### ■ Modo de reproducción única

En la zona de indicación de modo de reproducción de la parte superior de la pantalla aparecerá **Σ**.

La pista seleccionada es reproducida una vez y después la unidad se detiene.

### ■ Modo de reproducción programada

En la zona de indicación de modo de reproducción de la parte superior de la pantalla aparecerá **PGM**.

Las pistas son reproducidas en el orden en el que hayan sido programadas de antemano. (Vea "Reproducción programada" en pág. 28).

### ■ Modo de reproducción aleatoria

En la zona de indicación de modo de reproducción de la parte superior de la pantalla aparecerá **RANDOM**.

Las pistas del disco son reproducidas en un orden totalmente aleatorio.

## Selección del modo de reproducción

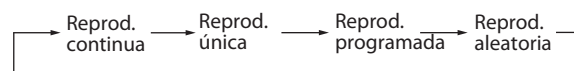
Use los pasos siguientes para ajustar el modo de reproducción que quiera usando los controles de la unidad o del mando a distancia TASCAM RC-500 incluido.

### Usando los botones del panel frontal:

Pulse el botón **PLAY MODE [REPEAT]** para ir pasando por los distintos modos de reproducción.

### Usando el mando a distancia:

Pulse el botón **PLAY MODE** para ir pasando por los distintos modos de reproducción.



### NOTA

El modo de reproducción que elija quedará memorizado incluso después de apagar la unidad.

# 6 – Funciones de reproducción diversas

En este capítulo le explicamos las distintas funciones de reproducción de esta unidad.

## Función Auto-cue

Cuando esté activada la función auto cue y elija una pista, la unidad saltará cualquier periodo de silencio que esté al principio de la pista, y activará la pausa en el instante en el que sea detectada la primera señal sonora. Esto hará que escuche sonido tan pronto como inicie la reproducción.

### NOTA

- Cuando use la función de arranque flash para la reproducción, Auto-cue quedará desactivada.
- Si la función Auto-cue está activa y elige una pista durante la reproducción, dicha pista se reproducirá desde el momento en que comience el sonido en ella. Si la función Auto-cue está activa y elige una pista con la unidad en pausa, el reproductor quedará en pausa en el momento en que comience el sonido en la pista elegida.

Además, puede ajustar el nivel del umbral de detección de la señal audio (nivel Auto-cue) usado por esta función. Cualquier señal superior a este nivel será reconocida como "sonido" y cualquiera que esté por debajo de ese umbral será tratada como un "silencio".

Los pasos siguientes le describen como usar el menú para activar o desactivar la función Auto-cue y ajustar el nivel Auto-cue. (Para ver más detalles acerca del uso de la pantalla de menú, vaya a "Conceptos básicos del funcionamiento del menú" en pág. 19).

### ■ Activación/desactivación de la función Auto-cue

#### Usando los botones del panel frontal:

En el modo secundario (piloto **SHIFT** iluminado), pulse el botón **SEARCH ◀◀ [AUTO CUE]** para activarla/desactivarla. También puede pulsar **SEARCH ◀◀ [AUTO CUE]** mientras mantiene pulsado el botón **SHIFT**.

#### Usando el mando a distancia:

Pulse el botón **A.CUE/DEL** para activarla/desactivarla.

Cuando la función Auto-cue esté activa, en la parte inferior de la pantalla aparecerá **A.CUE**.

### NOTA

El ajuste on/off de la función Auto-cue queda memorizado incluso después de apagar la unidad.

## Ajuste del nivel auto-cue

Para ajustar el nivel de disparo de la función Auto-cue (nivel Auto-cue), use el elemento de menú **03 A-CUE**.



Opciones: 24 (valor por defecto), 30, 36, 42, 48, 54, 60, 66, 72

Estos valores representan los niveles de Auto-cue en dB. El primer punto en el que el nivel de señal de la pista elegida sobrepase este nivel Auto-cue será reconocido como el punto en el que comienza el sonido.

### NOTA

El ajuste de nivel Auto-cue queda memorizado incluso después de apagar la unidad.

## Función Auto-ready

Si esta función Auto-ready está activa, una vez que haya terminado la reproducción de una pista, la unidad quedará en pausa al principio de la pista siguiente.

### NOTA

- Si la función Auto-cue también está activa, la reproducción quedará en pausa en el punto en el que comience el sonido en lugar de al principio de la pista.
- Cuando use la función de arranque flash para la reproducción, la función Auto-ready estará desactivada.

### ■ Activación y desactivación de la función Auto-ready

#### Usando los botones del panel frontal:

En el modo secundario (piloto **SHIFT** encendido), pulse el botón **SEARCH ▶▶ [AUTO READY]** para activarla/desactivarla. También puede hacer esto pulsando **SEARCH ▶▶ [AUTO READY]** mientras mantiene pulsado el botón **SHIFT**.

#### Usando el mando a distancia:

Pulse el botón **A.RDY/INS** para activarla/desactivarla.

Cuando la función Auto-ready esté activada, en la parte inferior de la pantalla aparecerá **A.RDY**.

### NOTA

El ajuste on/off de la función Auto-ready queda memorizado incluso después de apagar la unidad.

## Función Resume

Cuando esta función esté activa, la unidad memorizará la posición en la que detenga la reproducción. Cuando vuelva a iniciar la reproducción, continuará a partir de ese punto. No obstante, cuando use esta función con un CD de datos, la reproducción continuará desde el principio de la pista que estaba siendo reproducida cuando detuvo la unidad.

Para activar/desactivar esta función, use el elemento de menú **09 RESUM** (valor por defecto: OFF).



Cuando esta función esté activada, en la parte inferior de la pantalla aparecerá **RESUME**.

### NOTA

El estado on/off de la función resume queda memorizado incluso después de apagar la unidad.

### Función Call

Durante la reproducción o en pausa, pulse el botón **CALL [PLAY MODE]** de la unidad o el botón **CALL** del mando a distancia para que la unidad se coloque en el último punto en el que la reproducción fue activada y que quede en pausa allí. No obstante, cuando use esta función con un CD de datos, la reproducción quedará en pausa al principio de la pista activa la última vez que puso en marcha la reproducción.

### Función Cue o de escucha

Puede usar esta función para almacenar en memoria hasta 20 puntos de tiempo de un CD audio a los que pueda saltar directamente cuando quiera.

Pulse el botón **CUE** del panel frontal para usar esta función. Cuando esté activa, el piloto **CUE** se iluminará.

#### NOTA

- La función cue no es operativa con CD de datos.
- Cuando el piloto cue esté iluminado, los botones numéricos de la unidad y del mando a distancia serán usados por la función cue y no podrá usarlos para designar números de pista o para el arranque flash de pistas. Para usar estas funciones, pulse el botón **CUE** para que se apague el piloto y desactivar esta función.
- Los puntos cue quedan memorizados incluso después de apagar la unidad.

### Ajuste de puntos de escucha

Durante la reproducción o con la unidad en pausa, tras activar el modo secundario (piloto **SHIFT** encendido), pulse uno de los botones numéricos de la unidad o del mando a distancia para fijar un punto cue en la posición de tiempo de reproducción activa. Pulse el botón **+10** para usar estos botones para fijar los puntos 11–20 cuando el piloto esté iluminado.

Se iluminarán los indicadores de los botones numéricos que ya contengan puntos cue memorizados.

#### NOTA

También puede fijar estos puntos pulsando un botón numérico mientras mantiene pulsado el botón **SHIFT**.

### Uso de los puntos de escucha

Con el modo secundario desactivado (piloto **SHIFT** apagado) y al menos un punto cue fijado (piloto de botón numérico encendido), pulse el botón numérico correspondiente para que la unidad salte directamente a ese punto cue y quede en pausa.

Si el piloto **FLASH** está iluminado, el pulsar un botón numérico que contenga un punto cue hará que se inicie la reproducción de forma inmediata desde dicho punto. (Vea "Función de arranque flash" en pág. 30).

### Borrado de puntos de escucha

Para borrar un punto cue, pulse el botón numérico correspondiente (encendido) mientras pulsa el botón **CLEAR**. Una vez que el punto cue haya sido borrado, el indicador del botón numérico se apagará.

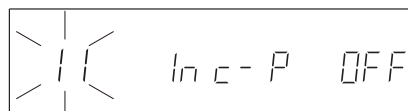
### Función de reproducción consecutiva

Cuando active esta función, al pulsar el botón **▶ PLAY** de la unidad o del mando a distancia durante la reproducción, comenzará la reproducción desde el principio de la pista siguiente, mientras que el pulsar el botón **■ STOP [INTRO CHECK]** de la unidad o el botón **■ STOP** del mando a distancia hará que se detenga la reproducción al principio de la pista siguiente.

#### NOTA

- Cuando la función de reproducción consecutiva esté activa y la reproducción esté en pausa, el pulsar el botón **▶ PLAY** de la unidad o del mando a distancia hará que la reproducción comience desde ese punto y el pulsar el botón **■ STOP [INTRO CHECK]** de la unidad o el botón **■ STOP** del mando a distancia detendrá la reproducción.
- Durante la reproducción de la última pista, si pulsa el botón **▶ PLAY** de la unidad o del mando a distancia, comenzará la reproducción de la primera pista. Si pulsa **■ STOP [INTRO CHECK]** de la unidad o el botón **■ STOP** del mando a distancia, la reproducción quedará en pausa al principio de la primera pista.
- El ajuste de la punta 2 (PLAY IN) o 3 (STOP IN) a ON en el conector paralelo de E/S de control tiene el mismo efecto.
- La recepción de una orden de parada desde la punta 8 (FADER START/STOP) del conector paralelo de E/S de control tiene el mismo efecto.

Para activar o desactivar esta función, use el elemento de menú 11 **Inc-P** (valor por defecto: OFF).



Cuando esta función esté activa, en la parte inferior de la pantalla aparecerá **INCR.**

#### NOTA

El estado on/off de la reproducción consecutiva queda memorizado incluso después de apagar la unidad.

## 6 – Funciones de reproducción diversas

### Reproducción repetida

Puede reproducir de forma repetida todas las pistas o una parte concreta de una pista (Reproducción repetida A-B).

### Reproducción repetida ordinaria

Cuando esté activa la función de reproducción repetida, su comportamiento dependerá del modo de reproducción elegido.

- Modo de reproducción de todas las pistas (normal): el disco completo es reproducido de forma repetida
- Modo de reproducción de pista única: la pista activa es reproducida de forma repetida
- Reproducción programada: todas las pistas del programa son reproducidas de forma repetida
- Reproducción aleatoria: todas las pistas del disco son reproducidas aleatoriamente de forma repetida

Use uno de los sistemas siguientes para activar la función de reproducción repetida.

#### Usando los botones del panel frontal:

En el modo secundario (piloto **SHIFT** encendido), pulse el botón **PLAY MODE [REPEAT]**. En la parte superior de la pantalla aparecerá **REPEAT** cuando este modo esté activado. También puede hacer esto pulsando el botón **PLAY MODE [REPEAT]** mientras mantiene pulsado el botón **SHIFT**.

#### Usando el mando a distancia:

Pulse el botón **REPEAT** del mando a distancia. En la parte superior de la pantalla aparecerá **REPEAT** cuando este modo esté activado.

Use uno de estos procesos si quiere desactivar la reproducción repetida.

- Cuando la unidad esté en el modo secundario (piloto **SHIFT** encendido), pulse de nuevo el botón **PLAY MODE [REPEAT]** hasta que la indicación **REPEAT** desaparezca de la pantalla. También puede hacer esto pulsando el botón **PLAY MODE [REPEAT]** mientras mantiene pulsado el botón **SHIFT**.
- Pulse el botón **REPEAT** del mando a distancia hasta que la indicación **REPEAT** desaparezca de la pantalla.

#### NOTA

*El ajuste de reproducción repetida queda memorizado incluso después de apagar la unidad.*

### Reproducción repetida A-B

Puede especificar un intervalo concreto (A-B) dentro de una pista para que sea reproducido de forma repetida. Use los pasos siguientes para activar este modo.

- 1 Durante la reproducción o con la unidad en pausa y con la unidad en el modo secundario (indicador **SHIFT** encendido), mantenga pulsado el botón **PLAY MODE [REPEAT]** de la unidad, o pulse el botón **PLAY MODE [REPEAT]** mientras pulsa el botón **SHIFT**, o mantenga pulsado el botón **REPEAT** del mando a distancia para activar el modo de repetición A-B. En la parte superior de la pantalla parpadeará la indicación **REPEAT**.
- 2 Pulse el mando **TRACK SKIP/DATA** de la unidad o el botón **REPEAT** del mando a distancia cuando esté en el punto que quiera que sea el principio del intervalo a repetir (punto A). En la parte superior de la pantalla parpadeará la indicación **A-B**.
- 3 De nuevo, pulse el mando **TRACK SKIP/DATA** de la unidad o el botón **REPEAT** del mando a distancia en el punto que quiera que sea el final del intervalo a repetir (punto B).  
Entonces empezará la reproducción repetida entre los puntos A y B, y la indicación **A-B** quedará fija (en lugar de parpadear) en la parte superior de la pantalla.
- 4 Para finalizar la reproducción repetida A-B, pulse el botón **STOP [INTRO CHECK]** de la unidad o el botón **STOP** del mando a distancia.

#### NOTA

- No puede usar esta reproducción repetida A-B con un CD de datos.
- Una vez que la reproducción llegue al punto B, volverá al punto A y seguirá desde allí.
- No es posible la reproducción repetida A-B a través de más de una pista.

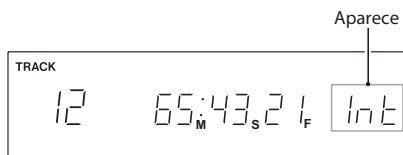
## Modo Intro check

La función Intro Check le permite reproducir los 10 primeros segundos de cada pista. Use los pasos siguientes para activar este modo.

**Usando los botones del panel frontal:**

- 1 Con la unidad parada y en el modo secundario (indicador **SHIFT** encendido), pulse el botón **■ STOP [INTRO CHECK]**. También puede hacer esto pulsando el botón **STOP [INTRO CHECK]** mientras mantiene pulsado el botón **SHIFT**.

En el lado derecho de la pantalla aparecerá **INT**.



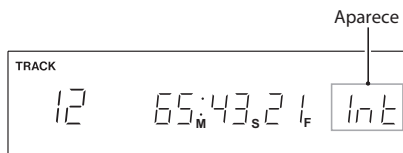
### NOTA

Este modo Intro check no puede ser activado con el modo de reproducción único ni con la reproducción aleatoria.

- 2 Pulse el botón **▶ [PLAY] [REPEAT]** para activar el modo Intro check a partir de la pista siguiente.
- 3 Pulse de nuevo el botón **■ STOP [INTRO CHECK]** para detener la reproducción y desactivar este modo Intro check.

**Usando el mando a distancia:**

- 1 Con la unidad parada o en pausa, pulse **INTRO CHECK** del mando a distancia para activar el modo. En el lado derecho de la pantalla aparecerá **INT**.



### NOTA

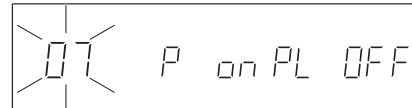
Si pulsa el botón **INTRO CHECK** del mando a distancia durante la reproducción, en el lado derecho de la pantalla aparecerá **INT** y el modo Intro check empezará de forma inmediata.

- 2 Si la unidad está parada o en pausa, pulse el botón **▶ PLAY** para iniciar este modo Intro check.
- 3 Pulse el botón **■ STOP** para detener la reproducción y desactivar el modo Intro check.  
Pulse de nuevo el botón **INTRO CHECK** para desactivar el modo Intro check y seguir con la reproducción normal.

## Función Power on play

Por medio de un temporizador externo convencional, puede hacer que esta unidad se ponga en marcha y comience la reproducción en un momento concreto.

- 1 Primero, conecte el cable de alimentación de esta unidad para que reciba la corriente desde el temporizador.
- 2 Cargue el disco que quiera reproducir.
- 3 Ajuste el elemento de menú **07 P onPL** a **ON** (valor por defecto: **OFF**).



- 4 Deje el interruptor **POWER** de esta unidad en **ON**, apague el temporizador y ajuste dicho temporizador para que se encienda en un momento concreto. En dicho instante, el temporizador dará paso a la corriente al reproductor, el que se encenderá y hará que comience la reproducción de forma automática.

### NOTA

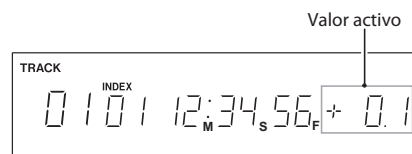
El estado on/off de esta función power on play queda memorizado incluso después de apagar la unidad.

## Control de tono de la reproducción

Usando esta función, esta unidad puede modificar el tono (y la velocidad) de la reproducción.

Siga estos pasos para usar este control de tono.

Cuando esta función esté activada, en la parte derecha de la pantalla aparecerá **PITCH** y el valor de ajuste.



**Usando los botones del panel frontal:**

En el modo secundario (piloto **SHIFT** encendido), pulse el botón **JOG [PITCH]** para activar esta función. También puede hacer esto pulsando el botón **JOG [PITCH]** mientras mantiene pulsado el botón **SHIFT**.

Tras pulsar el botón **SHIFT**, pulse el botón **MENU [PITCH %]** para activar el modo de ajuste de tono y use el mando **TRACK SKIP/DATA** para ajustar el valor en el rango entre  $-16\%$  y  $+16\%$ . El valor de ajuste parpadeará mientras lo esté ajustando. También puede activar el modo de ajuste de tono pulsando el botón **MENU [PITCH%]** mientras mantiene pulsado el botón **SHIFT**.

Una vez que haya realizado el ajuste, pulse el botón **SHIFT** y después el botón **MENU [PITCH%]** para salir del modo de ajuste. También puede salir de este modo pulsando el botón **MENU [PITCH%]** mientras mantiene pulsado el botón **SHIFT**.

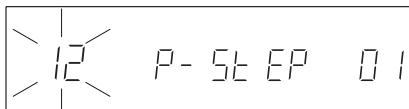
## 6 – Funciones de reproducción diversas

### Usando el mando a distancia:

Pulse el botón **PITCH** para activar esta función de control de tono. Use los botones + y – para ajustar su valor en el rango –16% y +16%.

### Ajuste del incremento de valor de tono

Para ajustar el incremento del valor para la reproducción con control de tono (paso de tono) use el elemento de menú 12 P-STEP.



Opciones (%): 0.1 (valor por defecto), 0.5, 1.0

#### NOTA

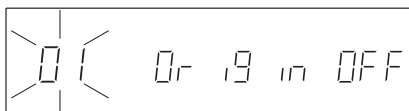
Este ajuste queda memorizado incluso después de apagar la unidad.

### Cambio de la velocidad de reproducción sin cambiar el tono (KEY ORIG)

Habitualmente, al usar la función de control de tono, la velocidad cambia junto con el tono. Sin embargo, cuando active esta función de clave original, el tono no cambiará aunque cambie la velocidad de reproducción.

Use uno de estos métodos para activar o desactivar la función de clave original.

- Pulse el botón **KEY ORIG** del mando a distancia.
- Use el elemento de menú 01 Origin (valor por defecto: OFF).



Cuando esta función esté activada, en la parte inferior de la pantalla aparecerá **KEY ORIG**.

#### NOTA

El estado de la función de clave original queda memorizado incluso después de apagar la unidad.

### Reproducción programada

Ajustando un programa de antemano, puede hacer que la unidad reproduzca las pistas en el orden que quiera. Puede añadir al programa hasta 100 pistas. Para esto, cambie el modo de reproducción al de reproducción programada y ponga en marcha la reproducción. (Vea “Selección del modo de reproducción” en pág. 23).

### Modo de ajuste del programa

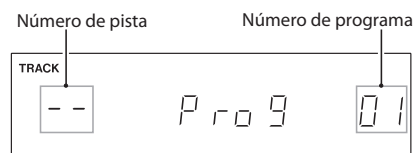
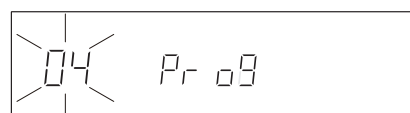
Use estos pasos para acceder al modo de ajuste de programa y añadir pistas a un programa vacío.

#### NOTA

- Puede añadir pistas al programa independientemente del modo de reproducción activo.
- Puede añadir al programa la misma pista varias veces.
- Este ajuste queda memorizado incluso después de apagar la unidad o si expulsa el disco. Esta unidad puede memorizar un programa de hasta 100 pistas.

### Usando los botones del panel frontal:

- 1 Con la unidad parada, elija el elemento de menú 04 Prog y pulse el mando **TRACK SKIP/DATA** para acceder al modo de ajuste de programa. En la pantalla aparecerá lo siguiente.



- 2 Use el teclado numérico o el mando **TRACK SKIP/DATA** para elegir el número de la pista que quiera añadir al número de programa que aparezca en pantalla. El número de la pista elegida parpadeará.
- 3 Pulse el botón **SEARCH ►► [AUTO READY]** para añadir la pista elegida. Aparecerá entonces el siguiente número de programa.
- 4 Repita los pasos 2 y 3 para añadir pistas tantas veces como sea necesario.

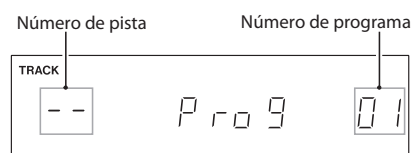
#### NOTA

Tras elegir una pista, al girar el mando **TRACK SKIP/DATA** a la derecha o pulsar el botón **SEARCH ►► [AUTO READY]** añadirá esa pista al programa. Si sale del modo de ajuste de programa sin hacer esto, la pista elegida justo antes no será añadida al programa.

- 5 Cuando haya terminado de añadir pistas al programa, pulse el mando **TRACK SKIP/DATA** para salir del modo de ajuste de programa.

### Usando el mando a distancia:

- 1 Con la unidad parada, pulse el botón **PGM** para acceder al modo de ajuste de programa. En la pantalla aparecerá lo siguiente.



- 2 Use el teclado numérico o los botones **SKIP ◀◀ / ▶▶** para elegir el número de la pista

que quiera añadir al número de programa que aparezca en pantalla. El número de la pista elegida parpadeará.

- 3 Pulse el botón **SEARCH** ►► para añadir la pista elegida. Aparecerá entonces el siguiente número de programa.
- 4 Repita los pasos 2 y 3 para añadir pistas tantas veces como sea necesario.

### NOTA

*Tras elegir una pista, el pulsar el botón **SEARCH** ►► añadirá esa pista al programa. Si sale del modo de ajuste de programa sin hacer esto, la pista elegida justo antes no será añadida al programa.*

- 5 Cuando haya terminado de añadir pistas al programa, pulse el botón **PGM** para salir del modo de ajuste de programa.

### Verificación del programa

Con la unidad parada, siga el paso 1 de “Modo de ajuste del programa” anterior para acceder al modo de ajuste de programa y siga después estos pasos.

#### Usando los botones del panel frontal:

Use los botones **SEARCH** ◀◀/▶▶ [**AUTO CUE/AUTO READY**] para elegir el número de programa cuya pista quiera verificar. El número de la pista aparecerá a la derecha del número de programa.

#### Usando el mando a distancia:

Use los botones **SEARCH** ◀◀/▶▶ para elegir el número de programa cuya pista quiera verificar. El número de la pista aparecerá a la derecha del número de programa.

### Edición del programa

Puede modificar el contenido del programa.

Con la unidad parada, siga el paso 1 de “Modo de ajuste del programa” anterior para acceder al modo de ajuste de programa y siga después estos pasos.

#### ■ Cambio de las pistas del programa

##### Usando los botones del panel frontal:

- 1 Use los botones **SEARCH** ◀◀/▶▶ [**AUTO CUE/AUTO READY**] para elegir el número de programa a modificar.
- 2 Use el teclado numérico o el mando **TRACK SKIP/DATA** para elegir la pista que quiera asignar ahora.
- 3 Pulse el botón **SEARCH** ►► [**AUTO READY**] para confirmar el cambio.

##### Usando el mando a distancia:

- 1 Use los botones **SEARCH** ◀◀/▶▶ para elegir el número de programa a modificar.
- 2 Use el teclado numérico o los botones **SKIP** |◀◀/▶▶| para elegir la pista a asignar.
- 3 Pulse el botón **SEARCH** ►► para confirmar el cambio.

#### ■ Inserción de pistas en el programa

##### Usando los botones del panel frontal:

- 1 Use los botones **SEARCH** ◀◀/▶▶ [**AUTO CUE/AUTO READY**] para elegir el número de programa en el que quiera insertar una pista.
- 2 Pulse el botón **SEARCH** ►► [**AUTO READY**] mientras mantiene pulsado el botón **SHIFT**.
- 3 Use el teclado numérico o el mando **TRACK SKIP/DATA** para elegir la pista que quiera insertar.
- 4 Pulse el botón **SEARCH** ►► [**AUTO READY**] para insertar la pista.

##### Usando el mando a distancia:

- 1 Use los botones **SEARCH** ◀◀/▶▶ para elegir el número de programa en el que quiera insertar una pista.
- 2 Pulse el botón **A.RDY/INS**.
- 3 Use el teclado numérico o los botones **SKIP** |◀◀/▶▶| para elegir la pista que quiera insertar.
- 4 Pulse el botón **SEARCH** ►► para insertar la pista.

#### ■ Borrado de pistas del programa

##### Usando los botones del panel frontal:

- 1 Use los botones **SEARCH** ◀◀/▶▶ [**AUTO CUE/AUTO READY**] para elegir el número del programa de la pista a eliminar.
- 2 Pulse el botón **SEARCH** ◀◀ [**AUTO CUE**] mientras mantiene pulsado el botón **SHIFT** para eliminar la pista de ese programa.

##### Usando el mando a distancia:

- 1 Use los botones **SEARCH** ◀◀/▶▶ para elegir el número del programa de la pista a eliminar.
- 2 Pulse el botón **A.CUE/DEL** para eliminar la pista de ese programa.

#### ■ Tras editar el programa

Pulse el botón **PGM** del mando a distancia o el mando **TRACK SKIP/DATA** de la unidad para salir del modo de ajuste de programa.

#### ■ Borrado de todas las pistas del programa

En el modo de ajuste de programa, mantenga pulsado el botón **CLEAR** de la unidad o el botón **CLEAR** del mando a distancia para eliminar todas las pistas del programa.

## 6 – Funciones de reproducción diversas

### Fundido de entrada/salida de reproducción

Puede ajustar esta unidad para que produzca un fundido de entrada al principio de la reproducción y uno de salida cuando detenga o active la pausa de reproducción. Los tiempos de fundido, que determinan cuantos segundos durará el fundido de entrada y salida, pueden ser ajustados de forma independiente. Use el elemento de menú 05 FADE para ajustar esto. El manejo de este elemento de menú es ligeramente distinto al de los otros. Use estos pasos con este elemento.

- 1 Elija el elemento de menú 05 FADE.



Pulse el mando **TRACK SKIP/DATA** para acceder al modo de ajuste de fundido. Aparecerá esta pantalla.



- 2 Pulse el mando **TRACK SKIP/DATA** o el botón **ENTER** del mando a distancia para acceder al modo de ajuste del fundido de entrada.



- 3 Gire el mando **TRACK SKIP/DATA** de la unidad o use los botones **PREV** y **NEXT** del mando a distancia para ajustar el tiempo de fundido de entrada. Puede ajustar este valor entre 0.5 y 10 segundos en pasos de 0.5 segundos (valor por defecto: OFF).
- 4 Pulse el mando **TRACK SKIP/DATA** o el botón **ENTER** del mando a distancia para confirmar este ajuste y acceder al modo de ajuste de fundido de salida.



- 5 Gire el mando **TRACK SKIP/DATA** de la unidad o use los botones **PREV** y **NEXT** del mando a distancia para ajustar el tiempo de fundido de salida. Puede ajustar este valor entre 0.5 y 10 segundos en pasos de 0.5 segundos (valor por defecto: OFF).
- 6 Pulse el mando **TRACK SKIP/DATA** o el botón **ENTER** del mando a distancia para confirmar este ajuste y salir del modo de menú.

La pantalla volverá a su formato habitual.

#### NOTA

- Cuando haya ajustado un fundido de entrada o salida, en la parte inferior de la pantalla aparecerá FADE.

- Para ajustar solo un fundido de salida, en el paso 1 del modo de ajuste de fundido anterior, gire el mando **TRACK SKIP/DATA** de la unidad (o pulse el botón **PREV** o **NEXT** del mando a distancia) hasta que parpadee **OUT**. Después, pulse el mando **TRACK SKIP/DATA** de la unidad (o el botón **ENTER** del mando a distancia) para acceder al modo de ajuste del fundido de salida.
- Para ajustar solo el fundido de entrada, tras el paso 4 anterior, pulse el botón **MENU** de la unidad o del mando a distancia para finalizar el ajuste.
- Los ajustes de estos fundidos quedan memorizados incluso después de apagar la unidad.

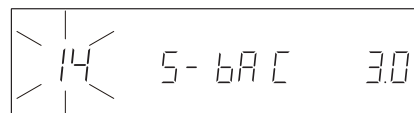
### Reproducción con salto atrás

Durante la reproducción, puede saltar hacia atrás una cantidad de tiempo prefijada y seguir con la reproducción.

Durante la reproducción, pulse el botón ► **[PLAY]** de la unidad o del mando a distancia.

### Ajuste del tiempo de salto atrás

Para esto, use el elemento de menú 14 S-BAC.



Opciones: 0–60 segundos (incrementos de 0.5 segundos, valor por defecto: 3 segundos)

#### NOTA

- Cuando esté activa la función de reproducción consecutiva, esta tendrá prioridad y el salto atrás quedará desactivado si pulsa el botón ► **PLAY** del mando a distancia. Desactive la función de reproducción consecutiva si quiere usar esta función.
- El salto atrás en la reproducción solo es posible con CD audio, no con CD de datos.
- El ajuste del salto atrás en la reproducción queda memorizado incluso después de apagar la unidad.

### Función de arranque flash

El principio de hasta veinte pistas o puntos cue puede ser pre-cargado en la memoria, lo que permitirá que puedan ser reproducidas de forma instantánea (sin retardo).

#### ■ Carga flash de pistas:

Cuando haya añadido pistas al programa y la unidad esté en el modo de reproducción o en el de reproducción programada, el principio de las 20 primeras será cargado en esta memoria.

Cuando NO haya añadido pistas al programa, en esta memoria será cargado el principio de las 20 primeras pistas del disco.

## ■ Carga flash de puntos cue:

Los puntos cue ajustados serán cargados en la memoria.

### NOTA

- Esta función de arranque flash solo es posible con los CD audio, no con los CD de datos.
- Cuando use este arranque flash, las funciones Auto-cue y Auto-ready quedarán desactivadas.

### Usando los botones del panel frontal:

- 1 Para usar un programa para el arranque flash de pistas, programe la pistas previamente y ajuste el modo de reproducción al de reproducción programada. Para el arranque flash con puntos cue, ajústelos previamente y active el modo cue (indicador CUE iluminado).
- 2 Pulse el botón FLASH.
- 3 Durante la carga del principio de las pistas o puntos cue en la memoria, en la pantalla parpadeará FLASH. Una vez que haya terminado esa carga, aparecerá FLASH 01-10 en la pantalla, el indicador FLASH se iluminará y ► PLAY parpadeará.
- 4 Pulse el botón numérico del número de programa (cuando lo haya ajustado), de pista (si no ha configurado ningún programa) o número cue (para el arranque flash con puntos cue) a reproducir.

Para elegir números entre 11 y 20, pulse el botón +10, de forma que en pantalla aparezca FLASH 11-20 y pulse después el botón numérico correspondiente. Pulse de nuevo +10 para volver a FLASH 1-10.

### Usando el mando a distancia:

- 1 Para usar un programa para el arranque flash de pistas, programe la pistas previamente y ajuste el modo de reproducción al de reproducción programada. Para el arranque flash con puntos cue, ajústelos previamente y active el modo cue (indicador CUE iluminado).
- 2 Pulse el botón FLASH.
- 3 Durante la carga del principio de las pistas o puntos cue en la memoria, en la pantalla parpadeará FLASH. Una vez que haya terminado esa carga, aparecerá FLASH 01-10 en la pantalla, el indicador FLASH se iluminará y ► PLAY parpadeará.
- 4 Pulse el botón numérico del número de programa (cuando lo haya ajustado), de pista (si no ha configurado ningún programa) o número cue (para el arranque flash con puntos cue) a reproducir.

Para elegir números entre 11 y 20, pulse el botón CLEAR, de forma que en pantalla aparezca FLASH 11-20 y pulse después el botón numérico correspondiente. Pulse de nuevo CLEAR para volver a FLASH 1-10.

## ■ Salida del modo de arranque flash

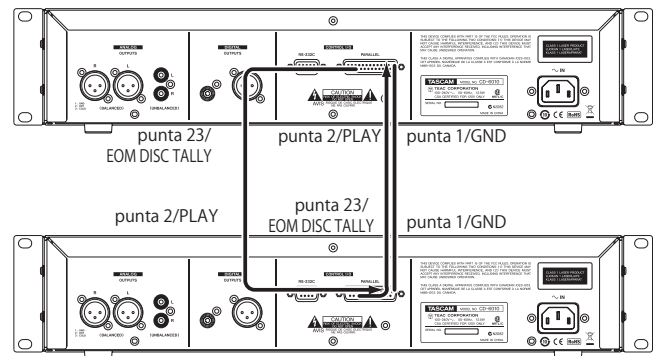
Pulse el botón FLASH de la unidad o del mando a distancia. El indicador FLASH se apagará.

## Reproducción por relé

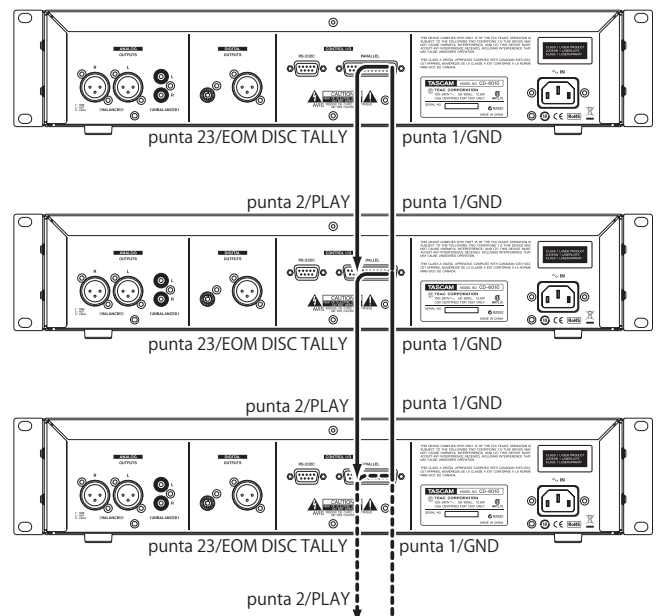
Puede usar juntas varias unidades CD-6010 y ajustarlas de forma que cuando termine la reproducción en una de ellas, comience automáticamente en otra.

Para ello, conecte la punta "23 EOM DISC TALLY" del conector CONTROL I/O PARALLEL del panel trasero de una unidad a la punta "2 PLAY" del conector CONTROL I/O PARALLEL de la siguiente (con un cable y ajuste DISC EOM a 0 en ambas unidades. (Vea "Aviso de final de disco (EOM de disco)" en pág. 32).

Al conectar dos unidades CD-6010 en ambos sentidos como puede ver en la ilustración de abajo, también es posible la reproducción alternativa entre ellas.



Si conecta tres o más unidades CD-6010 en secuencia (CONTROL I/O PARALLEL "2 PLAY" a CONTROL I/O PARALLEL "EOM DISC TALLY") tal como puede ver en el gráfico siguiente, será posible la reproducción automática de una unidad tras otra.



## 7 – Otras funciones

### Cambio del modo de indicación de tiempo de reproducción

Puede elegir el modo de indicación de tiempo de reproducción que será visualizado en la pantalla.

Durante la reproducción o en pausa, pulse el botón **DISPLAY [LOCK]** de la unidad o el botón **DISPLAY** del mando a distancia. Cada pulsación del botón hará que vaya pasando por los tres tipos de indicación del tiempo. El modo de indicación activo aparecerá en la zona de indicación del modo de tiempo de reproducción.

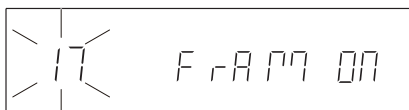
- **T.REMAIN:** ha elegido el tiempo restante total
- **REMAIN:** tiempo restante de la pista activa
- **Nada:** tiempo transcurrido de la pista activa

#### NOTA

- Cuando un CD audio esté detenido, siempre será visualizado el tiempo de grabación total independientemente de si en pantalla aparece la indicación **T.REMAIN** o **REMAIN**.
- Para los CD de datos, ni será mostrado el tiempo total con la unidad parada, ni el tiempo restante o el restante total durante la reproducción. (Solo aparecerá el número de pistas o el número de la pista activa).
- En el modo de reproducción programada, la indicación de tiempo restante le mostrará el tiempo que queda hasta el final de la reproducción del programa. En el modo de reproducción única, el tiempo restante le mostrará el tiempo restante de la pista elegida.
- En el modo de reproducción programada, el tiempo total mostrado será el del programa.
- El ajuste del modo de indicación del tiempo de reproducción queda memorizado incluso después de apagar la unidad.

### Ajuste de la indicación de tiempo de secuencia

Puede elegir si la indicación de secuencias aparecerá durante la reproducción en la pantalla de tiempo. Para ajustar esto, use el elemento de menú 17 **FRAM** (valor por defecto: **ON**).



#### NOTA

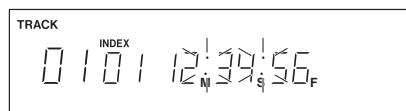
Este ajuste queda memorizado incluso después de apagar la unidad.

### Aviso de final de pista (TRACK EOM)

Cuando esté cerca del final de una pista, puede aparecer una indicación de aviso en este sentido y puede ser emitida una señal "21 EOM TRACK TALLY" a través del conector **CONTROL I/O PARALLEL**. Con los CD de datos, no aparecerá en pantalla este aviso. La señal "21

EOM TRACK TALLY" será emitida a través del conector **CONTROL I/O PARALLEL** como un pulso cuando termine la reproducción del fichero.

Si ajusta de antemano la cantidad de segundos antes de que la pista llegue al final en que aparecerá el aviso, cuando la reproducción llegue a ese punto, el icono "⏏" comenzará a parpadear en la pantalla de tiempos. A la vez, será emitida la señal "21 EOM TRACK TALLY" a través del conector **CONTROL I/O PARALLEL**.



Use el elemento de menú 10 **EOM\_T** para ajustar el valor entre las siguientes opciones.



Opciones: **OFF**, 0, 5, 10, 15, 20, 25, 30 (valor por defecto), 35

Para cualquier valor distinto a **OFF**, el número indica la cantidad de segundos antes del final de la pista en la que se producirá el aviso. No obstante, con el valor 0, no aparecerá ningún aviso en pantalla cuando termine la reproducción de la pista, pero sí será emitida la señal "21 EOM TRACK TALLY" a través del conector **CONTROL I/O PARALLEL** como un pulso.

En el valor por defecto, el "⏏" empezará a parpadear 30 segundos antes del final de la pista y será emitida la señal "21 EOM TRACK TALLY" a través del conector **CONTROL I/O PARALLEL**.

#### NOTA

El ajuste de esta función **TRACK EOM** queda memorizado incluso después de apagar la unidad.

### Aviso de final de disco (EOM de disco)

Puede configurar la unidad para que emita una señal "23 EOM DISC TALLY" desde el conector **CONTROL I/O PARALLEL** cuando esté unos cuantos segundos antes del final del disco.

Use el elemento de menú 06 **EOM\_D** para ajustar el tiempo de esta función EOM.

Opciones: **OFF**, 0, 5, 10, 15, 20, 25, 30 (valor por defecto), 35

Para cualquier valor distinto a **OFF**, el número indica la cantidad de segundos antes del final del disco en la que se producirá el aviso. Con el valor 0, será emitida una señal "23 EOM DISC TALLY" por el conector **CONTROL I/O PARALLEL** como un pulso cuando el disco se detenga.

#### NOTA

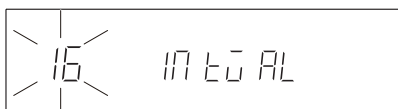
El ajuste de esta función **DISC EOM** queda memorizado incluso después de apagar la unidad.

## Ajuste del tiempo de intervalo

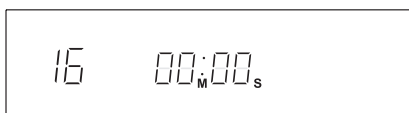
Puede configurar el reproductor para que espere un tiempo determinado (tiempo de intervalo) tras terminar la reproducción de una pista antes de que empiece con la reproducción de la pista siguiente.

Para ajustar este intervalo de tiempo, use el elemento de menú 16 INTVAL.

- 1 Elija el elemento de menú 16 INTVAL.



- 2 Pulse el mando TRACK SKIP/DATA para acceder a este modo de ajuste de intervalo de tiempo. Aparecerá entonces la pantalla siguiente.



- 3 Gire el mando TRACK SKIP/DATA para ajustar el tiempo de intervalo y pulse ese mismo mando para confirmar el ajuste.

Rango de ajuste: 0–5 minutos (incrementos de 10 segundos, valor por defecto: 0 segundos)

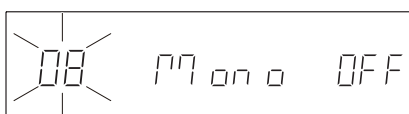
### NOTA

Este ajuste del intervalo de tiempo queda memorizado incluso después de apagar la unidad.

## Salida en mono

Este reproductor puede emitir señales analógicas y digitales en mono.

Para ello, ajuste el elemento de menú 08 Mono a ON (valor por defecto: OFF).



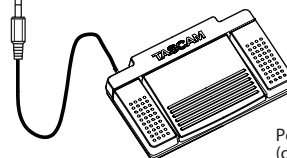
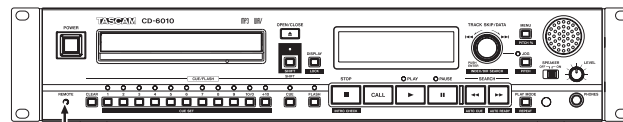
Cuando esté activa la salida mono, en la parte inferior de la pantalla aparecerá MONO.

### NOTA

El ajuste de salida mono queda memorizado incluso después de apagar la unidad.

## Control del reproductor con una pedalera

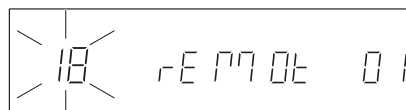
Puede conectar una pedalera TASCAM RC-3F (opcional) a la toma REMOTE del panel frontal y usarla para controlar esta unidad.



Pedalera TASCAM RC-3F (opcional)

## Ajuste de la pedalera

Para configurar la pedalera, use el elemento de menú 18 REMOT para asignar funciones a los interruptores de control (pedales).



Opciones: OFF, 1 (valor por defecto), 2, 3, 4

## Uso de la pedalera

Cuando pulse los controles (pedales) de la pedalera, estos se comportará de acuerdo al ajuste del elemento de menú 18 REMOT.

## Ajustes del modo de pedalera

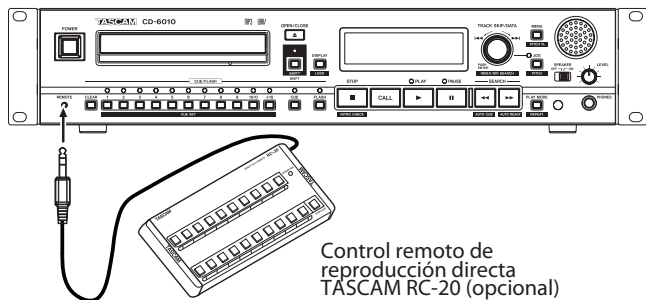
Las funciones de los pedales en cada modo son estas.

MODO	Controles de la pedalera		
	L (pulsación corta)	C (pulsación corta)	R (pulsación corta)
	L (puls. larga)	C (puls. larga)	R (puls. larga)
1	⏮	PLAY/PAUSA	⏭
	⏪	STOP	⏩
2	SALTO ATRÁS	PLAY/PAUSA	CALL
	⏮	STOP	⏩
3	TONO (-)	PLAY/PAUSA	TONO (+)
	TONO (-) continuo	STOP	TONO (+) continuo
4	PAUSA	PLAY	STOP
	---	---	---

## 7 – Otras funciones

### Control del reproductor con un control remoto de reproducción directa

Puede conectar un control remoto de reproducción directa TASCAM RC-20 (opcional) a la toma REMOTE del panel frontal para usar la función de reproducción directa de esta unidad.

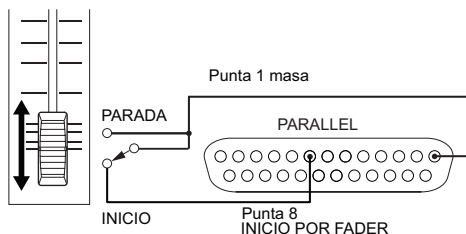


### Inicio por fader y evento

#### Inicio y parada por fader

Si conecta un fader externo a la toma **CONTROL I/O PARALLEL**, podrá poner en marcha y detener la reproducción con él.

Conecte el fader externo a la toma **CONTROL I/O PARALLEL** tal como le mostramos aquí abajo.



Para más detalles acerca del uso del conector **CONTROL I/O PARALLEL**, vea "Uso del conector paralelo" en pág. 35.

#### Inicio por evento

Con la unidad detenida o en pausa, puede poner en marcha la reproducción dando entrada a una señal de pulso de un solo disparo desde el exterior. De entrada a este tipo de pulso (activo bajo, 30 ms o superior) a través de la punta "2 PLAY" del conector **CONTROL I/O PARALLEL**.

### Uso del conector RS-232C

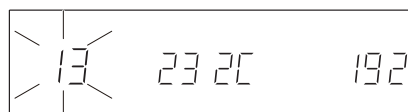
Puede usar el conector **CONTROL I/O RS-232C** (sub D de 9 puntas, de acuerdo a RS-232C) para el control serie de esta unidad por un ordenador u otro dispositivo externo.

### Ajuste de la velocidad de baudios

Use el elemento de menú 13 232C para ajustar la velocidad de baudios.

Elija entre 96 (9600 bps, valor por defecto), 192 (19200 bps) o 384 (38400 bps).

Para más detalles, póngase en contacto con el departamento de soporte técnico de TASCAM.



#### NOTA

El ajuste de la velocidad de baudios queda memorizado incluso después de apagar la unidad.

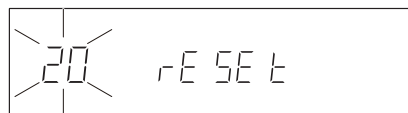
### Restauración a valores de fábrica

Puede restaurar la unidad a los valores de fábrica almacenados en la memoria de seguridad. En esta memoria están almacenados los valores de los siguientes ajustes:

- Modo de reproducción
- Modo de indicación de tiempo de reproducción
- On/off de función Auto-ready
- On/off de función Auto-cue
- On/off de función de repetición
- Diversos ajustes de menú (Vea "Estructura del menú" en pág. 19).

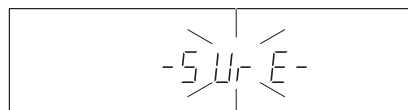
#### Para restaurar todos los ajustes a los valores de fábrica

- 1 Elija el elemento de menú 20 RESET.



- 2 Pulse el mando TRACK SKIP/DATA.

En la pantalla parpadeará -SURE-.



- 3 Pulse el mando TRACK SKIP/DATA de la unidad o el botón ENTER del mando a distancia para restaurar todos los ajustes a los valores de fábrica almacenados en la memoria de seguridad y salir del modo de menú.

La pantalla volverá al modo normal de indicación de disco y pista.

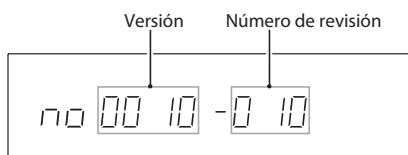
## Comprobación de la versión de firmware

Para comprobar la versión del firmware, use el elemento de menú 21 INFO.

- 1 Elija el elemento de menú 21 INFO.



- 2 Pulse el mando TRACK SKIP/DATA de la unidad o el botón ENTER del mando a distancia para ver en pantalla la versión del firmware.

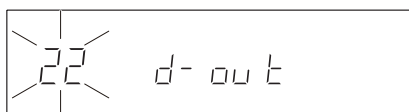


- 3 Pulse de nuevo el mando TRACK SKIP/DATA de la unidad o el botón ENTER del mando a distancia para volver a la selección del elemento de menú.

## Ajuste del formato de salida digital

Puede ajustar el formato de la señal de salida digital de las tomas **COAXIAL** y **XLR DIGITAL OUTPUTS**. Para ello dispone del elemento de menú 22 D-OUT. Las opciones disponibles son las siguientes (valor por defecto: AES).

- SPD S/PDIF (no profesional)
- AES AES/EBU con bit U (profesional)
- AE\_ AES/EBU sin bit U (profesional)



### NOTA

El ajuste del formato de salida digital queda memorizado incluso después de apagar la unidad.

## Atenuación de salida analógica

Puede configurar la unidad de forma que el nivel de la salida analógica sea atenuado en -4 dB. Ajuste esto de la forma adecuada para el equipo que tenga conectado a las salidas.

Use el elemento de menú 19 ATT para elegir si usa o no la atenuación de -4 dB (valor por defecto: OFF).

### NOTA

El ajuste de atenuación queda memorizado incluso después de apagar la unidad.

## Uso del conector paralelo

Por medio del conector **CONTROL I/O PARALLEL**, puede usar un controlador paralelo externo para usar esta unidad a distancia.

Nº punta	Función (Punta 14 = H o abierta)	Función (Punta 14 = L)	E/S
1	GND	GND	-
2	PLAY	FLASH 1	E
3	STOP	FLASH 2	E
4	INDEX/DIR SEARCH FWD	FLASH 3	E
5	TRACK SKIP FWD [▶▶]	FLASH 4	E
6	TRACK SKIP REV [◀◀]	FLASH 5	E
7	INDEX/DIR SEARCH REV	STOP/LOAD	E
8	FADER START/STOP	(reservado)	E
9	FLASH LOAD TALLY	FLASH LOAD TALLY	S
10	PAUSE TALLY	PAUSE TALLY	S
11	NO DISC TALLY	(reservado)	S
12	STOP TALLY	STOP TALLY	S
13	PLAY TALLY	PLAY TALLY	S
14	REMOTE SELECT*	REMOTE SELECT*	E
15	PAUSE	FLASH 6	E
16	CALL	FLASH 7	E
17	SEARCH FWD [▶▶]	FLASH 8	E
18	SEARCH REV [◀◀]	FLASH 9	E
19	(reservado)	FLASH 10	E
20	(reservado)	FLASH PAGE**	E
21	EOM TRACK TALLY	EOM TRACK TALLY	S
22	(reservado)	(reservado, fijo alto)	S
23	RELAY OUT (EOM DISC TALLY)	(reservado)	S
24	(reservado)	(reservado, fijo bajo)	S
25	+5V*	+5V*	-

E (entrada): recepción de orden externa baja activa (actúa cuando la masa es 30 ms o de más duración)

S(salida): señal para la visualización de estado de transporte por colector abierto (voltaje máximo 20 V, corriente máxima 35 mA, 10 Ω impedancia)

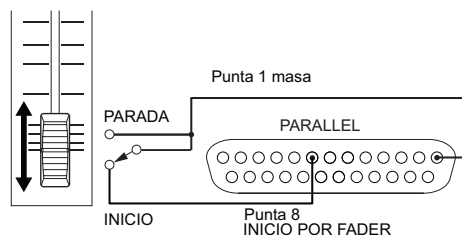
\*Cuando la punta 14 (REMOTE SELECT) es alta (H) o abierta, están activas las funciones de la columna izquierda y puede usar el control paralelo ordinario. Cuando esté ajustada a baja (L), estarán activas las funciones de la columna derecha y podrá usarlas como teclas de arranque flash.

\*\*Cuando la punta 14 (REMOTE SELECT) esté baja, el estado alta/baja de la punta 20 (FLASH PAGE) determina las asignaciones de pista de la forma siguiente.

\*\*\*100 mA corriente máxima

#14	#20	Pistas arranque flash
Baja	Alta	1-10
Baja	Baja	11-20

El ejemplo de conexión siguiente le muestra el control de reproducción por un inicio/parada de fader.



## 8 – Resolución de problemas

Si esta unidad no funciona correctamente, compruebe los siguientes aspectos. Si, aun así, estas medidas no solucionan el problema, póngase en contacto con el comercio en el que adquirió la unidad o con el servicio técnico oficial TASCAM más cercano.

### ■ La unidad no se enciende

Asegúrese de que el cable de alimentación está firmemente conectado a la toma.

### ■ No puedo controlar la unidad desde el panel frontal

Asegúrese de que no esté activa la función de bloqueo de panel.

### ■ No puedo controlar esta unidad desde el mando a distancia.

Compruebe que ha instalado las pilas en el mando a distancia y que tienen carga suficiente.

### ■ No hay sonido

Compruebe las conexiones de esta unidad con el sistema de monitorización y verifique el volumen del amplificador.

### ■ No puedo reproducir un CD

- Si se trata de un CD de datos que contenga ficheros MP3, compruebe que estos ficheros usan una velocidad de bits que pueda ser gestionada con esta unidad.
- Compruebe que ese disco no esté rayado o sucio.

### ■ Se oyen ruidos

Compruebe que el cable de conexión de salida esté en buen estado y que esté perfectamente introducido en las unidades.

## 9 – Mensajes de error

Cuando aparezca uno de los siguientes mensajes de error, consulte la respuesta en la tabla siguiente y solucione la causa que lo haya producido. Si no puede resolver el problema, póngase en contacto con el servicio técnico TASCAM.

Mensaje	Significado	Respuesta
Err01	Error de lectura TOC	Limpie o cambie el disco.
Err09	Error de ROM flash	Si aparece uno de estos programas, apague y vuelva a encender la unidad. Si no puede apagar la unidad de la forma habitual, desconecte el cable de corriente.
Err10	Error SDRAM	
Err13	Error SYSTEM	

# 10 – Especificaciones técnicas

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## Soporte y formatos

---

### Tipo de dispositivo

Reproductor de CD

### Discos compatibles

Compact discs (12/8 cm, incluyendo discos CD-R)

### Tipos de discos que pueden ser reproducidos

CD-A, CD-ROM (formato ISO9660 LEVEL 1/2/JOLIET)

### Formatos de ficheros reproducibles

Audio CD (CD-DA), MP3 (MPEG Audio Layer III), WAV

### Especificaciones de reproducción MP3

Modos audio: stereo/mono

Frecuencia de muestreo: 32/44.1/48 kHz

Velocidad de bits: 32 kbps–320 kbps y VBR

### Especificaciones de reproducción WAV

Frecuencia de muestreo: 32/44.1/48 kHz

Velocidad de bits: 16 bits

### Especificaciones de reproducción CD audio

Frecuencia de muestreo: 44.1 kHz

Velocidad de bits: 16 bits

Número de canales: 2

---

## Salida audio analógica

---

### Conectores de salida analógica (no balanceado)

Conector: RCA

Impedancia de salida: 200  $\Omega$

Nivel de salida standard: –10 dBV (0.32 Vrms)

Nivel de salida máximo: +6 dBV (2.0 Vrms)

### Conectores de salida analógica (balanceado)

Conector: XLR-3-32 (1: masa, 2: activo, 3: pasivo)

Impedancia de salida: 100  $\Omega$

Nivel de salida standard: +4 dBu (1.23 Vrms)

Nivel de salida máximo: +24 dBu (12.28 Vrms)

### Conector PHONES

Conector: Clavija stereo standard de 6.3 mm (1/4")

Nivel de salida máximo: 45 mW + 45 mW o superior  
(THD+N 0.1% o inferior, 32  $\Omega$  carga)

---

## Salida audio digital

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### Conector de salida digital (COAXIAL)

Conector: RCA

Formatos de señal admitidos: IEC 60958-3 standard para uso no profesional, IEC 60958-4 para uso profesional

Impedancia de salida: 75  $\Omega$

Nivel de salida: 0.5 Vp-p

### Conector de salida digital (XLR)

Conector: XLR-3-32 (1: masa, 2: activo, 3: pasivo)

Formatos de señal admitidos: IEC 60958-3 standard para uso no profesional, IEC 60958-4 para uso profesional

Impedancia de salida: 110  $\Omega$

---

## Entrada y salida de control

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### Conector REMOTE

Conector: TRS de 2.5 mm

### Conector RS-232C

Conector: sub D de 9 puntas (hembra)

### Conector CONTROL I/O PARALLEL

Conector: sub D de 25 puntas (hembra)

---

## Rendimiento audio

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### Respuesta de frecuencia

20 Hz–20 kHz:  $\pm 0.5$  dB (JEITA)

### Relación señal-ruido

95 dB o superior (JEITA)

### Rango dinámico

95 dB o superior (JEITA)

### Distorsión

0.005% o inferior (JEITA)

### Separación de canales

95 dB o superior (1 kHz, JEITA)

## Memoria de seguridad

Los ajustes siguientes quedan memorizados incluso después de apagar la unidad.

- Modo de reproducción
- Modo de indicación de tiempo de reproducción
- On/off de función Auto-ready
- On/off de función Auto-cue
- Ajustes cue
- On/off de función de repetición
- Diversos ajustes de menú

## General

### Alimentación

Corriente alterna 100-240 V, 50-60 Hz

### Consumo

12.5 W

### Dimensiones (L x A x P)

483 x 94 x 306 mm

### Peso

4.9 kg

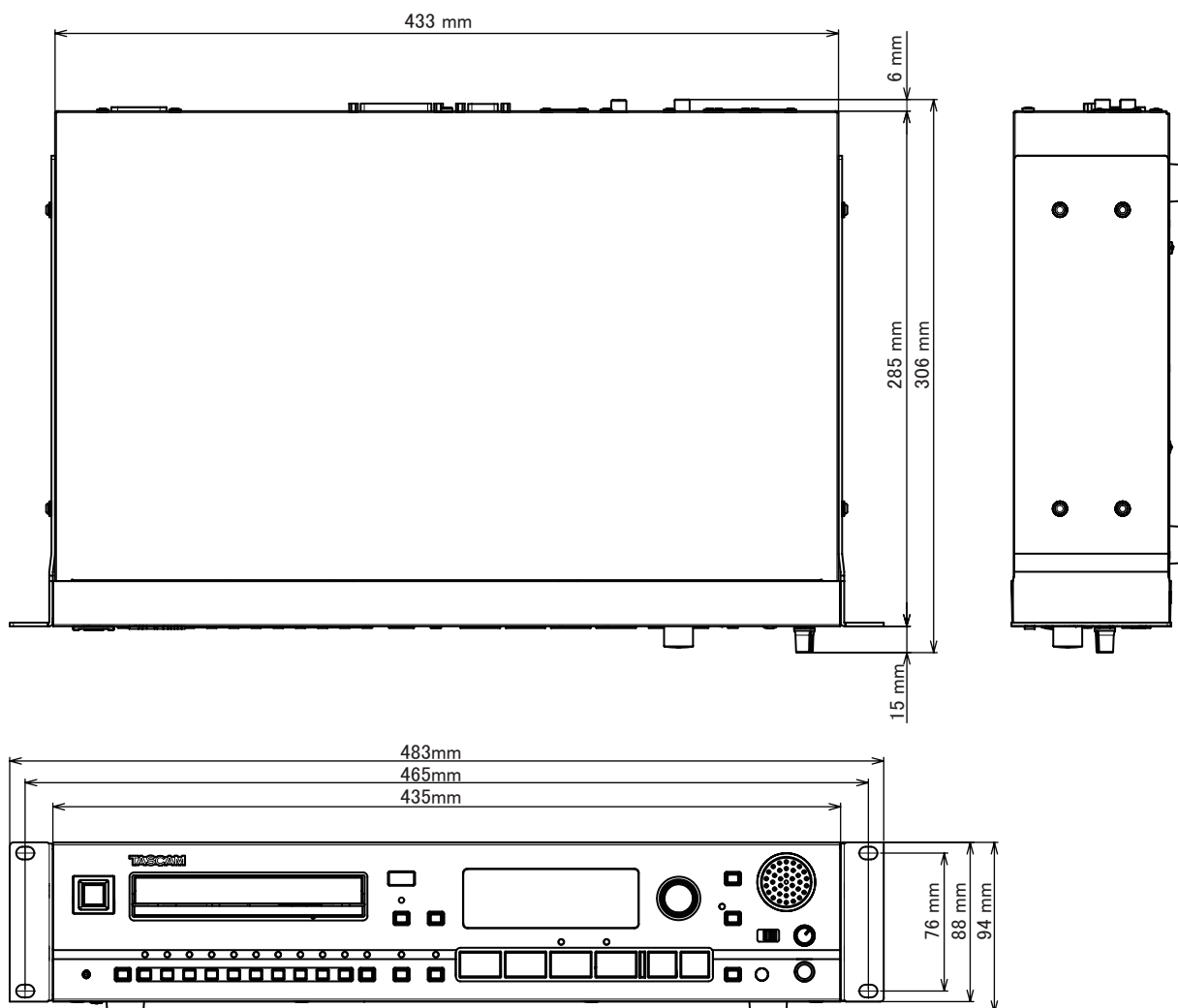
### Rango de temperaturas operativas

5°-35° C

### Ángulo máximo de inclinación

Hasta 15°

## Esquema de dimensiones



- Las ilustraciones y otras imágenes mostradas aquí pueden variar con respecto a las del aparato real.
- De cara a mejoras en el producto, tanto las especificaciones como el aspecto exterior están sujetos a cambios sin previo aviso.

# TASCAM

# CD-6010

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Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany

[tascam.de](http://tascam.de)

**TEAC****TECHNICAL INFORMATION**No. **1709****TASCAM CD-6010, Drive FW update**

DATE 27th Jun. 2017

**Target model**

CD-6010

**Failure content**

Regarding the drive (1977237060 CD-5010B-060) build-in CD-6010, offset position in TOC read had been adjusted to wrong position by relation between the disc thickness and the pickup height.

So the drive FW is updated for improvement.

**Countermeasure**

The pickup search height in offset adjustment is changed by updating the drive FW from Y0JYAA to Y0NYAA. (Y0JYAA -> Y0NYAA) Height: 0.6mm -> 0.85mm

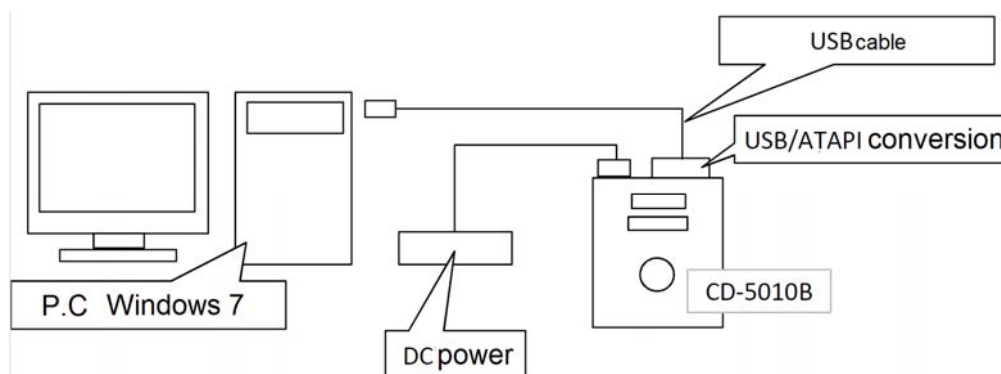
**Equipment used**

A set of work PC (Windows7)

DC power supply (PS-3 MINI, or PC power supply having switch)

USB/ATAPI conversion + USB cable

Update software (CD5010B\_Updater.exe)

**Equipment configuration**

1) Connect DC power supply and USB/ATAPI conversion to CD-5010B.

\* In this time, DC power supply is OFF, and not connect USB wiring to PC.



2) Switch on DC power supply.

3) Connect USB wiring to PC.

**TEAC****TECHNICAL INFORMATION**

No. 1709

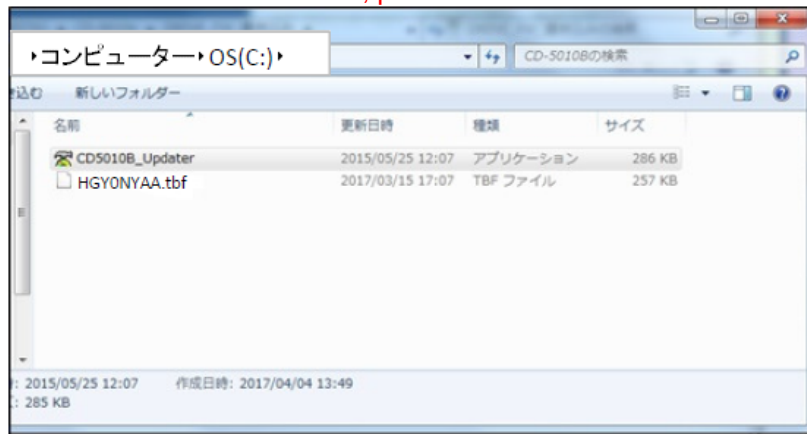
**TASCAM CD-6010, Drive FW update**

DATE 27th Jun. 2017

**Work procedure**

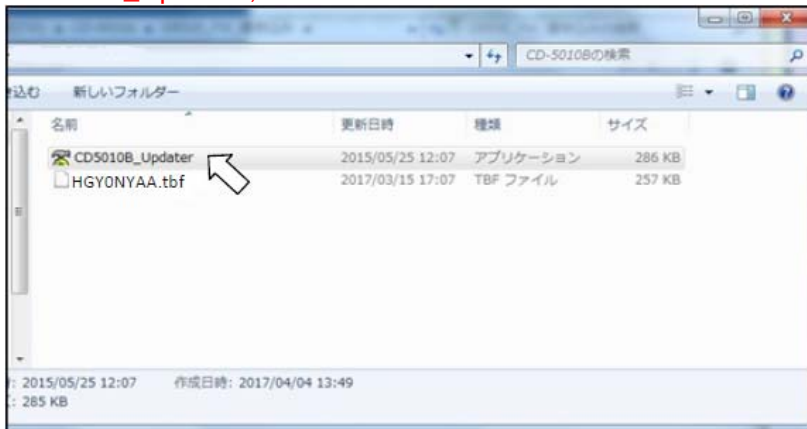
1. Prepare CD5010B Updater and FW(HGY0NYAA.tbf) with placing them to the same folder of PC.

\* If another version FW exists in DRIVE C:, please delete or move it to another folder.



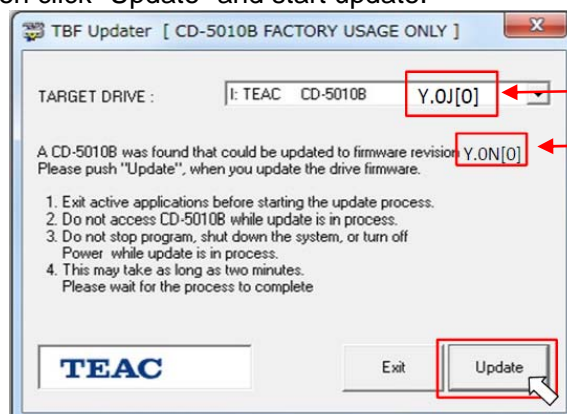
2. Execute CD5010B\_Updater.exe after the drive recognized on PC.

\* Right-click "CD5010B\_Updater", and "Run as administrator".



\* Popup of "User account control" appears in screen, so click "Yes".

3. "TBF Updater" window is displayed, so check the writing data version is "Y.0N[0]". If there is no problem, then click "Update" and start update.



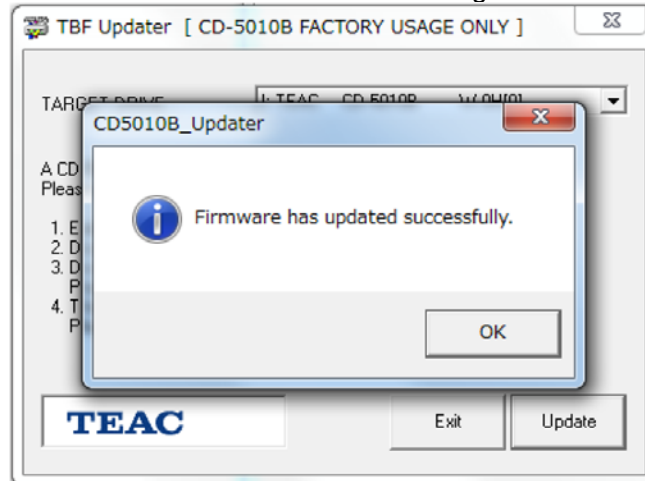
Connected CD-5010B F/W version

F/W version for update

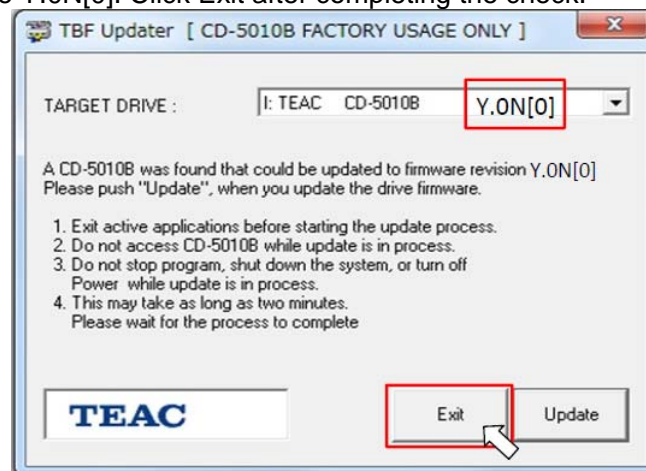
**TEAC****TECHNICAL INFORMATION**No. **1709****TASCAM CD-6010, Drive FW update**

DATE 27th Jun. 2017

4. If update is completed, confirmation popup is displayed, so click "OK" then update operation is completed. Disconnect each cable and return to the original condition.



5. Double-click "CD5010B\_Updater" on PC again, and check that the FW version of connected CD-5010B became Y.0N[0]. Click Exit after completing the check.



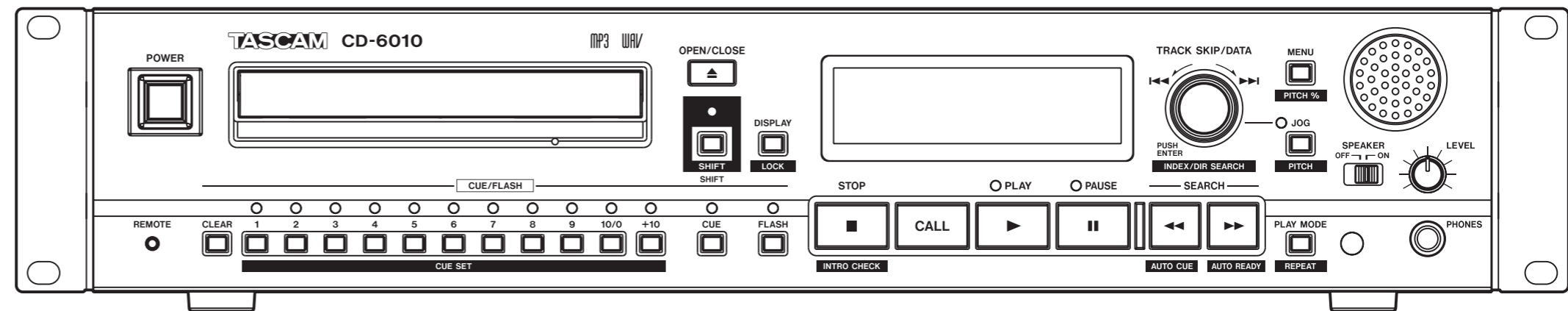
6. Unplug USB cable form PC.
7. Switch off the DC power supply.
8. Unplug DC wiring and USB/ATAPI conversion from CD-5010B.

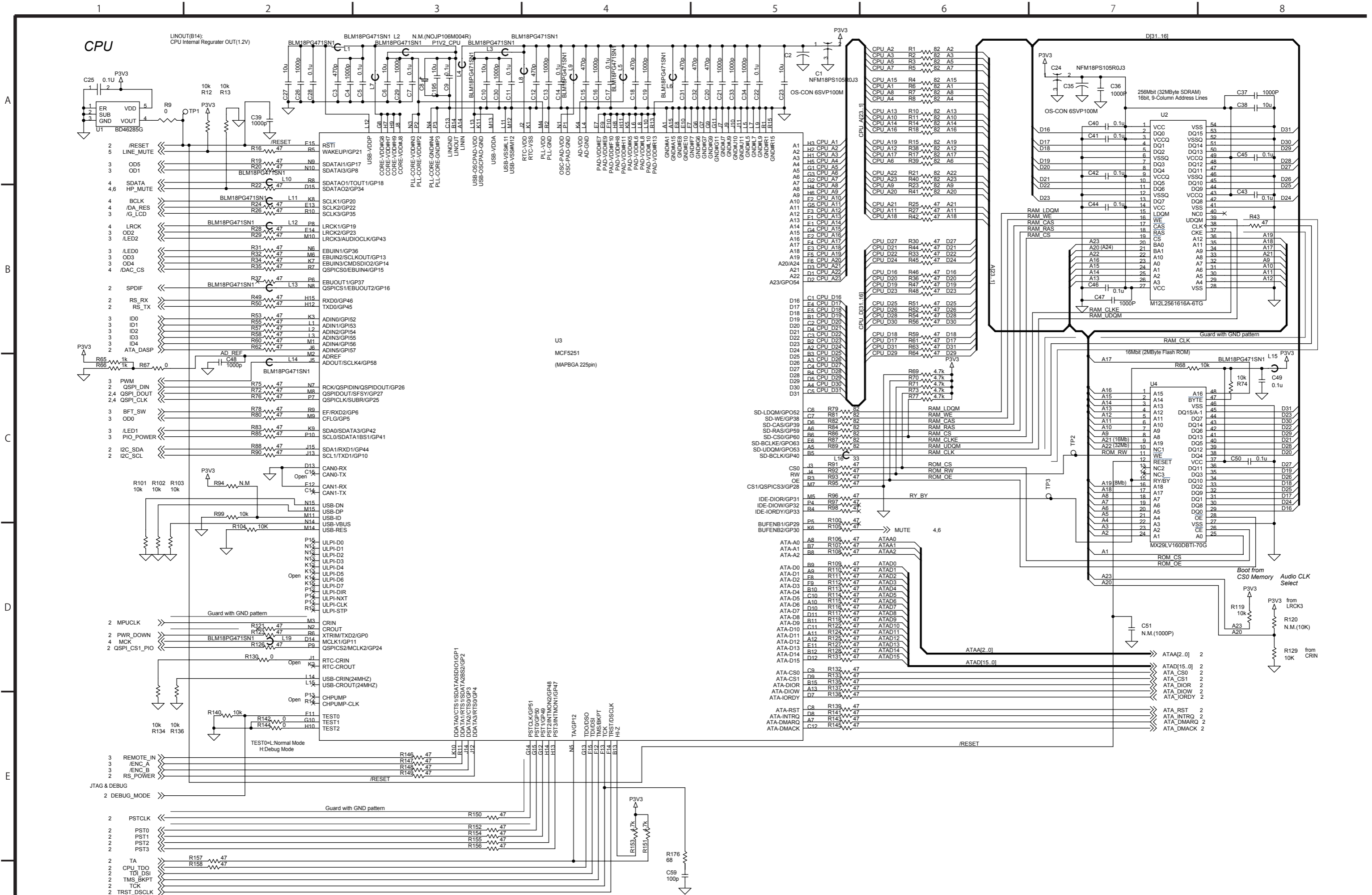
- Version check after mounting CD-5010B to CD-6010

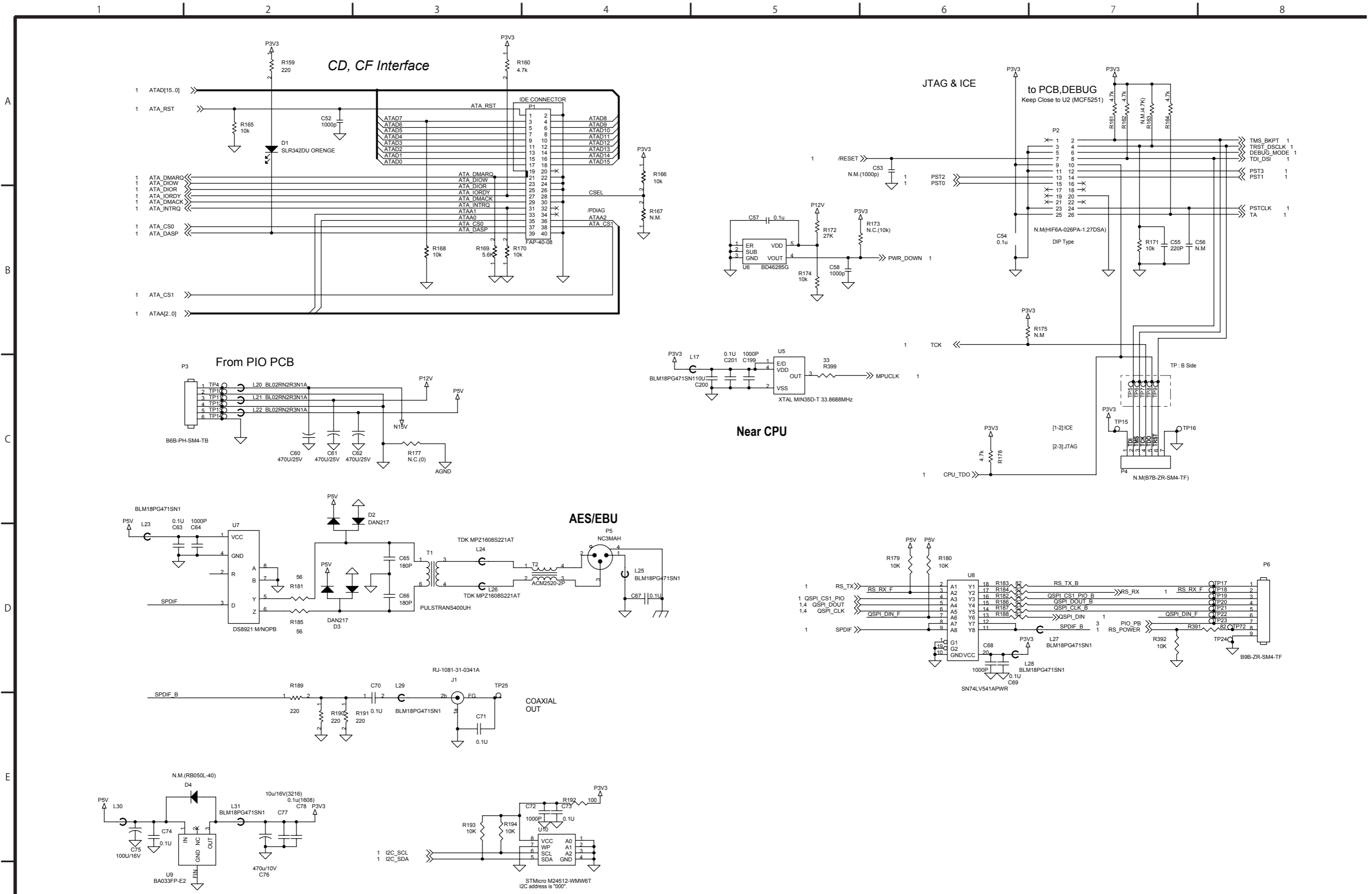
1. Power ON the CD-6010, and press [ENTER] button with pressing the [SHIFT]+[9] after display of "no diSC".
2. Check that the version becomes "drv y-0n". Power off after completing the check.
3. In this time, if old FW "drv y-0J" is displayed, remove the CD-5010B and update the FW by above procedure again.

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MAIN PCB (1/6).....	2
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FRONT PCB (2/2).....	12
J CDX05 PCB (LCD).....	13
AC SW / INLET/REMOTE / HP_SLIDE_SW / HP_MAIN / HP_VR.....	14







1 2 3 4 5 6 7 8

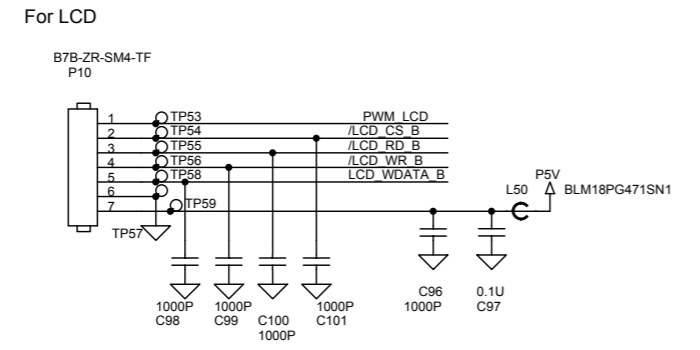
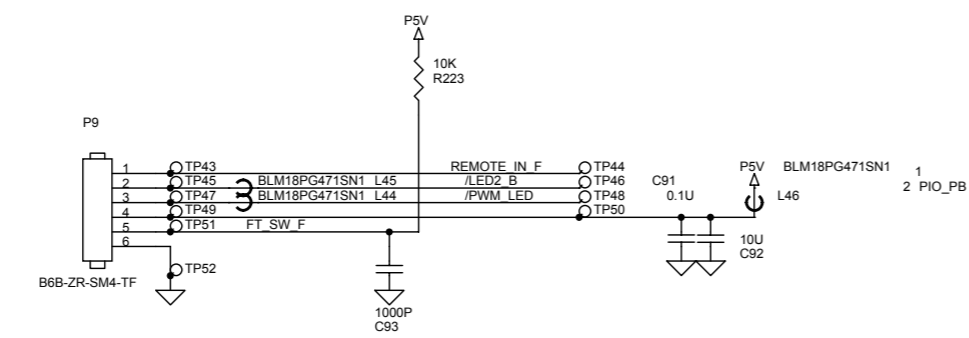
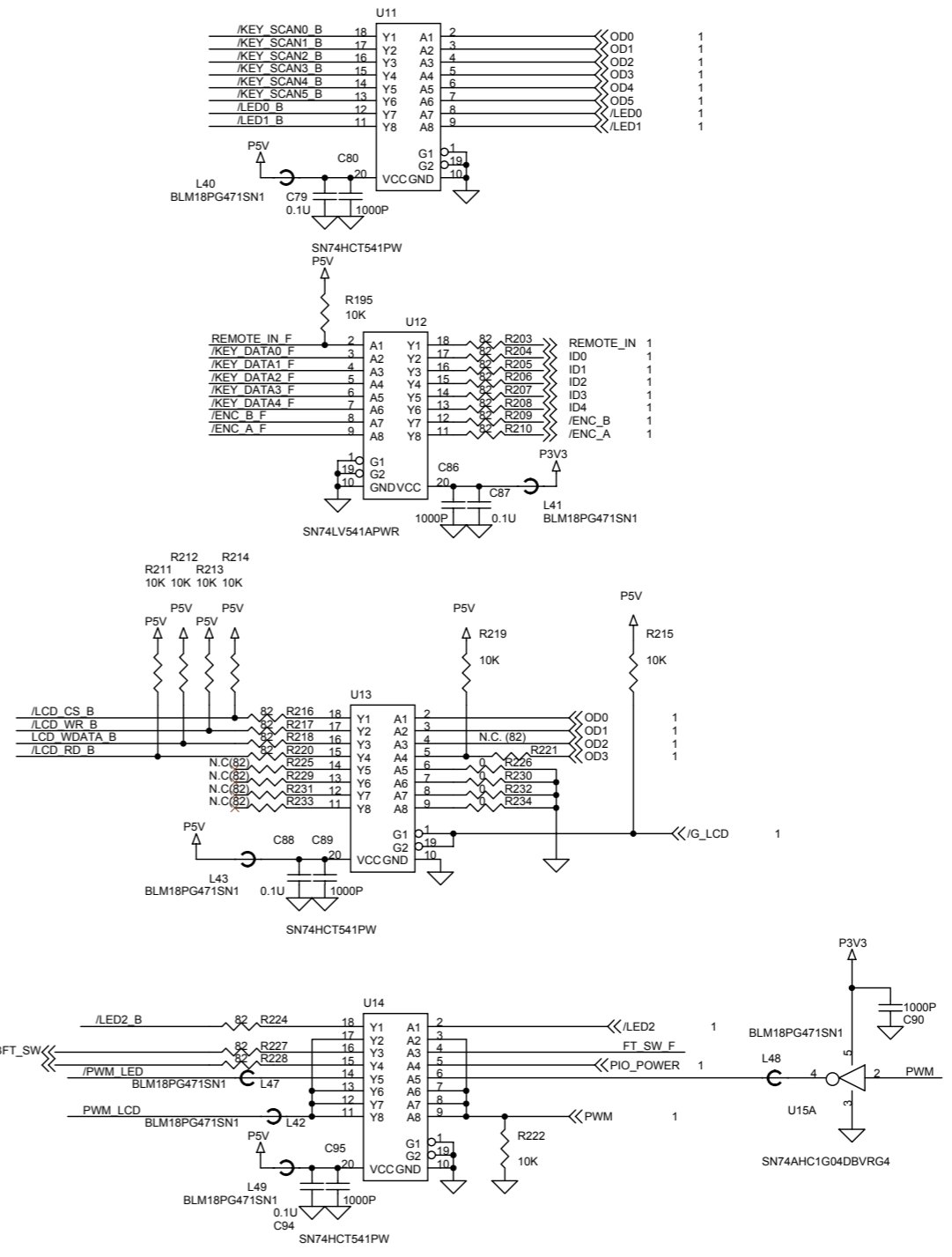
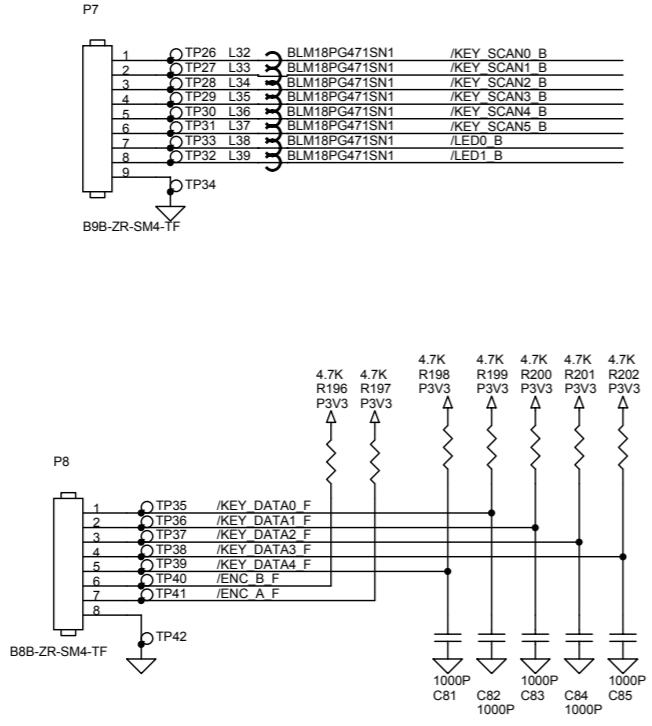
A

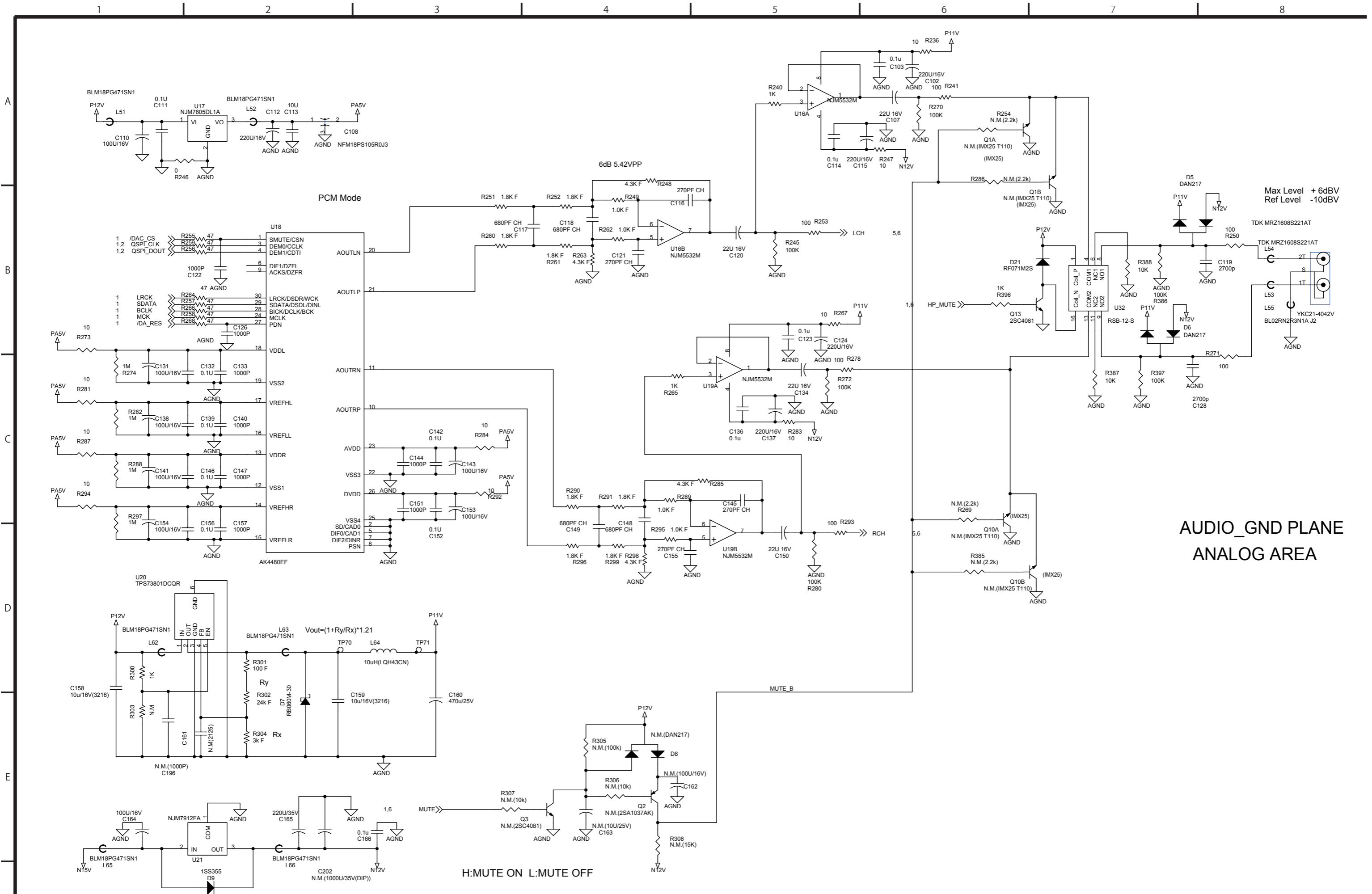
B

C

D

E





1 2 3 4 5 6 7 8

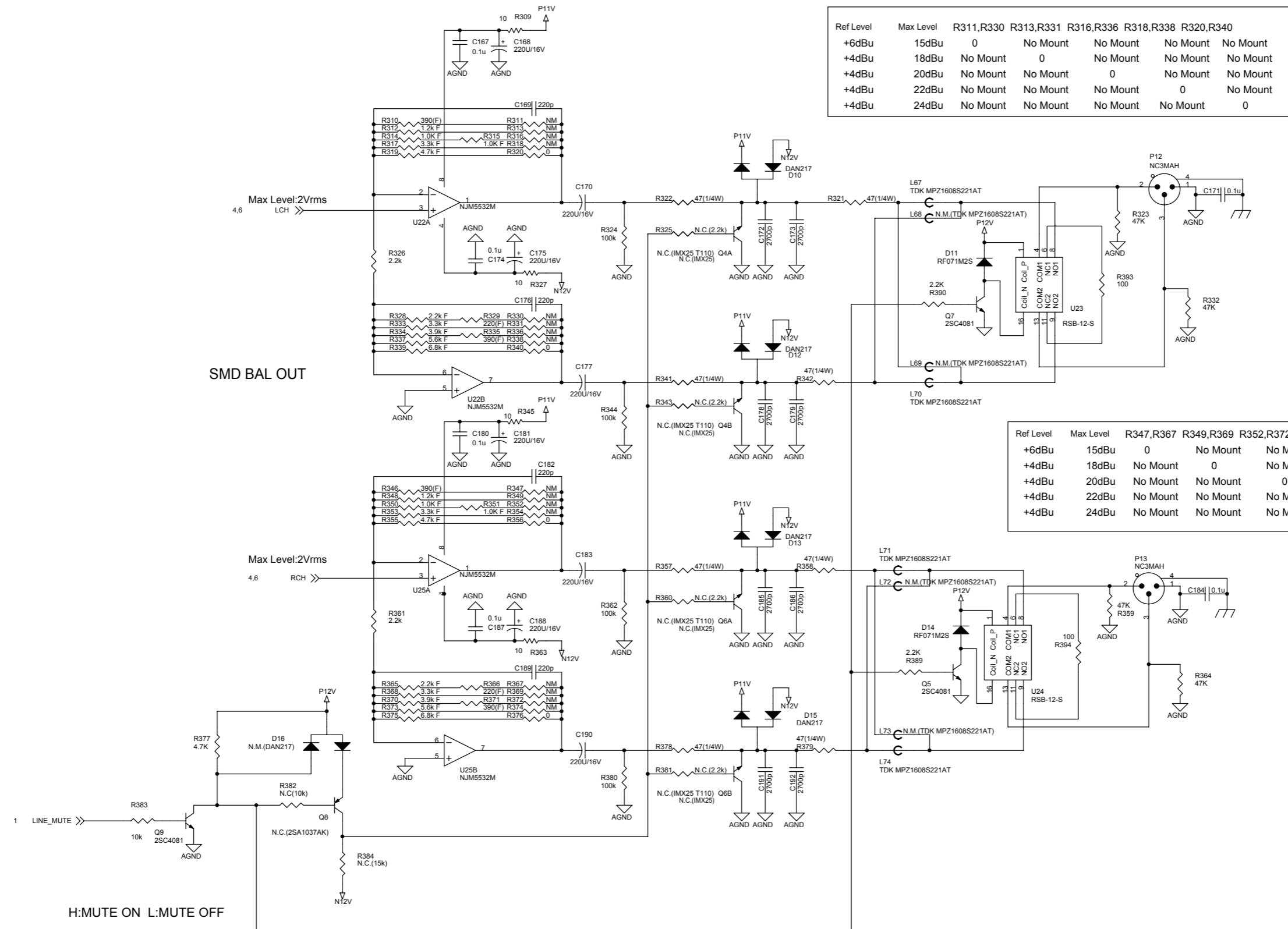
A

B

C

D

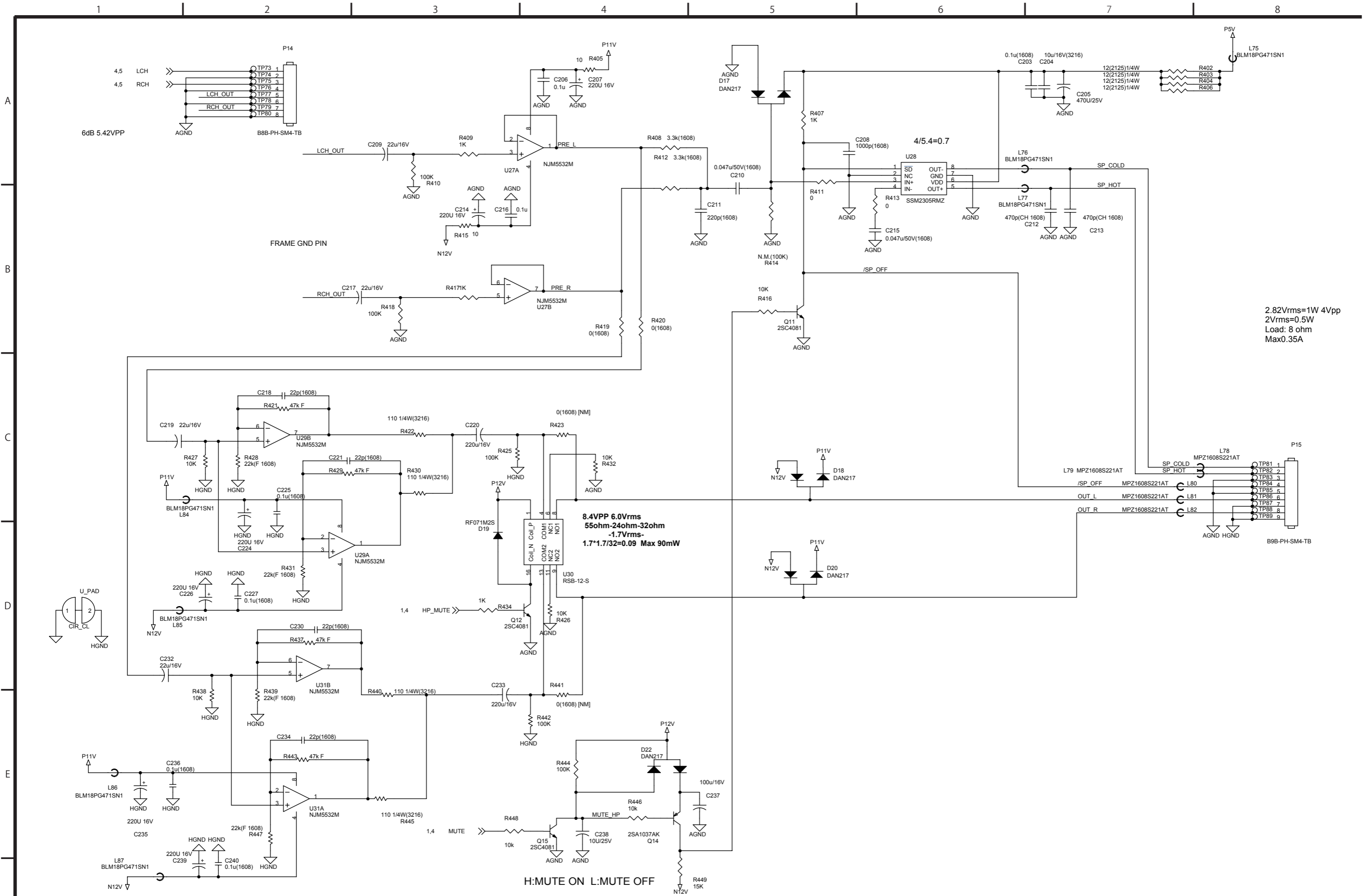
E



Ref Level	Max Level	R311,R330	R313,R331	R316,R336	R318,R338	R320,R340
+6dBu	15dBu	0	No Mount	No Mount	No Mount	No Mount
+4dBu	18dBu	No Mount	0	No Mount	No Mount	No Mount
+4dBu	20dBu	No Mount	No Mount	0	No Mount	No Mount
+4dBu	22dBu	No Mount	No Mount	No Mount	0	No Mount
+4dBu	24dBu	No Mount	No Mount	No Mount	No Mount	0

Ref Level	Max Level	R347,R367	R349,R369	R352,R372	R354,R374	R356,R376
+6dBu	15dBu	0	No Mount	No Mount	No Mount	No Mount
+4dBu	18dBu	No Mount	0	No Mount	No Mount	No Mount
+4dBu	20dBu	No Mount	No Mount	0	No Mount	No Mount
+4dBu	22dBu	No Mount	No Mount	No Mount	0	No Mount
+4dBu	24dBu	No Mount	No Mount	No Mount	No Mount	0

H:MUTE ON L:MUTE OFF



2.82Vrms=1W 4Vpp  
2Vrms=0.5W  
Load: 8 ohm  
Max0.35A

H:MUTE ON L:MUTE OFF

1 2 3 4 5 6 7 8

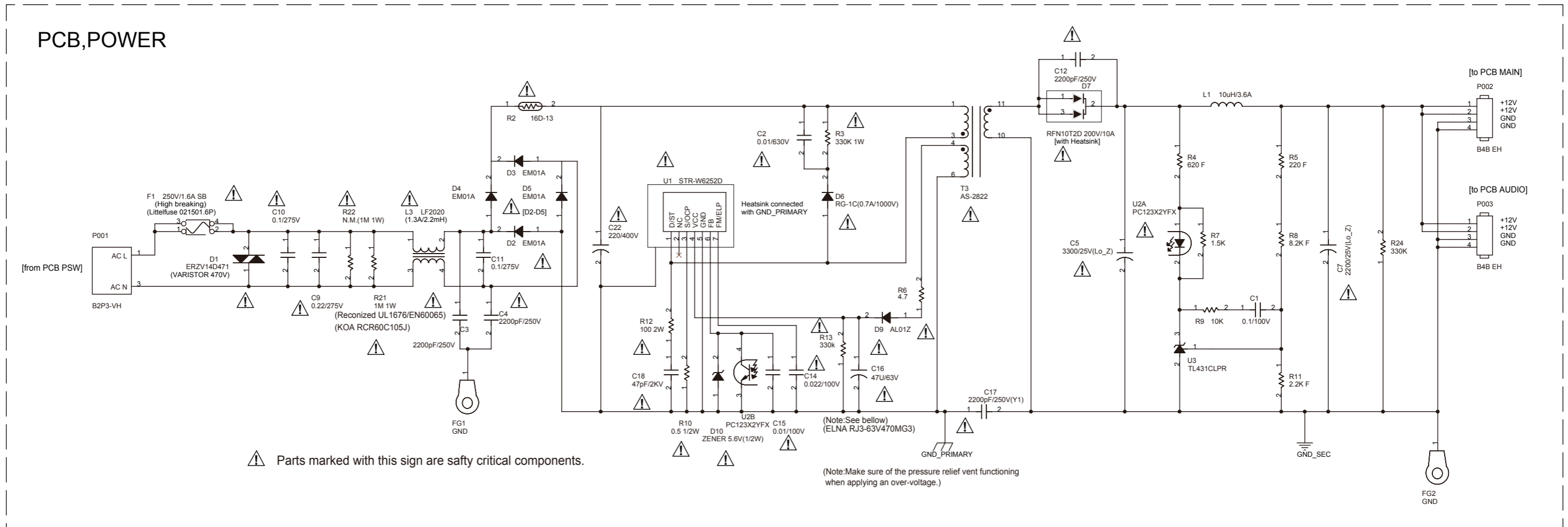
A

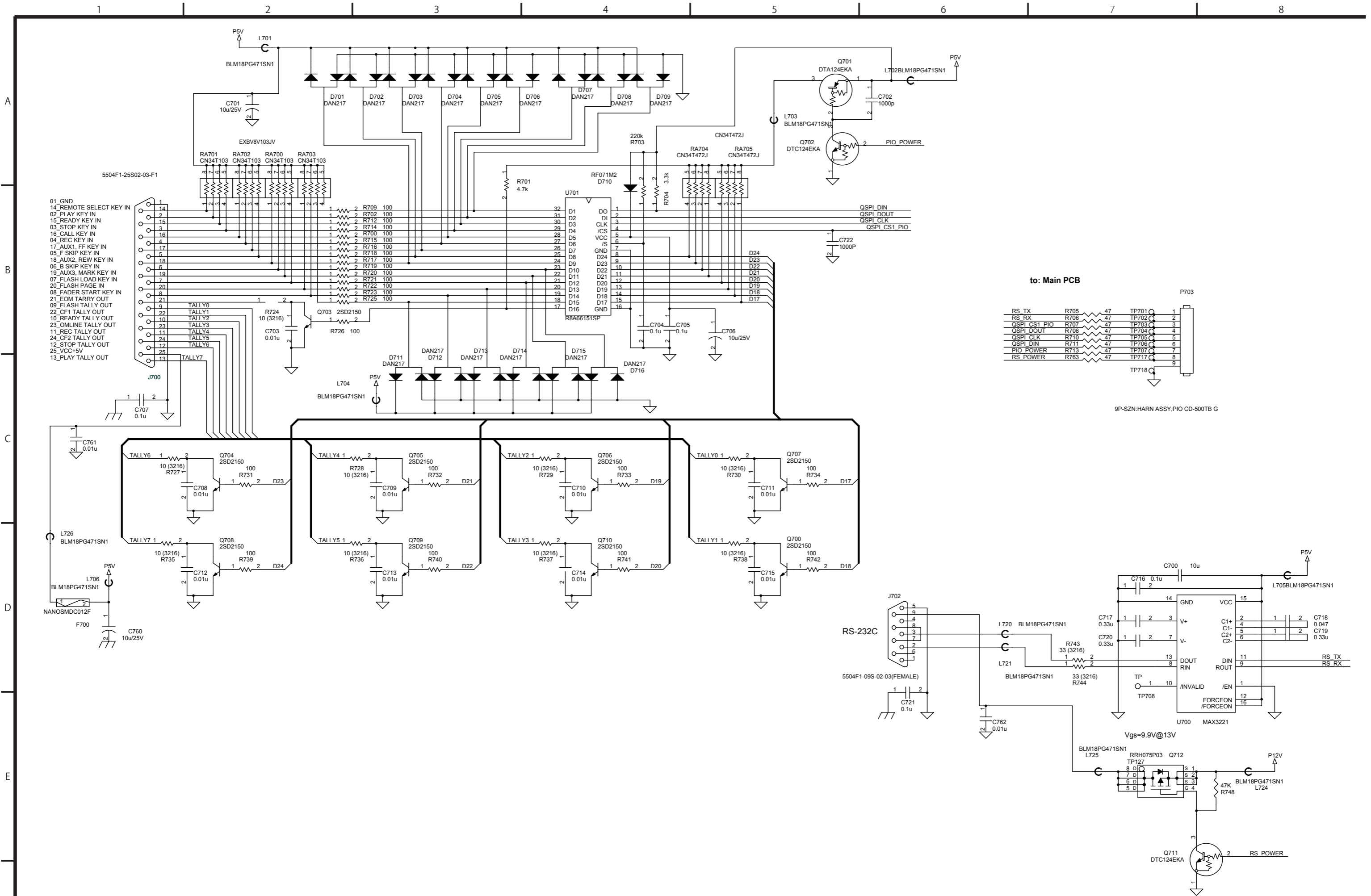
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D

E

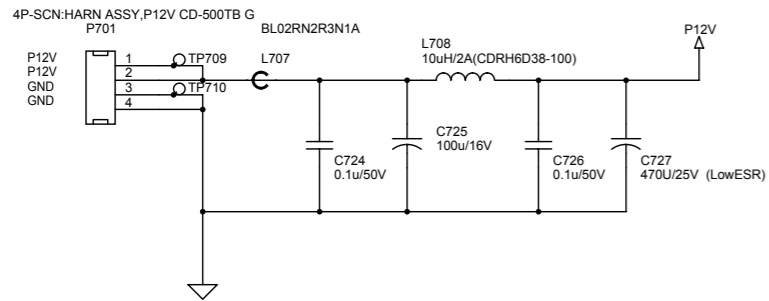




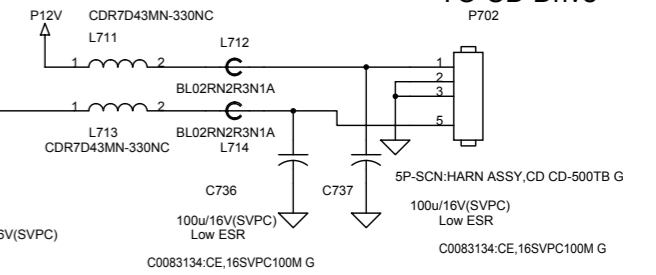
1 2 3 4 5 6 7 8

A

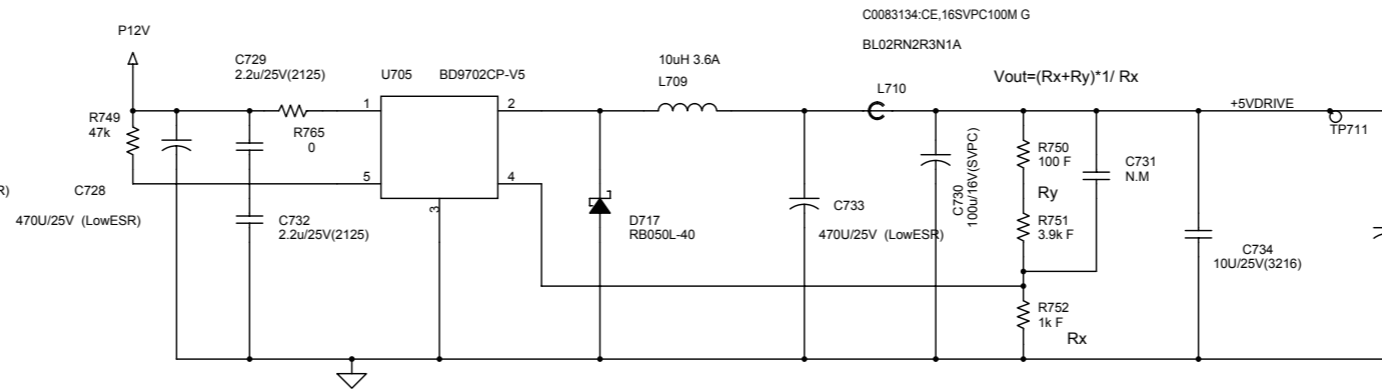
to PCB POWER



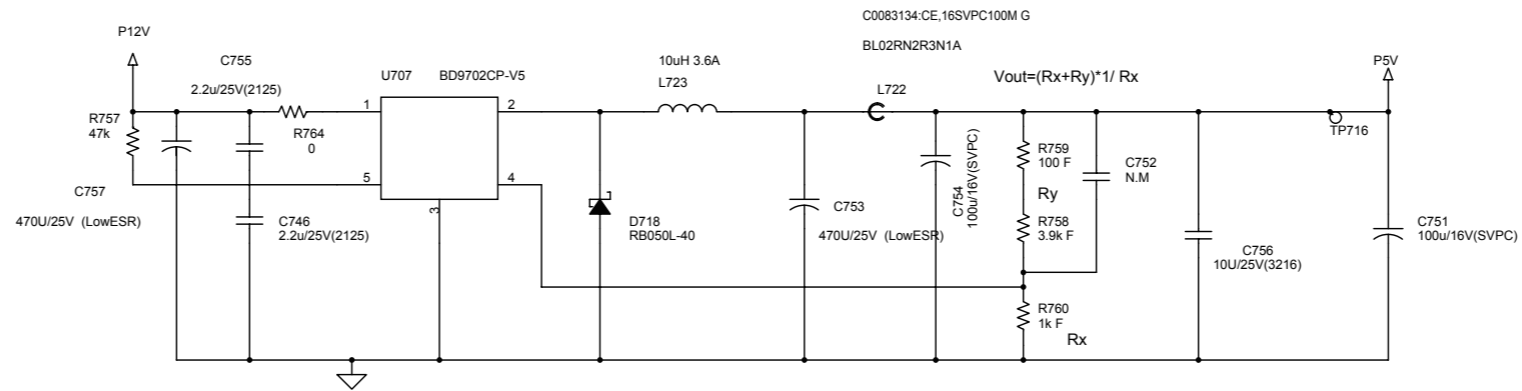
TO CD Drive



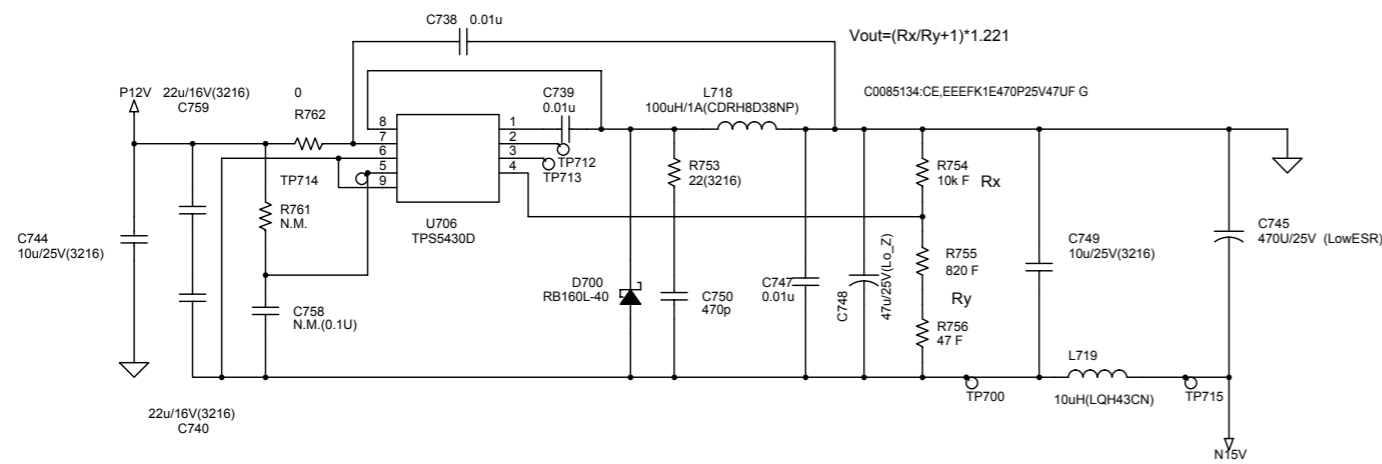
B



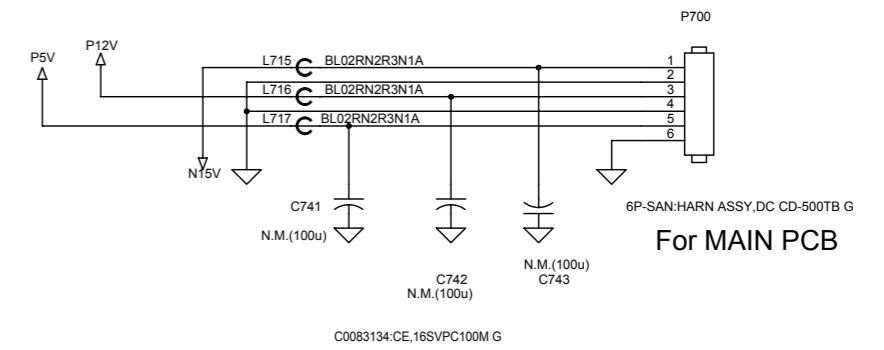
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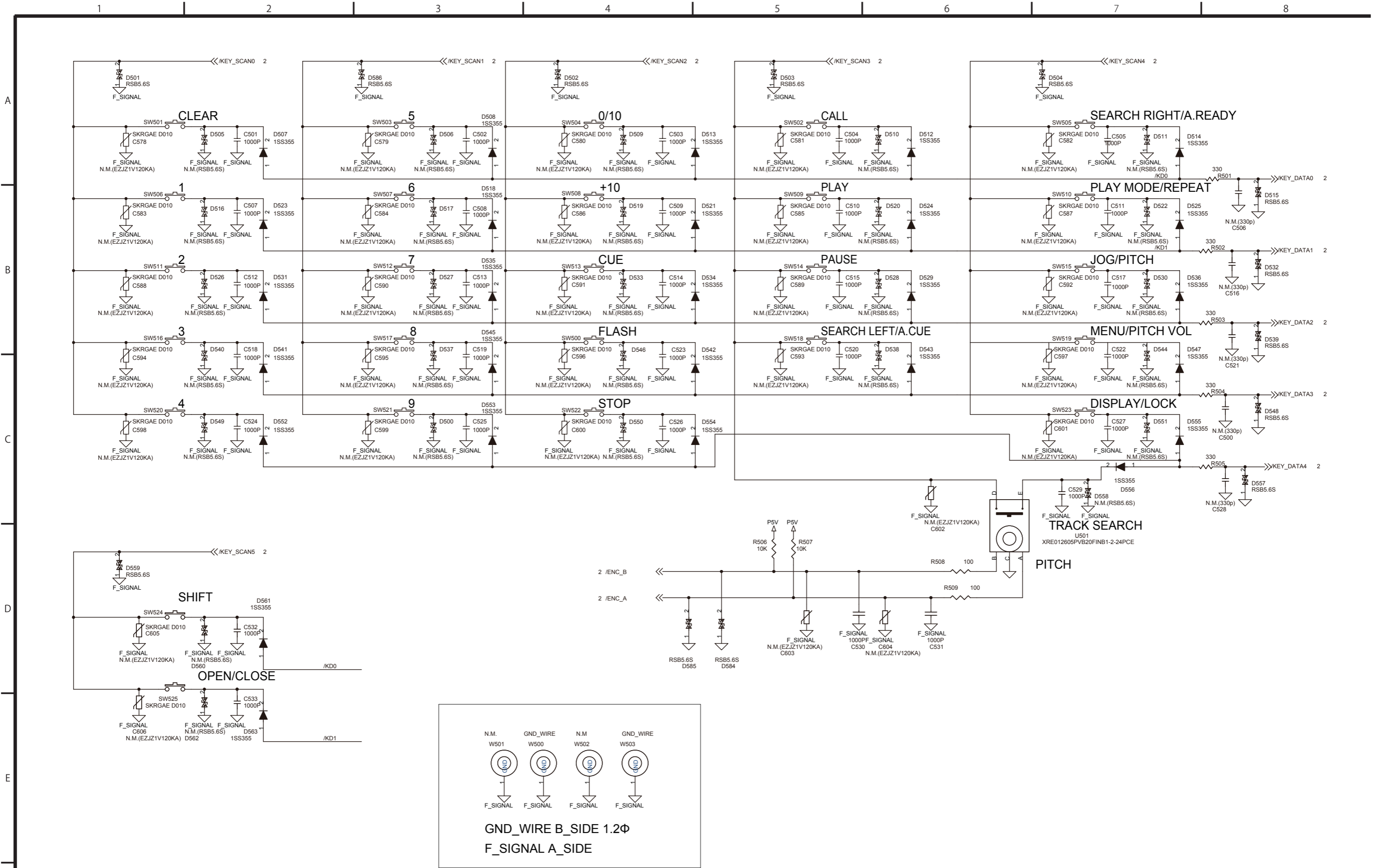


D



E







1 2 3 4 5 6 7 8

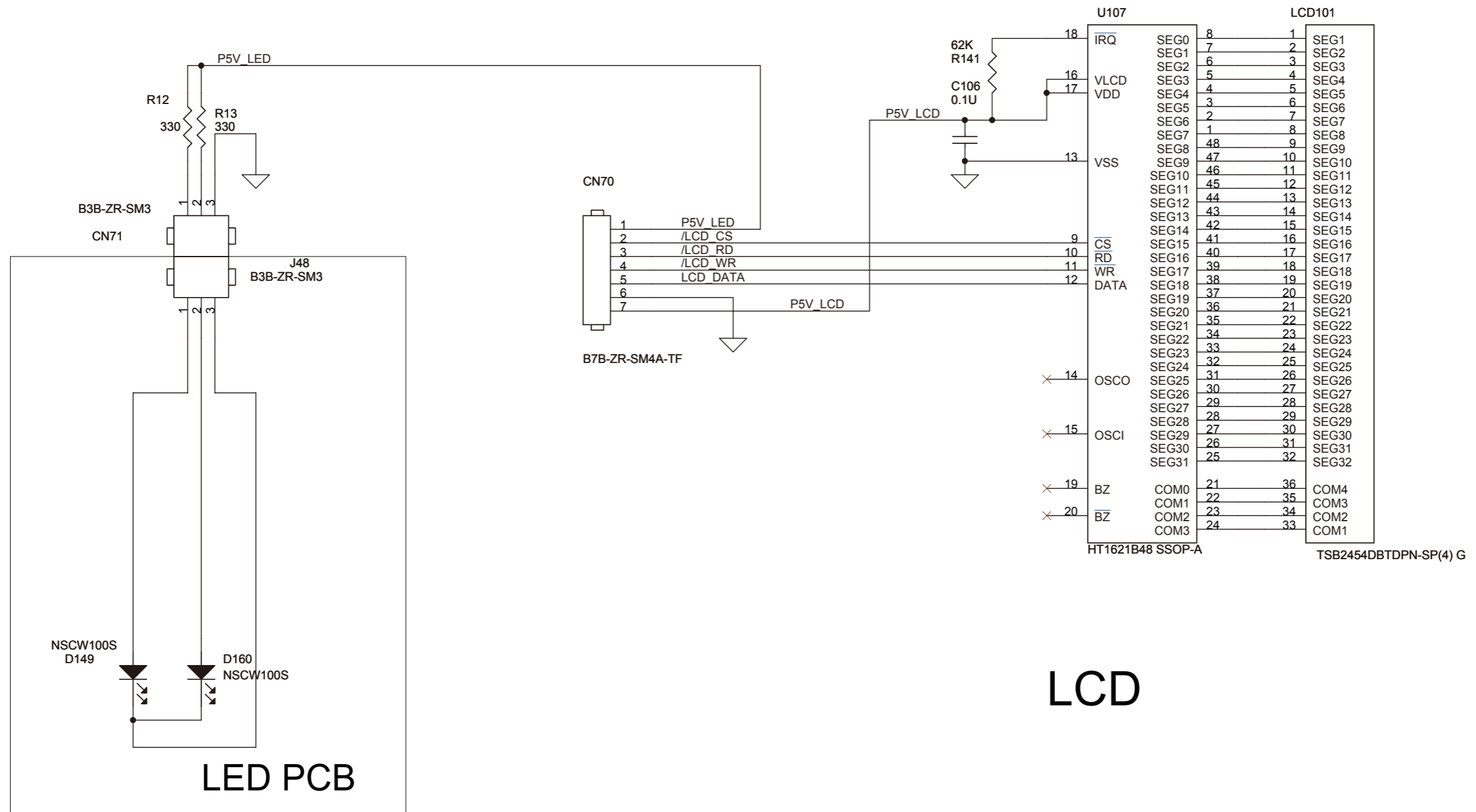
A

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C

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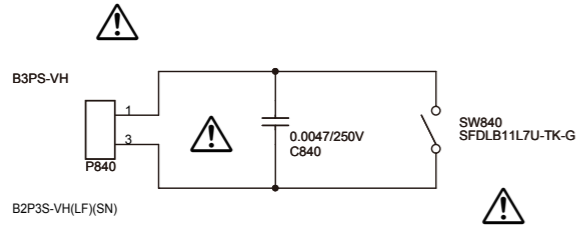
E



LCD

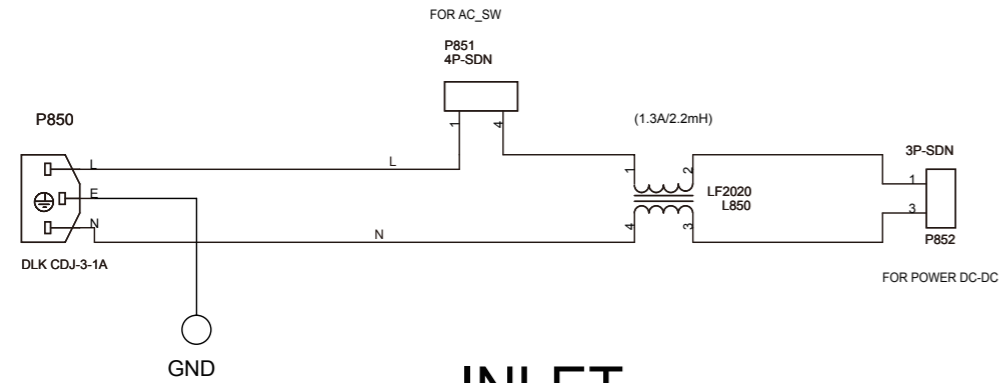
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A



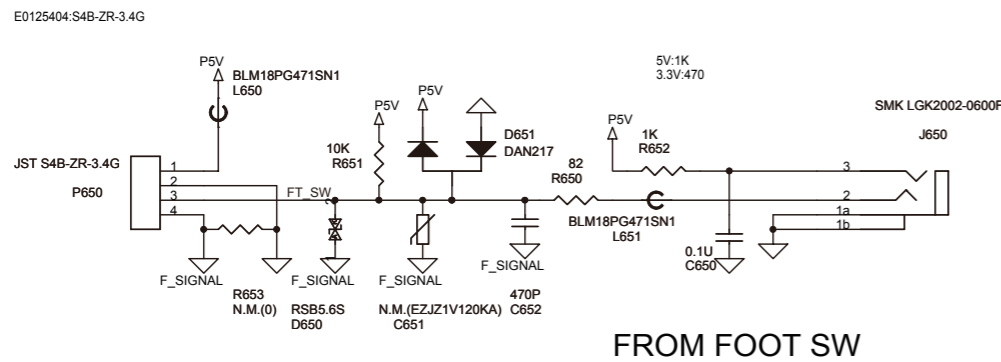
AC-SW

B



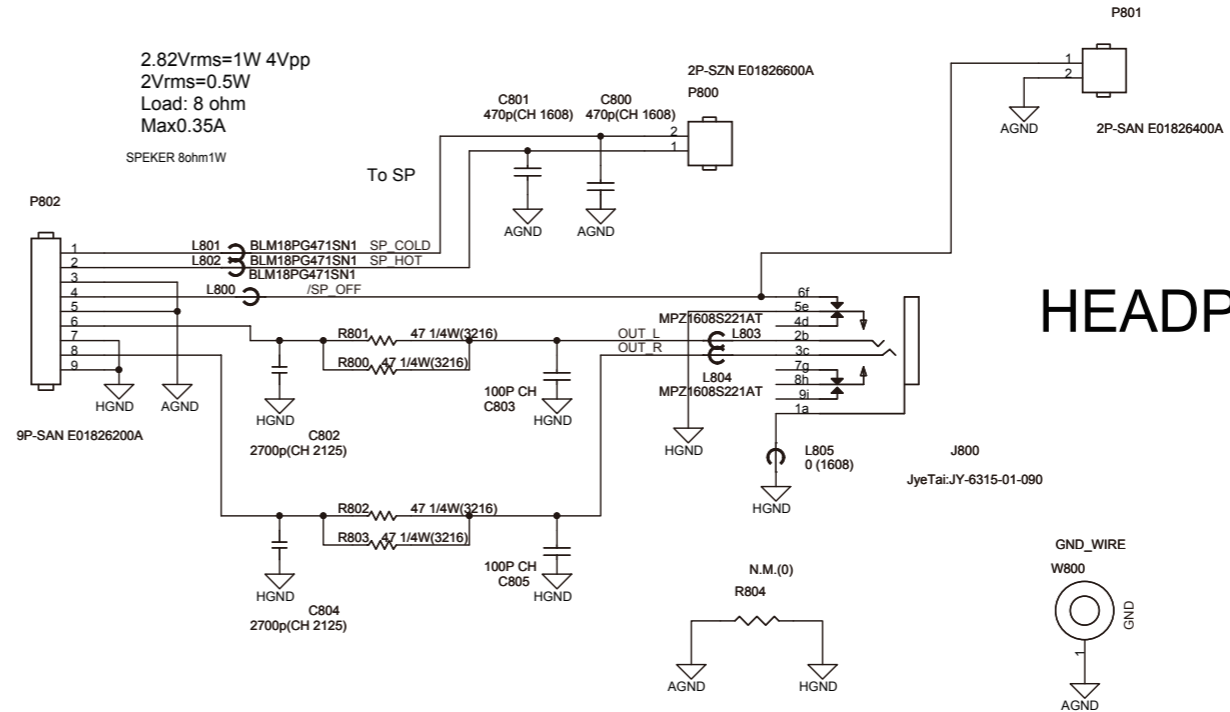
INLET

D

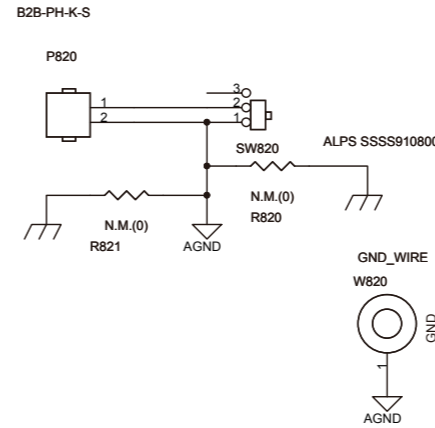


REMOTE

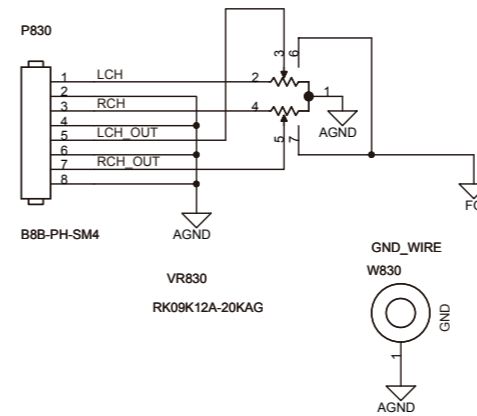
E



HEADPHONE SLIDE SW



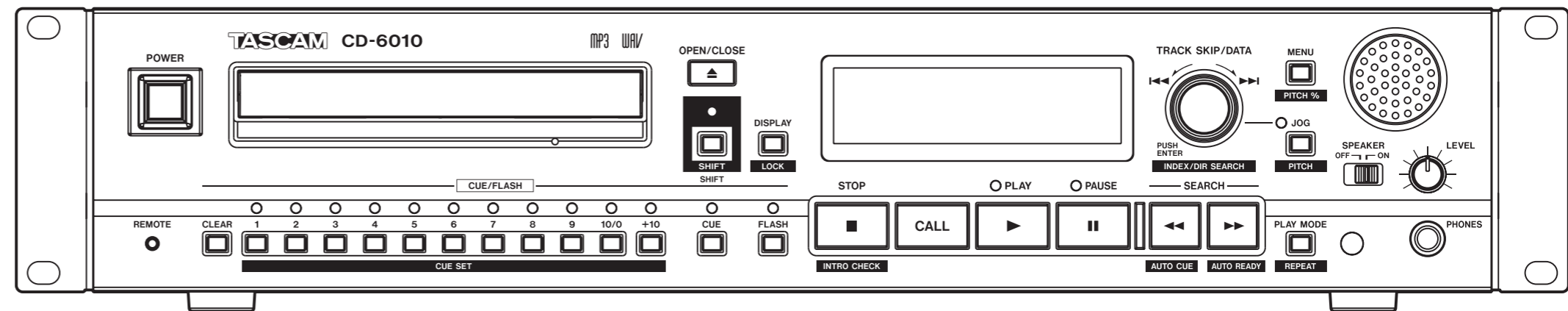
HEADPHONE MAIN

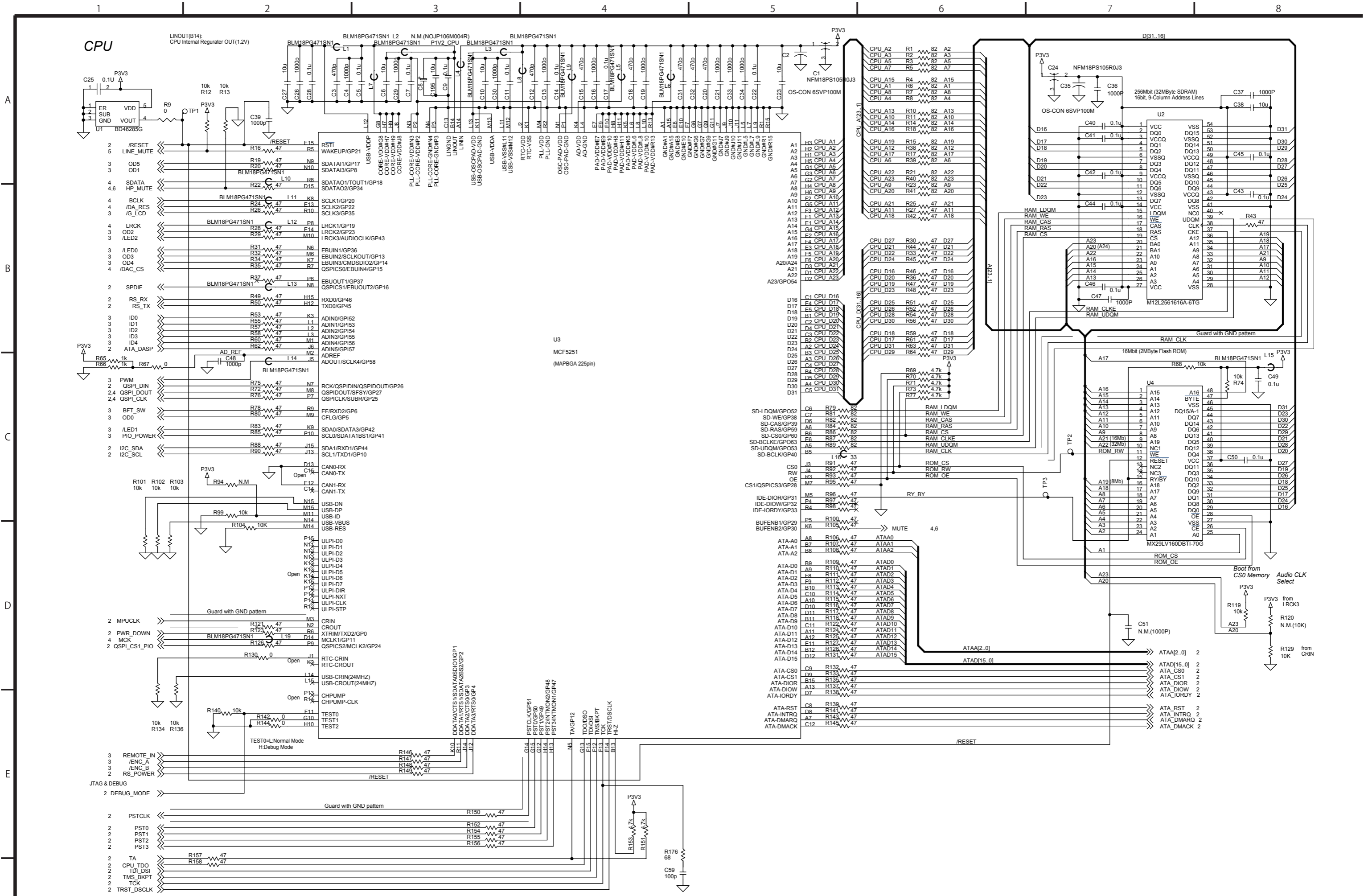


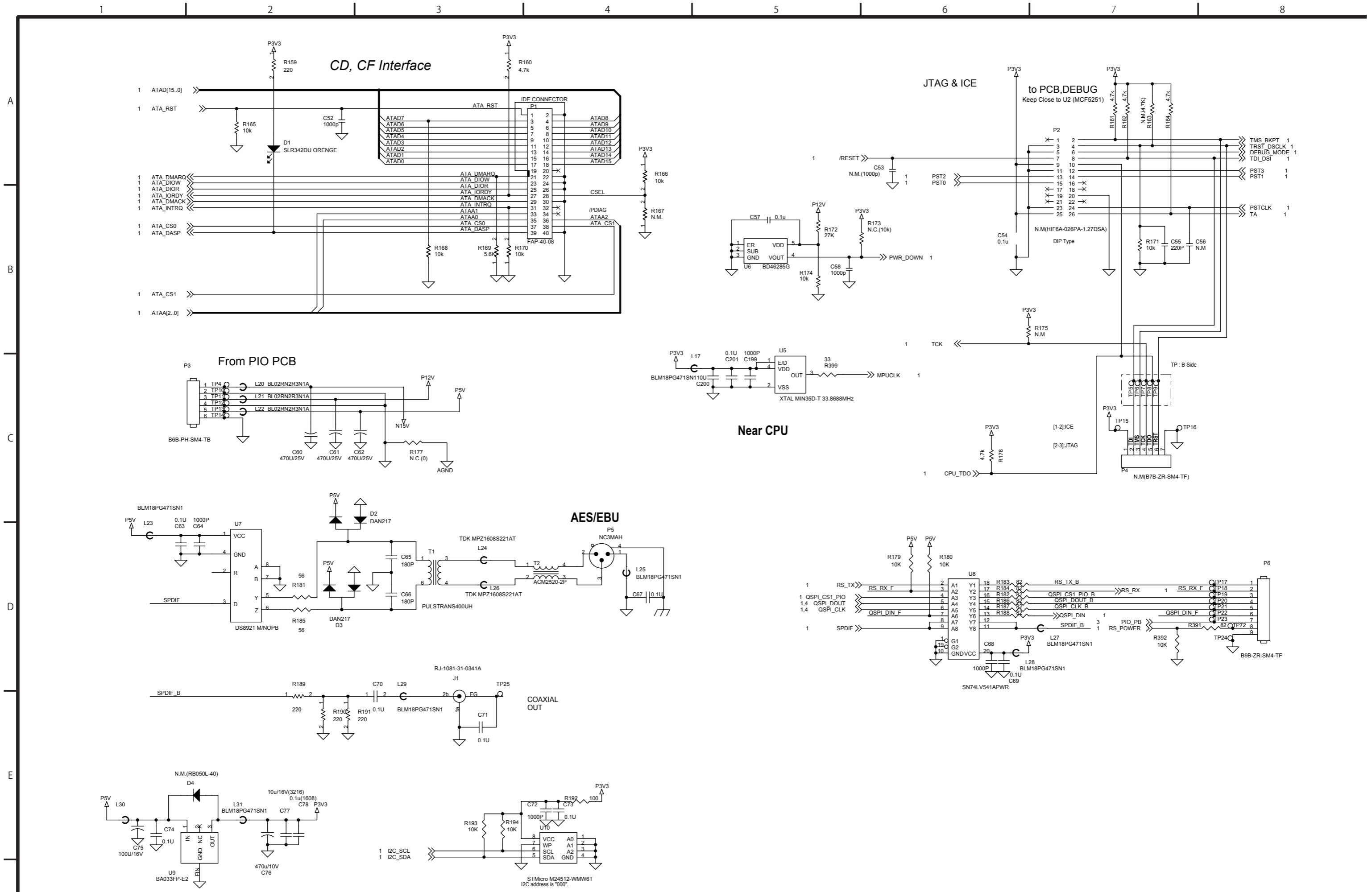
HEADPHONE VR

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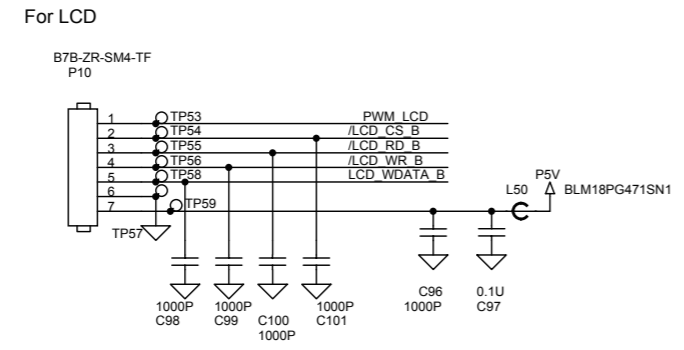
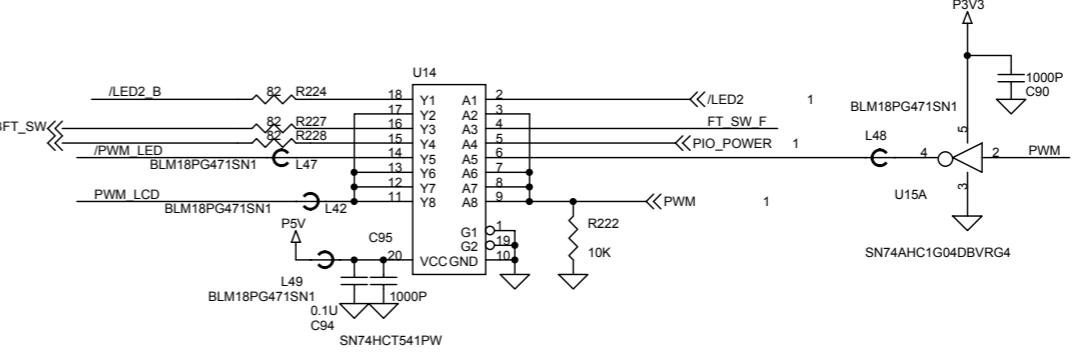
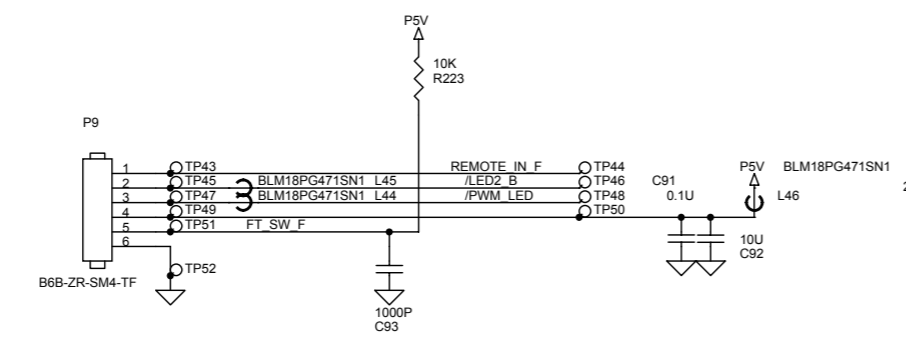
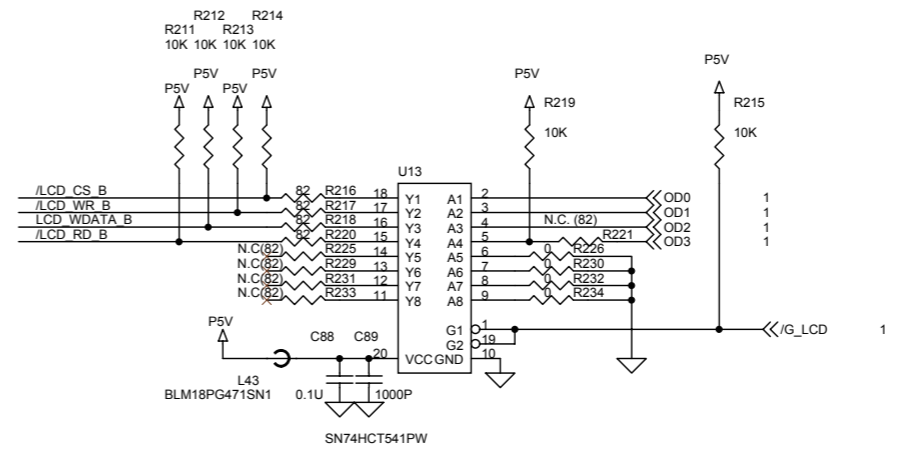
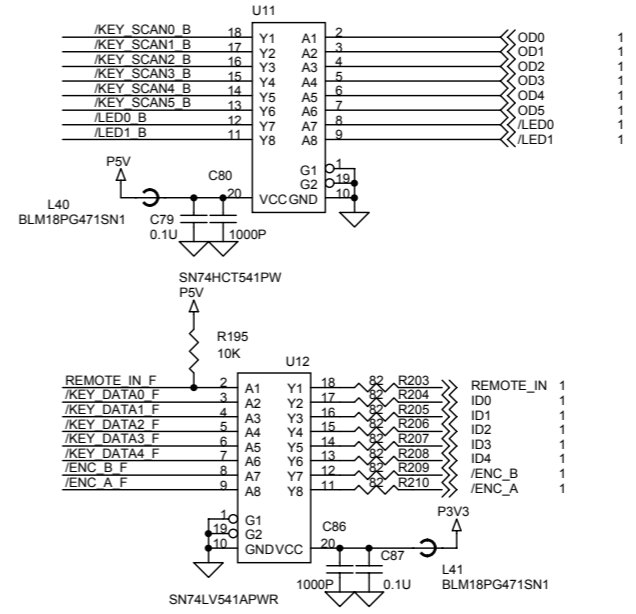
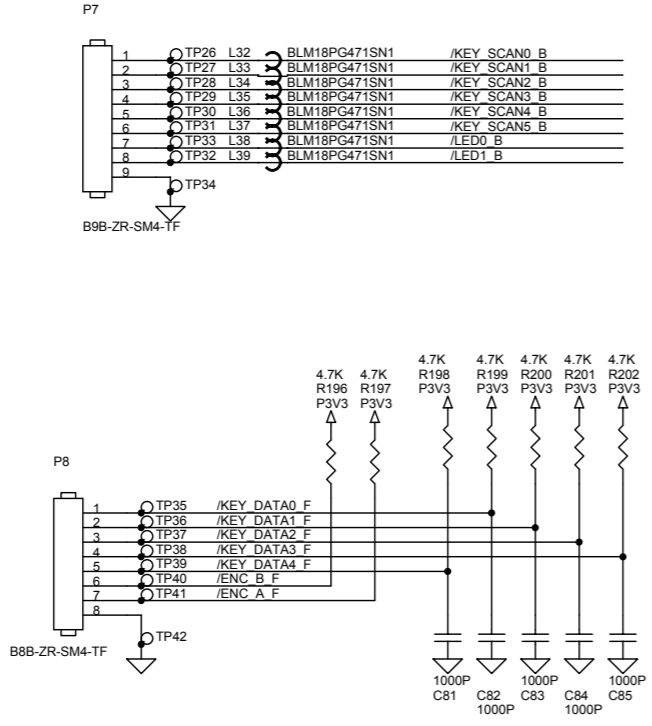
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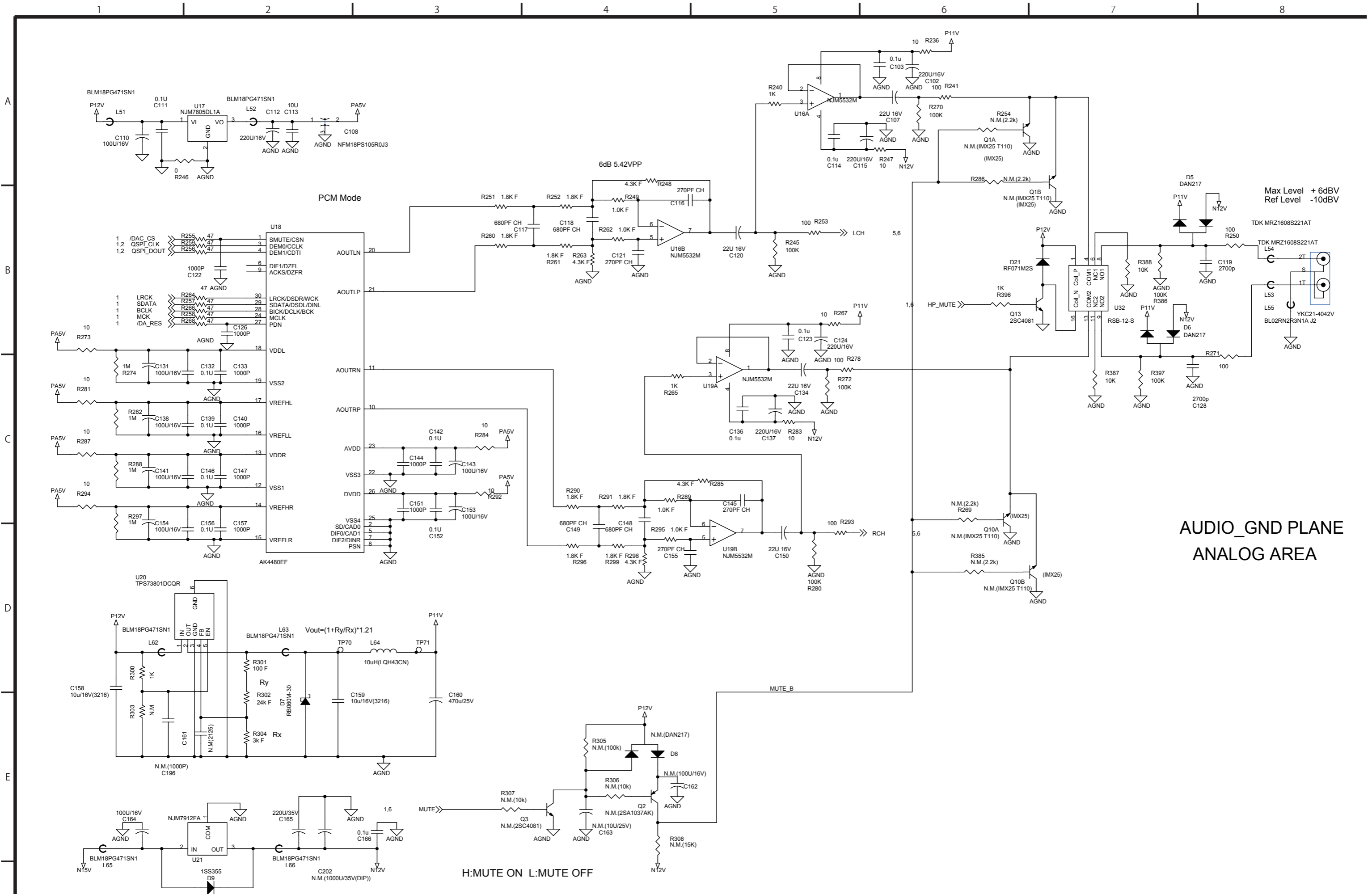
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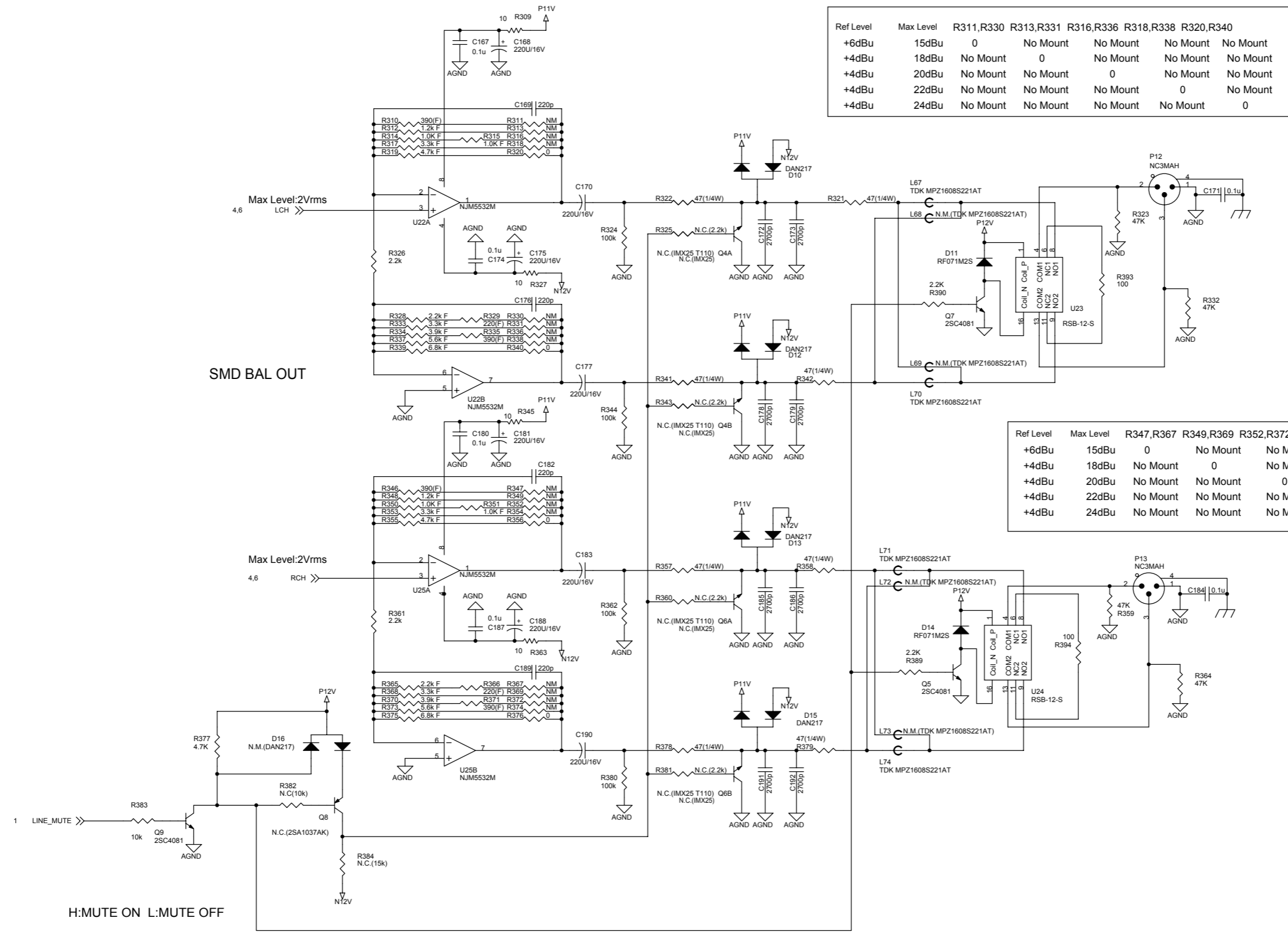
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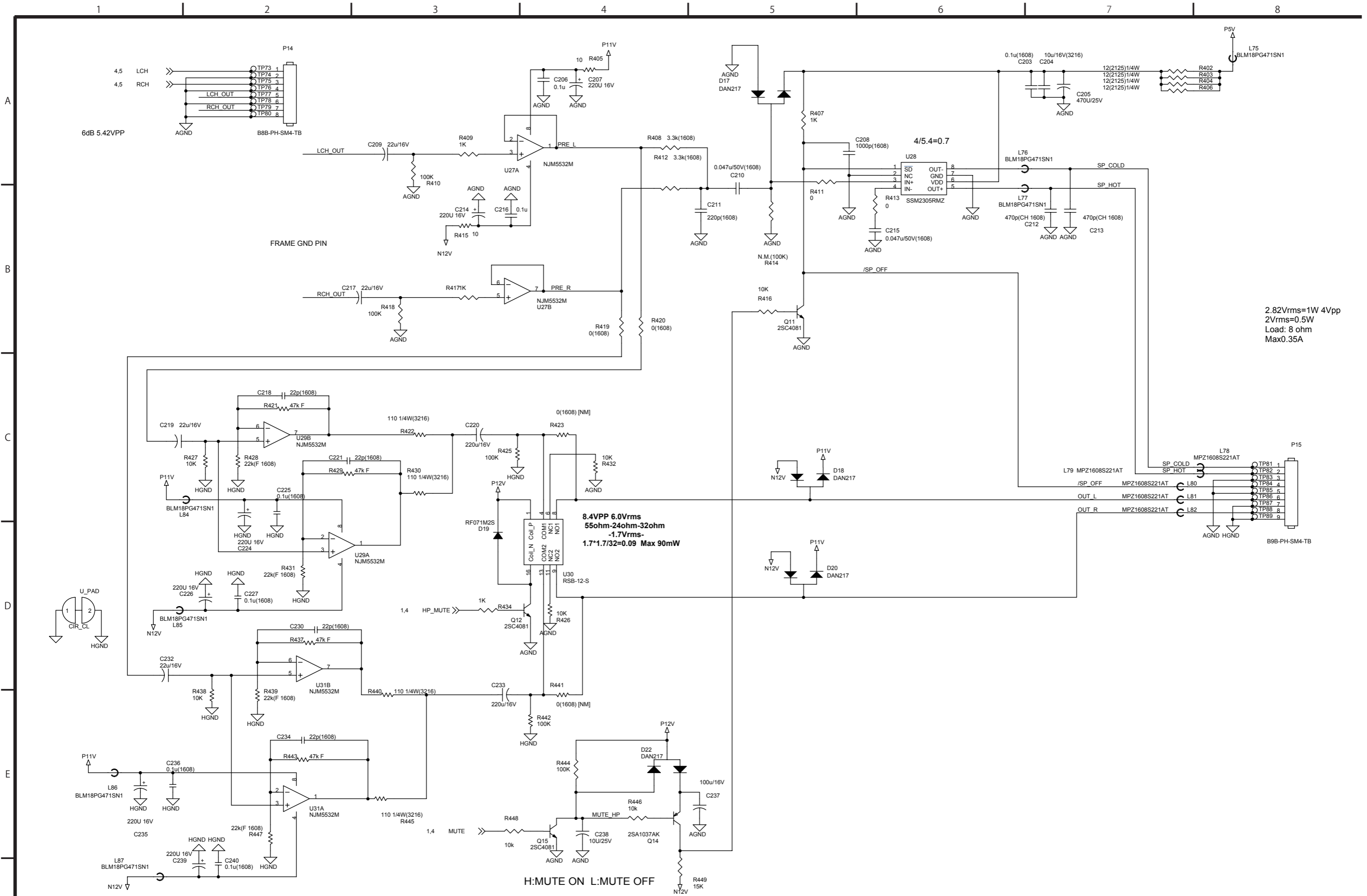
E



Ref Level	Max Level	R311,R330	R313,R331	R316,R336	R318,R338	R320,R340
+6dBu	15dBu	0	No Mount	No Mount	No Mount	No Mount
+4dBu	18dBu	No Mount	0	No Mount	No Mount	No Mount
+4dBu	20dBu	No Mount	No Mount	0	No Mount	No Mount
+4dBu	22dBu	No Mount	No Mount	No Mount	0	No Mount
+4dBu	24dBu	No Mount	No Mount	No Mount	No Mount	0

Ref Level	Max Level	R347,R367	R349,R369	R352,R372	R354,R374	R356,R376
+6dBu	15dBu	0	No Mount	No Mount	No Mount	No Mount
+4dBu	18dBu	No Mount	0	No Mount	No Mount	No Mount
+4dBu	20dBu	No Mount	No Mount	0	No Mount	No Mount
+4dBu	22dBu	No Mount	No Mount	No Mount	0	No Mount
+4dBu	24dBu	No Mount	No Mount	No Mount	No Mount	0

H:MUTE ON L:MUTE OFF



2.82Vrms=1W 4Vpp  
2Vrms=0.5W  
Load: 8 ohm  
Max0.35A

H:MUTE ON L:MUTE OFF

1 2 3 4 5 6 7 8

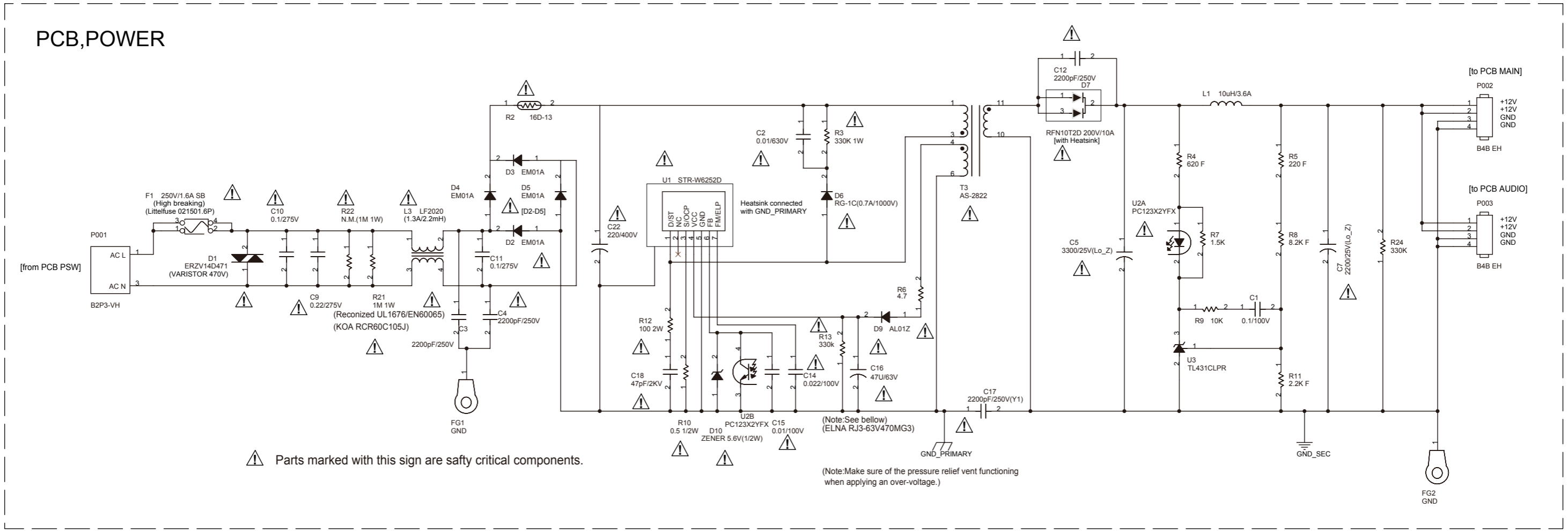
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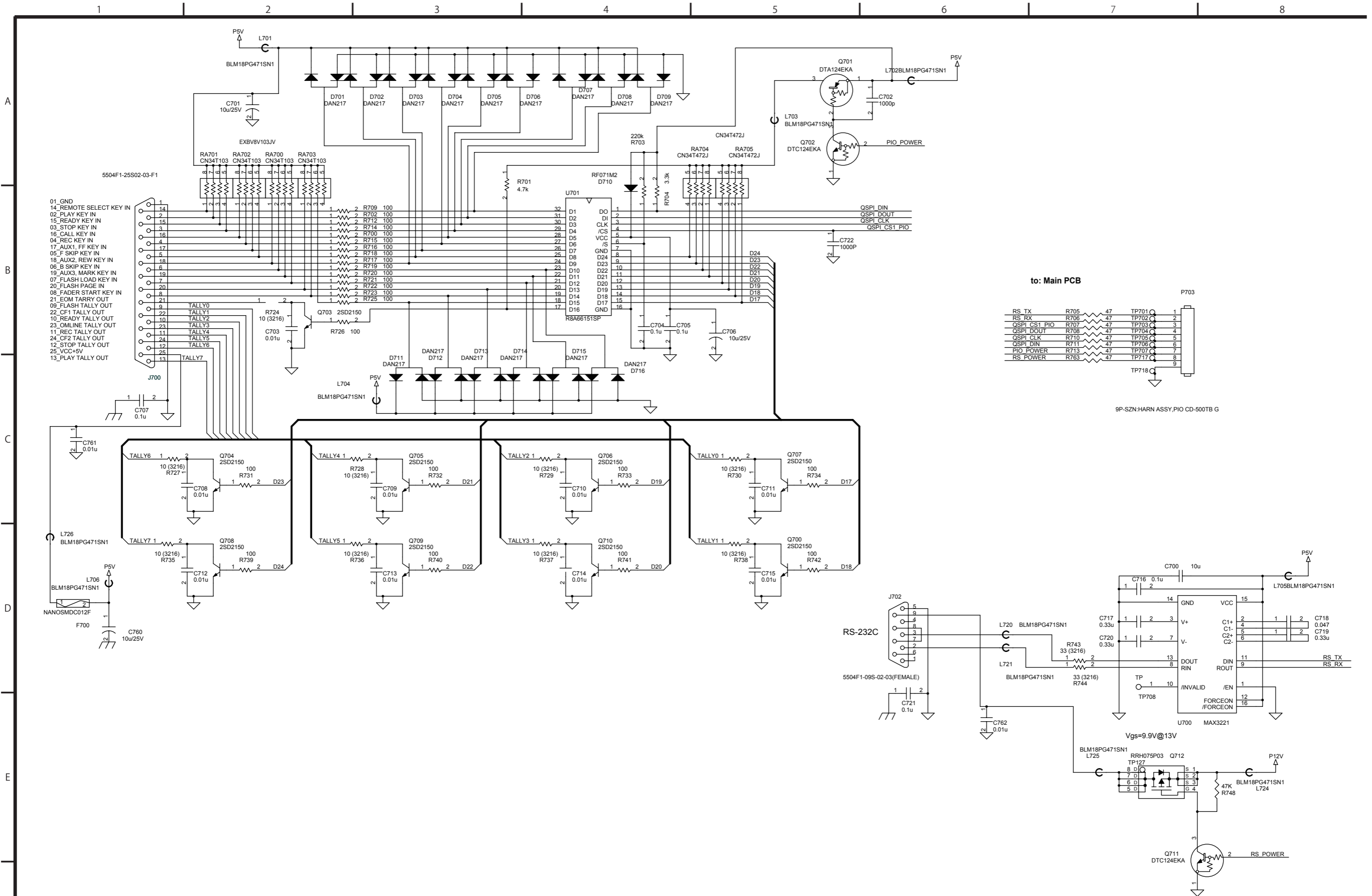
B

C

D

E

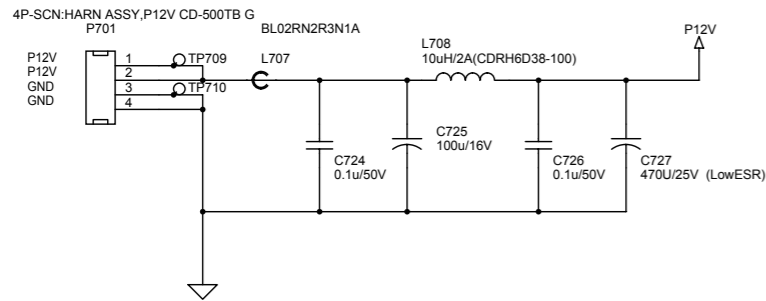




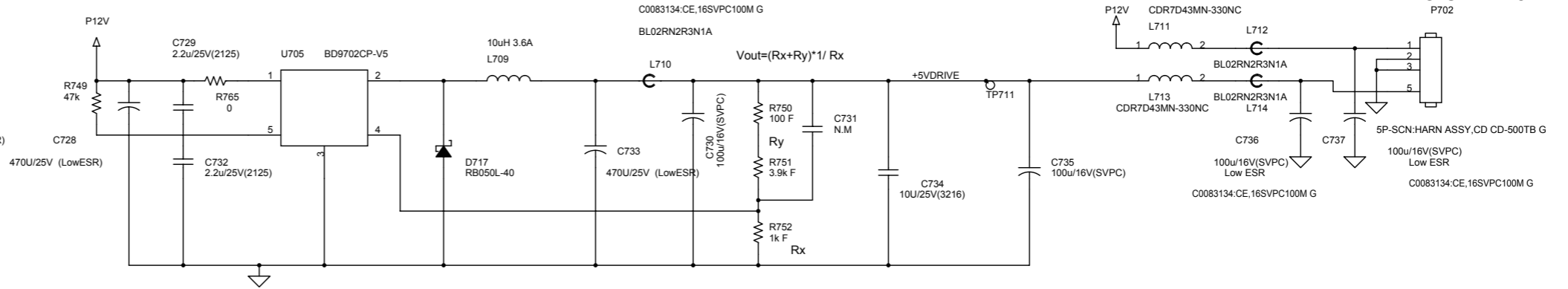
1 2 3 4 5 6 7 8

A

to PCB POWER

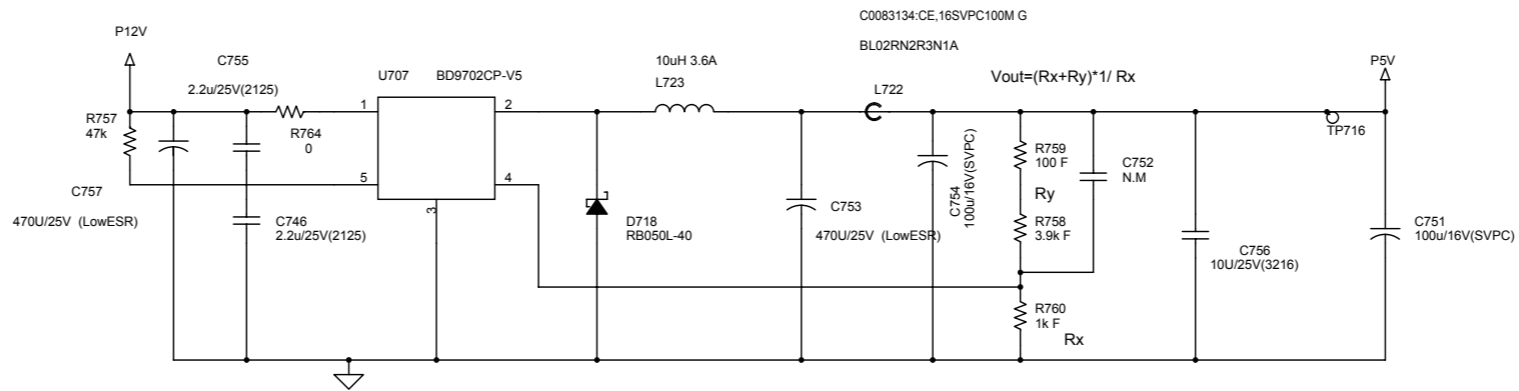


TO CD Drive

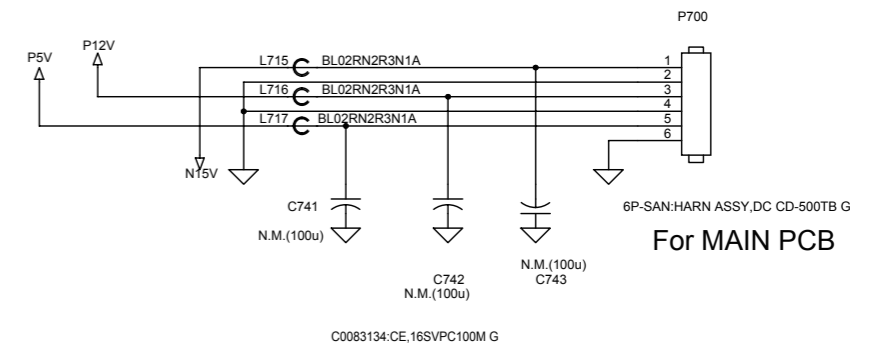
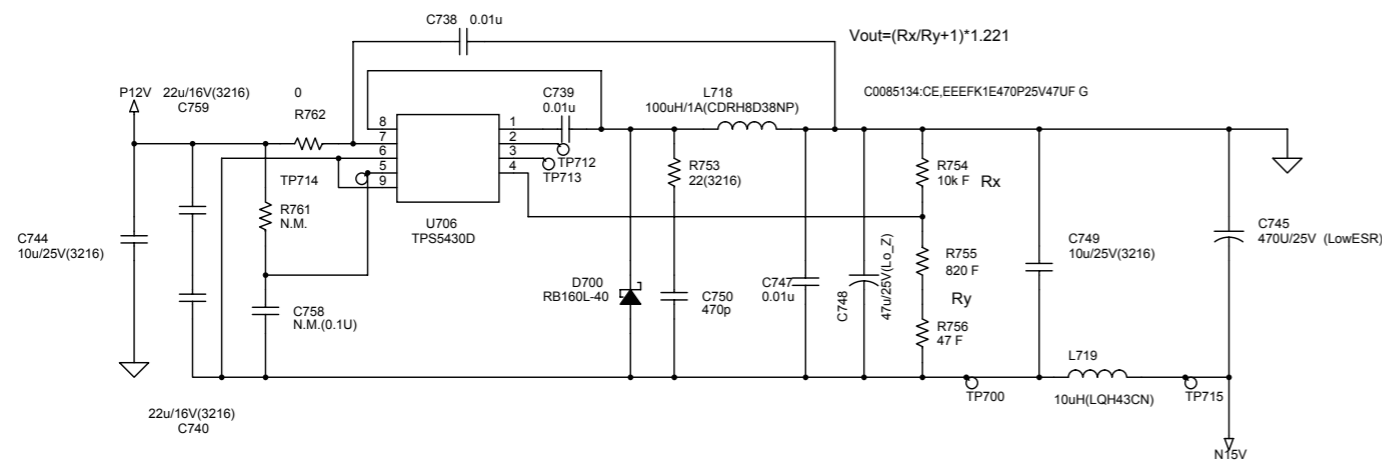


B

C

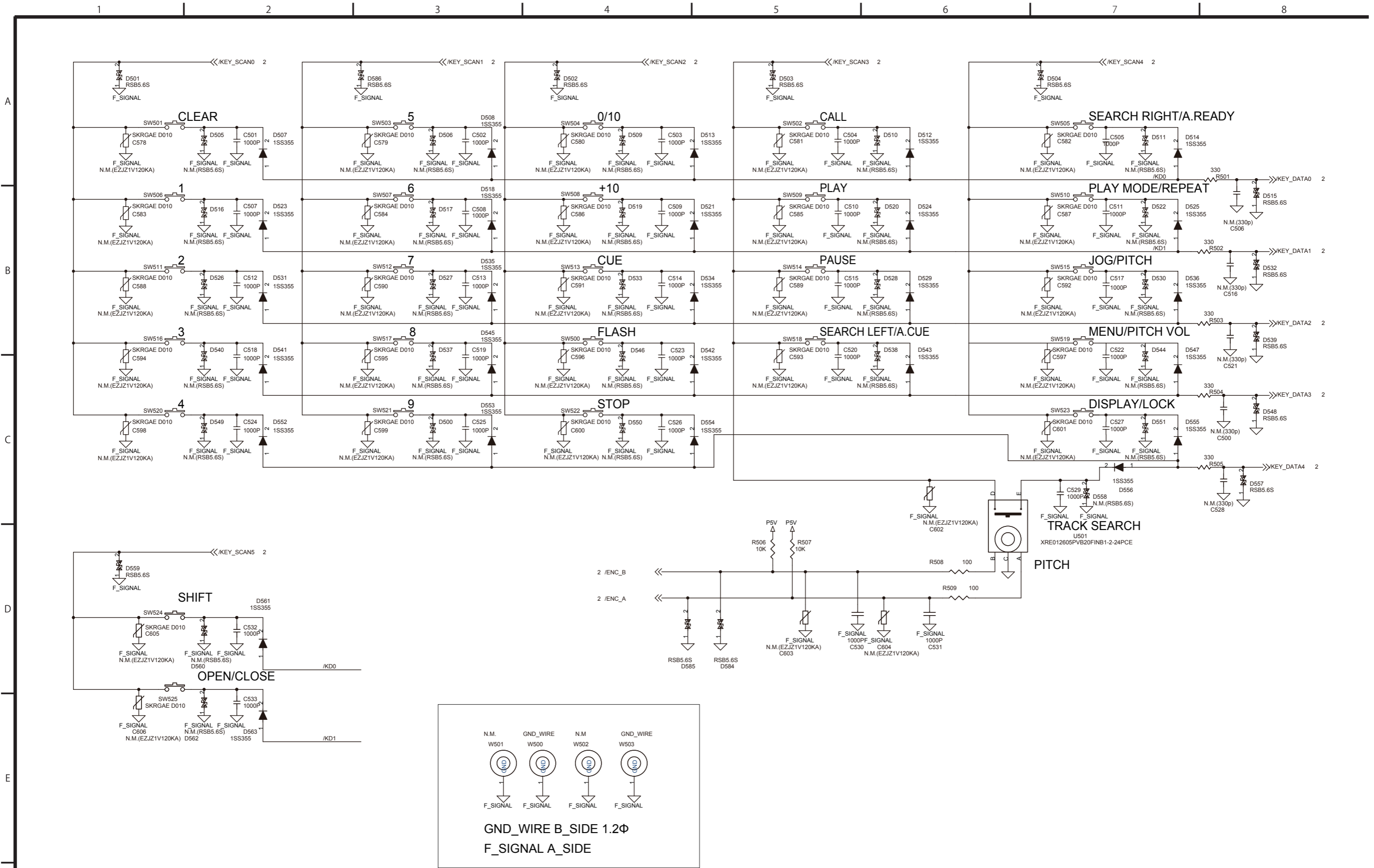


D



For MAIN PCB

E





1 2 3 4 5 6 7 8

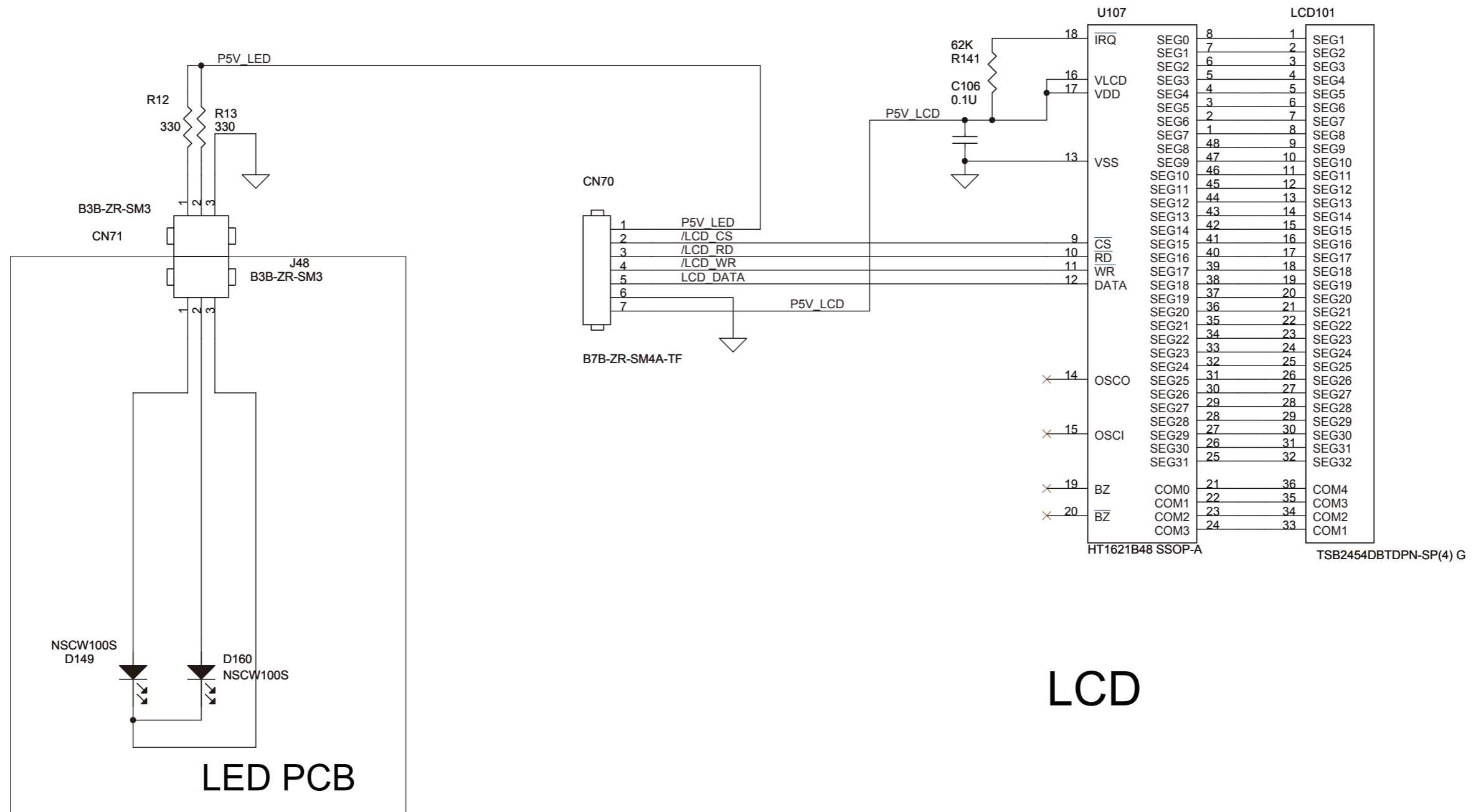
A

B

C

D

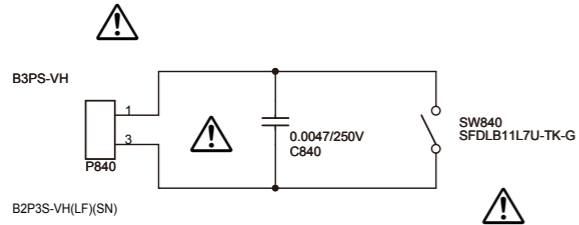
E



LCD

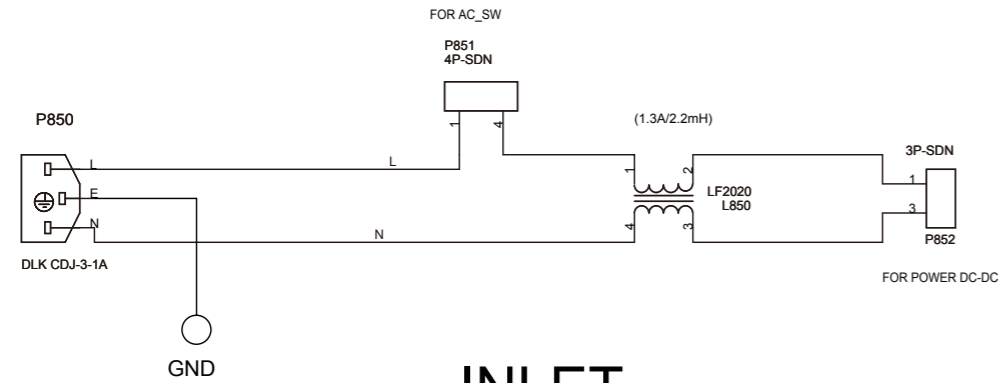
1 2 3 4 5 6 7 8

A



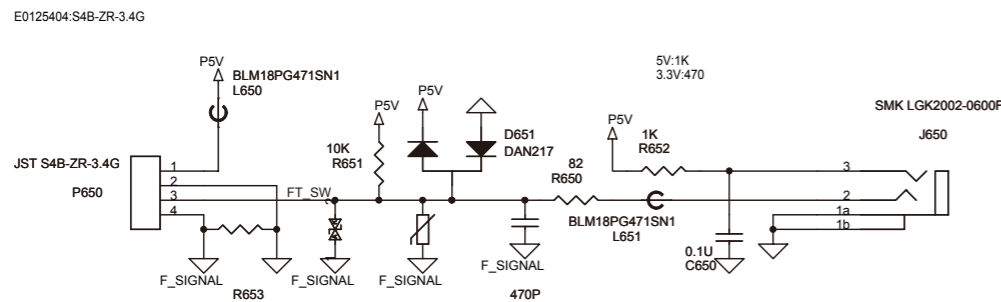
AC-SW

B



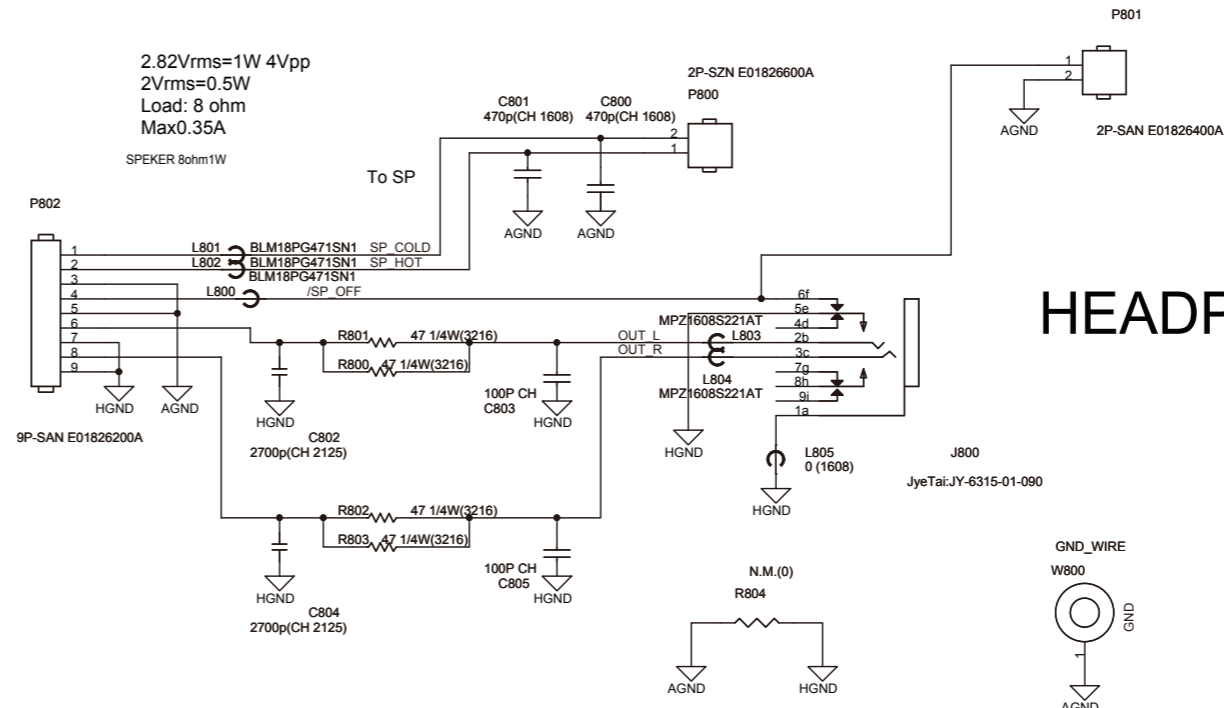
INLET

D

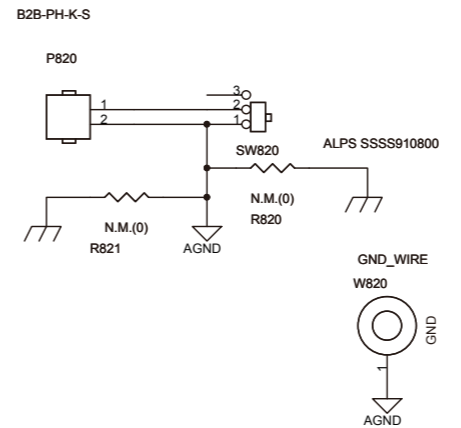


REMOTE

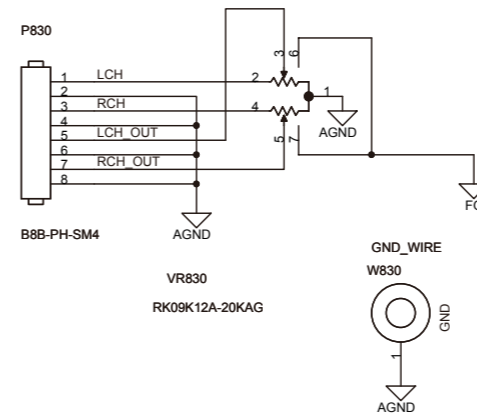
E



HEADPHONE SLIDE SW



HEADPHONE MAIN



HEADPHONE VR

## Functions added in firmware V1.30

### End check function

An end check function has been added that allows you to check the ends of tracks. This is useful when you want to check how a track ends.

#### Setting the amount of time checked

Set how many seconds before the end of the track playback should start with this function. Use the "25 END-C" menu item to set the number of seconds before the end of the track.

Setting range: 5 (default) – 35 (in 5 second intervals)

#### Using this function

To start end check playback of the currently selected track (for the number of seconds set above), during playback or when paused, press and hold the **|| [PAUSE]** button and press the **▶ [PLAY]** button on the main unit or press the ENTER button on the remote control.

After playback completes, the unit returns to the call point (the point when playback last started) and pauses playback.

#### NOTE

- *The end check function cannot be used with data CDs.*
- *During A-B repeat playback, end check playback will start the set number of seconds before the B point, and the unit will pause at the A point when playback completes.*

### Time search function

A time search function has been added that enables locating to a designated time from the start of a track.

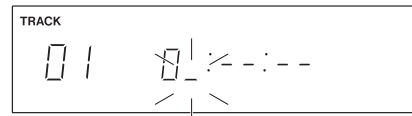
#### Setting the time search function

Use the "26 NUM-B" menu item to set the time search function.

#### Options

TR (default): The time search function is disabled. Press a number button to directly select a track.

TI: The time search function is enabled. Press a number button to activate time search mode. The input position is shown with a blinking "\_" (underbar).



Display during time search mode

#### Using this function

When time search mode is active, use the number buttons on the main unit or remote control to input minutes, seconds and frames (two digits each). When input is complete, the unit locates to the designated time. After locating, the unit will pause if it had been stopped or paused before or it will continue playback if it had been playing before.

#### NOTE

- *The time search function cannot be used with data CDs.*
- *The time search function cannot be used when the cue mode or flash start function is enabled.*
- *When the time search function is set to "TI", the number buttons on the main unit and the remote control cannot be used to select tracks.*
- *Press the CLEAR button on the main unit or the remote control to clear an input time.*
- *If the "17 FRAME" menu item is set to "OFF", only minutes and seconds can be input (frame input is not possible).*

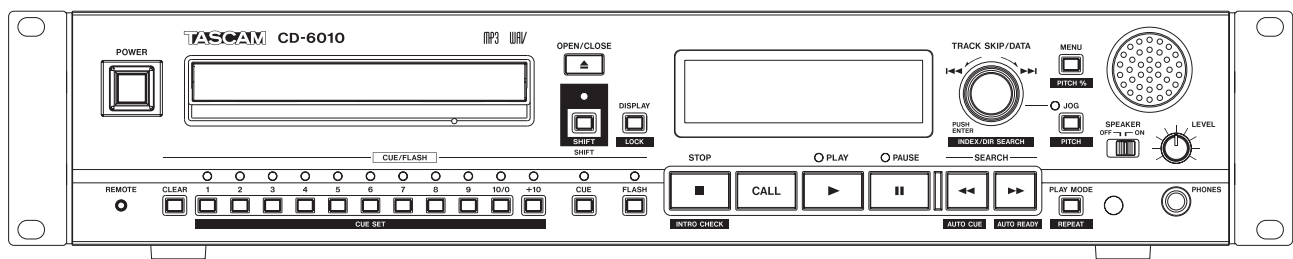
# TASCAM

D01168520A



# CD-6010

## CD Player

### OWNER'S MANUAL



# IMPORTANT SAFETY INSTRUCTIONS

 <b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN 
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.

- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



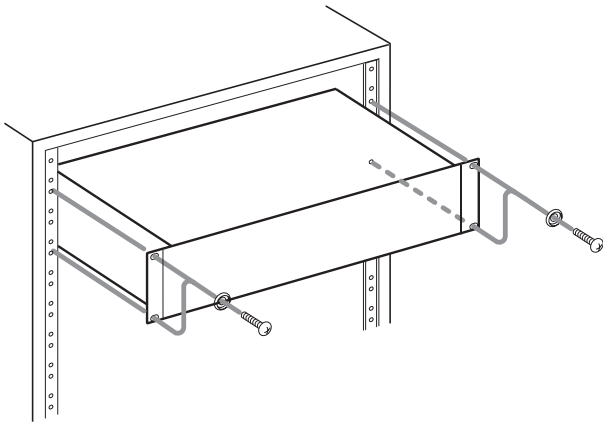
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this apparatus to drips or splashes.
  - Do not place any objects filled with liquids, such as vases, on the apparatus.
  - Do not install this apparatus in a confined space such as a book case or similar unit.
  - The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
  - The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
  - The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
  - Products with Class I construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.
  - If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
  - CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
  - Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

In North America use only on 120V supply.

## ■ RACK-MOUNTING THE UNIT

Use the supplied rack-mounting kit to mount the unit in a standard 19-inch rack, as shown below.

Remove the feet of the unit before mounting.



### NOTE

- Leave 1U of space above the unit for ventilation.
- Allow at least 10 cm (4 in) at the rear of the unit for ventilation.

## ■ For U.S.A.

### TO THE USER

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

## ■ For European Customers

### CE Marking Information

- Applicable electromagnetic environment: E4
- Peak inrush current: 14 A

### Disposal of electrical and electronic equipment

- All electrical and electronic equipment should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
- By disposing of electrical and electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.

- Improper disposal of waste electrical and electronic equipment can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.
- The Waste Electrical and Electronic Equipment (WEEE) symbol, which shows a wheeled bin that has been crossed out, indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.



- Return and collection systems are available to end users. For more detailed information about the disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.

### Disposal of batteries and/or accumulators

- Waste batteries and/or accumulators should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
- By disposing of waste batteries and/or accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- Improper disposal of waste batteries and/or accumulators can have serious effects on the environment and human health because of the presence of hazardous substances in them.
- The WEEE symbol, which shows a wheeled bin that has been crossed out, indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.



If a battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) as defined in the Battery Directive (2006/66/EC), then the chemical symbols for those elements will be indicated beneath the WEEE symbol.

- Return and collection systems are available to end users. For more detailed information about the disposal of waste batteries and/or accumulators, please contact your city office, waste disposal service or the shop where you purchased them.

### WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

# Safety Information

## ■ CAUTIONS ABOUT BATTERIES

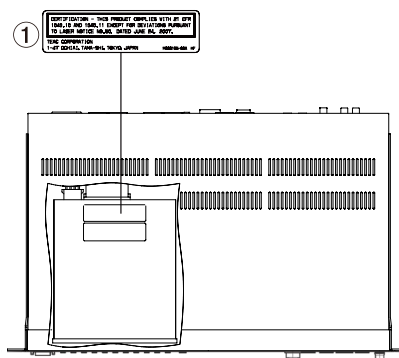
This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/-) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

## ■ CAUTIONS ABOUT LASER RADIATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.



### Cautions:

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.

### Optical pickup

Type	: HOF-1501XB
Manufacturer	: Hitachi Media Electronics
Laser output	: Less than 0.5 mW on the objective lens
Wavelength	: 785 nm ±22nm
Standard	: IEC60825-1 : 2007

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number

\_\_\_\_\_

Serial number

\_\_\_\_\_

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## For China

### 产品有毒有害物质或元素的名称及含量

机种：CD-6010		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	PCB Assy部份	×	○	○	○	○	○
3	线材部份	○	○	○	○	○	○
4	附属品部份	×	○	○	○	○	○
7	SEAL部份	○	○	○	○	○	○
8	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含有量均在 SJ/T11363-2006 标准规定的限量要求以下。

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(针对现在代替技术困难的电子部品及合金中的铅)

Thank you very much for purchasing the TASCAM CD-6010 CD Player.

Before connecting and using the unit, please take time to read this manual thoroughly to ensure you understand how to properly set up and connect the unit, as well as the operation of its many useful and convenient functions. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download the Owner's Manual from the TASCAM web site (<http://tascam.com/>).

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## Features

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- Anti-shock memory prevents skipping caused by vibrations, for example
- $\pm 16\%$  pitch control
- Plays ordinary audio CDs and CD-R discs, including files in both MP3 and WAV formats
- Cueing with one-frame precision
- Parallel control connector
- When using the parallel connector, the transport mode, including fader start and event start, as well as flash start and direct start modes can be set
- RS-232C serial connector can be used to connect a computer or external controller to control the unit
- Memory can store program and cue point information for up to 100 discs
- Incremental play function
- Auto-ready function can automatically pause playback after track completes playing at the beginning of the next track
- Auto-cue function can ready the unit to start playback of a track from the moment sound starts
- Transport and pitch can be controlled using a TASCAM RC-3F footswitch (sold separately)
- Supports direct start and flash start using RC-SS20 (parallel connector) and RC-20 (remote connector) units (sold separately)
- Flash start function enables playback without delay (up to 20 tracks: tracks 1–20, the first 20 tracks in the program or the first 20 cue points)
- Number buttons on the front panel can be used for track selection, cue point recall and flash start operation
- Skip back function can go back a few seconds (amount can be set) during playback
- TASCAM RC-500 wireless remote control included (can be disabled using a setting on the main unit)
- Gap between tracks during playback can be set
- Balanced output level can be set by making an internal adjustment (please contact customer support)
- Analog output attenuation function
- Panel buttons can be locked to prevent misoperation

- Tray lock function can be used to prevent the tray from being opened during playback or when paused
- High-performance tray-loading CD drive
- RCA unbalanced outputs
- Coaxial digital output
- XLR balanced outputs
- XLR digital output
- Monophonic output possible
- Playback modes include all tracks (ALL), one track (SINGLE), program (up to 100 tracks) and random
- Repeat function for all playback modes and A-B interval looping
- Display can be set to show track elapsed time, track remaining time or disc remaining time
- CALL function can be used to return to the last point where playback started
- Intro check function
- Fade in and fade out can be set from 0 to 10 seconds in 0.5-second intervals
- Automatic playback when power turned on possible
- Relay playback of multiple units possible
- Index search (audio CD (CD-DA) only) and directory search (MP3 or WAV file discs only) functions
- Resume function remembers the last point when playback stopped
- Support for EOM display showing the end of a track
- Monitoring features on the front panel include a headphones jack, a speaker with an ON/OFF switch and a level knob

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## Included items

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The included items are listed below.

Take care when opening the package not to damage the items. Keep the package materials for transportation in the future.

Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

- Main unit..... 1
- Power cord ..... 1
- Wireless remote control (TASCAM RC-500) ..... 1
- AAA batteries for the remote control unit..... 2
- A rack-mounting screw kit..... 1
- A warranty card ..... 1
- Owner's manual (this manual) ..... 1

# 1 – Introduction

## About this manual

In this manual, we use the following conventions:

- The names of buttons and controls are given in the following typeface: **SHIFT**.
- Messages on the unit's display are shown like this: **ON**
- The CD-DA format may also be mentioned as "audio CD" format.
- CDs on which MP3 or WAV audio files are recorded may be mentioned as "data CDs".
- Additional information is introduced in the styles below when needed:

### NOTE

*Explanation of actions in special situation and supplement.*

### CAUTION

*Instructions that should be followed to avoid injury, damage to the unit or other equipment, and loss of data.*

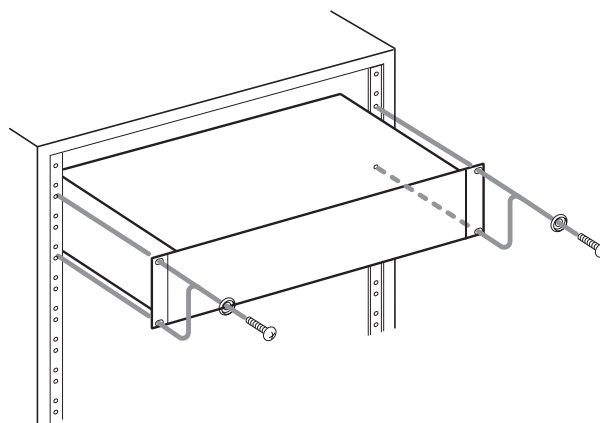
## Trademarks

- TASCAM is a trademark of TEAC Corporation, registered in the U.S. and other countries.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

## Precautions for placement and use

- The operating temperature should be between 5°C and 35°C (41°F and 95°F).
- Do not install in the following types of places. Doing so could degrade the sound quality and/or cause malfunctions.
  - Places with significant vibrations or that are otherwise unstable
  - Near windows or other places exposed to direct sunlight
  - Near heaters or other extremely hot places
  - Extremely cold places
  - Places with bad ventilation or high humidity
  - Very dusty locations

- This unit can be installed at an angle of  $\pm 15^\circ$ .
- Do not place any object on the unit for heat dissipation.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.
- To mount this unit in a rack, use the included rack mounting screw kit to mount it as shown below. Leave at least 1 U (5 cm) of open space above the unit.



## Connecting the power

- Insert the included power cord into the **AC IN** connector completely.
- Hold the power cord by the plug when connecting or disconnecting it.

## Beware of condensation

If the unit is moved from a cold to a warm place, or used immediately after a cold room has been heated or otherwise exposed to a sudden temperature change, condensation could occur. Should this happen, leave the unit for one or two hours before turning the unit on.

## Cleaning the unit

To clean the unit, wipe it gently with a soft dry cloth. Do not wipe with chemical cleaning cloths, benzene, paint thinner, ethyl alcohol or other chemical agents to clean the unit as they could damage the surface.

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## About discs

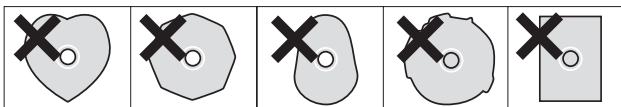
---

In addition to commercially-available music CDs, this unit can play CD-R discs that have been recorded in audio CD (CD-DA) format, as well as CD-R discs that have MP3 audio and WAV audio files recorded on them.

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## Handling of compact discs

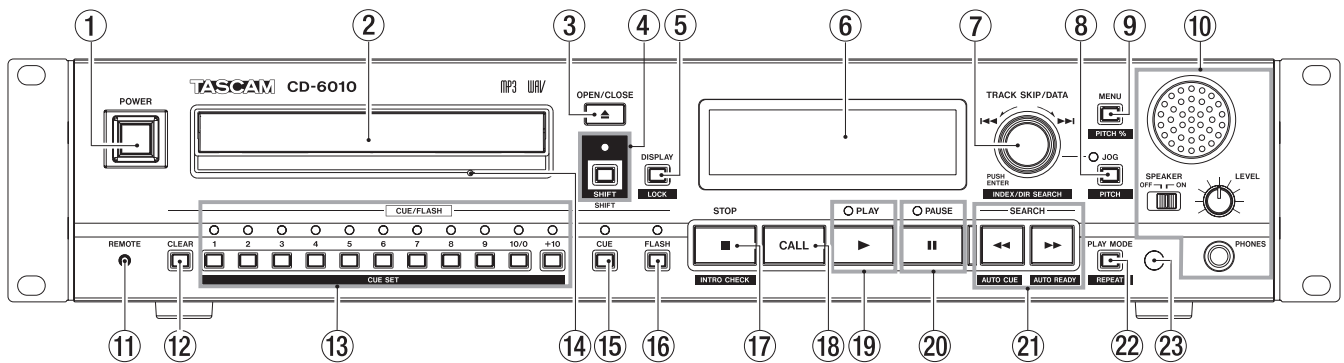
- Always insert the compact discs in the slot with their label facing upward.
- To remove a disc from its case, press down on the center of the disc holder, then lift the disc out, holding it carefully by the edges.
- Do not touch the signal side (the unlabeled side). Fingerprints, oils and other substances can cause errors during playback.
- To clean the signal side of a disc, wipe gently with a soft dry cloth from the center towards the outside edge. Dirt on discs can lower the sound quality, so clean them and always store them in a clean state.
- Do not use any record spray, anti-static solutions, benzene, paint thinner or other chemical agents to clean CDs as they could damage the delicate playing surface. It may cause CDs to become unplayable.
- Do not apply labels or other materials to discs. Do not use discs that have had tape, stickers or other materials applied to their surface. Do not use discs that have sticky residue from stickers, etc. Such discs could become stuck in the unit or cause it to malfunction.
- Never use a commercially available CD stabilizer. Using stabilizers with this player will damage the mechanism and cause it to malfunction.
- Do not use cracked discs.
- Only use circular compact discs. Avoid using non-circular promotional discs, etc.



- Music discs with copy control, a copy-protection system, have been released from several record companies in an attempt to protect the copyright. Since some of these discs do not comply with the CD specifications, they may not be playable on the unit.

# 2 – Names and Functions of Parts

## Front panel



### ① POWER switch

Press to turn the power on and off.

#### CAUTION

Before turning the power on, minimize the volume of other equipment that is connected to this unit. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

### ② Disc tray

Press the **OPEN/CLOSE** button to open the disc tray when you want to load or remove a disc. To close the disc tray, press the **OPEN/CLOSE** button again.

### ③ OPEN/CLOSE button

Press to open and close the disc tray.

### ④ SHIFT button and indicator

Press this button to activate shift mode. When the shift mode is active, the indicator lights and the shift functions of other buttons are enabled. (Shift functions are shown below buttons with white lettering on a dark blue background.) After pressing one of these buttons, shift mode is automatically ended and the indicator becomes unlit.

#### NOTE

- When in shift mode, press the **SHIFT** button again to end shift mode (and turn off the indicator). After searching folders/directories, if the **SHIFT** indicator is lit, press the **SHIFT** button to end shift mode.
- You can also press a button with a shift function while pressing and holding the **SHIFT** button to use its shift function.

### ⑤ DISPLAY [LOCK] button

Press this button when the playback time is shown to switch the playback time display mode (track elapsed time, track remaining time or total remaining time). (See "Changing the playback time display mode" on page 32.)

When in menu mode, press this button to exit menu mode.

To turn the panel lock function on and off, press and hold this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. This function prevents the use of the buttons to avoid misoperation.

### ⑥ Display

Shows various types of information.

### ⑦ TRACK SKIP/DATA [INDEX/DIR SEARCH] knob

This is a multifunction knob that works as both a dial and a button. Use this knob to select (skip) tracks, select indexes, select directories, set the pitch control value, use menus, set the A-B repeat interval and as a jog dial, for example.

To select an index, turn this knob when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. When working with a data CD, use this function to select a directory. What happens after selection depends on the auto cue function setting. (See "Skipping to the next or previous track" on page 22.)

When in program setting mode, use this function to select tracks.

When in menu mode, turn this knob to select items and press it to confirm a selection. (See "Menu operation basics" on page 19.)

When in pitch adjustment mode, turn this knob to adjust the pitch value. (See "Pitch control playback" on page 26.)

When in jog mode, use this knob as a jog dial to search one frame at a time. (See "Using the jog function to search" on page 23.)

When using the A-B repeat function, press this knob to set the A and B points. (See "A-B repeat playback" on page 26.)

### ⑧ JOG [PITCH] button

Press this button to start jog mode. (See "Using the jog function to search" on page 23.)

To turn the pitch function ON/OFF, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Pitch control playback" on page 27.)

## 2 – Names and Functions of Parts

### ⑨ **MENU [PITCH] button**

Press this button to start menu mode. When in menu mode, press this button to exit menu mode. (See "Menu operation basics" on page 19.)

To enter pitch adjustment mode, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Pitch control playback" on page 27.)

### ⑩ **SPEAKER, ON/OFF switch, LEVEL knob & PHONES jack**

Use the built-in mono speaker or stereo headphones to monitor the playback signal without needing to connect speakers.

Use the **SPEAKER** switch to turn the built-in speaker **ON** and **OFF**.

When headphones are connected, this speaker is disabled regardless of the **SPEAKER** switch position.

Connect stereo headphones to the standard stereo **PHONES** jack.

Use the **LEVEL** knob to adjust the output level of the built-in speaker and the headphones.

#### **CAUTION**

*Before connecting headphones, turn the PHONES knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.*

### ⑪ **REMOTE jack (2.5mm TRS)**

Use this jack to connect a TASCAM RC-3F footswitch or TASCAM RC-20 direct playback remote control (sold separately). Use a remote control for flash starting and stopping playback, for example.

### ⑫ **CLEAR button**

Press this button to cancel the input of a number button.

When the CUE mode is ON, press a number button while pressing and holding this button to clear the corresponding cue point.

Press and hold when the program menu is open to clear all programs.

### ⑬ **Number buttons**

Use these number buttons to designate track numbers to select songs. Input two digits for audio CDs and three digits for data CDs. (See "Designating track numbers" on page 22.)

When CUE mode is on, use the number buttons to add, recall and delete cue points (up to 20). (See "Cue function" on page 25.)

When the flash start function is on, use the number buttons to flash start tracks or cue points.

Use the **+10** button to switch between 1-10 and 11-20 for flash start program numbers, track numbers and cue numbers.

### ⑭ **Force eject hole**

If the tray will not open ordinarily, insert a fine rod, such as a paperclip, here and press to open the tray.

#### **CAUTION**

*Always turn the power OFF before using the force eject hole.*

### ⑮ **CUE button**

Press to turn cue mode ON/OFF.

### ⑯ **FLASH button**

Press to turn the flash start function ON/OFF.

### ⑰ **■ STOP [INTRO CHECK] button**

Press to stop playback.

If the incremental playback function is activated, press this button during playback to pause at the beginning of the next track.

When stopped, to activate the intro check mode, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button.

When this mode is activated, press the **▶ (play)** button to play the first 10 seconds of each track in succession. (See "Intro check mode" on page 27.)

### ⑱ **CALL button**

Press this button to return to the point where playback was last started and pause.

### ⑲ **▶ PLAY button and indicator**

When stopped, press this button to start playback. (The indicator lights during playback.)

When paused, press this button to resume playback.

During playback, press this button to return to the point that was previously set. (See "Skip back playback" on page 30.)

### ⑳ **|| PAUSE button and indicator**

Press during playback to pause (indicator lights).

When the auto-cue function is on, press when stopped to pause at the instant when sound begins in track 1.

When the auto-cue function is off, press when stopped to pause at the beginning of track 1.

### ㉑ **SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons**

During playback or when paused, press the **◀◀** button to search backward, and press the **▶▶** button to search forward. (See "Using the SEARCH buttons" on page 23.)

When in program setting mode, use these to select the program number. (See "Program playback" on page 28.)

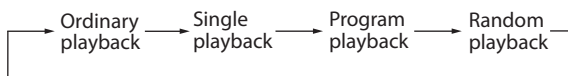
To turn the auto-cue function on and off, press the **◀◀** button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Auto-cue function" on page 24.)

To turn the auto-ready function on and off, press the **▶▶** button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Auto-ready function" on page 24.)

## 2 – Names and Functions of Parts

### 22 PLAY MODE [REPEAT] buttons

Press this button to cycle through the playback modes in the following order. (See "Playback modes" on page 23.)



To turn repeat playback ON/OFF, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button.

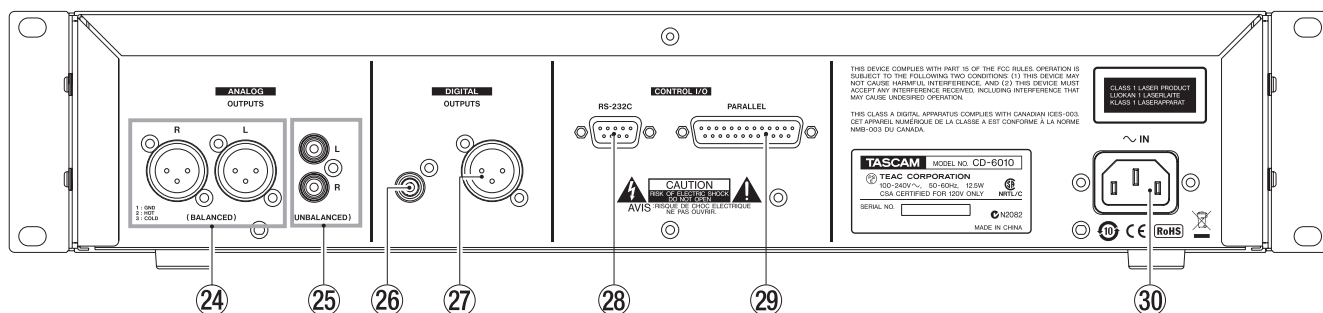
During playback or when paused, to turn A-B repeat mode ON, press and hold this button for at least 1 second when in shift mode (when the **SHIFT** indicator is

lit) or while pressing the **SHIFT** button. (See "A-B repeat playback" on page 26.)

### 23 Remote control receiver

This receives signals from the included TASCAM RC-500 wireless remote control. Point the end of the remote control toward here when using it.

## Rear panel



### 24 ANALOG OUTPUTS (BALANCED) connectors

These are balanced analog outputs for the CD playback signal. The maximum output level is +24 dBu. (1: GND, 2: HOT, 3: COLD)

#### NOTE

*The maximum output level of the analog balanced outputs can be changed internally. Contact our customer support for details.*

### 25 ANALOG OUTPUTS (UNBALANCED) jacks

These are analog outputs for the CD playback signal. The maximum output level is +6 dBV.

### 26 DIGITAL OUTPUTS (COAXIAL) connector

This outputs the CD playback as a S/PDIF or AES/EBU digital signal. Set the format of the output signal using the **22 D-OUT** menu item. (See "Digital output format setting" on page 35.)

#### NOTE

- When playing back MP3 or WAV files, the sampling frequency of this unit's digital outputs is 44.1 kHz.
- When using the pitch control function while playing an audio CD or another disc with MP3 or WAV files, the digital output is at a fixed sampling frequency of 44.1 kHz.

### 27 DIGITAL OUTPUTS (XLR) connector

This outputs the CD playback as a S/PDIF or AES/EBU digital signal. Set the format of the output signal using the **22 D-OUT** menu item. (See "Digital output format setting" on page 35.)

### 28 CONTROL I/O RS-232C connector

This is a D-sub 9-pin RS-232C serial control connector. Connect an external controller, for example, here. (See "Using the RS-232C connector" on page 34.)

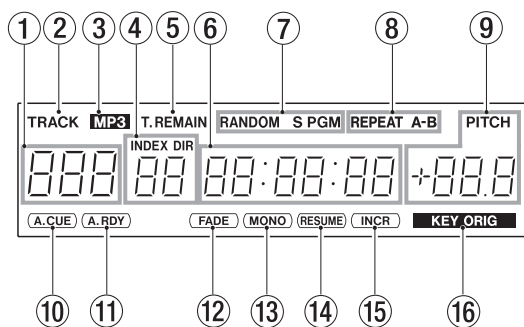
### 29 CONTROL I/O PARALLEL connector

This is a D-sub 25-pin parallel control connector. Use this to connect an external controller, for example. (See "Relay playback" on page 31, "Fader start and stop" on page 34 and "Using the parallel connector" on page 35.)

### 30 AC IN connector

Connect the included power cord here.

### Display



#### ① Track number

This shows the track number during playback and track selection.

When an audio CD is loaded, a two-digit track number is shown. When a data CD is loaded, a three-digit track number is shown

When in menu mode, the menu number is shown here.

#### ② TRACK indicator

This appears when a disc that has files that this unit can play back is loaded.

#### ③ MP3 indicator

This appears when a data CD is loaded.

#### ④ INDEX DIR number

During playback and selection, the index number (audio CD) or directory number (data CD) is shown here.

#### ⑤ Playback time display mode indicator

When the time display is showing the playback time, the following appears depending on the display mode. (See "Changing the playback time display mode" on page 32.)

- When the playback time display mode is set to remaining time, T.REMAIN appears.
- When the playback time display mode is set to track remaining time, REMAIN appears.
- When the playback time display mode is set to track elapsed time, nothing appears here. Likewise, nothing appears when in menu mode or program setting mode.

#### ⑥ Time display

This shows the time of the current playback position.

When in menu mode, the menu item is shown. When menu items are shown, the letters appear as follows.

ABCDEFGHIJKLM NOPQRSTUVWXYZ c g i n o r  
 R b C d E F G H I J K L M N O P Q R S T U V W X Y Z c g i n o r

#### ⑦ Playback mode indicators

The current playback mode is shown.

- Ordinary (all tracks) playback mode: Nothing appears
- Single playback mode: S appears
- Program playback mode: PGM appears
- Random playback mode: RANDOM appears

#### ⑧ Repeat mode indicators

The repeat mode is shown. (See "Repeat playback" on page 26 and "A-B repeat playback" on page 26.)

- Repeat mode: REPEAT appears
- A-B repeat mode: REPEAT and A-B appear (Before the A and B points have been set, the indicator shown here will vary depending on the status. For details, see "A-B repeat playback" on page 26.)

#### ⑨ PITCH indicator (and pitch adjustment)

When the pitch control function is ON, PITCH appears, and the amount of speed change is shown. (See "Pitch control playback" on page 27.)

When in menu mode, the setting value of the menu item is shown.

#### ⑩ A.CUE (auto-cue) indicator

When the auto-cue function is on, AUTO CUE appears. (See "Auto-cue function" on page 24.)

#### ⑪ A.RDY (auto-ready) indicator

When the auto-ready function is on, A.RDY appears. (See "Auto-ready function" on page 24.)

#### ⑫ FADE indicator

When the fade in/out function is on, FADE appears. (See "Fade in/fade out playback" on page 30.)

#### ⑬ MONO indicator

When the mono output function is on, MONO appears. (See "Outputting in mono" on page 33.)

#### ⑭ RESUME indicator

When the resume function is on, RESUME appears. (See "Resume function" on page 24.)

#### ⑮ INCR indicator (incremental play)

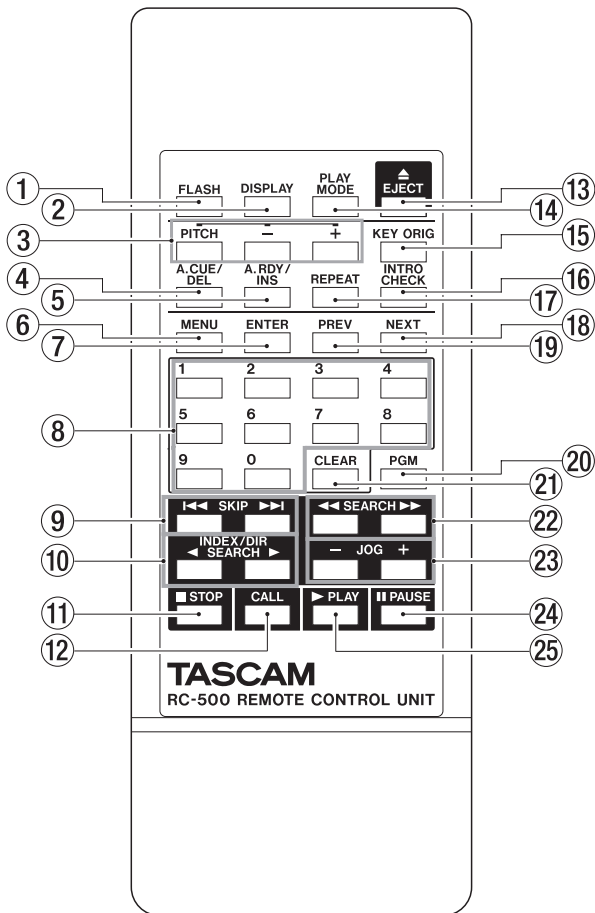
When the incremental play function is on, INCR appears. (See "Incremental play function" on page 25.)

#### ⑯ KEY ORIG (original key) indicator

When the original key function is on, KEY ORIG appears. (See "Changing the playback speed without changing the pitch (KEY ORIG)" on page 28.)

## 2 – Names and Functions of Parts

### Wireless remote control (TASCAM RC-500)



#### ① FLASH button

Press to turn the flash start function on and off.

#### ② DISPLAY button

Press this button to change the playback time display mode shown (track elapsed time, track remaining time or remaining time). (See “Changing the playback time display mode” on page 32.)

When in menu mode, press this button to exit menu mode.

#### ③ PITCH and –/+ buttons

Press the **PITCH** button to turn the pitch control function on and off. Use the – and + buttons to set the pitch control value. (See “Pitch control playback” on page 27.)

#### ④ A.CUE/DEL button

Press this to turn the auto-cue function on and off. (See “Auto-cue function” on page 24.)

Use this also to delete program tracks. (See “Program playback” on page 28.)

#### ⑤ A.RDY/INS button

Press this to turn the auto-ready function on and off. (See “Auto-ready function” on page 24.)

Use this also to add program tracks. (See “Program playback” on page 28.)

#### ⑥ MENU button

Press this button to enter menu mode. When in menu mode, press this button to exit menu mode. (See “Menu operation basics” on page 19.)

#### ⑦ ENTER button

When in menu mode, press to confirm a menu item selection or setting value. (See “Menu operation basics” on page 19.)

When using the A-B repeat function, press this to set the A and B points. (See “A-B repeat playback” on page 26.)

#### ⑧ Number buttons

Use these number buttons to designate track numbers to select songs. Input two digits for audio CDs and three digits for data CDs. (See “Designating track numbers” on page 22.)

#### ⑨ SKIP (I<<< / >>>I) buttons

Use these buttons for track selection (skipping).

Set the auto-cue function to determine what happens after selection. (See “Skipping to the next or previous track” on page 22.)

In program setting mode, use these to select tracks for the program. (See “Program playback” on page 28.)

#### ⑩ INDEX/DIR SEARCH (◀/▶) buttons

Use these to select indexes on an audio CD or directories on a data CD. Set the auto-cue function to determine what happens after selection. (See “Selecting indexes and directories” on page 22.)

#### ⑪ ■ STOP button

Press to stop playback. If the incremental play function is activated, press this button during playback to pause at the beginning of the next track. (See “Incremental play function” on page 25.)

#### ⑫ CALL button

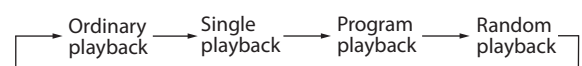
During playback or when paused, press this button to return to the point where playback was last started and pause. (See “Call function” on page 25.)

#### ⑬ EJECT button

Press this to open and close the disc tray.

#### ⑭ PLAY MODE button

Press this button to cycle through the playback modes. Choose from ordinary, single, program and random.



#### ⑮ KEY ORIG button

Turn the original key function, which changes the speed without changing the pitch, on and off. (See “Changing the playback speed without changing the pitch (KEY ORIG)” on page 28.)

## 2 – Names and Functions of Parts

### 16 INTRO CHECK button

When stopped, during playback or when paused, press this button to activate intro check mode. When in intro check mode, press the ► **PLAY** button to play the first 10 seconds of each track in succession. (See “Intro check mode” on page 27.)

### 17 REPEAT button

Press to turn the repeat playback function on and off. (See “Repeat playback” on page 26.)

Press and hold for more than one second to turn the A-B repeat function on. (See “A-B repeat playback” on page 26.)

### 18 NEXT button

When in menu mode, press to select the next value (menu item or setting value). (See “Menu operation basics” on page 19.)

### 19 PREV button

When in menu mode, press to select the previous value (menu item or setting value). (See “Menu operation basics” on page 19.)

### 20 PGM button

Press to open program setting mode. (See “Program playback” on page 28.)

### 21 CLEAR button

Press this button to cancel the input of a number button.

Press and hold when the program menu is open to clear the program.

#### NOTE

*Unlike the CLEAR button on the main unit, the CLEAR button on the wireless remote control cannot be pressed and held while pressing a number button to delete a cue point.*

### 22 SEARCH (◀◀/▶▶) buttons

During playback or when paused, press the ◀◀ button to search backward, and press the ▶▶ button to search forward. (See “Using the SEARCH buttons” on page 23.)

When in program setting mode, use these to select the program number. (See “Program playback” on page 28.)

### 23 JOG (–/+ ) buttons

When paused, press a **JOG** (+ or –) button to enter jog mode. Press the + button to advance one frame, and press the – button to go back one frame. (See “Using the jog function to search” on page 23.)

### 24 II PAUSE button

Press during playback to pause.

When the auto-cue function is on, press when stopped to pause at the instant when sound begins in track 1. When the auto-cue function is off, press when stopped to pause at the beginning of track 1.

### 25 ► PLAY button

When stopped, press this button to start playback.

When paused, press this button to resume playback.

When the incremental play function is on, press this button during playback to start playback of the next track. When the incremental play function is off, press this button during playback to use skip back playback.

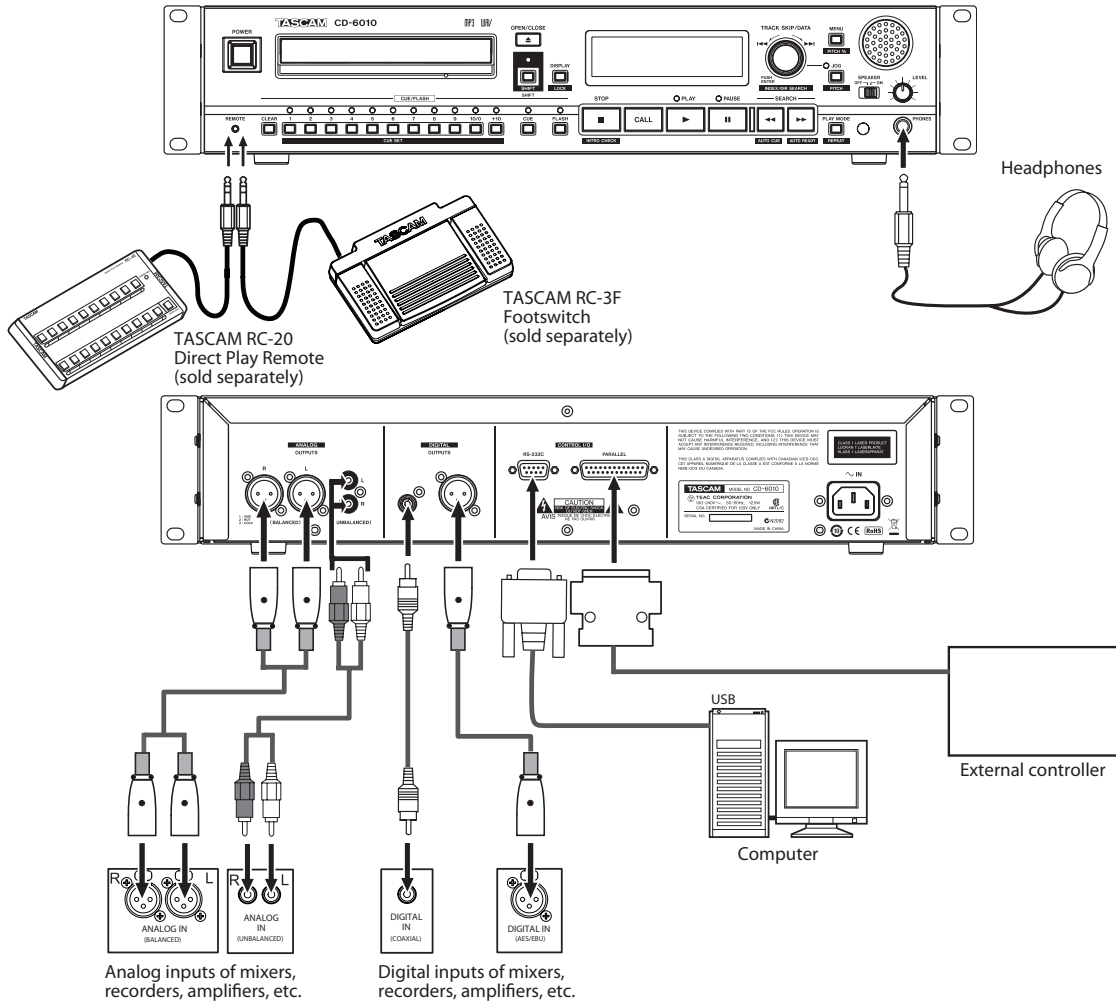
# 3 – Preparation

## Making connections

The illustration below shows an example of connecting other equipment with a CD-6010.

### Precautions before making connections

- Before connecting other devices to the unit, read their manuals carefully.
- Turn off the power (or put power into standby mode) for this unit and all equipment that will be connected to it.
- Connect all the devices to the same power supply line. When using a power strip, for example, use a thick cable with a high current capacity to minimize variation in the power voltage.



### Connecting a footswitch

Connect a TASCAM RC-3F footswitch (sold separately) to the **REMOTE** connector to enable it to control some unit operations. (See “Controlling the player with a footswitch” on page 33.)

### Connecting a direct play remote

Connect a TASCAM RC-20 direct play remote (sold separately) to the **REMOTE** connector to enable it to control some unit operations. (See “Controlling the player with a direct play remote” on page 34.)

### Connecting headphones

Connect stereo headphones to the **PHONES** jack on the front panel. Use the **PHONES** knob to adjust the volume.

### CAUTION

Before connecting headphones, turn the **PHONES** knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

### Connecting with a computer

Connect the **RS-232C** connector on this unit to a RS-232C connector on a computer to allow serial control of this unit from that computer.

After connecting the unit to a computer, make transmission settings correctly on this unit. (See “Using the RS-232C connector” on page 34.)

## Connecting digital audio equipment

Connect the digital inputs of stereo amplifiers, mixers, recorders and other digital equipment to this unit's digital output connectors.

## Connecting analog audio equipment

Connect the analog inputs of stereo amplifiers, mixers, recorders and other analog equipment to this unit's analog output connectors.

### NOTE

- Cables are not included with this unit.
- Do not bundle RCA cables with power cords or speaker cables. Doing so could noise or otherwise reduce sound quality.

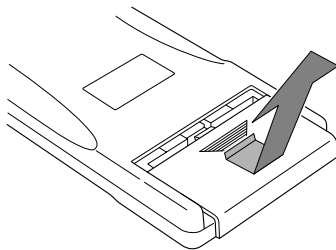
## Using the parallel connector

To use an external controller for parallel control of the unit, use the **CONTROL I/O PARALLEL** connector (D-Sub 25-pin). For the pin assignments of the PARALLEL connector, see "Using the parallel connector" on page 35.

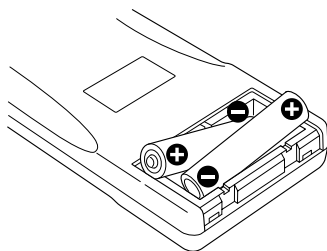
## Preparing the remote control

### Inserting batteries

- 1 Open the cover on the back of the remote control.



- 2 Insert two AAA batteries with the correct ± orientations.



- 3 Close the cover.

### When to replace the batteries

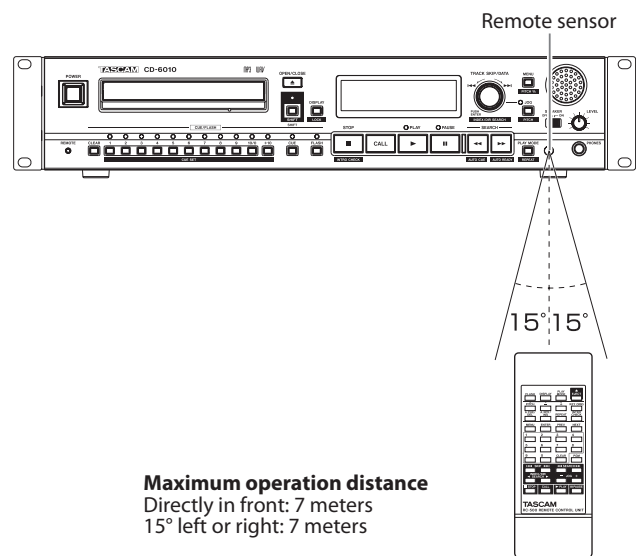
Replace both batteries with new ones when the range of the remote control becomes short or if the buttons become unresponsive.

## Precautions about using batteries

Misuse of batteries could cause them to leak, rupture or otherwise be damaged. Please read and abide by the precautions on the battery labels when using them. See page 4 of this manual for additional precautions.

## Precautions about using the remote control

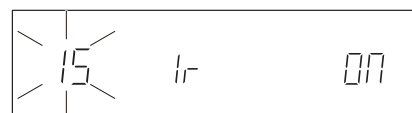
- When using other devices controlled by infrared rays, use of this remote control might operate these devices by mistake.
- Use the remote control within the following range.



## Remote control reception settings

Operation of the unit using the remote control can be disabled in order to prevent misoperation.

Use the 15 IR menu item to set whether or not the unit can be operated by remote control (default value: ON).



### NOTE

- If remote control reception has been set to OFF, IR OFF will appear on the display when any of the remote control buttons are pushed.
- The remote control reception setting (on/off) is saved even if the unit's power is turned off.

## 3 – Preparation

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### Panel lock function

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When in shift mode (when the **SHIFT** indicator is lit), press and hold the **DISPLAY [LOCK]** button to turn the panel lock function on or off. You can also turn it on/off by pressing the **DISPLAY [LOCK]** button while pressing and holding the **SHIFT** button.

When it is on, all the buttons on the front panel of the unit (except the **SHIFT** and **DISPLAY [LOCK]** buttons) and the remote control are disabled. **LOCKED** will appear on the display if you push any of the buttons.

#### NOTE

- *Even when the panel lock function is enabled, the unit can be controlled by a TASCAM RC-3F footswitch connected to the REMOTE jack on the front panel and external controllers connected to the RS-232C connector and CONTROL I/O PARALLEL connectors on the rear panel.*
- *The panel lock setting (on/off) is saved even if the unit power is turned off.*

Use the unit's menu system to make various settings. Among the menu setting items are some that can also be set using dedicated buttons on the remote control.

## Menu structure

The menu structure of the unit includes the following items.

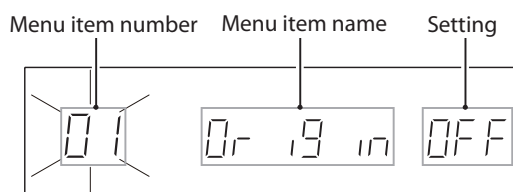
Menu number	Item	Function set	Reference
01	Origin	Original key	Page 28
02	TRAY	Tray lock	Page 21
03	A_CUE	Auto-cue level	Page 24
04	Prog	Program	Page 28
05	FADE	Fade in/out playback	Page 30
06	EOM_D	DISC EOM time display	Page 32
07	P onPL	Power on play	Page 27
08	Mono	Mono output	Page 33
09	RESUM	Resume	Page 24
10	EOM_T	TRACK EOM time display	Page 32
11	Inc-P	Incremental play	Page 25
12	P-STEP	Pitch control steps	Page 28
13	232C	Baud rate	Page 34
14	S-BAC	Skip back	Page 30
15	IR	Remote control reception	Page 17
16	INTVAL	Silent interval between tracks	Page 33
17	FRAM	Frame time display	Page 32
18	REMOT	Footswitch mode	Page 33
19	ATT	Analog attenuation	Page 35
20	RESET	Restore unit to factory defaults	Page 34
21	INFO	View the firmware version	Page 35
22	D-OUT	Digital output format	Page 35

## Menu operation basics

The basic procedures for making settings using the menu system are as follows.

- 1 **When the display shows the usual playback information, press the MENU button on the unit or the included TASCAM RC-500 remote control.**

The center area of the display shows the menu item selected. The menu item that was selected the last time that the unit was in menu mode appears.



- 2 **Use the unit's front panel buttons or the remote control to conduct the following operation to select the desired menu item.**

- **When using the front panel buttons:** Turn the **TRACK SKIP/DATA** knob or use the number buttons to select the menu item, and press the **TRACK SKIP/DATA** knob to confirm.
- **When using the remote control:** Use the **PREV** and **NEXT** buttons, as well as the number buttons to select the menu item, and press the **ENTER** button to confirm.

### NOTE

- The menu item number blinks before it has been confirmed.
- When using the number buttons input two digits to select menu items. For example, to select menu number 06, press the 0 button followed by the 6 button.

The following step (3) applies to all items except 04 PROG, 20 RESET and 21 INFO. See their explanations for instructions about how to use these items.

- 3 **Select the desired value.**

- **When using the front panel buttons:** Turn the **TRACK SKIP/DATA** knob to select the value and press the **TRACK SKIP/DATA** knob to confirm the setting.
- **When using the remote control:** Use the **PREV** and **NEXT** buttons to select the value and press the **ENTER** button to confirm the setting.

### NOTE

- When a value different from the active setting is selected, the value blinks. After the new setting is confirmed, menu item selection mode appears again.
- To cancel a setting change, press the **MENU** button on the unit or the remote control.

- 4 **Repeat steps 2–3 again as necessary.**

- 5 **To exit menu mode, press the MENU button on the unit or the remote control.**

# 5 – Operation

## Compatible disc and file types

This unit can play the following types of discs and files.

### CD-DA format discs (audio CDs)

This unit can play commercially-available music CDs and CD-R discs that have been recorded in audio CD format. These types of discs are called “audio CDs” in this manual.

This unit cannot play unfinalized CD-R discs.

### CD-ROM format discs (data CDs)

This unit can play discs that have MP3 and WAV files and use ISO 9660 Level 1, Level 2 or Joliet file system formats. These types of discs are called “data CDs” in this manual.

#### NOTE

- This unit can play back MP3 files that have sampling frequencies of 32, 44.1 and 48 kHz and have bit-rates of 32–320 kbps or are variable bit-rate (VBR).
- This unit can play back WAV files that have sampling frequencies of 32 kHz/44.1 kHz/48 kHz and are 16-bit.
- When playing back MP3 or WAV files, the sampling frequency of this unit's digital outputs is 44.1 kHz. When the pitch control function is enabled, output is also digital, and some devices might not be able to receive digital output from this unit.
- This unit uses the “.mp3” file extension to recognize MP3 files. Always add the “.mp3” extension to MP3 file names. The player cannot play back MP3 files that do not have the “.mp3” extension. In addition to having the “.mp3” extension, the file must also be in the proper MP3 data format to allow playback by this unit.
- This unit uses the “.wav” file extension to recognize WAV files. Always add the “.wav” extension to WAV file names. The player cannot play back WAV files that do not have the “.wav” extension. In addition to having the “.wav” extension, the file must also be in the proper WAV data format to allow playback by this unit.
- Discs that contain more than 1000 files or 255 directories might not play back correctly.
- Depending on the condition of a disc, this unit might not be able to play it back, or skipping might occur.

## Directories and tracks on data CDs

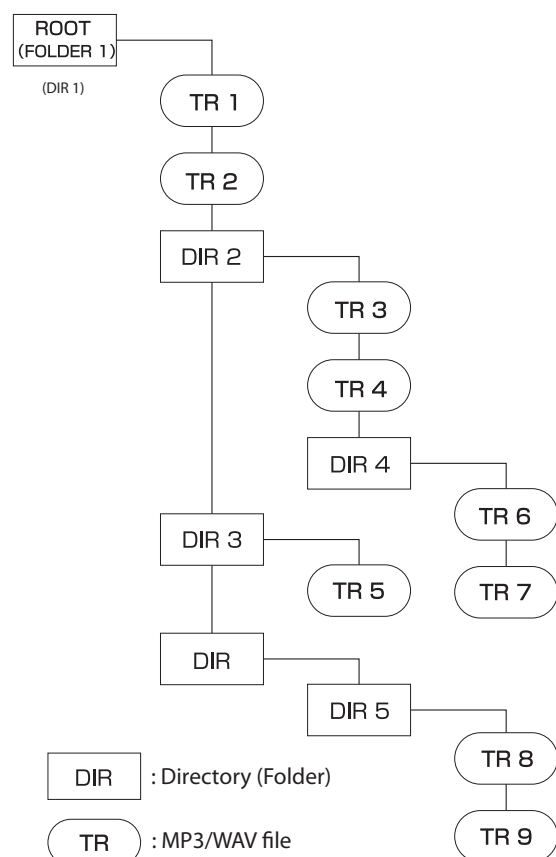
This unit treats all the audio (WAV and MP3) files on data CDs as “tracks.” Some data CDs store files inside directories (folders) in the same way that ordinary computers do. In addition, directories can be stored inside other directories creating a multilevel structure.

This unit assigns a directory number to each directory to manage them. Directory numbers are assigned sequentially starting with the directories at the highest level followed by the directories (subfolders) inside them. If the root directory of a data CD contains one or more audio files, it will be numbered as the first directory.

Each audio file is also assigned a track number. Track numbers are assigned in order starting from those in the lowest numbered directory.

During ordinary playback of data CDs, tracks are played back in the assigned numerical order just like those on an audio CD.

Directories that do not directly contain audio files are not given numbers. For example, in the illustration below the directory that contains Directory 5 is not given a number.



An example of data CD structure

## Loading discs

### Inserting a disc

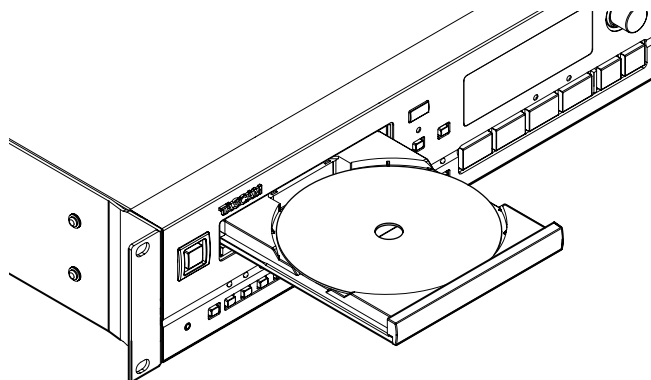
To load a CD, press the **OPEN/CLOSE** button on the unit or the **EJECT** button on the remote control to open the disc tray. Load the disc with its label side up.

Press the **OPEN/CLOSE** button or the **EJECT** button again to close the disc tray.

After a disc is loaded, the player will read its information. If it is an audio CD, the display will show the total number of tracks and total playback time. If it is a data CD, the display will show the total number of tracks in the current folder.

#### NOTE

You can also press the ► [PLAY] button to close the disc tray and start playback immediately instead of pressing the OPEN/CLOSE button or the EJECT button again to close the disc tray.



### Ejecting a disc

Press the **OPEN/CLOSE** button on the player or **EJECT** button on the remote .

Remove the disc after the tray opens.

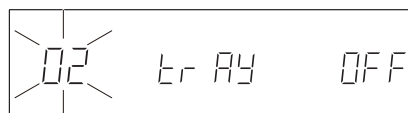
#### NOTE

- In order to reduce the disc ejection time, the tray opens before the disc stops spinning completely.
- The OPEN/CLOSE button functions when the power is ON. If you must remove a disc when the power is OFF, insert a paperclip or similar stiff rod into the hole beneath the tray and push to open the tray.

## Tray lock function

The tray lock function allows you to disable the operation of the **OPEN/CLOSE** button on the player during playback and when paused in order to prevent playback from being interrupted if this button is pressed accidentally.

To turn the tray lock function on, set the 02 TRAY menu item to LOK (default value: OFF).



#### NOTE

The tray lock function on/off setting is maintained even when the player's power is turned off.

## Playing back a CD

The following procedures assume that the necessary connections have been completed, the player's power has been turned on and a CD (audio or data) has been loaded.

To start playback, press the ► [PLAY] button on the player or the ► **PLAY** button on the remote.

### Stopping playback

Press the ■ **STOP [INTRO CHECK]** button on the player or the ■ **STOP** button on the remote.

### Pausing playback

Press the || [PAUSE] button on the player or the || **PAUSE** button on the remote.

To restart playback, press the ► [PLAY] button on the player or the ► **PLAY** button on the remote.

#### NOTE

In this manual, unless stated otherwise, explanations assume that continuous playback mode is enabled. (See "Playback modes" on page 23.)

## 5 – Operation

### Selecting a track

You can move (skip) to the previous or next track, or you can select a track directly by its track number.

### Skipping to the next or previous track

Press the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob on the player or the **SKIP** ◀◀ / ▶▶ button on the remote to select a track. What happens after you use **SKIP** buttons to select a track depends on whether the auto-cue function is on or off. (See “Auto-cue function” on page 24.)

#### When stopped

If the auto-cue function is off, after a track is selected, playback pauses at the beginning of that track. After this, press the ▶ [PLAY] button on the unit or the ▶ **PLAY** button on the remote to start playback.

If the auto-cue function is on, playback pauses at the instant when sound begins in the track. To start playback after this, press the ▶ [PLAY] button on the player or the ▶ **PLAY** button on the remote.

#### During playback

The selected track will start playing back.

#### When paused

If the auto-cue function is off, playback pauses at the beginning of the selected track.

If the auto-cue function is on, playback pauses at the instant when sound begins in the track.

#### NOTE

*If you press the ◀◀ button once during playback or when paused, playback will skip to the beginning of the current track. However, if playback is one second or less from the beginning of the current track, pressing the ◀◀ button will skip to the previous track.*

### Designating track numbers

Use the number buttons on the player or the remote to directly designate track numbers.

#### ■ With audio CDs

Enter two digits. For example, if the track number is “9”, enter “0” followed by “9”.

#### ■ With data CDs

Enter three digits. For example, if the track number is “105”, enter “1”, “0” and then “5”. If the track number is “4”, enter “0”, “0” and then “4”.

#### When stopped, use the number buttons to designate a track number and,

- If the auto-cue function is off, pause at the beginning of the designated track. After this, press the ▶ [PLAY] button on the unit or the ▶ **PLAY** button on the remote to start playback.

- If the auto-cue function is on, pause playback at the instant when sound begins in that track.

#### During playback, use the number buttons to designate a track number and start playback of that track.

#### When paused, use the number buttons to designate a track number and,

- If the auto-cue function is off, pause playback at the beginning of that track.
- If the auto-cue function is on, pause playback at the instant when sound begins in that track.

### Selecting indexes and directories

You can select track indexes on audio CDs and directories on data CDs.

#### NOTE

- *Audio CD indexes are divisions within tracks. In other words, they are units that are smaller than tracks.*
- *Data CD directories are folders that contain MP3 and WAV files (tracks). In other words, they are units that are larger than tracks.*

Use the following procedures to select indexes and directories.

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit) use the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob to select them. You can also do this by pressing the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob while pressing and holding the **SHIFT** button.

#### Using the remote control:

Use the **INDEX/DIR SEARCH** ◀ / ▶ buttons to select them.

When a data CD directory is selected, the first track inside that directory will automatically start playing back (unless the auto-cue function is on, in which case it will pause at the instant when sound first begins in the first track).

When an audio CD index is selected, playback of the track from the selected index will begin (unless the auto-cue function is on, in which case it will pause at the instant sound first begins in the designated index).

## Using the SEARCH buttons

You can search forward and backward in a track while listening to it.

- 1 Play or pause the desired track.
- 2 Press and hold a SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] button on the player or a SEARCH ◀◀/▶▶ button on the remote to start searching forward or backward.
- 3 Release the button that you are holding to stop searching and return the player to the state it was in before searching (playback or pause).

### NOTE

The search function cannot be used with data CDs.

## Using the jog function to search

You can use the jog function to search a track one frame at a time. However, this function cannot be used with data CDs.

### Using the front panel buttons:

When paused, press the **JOG** button to enter jog mode, and turn the **TRACK SKIP/DATA** knob to search the track one frame at a time.

### Using the remote control:

When paused, press a **JOG (+/-)** button to enter jog mode. Press the + button to advance one frame, and press the – button to go back one frame.

### NOTE

In jog mode, if you stop searching, playback will pause, but the sound at the current position will be output continuously.

## Playback modes

This unit has 4 playback modes.

The current playback mode is indicated on the display.

### ■ Continuous playback mode (default)

Nothing appears in the playback mode indication area at the top of the display.

The tracks on the disc are played back in numerical order.

### ■ Single playback mode

◻ appears in the playback mode indication area at the top of the display.

The selected track is played back once and then playback stops.

### ■ Program playback mode

PGM appears in the playback mode indication area at the top of the display.

Tracks are played back in the order programmed in advance. (See “Program playback” on page 28.)

### ■ Random playback mode

RANDOM appears in the playback mode indication area at the top of the display.

Tracks on the disc are played back in random order.

## Selecting the playback mode

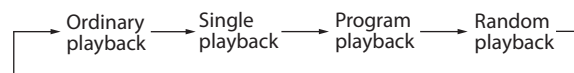
Use the following procedures to set the desired playback mode using the controls on the player or the included TASCAM RC-500 remote control.

### Using the front panel buttons:

Press the **PLAY MODE [REPEAT]** button to cycle through the playback modes.

### Using the remote control:

Press the **PLAY MODE** button to cycle through the playback modes.



### NOTE

Playback mode settings are retained even when the power is turned off.

# 6 – Various Playback Functions

This chapter explains the various playback functions of the unit.

## Auto-cue function

If the auto-cue function is on and you select a track to play, any silence at the beginning of the track will be skipped, and the player will pause at the instant when a sound signal is first detected. This means that sound can be heard immediately when playback starts.

### NOTE

- When the flash start function is used for playback, the auto-cue function is disabled.
- If the auto-cue function is on and a track is selected during playback, that track will play back from the instant that sound begins in the selected track. If the auto-cue function is on and a track is selected when paused, the player will pause at the instant that sound begins in the selected track.

Moreover, you can set the audio signal detection threshold level (auto-cue level) that is used by the auto-cue function. Any signal higher than the set auto cue level will be recognized as “sound,” and any signal lower than this level will be treated as “silence.”

The following procedure describes how to use the menu to turn the auto-cue function on/off and adjust the auto-cue level setting. (For details about using the menu screen, refer to the “Menu operation basics” on page 19.)

### ■ Turning the auto-cue function on/off

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **SEARCH ◀◀ [AUTO CUE]** button to turn it on/off. You can also do this by pressing the **SEARCH ◀◀ [AUTO CUE]** button while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the **A.CUE/DEL** button to turn it on/off.

When the auto-cue function is on, **A.CUE** appears in the lower part of the display.

### NOTE

The auto-cue function on/off setting is retained even when the power is turned off.

## Setting the auto-cue level

To set the auto-cue function trigger level (auto-cue level), use the **03 A-CUE** menu item.



Options: 24 (default value), 30, 36, 42, 48, 54, 60, 66, 72

These values represent auto-cue levels in dB. The point when the signal level of the selected track first exceeds the auto-cue level is recognized as the instant when sound starts.

### NOTE

The auto-cue level setting is retained even when the power is turned off.

## Auto-ready function

If auto-ready is on, after a track has finished playing, playback will pause at the beginning of the next track.

### NOTE

- If the auto-cue function is also on, playback will pause at the instant when sound starts rather than at the beginning of the track.
- When using the flash start function for playback, the auto-ready function is disabled.

### ■ Turning the auto-ready function on/off

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **SEARCH ▶▶ [AUTO READY]** button to turn it on/off. You can also do this by pressing **SEARCH ▶▶ [AUTO READY]** while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the **A.RDY/INS** button to turn it on/off.

When the auto-ready function is on, **A.RDY** appears in the lower part of the display.

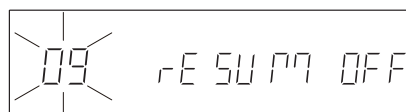
### NOTE

The auto-ready function on/off setting is retained even when the power is turned off.

## Resume function

When the resume function is on, the position where playback stops is memorized. When playback is started again playback resumes from that position. When this function is used with a data CD, however, playback resumes from the beginning of the track that was playing when playback was stopped.

To turn the resume function on/off, use the **09 RESUM** menu item (default value: OFF).



When the resume function is on, **RESUME** appears in the lower part of the display.

### NOTE

The resume function on/off setting is retained even when the power is turned off.

## Call function

During playback or when paused, press the **CALL [PLAY MODE]** button on the player or the **CALL** button on the remote to locate to the point when playback last started and pause playback. However, when this function is used with a data CD, playback pauses at the beginning of the track that was playing when playback was last started.

## Cue function

You can use the cue function to store in memory up to 20 time points on an audio CD to recall them when desired.

Press the **CUE** button on the front panel to use the cue function. When active, the **CUE** indicator lights.

### NOTE

- The cue function does not work with data CDs.
- When the cue indicator is lit, the number buttons on the unit and the remote control are used by the cue function and cannot be used to designate track numbers or to flash start tracks. To use these functions, push the **CUE** button to turn the **CUE** indicator off.
- Cue points are retained even when the power is turned off.

## Setting cue points

During playback or when paused, after putting the unit in shift mode (**SHIFT** indicator lit), press a number button on the unit or remote control to set a cue point at the current playback time. Press the **+10** button to use the buttons to set points 11–20 when the indicator is lit.

The indicators light for number buttons that have cue points set.

### NOTE

You can also set points by pressing a number button while pressing and holding the **SHIFT** button.

## Using cue points

When shift mode is disabled (**SHIFT** indicator unlit) and a cue point is assigned (number indicator lit), press the corresponding number button to jump to that cue point and pause.

If the **FLASH** indicator is lit, pressing a number button with a set cue point will start playback from that point immediately. (See "Flash start function" on page 30.)

## Clearing cue points

To clear a cue point, press the corresponding number button (indicator lit) while pressing the **CLEAR** button. After a cue point has been cleared the indicator will become unlit.

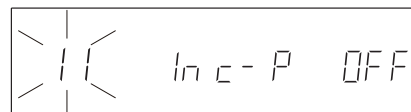
## Incremental play function

When the incremental play function is on, pressing the **▶ PLAY** button on the unit or the remote during playback will start playback from the beginning of the next track, and pressing the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote will pause playback at the beginning of the next track.

### NOTE

- When the incremental play function is on and playback is paused, pressing the **▶ PLAY** button on the unit or the remote will start playback from that point, and pressing the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote stops playback.
- During playback of the last track, if you press the **▶ PLAY** button on the unit or the remote, playback of the first track will start. If you press the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote, playback will pause at the beginning of the first track.
- Setting the control I/O parallel connector pin 2 (**PLAY IN**) or 3 (**STOP IN**) to **ON** has the same effect.
- Receiving a stop command from the control I/O parallel connector pin 8 (**FADER START/STOP**) has the same effect.

To turn the incremental play function on/off, use the **11 Inc-P** menu item (default value: **OFF**).



When the incremental play function is on, **INCR** appears in the lower part of the display.

### NOTE

The incremental play function on/off setting is retained even when the power is turned off.

## 6 – Various Playback Functions

### Repeat playback

You can repeatedly play back all tracks or repeatedly play back a specified region within a track (A-B repeat playback).

#### Ordinary repeat playback

When the repeat playback function is on, behavior depends on the playback mode.

- All track playback (ordinary playback) mode: the entire disc is played back repeatedly
- Single track playback mode: the current track is played back repeatedly
- Program playback mode: all the tracks in the program are played back repeatedly
- Random playback mode: all the tracks on the disc are played back at random repeatedly

Use one of the following procedures to turn the repeat playback function on.

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **PLAY MODE [REPEAT]** button. **REPEAT** appears at the top of the display when repeat mode is activated. You can also do this by pressing the **PLAY MODE [REPEAT]** button while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the remote **REPEAT** button. **REPEAT** appears at the top of the display when repeat mode is activated.

Use one of the following procedures to turn the repeat playback function off.

- When the player is in shift mode (**SHIFT** indicator lit), press the **PLAY MODE [REPEAT]** button again until **REPEAT** disappears from the top of the screen. You can also do this by pressing the **PLAY MODE [REPEAT]** button while pressing and holding the **SHIFT** button.
- Press the **REPEAT** button on the remote until **REPEAT** disappears from the top of the screen.

#### NOTE

*The repeat playback setting is retained even when the power is turned off.*

### A-B repeat playback

You can specify a desired interval (A-B) within a track to be played back repeatedly. Use the following procedures to enable A-B repeat playback.

- 1 During playback or when paused, when the player is in shift mode (**SHIFT** indicator lit), press and hold the **PLAY MODE [REPEAT]** button on the player, press and hold the **PLAY MODE [REPEAT]** button while pressing the **SHIFT** button, or press and hold the **REPEAT** button on the remote to activate A-B repeat mode. **REPEAT** will blink at the top of the display.
- 2 Press the **TRACK SKIP/DATA** knob on the player or the **REPEAT** button on the remote at the beginning of the interval that you want to repeat (A point). **A-B** will blink at the top of the display.
- 3 Once again, press the **TRACK SKIP/DATA** knob on the player or the **REPEAT** button on the remote at the end of the interval that you want to repeat (B point). Repeat playback between the A and B points will begin, and **A-B** will stop blinking and continue to appear at the top of the display.
- 4 To end A-B repeat playback, press the **STOP [INTRO CHECK]** button on the player or the **STOP** button on the remote.

#### NOTE

- A-B repeat playback cannot be used with a data CD.
- Once playback reaches the B point, playback will restart from the A point.
- A-B repeat playback across more than one track is not possible.

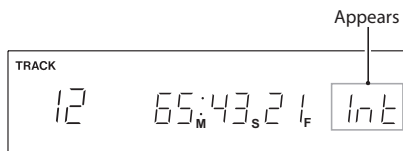
## Intro check mode

The Intro Check mode allows 10-second track beginnings to be played in succession. Use the following procedures to enable this mode.

### Using the front panel buttons:

- 1 When stopped and in shift mode (SHIFT indicator lit), press the **STOP [INTRO CHECK]** button. You can also do this by pressing the **STOP [INTRO CHECK]** button while pressing and holding the **SHIFT** button.

INT appears on the right side of the display.



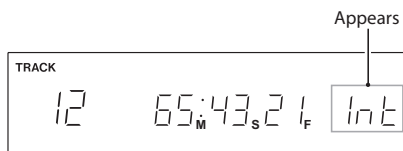
### NOTE

Intro check mode cannot be enabled together with single playback mode or random playback mode.

- 2 Press the **▶ [PLAY] [REPEAT]** button to activate the intro check mode starting from the next track.
- 3 Press the **■ STOP [INTRO CHECK]** button again to stop the play and disable intro check mode.

### Using the remote control:

- 1 When stopped or paused, press the remote **INTRO CHECK** button to enable intro check mode. INT appears on the right side of the display.



### NOTE

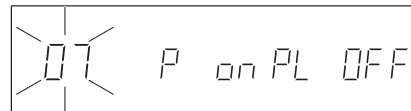
If you press the **INTRO CHECK** button on the remote control during playback, INT appears on the right side of the display and intro check starts immediately.

- 2 If stopped or paused, press the **▶ PLAY** button to start intro check.
- 3 Press the **■ STOP** button to stop playback and disable intro check mode.  
Press the **INTRO CHECK** button again to disable intro check mode and continue playback.

## Power on play function

By using a commercially-available external timer, you can make the player turn on at desired times and start playback.

- 1 First, connect the power of this unit so that it receives power from the timer.
- 2 Load the disc that you want played back.
- 3 Set the **07 P onPL** menu item to ON (default value: OFF).



- 4 Leave the **POWER** switch of this unit set to ON, turn the power off from the timer and set the timer to turn on at the desired time. At the set time, the timer should supply power to the player, turning it on, and playback should begin automatically.

### NOTE

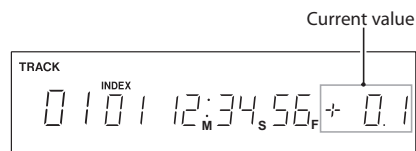
The power on play function on/off setting is retained even when the power is turned off.

## Pitch control playback

Using its pitch control playback function, this unit can vary the pitch (and speed) of playback.

Follow these procedures to use pitch control playback.

When this function is on, **PITCH** and the setting value appear in the **PITCH** display area on the right side of the display.



### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **JOG [PITCH]** button to turn the pitch control function ON. You can also do this by pressing the **JOG [PITCH]** button while pressing and holding the **SHIFT** button.

After pressing the **SHIFT** button, press the **MENU [PITCH %]** button to enter pitch setting mode and use the **TRACK SKIP/DATA** knob to adjust the setting in the range between -16% and +16%. The pitch setting value blinks while it is being set. You can also enter pitch setting mode by pressing the **MENU [PITCH%]** button while pressing and holding the **SHIFT** button.

After making the setting, press the **SHIFT** button and then the **MENU [PITCH%]** button to exit pitch setting mode. You can also exit pitch setting mode by pressing the **MENU [PITCH%]** button while pressing and holding the **SHIFT** button.

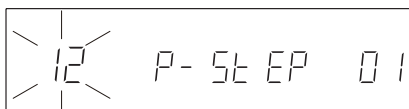
## 6 – Various Playback Functions

### Using the remote control:

Press the **PITCH** button to turn the pitch control function on. Use the **+** and **-** buttons to adjust the setting in the range between  $-16\%$  and  $+16\%$ .

### Setting the pitch adjustment increment

To set the adjustment increment for pitch control playback (pitch step) use the **12 P-STEP** menu item.



Options (%): 0.1 (default value), 0.5, 1.0

#### NOTE

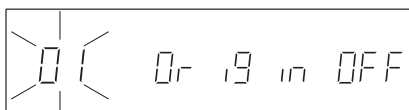
The pitch step setting is retained even when the power is turned off.

### Changing playback speed without changing pitch (KEY ORIG)

Ordinarily, when using the pitch control function, the speed changes along with the pitch. When the original key function is on, however, the pitch does not change even when the playback speed is changed.

Use one of the following procedures to turn the original key function on/off.

- Press the **KEY ORIG** button on the remote.
- Use the **01 Origin** menu item (default value: OFF).



When the original key function is on, **KEY ORIG** appears at the bottom of the display.

#### NOTE

The original key function on/off setting is retained even when the power is turned off.

### Program playback

By setting a program in advance, you can set the unit to play tracks in the order that you want. Up to 100 tracks can be added to the program. To use program playback to play tracks in the program order, set the playback mode to program playback mode and start playback. (See "Selecting the playback mode" on page 23.)

### Program setting mode

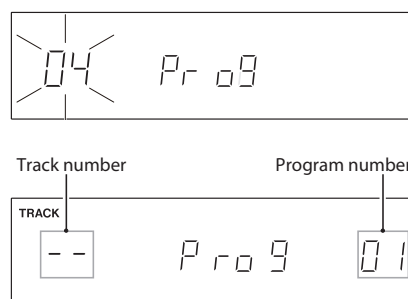
Use the following procedures to enter program setting mode and add tracks to the empty program.

#### NOTE

- You can add tracks to the program regardless of the current playback mode.
- You can add the same track to the program multiple times.
- The program setting is retained even when the power is turned off or the disc is ejected. The player can remember one program for up to 100 discs.

#### Using the front panel buttons:

- 1 When playback is stopped, select the **04 Prog** menu item, and press the **TRACK SKIP/DATA** knob to enter program setting mode. The display appears as follows.



- 2 Use the number buttons or **TRACK SKIP/DATA** knob to select the number of the track that you want to add at the currently displayed program number. The selected track number blinks.
- 3 Press the **SEARCH ►► [AUTO READY]** button to add the selected track. The next program number is shown.
- 4 Repeat steps 2 and 3 to add tracks as desired.

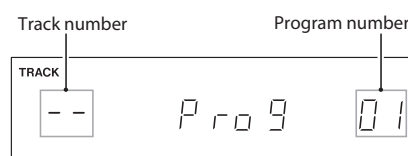
#### NOTE

After selecting a track, turning the **TRACK SKIP/DATA** knob to the right or pressing the **SEARCH ►► [AUTO READY]** button adds the track to the program. If you exit program setting mode without doing this, the track selected just before will not be added to the program.

- 5 When you are done adding tracks to the program, press the **TRACK SKIP/DATA** knob to exit program setting mode.

#### Using the remote control:

- 1 When stopped, press the **PGM** button to enter program setting mode. The display appears as follows.



- 2 Use the number buttons or SKIP I◀◀/▶▶I buttons to select the number of the track that you want to add at the currently displayed program number. The selected track number blinks.
- 3 Press the SEARCH ▶▶ button to add the selected track. The next program number is shown.
- 4 Repeat steps 2 and 3 to add tracks as desired.

#### NOTE

After selecting a track, pressing the SEARCH ▶▶ button adds the track to the program. If you exit program setting mode without doing this, the track selected just before will not be added to the program.

- 5 When you are done adding to the program, press the PGM button to exit the program setting mode.

## Checking the program

When playback is stopped, follow step 1 of “Program setting mode” above to enter program setting mode and then follow the procedures below.

#### Using the front panel buttons:

Use the SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons to select a program number to confirm the track that it contains. The track number is shown to the right of the program number.

#### Using the remote control:

Use the SEARCH ◀◀/▶▶ buttons to select a program number to confirm the track that it contains. The track number is shown to the right of the program number.

## Editing the program

You can change the contents of the program.

When playback is stopped, follow step 1 of “Program setting mode” above to enter program setting mode and then follow the procedures below.

### ■ Changing program tracks

#### Using the front panel buttons:

- 1 Use the SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons to select the program number that you want to change.
- 2 Use the number buttons or TRACK SKIP/DATA knob to select the desired track.
- 3 Press the SEARCH ▶▶ [AUTO READY] button to confirm the change.

#### Using the remote control:

- 1 Use the SEARCH ◀◀/▶▶ buttons to select the program number that you want to change.
- 2 Use the number buttons or SKIP I◀◀/▶▶I buttons to select the desired track.
- 3 Press the SEARCH ▶▶ button to confirm the change.

### ■ Inserting tracks into the program

#### Using the front panel buttons:

- 1 Use the SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons to select the program number where you want to insert a track.
- 2 Press the SEARCH ▶▶ [AUTO READY] button while pressing and holding the SHIFT button.
- 3 Use the number buttons or the TRACK SKIP/DATA knob to select the track that you want to insert.
- 4 Press the SEARCH ▶▶ [AUTO READY] button to insert the track.

#### Using the remote control:

- 1 Use the SEARCH ◀◀/▶▶ buttons to select the program number where you want to insert a track.
- 2 Press the A.RDY/INS button.
- 3 Use the number buttons or SKIP I◀◀/▶▶I buttons to select the track that you want to insert.
- 4 Press the SEARCH ▶▶ button to insert the track.

### ■ Removing tracks from the program

#### Using the front panel buttons:

- 1 Use the SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons to select the program number of the track that you want to delete.
- 2 Press the SEARCH ◀◀ [AUTO CUE] button while pressing and holding the SHIFT button to remove the track from the program.

#### Using the remote control:

- 1 Use the SEARCH ◀◀/▶▶ buttons to select the program number of the track that you want to delete.
- 2 Press the A.CUE/DEL button to delete the track from the program.

### ■ After editing the program

Press the remote PGM button or the TRACK SKIP/DATA knob on the player to exit program setting mode.

### ■ Removing all tracks from the program

When in program setting mode, press and hold the CLEAR button on the player or the remote CLEAR button to remove all tracks from the program.

## 6 – Various Playback Functions

### Fade in/fade out playback

The player can be set to fade in at the beginning of playback and fade out when playback is stopped or paused. The fade in and fade out times, which determine how many seconds fading in and fading out takes, can be set independently. Use the 05 FADE menu item to make fade in and fade out settings. The use of this menu item differs slightly from the others. Use the following procedures with this item.

- 1 Select the 05 FADE menu item.



Press the TRACK SKIP/DATA knob to enter fade in/out setting mode. The screen appears as follows.



- 2 Press the TRACK SKIP/DATA knob or the remote ENTER button to enter fade in setting mode.



- 3 Turn the TRACK SKIP/DATA knob on the player or use the PREV and NEXT buttons on the remote to set the fade in time. The fade in time can be set between 0.5 and 10 seconds in 0.5-second increments (default value: OFF).
- 4 Press the TRACK SKIP/DATA knob on the player or the ENTER button on the remote to confirm the fade in setting and enter fade out setting mode.



- 5 Turn the TRACK SKIP/DATA knob on the player or use the PREV and NEXT buttons on the remote to set the fade out time. The fade out time can be set between 0.5 and 10 seconds in 0.5-second increments (default value: OFF).
- 6 Press the TRACK SKIP/DATA knob on the player or the ENTER button on the remote to confirm the fade out setting and exit menu mode.

The display returns to its usual appearance.

#### NOTE

- FADE appears at the bottom of the display whenever fade in or fade out is set.
- To set only the fade out time, in fade in/out setting mode step 1 above, turn the TRACK SKIP/DATA knob on the player (or press the PREV or NEXT button on the remote) until OUT blinks. Then, press the TRACK SKIP/DATA knob

on the player (or the ENTER button on the remote) to enter fade out setting mode.

- To set only the fade in time, after step 4 above, press the MENU button on the unit or on the remote to complete the setting.
- The fade in/out function settings are retained even when the power is turned off.

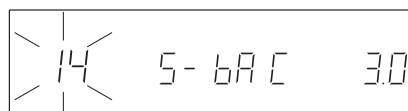
### Skip back playback

During playback, you can skip back by a preset amount of time and continue playback.

During playback, press the ► [PLAY] button on the unit or the remote control.

### Setting the skip back time

To set the skip back time, use the 14 S-BAC menu item.



Options: 0–60 seconds (0.5-second increments, default value: 3 seconds)

#### NOTE

- When the incremental play function is on, it receives priority and skip back playback is disabled when you press the ► PLAY button on the remote. Turn the incremental play function off if you want to use this function.
- Skip back playback is only possible with audio CDs. Skip back playback is not possible with data CDs.
- Skip back playback settings are retained even when the power is turned off.

### Flash start function

Up to twenty track beginnings or cue points can be pre-loaded into memory, enabling their playback to be triggered instantly.

#### ■ Flash-loading tracks:

When tracks have been added to the program and the unit is in playback mode or program playback mode, the beginnings of the first 20 tracks in the program will be loaded into memory.

When no tracks have been added to the program, the beginnings of the first 20 tracks on the disc will be loaded into memory.

## Flash-loading cue points:

Set cue points are loaded into memory.

### NOTE

- The flash start function is only possible with audio CDs. The flash start function is not possible with data CDs.
- When playing back using the flash start function, the auto-cue and auto-ready functions are disabled.

### Using the front panel buttons:

- 1 To use a program to flash start tracks, program the tracks in advance and set the playback mode to program playback. To flash start using cue points, set the cue points in advance and turn the cue mode ON (CUE indicator appears).
- 2 Press the **FLASH** button.
- 3 While the beginnings of the tracks or cue points are being loaded into memory, the word **FLASH** blinks on the display. After loading completes, **FLASH 01-10** appears on the display, the **FLASH** indicator lights and the **▶ PLAY** indicator blinks.
- 4 Press the number button for the program number (when program set), track number (when program not set) or cue number (for cue point flash start) that you want to play.

To select numbers between 11 and 20, press the **+10** button, so that **FLASH 11-20** appears on the display, and then press the corresponding number button. Press the **+10** button again to return to **FLASH 1-10**.

### Using the remote control:

- 1 To use a program to flash start tracks, program the tracks in advance and set the playback mode to program playback. To flash start using cue points, set the cue points in advance and turn the cue mode ON (CUE indicator appears).
- 2 Press the **FLASH** button.
- 3 While the beginnings of the tracks are being loaded into memory, the word **FLASH** blinks on the display. After loading completes, **FLASH 01-10** appears on the display, the **FLASH** indicator lights and the **▶ PLAY** indicator blinks.
- 4 Press the number button for the program number (when program set), track number (when program not set) or cue number (for cue point flash start) that you want to play.

To select numbers between 11 and 20, press the **CLEAR** button, so that **FLASH 11-20** appears on the display, and then press the corresponding number button. Press the **CLEAR** button again to return to **FLASH 1-10**.

## Exiting flash start mode

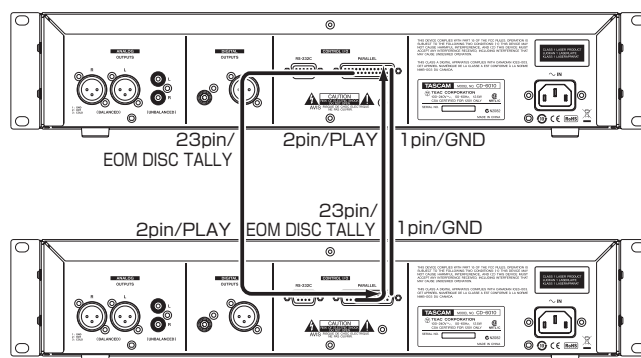
Press the **FLASH** button on the unit or the remote control. The **FLASH** indicator will become unlit.

## Relay playback

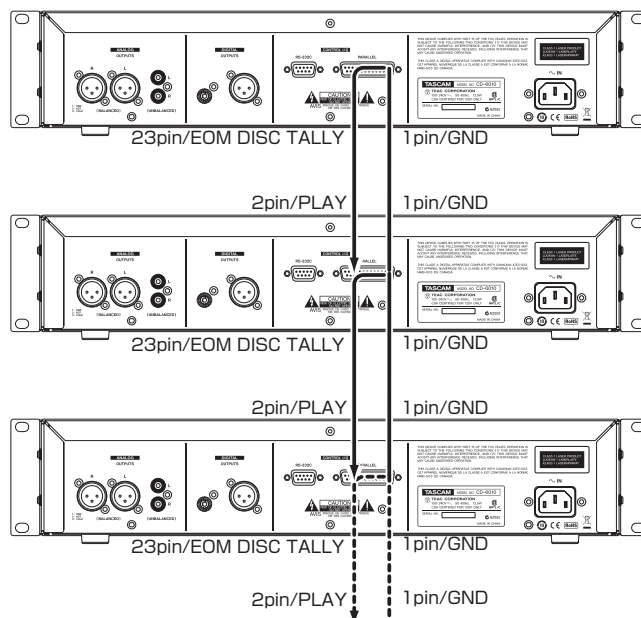
Multiple CD-6010 units can be used together and set so that when playback ends on one unit, playback can automatically start on another unit.

To do this, connect the **CONTROL I/O PARALLEL** connector "23 EOM DISC TALLY" pin on the rear panel of one unit to the **CONTROL I/O PARALLEL** connector "2 PLAY" pin on another unit with a cable and set **DISC EOM** to 0 on both units. (See "End of disc warning (DISC EOM)" on page 32.)

By connecting two CD-6010 units in both directions as shown in illustration below, alternating playback between them is possible.



By connecting three or more CD-6010 units in sequence (**CONTROL I/O PARALLEL** "2 PLAY" to **CONTROL I/O PARALLEL** "EOM DISC TALLY") as shown below, automatic playback of one unit after the other is possible.



## 7 – Other Functions

### Changing the playback time display mode

You can select the playback time that is shown on the display.

During playback or when paused, press the **DISPLAY [LOCK]** button on the player or the **DISPLAY** button on the remote. Each press of the button cycles through the three types of time display. The currently selected display mode is shown in the playback time mode display area.

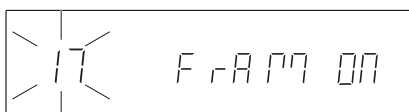
- **T.REMAIN:** total remaining time is displayed
- **REMAIN:** remaining time of the current track is displayed
- Nothing: elapsed time of the current track is displayed

#### NOTE

- When an audio CD is stopped, the total recording time is always shown regardless of whether or not **T.REMAIN** or **REMAIN** appears.
- For data CDs, neither the total time when stopped, nor the remaining time or total remaining time during playback are shown. (Only the number of tracks or track number appears.)
- In program playback mode, remaining time shows the time until playback of the program ends. In single playback mode, remaining time shows the remaining time in the track.
- In program playback mode, the total time shown is for the program.
- The playback time display mode setting is retained even when the power is turned off.

### Frame time display setting

You can set whether or not the frame time is shown during playback. To set the frame time display, use the **17 FRAM** menu item (default value: ON).



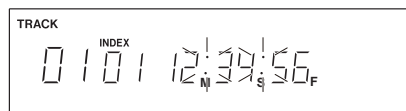
#### NOTE

The frame time display on/off setting is retained even when the power is turned off.

### End of track warning (TRACK EOM)

When nearing the end of a track, an end of track warning indication can be shown on the display and a "21 EOM TRACK TALLY" signal can be output from the **CONTROL I/O PARALLEL** connector. With data CDs, an end of track warning will not appear on the display. The **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal will be output as a pulse when the file playback ends.

By setting in advance the number of seconds before the track end that the warning is shown, when playback reaches that point, the ":" in the time display will begin blinking. At the same time the **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal will be output.



Use the **10 EOM\_T** menu item to set the value from among the following options.



Options: OFF, 0, 5, 10, 15, 20, 25, 30 (default value), 35

For values other than OFF, the number indicates the number of seconds before the end of the track that the warning begins. However, when set to 0, no warning will be shown on the display when track playback ends, but a "21 EOM TRACK TALLY" signal will be output from the **CONTROL I/O PARALLEL** connector as a pulse.

At the default value, 30 seconds before the end of the track, the ":" begins to blink and the **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal is output

#### NOTE

The TRACK EOM function setting is retained even when the power is turned off.

### End of disc warning (Disc EOM)

You can set the unit to output a "23 EOM DISC TALLY" signal from the **CONTROL I/O PARALLEL** connector when nearing the end of a disc a few seconds before it ends.

Use the **06 EOM\_D** menu item to set the time of the EOM function.

Options: OFF, 0, 5, 10, 15, 20, 25, 30 (default value), 35

For values other than OFF, the number indicates the number of seconds before the end of the disc that the warning begins. When set to 0, a "23 EOM DISC TALLY" signal will be output from the **CONTROL I/O PARALLEL** connector as a pulse when disc playback stops.

#### NOTE

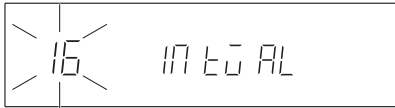
The DISC EOM function setting is retained even when the power is turned off.

## Interval time setting

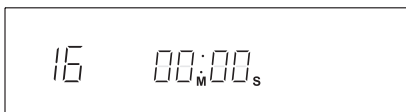
The player can be set to wait for a specified time (interval time) after completing playback of one track before starting playback of the next track.

To make the interval time setting, use the 16 INTVAL menu item.

- 1 Select the 16 INTVAL menu item.



- 2 Press the TRACK SKIP/DATA knob to enter interval time setting mode. The screen appears as follows.



- 3 Turn the TRACK SKIP/DATA knob to set the interval time, and press the TRACK SKIP/DATA knob to confirm the setting.

Setting range: 0–5 minutes (10-second increments, default value: 0 seconds)

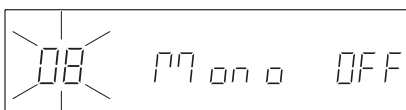
### NOTE

The interval time setting is retained even when the power is turned off.

## Outputting in mono

This player can output analog and digital signals in mono.

To make the player output in mono, set the 08 Mono menu item to ON (default value: OFF).



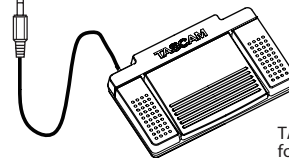
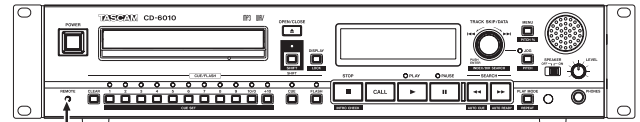
When mono output is on, MONO appears at the bottom of the display.

### NOTE

The mono output on/off setting is retained even when the power is turned off.

## Controlling the player with a footswitch

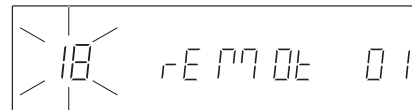
You can connect a TASCAM RC-3F footswitch (sold separately) to the REMOTE jack on the front panel and use it to control the player.



TASCAM RC-3F foot switch (sold separately)

## Setting the footswitch

To set the footswitch, use the 18 REMOT menu item to assign the functions to the switch controls (pedals).



Options: OFF, 1 (default value), 2, 3, 4

## Using the footswitch

When you press the controls (pedals) on the footswitch, they function according to the 18 REMOT setting.

## Footswitch mode settings

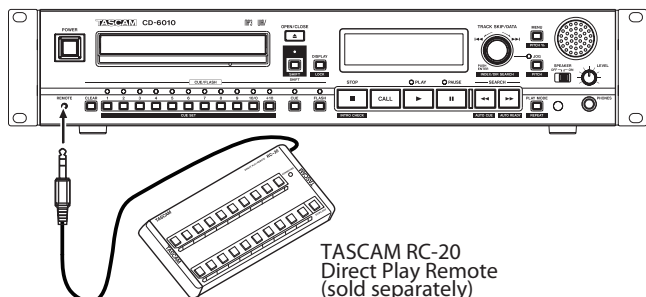
The functions of the controls in each mode are as follows.

MODE	Footswitch controls		
	L (brief press)	C (brief press)	R (brief press)
	L (long press)	C (long press)	R (long press)
1	⏮	PLAY/PAUSE	⏭
	⏪	STOP	⏩
2	SKIP BACK	PLAY/PAUSE	CALL
	⏪	STOP	⏩
3	PITCH (-)	PLAY/PAUSE	PITCH (+)
	PITCH (-) continuous	STOP	PITCH (+) continuous
4	PAUSE	PLAY	STOP
	---	---	---

## 7 – Other Functions

### Controlling the player with a direct playback remote

You can connect a TASCAM RC-20 direct play remote (sold separately) to the REMOTE jack on the front panel to use the unit's direct playback function.

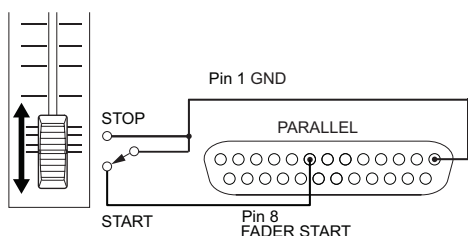


### Fader and event start

#### Fader start and stop

By connecting an external fader switch to the **CONTROL I/O PARALLEL** connector, the player can be started and stopped using a fader.

Connect the fader switch to the **CONTROL I/O PARALLEL** connector as shown below.



For details about using the **CONTROL I/O PARALLEL** connector, see "Using the parallel connector" on page 35.

#### Event start

When stopped or paused, playback can be started by inputting a one-shot pulse signal from outside. Input a one-shot pulse (active low, 30 ms or longer) through the "2 PLAY" pin of the **CONTROL I/O PARALLEL** connector.

### Using the RS-232C connector

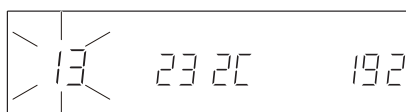
The **CONTROL I/O RS-232C** connector (D-sub 9-pin, RS-232C compliant) can be used for serial control of this unit by a computer or other external device.

#### Setting the baud rate

Use the 13 232C menu item to set the baud rate.

Select 96 (9600 bps, default value), 192 (19200 bps) or 384 (38400 bps).

For further details, please contact TASCAM customer support.



#### NOTE

The baud rate setting is retained even when the power is turned off.

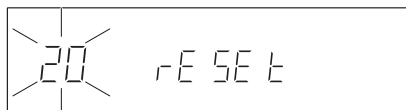
### Restoring factory default settings

You can restore the unit to factory default settings that are stored in the backup memory. The following default settings are stored in the backup memory

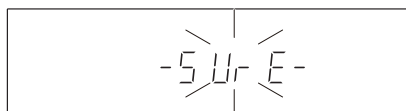
- Playback mode
- Playback time display mode
- Auto-ready function on/off
- Auto-cue function on/off
- Repeat function on/off
- Various menu settings (See "Menu structure" on page 19.)

#### To restore all settings to their factory defaults

- 1 Select the 20 RESET menu item.



- 2 Press the TRACK SKIP/DATA knob.  
-SURE- blinks on the display.



- 3 Press the TRACK SKIP/DATA knob on the main unit or the ENTER button on the remote control to restore the settings to the factory defaults stored in the backup memory and exit menu mode.

The display returns to ordinary disc and track information.

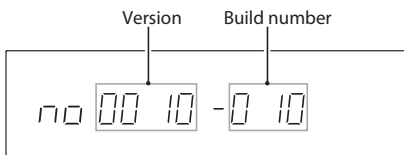
## Checking the firmware version

To check the firmware version, use the 21 INFO menu item.

- 1 Select the 21 INFO menu item.



- 2 Press the TRACK SKIP/DATA knob on the main unit or the ENTER button on the remote control to show the system firmware version on the display.

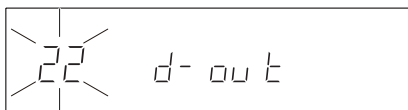


- 3 Press the TRACK SKIP/DATA knob on the main unit or the ENTER button on the remote control again to return to menu item selection.

## Digital output format setting

You can set the format of the digital signal output from the COAXIAL and XLR DIGITAL OUTPUTS. You can set the output format using the 22 D-OUT menu item. The digital signal output format options are as follows (default value: AES).

- SPD S/PDIF (consumer)
- AES AES/EBU with U bit (professional)
- AE\_ AES/EBU without U bit (professional)



### NOTE

The digital output format setting is retained even when the power is turned off.

## Analog output attenuation

You can set the unit so that the analog output level is attenuated by -4 dB. Set this appropriately for the equipment connected to the outputs.

Use the 19 ATT menu item to set whether or not -4dB attenuation is used or not (default value: OFF).

### NOTE

The attenuation setting is retained even when the power is turned off.

## Using the parallel connector

Using the CONTROL I/O PARALLEL connector, you can use external parallel control to operate this unit.

Pin No.	Function (Pin 14 = H or Open)	Function (Pin 14 = L)	IN/OUT
1	GND	GND	-
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX/DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [▶▶]	FLASH 4	In
6	TRACK SKIP REV [◀◀]	FLASH 5	In
7	INDEX/DIR SEARCH REV	STOP/LOAD	In
8	FADER START/STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT*	REMOTE SELECT*	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [▶▶]	FLASH 8	In
18	SEARCH REV [◀◀]	FLASH 9	In
19	(Reserved)	FLASH 10	In
20	(Reserved)	FLASH PAGE**	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved, fixed high)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved, fixed low)	Out
25	+5V*	+5V*	-

IN: external command reception (operates active low, when ground 30 ms or longer)

OUT: transport status display signal by open drain (20V maximum voltage, 35mA maximum current, 10Ω impedance)

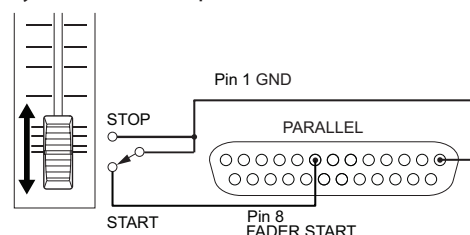
\*When pin 14 (REMOTE SELECT) is high or open, the functions in the left column are active and ordinary parallel control can be used. When set to low, the functions in the right column are active and they can be used as flash start keys.

\*\*When pin 14 (REMOTE SELECT) is low, the high/low status of pin 20 (FLASH PAGE) determines the track assignments as shown below.

\*\*\*100mA maximum supplied current

#14	#20	Flash start tracks
Low	High	1-10
Low	Low	11-20

The following connection example shows playback control by fader start/stop.



# 8 – Troubleshooting

Please check the following items if the unit is not functioning properly. If you are still unable to resolve the problem please contact the retailer where you purchased the unit or TASCAM customer support.

## ■ Power does not turn on

Make sure that the power plug is firmly inserted.

## ■ Unit cannot be controlled from the front panel

Make sure that the panel lock function is not on.

## ■ Unit cannot be controlled with the remote control.

Confirm that batteries are in the remote control and that they have a charge.

## ■ No sound

Confirm the unit's connections to the monitoring system and check the volume of the amplifier.

## ■ CD cannot be played back

- If it is a data CD, containing MP3 files, confirm that they use a bit rate that this unit can handle.
- Confirm that the disc is not scratched or dirty.

## ■ Noise is heard

Check whether a connection cable might have a bad connection.

## 9 – Error Messages

When one of the following error messages appears, refer to the response below and resolve the cause. If you are still unable to resolve the problem please contact TASCAM customer support.

Message	Meaning	Response
Err01	TOC Read Error	Clean or change the disc.
Err09	Flash ROM Error	If one of these errors appears, turn the power off and back on. If you are unable to turn the power off, disconnect the power cord.
Err10	SDRAM Error	
Err13	SYSTEM Error	

# 10 – Specifications

---

## Media and formats

---

### Device type

CD player

### Compatible discs

Compact discs (12cm/8cm, including CD-R discs)

### Playable disc types

CD-A, CD-ROM (ISO9660 LEVEL 1/2/JOLIET format)

### Playable file formats

Audio CD (CD-DA), MP3 (MPEG Audio Layer III), WAV

### MP3 playback specifications

Audio Modes: stereo/mono

Sampling Frequency: 32 kHz/44.1 kHz/48 kHz

Bit Rate: 32 kbps–320 kbps and VBR

### WAV playback specifications

Sampling Frequency: 32 kHz/44.1 kHz/48 kHz

Sampling Bit Rate: 16 bit

### Audio CD playback specifications

Sampling Frequency: 44.1 kHz

Sampling Bit Rate: 16 bit

Number of Channels: 2

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## Analog audio output

---

### Analog outputs (unbalanced)

Connector: RCA pin jacks

Output impedance: 200  $\Omega$

Standard output level: –10 dBV (0.32 Vrms)

Maximum output level: +6 dBV (2.0 Vrms)

### Analog outputs (balanced)

Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)

Output impedance: 100  $\Omega$

Standard Output level: +4 dBu (1.23 Vrms)

Maximum Output level: +24 dBu (12.28 Vrms)

### PHONES connector

Connector: 6.3mm (1/4") standard stereo jack

Maximum output level: 45 mW + 45 mW or more  
(THD+N 0.1% or less, 32 $\Omega$  load)

---

## Digital audio output

---

### Digital output connector (COAXIAL)

Connector: RCA pin jack

Supported signal formats: IEC 60958-3 standard for consumer use, IEC 60958-4 for professional use

Output impedance: 75  $\Omega$

Output level: 0.5 Vp-p

### Digital output connector (XLR)

Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)

Supported signal formats: IEC 60958-3 standard for consumer use, IEC 60958-4 for professional use

Output impedance: 110  $\Omega$

---

## Control input and output

---

### REMOTE connector

Connector: 2.5mm TRS jack

### RS-232C connector

Connector: D-sub 9-pin (female, inch standard)

### CONTROL I/O PARALLEL connector

Connector: D-sub 25-pin (female, inch standard)

---

## Audio performance

---

### Frequency response

20 Hz–20 kHz:  $\pm 0.5$  dB (JEITA)

### S/N ratio

95 dB or more (JEITA)

### Dynamic range

95 dB or more (JEITA)

### Distortion

0.005% or less (JEITA)

### Channel separation

95 dB or more (1 kHz, JEITA)

## Backup memory

The following settings are backed up even when the power is turned off.

- Playback mode
- Playback time display mode
- Auto-ready function on/off
- Auto-cue function on/off
- Cue settings
- Repeat function on/off
- Various menu settings

## General

### Power supply

AC 100-240 V, 50-60 Hz

### Power consumption

12.5 W

### Dimensions (W x H x D)

483 x 94 x 306 mm

### Weight

4.9 kg

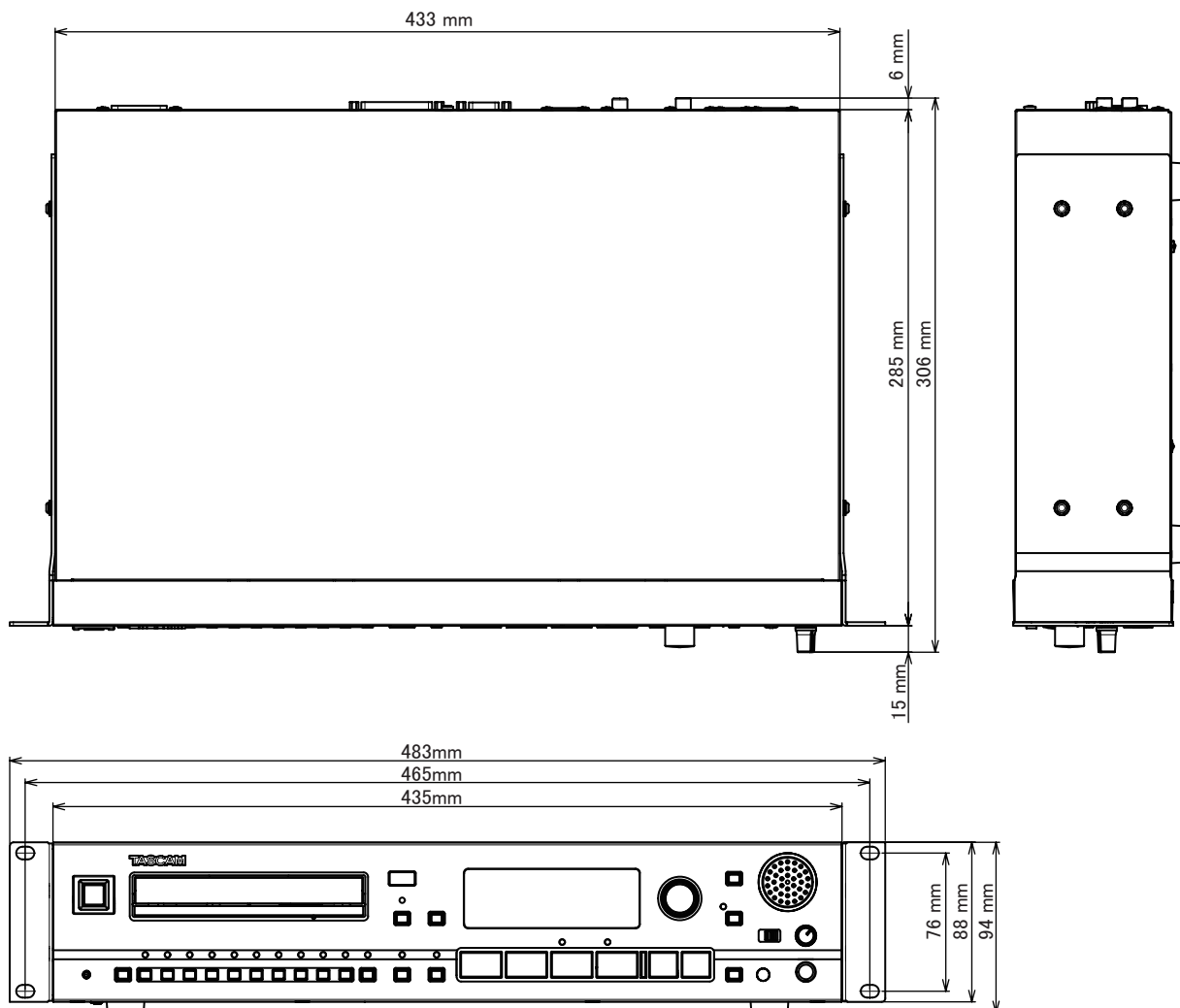
### Operating temperature range

5°–35° C

### Installation angle

15° or less

## Dimensional drawings



- Illustrations in this manual might differ from the actual product.
- In order to improve the product, specifications and appearance could be changed without prior notice.

# TASCAM

# CD-6010

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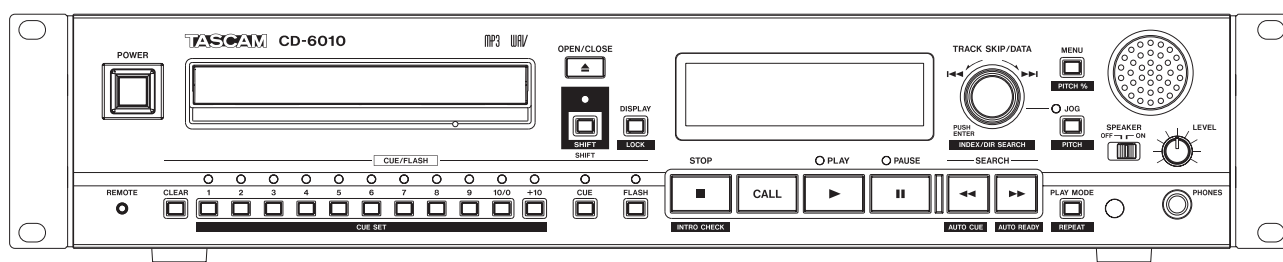
# TASCAM

D01168520B



# CD-6010

## CD Player

### OWNER'S MANUAL



# IMPORTANT SAFETY INSTRUCTIONSv

 <b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN 
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.

- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



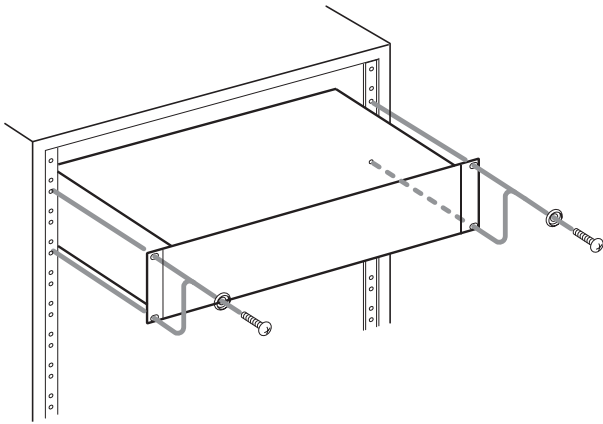
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this apparatus to drips or splashes.
  - Do not place any objects filled with liquids, such as vases, on the apparatus.
  - Do not install this apparatus in a confined space such as a book case or similar unit.
  - The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
  - The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
  - The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
  - Products with Class I construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.
  - If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
  - CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
  - Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

In North America use only on 120V supply.

## ■ RACK-MOUNTING THE UNIT

Use the supplied rack-mounting kit to mount the unit in a standard 19-inch rack, as shown below.

Remove the feet of the unit before mounting.



### NOTE

- Leave 1U of space above the unit for ventilation.
- Allow at least 10 cm (4 in) at the rear of the unit for ventilation.

## ■ For U.S.A.

### TO THE USER

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

## ■ For European Customers

### CE Marking Information

- a) Applicable electromagnetic environment: E4
- b) Peak inrush current: 14 A

### Disposal of electrical and electronic equipment

- (a) All electrical and electronic equipment should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
- (b) By disposing of electrical and electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.

- (c) Improper disposal of waste electrical and electronic equipment can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.
- (d) The Waste Electrical and Electronic Equipment (WEEE) symbol, which shows a wheeled bin that has been crossed out, indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.



- (e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.

### Disposal of batteries and/or accumulators

- (a) Waste batteries and/or accumulators should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
- (b) By disposing of waste batteries and/or accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
- (c) Improper disposal of waste batteries and/or accumulators can have serious effects on the environment and human health because of the presence of hazardous substances in them.
- (d) The WEEE symbol, which shows a wheeled bin that has been crossed out, indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.



If a battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) as defined in the Battery Directive (2006/66/EC), then the chemical symbols for those elements will be indicated beneath the WEEE symbol.

- (e) Return and collection systems are available to end users. For more detailed information about the disposal of waste batteries and/or accumulators, please contact your city office, waste disposal service or the shop where you purchased them.

### WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

# Safety Information

## ■ CAUTIONS ABOUT BATTERIES

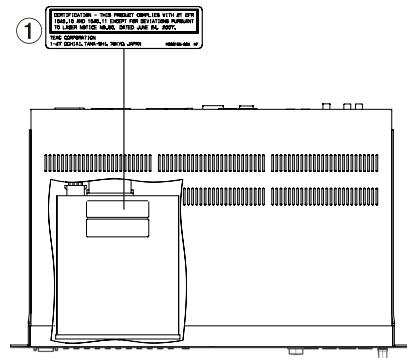
This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/-) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

## ■ CAUTIONS ABOUT LASER RADIATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.



### Cautions:

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.

### Optical pickup

Type	: HOF-1501XB
Manufacturer	: Hitachi Media Electronics
Laser output	: Less than 0.5 mW on the objective lens
Wavelength	: 785 nm ±22nm
Standard	: IEC60825-1 : 2007

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number

\_\_\_\_\_

Serial number

\_\_\_\_\_

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## For China

### 产品有毒有害物质或元素的名称及含量

机种：CD-6010		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	PCB Assy部份	×	○	○	○	○	○
3	线材部份	○	○	○	○	○	○
4	附属品部份	×	○	○	○	○	○
7	SEAL部份	○	○	○	○	○	○
8	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

(针对现在代替技术困难的电子部品及合金中的铅)

Thank you very much for purchasing the TASCAM CD-6010 CD Player.

Before connecting and using the unit, please take time to read this manual thoroughly to ensure you understand how to properly set up and connect the unit, as well as the operation of its many useful and convenient functions. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download the Owner's Manual from the TASCAM web site (<http://tascam.com/>).

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## Features

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- Anti-shock memory prevents skipping caused by vibrations, for example
- $\pm 16\%$  pitch control
- Plays ordinary audio CDs and CD-R discs, including files in both MP3 and WAV formats
- Cueing with one-frame precision
- Parallel control connector
- When using the parallel connector, the transport mode, including fader start and event start, as well as flash start and direct start modes can be set
- RS-232C serial connector can be used to connect a computer or external controller to control the unit
- Memory can store program and cue point information for up to 100 discs
- Incremental play function
- Auto-ready function can automatically pause playback after track completes playing at the beginning of the next track
- Auto-cue function can ready the unit to start playback of a track from the moment sound starts
- Transport and pitch can be controlled using a TASCAM RC-3F footswitch (sold separately)
- Supports direct start and flash start using RC-SS20 (parallel connector) and RC-20 (remote connector) units (sold separately)
- Flash start function enables playback without delay (up to 20 tracks: tracks 1–20, the first 20 tracks in the program or the first 20 cue points)
- Number buttons on the front panel can be used for track selection, cue point recall and flash start operation
- Skip back function can go back a few seconds (amount can be set) during playback
- TASCAM RC-500 wireless remote control included (can be disabled using a setting on the main unit)
- Gap between tracks during playback can be set
- Balanced output level can be set by making an internal adjustment (please contact customer support)
- Analog output attenuation function
- Panel buttons can be locked to prevent misoperation

- Tray lock function can be used to prevent the tray from being opened during playback or when paused
- High-performance tray-loading CD drive
- RCA unbalanced outputs
- Coaxial digital output
- XLR balanced outputs
- XLR digital output
- Monophonic output possible
- Playback modes include all tracks (ALL), one track (SINGLE), program (up to 100 tracks) and random
- Repeat function for all playback modes and A-B interval looping
- Display can be set to show track elapsed time, track remaining time or disc remaining time
- CALL function can be used to return to the last point where playback started
- Intro check function
- Fade in and fade out can be set from 0 to 10 seconds in 0.5-second intervals
- Automatic playback when power turned on possible
- Relay playback of multiple units possible
- Index search (audio CD (CD-DA) only) and directory search (MP3 or WAV file discs only) functions
- Resume function remembers the last point when playback stopped
- Support for EOM display showing the end of a track
- Monitoring features on the front panel include a headphones jack, a speaker with an ON/OFF switch and a level knob

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## Included items

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The included items are listed below.

Take care when opening the package not to damage the items. Keep the package materials for transportation in the future.

Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

- Main unit..... 1
- Power cord ..... 1
- Wireless remote control (TASCAM RC-500) ..... 1
- AAA batteries for the remote control unit..... 2
- A rack-mounting screw kit..... 1
- A warranty card ..... 1
- Owner's manual (this manual) ..... 1

# 1 – Introduction

## About this manual

In this manual, we use the following conventions:

- The names of buttons and controls are given in the following typeface: **SHIFT**.
- Messages on the unit's display are shown like this: **ON**
- The CD-DA format may also be mentioned as "audio CD" format.
- CDs on which MP3 or WAV audio files are recorded may be mentioned as "data CDs".
- Additional information is introduced in the styles below when needed:

### NOTE

*Explanation of actions in special situation and supplement.*

### CAUTION

*Instructions that should be followed to avoid injury, damage to the unit or other equipment, and loss of data.*

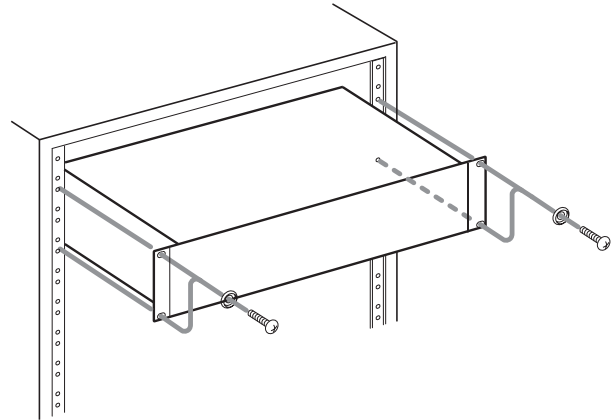
## Trademarks

- TASCAM is a trademark of TEAC Corporation, registered in the U.S. and other countries.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

## Precautions for placement and use

- The operating temperature should be between 5°C and 35°C (41°F and 95°F).
- Do not install in the following types of places. Doing so could degrade the sound quality and/or cause malfunctions.
  - Places with significant vibrations or that are otherwise unstable
  - Near windows or other places exposed to direct sunlight
  - Near heaters or other extremely hot places
  - Extremely cold places
  - Places with bad ventilation or high humidity
  - Very dusty locations

- This unit can be installed at an angle of  $\pm 15^\circ$ .
- Do not place any object on the unit for heat dissipation.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.
- To mount this unit in a rack, use the included rack mounting screw kit to mount it as shown below. Leave at least 1 U (5 cm) of open space above the unit.



## Connecting the power

- Insert the included power cord into the **AC IN** connector completely.
- Hold the power cord by the plug when connecting or disconnecting it.

## Beware of condensation

If the unit is moved from a cold to a warm place, or used immediately after a cold room has been heated or otherwise exposed to a sudden temperature change, condensation could occur. Should this happen, leave the unit for one or two hours before turning the unit on.

## Cleaning the unit

To clean the unit, wipe it gently with a soft dry cloth. Do not wipe with chemical cleaning cloths, benzene, paint thinner, ethyl alcohol or other chemical agents to clean the unit as they could damage the surface.

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## About discs

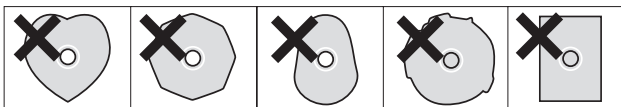
---

In addition to commercially-available music CDs, this unit can play CD-R discs that have been recorded in audio CD (CD-DA) format, as well as CD-R discs that have MP3 audio and WAV audio files recorded on them.

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## Handling of compact discs

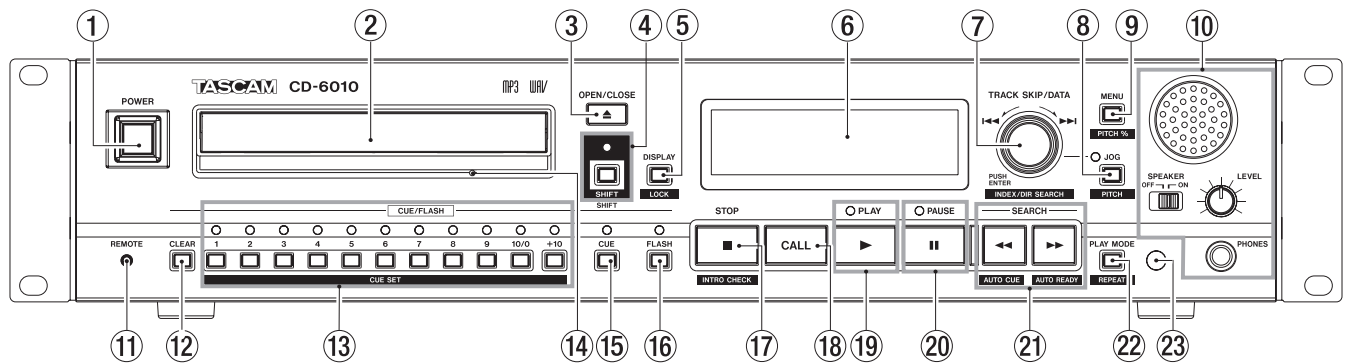
- Always insert the compact discs in the slot with their label facing upward.
- To remove a disc from its case, press down on the center of the disc holder, then lift the disc out, holding it carefully by the edges.
- Do not touch the signal side (the unlabeled side). Fingerprints, oils and other substances can cause errors during playback.
- To clean the signal side of a disc, wipe gently with a soft dry cloth from the center towards the outside edge. Dirt on discs can lower the sound quality, so clean them and always store them in a clean state.
- Do not use any record spray, anti-static solutions, benzene, paint thinner or other chemical agents to clean CDs as they could damage the delicate playing surface. It may cause CDs to become unplayable.
- Do not apply labels or other materials to discs. Do not use discs that have had tape, stickers or other materials applied to their surface. Do not use discs that have sticky residue from stickers, etc. Such discs could become stuck in the unit or cause it to malfunction.
- Never use a commercially available CD stabilizer. Using stabilizers with this player will damage the mechanism and cause it to malfunction.
- Do not use cracked discs.
- Only use circular compact discs. Avoid using non-circular promotional discs, etc.



- Music discs with copy control, a copy-protection system, have been released from several record companies in an attempt to protect the copyright. Since some of these discs do not comply with the CD specifications, they may not be playable on the unit.

## 2 – Names and Functions of Parts

### Front panel



#### ① POWER switch

Press to turn the power on and off.

#### CAUTION

Before turning the power on, minimize the volume of other equipment that is connected to this unit. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

#### ② Disc tray

Press the **OPEN/CLOSE** button to open the disc tray when you want to load or remove a disc. To close the disc tray, press the **OPEN/CLOSE** button again.

#### ③ OPEN/CLOSE button

Press to open and close the disc tray.

#### ④ SHIFT button and indicator

Press this button to activate shift mode. When the shift mode is active, the indicator lights and the shift functions of other buttons are enabled. (Shift functions are shown below buttons with white lettering on a dark blue background.) After pressing one of these buttons, shift mode is automatically ended and the indicator becomes unlit.

#### NOTE

- When in shift mode, press the **SHIFT** button again to end shift mode (and turn off the indicator). After searching folders/directories, if the **SHIFT** indicator is lit, press the **SHIFT** button to end shift mode.
- You can also press a button with a shift function while pressing and holding the **SHIFT** button to use its shift function.

#### ⑤ DISPLAY [LOCK] button

Press this button when the playback time is shown to switch the playback time display mode (track elapsed time, track remaining time or total remaining time). (See "Changing the playback time display mode" on page 32.)

When in menu mode, press this button to exit menu mode.

To turn the panel lock function on and off, press and hold this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. This function prevents the use of the buttons to avoid misoperation.

#### ⑥ Display

Shows various types of information.

#### ⑦ TRACK SKIP/DATA [INDEX/DIR SEARCH] knob

This is a multifunction knob that works as both a dial and a button. Use this knob to select (skip) tracks, select indexes, select directories, set the pitch control value, use menus, set the A-B repeat interval and as a jog dial, for example.

To select an index, turn this knob when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. When working with a data CD, use this function to select a directory. What happens after selection depends on the auto cue function setting. (See "Skipping to the next or previous track" on page 22.)

When in program setting mode, use this function to select tracks.

When in menu mode, turn this knob to select items and press it to confirm a selection. (See "Menu operation basics" on page 19.)

When in pitch adjustment mode, turn this knob to adjust the pitch value. (See "Pitch control playback" on page 27.)

When in jog mode, use this knob as a jog dial to search one frame at a time. (See "Using the jog function to search" on page 23.)

When using the A-B repeat function, press this knob to set the A and B points. (See "A-B repeat playback" on page 26.)

#### ⑧ JOG [PITCH] button

Press this button to start jog mode. (See "Using the jog function to search" on page 23.)

To turn the pitch function ON/OFF, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Pitch control playback" on page 27.)

## 2 – Names and Functions of Parts

### ⑨ MENU [PITCH] button

Press this button to start menu mode. When in menu mode, press this button to exit menu mode. (See "Menu operation basics" on page 19.)

To enter pitch adjustment mode, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Pitch control playback" on page 27.)

### ⑩ SPEAKER, ON/OFF switch, LEVEL knob & PHONES jack

Use the built-in mono speaker or stereo headphones to monitor the playback signal without needing to connect speakers.

Use the **SPEAKER** switch to turn the built-in speaker **ON** and **OFF**.

When headphones are connected, this speaker is disabled regardless of the **SPEAKER** switch position.

Connect stereo headphones to the standard stereo **PHONES** jack.

Use the **LEVEL** knob to adjust the output level of the built-in speaker and the headphones.

#### CAUTION

*Before connecting headphones, turn the LEVEL knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.*

### ⑪ REMOTE jack (2.5mm TRS)

Use this jack to connect a TASCAM RC-3F footswitch or TASCAM RC-20 direct playback remote control (sold separately). Use a remote control for flash starting and stopping playback, for example.

### ⑫ CLEAR button

Press this button to cancel the input of a number button.

When the CUE mode is ON, press a number button while pressing and holding this button to clear the corresponding cue point.

Press and hold when the program menu is open to clear all programs.

### ⑬ Number buttons

Use these number buttons to designate track numbers to select songs. Input two digits for audio CDs and three digits for data CDs. (See "Designating track numbers" on page 22.)

When CUE mode is on, use the number buttons to add, recall and delete cue points (up to 20). (See "Cue function" on page 25.)

When the flash start function is on, use the number buttons to flash start tracks or cue points.

Use the **+10** button to switch between 1-10 and 11-20 for flash start program numbers, track numbers and cue numbers.

### ⑭ Force eject hole

If the tray will not open ordinarily, insert a fine rod, such as a paperclip, here and press to open the tray.

#### CAUTION

*Always turn the power OFF before using the force eject hole.*

### ⑮ CUE button

Press to turn cue mode ON/OFF.

### ⑯ FLASH button

Press to turn the flash start function ON/OFF.

### ⑰ ■ STOP [INTRO CHECK] button

Press to stop playback.

If the incremental playback function is activated, press this button during playback to pause at the beginning of the next track.

When stopped, to activate the intro check mode, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button.

When this mode is activated, press the **▶ (play)** button to play the first 10 seconds of each track in succession. (See "Intro check mode" on page 27.)

### ⑱ CALL button

Press this button to return to the point where playback was last started and pause.

### ⑲ ► PLAY button and indicator

When stopped, press this button to start playback. (The indicator lights during playback.)

When paused, press this button to resume playback.

During playback, press this button to return to the point that was previously set. (See "Skip back playback" on page 30.)

### ⑳ ■ PAUSE button and indicator

Press during playback to pause (indicator lights).

When the auto-cue function is on, press when stopped to pause at the instant when sound begins in track 1.

When the auto-cue function is off, press when stopped to pause at the beginning of track 1.

### ㉑ SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] buttons

During playback or when paused, press the **◀◀** button to search backward, and press the **▶▶** button to search forward. (See "Using the SEARCH buttons" on page 23.)

When in program setting mode, use these to select the program number. (See "Program playback" on page 28.)

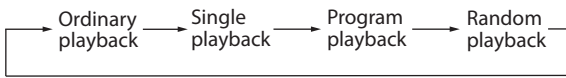
To turn the auto-cue function on and off, press the **◀◀** button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Auto-cue function" on page 24.)

To turn the auto-ready function on and off, press the **▶▶** button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button. (See "Auto-ready function" on page 24.)

## 2 – Names and Functions of Parts

### 22 PLAY MODE [REPEAT] button

Press this button to cycle through the playback modes in the following order. (See "Playback modes" on page 23.)



To turn repeat playback ON/OFF, press this button when in shift mode (when the **SHIFT** indicator is lit) or while pressing the **SHIFT** button.

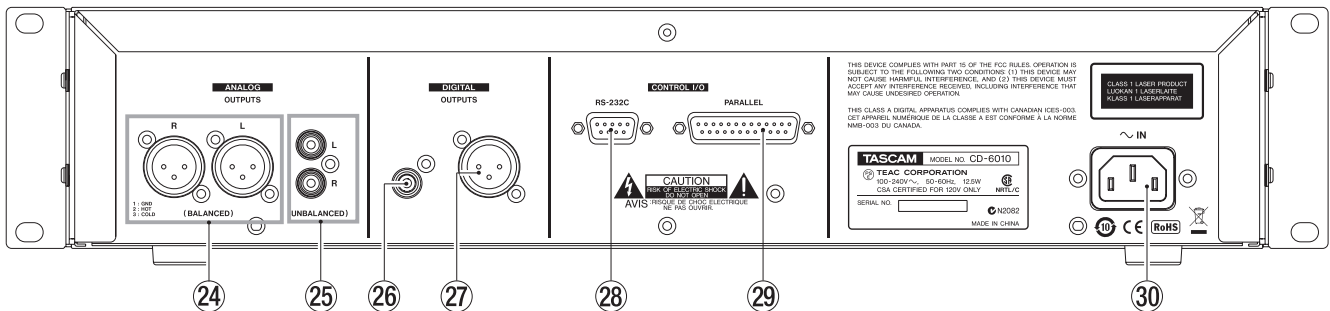
During playback or when paused, to turn A-B repeat mode ON, press and hold this button for at least 1 second when in shift mode (when the **SHIFT** indicator is

lit) or while pressing the **SHIFT** button. (See "A-B repeat playback" on page 26.)

### 23 Remote control receiver

This receives signals from the included TASCAM RC-500 wireless remote control. Point the end of the remote control toward here when using it.

## Rear panel



### 24 ANALOG OUTPUTS (BALANCED) connectors

These are balanced analog outputs for the CD playback signal. The maximum output level is +24 dBu. (1: GND, 2: HOT, 3: COLD)

#### NOTE

*The maximum output level of the analog balanced outputs can be changed internally. Contact our customer support for details.*

### 25 ANALOG OUTPUTS (UNBALANCED) jacks

These are analog outputs for the CD playback signal. The maximum output level is +6 dBV.

### 26 DIGITAL OUTPUTS (COAXIAL) connector

This outputs the CD playback as a S/PDIF or AES/EBU digital signal. Set the format of the output signal using the 22 **D-OUT** menu item. (See "Digital output format setting" on page 35.)

#### NOTE

- When playing back MP3 or WAV files, the sampling frequency of this unit's digital outputs is 44.1 kHz.
- When using the pitch control function while playing an audio CD or another disc with MP3 or WAV files, the digital output is at a fixed sampling frequency of 44.1 kHz.

### 27 DIGITAL OUTPUTS (XLR) connector

This outputs the CD playback as a S/PDIF or AES/EBU digital signal. Set the format of the output signal using the 22 **D-OUT** menu item. (See "Digital output format setting" on page 35.)

### 28 CONTROL I/O RS-232C connector

This is a D-sub 9-pin RS-232C serial control connector. Connect an external controller, for example, here. (See "Using the RS-232C connector" on page 34.)

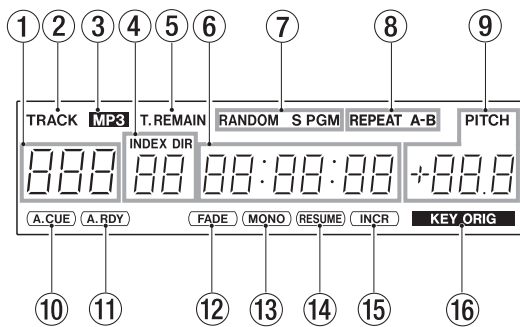
### 29 CONTROL I/O PARALLEL connector

This is a D-sub 25-pin parallel control connector. Use this to connect an external controller, for example. (See "Relay playback" on page 31, "Fader start and stop" on page 34 and "Using the parallel connector" on page 35.)

### 30 AC IN connector

Connect the included power cord here.

### Display



#### ① Track number

This shows the track number during playback and track selection.

When an audio CD is loaded, a two-digit track number is shown. When a data CD is loaded, a three-digit track number is shown

When in menu mode, the menu number is shown here.

#### ② TRACK indicator

This appears when a disc that has files that this unit can play back is loaded.

#### ③ MP3 indicator

This appears when a data CD is loaded.

#### ④ INDEX DIR number

During playback and selection, the index number (audio CD) or directory number (data CD) is shown here.

#### ⑤ Playback time display mode indicator

When the time display is showing the playback time, the following appears depending on the display mode. (See "Changing the playback time display mode" on page 32.)

- When the playback time display mode is set to remaining time, T.REMAIN appears.
- When the playback time display mode is set to track remaining time, REMAIN appears.
- When the playback time display mode is set to track elapsed time, nothing appears here. Likewise, nothing appears when in menu mode or program setting mode.

#### ⑥ Time display

This shows the time of the current playback position.

When in menu mode, the menu item is shown. When menu items are shown, the letters appear as follows.

ABCDEFGHIJKLM NOPQRSTUVWXYZ c g i n o r  
 R b C d E F G H I J K L M N O P Q R S T U V W X Y Z c g i n o r

#### ⑦ Playback mode indicators

The current playback mode is shown.

- Ordinary (all tracks) playback mode: Nothing appears
- Single playback mode: S appears
- Program playback mode: PGM appears
- Random playback mode: RANDOM appears

#### ⑧ Repeat mode indicators

The repeat mode is shown. (See "Repeat playback" on page 26 and "A-B repeat playback" on page 26.)

- Repeat mode: REPEAT appears
- A-B repeat mode: REPEAT and A-B appear (Before the A and B points have been set, the indicator shown here will vary depending on the status. For details, see "A-B repeat playback" on page 26.)

#### ⑨ PITCH indicator (and pitch adjustment)

When the pitch control function is ON, PITCH appears, and the amount of speed change is shown. (See "Pitch control playback" on page 27.)

When in menu mode, the setting value of the menu item is shown.

#### ⑩ A.CUE (auto-cue) indicator

When the auto-cue function is on, AUTO CUE appears. (See "Auto-cue function" on page 24.)

#### ⑪ A.RDY (auto-ready) indicator

When the auto-ready function is on, A.RDY appears. (See "Auto-ready function" on page 24.)

#### ⑫ FADE indicator

When the fade in/out function is on, FADE appears. (See "Fade in/fade out playback" on page 30.)

#### ⑬ MONO indicator

When the mono output function is on, MONO appears. (See "Outputting in mono" on page 33.)

#### ⑭ RESUME indicator

When the resume function is on, RESUME appears. (See "Resume function" on page 24.)

#### ⑮ INCR indicator (incremental play)

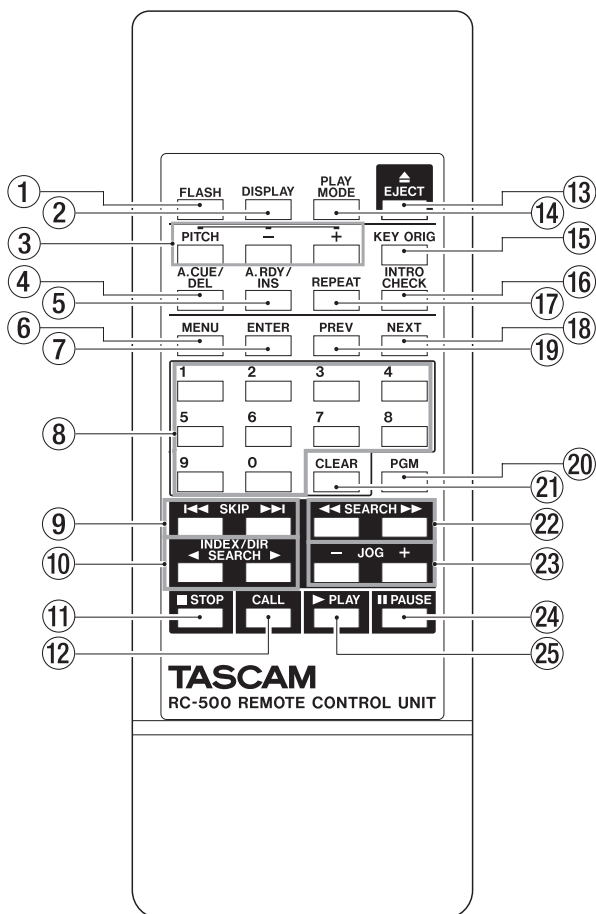
When the incremental play function is on, INCR appears. (See "Incremental play function" on page 25.)

#### ⑯ KEY ORIG (original key) indicator

When the original key function is on, KEY ORIG appears. (See "Changing the playback speed without changing the pitch (KEY ORIG)" on page 28.)

## 2 – Names and Functions of Parts

### Wireless remote control (TASCAM RC-500)



- ① **FLASH button**  
Press to turn the flash start function on and off.
- ② **DISPLAY button**  
Press this button to change the playback time display mode shown (track elapsed time, track remaining time or remaining time). (See "Changing the playback time display mode" on page 32.)  
When in menu mode, press this button to exit menu mode.
- ③ **PITCH and -/+ buttons**  
Press the **PITCH** button to turn the pitch control function on and off. Use the - and + buttons to set the pitch control value. (See "Pitch control playback" on page 27.)
- ④ **A.CUE/DEL button**  
Press this to turn the auto-cue function on and off. (See "Auto-cue function" on page 24.)  
Use this also to delete program tracks. (See "Program playback" on page 28.)
- ⑤ **A.RDY/INS button**  
Press this to turn the auto-ready function on and off. (See "Auto-ready function" on page 24.)  
Use this also to add program tracks. (See "Program playback" on page 28.)

- ⑥ **MENU button**  
Press this button to enter menu mode. When in menu mode, press this button to exit menu mode. (See "Menu operation basics" on page 19.)
  - ⑦ **ENTER button**  
When in menu mode, press to confirm a menu item selection or setting value. (See "Menu operation basics" on page 19.)  
When using the A-B repeat function, press this to set the A and B points. (See "A-B repeat playback" on page 26.)
  - ⑧ **Number buttons**  
Use these number buttons to designate track numbers to select songs. Input two digits for audio CDs and three digits for data CDs. (See "Designating track numbers" on page 22.)
  - ⑨ **SKIP (◀◀ / ▶▶) buttons**  
Use these buttons for track selection (skipping).  
Set the auto-cue function to determine what happens after selection. (See "Skipping to the next or previous track" on page 22.)  
In program setting mode, use these to select tracks for the program. (See "Program playback" on page 28.)
  - ⑩ **INDEX/DIR SEARCH (◀/▶) buttons**  
Use these to select indexes on an audio CD or directories on a data CD. Set the auto-cue function to determine what happens after selection. (See "Selecting indexes and directories" on page 22.)
  - ⑪ **STOP button**  
Press to stop playback. If the incremental play function is activated, press this button during playback to pause at the beginning of the next track. (See "Incremental play function" on page 25.)
  - ⑫ **CALL button**  
During playback or when paused, press this button to return to the point where playback was last started and pause. (See "Call function" on page 25.)
  - ⑬ **EJECT button**  
Press this to open and close the disc tray.
  - ⑭ **PLAY MODE button**  
Press this button to cycle through the playback modes. Choose from ordinary, single, program and random.
- Ordinary playback
→ Single playback
→ Program playback
→ Random playback
- ⑮ **KEY ORIG button**  
Turn the original key function, which changes the speed without changing the pitch, on and off. (See "Changing the playback speed without changing the pitch (KEY ORIG)" on page 28.)

## 2 – Names and Functions of Parts

### 16 INTRO CHECK button

When stopped, during playback or when paused, press this button to activate intro check mode. When in intro check mode, press the ► **PLAY** button to play the first 10 seconds of each track in succession. (See “Intro check mode” on page 27.)

### 17 REPEAT button

Press to turn the repeat playback function on and off. (See “Repeat playback” on page 26.)

Press and hold for more than one second to turn the A-B repeat function on. (See “A-B repeat playback” on page 26.)

### 18 NEXT button

When in menu mode, press to select the next value (menu item or setting value). (See “Menu operation basics” on page 19.)

### 19 PREV button

When in menu mode, press to select the previous value (menu item or setting value). (See “Menu operation basics” on page 19.)

### 20 PGM button

Press to open program setting mode. (See “Program playback” on page 28.)

### 21 CLEAR button

Press this button to cancel the input of a number button.

Press and hold when the program menu is open to clear the program.

#### NOTE

*Unlike the CLEAR button on the main unit, the CLEAR button on the wireless remote control cannot be pressed and held while pressing a number button to delete a cue point.*

### 22 SEARCH (◀◀/▶▶) buttons

During playback or when paused, press the ◀◀ button to search backward, and press the ▶▶ button to search forward. (See “Using the SEARCH buttons” on page 23.)

When in program setting mode, use these to select the program number. (See “Program playback” on page 28.)

### 23 JOG (–/+ ) buttons

When paused, press a **JOG** (+ or –) button to enter jog mode. Press the + button to advance one frame, and press the – button to go back one frame. (See “Using the jog function to search” on page 23.)

### 24 II PAUSE button

Press during playback to pause.

When the auto-cue function is on, press when stopped to pause at the instant when sound begins in track 1. When the auto-cue function is off, press when stopped to pause at the beginning of track 1.

### 25 ► PLAY button

When stopped, press this button to start playback.

When paused, press this button to resume playback.

When the incremental play function is on, press this button during playback to start playback of the next track. When the incremental play function is off, press this button during playback to use skip back playback.

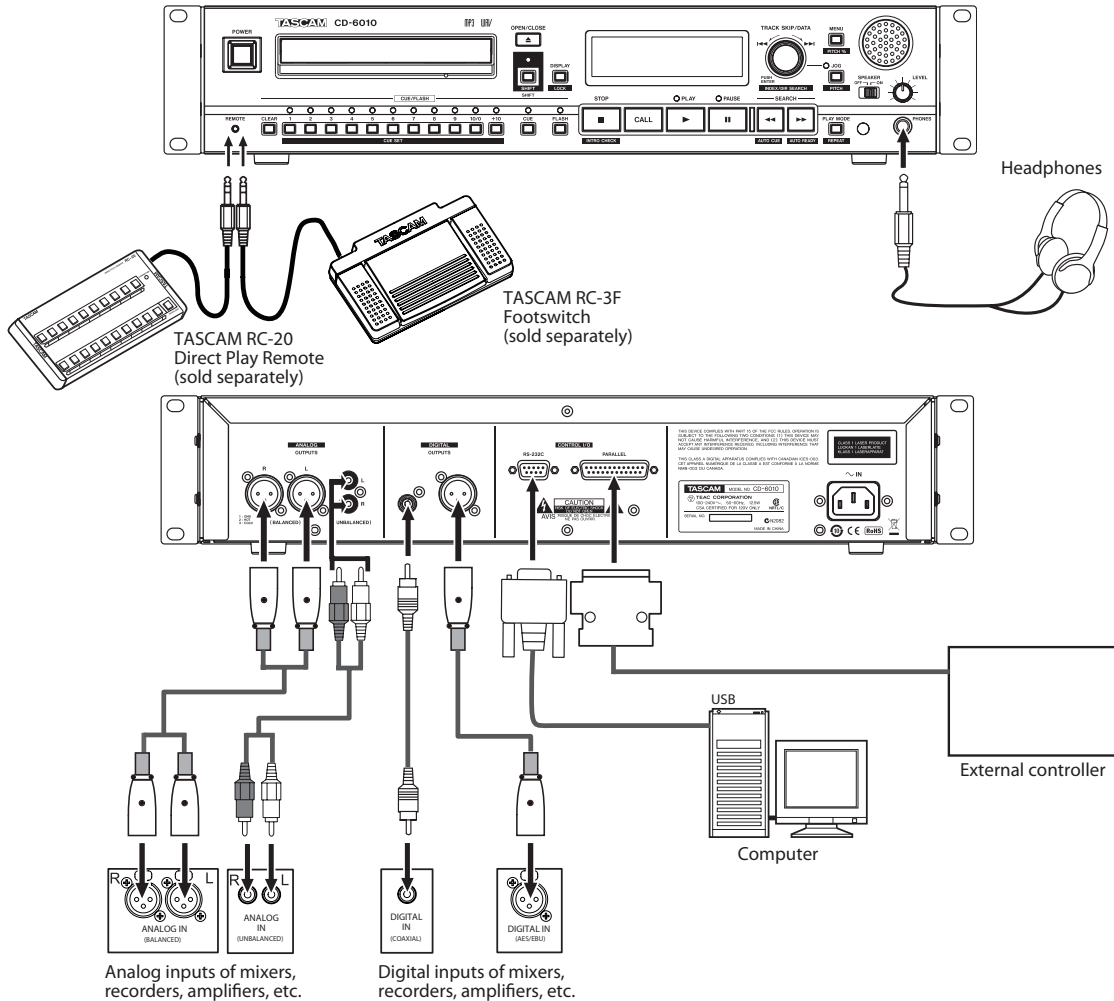
# 3 – Preparation

## Making connections

The illustration below shows an example of connecting other equipment with a CD-6010.

### Precautions before making connections

- Before connecting other devices to the unit, read their manuals carefully.
- Turn off the power (or put power into standby mode) for this unit and all equipment that will be connected to it.
- Connect all the devices to the same power supply line. When using a power strip, for example, use a thick cable with a high current capacity to minimize variation in the power voltage.



### Connecting a footswitch

Connect a TASCAM RC-3F footswitch (sold separately) to the **REMOTE** connector to enable it to control some unit operations. (See “Controlling the player with a footswitch” on page 33.)

### Connecting a direct play remote

Connect a TASCAM RC-20 direct play remote (sold separately) to the **REMOTE** connector to enable it to control some unit operations. (See “Controlling the player with a direct play remote” on page 34.)

### Connecting headphones

Connect stereo headphones to the **PHONES** jack on the front panel. Use the **LEVEL** knob to adjust the volume.

### CAUTION

Before connecting headphones, turn the **LEVEL** knob to minimize the volume. Failure to do so might cause sudden loud noises, which could harm your hearing or result in other trouble.

### Connecting with a computer

Connect the **RS-232C** connector on this unit to a RS-232C connector on a computer to allow serial control of this unit from that computer.

After connecting the unit to a computer, make transmission settings correctly on this unit. (See “Using the RS-232C connector” on page 34.)

## Connecting digital audio equipment

Connect the digital inputs of stereo amplifiers, mixers, recorders and other digital equipment to this unit's digital output connectors.

## Connecting analog audio equipment

Connect the analog inputs of stereo amplifiers, mixers, recorders and other analog equipment to this unit's analog output connectors.

### NOTE

- Cables are not included with this unit.
- Do not bundle RCA cables with power cords or speaker cables. Doing so could cause noise or otherwise reduce sound quality.

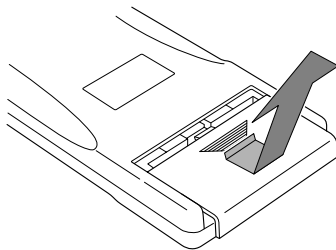
## Using the parallel connector

To use an external controller for parallel control of the unit, use the **CONTROL I/O PARALLEL** connector (D-Sub 25-pin). For the pin assignments of the PARALLEL connector, see "Using the parallel connector" on page 35.

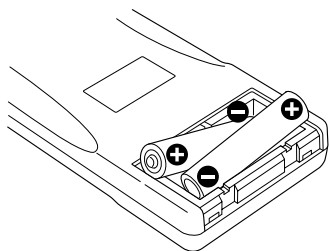
## Preparing the remote control

### Inserting batteries

- 1 Open the cover on the back of the remote control.



- 2 Insert two AAA batteries with the correct ± orientations.



- 3 Close the cover.

### When to replace the batteries

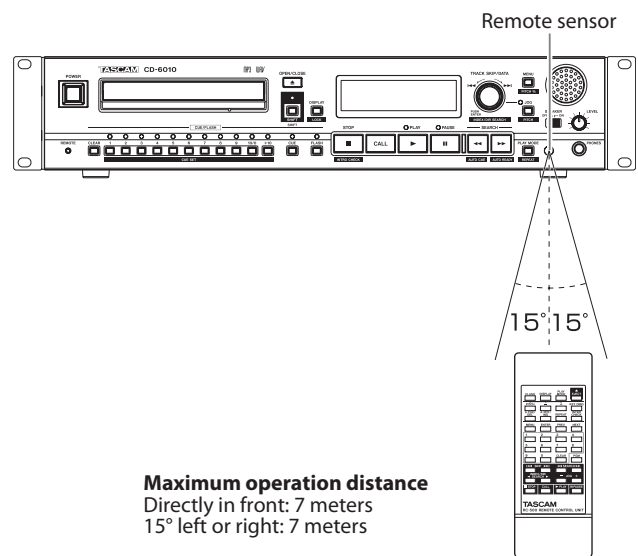
Replace both batteries with new ones when the range of the remote control becomes short or if the buttons become unresponsive.

## Precautions about using batteries

Misuse of batteries could cause them to leak, rupture or otherwise be damaged. Please read and abide by the precautions on the battery labels when using them. See page 4 of this manual for additional precautions.

## Precautions about using the remote control

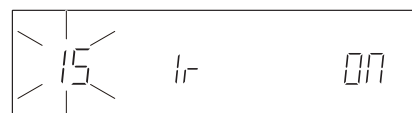
- When using other devices controlled by infrared rays, use of this remote control might operate these devices by mistake.
- Use the remote control within the following range.



## Remote control reception settings

Operation of the unit using the remote control can be disabled in order to prevent misoperation.

Use the 15 IR menu item to set whether or not the unit can be operated by remote control (default value: ON).



### NOTE

- If remote control reception has been set to OFF, IR OFF will appear on the display when any of the remote control buttons are pushed.
- The remote control reception setting (on/off) is saved even if the unit's power is turned off.

## 3 – Preparation

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### Panel lock function

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When in shift mode (when the **SHIFT** indicator is lit), press and hold the **DISPLAY [LOCK]** button to turn the panel lock function on or off. You can also turn it on/off by pressing the **DISPLAY [LOCK]** button while pressing and holding the **SHIFT** button.

When it is on, all the buttons on the front panel of the unit (except the **SHIFT** and **DISPLAY [LOCK]** buttons) and the remote control are disabled. **LOCKED** will appear on the display if you push any of the buttons.

#### NOTE

- *Even when the panel lock function is enabled, the unit can be controlled by a TASCAM RC-3F footswitch connected to the REMOTE jack on the front panel and external controllers connected to the RS-232C connector and CONTROL I/O PARALLEL connectors on the rear panel.*
- *The panel lock setting (on/off) is saved even if the unit power is turned off.*

Use the unit's menu system to make various settings. Among the menu setting items are some that can also be set using dedicated buttons on the remote control.

## Menu structure

The menu structure of the unit includes the following items.

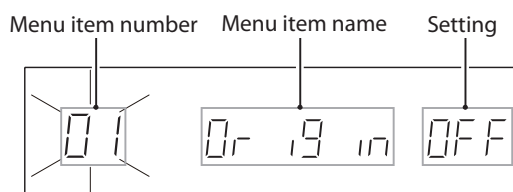
Menu number	Item	Function set	Reference
01	Origin	Original key	Page 28
02	TRAY	Tray lock	Page 21
03	A_CUE	Auto-cue level	Page 24
04	Prog	Program	Page 28
05	FADE	Fade in/out playback	Page 30
06	EOM_D	DISC EOM time display	Page 32
07	P onPL	Power on play	Page 27
08	Mono	Mono output	Page 33
09	RESUM	Resume	Page 24
10	EOM_T	TRACK EOM time display	Page 32
11	Inc-P	Incremental play	Page 25
12	P-STEP	Pitch control steps	Page 28
13	232C	Baud rate	Page 34
14	S-BAC	Skip back	Page 30
15	IR	Remote control reception	Page 17
16	INTVAL	Silent interval between tracks	Page 33
17	FRAM	Frame time display	Page 32
18	REMOT	Footswitch mode	Page 33
19	ATT	Analog attenuation	Page 35
20	RESET	Restore unit to factory defaults	Page 34
21	INFO	View the firmware version	Page 35
22	D-OUT	Digital output format	Page 35

## Menu operation basics

The basic procedures for making settings using the menu system are as follows.

- 1 **When the display shows the usual playback information, press the MENU button on the unit or the included TASCAM RC-500 remote control.**

The center area of the display shows the menu item selected. The menu item that was selected the last time that the unit was in menu mode appears.



- 2 **Use the unit's front panel buttons or the remote control to conduct the following operation to select the desired menu item.**

- **When using the front panel buttons:** Turn the **TRACK SKIP/DATA** knob or use the number buttons to select the menu item, and press the **TRACK SKIP/DATA** knob to confirm.
- **When using the remote control:** Use the **PREV** and **NEXT** buttons, as well as the number buttons to select the menu item, and press the **ENTER** button to confirm.

### NOTE

- The menu item number blinks before it has been confirmed.
- When using the number buttons input two digits to select menu items. For example, to select menu number 06, press the 0 button followed by the 6 button.

The following step (3) applies to all items except 04 PROG, 20 RESET and 21 INFO. See their explanations for instructions about how to use these items.

- 3 **Select the desired value.**

- **When using the front panel buttons:** Turn the **TRACK SKIP/DATA** knob to select the value and press the **TRACK SKIP/DATA** knob to confirm the setting.
- **When using the remote control:** Use the **PREV** and **NEXT** buttons to select the value and press the **ENTER** button to confirm the setting.

### NOTE

- When a value different from the active setting is selected, the value blinks. After the new setting is confirmed, menu item selection mode appears again.
- To cancel a setting change, press the **MENU** button on the unit or the remote control.

- 4 Repeat steps 2–3 again as necessary.
- 5 **To exit menu mode, press the MENU button on the unit or the remote control.**

# 5 – Operation

## Compatible disc and file types

This unit can play the following types of discs and files.

### CD-DA format discs (audio CDs)

This unit can play commercially-available music CDs and CD-R discs that have been recorded in audio CD format. These types of discs are called “audio CDs” in this manual.

This unit cannot play unfinalized CD-R discs.

### CD-ROM format discs (data CDs)

This unit can play discs that have MP3 and WAV files and use ISO 9660 Level 1, Level 2 or Joliet file system formats. These types of discs are called “data CDs” in this manual.

#### NOTE

- This unit can play back MP3 files that have sampling frequencies of 32, 44.1 and 48 kHz and have bit-rates of 32–320 kbps or are variable bit-rate (VBR).
- This unit can play back WAV files that have sampling frequencies of 32 kHz/44.1 kHz/48 kHz and are 16-bit.
- When playing back MP3 or WAV files, the sampling frequency of this unit's digital outputs is 44.1 kHz. When the pitch control function is enabled, output is also digital, and some devices might not be able to receive digital output from this unit.
- This unit uses the “.mp3” file extension to recognize MP3 files. Always add the “.mp3” extension to MP3 file names. The player cannot play back MP3 files that do not have the “.mp3” extension. In addition to having the “.mp3” extension, the file must also be in the proper MP3 data format to allow playback by this unit.
- This unit uses the “.wav” file extension to recognize WAV files. Always add the “.wav” extension to WAV file names. The player cannot play back WAV files that do not have the “.wav” extension. In addition to having the “.wav” extension, the file must also be in the proper WAV data format to allow playback by this unit.
- Discs that contain more than 1000 files or 255 directories might not play back correctly.
- Depending on the condition of a disc, this unit might not be able to play it back, or skipping might occur.

## Directories and tracks on data CDs

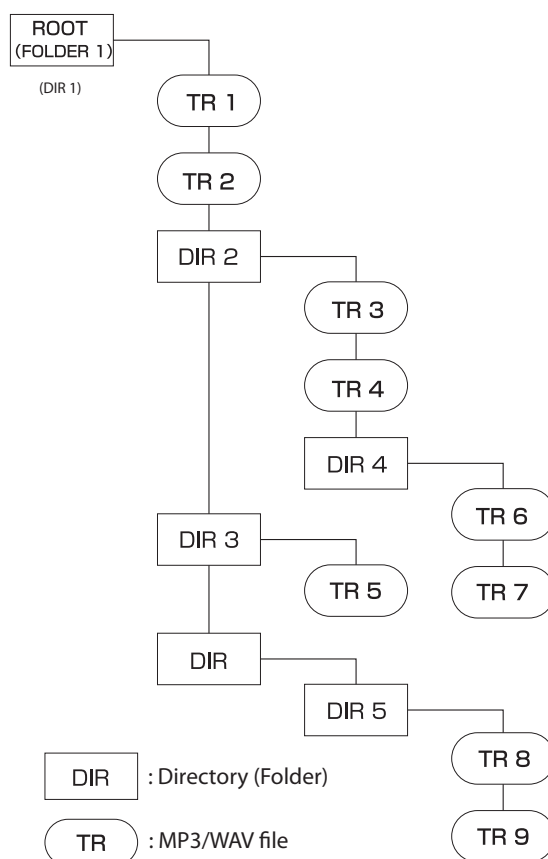
This unit treats all the audio (WAV and MP3) files on data CDs as “tracks.” Some data CDs store files inside directories (folders) in the same way that ordinary computers do. In addition, directories can be stored inside other directories creating a multilevel structure.

This unit assigns a directory number to each directory to manage them. Directory numbers are assigned sequentially starting with the directories at the highest level followed by the directories (subfolders) inside them. If the root directory of a data CD contains one or more audio files, it will be numbered as the first directory.

Each audio file is also assigned a track number. Track numbers are assigned in order starting from those in the lowest numbered directory.

During ordinary playback of data CDs, tracks are played back in the assigned numerical order just like those on an audio CD.

Directories that do not directly contain audio files are not given numbers. For example, in the illustration below the directory that contains Directory 5 is not given a number.



An example of data CD structure

## Loading discs

### Inserting a disc

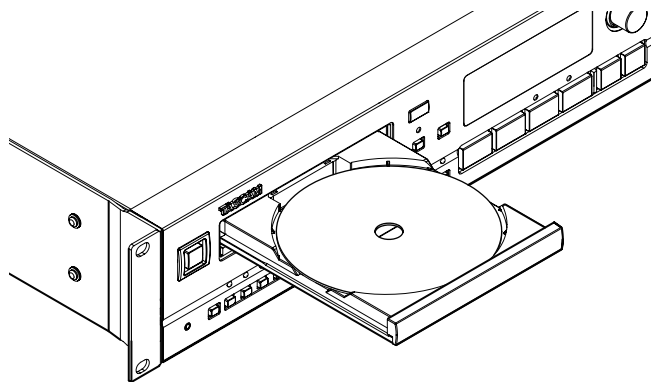
To load a CD, press the **OPEN/CLOSE** button on the unit or the **EJECT** button on the remote control to open the disc tray. Load the disc with its label side up.

Press the **OPEN/CLOSE** button or the **EJECT** button again to close the disc tray.

After a disc is loaded, the player will read its information. If it is an audio CD, the display will show the total number of tracks and total playback time. If it is a data CD, the display will show the total number of tracks in the current folder.

#### NOTE

You can also press the ► [PLAY] button to close the disc tray and start playback immediately instead of pressing the OPEN/CLOSE button or the EJECT button again to close the disc tray.



### Ejecting a disc

Press the **OPEN/CLOSE** button on the player or **EJECT** button on the remote .

Remove the disc after the tray opens.

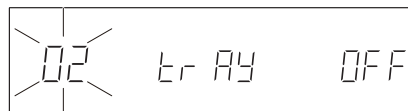
#### NOTE

- In order to reduce the disc ejection time, the tray opens before the disc stops spinning completely.
- The OPEN/CLOSE button functions when the power is ON. If you must remove a disc when the power is OFF, insert a paperclip or similar stiff rod into the hole beneath the tray and push to open the tray.

## Tray lock function

The tray lock function allows you to disable the operation of the **OPEN/CLOSE** button on the player during playback and when paused in order to prevent playback from being interrupted if this button is pressed accidentally.

To turn the tray lock function on, set the 02 TRAY menu item to LOK (default value: OFF).



#### NOTE

The tray lock function on/off setting is maintained even when the player's power is turned off.

## Playing back a CD

The following procedures assume that the necessary connections have been completed, the player's power has been turned on and a CD (audio or data) has been loaded.

To start playback, press the ► [PLAY] button on the player or the ► **PLAY** button on the remote.

### Stopping playback

Press the ■ **STOP [INTRO CHECK]** button on the player or the ■ **STOP** button on the remote.

### Pausing playback

Press the || [PAUSE] button on the player or the || **PAUSE** button on the remote.

To restart playback, press the ► [PLAY] button on the player or the ► **PLAY** button on the remote.

#### NOTE

In this manual, unless stated otherwise, explanations assume that continuous playback mode is enabled. (See "Playback modes" on page 23.)

## 5 – Operation

### Selecting a track

You can move (skip) to the previous or next track, or you can select a track directly by its track number.

### Skipping to the next or previous track

Turn the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob on the player or press the **SKIP** ◀◀ / ▶▶ buttons on the remote to select a track. What happens after you use **SKIP** buttons to select a track depends on whether the auto-cue function is on or off. (See “Auto-cue function” on page 24.)

#### When stopped

If the auto-cue function is off, after a track is selected, playback pauses at the beginning of that track. After this, press the ▶ [PLAY] button on the unit or the ▶ **PLAY** button on the remote to start playback.

If the auto-cue function is on, playback pauses at the instant when sound begins in the track. To start playback after this, press the ▶ [PLAY] button on the player or the ▶ **PLAY** button on the remote.

#### During playback

The selected track will start playing back.

#### When paused

If the auto-cue function is off, playback pauses at the beginning of the selected track.

If the auto-cue function is on, playback pauses at the instant when sound begins in the track.

#### NOTE

*If you press the ◀◀ button once during playback or when paused, playback will skip to the beginning of the current track. However, if playback is one second or less from the beginning of the current track, pressing the ◀◀ button will skip to the previous track.*

### Designating track numbers

Use the number buttons on the player or the remote to directly designate track numbers.

#### ■ With audio CDs

Enter two digits. For example, if the track number is “9”, enter “0” followed by “9”.

#### ■ With data CDs

Enter three digits. For example, if the track number is “105”, enter “1”, “0” and then “5”. If the track number is “4”, enter “0”, “0” and then “4”.

#### When stopped, use the number buttons to designate a track number and,

- If the auto-cue function is off, pause at the beginning of the designated track. After this, press the ▶ [PLAY] button on the unit or the ▶ **PLAY** button on the remote to start playback.

- If the auto-cue function is on, pause playback at the instant when sound begins in that track.

#### During playback, use the number buttons to designate a track number and start playback of that track.

#### When paused, use the number buttons to designate a track number and,

- If the auto-cue function is off, pause playback at the beginning of that track.
- If the auto-cue function is on, pause playback at the instant when sound begins in that track.

### Selecting indexes and directories

You can select track indexes on audio CDs and directories on data CDs.

#### NOTE

- *Audio CD indexes are divisions within tracks. In other words, they are units that are smaller than tracks.*
- *Data CD directories are folders that contain MP3 and WAV files (tracks). In other words, they are units that are larger than tracks.*

Use the following procedures to select indexes and directories.

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit) use the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob to select them. You can also do this by pressing the **TRACK SKIP/DATA** ◀◀ / ▶▶ [INDEX/DIR SEARCH] knob while pressing and holding the **SHIFT** button.

#### Using the remote control:

Use the **INDEX/DIR SEARCH** ◀ / ▶ buttons to select them.

When a data CD directory is selected, the first track inside that directory will automatically start playing back (unless the auto-cue function is on, in which case it will pause at the instant when sound first begins in the first track).

When an audio CD index is selected, playback of the track from the selected index will begin (unless the auto-cue function is on, in which case it will pause at the instant sound first begins in the designated index).

## Using the SEARCH buttons

You can search forward and backward in a track while listening to it.

- 1 Play or pause the desired track.
- 2 Press and hold a SEARCH ◀◀/▶▶ [AUTO CUE/AUTO READY] button on the player or a SEARCH ◀◀/▶▶ button on the remote to start searching forward or backward.
- 3 Release the button that you are holding to stop searching and return the player to the state it was in before searching (playback or pause).

### NOTE

The search function cannot be used with data CDs.

## Using the jog function to search

You can use the jog function to search a track one frame at a time. However, this function cannot be used with data CDs.

### Using the front panel buttons:

When paused, press the **JOG** button to enter jog mode, and turn the **TRACK SKIP/DATA** knob to search the track one frame at a time.

### Using the remote control:

When paused, press a **JOG (+/-)** button to enter jog mode. Press the + button to advance one frame, and press the – button to go back one frame.

### NOTE

In jog mode, if you stop searching, playback will pause, but the sound at the current position will be output continuously.

## Playback modes

This unit has 4 playback modes.

The current playback mode is indicated on the display.

### ■ Continuous playback mode (default)

Nothing appears in the playback mode indication area at the top of the display.

The tracks on the disc are played back in numerical order.

### ■ Single playback mode

◻ appears in the playback mode indication area at the top of the display.

The selected track is played back once and then playback stops.

### ■ Program playback mode

PGM appears in the playback mode indication area at the top of the display.

Tracks are played back in the order programmed in advance. (See “Program playback” on page 28.)

### ■ Random playback mode

RANDOM appears in the playback mode indication area at the top of the display.

Tracks on the disc are played back in random order.

## Selecting the playback mode

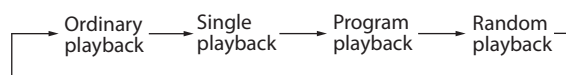
Use the following procedures to set the desired playback mode using the controls on the player or the included TASCAM RC-500 remote control.

### Using the front panel buttons:

Press the **PLAY MODE [REPEAT]** button to cycle through the playback modes.

### Using the remote control:

Press the **PLAY MODE** button to cycle through the playback modes.



### NOTE

Playback mode settings are retained even when the power is turned off.

# 6 – Various Playback Functions

This chapter explains the various playback functions of the unit.

## Auto-cue function

If the auto-cue function is on and you select a track to play, any silence at the beginning of the track will be skipped, and the player will pause at the instant when a sound signal is first detected. This means that sound can be heard immediately when playback starts.

### NOTE

- When the flash start function is used for playback, the auto-cue function is disabled.
- If the auto-cue function is on and a track is selected during playback, that track will play back from the instant that sound begins in the selected track. If the auto-cue function is on and a track is selected when paused, the player will pause at the instant that sound begins in the selected track.

Moreover, you can set the audio signal detection threshold level (auto-cue level) that is used by the auto-cue function. Any signal higher than the set auto cue level will be recognized as “sound,” and any signal lower than this level will be treated as “silence.”

The following procedure describes how to use the menu to turn the auto-cue function on/off and adjust the auto-cue level setting. (For details about using the menu screen, refer to the “Menu operation basics” on page 19.)

### ■ Turning the auto-cue function on/off

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **SEARCH ◀◀ [AUTO CUE]** button to turn it on/off. You can also do this by pressing the **SEARCH ◀◀ [AUTO CUE]** button while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the **A.CUE/DEL** button to turn it on/off.

When the auto-cue function is on, **A.CUE** appears in the lower part of the display.

### NOTE

The auto-cue function on/off setting is retained even when the power is turned off.

## Setting the auto-cue level

To set the auto-cue function trigger level (auto-cue level), use the **03 A-CUE** menu item.



Options: 24 (default value), 30, 36, 42, 48, 54, 60, 66, 72

These values represent auto-cue levels in dB. The point when the signal level of the selected track first exceeds the auto-cue level is recognized as the instant when sound starts.

### NOTE

The auto-cue level setting is retained even when the power is turned off.

## Auto-ready function

If auto-ready is on, after a track has finished playing, playback will pause at the beginning of the next track.

### NOTE

- If the auto-cue function is also on, playback will pause at the instant when sound starts rather than at the beginning of the track.
- When using the flash start function for playback, the auto-ready function is disabled.

### ■ Turning the auto-ready function on/off

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **SEARCH ▶▶ [AUTO READY]** button to turn it on/off. You can also do this by pressing **SEARCH ▶▶ [AUTO READY]** while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the **A.RDY/INS** button to turn it on/off.

When the auto-ready function is on, **A.RDY** appears in the lower part of the display.

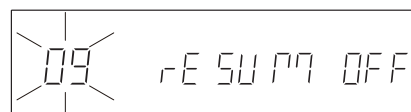
### NOTE

The auto-ready function on/off setting is retained even when the power is turned off.

## Resume function

When the resume function is on, the position where playback stops is memorized. When playback is started again playback resumes from that position. When this function is used with a data CD, however, playback resumes from the beginning of the track that was playing when playback was stopped.

To turn the resume function on/off, use the **09 RESUM** menu item (default value: OFF).



When the resume function is on, **RESUME** appears in the lower part of the display.

### NOTE

The resume function on/off setting is retained even when the power is turned off.

## Call function

During playback or when paused, press the **CALL [PLAY MODE]** button on the player or the **CALL** button on the remote to locate to the point when playback last started and pause playback. However, when this function is used with a data CD, playback pauses at the beginning of the track that was playing when playback was last started.

## Cue function

You can use the cue function to store in memory up to 20 time points on an audio CD to recall them when desired.

Press the **CUE** button on the front panel to use the cue function. When active, the **CUE** indicator lights.

### NOTE

- The cue function does not work with data CDs.
- When the cue indicator is lit, the number buttons on the unit and the remote control are used by the cue function and cannot be used to designate track numbers or to flash start tracks. To use these functions, push the **CUE** button to turn the **CUE** indicator off.
- Cue points are retained even when the power is turned off.

## Setting cue points

During playback or when paused, after putting the unit in shift mode (**SHIFT** indicator lit), press a number button on the unit or remote control to set a cue point at the current playback time. Press the **+10** button to use the buttons to set points 11–20 when the indicator is lit.

The indicators light for number buttons that have cue points set.

### NOTE

You can also set points by pressing a number button while pressing and holding the **SHIFT** button.

## Using cue points

When shift mode is disabled (**SHIFT** indicator unlit) and a cue point is assigned (number indicator lit), press the corresponding number button to jump to that cue point and pause.

If the **FLASH** indicator is lit, pressing a number button with a set cue point will start playback from that point immediately. (See "Flash start function" on page 30.)

## Clearing cue points

To clear a cue point, press the corresponding number button (indicator lit) while pressing the **CLEAR** button. After a cue point has been cleared the indicator will become unlit.

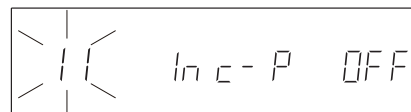
## Incremental play function

When the incremental play function is on, pressing the **▶ PLAY** button on the unit or the remote during playback will start playback from the beginning of the next track, and pressing the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote will pause playback at the beginning of the next track.

### NOTE

- When the incremental play function is on and playback is paused, pressing the **▶ PLAY** button on the unit or the remote will start playback from that point, and pressing the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote stops playback.
- During playback of the last track, if you press the **▶ PLAY** button on the unit or the remote, playback of the first track will start. If you press the **■ STOP [INTRO CHECK]** button on the player or the **■ STOP** button on the remote, playback will pause at the beginning of the first track.
- Setting the control I/O parallel connector pin 2 (**PLAY IN**) or 3 (**STOP IN**) to **ON** has the same effect.
- Receiving a stop command from the control I/O parallel connector pin 8 (**FADER START/STOP**) has the same effect.

To turn the incremental play function on/off, use the **11 Inc-P** menu item (default value: **OFF**).



When the incremental play function is on, **INCR** appears in the lower part of the display.

### NOTE

The incremental play function on/off setting is retained even when the power is turned off.

## 6 – Various Playback Functions

### Repeat playback

You can repeatedly play back all tracks or repeatedly play back a specified region within a track (A-B repeat playback).

### Ordinary repeat playback

When the repeat playback function is on, behavior depends on the playback mode.

- All track playback (ordinary playback) mode: the entire disc is played back repeatedly
- Single track playback mode: the current track is played back repeatedly
- Program playback mode: all the tracks in the program are played back repeatedly
- Random playback mode: all the tracks on the disc are played back at random repeatedly

Use one of the following procedures to turn the repeat playback function on.

#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **PLAY MODE [REPEAT]** button. **REPEAT** appears at the top of the display when repeat mode is activated. You can also do this by pressing the **PLAY MODE [REPEAT]** button while pressing and holding the **SHIFT** button.

#### Using the remote control:

Press the remote **REPEAT** button. **REPEAT** appears at the top of the display when repeat mode is activated.

Use one of the following procedures to turn the repeat playback function off.

- When the player is in shift mode (**SHIFT** indicator lit), press the **PLAY MODE [REPEAT]** button again until **REPEAT** disappears from the top of the screen. You can also do this by pressing the **PLAY MODE [REPEAT]** button while pressing and holding the **SHIFT** button.
- Press the **REPEAT** button on the remote until **REPEAT** disappears from the top of the screen.

#### NOTE

*The repeat playback setting is retained even when the power is turned off.*

### A-B repeat playback

You can specify a desired interval (A-B) within a track to be played back repeatedly. Use the following procedures to enable A-B repeat playback.

- 1 During playback or when paused, when the player is in shift mode (**SHIFT** indicator lit), press and hold the **PLAY MODE [REPEAT]** button on the player, or press and hold the **PLAY MODE [REPEAT]** button while pressing the **SHIFT** button, or press and hold the **REPEAT** button on the remote to activate A-B repeat mode. **REPEAT** will blink at the top of the display.
- 2 Press the **TRACK SKIP/DATA** knob on the player or the **REPEAT** button on the remote at the beginning of the interval that you want to repeat (A point). **A-B** will blink at the top of the display.
- 3 Once again, press the **TRACK SKIP/DATA** knob on the player or the **REPEAT** button on the remote at the end of the interval that you want to repeat (B point). Repeat playback between the A and B points will begin, and **A-B** will stop blinking and continue to appear at the top of the display.
- 4 To end A-B repeat playback, press the **STOP [INTRO CHECK]** button on the player or the **STOP** button on the remote.

#### NOTE

- A-B repeat playback cannot be used with a data CD.
- Once playback reaches the B point, playback will restart from the A point.
- A-B repeat playback across more than one track is not possible.

## 6 – Various Playback Functions

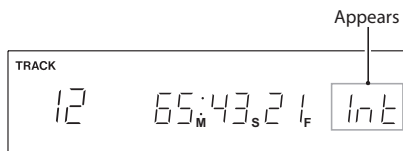
### Intro check mode

The Intro Check mode allows 10-second track beginnings to be played in succession. Use the following procedures to enable this mode.

#### Using the front panel buttons:

- 1 When stopped and in shift mode (SHIFT indicator lit), press the **STOP [INTRO CHECK]** button. You can also do this by pressing the **STOP [INTRO CHECK]** button while pressing and holding the **SHIFT** button.

INT appears on the right side of the display.



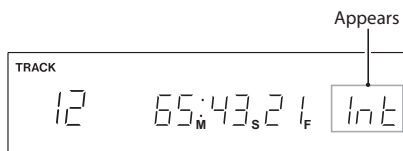
#### NOTE

Intro check mode cannot be enabled together with single playback mode or random playback mode.

- 2 Press the **▶ [PLAY] [REPEAT]** button to activate the intro check mode starting from the next track.
- 3 Press the **■ STOP [INTRO CHECK]** button again to stop the play and disable intro check mode.

#### Using the remote control:

- 1 When stopped or paused, press the remote **INTRO CHECK** button to enable intro check mode. INT appears on the right side of the display.



#### NOTE

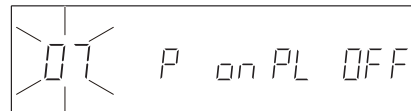
If you press the **INTRO CHECK** button on the remote control during playback, INT appears on the right side of the display and intro check starts immediately.

- 2 If stopped or paused, press the **▶ PLAY** button to start intro check.
- 3 Press the **■ STOP** button to stop playback and disable intro check mode.  
Press the **INTRO CHECK** button again to disable intro check mode and continue playback.

### Power on play function

By using a commercially-available external timer, you can make the player turn on at desired times and start playback.

- 1 First, connect the power of this unit so that it receives power from the timer.
- 2 Load the disc that you want played back.
- 3 Set the **07 P onPL** menu item to ON (default value: OFF).



- 4 Leave the **POWER** switch of this unit set to ON, turn the power off from the timer and set the timer to turn on at the desired time. At the set time, the timer should supply power to the player, turning it on, and playback should begin automatically.

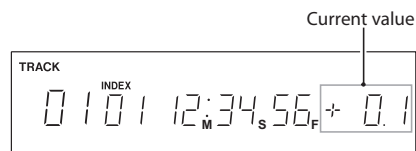
#### NOTE

The power on play function on/off setting is retained even when the power is turned off.

### Pitch control playback

Using its pitch control playback function, this unit can vary the pitch (and speed) of playback.

Follow these procedures to use pitch control playback. When this function is on, **PITCH** and the setting value appear in the **PITCH** display area on the right side of the display.



#### Using the front panel buttons:

When in shift mode (**SHIFT** indicator lit), press the **JOG [PITCH]** button to turn the pitch control function ON. You can also do this by pressing the **JOG [PITCH]** button while pressing and holding the **SHIFT** button.

After pressing the **SHIFT** button, press the **MENU [PITCH %]** button to enter pitch setting mode and use the **TRACK SKIP/DATA** knob to adjust the setting in the range between -16% and +16%. The pitch setting value blinks while it is being set. You can also enter pitch setting mode by pressing the **MENU [PITCH%]** button while pressing and holding the **SHIFT** button.

After making the setting, press the **SHIFT** button and then the **MENU [PITCH%]** button to exit pitch setting mode. You can also exit pitch setting mode by pressing the **MENU [PITCH%]** button while pressing and holding the **SHIFT** button.

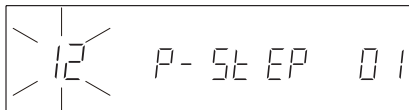
## 6 – Various Playback Functions

### Using the remote control:

Press the **PITCH** button to turn the pitch control function on. Use the + and – buttons to adjust the setting in the range between –16% and +16%.

### Setting the pitch adjustment increment

To set the adjustment increment for pitch control playback (pitch step) use the 12 P-STEP menu item.



Options (%): 0.1 (default value), 0.5, 1.0

#### NOTE

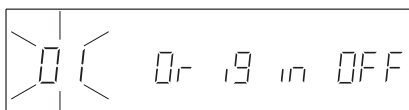
The pitch step setting is retained even when the power is turned off.

### Changing playback speed without changing pitch (KEY ORIG)

Ordinarily, when using the pitch control function, the speed changes along with the pitch. When the original key function is on, however, the pitch does not change even when the playback speed is changed.

Use one of the following procedures to turn the original key function on/off.

- Press the **KEY ORIG** button on the remote.
- Use the 01 Origin menu item (default value: OFF).



When the original key function is on, **KEY ORIG** appears at the bottom of the display.

#### NOTE

The original key function on/off setting is retained even when the power is turned off.

### Program playback

By setting a program in advance, you can set the unit to play tracks in the order that you want. Up to 100 tracks can be added to the program. To use program playback to play tracks in the program order, set the playback mode to program playback mode and start playback. (See "Selecting the playback mode" on page 23.)

### Program setting mode

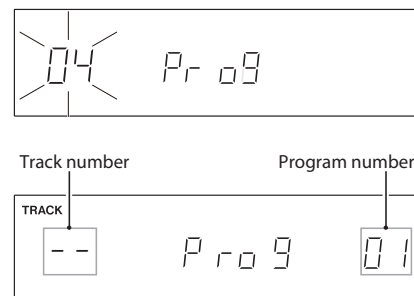
Use the following procedures to enter program setting mode and add tracks to the empty program.

#### NOTE

- You can add tracks to the program regardless of the current playback mode.
- You can add the same track to the program multiple times.
- The program setting is retained even when the power is turned off or the disc is ejected. The player can remember one program for up to 100 discs.

#### Using the front panel buttons:

- 1 When playback is stopped, select the 04 Prog menu item, and press the **TRACK SKIP/DATA** knob to enter program setting mode. The display appears as follows.



- 2 Use the number buttons or **TRACK SKIP/DATA** knob to select the number of the track that you want to add at the currently displayed program number. The selected track number blinks.
- 3 Press the **SEARCH ►► [AUTO READY]** button to add the selected track. The next program number is shown.
- 4 Repeat steps 2 and 3 to add tracks as desired.

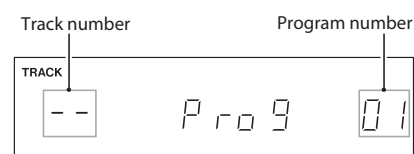
#### NOTE

After selecting a track, turning the **TRACK SKIP/DATA** knob to the right or pressing the **SEARCH ►► [AUTO READY]** button adds the track to the program. If you exit program setting mode without doing this, the track selected just before will not be added to the program.

- 5 When you are done adding tracks to the program, press the **TRACK SKIP/DATA** knob to exit program setting mode.

#### Using the remote control:

- 1 When stopped, press the **PGM** button to enter program setting mode. The display appears as follows.



- 2 Use the number buttons or SKIP **◀◀/▶▶** buttons to select the number of the track that you want to add at the currently displayed program number. The selected track number blinks.
- 3 Press the SEARCH **▶▶** button to add the selected track. The next program number is shown.
- 4 Repeat steps 2 and 3 to add tracks as desired.

### NOTE

After selecting a track, pressing the SEARCH **▶▶** button adds the track to the program. If you exit program setting mode without doing this, the track selected just before will not be added to the program.

- 5 When you are done adding to the program, press the PGM button to exit the program setting mode.

## Checking the program

When playback is stopped, follow step 1 of “Program setting mode” above to enter program setting mode and then follow the procedures below.

### Using the front panel buttons:

Use the SEARCH **◀◀/▶▶** [AUTO CUE/AUTO READY] buttons to select a program number to confirm the track that it contains. The track number is shown to the right of the program number.

### Using the remote control:

Use the SEARCH **◀◀/▶▶** buttons to select a program number to confirm the track that it contains. The track number is shown to the right of the program number.

## Editing the program

You can change the contents of the program.

When playback is stopped, follow step 1 of “Program setting mode” above to enter program setting mode and then follow the procedures below.

### ■ Changing program tracks

#### Using the front panel buttons:

- 1 Use the SEARCH **◀◀/▶▶** [AUTO CUE/AUTO READY] buttons to select the program number that you want to change.
- 2 Use the number buttons or TRACK SKIP/DATA knob to select the desired track.
- 3 Press the SEARCH **▶▶** [AUTO READY] button to confirm the change.

#### Using the remote control:

- 1 Use the SEARCH **◀◀/▶▶** buttons to select the program number that you want to change.
- 2 Use the number buttons or SKIP **◀◀/▶▶** buttons to select the desired track.
- 3 Press the SEARCH **▶▶** button to confirm the change.

### ■ Inserting tracks into the program

#### Using the front panel buttons:

- 1 Use the SEARCH **◀◀/▶▶** [AUTO CUE/AUTO READY] buttons to select the program number where you want to insert a track.
- 2 Press the SEARCH **▶▶** [AUTO READY] button while pressing and holding the SHIFT button.
- 3 Use the number buttons or the TRACK SKIP/DATA knob to select the track that you want to insert.
- 4 Press the SEARCH **▶▶** [AUTO READY] button to insert the track.

#### Using the remote control:

- 1 Use the SEARCH **◀◀/▶▶** buttons to select the program number where you want to insert a track.
- 2 Press the A.RDY/INS button.
- 3 Use the number buttons or SKIP **◀◀/▶▶** buttons to select the track that you want to insert.
- 4 Press the SEARCH **▶▶** button to insert the track.

### ■ Removing tracks from the program

#### Using the front panel buttons:

- 1 Use the SEARCH **◀◀/▶▶** [AUTO CUE/AUTO READY] buttons to select the program number of the track that you want to delete.
- 2 Press the SEARCH **◀◀** [AUTO CUE] button while pressing and holding the SHIFT button to remove the track from the program.

#### Using the remote control:

- 1 Use the SEARCH **◀◀/▶▶** buttons to select the program number of the track that you want to delete.
- 2 Press the A.CUE/DEL button to delete the track from the program.

### ■ After editing the program

Press the remote PGM button or the TRACK SKIP/DATA knob on the player to exit program setting mode.

### ■ Removing all tracks from the program

When in program setting mode, press and hold the CLEAR button on the player or the remote CLEAR button to remove all tracks from the program.

## 6 – Various Playback Functions

### Fade in/fade out playback

The player can be set to fade in at the beginning of playback and fade out when playback is stopped or paused. The fade in and fade out times, which determine how many seconds fading in and fading out takes, can be set independently. Use the 05 FADE menu item to make fade in and fade out settings. The use of this menu item differs slightly from the others. Use the following procedures with this item.

- 1 Select the 05 FADE menu item.



Press the TRACK SKIP/DATA knob to enter fade in/out setting mode. The screen appears as follows.



- 2 Press the TRACK SKIP/DATA knob or the remote ENTER button to enter fade in setting mode.



- 3 Turn the TRACK SKIP/DATA knob on the player or use the PREV and NEXT buttons on the remote to set the fade in time. The fade in time can be set between 0.5 and 10 seconds in 0.5-second increments (default value: OFF).
- 4 Press the TRACK SKIP/DATA knob on the player or the ENTER button on the remote to confirm the fade in setting and enter fade out setting mode.



- 5 Turn the TRACK SKIP/DATA knob on the player or use the PREV and NEXT buttons on the remote to set the fade out time. The fade out time can be set between 0.5 and 10 seconds in 0.5-second increments (default value: OFF).
- 6 Press the TRACK SKIP/DATA knob on the player or the ENTER button on the remote to confirm the fade out setting and exit menu mode.

The display returns to its usual appearance.

#### NOTE

- FADE appears at the bottom of the display whenever fade in or fade out is set.
- To set only the fade out time, in fade in/out setting mode step 1 above, turn the TRACK SKIP/DATA knob on the player (or press the PREV or NEXT button on the remote) until OUT blinks. Then, press the TRACK SKIP/DATA knob

on the player (or the ENTER button on the remote) to enter fade out setting mode.

- To set only the fade in time, after step 4 above, press the MENU button on the unit or on the remote to complete the setting.
- The fade in/out function settings are retained even when the power is turned off.

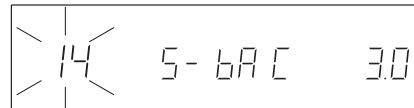
### Skip back playback

During playback, you can skip back by a preset amount of time and continue playback.

During playback, press the ► [PLAY] button on the unit or the remote control.

### Setting the skip back time

To set the skip back time, use the 14 S-BAC menu item.



Options: 0–60 seconds (0.5-second increments, default value: 3 seconds)

#### NOTE

- When the incremental play function is on, it receives priority and skip back playback is disabled when you press the ► PLAY button on the remote. Turn the incremental play function off if you want to use this function.
- Skip back playback is only possible with audio CDs. Skip back playback is not possible with data CDs.
- Skip back playback settings are retained even when the power is turned off.

### Flash start function

Up to twenty track beginnings or cue points can be pre-loaded into memory, enabling their playback to be triggered instantly.

#### Flash-loading tracks:

When tracks have been added to the program and the unit is in playback mode or program playback mode, the beginnings of the first 20 tracks in the program will be loaded into memory.

When no tracks have been added to the program, the beginnings of the first 20 tracks on the disc will be loaded into memory.

## 6 – Various Playback Functions

### Flash-loading cue points:

Set cue points are loaded into memory.

#### NOTE

- The flash start function is only possible with audio CDs. The flash start function is not possible with data CDs.
- When playing back using the flash start function, the auto-cue and auto-ready functions are disabled.

#### Using the front panel buttons:

- 1 To use a program to flash start tracks, program the tracks in advance and set the playback mode to program playback. To flash start using cue points, set the cue points in advance and turn the cue mode ON (CUE indicator appears).
- 2 Press the **FLASH** button.
- 3 While the beginnings of the tracks or cue points are being loaded into memory, the word **FLASH** blinks on the display. After loading completes, **FLASH 01-10** appears on the display, the **FLASH** indicator lights and the **▶ PLAY** indicator blinks.
- 4 Press the number button for the program number (when program set), track number (when program not set) or cue number (for cue point flash start) that you want to play.

To select numbers between 11 and 20, press the **+10** button, so that **FLASH 11-20** appears on the display, and then press the corresponding number button. Press the **+10** button again to return to **FLASH 1-10**.

#### Using the remote control:

- 1 To use a program to flash start tracks, program the tracks in advance and set the playback mode to program playback. To flash start using cue points, set the cue points in advance and turn the cue mode ON (CUE indicator appears).
- 2 Press the **FLASH** button.
- 3 While the beginnings of the tracks are being loaded into memory, the word **FLASH** blinks on the display. After loading completes, **FLASH 01-10** appears on the display, the **FLASH** indicator lights and the **▶ PLAY** indicator blinks.
- 4 Press the number button for the program number (when program set), track number (when program not set) or cue number (for cue point flash start) that you want to play.

To select numbers between 11 and 20, press the **CLEAR** button, so that **FLASH 11-20** appears on the display, and then press the corresponding number button. Press the **CLEAR** button again to return to **FLASH 1-10**.

### Exiting flash start mode

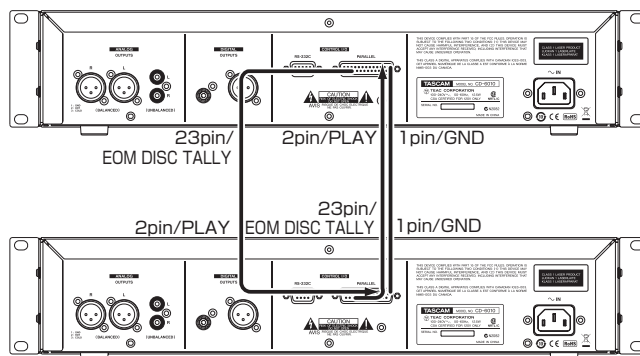
Press the **FLASH** button on the unit or the remote control. The **FLASH** indicator will become unlit.

## Relay playback

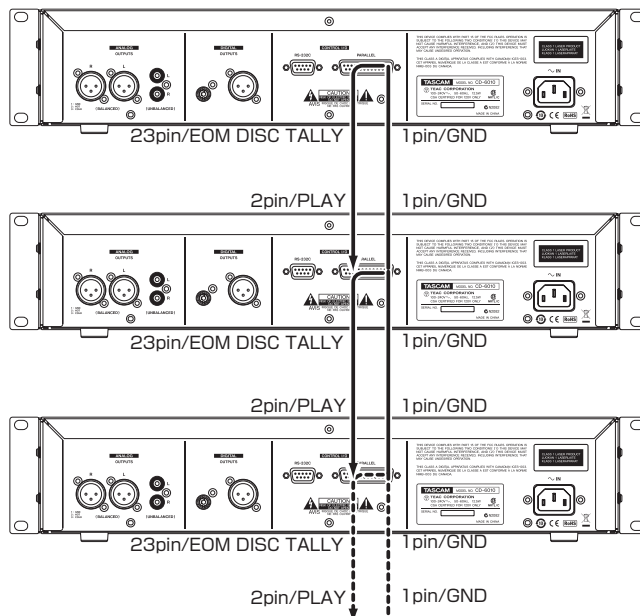
Multiple CD-6010 units can be used together and set so that when playback ends on one unit, playback can automatically start on another unit.

To do this, connect the **CONTROL I/O PARALLEL** connector "23 EOM DISC TALLY" pin on the rear panel of one unit to the **CONTROL I/O PARALLEL** connector "2 PLAY" pin on another unit with a cable and set **DISC EOM** to 0 on both units. (See "End of disc warning (DISC EOM)" on page 32.)

By connecting two CD-6010 units in both directions as shown in illustration below, alternating playback between them is possible.



By connecting three or more CD-6010 units in sequence (**CONTROL I/O PARALLEL** "2 PLAY" to **CONTROL I/O PARALLEL** "EOM DISC TALLY") as shown below, automatic playback of one unit after the other is possible.



## 7 – Other Functions

### Changing the playback time display mode

You can select the playback time that is shown on the display.

During playback or when paused, press the **DISPLAY [LOCK]** button on the player or the **DISPLAY** button on the remote. Each press of the button cycles through the three types of time display. The currently selected display mode is shown in the playback time mode display area.

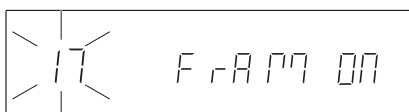
- **T.REMAIN:** total remaining time is displayed
- **REMAIN:** remaining time of the current track is displayed
- **Nothing:** elapsed time of the current track is displayed

#### NOTE

- When an audio CD is stopped, the total recording time is always shown regardless of whether or not **T.REMAIN** or **REMAIN** appears.
- For data CDs, neither the total time when stopped, nor the remaining time or total remaining time during playback are shown. (Only the number of tracks or track number appears.)
- In program playback mode, remaining time shows the time until playback of the program ends. In single playback mode, remaining time shows the remaining time in the track.
- In program playback mode, the total time shown is for the program.
- The playback time display mode setting is retained even when the power is turned off.

### Frame time display setting

You can set whether or not the frame time is shown during playback. To set the frame time display, use the **17 FRAM** menu item (default value: ON).



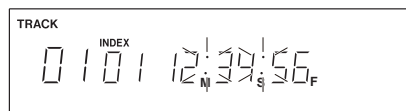
#### NOTE

The frame time display on/off setting is retained even when the power is turned off.

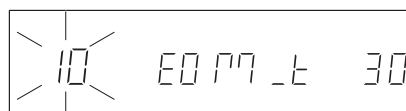
### End of track warning (TRACK EOM)

When nearing the end of a track, an end of track warning indication can be shown on the display and a "21 EOM TRACK TALLY" signal can be output from the **CONTROL I/O PARALLEL** connector. With data CDs, an end of track warning will not appear on the display. The **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal will be output as a pulse when the file playback ends.

By setting in advance the number of seconds before the track end that the warning is shown, when playback reaches that point, the ":" in the time display will begin blinking. At the same time the **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal will be output.



Use the **10 EOM\_T** menu item to set the value from among the following options.



Options: OFF, 0, 5, 10, 15, 20, 25, 30 (default value), 35

For values other than OFF, the number indicates the number of seconds before the end of the track that the warning begins. However, when set to 0, no warning will be shown on the display when track playback ends, but a "21 EOM TRACK TALLY" signal will be output from the **CONTROL I/O PARALLEL** connector as a pulse.

At the default value, 30 seconds before the end of the track, the ":" begins to blink and the **CONTROL I/O PARALLEL** "21 EOM TRACK TALLY" signal is output

#### NOTE

The TRACK EOM function setting is retained even when the power is turned off.

### End of disc warning (Disc EOM)

You can set the unit to output a "23 EOM DISC TALLY" signal from the **CONTROL I/O PARALLEL** connector when nearing the end of a disc a few seconds before it ends.

Use the **06 EOM\_D** menu item to set the time of the EOM function.

Options: OFF, 0, 5, 10, 15, 20, 25, 30 (default value), 35

For values other than OFF, the number indicates the number of seconds before the end of the disc that the warning begins. When set to 0, a "23 EOM DISC TALLY" signal will be output from the **CONTROL I/O PARALLEL** connector as a pulse when disc playback stops.

#### NOTE

The DISC EOM function setting is retained even when the power is turned off.

## Interval time setting

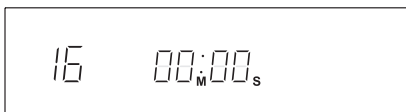
The player can be set to wait for a specified time (interval time) after completing playback of one track before starting playback of the next track.

To make the interval time setting, use the 16 INTVAL menu item.

- 1 Select the 16 INTVAL menu item.



- 2 Press the TRACK SKIP/DATA knob to enter interval time setting mode. The screen appears as follows.



- 3 Turn the TRACK SKIP/DATA knob to set the interval time, and press the TRACK SKIP/DATA knob to confirm the setting.

Setting range: 0–5 minutes (10-second increments, default value: 0 seconds)

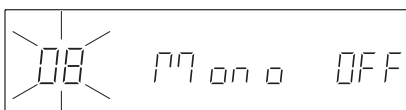
**NOTE**

The interval time setting is retained even when the power is turned off.

## Outputting in mono

This player can output analog and digital signals in mono.

To make the player output in mono, set the 08 Mono menu item to ON (default value: OFF).



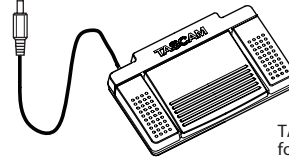
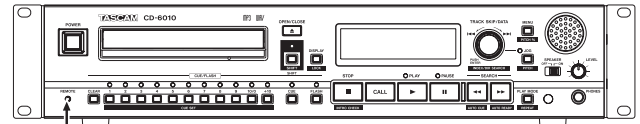
When mono output is on, MONO appears at the bottom of the display.

**NOTE**

The mono output on/off setting is retained even when the power is turned off.

## Controlling the player with a footswitch

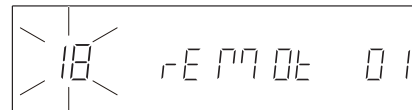
You can connect a TASCAM RC-3F footswitch (sold separately) to the REMOTE jack on the front panel and use it to control the player.



TASCAM RC-3F foot switch (sold separately)

## Setting the footswitch

To set the footswitch, use the 18 REMOT menu item to assign the functions to the switch controls (pedals).



Options: OFF, 1 (default value), 2, 3, 4

## Using the footswitch

When you press the controls (pedals) on the footswitch, they function according to the 18 REMOT setting.

## Footswitch mode settings

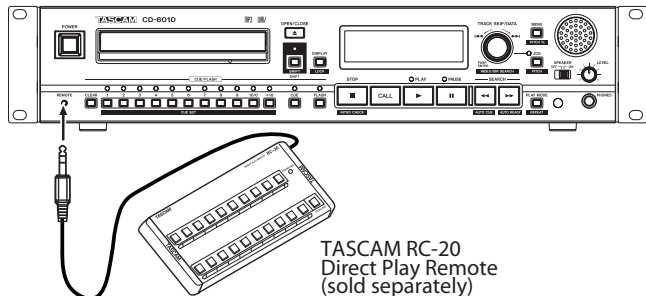
The functions of the controls in each mode are as follows.

MODE	Footswitch controls		
	L (brief press)	C (brief press)	R (brief press)
	L (long press)	C (long press)	R (long press)
1	⏮	PLAY/PAUSE	⏭
	⏪	STOP	⏩
2	SKIP BACK	PLAY/PAUSE	CALL
	⏪	STOP	⏩
3	PITCH (-)	PLAY/PAUSE	PITCH (+)
	PITCH (-) continuous	STOP	PITCH (+) continuous
4	PAUSE	PLAY	STOP
	---	---	---

## 7 – Other Functions

### Controlling the player with a direct playback remote

You can connect a TASCAM RC-20 direct play remote (sold separately) to the REMOTE jack on the front panel to use the unit's direct playback function.

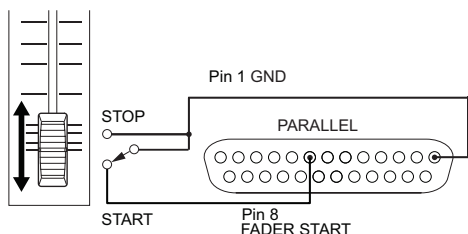


### Fader and event start

#### Fader start and stop

By connecting an external fader switch to the **CONTROL I/O PARALLEL** connector, the player can be started and stopped using a fader.

Connect the fader switch to the **CONTROL I/O PARALLEL** connector as shown below.



For details about using the **CONTROL I/O PARALLEL** connector, see "Using the parallel connector" on page 35.

#### Event start

When stopped or paused, playback can be started by inputting a one-shot pulse signal from outside. Input a one-shot pulse (active low, 30 ms or longer) through the "2 PLAY" pin of the **CONTROL I/O PARALLEL** connector.

### Using the RS-232C connector

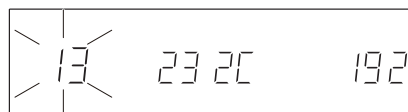
The **CONTROL I/O RS-232C** connector (D-sub 9-pin, RS-232C compliant) can be used for serial control of this unit by a computer or other external device.

#### Setting the baud rate

Use the **13 232C** menu item to set the baud rate.

Select **96** (9600 bps, default value), **192** (19200 bps) or **384** (38400 bps).

For further details, please contact TASCAM customer support.



#### NOTE

The baud rate setting is retained even when the power is turned off.

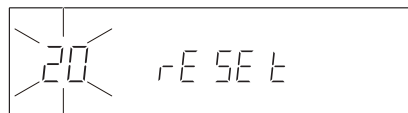
### Restoring factory default settings

You can restore the unit to factory default settings that are stored in the backup memory. The following default settings are stored in the backup memory

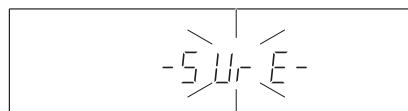
- Playback mode
- Playback time display mode
- Auto-ready function on/off
- Auto-cue function on/off
- Repeat function on/off
- Various menu settings (See "Menu structure" on page 19.)

#### To restore all settings to their factory defaults

- 1 Select the **20 RESET** menu item.



- 2 Press the **TRACK SKIP/DATA** knob.  
-SURE- blinks on the display.



- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to restore the settings to the factory defaults stored in the backup memory and exit menu mode.

The display returns to ordinary disc and track information.

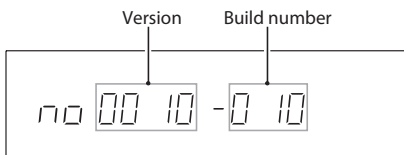
## Checking the firmware version

To check the firmware version, use the 21 INFO menu item.

- 1 Select the 21 INFO menu item.



- 2 Press the TRACK SKIP/DATA knob on the main unit or the ENTER button on the remote control to show the system firmware version on the display.

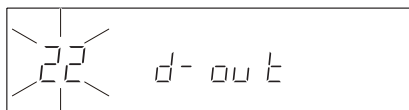


- 3 Press the TRACK SKIP/DATA knob on the main unit or the ENTER button on the remote control again to return to menu item selection.

## Digital output format setting

You can set the format of the digital signal output from the COAXIAL and XLR DIGITAL OUTPUTS. You can set the output format using the 22 D-OUT menu item. The digital signal output format options are as follows (default value: AES).

- SPD S/PDIF (consumer)
- AES AES/EBU with U bit (professional)
- AE\_ AES/EBU without U bit (professional)



### NOTE

The digital output format setting is retained even when the power is turned off.

## Analog output attenuation

You can set the unit so that the analog output level is attenuated by -4 dB. Set this appropriately for the equipment connected to the outputs.

Use the 19 ATT menu item to set whether or not -4dB attenuation is used or not (default value: OFF).

### NOTE

The attenuation setting is retained even when the power is turned off.

## Using the parallel connector

Using the CONTROL I/O PARALLEL connector, you can use external parallel control to operate this unit.

Pin No.	Function (Pin 14 = H or Open)	Function (Pin 14 = L)	IN/OUT
1	GND	GND	-
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX/DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [▶▶]	FLASH 4	In
6	TRACK SKIP REV [◀◀]	FLASH 5	In
7	INDEX/DIR SEARCH REV	STOP/LOAD	In
8	FADER START/STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT*	REMOTE SELECT*	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [▶▶]	FLASH 8	In
18	SEARCH REV [◀◀]	FLASH 9	In
19	(Reserved)	FLASH 10	In
20	(Reserved)	FLASH PAGE**	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved, fixed high)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved, fixed low)	Out
25	+5V*	+5V*	-

IN: external command reception (operates active low, when ground 30 ms or longer)

OUT: transport status display signal by open drain (20V maximum voltage, 35mA maximum current, 10Ω impedance)

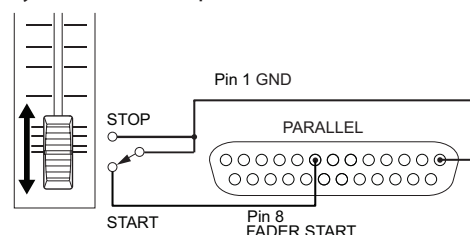
\*When pin 14 (REMOTE SELECT) is high or open, the functions in the left column are active and ordinary parallel control can be used. When set to low, the functions in the right column are active and they can be used as flash start keys.

\*\*When pin 14 (REMOTE SELECT) is low, the high/low status of pin 20 (FLASH PAGE) determines the track assignments as shown below.

\*\*\*100mA maximum supplied current

#14	#20	Flash start tracks
Low	High	1-10
Low	Low	11-20

The following connection example shows playback control by fader start/stop.



# 8 – Troubleshooting

Please check the following items if the unit is not functioning properly. If you are still unable to resolve the problem please contact the retailer where you purchased the unit or TASCAM customer support.

## ■ Power does not turn on

Make sure that the power plug is firmly inserted.

## ■ Unit cannot be controlled from the front panel

Make sure that the panel lock function is not on.

## ■ Unit cannot be controlled with the remote control.

Confirm that batteries are in the remote control and that they have a charge.

## ■ No sound

Confirm the unit's connections to the monitoring system and check the volume of the amplifier.

## ■ CD cannot be played back

- If it is a data CD, containing MP3 files, confirm that they use a bit rate that this unit can handle.
- Confirm that the disc is not scratched or dirty.

## ■ Noise is heard

Check whether a connection cable might have a bad connection.

## 9 – Error Messages

When one of the following error messages appears, refer to the response below and resolve the cause. If you are still unable to resolve the problem please contact TASCAM customer support.

Message	Meaning	Response
Err01	TOC Read Error	Clean or change the disc.
Err09	Flash ROM Error	If one of these errors appears, turn the power off and back on. If you are unable to turn the power off, disconnect the power cord.
Err10	SDRAM Error	
Err13	SYSTEM Error	

# 10 – Specifications

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## Media and formats

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### Device type

CD player

### Compatible discs

Compact discs (12cm/8cm, including CD-R discs)

### Playable disc types

CD-A, CD-ROM (ISO9660 LEVEL 1/2/JOLIET format)

### Playable file formats

Audio CD (CD-DA), MP3 (MPEG Audio Layer III), WAV

### MP3 playback specifications

Audio Modes: stereo/mono

Sampling Frequency: 32 kHz/44.1 kHz/48 kHz

Bit Rate: 32 kbps–320 kbps and VBR

### WAV playback specifications

Sampling Frequency: 32 kHz/44.1 kHz/48 kHz

Sampling Bit Rate: 16 bit

### Audio CD playback specifications

Sampling Frequency: 44.1 kHz

Sampling Bit Rate: 16 bit

Number of Channels: 2

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## Analog audio output

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### Analog outputs (unbalanced)

Connector: RCA pin jacks

Output impedance: 200  $\Omega$

Standard output level: –10 dBV (0.32 Vrms)

Maximum output level: +6 dBV (2.0 Vrms)

### Analog outputs (balanced)

Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)

Output impedance: 100  $\Omega$

Standard Output level: +4 dBu (1.23 Vrms)

Maximum Output level: +24 dBu (12.28 Vrms)

### PHONES connector

Connector: 6.3mm (1/4") standard stereo jack

Maximum output level: 45 mW + 45 mW or more  
(THD+N 0.1% or less, 32 $\Omega$  load)

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## Digital audio output

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### Digital output connector (COAXIAL)

Connector: RCA pin jack

Supported signal formats: IEC 60958-3 standard for consumer use, IEC 60958-4 for professional use

Output impedance: 75  $\Omega$

Output level: 0.5 Vp-p

### Digital output connector (XLR)

Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)

Supported signal formats: IEC 60958-3 standard for consumer use, IEC 60958-4 for professional use

Output impedance: 110  $\Omega$

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## Control input and output

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### REMOTE connector

Connector: 2.5mm TRS jack

### RS-232C connector

Connector: D-sub 9-pin (female, inch standard)

### CONTROL I/O PARALLEL connector

Connector: D-sub 25-pin (female, inch standard)

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## Audio performance

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### Frequency response

20 Hz–20 kHz:  $\pm 0.5$  dB (JEITA)

### S/N ratio

95 dB or more (JEITA)

### Dynamic range

95 dB or more (JEITA)

### Distortion

0.005% or less (JEITA)

### Channel separation

95 dB or more (1 kHz, JEITA)

## Backup memory

The following settings are backed up even when the power is turned off.

- Playback mode
- Playback time display mode
- Auto-ready function on/off
- Auto-cue function on/off
- Cue settings
- Repeat function on/off
- Various menu settings

## General

### Power supply

AC 100-240 V, 50-60 Hz

### Power consumption

12.5 W

### Dimensions (W x H x D)

483 x 94 x 306 mm

### Weight

4.9 kg

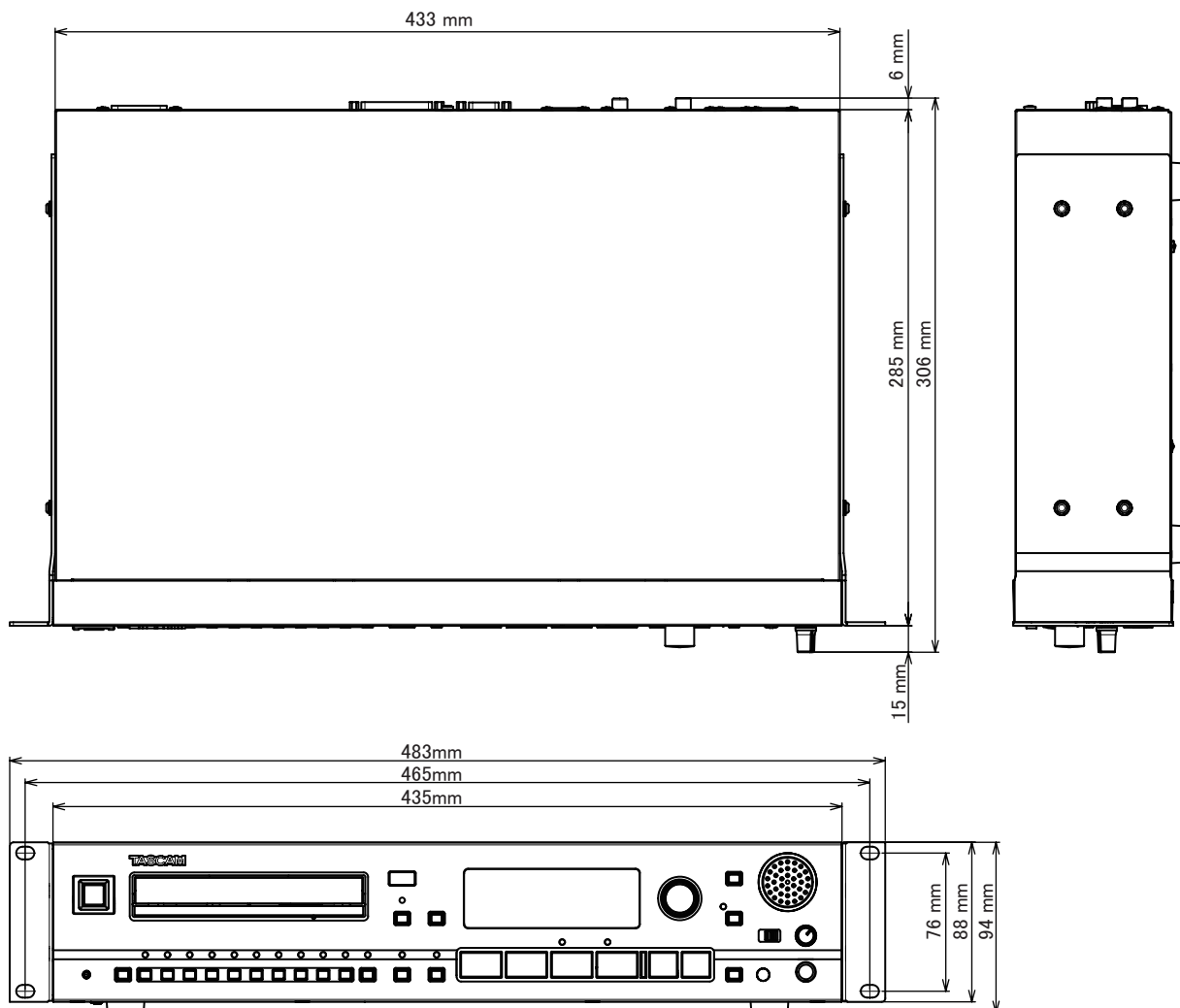
### Operating temperature range

5°–35° C

### Installation angle

15° or less

## Dimensional drawings



- Illustrations in this manual might differ from the actual product.
- In order to improve the product, specifications and appearance could be changed without prior notice.

# TASCAM

# CD-6010

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## ファームウェアV1.20の追加機能

### フェールセーフ機能の設定

フェーダースタートかつ再生中の場合に、本体およびリモコンのボタン操作を無効にするフェールセーフ機能を追加しました。

フェールセーフ機能の設定は、メニュー番号 **"23 FSAFE"** で設定します。

#### 選択肢：

- OFF** (初期値) : 無効になるボタンはありません
- 01** : **DISPLAY**、**STOP**、**OPEN/CLOSE**ボタン以外が無効になります。
- 02** : **DISPLAY**ボタン以外が無効になります。

### ディスク読み込み後の状態設定

ディスク読み込み後、および再生終了後の本体の状態を設定する機能を追加しました。

ディスク読み込み後の状態設定は、メニュー番号 **"24 CLOSE"** で設定します。

#### 選択肢：

- STP** (初期値) : ディスク読み込み後、および再生終了後は停止になります。
- PS** : ディスク読み込み後、および再生終了後は一時停止になります。

## New functions in firmware V1.20

### Failsafe function settings

A failsafe function, which disables the buttons on the main unit and the remote control when using fader start and during playback, has been added. Set the failsafe function using the **23 FSAFE** menu item.

#### Setting options

- OFF** (default value): No buttons are disabled.
- 01:** All buttons except the **DISPLAY**, **STOP** and **OPEN/CLOSE** buttons are disabled.
- 02:** All buttons except the **DISPLAY** button are disabled.

### Settings for unit status after disc loading

A function has been added that lets you to set the status of the unit after disc loading as well as when playback completes.

Set the unit status after disc loading using the **24 CLOSE** menu item.

#### Setting options

- STP** (default value): The unit stops after a disc is loaded as well as when playback completes.
- PS:** The unit pauses after a disc is loaded as well as when playback completes.

## Nuevas funciones añadidas en la versión de firmware V1.20

### Ajustes de la función Failsafe

Hemos añadido una función failsafe que desactiva los botones de la unidad principal y del mando a distancia cuando esté usando el disparo por fader y durante la reproducción. Ajuste esta función failsafe usando el elemento de menú **23 FSAFE**.

#### Opciones de ajuste

- OFF** (por defecto): Los botones no son desactivados.
- 01:** Todos los botones son desactivados excepto **DISPLAY**, **STOP** y **OPEN/CLOSE**.
- 02:** Todos los botones son desactivados excepto **DISPLAY**.

### Ajustes del estado de la unidad tras la carga de un disco

Hemos añadido una función que le permite determinar el estado de la unidad después de la carga de un disco, así como cuando termina la reproducción.

Ajuste el estado de la unidad después de la carga del disco usando el elemento de menú **24 CLOSE**.

#### Opciones de ajuste

- STP** (por defecto): La unidad se detiene después de la carga del disco así como una vez que la reproducción termina.
- PS:** La unidad queda en pausa después de la carga del disco y después de terminar la reproducción.

## Neue Funktionen in Firmware-Version 1.20

### Einstellungen für den ausfallsicheren Betrieb

Das Gerät verfügt nun über eine Fail-Safe-Funktion, um das versehentliche Betätigen von Tasten am Gerät oder der Fernbedienung während des Faderstart-Betriebs und während der Wiedergabe zu verhindern. Die Einstellungen für diese Fail-Safe-Funktion nehmen Sie im Menü unter 23 FS SAFE vor.

Auswahlmöglichkeiten

- OFF (Voreinstellung): Tastensperre ausgeschaltet
- 01: Alle Tasten außer **DISPLAY**, **STOP** und **OPEN/CLOSE** sind deaktiviert.
- 02: Alle Tasten außer **DISPLAY** sind deaktiviert.

### Gerätezustand nach dem Laden einer CD

Sie können nun festlegen, welchen Zustand das Gerät nach dem Laden einer CD und am Ende der Wiedergabe annimmt.

Die Einstellungen dafür nehmen Sie im Menü unter 24 CLOSE vor.

Auswahlmöglichkeiten

- STP (Voreinstellung): Das Gerät stoppt nach dem Laden einer CD und am Ende der Wiedergabe.
- PS: Das Gerät schaltet nach dem Laden einer CD und am Ende der Wiedergabe auf Pause.

## Nuove funzioni del firmware V1.20

### Impostazioni della funzione Failsafe

È stata aggiunta una funzione Failsafe (di sicurezza) che disattiva i pulsanti dell'unità principale e del telecomando quando si utilizzano Fader Start e durante la riproduzione. Impostare la funzione Failsafe tramite la voce di menu 23 FS SAFE.

Opzioni di impostazione

- OFF (valore di default): nessun pulsante disabilitato.
- 01: sono disabilitati tutti i pulsanti tranne i pulsanti **DISPLAY**, **STOP** e **OPEN/CLOSE**.
- 02: sono disabilitati tutti i pulsanti tranne il pulsante **DISPLAY**.

### Impostazioni per lo stato dell'unità dopo il caricamento del disco

È stata aggiunta una funzione che permette di impostare lo stato della macchina dopo il caricamento del disco, così come al termine della riproduzione.

Impostare lo stato di unità dopo il caricamento del disco tramite la voce di menu 24 CLOSE.

Opzioni di impostazione

- STP (valore di default): L'unità si ferma dopo aver caricato un disco, così come quando la riproduzione termina.
- PS: L'unità si mette in pausa dopo aver caricato un disco, così come quando la riproduzione termina.

## Nouvelles fonctions du firmware V1.20

### Réglages de la fonction de sécurité intégrée

Une fonction de sécurité intégrée (« Failsafe »), qui désactive les touches de l'unité principale et de la télécommande quand on utilise le démarrage au fader et durant la lecture, a été ajoutée. Réglez la fonction de sécurité intégrée au moyen de la rubrique de menu 23 FS SAFE.

Options de réglage

- OFF (par défaut) : Aucune touche n'est désactivée.
- 01 : Toutes les touches sauf les touches **DISPLAY**, **STOP** et **OPEN/CLOSE** sont désactivées.
- 02 : Toutes les touches sauf la touche **DISPLAY** sont désactivées.

### Réglages de statut de l'unité après chargement d'un disque

Une fonction a été ajoutée pour vous permettre de choisir le statut de l'unité après le chargement d'un disque ainsi qu'une fois la lecture terminée.

Réglez le statut de l'unité après chargement d'un disque au moyen de la rubrique de menu 24 CLOSE.

Options de réglage

- STP (par défaut) : L'unité s'arrête après chargement d'un disque ainsi qu'une fois la lecture terminée.
- PS : L'unité se met en pause après chargement d'un disque ainsi qu'une fois la lecture terminée.

## ファームウェアV1.20の追加機能

### フェールセーフ機能の設定

フェーダースタートかつ再生中の場合に、本体およびリモコンのボタン操作を無効にするフェールセーフ機能を追加しました。

フェールセーフ機能の設定は、メニュー番号 **"23 FSAFE"** で設定します。

#### 選択肢：

- OFF (初期値) : 無効になるボタンはありません
- 01 : **DISPLAY**、**STOP**、**OPEN/CLOSE** ボタン以外が無効になります。
- 02 : **DISPLAY** ボタン以外が無効になります。

### ディスク読み込み後の状態設定

ディスク読み込み後、および再生終了後の本体の状態を設定する機能を追加しました。

ディスク読み込み後の状態設定は、メニュー番号 **"24 CLOSE"** で設定します。

#### 選択肢：

- STP (初期値) : ディスク読み込み後、および再生終了後は停止になります。
- PS : ディスク読み込み後、および再生終了後は一時停止になります。

## New functions in firmware V1.20

### Failsafe function settings

A failsafe function, which disables the buttons on the main unit and the remote control when using fader start and during playback, has been added. Set the failsafe function using the **23 FSAFE** menu item.

#### Setting options

- OFF (default value): No buttons are disabled.
- 01: All buttons except the **DISPLAY**, **STOP** and **OPEN/CLOSE** buttons are disabled.
- 02: All buttons except the **DISPLAY** button are disabled.

### Settings for unit status after disc loading

A function has been added that lets you to set the status of the unit after disc loading as well as when playback completes.

Set the unit status after disc loading using the **24 CLOSE** menu item.

#### Setting options

- STP (default value): The unit stops after a disc is loaded as well as when playback completes.
- PS: The unit pauses after a disc is loaded as well as when playback completes.

## Nuevas funciones añadidas en la versión de firmware V1.20

### Ajustes de la función Failsafe

Hemos añadido una función failsafe que desactiva los botones de la unidad principal y del mando a distancia cuando esté usando el disparo por fader y durante la reproducción. Ajuste esta función failsafe usando el elemento de menú **23 FSAFE**.

#### Opciones de ajuste

- OFF (por defecto): Los botones no son desactivados.
- 01: Todos los botones son desactivados excepto **DISPLAY**, **STOP** y **OPEN/CLOSE**.
- 02: Todos los botones son desactivados excepto **DISPLAY**.

### Ajustes del estado de la unidad tras la carga de un disco

Hemos añadido una función que le permite determinar el estado de la unidad después de la carga de un disco, así como cuando termina la reproducción.

Ajuste el estado de la unidad después de la carga del disco usando el elemento de menú **24 CLOSE**.

#### Opciones de ajuste

- STP (por defecto): La unidad se detiene después de la carga del disco así como una vez que la reproducción termina.
- PS: La unidad queda en pausa después de la carga del disco y después de terminar la reproducción.

## Neue Funktionen in Firmware-Version 1.20

### Einstellungen für den ausfallsicheren Betrieb

Das Gerät verfügt nun über eine Fail-Safe-Funktion, um das versehentliche Betätigen von Tasten am Gerät oder der Fernbedienung während des Faderstart-Betriebs und während der Wiedergabe zu verhindern. Die Einstellungen für diese Fail-Safe-Funktion nehmen Sie im Menü unter 23 FS SAFE vor.

Auswahlmöglichkeiten

- OFF (Voreinstellung): Tastensperre ausgeschaltet
- 01: Alle Tasten außer **DISPLAY**, **STOP** und **OPEN/CLOSE** sind deaktiviert.
- 02: Alle Tasten außer **DISPLAY** sind deaktiviert.

### Gerätezustand nach dem Laden einer CD

Sie können nun festlegen, welchen Zustand das Gerät nach dem Laden einer CD und am Ende der Wiedergabe annimmt.

Die Einstellungen dafür nehmen Sie im Menü unter 24 CLOSE vor.

Auswahlmöglichkeiten

- STP (Voreinstellung): Das Gerät stoppt nach dem Laden einer CD und am Ende der Wiedergabe.
- PS: Das Gerät schaltet nach dem Laden einer CD und am Ende der Wiedergabe auf Pause.

## Nuove funzioni del firmware V1.20

### Impostazioni della funzione Failsafe

È stata aggiunta una funzione Failsafe (di sicurezza) che disattiva i pulsanti dell'unità principale e del telecomando quando si utilizzano Fader Start e durante la riproduzione. Impostare la funzione Failsafe tramite la voce di menu 23 FS SAFE.

Opzioni di impostazione

- OFF (valore di default): nessun pulsante disabilitato.
- 01: sono disabilitati tutti i pulsanti tranne i pulsanti **DISPLAY**, **STOP** e **OPEN/CLOSE**.
- 02: sono disabilitati tutti i pulsanti tranne il pulsante **DISPLAY**.

### Impostazioni per lo stato dell'unità dopo il caricamento del disco

È stata aggiunta una funzione che permette di impostare lo stato della macchina dopo il caricamento del disco, così come al termine della riproduzione.

Impostare lo stato di unità dopo il caricamento del disco tramite la voce di menu 24 CLOSE.

Opzioni di impostazione

- STP (valore di default): L'unità si ferma dopo aver caricato un disco, così come quando la riproduzione termina.
- PS: L'unità si mette in pausa dopo aver caricato un disco, così come quando la riproduzione termina.

## Nouvelles fonctions du firmware V1.20

### Réglages de la fonction de sécurité intégrée

Une fonction de sécurité intégrée (« Failsafe »), qui désactive les touches de l'unité principale et de la télécommande quand on utilise le démarrage au fader et durant la lecture, a été ajoutée. Réglez la fonction de sécurité intégrée au moyen de la rubrique de menu 23 FS SAFE.

Options de réglage

- OFF (par défaut) : Aucune touche n'est désactivée.
- 01 : Toutes les touches sauf les touches **DISPLAY**, **STOP** et **OPEN/CLOSE** sont désactivées.
- 02 : Toutes les touches sauf la touche **DISPLAY** sont désactivées.

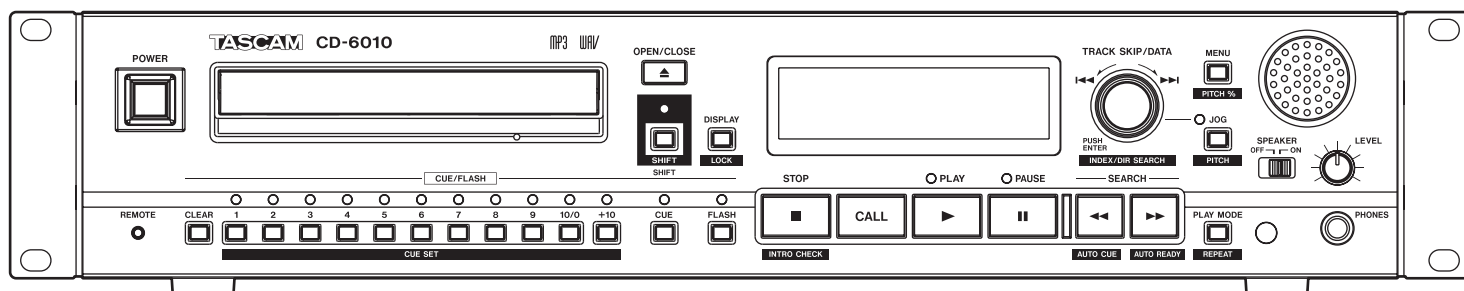
### Réglages de statut de l'unité après chargement d'un disque

Une fonction a été ajoutée pour vous permettre de choisir le statut de l'unité après le chargement d'un disque ainsi qu'une fois la lecture terminée.

Réglez le statut de l'unité après chargement d'un disque au moyen de la rubrique de menu 24 CLOSE.

Options de réglage

- STP (par défaut) : L'unité s'arrête après chargement d'un disque ainsi qu'une fois la lecture terminée.
- PS : L'unité se met en pause après chargement d'un disque ainsi qu'une fois la lecture terminée.



## CD Player

# CD-6010

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#### INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

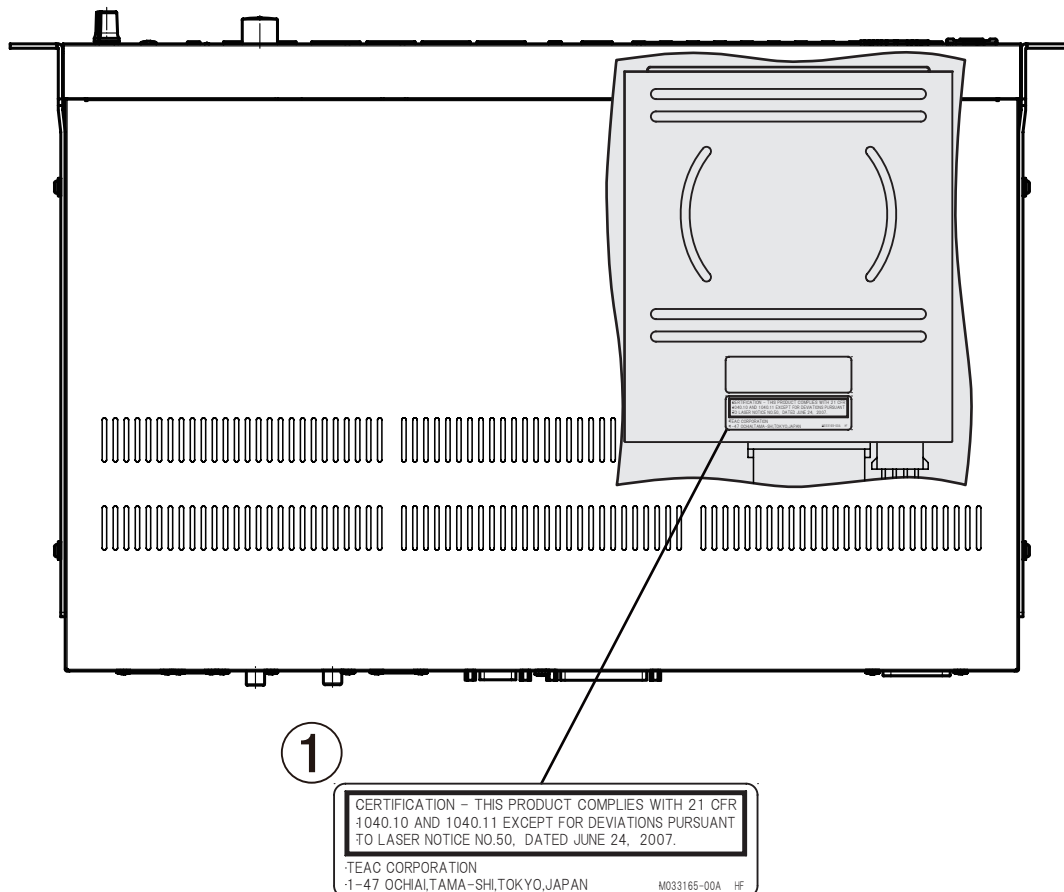
# 1. SAFETY INFORMATION

## 安全規格

### ● CAUTIONS ABOUT LASER RADIATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.



### ● Cautions

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.

	Type	: HOF-1501XB
	Manufacturer	: Hitachi Media Electronics
<b>Optical pickup :</b>	Laser output	: Less than 0.5 mW on the objective lens
	Wavelength	: 785 nm ±22nm
	Standard	: IEC60825-1 : 2007

### ● CAUTION for products that use replaceable lithium batteries:

There is danger of explosion if a battery is replaced with an incorrect type of battery.

Replace only with the same or equivalent type

## 2. Specifications

### 仕様

#### Media and formats

##### Device type

CD player

##### Compatible discs

Compact discs (12cm/8cm, including CD-R discs)

##### Playable disc types

CD-A, CD-ROM (ISO9660 LEVEL 1/2/JOLIET format)

##### Playable file formats

Audio CD (CD-DA), MP3 (MPEG Audio Layer III), WAV

##### MP3 playback specifications

Audio Modes : stereo/mono  
Sampling Frequency : 32 kHz/44.1 kHz/48 kHz  
Bit Rate : 32 kbps~320 kbps and VBR

##### WAV playback specifications

Sampling Frequency : 32 kHz/44.1 kHz/48 kHz  
Sampling Bit Rate : 16 bit

##### Audio CD playback specifications

Sampling Frequency : 44.1 kHz  
Sampling Bit Rate : 16 bit  
Number of Channels : 2

#### Analog audio output

##### Analog outputs connector (UNBALANCED)

Connector : RCA pin jacks  
Output impedance : 200 Ω  
Standard output level : -10 dBV (0.32 Vrms)  
Maximum output level : +6 dBV (2.0 Vrms)

##### Analog outputs connector (BALANCED)

Connector : XLR-3-32 (1: GND, 2: HOT, 3: COLD)  
Output impedance : 100 Ω  
Standard Output level : +4 dBu (1.23 Vrms)  
Maximum Output level : +24 dBu (12.28 Vrms)

##### PHONES connector

Connector : 6.3mm (1/4") standard stereo jack  
Output impedance : 100 Ω  
Maximum output level : 45 mW + 45 mW or more  
(THD+N 0.1% or less, 32Ω load)

#### Digital audio output

##### Digital output connector (COAXIAL)

Connector : RCA pin jack  
Supported signal formats: IEC 60958-3 standard for consumer use  
IEC 60958-4 for professional use  
Output impedance : 75 Ω  
Output level : 0.5Vp-p

##### Digital output connector (XLR)

Connector : XLR-3-32 (1: GND, 2: HOT, 3: COLD)  
Supported signal formats: IEC 60958-3 standard for consumer use  
IEC 60958-4 for professional use  
Output impedance : 110 Ω

#### 定格

##### 形式

CDプレーヤー

##### 使用ディスク

コンパクトディスク (12cm / 8cm、CD-R DISC 対応のみ)

##### 再生可能ディスク

CD-DA、CD-ROM ISO9660 LEVEL 1/2/JOLIET format

##### 再生可能フォーマット

オーディオCD (CD-DA)、MPEG Audio Layer III (MP3)、WAV

##### MP3再生仕様

フォーマット : STEREO/MONO  
サンプリング周波数: 32kHz/44.1kHz/48kHz  
ビットレート : 32kbps ~ 320kbps、およびVBR

##### WAV再生仕様

サンプリング周波数: 32kHz/44.1kHz/48kHz  
量子化ビット数 : 16bit

##### オーディオCD再生仕様

サンプリング周波数: 44.1kHz  
量子化ビット数 : 16bit  
チャンネル数 : 2チャンネル

#### アナログオーディオ出力定格

##### ANALOG OUTPUTS (UNBALANCED) 端子

コネクター : RCA ピンジャック  
出カインピーダンス: 200Ω  
規定出力レベル : -10dBV (0.32Vrms)  
最大出力レベル : +6dBV (2.0Vrms)

##### ANALOG OUTPUTS (BALANCED) 端子

コネクター : XLR-3-32 (1: GND、2: HOT、3: COLD)  
出カインピーダンス: 100Ω  
規定出力レベル : +4dBu (1.23Vrms)  
最大出力レベル : +24dBu (12.28Vrms)

##### PHONES 端子

コネクター : 6.3mm (1/4") ステレオ標準ジャック  
出カインピーダンス: 100Ω  
最大出力レベル : 45mW + 45mW以上  
(THD+N 0.1%以下、32Ω 負荷)

#### デジタルオーディオ出力定格

##### DIGITAL OUTPUTS 端子 (COAXIAL)

コネクター : RCA ピンジャック  
対応信号フォーマット: IEC60958-3 民生用規格準拠、  
IEC60958-4 業務用規格準拠  
出カインピーダンス : 75Ω  
出力レベル : 0.5Vp-p

##### DIGITAL OUTPUTS 端子 (XLR)

コネクター : XLR-3-32 (1: GND、2: HOT、3: COLD)  
対応信号フォーマット: IEC60958-3 民生用規格準拠、  
IEC60958-4 業務用規格準拠  
出カインピーダンス : 110Ω

## Control inputs and outputs

### REMOTE connector (for RC-3F and RC-20)

Connector : 2.5mm TRS jack

### RS-232C CONNECTOR

Communication protocol : Complies with RS-232C protocol specification 1.00

Connector : 9-pin D-sub (female, inch standard)

### CONTROL I/O PARALLEL connector (for RC-SS20)

Connector : D-sub 25-pin (female, inch standard)

Maximum input voltage : +5.5 V

High level minimum input voltage : +3.75 V

Low level maximum input voltage : +1.25 V

Output format : open drain (withstand voltage 50 V, maximum 50 mA)

Low level maximum output voltage : 0.5 V

+5V power maximum supplied current : 100 mA

## Audio performance

### Frequency response

20 Hz – 20 kHz:  $\pm 0.5$  dB

### Distortion

0.005% or less (JEITA\*)

### S/N ratio

95 dB or more (JEITA)

### Dynamic range

95 dB or more (JEITA)

### Channel crosstalk

95 dB or more (1 kHz, JEITA)

\* : JEITA CP-2150 standards.

## Backup memory

The following settings are backed up even when the power is turned off.

- Playback mode
- Playback time LCD mode
- Auto-ready function on/off
- Auto-cue function on/off
- Cue settings
- Repeat function on/off
- Various menu settings
  - Original key, Tray lock, Auto-cue level, Program
  - Fade in/out playback, DISC EOM time LCD
  - Power on play, Mono output
  - Resume, TRACK EOM time LCD
  - Incremental play, Pitch control steps, RS232C Baud rate
  - Skip back, Remote control reception, Silent interval between tracks
  - Frame time LCD, Footswitch mode, Analog attenuation
  - Restore unit to factory defaults, Digital output format

## コントロール入出力定格

### REMOTE 端子 (TASCAM : RC-3F、RC-20用)

コネクタ : 2.5mm TRS ジャック

### RS-232C 端子

通信仕様 : RS-232C プロトコル仕様 1.00 準拠

コネクタ : D-sub 9ピン (メス型、インチ規格)

### CONTROL I/O PARALLEL 端子 (TASCAM : RC-SS20用)

コネクタ : D-sub 25ピン (メス型、インチ規格)

最大入力電圧 : +5.5V

ハイレベル最小入力電圧 : +3.75V

ローレベル最大入力電圧 : +1.25V

出力形式 : オープンドレイン (耐圧20V、最大35mA、インピーダンス 10 $\Omega$ )

ローレベル最大出力電圧 : 0.5V

+5V電源 最大供給電流 : 100mA

## オーディオ性能

### 周波数特性

20Hz-20kHz :  $\pm 0.5$  dB (JEITA\*)

### 歪率

0.005%以下 (JEITA\*)

### S/N比

95dB以上 (JEITA\*)

### ダイナミックレンジ

95dB以上 (JEITA\*)

### チャンネル間クロストーク

95dB (1kHz、JEITA\*)

\* : JEITA CP-2150基準

## バックアップメモリー

本機は、電源をオフにしても、以下の設定をバックアップします。

- 再生モード設定
- 再生時間表示モード設定
- オートレディ機能のオン/オフ設定
- オートキュー機能のオン/オフ設定
- キュー設定
- リピート機能のオン/オフ設定
- 各メニュー設定
  - キーオリジナル機能設定・トレーロック機能設定
  - オートキューレベル設定・プログラム設定
  - フェードイン/アウト再生設定・DISC EOM タイム表示設定
  - パワーオンプレー機能設定・モノラル出力設定
  - レジューム機能設定・TRACK EOM タイム表示設定
  - インクリメンタルプレー設定・ピッチステップ設定
  - RS232C ボーレート設定・スキップバック再生設定
  - リモコン受信設定・インターバルタイム設定
  - フレーム時間表示設定・フットスイッチモード設定
  - アッテネーション設定・ファクトリープリセット値
  - デジタル出力フォーマット設定

**General****Power**

AC 100-240 V, 50-60 Hz

**Power consumption**

12.5 W

**Dimensions**

483 x 94 x 306 mm (W x H x D)

**Weight**

4.9 kg

**Operating temperature range**

5-35 °C

**Installation angle**

15° or less

**一般****電源**

AC100-240V、50-60Hz

**消費電力**

12.5W

**外形寸法**

483 x 94 x 306mm (幅 x 高さ x 奥行き)

**質量**

4.9kg

**動作温度**

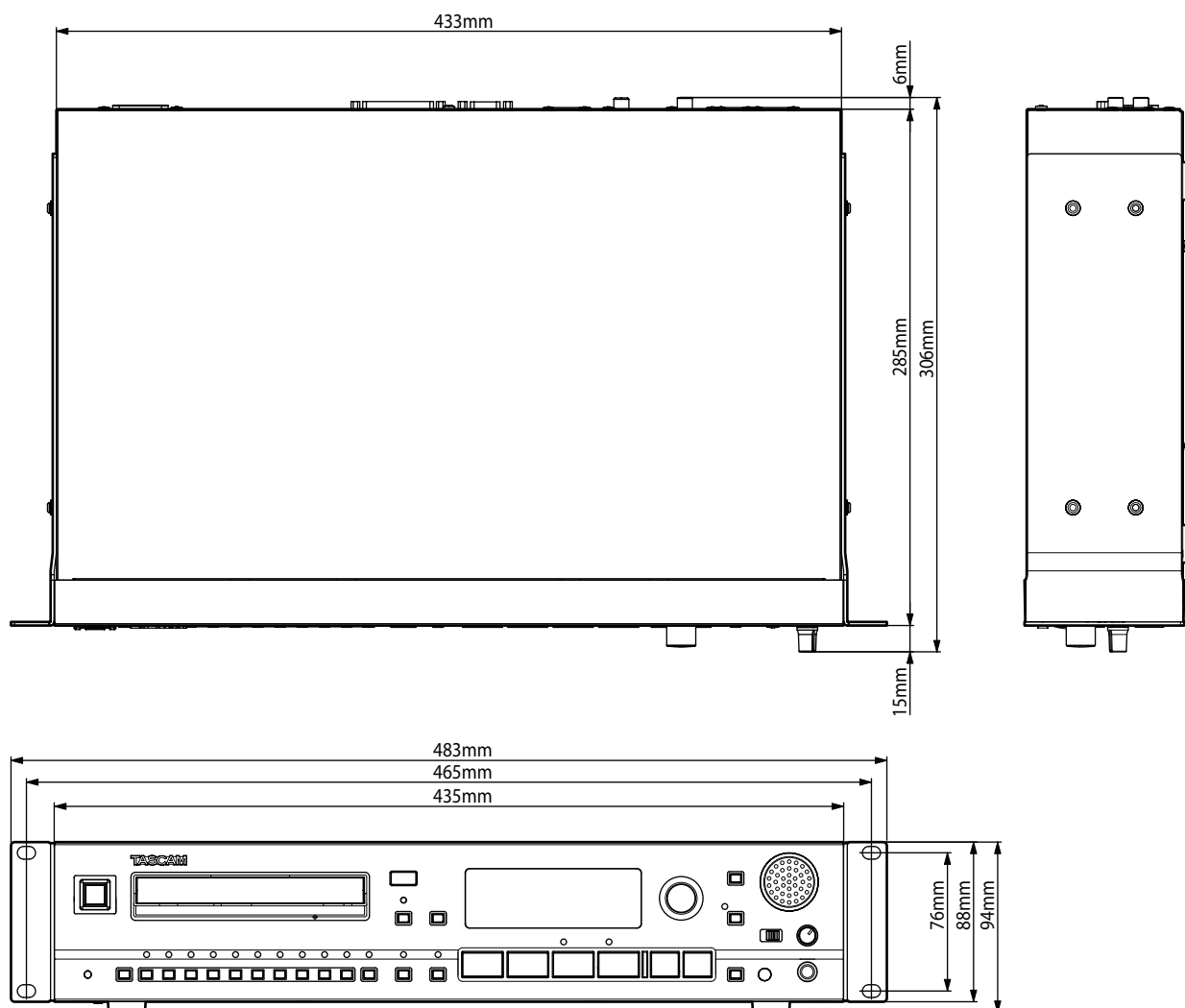
5~35°C

**設置時傾斜**

15度以内

**3. Dimensional drawings**

寸法図



# 4. Test Mode and Special Operations

## テストモードと特殊操作

### 1. How to enter test mode

With "no disc" shown on the LCD, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **PLAY** keys. The unit enters the test mode and the LCD shows "01 VERSION".

Rotate the **TRACK SKIP/DATA** knob to select the item. The following items are available.

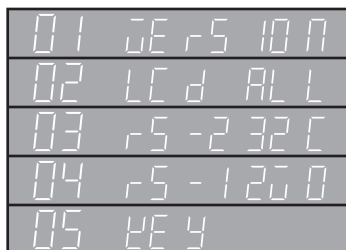
01: F/W version

02: All LCD characters/all LEDs lit

03: RS-232C brief check 1

04: RS-232C brief check 2

05: KEY/PARALLEL/REMOTE check



LCD

01: F/W version 表示

02: LCD 全表示 / LED 全点灯

03: RS-232C 簡易チェック 1

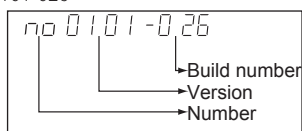
04: RS-232C 簡易チェック 2

05: KEY / PARALLEL / REMOTE チェック

#### 1) [01 : F/W version]

While the LCD shows "01 VERSION", pressing the **TRACK SKIP/DATA** knob shows the unit F/W version, such as below.

(Example) no 0101-026



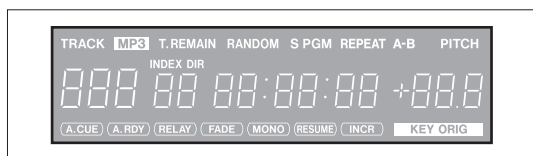
Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "01 VERSION".

Pressing the **STOP** key cancels the test mode.

#### 2) [02 : All LCD characters/all LEDs lit]

While the LCD shows "02 LCD ALL", pressing the **TRACK SKIP/DATA** knob displays all the LCD characters and all LED indicators (SHIFT, JOG, Number, CUE, FLASH, PLAY, PAUSE) light.

- LCD content



Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "02 LCD ALL".

Pressing the **STOP** key cancels the test mode.

#### 3) [03 : RS-232C brief check 1]

① Be sure to short-circuit the pin\_2(Rx) and pin\_3(Tx) on a 9 pin D-Sub connector, and then connect the connector to the RS-232C port in the back of the main unit.

② While the LCD shows "03 RS-232C", press the **TRACK SKIP/DATA** knob to enter the brief test mode for the unit's RS-232C port.

③ Press the **PLAY** key on the unit. If the LCD shows "OK", the RS-232C port works normally.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "03 RS-232C".

Pressing the **STOP** key cancels the test mode.

### 1. テストモードの起動方法

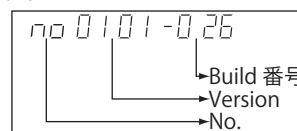
本体の電源を入れ、LCD表示が"no disc"の状態ですHIFTキーとPLAYキーを押しながら、TRACK SKIP/DATA ノブを押すと"01 VERSION"を表示し、テストモードに入ります。

TRACK SKIP/DATA ノブを回す毎にLCD表示が切り替わり、下記の項目の確認が出来ます。

#### 1) [01 : F/W version]

LCDに"01 VERSION"が表示されている時にTRACK SKIP/DATA ノブを押すと本体のF/Wのバージョンが表示されます。

[例] no 0101-026



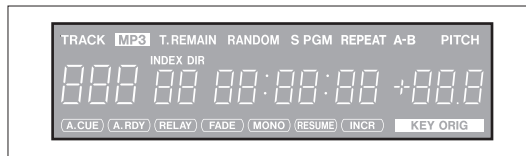
TRACK SKIP/DATA ノブを押すとLCD表示が"01 VERSION"に戻ります。

STOPキーを押すとテストモードを解除します。

#### 2) [02 : LCD 全表示 / LED 全点灯]

LCDに"02 LCD ALL"が表示されている時にTRACK SKIP/DATA ノブを押すと本体のLCD内容が全表示され、LEDの各インジケータ (SHIFT、JOG、数字、CUE、FLASH、PLAY、PAUSE) が全点灯します。

- LCD内容



TRACK SKIP/DATA ノブを押すとLCD表示が"02 LCD ALL"に戻ります。

STOPキーを押すとテストモードを解除します。

#### 3) [03 : RS-232C 簡易チェック 1]

① 9 pin D-Subコネクタに[Pin\_2(Rx)]と[Pin\_3(Tx)]を短絡加工した特別なコネクタを用意し、本体背面のRS-232C端子に接続します。

② LCDに"03 RS-232C"が表示されている時にTRACK SKIP/DATA ノブを押すとRS-232C端子の簡易チェックモードになります。

③ 本体のPLAYキーを押してLCDに"OK"が表示されれば、RS-232C端子は正常です。

TRACK SKIP/DATA ノブを押すとLCD表示が"03 RS-232C"に戻ります。

STOPキーを押すとテストモードを解除します。

**4) [04 : RS-232C brief check 2]**

- ① Connect a tester to the pin\_5(GND) and pin\_9(12V) on the RS-232C port located in the back of the main unit.
- ② When "**04 RS-12V0**" is shown on the LCD, press the **TRACK SKIP/DATA** knob to change the display to "**RS-12V0 ON**".
- ③ "**+12V(±0.5%)**" will appear on the tester display if the RS-232C port works correctly.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "**04 RS-12V0**".

Pressing the **STOP** key cancels the test mode.

**5) [05 : KEY/PARALLEL/REMOTE check]**

Connect the PARALLEL port checking tool and the **RC-3F, RC-20, RC-SS20** to the PARALLEL port and the REMOTE port, respectively.

While the LCD shows "**05 KEY**", pressing the **TRACK SKIP/DATA** knob enters the check mode for the keys, PARALLEL port and REMOTE port.

Pressing the **TRACK SKIP/DATA** knob again returns the LCD to "**05 KEY**".

The following tables show what is LCDed on the LCD when you press each key.

■ Unit Key assignment / LCD display

本体キーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
[CLEAR]	KEY CLEAR 000
[1]	KEY 1 000
[2]	KEY 2 000
[3]	KEY 3 000
[4]	KEY 4 000
[5]	KEY 5 000
[6]	KEY 6 000
[7]	KEY 7 000
[8]	KEY 8 000
[9]	KEY 9 000
[10/0]	KEY 0 000
[+10]	KEY P10 000
[CUE]	KEY CUE 000
[FLASH]	KEY FLASH 000
[OPEN/CLOSE]	KEY OPEN 000
[SHIFT]	KEY SHIF 000
[DISPLAY]	KEY DISP 000
STOP [■]	KEY STOP 000
CALL	KEY CALL 000
PLAY [▶]	KEY PLAY 000
PAUSE [■]	KEY PAUSE 000
SEARCH [◀◀]	KEY S-R -R 000
SEARCH [▶▶]	KEY S-R -F 000
[TRACK SKIP / DATA]	000-255
[MENU]	KEY MENU 000
[JOG]	KEY JOG 000
[PLAY MODE]	KEY P-MODE 000

**4) [04 : RS-232C簡易チェック 2]**

- ① 本体背面のRS-232C端子の[Pin\_5(GND)]と[Pin\_9(12V)]にテスターを接続します。
- ② LCDに"**04 RS-12V0**"が表示されている時に**TRACK SKIP/DATA**ノブを押し、LCD表示を"**RS-12V0 ON**"にしてください。
- ③ この時、テスターに"**+12V (±0.5%)**"が表示されれば、RS-232C端子は正常です。

**TRACK SKIP/DATA** ノブを押すとLCD表示が"**04 RS-12V0**"に戻ります。

**STOP**キーを押すとテストモードを解除します。

**5) [05 : KEY / PARALLEL / REMOTE チェック]**

PALALLELチェック治具(8ページ [6] **パラレルI/Oの仕様**)を参照)及び**RC-3F, RC-20, RC-SS20**を接続して、LCDに"**05 KEY**"が表示されている時に**TRACK SKIP/DATA**ノブを押すと本体のKEY/PARALLEL/REMOTEのチェックモードになります。

**TRACK SKIP/DATA** ノブを押すとLCD表示が"**05 KEY**"に戻ります。

各KEY、PARALLEL、REMOTEにおける表示文字は以下の通り

■ REMOTE [RC-3F] Key assignment / LCD display

リモート[RC-3F]のキーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
RC-3F [FOOT SW LEFT]	FOOT L 000
RC-3F [FOOT SW CENTER]	FOOT C 000
RC-3F [FOOT SW RIGHT]	FOOT R 000

■ REMOTE [RC-20] Key assignment / LCD display

リモート[RC-20]のキーの割り当て / LCD表示

Key assignment キーの割り当て	LCD display LCD表示
RC-20 [1]	R-C 01 000
↓	↓
RC-20 [20]	R-C 20 000
RC-20 [STOP/LOAD]	R-C STOP 000

■ Flash start key and RC-SS20 Key assignment / LCD display

フラッシュスタートキーとRC-SS20の割り当て / LCD表示

Key assignment キーの割り当て		LCD display LCD表示
Flash start key	RC-SS20	
[FLASH 1]	[1]	PIN P1 000
↓	↓	
[FLASH 20]	[20]	PIN P20 000
[STOP / LOAD]	[LOAD / STOP]	PIN FLASH 000

## 2. Parallel I/O Specifications

### 1) Brief descriptions

These specifications describe the Control I/O Parallel port on the CD-6010.

This parallel port is D-sub 25 pin connector and deals with such tasks as playback and flash start by shorting to GND in response to switching actions and others.

This port is also capable of providing DC 5V (100mA at max.) and lighting LEDs using Tally signals.

As a Remote connector, this port has two operation modes:

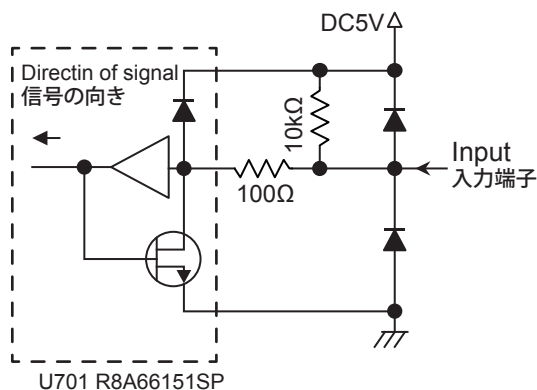
Normal mode in which the transport keys can normally be used as such; and Flash Start mode in which the flash start can be controlled over 20 tracks.

### 2) Connector's electrical specifications

Connector : D-sub 25 pin Female  
 Locking screw : UNC inch screw  
 Power : DC 5V recommended  
 (capable of being powered with DC 5V,  
 100mA from the main unit)

#### 2-1. Input terminal

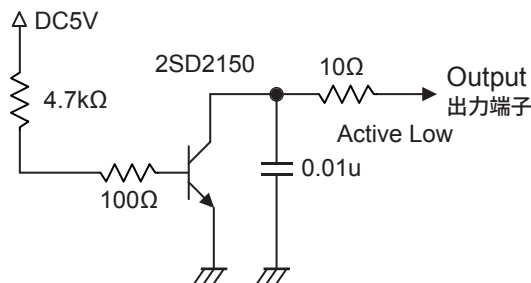
Pull UP (5V, 10kOhms) Low-Active  
 $V_{IH}=3.75$  or more  $V_{IL}=1.25$  or less



Circuit ① [Input] / 回路図 ① [入力]

#### 2-2. Output terminal

The withstand voltage is 20V for the 35mA.  
 Output type : Open collector, low-active  
 Collector-emitter saturation voltage :  $V_{CE0} = 0.4V$  or lower  
 Collector-emitter yield voltage :  $V_{CE0} = 50V$   
 Maximum collector current  $I_c = 50mA$



Circuit ② [Output] / 回路図 ② [出力]

## 2. パラレルI/Oの仕様

### 1) 概要

本仕様はCD-6010のCONTROL I/O PARALLEL端子について、記述します。

PARALLEL端子はD-SUB 25pinになっており、スイッチなどでGNDにショートすることにより、CD-6010を再生・フラッシュスタートなどの操作をすることができます。

また、直流電源 DC5V(Max 100mA)を供給することができ、TALLY信号を使ってLEDを点灯することができます。

また、Remote端子として2つの動作モードを持ち、通常のトランスポートキーとして使用できるNormal mode、20トラックのフラッシュスタートを制御するFlash Start modeを有しています。

### 2) コネクタ・電氣的仕様

コネクタ : D-Sub 25pin Female  
 ロックネジ : UNC インチネジ  
 電源 : DC5V推奨 (本体からDC5V/100mA供給可能)

#### 2-1. 入力端子

Pull Up (5V, 10kΩ) Active Low  
 $V_{IH}=3.75V$ 以上 /  $V_{IL}=1.25V$ 以下

#### 2-2. 出力端子

耐圧は [35mA Type : 20V] となります。  
 出力形式 : Open Collector Active Low  
 コレクタ エミッタ飽和電圧 :  $V_{CE0}=0.4V$ 以下  
 コレクタ エミッタ降伏電圧 :  $V_{CE0} = 50V$   
 最大コレクタ電流  $I_c=50mA$

## 3) Pin Assignment

Pin No.	Function		IN/OUT
	Normal (Pin 14 = H or Open)	Flash Start (Pin 14 = L)	
1	GND	GND	
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX / DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [ ▶▶ ]	FLASH 4	In
6	TRACK SKIP REV [ ◀◀ ]	FLASH 5	In
7	INDEX / DIR SEARCH REV	STOP / LOAD	In
8	FADER START / STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT *	REMOTE SELECT *	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [ ▶▶ ]	FLASH 8	In
18	SEARCH REV [ ◀◀ ]	FLASH 9	In
19	Reserved)	FLASH 10	In
20	Reserved)	FLASH PAGE **	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved, fixed high)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved, fixed low)	Out
25	+5V ***	+5V ***	

In : external command reception (operates active low, when ground 30 ms or longer)

Out : transport status display signal by open drain (20V maximum voltage, 35mA maximum current, 10Ω impedance)

\* : When pin 14 (REMOTE SELECT) is high or open, the functions in the left column are active and ordinary parallel control can be used. When set to low, the functions in the right column are active and they can be used as flash start keys.

\*\* : When pin 14 (REMOTE SELECT) is low, the high/low status of pin 20 (FLASH PAGE) determines the track assignments as shown below.

#14	#20	Flash start tracks
Low	High	1-10
Low	Low	11-20

\*\*\* : 100mA maximum supplied current

## 3) ピンアサイン

ピン 番号	機能		IN/OUT
	ノーマル (Pin 14 = H or Open)	フラッシュスタート (Pin 14 = L)	
1	GND	GND	
2	PLAY	FLASH 1	In
3	STOP	FLASH 2	In
4	INDEX / DIR SEARCH FWD	FLASH 3	In
5	TRACK SKIP FWD [ ▶▶ ]	FLASH 4	In
6	TRACK SKIP REV [ ◀◀ ]	FLASH 5	In
7	INDEX / DIR SEARCH REV	STOP / LOAD	In
8	FADER START / STOP	(Reserved)	In
9	FLASH LOAD TALLY	FLASH LOAD TALLY	Out
10	PAUSE TALLY	PAUSE TALLY	Out
11	NO DISC TALLY	(Reserved)	Out
12	STOP TALLY	STOP TALLY	Out
13	PLAY TALLY	PLAY TALLY	Out
14	REMOTE SELECT *	REMOTE SELECT *	In
15	PAUSE	FLASH 6	In
16	CALL	FLASH 7	In
17	SEARCH FWD [ ▶▶ ]	FLASH 8	In
18	SEARCH REV [ ◀◀ ]	FLASH 9	In
19	Reserved)	FLASH 10	In
20	Reserved)	FLASH PAGE **	In
21	EOM TRACK TALLY	EOM TRACK TALLY	Out
22	(Reserved)	(Reserved / ハイ固定)	Out
23	RELAY OUT (EOM DISC TALLY)	(Reserved)	Out
24	(Reserved)	(Reserved / ロー固定)	Out
25	+5V ***	+5V ***	

In : 外部コマンド受信 (アクティブロー、グラウンド 30msec 以上で動作。)

Out : オープンドレインによるトランスポートステータス表示用信号 (耐圧 20V、最大電流 35mA、インピーダンス 10Ω)

\* : ピン14 (REMOTE SELECT)

ピン14がハイもしくはオープンするとき、上記表の左列の機能が有効になり、通常の平行コントローラーとして使用することができます。

ローのとき、上記表の右側列の機能が有効になり、フラッシュスタートキーとして使用することができます。

\*\* : ピン20 (FLASH PAGE)

ローのとき、上記表の右側列の機能が有効になり、フラッシュスタートキーとして使用することができます。

ピン14 (REMOTE SELECT) がローのとき、ピン20のハイ/ロー状態によって、割り当てトラックが以下のようになります。

#14	#20	フラッシュスタートトラック
ロー	ハイ	1 ~ 10
ロー	ロー	11 ~ 20

\*\*\* : 最大供給電流 100mA

### 3. Firmware update

#### 1) Creating a CD for firmware update

- ① Prepare a blank CD-R disc, as well as a computer that can burn a data CD.
- ② Write the file for firmware update to a CD-R disc.

#### NOTE

The file must be written in ISO9660 Level 1 format (MSDOS compatible, disc-at-once).

#### 2) Firmware update procedure

- ① With **"no disc"** loaded, press the **OPEN/CLOSE** key while holding down the **SEARCH(◀◀)** and **SEARCH(▶▶)** keys. The disc tray will open.
- ② After the LCD shows **"update in"**, insert the CD-R disc for firmware update.

UP DR tE IN

Press the **OPEN/CLOSE** key to close the disc tray.

- ③ In a few seconds, the current version **"old ---"** will be shown on the LCD.

oLd 0101-026 0

- ④ Each time you press the **TRACK SKIP/DATA** knob, the display switches between **"new ---"** and **"- sure -"**. **"- sure -"** blinks when shown.

nEW 0102 028 0

-SUrE- 0

- ⑤ With **"- sure -"** shown on the LCD, turn the **TRACK SKIP/DATA** knob to start firmware update.

During the update process, **"update"** is shown.

UP DR tE 30

\*: The value shown to the right as a percentage is how much of the update process has been completed.

- ⑥ When the update process is completed, **"complete ---"** will be shown on the LCD and the CD will be automatically ejected.

CO mP LE tE 100

\*: The value shown to the right as a percentage is how much of the update process has been completed.

#### NOTE

If the power is off during the update process, it may cause critical damage to the internal ROM, which requires changing the ROM chip.

After updating the firmware, initialize the preset menu if required (see page 11 **"4. Execution of the factory preset"** below).

- ⑦ Remove the CD-R for firmware update from the disc tray, and then press the **OPEN/CLOSE** key to close the disc tray. Turn the main unit's power off, and then, in at least 3 seconds, turn it on again.

Follow the instructions in **"5. Checking the firmware version"** on page 11

### 3. ファームウェアアップデート

#### 1) アップデート用CD作成

- ① 何も書き込まれていないCD-Rメディアと、データCDを作成できる環境をPCに用意します。
- ② バージョンアップ用ファイルをCD-Rメディアに書き込みます。

#### メモ

CD-Rへの書き込みフォーマットはISO9660 Level 1(MS-DOS互換 Disc at once)

#### 2) ファームウェアアップデート手順

- ① 本体の電源を入れ**"no disc"**の状態では**SEARCH (◀◀)**キーと**SEARCH (▶▶)**キーを押しながら**OPEN/CLOSE**キーを押すと、ディスクトレイが開きます。
- ② LCDに**"update in"**と表示されたら、アップデート用のCD-Rを挿入します。

UP DR tE IN

**OPEN/CLOSE**キーを押し、ディスクトレイを閉じます。

- ③ しばらく待るとLCDに現行バージョン**"old ---"**を表示します。

oLd 0101-026 0

- ④ **TRACK SKIP/DATA** ノブを押す毎に**"new ---"**→**"- sure -"**と表示し、**"- sure -"**表示が点滅します。

nEW 0102 028 0

-SUrE- 0

- ⑤ **"- sure -"**表示のときに**TRACK SKIP/DATA** ノブを押すとアップデートを開始します。アップデート中は、**"update ---"**を表示します。

UP DR tE 30

\*: 右端の数値は、アップデートの達成度を表示(単位は"%")。

**"old ---"** / **"new ---"** / **"- sure -"**の表示中に**OPEN/CLOSE**キーを押すとLCD表示が**"update in"**に戻ります。

- ⑥ アップデートが完了するとLCDに**"complete ---"**と表示し、CDが自動的に排出されます。

CO mP LE tE 100

\*: 右端の数値は、アップデートの達成度を表示(単位は"%")。

#### 注意

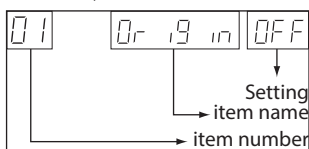
アップデート中に電源が切れると本体のROMが破壊され、交換が必要になる場合があります。

アップデートを行った場合は、必要に応じて11 ページ「**4. ファクトリープリセットの実行**」を行ってください。

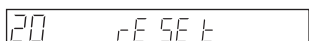
- ⑦ ディスクトレイからアップデート用のCD-Rを取り出し、**OPEN/CLOSE**キーを押してディスクトレイを閉じます。本体の電源を切り、3秒以上経過してから本体の電源を入れて、11 ページの **[5. ファームウェアバージョン確認]** を実行してください。

#### 4. Execution of the factory preset

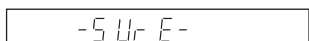
- ① Turn the main unit's power on, and then with "no disc" shown on the LCD, press the main unit's **MENU** key.



- ② Turn the **TRACK SKIP/DATA** knob, Select the "20 reset" menu item.



- ③ Press the **TRACK SKIP/DATA** knob. "**-sure-**" blinks on the LCD.



- ④ To restore the unit to its factory default settings, press the **TRACK SKIP/DATA** knob. When the resetting process is completed, the unit will show the menu on the display.

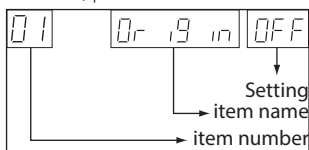
- ⑤ Press the **MENU** key to show "no disc" on the display again.

##### NOTE

When the preset menu is reset, all the programs (up to 100 programs for CD-DA) memorized on the internal EEPROM are erased.

#### 5. Checking the firmware version

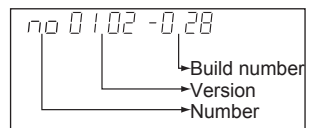
- ① Turn the main unit's power on, and then with "no disc" shown on the LCD, press the main unit's **MENU** key.



- ② Turn the **TRACK SKIP/DATA** knob, Select the "21 info" menu item.



- ③ Pressing the **TRACK SKIP/DATA** knob shows the unit F/W version, such as below.



- ④ Press the **MENU** key to show "no disc" on the display again.

#### 6. Checking/resetting the total mechanism operation time

##### 1) Checking the total mechanism operation time

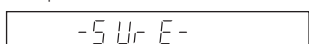
With "no disc" loaded, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **CALL** keys.

The LCD shows the total mechanism operation time while the **SHIFT** and **CALL** keys are being pressed.



##### 2) Resetting the total mechanism operation time

- ① While the LCD shows the total mechanism operation time (see 1) above), press the **TRACK SKIP/DATA** knob.



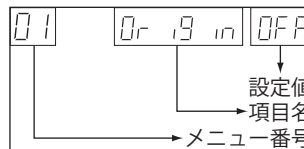
- ② If you press the **TRACK SKIP/DATA** knob when "**-sure-**" is displayed, the total mechanism operation time will be reset.

##### NOTE

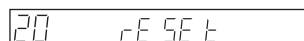
Note that the total mechanism operation time should be reset only when you change the drive.

#### 4. ファクトリープリセットの実行

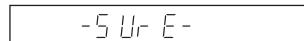
- ① 本体の電源を入れて"no disc"の状態、本体の**MENU**キーを押します。



- ② **TRACK SKIP/DATA** ノブを回し、メニュー番号"20 reset"を選択します。



- ③ **TRACK SKIP/DATA** ノブを押すと、LCDに"**-sure-**"が点滅します。



- ④ **TRACK SKIP/DATA** ノブを押すと、工場出荷時の設定に戻ります。リセットが完了すると、①の状態に戻ります。

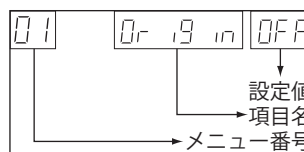
- ⑤ もう一度、**MENU**キーを押すと"no disc"の状態に戻ります。

##### 注意

初期化を行うと本体のEEPROMに記憶されているプログラム(CD-DAのみ最大100件分)も消去されます。

#### 5. ファームウェアバージョン確認

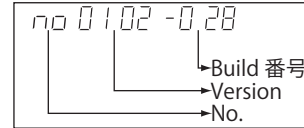
- ① 本体の電源を入れて"no disc"の状態、本体の**MENU**キーを押します。



- ② **TRACK SKIP/DATA** ノブを回し、メニュー番号"21 info"を選択します。



- ③ **TRACK SKIP/DATA** ノブを押すと本体のF/WのバージョンがLCDに表示されます。



- ④ もう一度、**MENU**キーを押すと"no disc"の状態に戻ります。

#### 6. メカ積算時間表示とクリアー方法

##### 1) メカ積算時間表示方法

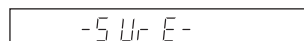
本体の電源を入れて"no disc"の状態、**SHIFT**キーと**CALL**キーを押しながら**TRACK SKIP/DATA**ノブを押します。

**SHIFT**キー+**CALL**キーを押している間は、積算時間を表示します。



##### 2) メカ積算時間クリアー方法

- ① 上記1)でメカ積算時間の表示状態で**TRACK SKIP/DATA**ノブを押すと、LCDに"**-sure-**"を表示します。



- ② "**-sure-**"の表示状態で**TRACK SKIP/DATA**ノブを押すと、メカ積算時間がクリアーされます。

##### メモ

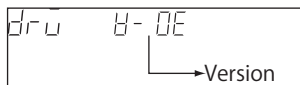
メカ積算時間のクリアーはドライブ交換をした時のみ、実行してください。

## 7. Checking the Drive firmware version

- ① With **"no disc"** loaded, press the **TRACK SKIP/DATA** knob while holding down the **SHIFT** and **9** keys.

The LCD shows the drive version.

(Example) drv W-0E



- ② Press the **TRACK SKIP/DATA** knob to show **"no disc"** on the display again.

## 8. Drive firmware update

### 1) Creating a CD for firmware update

- ① Prepare a blank CD-R disc, as well as a computer that can burn a data CD.  
② Write the file for firmware update to a CD-R disc.

#### NOTE

The file must be written in ISO9660 Level 1 format (MSDOS compatible, disc-at-once).

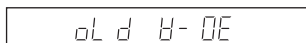
### 2) Firmware update procedure

- ① With **"no disc"** loaded, press the **OPEN/CLOSE** key while holding down the **STOP(■)** and **CALL** keys.  
The disc tray will open.  
② After the LCD shows **"drv update"**, insert the CD-R disc for firmware update.



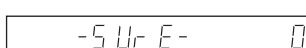
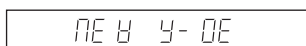
Press the **OPEN/CLOSE** key to close the disc tray.

- ③ In a few seconds, the current version **"old ---"** will be shown on the LCD.



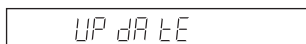
- ④ Each time you press the **TRACK SKIP/DATA** knob, the display switches between **"new ---"** and **"- sure -"**.

**"- sure -"** blinks when shown.



- ⑤ With **"- sure -"** shown on the LCD, turn the **TRACK SKIP/DATA** knob to start firmware update.

During the update process, **"update"** is shown.



If you press the **OPEN/CLOSE** key when **"old ---"**, **"new ---"** or **"- sure -"** is displayed, **"update in"** will be shown on the display again.

- ⑥ When the update process is completed, **"complete ---"** will be shown on the LCD and the CD will be automatically ejected.



#### NOTE

If the power is off during the update process, it may cause critical damage to the internal ROM, which requires changing the ROM chip.

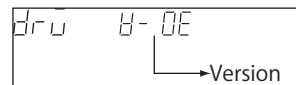
- ⑦ Remove the CD-R for firmware update from the disc tray, and then press the **OPEN/CLOSE** key to close the disc tray.  
Turn the main unit's power off, and then, in at least 3 seconds, turn it on again. Follow the instructions in **"7. Checking the Drive firmware version"** on this page.

## 7. ドライブファームウェアバージョン確認

- ① 本体の電源を入れて、**"no disc"**の状態では**SHIFT**キーと**9**キーを押しながら**TRACK SKIP/DATA**ノブを押します。

LCDにバージョンが表示されます。

[例] drv W-0E



- ② もう一度、**TRACK SKIP/DATA**ノブを押すと**"no disc"**の状態に戻ります。

## 8. ドライブファームウェアアップデート

### 1) アップデート用CD作成

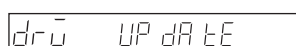
- ① 何も書き込まれていないCD-Rメディアと、データCDを作成できる環境をPCに用意します。  
② バージョンアップ用ファイルをCD-Rメディアに書き込みます。

#### メモ

CD-Rへの書き込みフォーマットはISO9660 Level 1(MS-DOS互換 Disc at once)

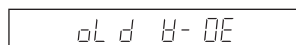
### 2) ファームウェアアップデート手順

- ① 本体の電源を入れ**"no disc"**の状態では**STOP(■)**キーと**CALL**キーを押しながら**OPEN/CLOSE**キーを押すと、ディスクトレイが開きます。  
② LCDに**"drv update"**と表示されたら、アップデート用のCD-Rを挿入します。

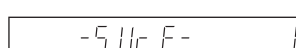
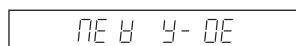


**OPEN/CLOSE**キーを押し、ディスクトレイを閉じます。

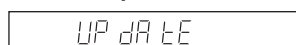
- ③ しばらく待つとLCDに現行バージョン**"old ---"**を表示します。



- ④ **TRACK SKIP/DATA**ノブを押す毎に**"new ---"**→**"- sure -"**と表示し、**"- sure -"**表示が点滅します。

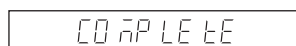


- ⑤ **"- sure -"**表示のときに**TRACK SKIP/DATA**ノブを押すとアップデートを開始します。  
アップデート中は、**"update"**を表示します。



**"old ---"** / **"new ---"** / **"- sure -"**の表示中に**OPEN/CLOSE**キーを押すとLCD表示が**"update in"**に戻ります。

- ⑥ アップデートが完了するとLCDに**"complete"**と表示し、CD-Rが自動的に排出されます。



#### 注意

アップデート中に電源が切れるとドライブ交換が必要になる場合があります。

- ⑦ ディスクトレイからアップデート用のCD-Rを取り出し、**OPEN/CLOSE**キーを押してディスクトレイを閉じます。  
本体の電源を切り、3秒以上経過してから本体の電源を入れて、このページの**[7. ドライブファームウェアバージョン確認]**を実行してください。

## 5. How to change the balanced output level

### バランス出力レベルの変更方法

You can change the balanced output level of the CD-6010 by changing the positions of jumper wires. When the CD-6010 is shipped, jumper wires are set to R320, R340, R356 and R376 on circuit board E95451200A : PCB ASSY, MAIN CD-6010 G.

In this condition, the maximum output level is +24 dBu.

For example, if you wish to change the maximum output level to +15 dBu, change jumper wire settings as follows: R320 → R311, R340 → R330, R356 → R347 to R376 → R367.

CD-6010のBalance出力はジャンパー線の位置を移動することにより出力レベルを変更できます。

出荷時ジャンパー線はE95451200A : PCB ASSY, MAIN CD-6010 G 基板上のR320、R340、R356、R376に実装されており、Maxレベルは24dBuです。

例えばMaxレベルを15dBuへ変更する場合には、ジャンパー線をR320 → R311、R340 → R330、R356 → R347、R376 → R367へ移動します。

Ref Level	Max Level	R311 R330 R347 R367	R313 R331 R349 R369	R316 R336 R352 R372	R318 R338 R354 R374	R320 R340 R356 R376
+6dBu	15dBu	O	No mount	No mount	No mount	No mount
+4dBu	18dBu	No mount	O	No mount	No mount	No mount
+4dBu	20dBu	No mount	No mount	O	No mount	No mount
+4dBu	22dBu	No mount	No mount	No mount	O	No mount
+4dBu	24dBu	No mount	No mount	No mount	No mount	O

## 5. Messages Explained

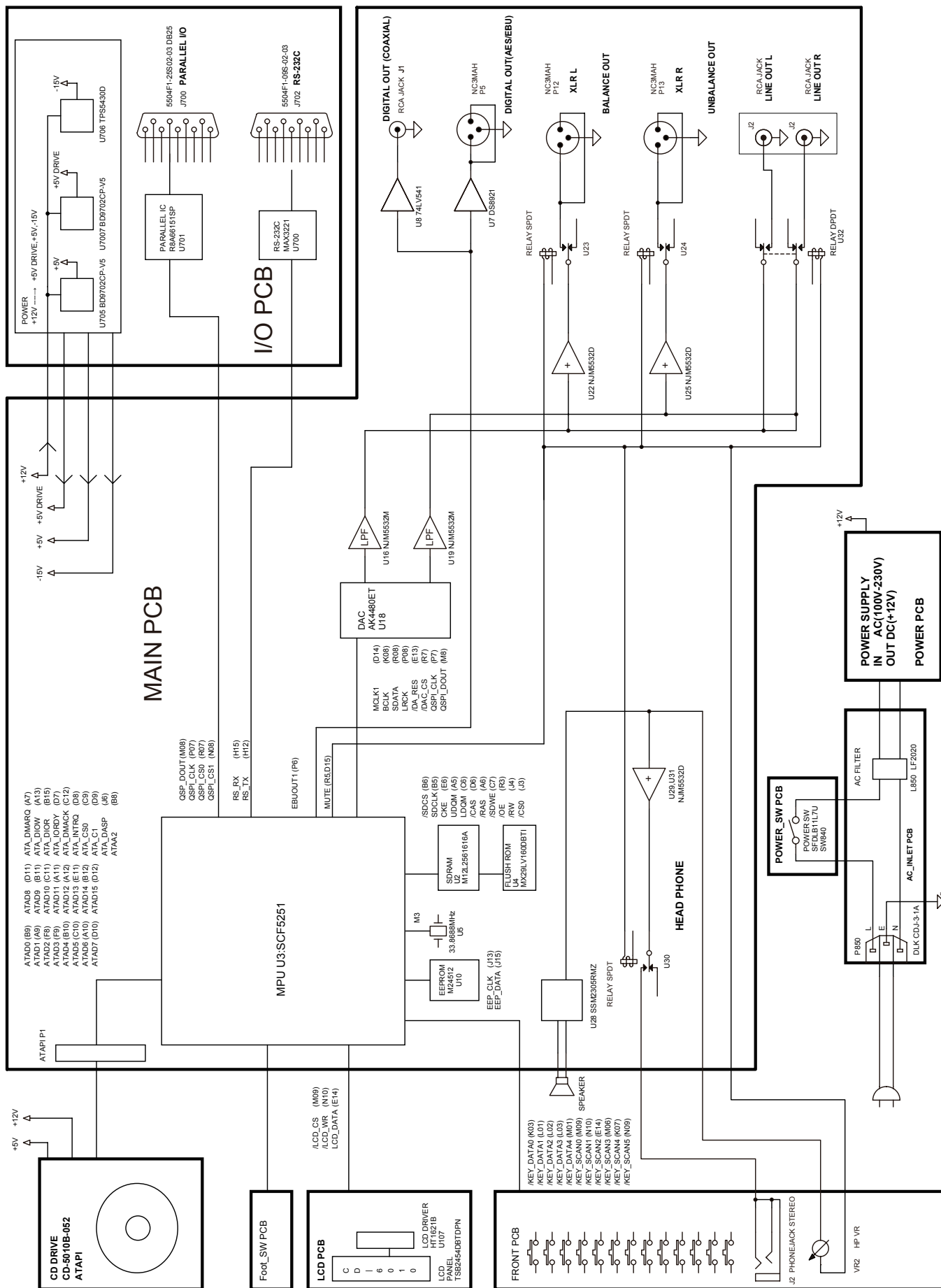
### メッセージ一覧

Messages メッセージ	Meaning メッセージ内容	Response 対処方法
Err01	TOC Read Error	Clean or change the disc. ディスクをクリーニングするか、交換してください。
Err09	Flash ROM Error	If one of these errors appears, turn the power off and back on. If you are unable to turn the power off, disconnect the power cord. これらのエラーが表示された場合は、電源を入れなおしてください。 電源を切ることができない場合は、電源コードを取り外してください。
Err10	SDRAM Error	
Err13	SYSTEM Error	

# 6. Block Diagram

## ブロックダイアグラム

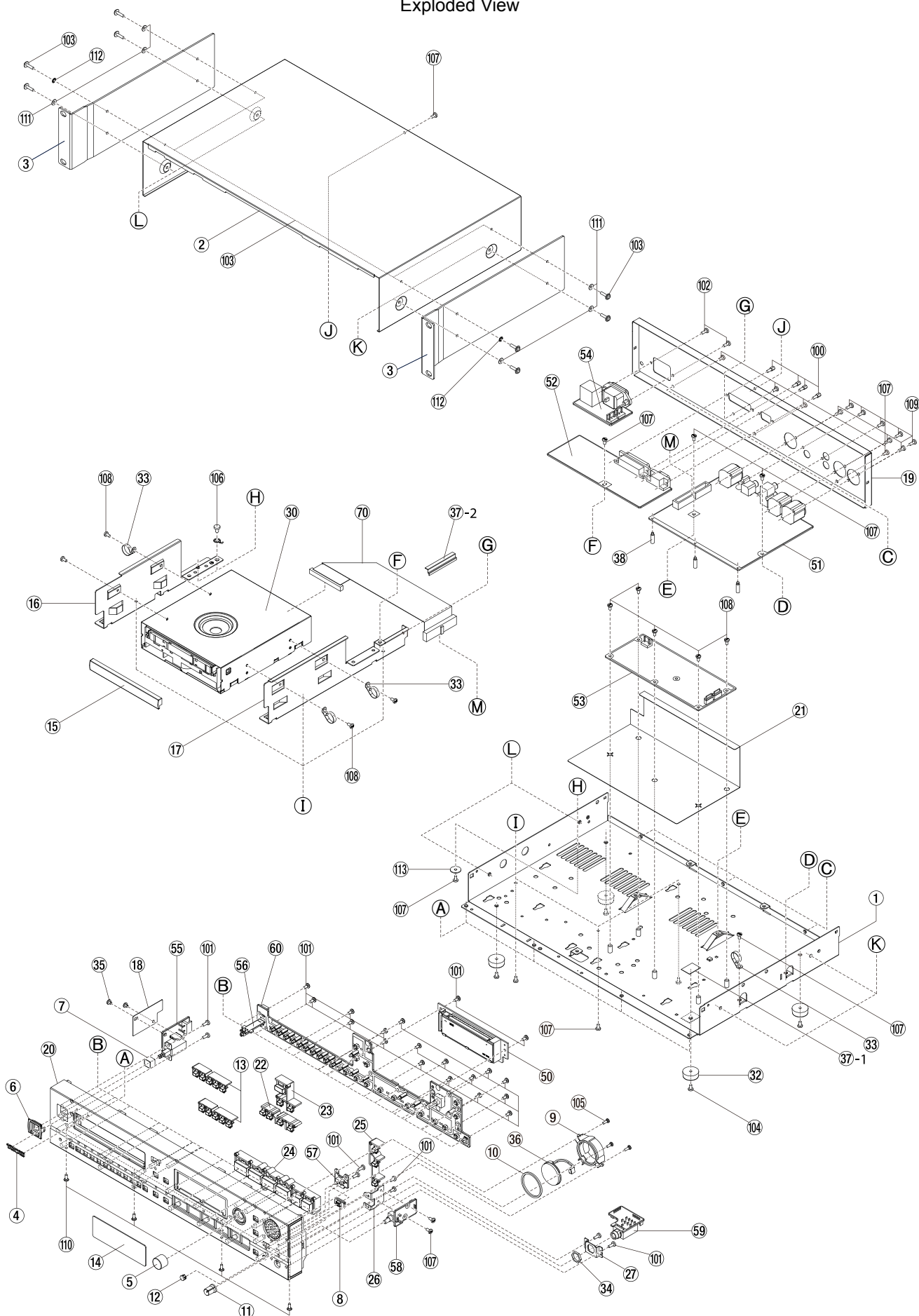
CD-6010 Block\_Fig



# 7. Exploded Views and Parts List

分解図とパーツリスト

Exploded View



**CAUTION** Part with numbers in parentheses ( ) cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
1	3M0057950B	CHASSIS,MAIN CD6010 G	1	
2	3M0058120C	BONNET RW800B G	1	
3	3M0073250A	RACK MOUNT ANGLE,CD6010 G	2	
4	3M0134900A	BADGE TASCAM SILVER G	1	
5	M01224320A	KNOB,D16 JOG BLACK G	1	
6	M01334910A	ESCUTCHEON,POWER CD6010 G	1	
7	M01335110A	BUTTON,POWER CD6010 BLK G	1	
8	M01891400A	KNOB,SLIDE WIDE G	1	
9	M03140500A	HOLDER,SP RCHS20PD G	1	
10	M03140600B	CUSHION,HLD-SP RCHS20PD G	1	
11	M03219000A	KNOB,VR US1K G	1	
12	M03260600A	LENS,REMOTE CD500 G	1	
13	M03260910A	BUTTON,TEN KEY CD6010 G	2	
14	M03261200D	WINOW,CD500 G	1	
15	M03372500B	ESC,TRAY KCPCFQ G	1	
16	M03411300A	BRKT,DRIVE(L) CD6010 G	1	
17	M03411400A	BRKT,DRIVE(R) CD6010 G	1	
18	M03411500A	PLATE,GUARD PWR CD6010 G	1	
19	M03411600B	REAR PANEL,CD6010 G	1	
20	M03411700A	FRONT PANEL,CD6010 G	1	
21	M03411800A	PLATE,GUARD SW CD6010 G	1	
22	M03411900A	BUTTON,TEN KEY CD6010 G	1	
23	M03412000A	BUTTON,EJECT CD6010 G	1	
24	M03412100A	BUTTON,STOP CD6010 G	1	
25	M03412200A	BUTTON,SEARCH CD6010 G	1	
26	M03412300B	BRKT,VOL CD6010 G	1	
27	M03412400A	BRKT,PHONE CD6010 G	1	
30	1C77237052	CD-5010B-052	1	
31	3M000870	CABL BAND,100MM DS-8432-G	4	
32	3M001950	FOOT,21MM G	4	
33	3M0102200A	WIRE CLAMP WL4-50T G	4	
34	3M0131000A	NUT, M12X2.3 G	1	
35	3M0195700A	SNAP RIVET(SR3-3.5) X-9G	2	
36	E01646700A	SPEAKER,HF32008F160A G	1	
37	M0306120	TAPE,ACETATE NO156A 15MMG	1	Refer to page 15 (37)-1 : 2cm / (37)-2 : 5cm)
38	M03425700A	S SUPPORT,MAM-12.7 G	3	
50	E95192620A	PCB ASSY,DISPLAY(J)CD500G	1	Refer to page 26 (GATHER PCB,J CDX05 G)
51	E95451200A	PCB ASSY,MAIN CD-6010 G	1	Refer to page 18 (GATHER PCB,MAIN CD-6010 G)
52	E95451300A	PCB ASSY,IO CD-6010 G	1	Refer to page 22 (GATHER PCB,IO CD-6010 G)
53	E95451400A	PCB ASSY,POWER G	1	Refer to page 20 (GATHER PCB,POWER G)
54	(E95452100A)	PCB ASSY,AC_INLET CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)

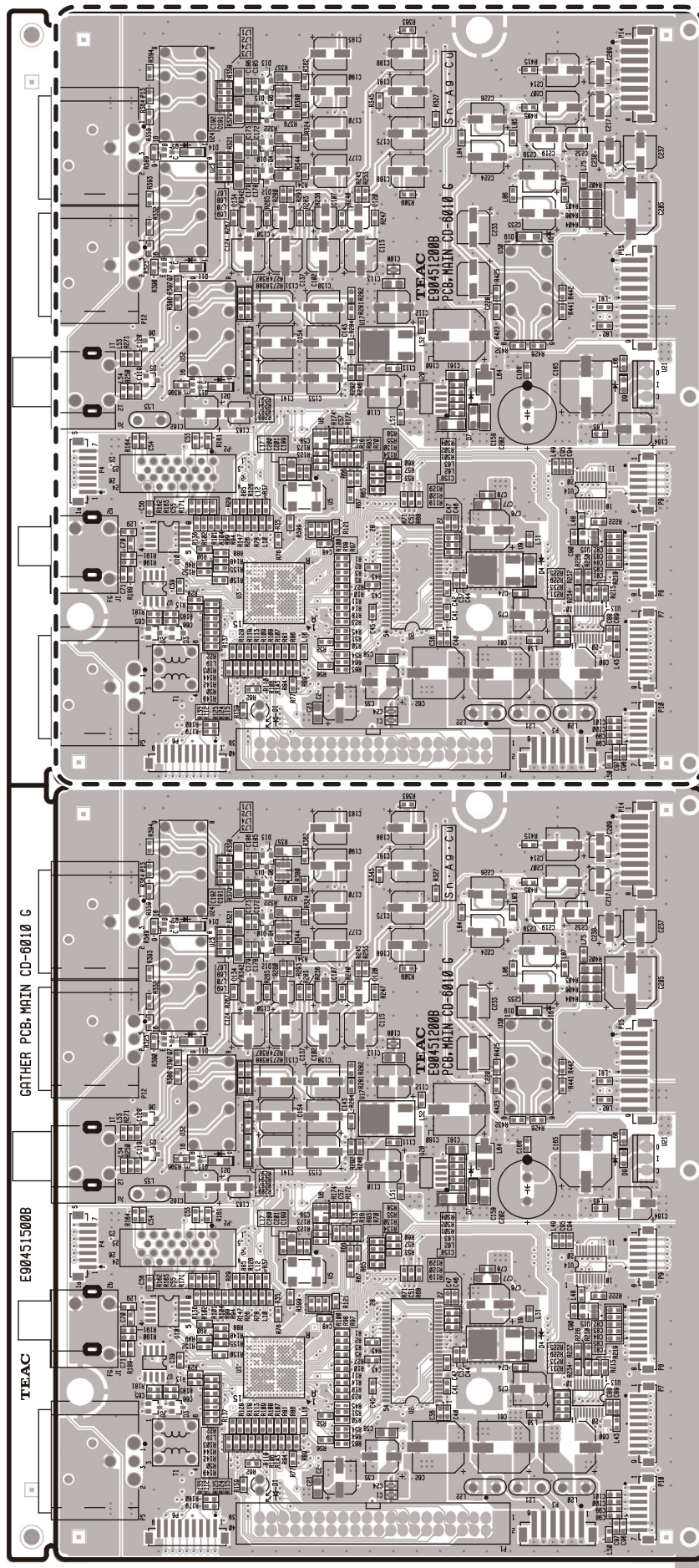
**CAUTION** Part with numbers in parentheses ( ) cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
55	(E95452200A)	PCB ASSY,AC_SW CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
56	(E95452300A)	PCB ASSY,REM CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
57	(E95452400A)	PCB ASSY,SLIDE CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
58	(E95452500A)	PCB ASSY,VR CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
59	(E95452600A)	PCB ASSY,HP_JACK CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
60	(E95452700A)	PCB ASSY,FRONT CD-6010 G	1	Refer to page 24 (GATHER PCB,FRONT CD-6010 G)
70	E01825600B	HARN ASSY,ATA CD-6010 G	1	
71	E01825800A	HARN ASSY,LCD CD-6010 G	1	
72	E01825900A	HARN ASSY,KEY1 CD-6010 G	1	
73	E01826000A	HARN ASSY,KEY2 CD-6010 G	1	
74	E01826100A	HARN ASSY,KEY3 CD-6010 G	1	
75	E01826300B	HARN ASSY,REM CD-6010 G	1	
76	E01826500A	HARN ASSY,VR CD-6010 G	1	
100	3B0013000A	D-SUB SCREW 003-HEX G	4	
101	B00192708A	SCREW,BPP 3*8 FZB G	27	
102	B00192710A	SCREW,BPP 3*10 FZB G	2	
103	B00197612A	SCREW,PPSU 3*12 FZB G	8	
104	B00197806A	SCREW,PPSU 3*6 FZC G	4	
105	B00198908A	SCREW,BPP 2.6*8 FZC G	3	
106	B00199506A	SCREW,BPB 4*6 FZC G	1	
107	B00199706A	SCREW,BPB 3*6 FZB G	14	
108	B00207806A	SCREW,BPAA 3*6 FZC G	9	
109	B00208008A	SCREW,BPBR3*8 FZB G	8	
110	B00247000A	SCREW,DPS 3*6.9FZB G	4	
111	3M002020	FIBER WSHR,3X8X0.3T BLK	6	
112	M02788000A	T LK WSHR,3D G	2	
113	M02824300A	PLAIN WASHER,M3 D14 G	1	

# 8. PC Boards and Parts List

## 基板図とパーツリスト

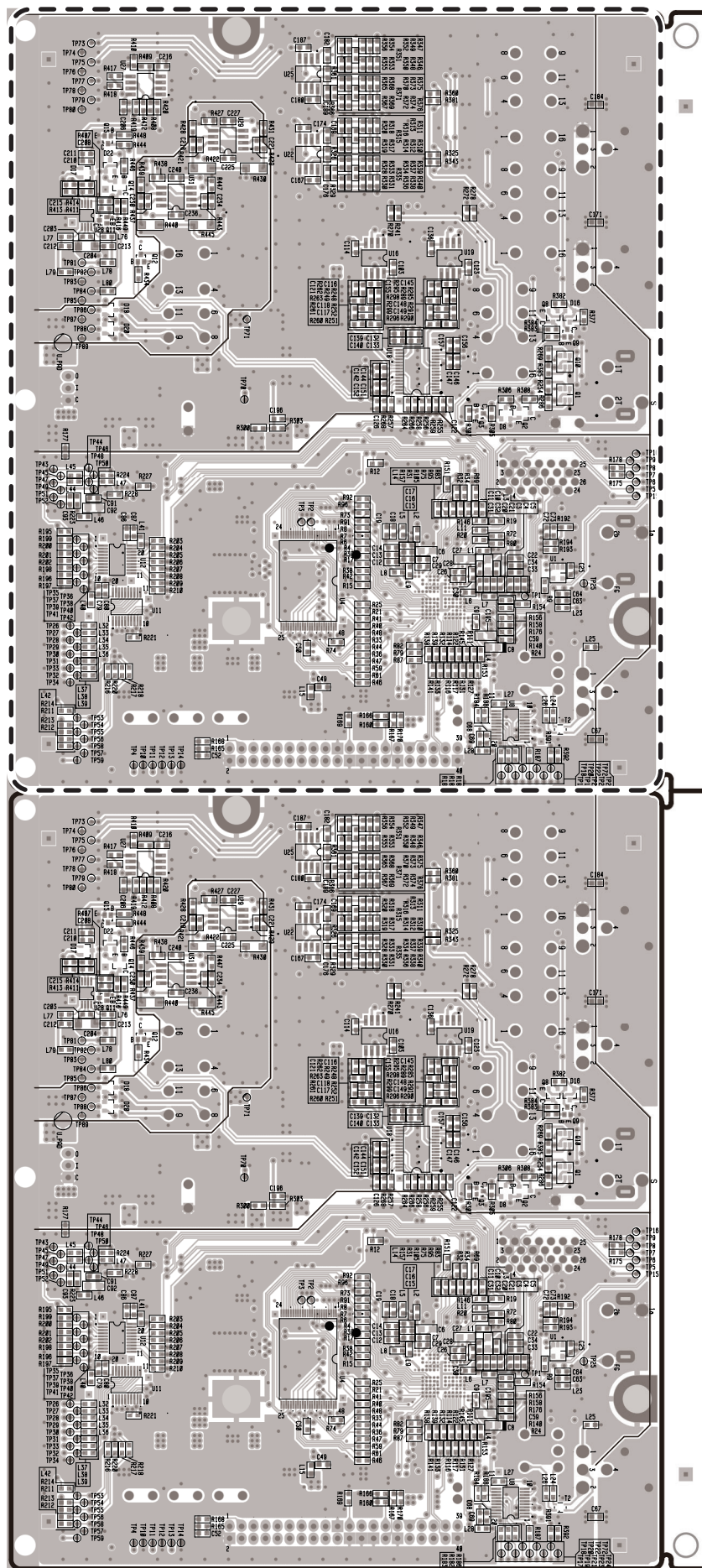
GATHER PCB, MAIN CD-6010 G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

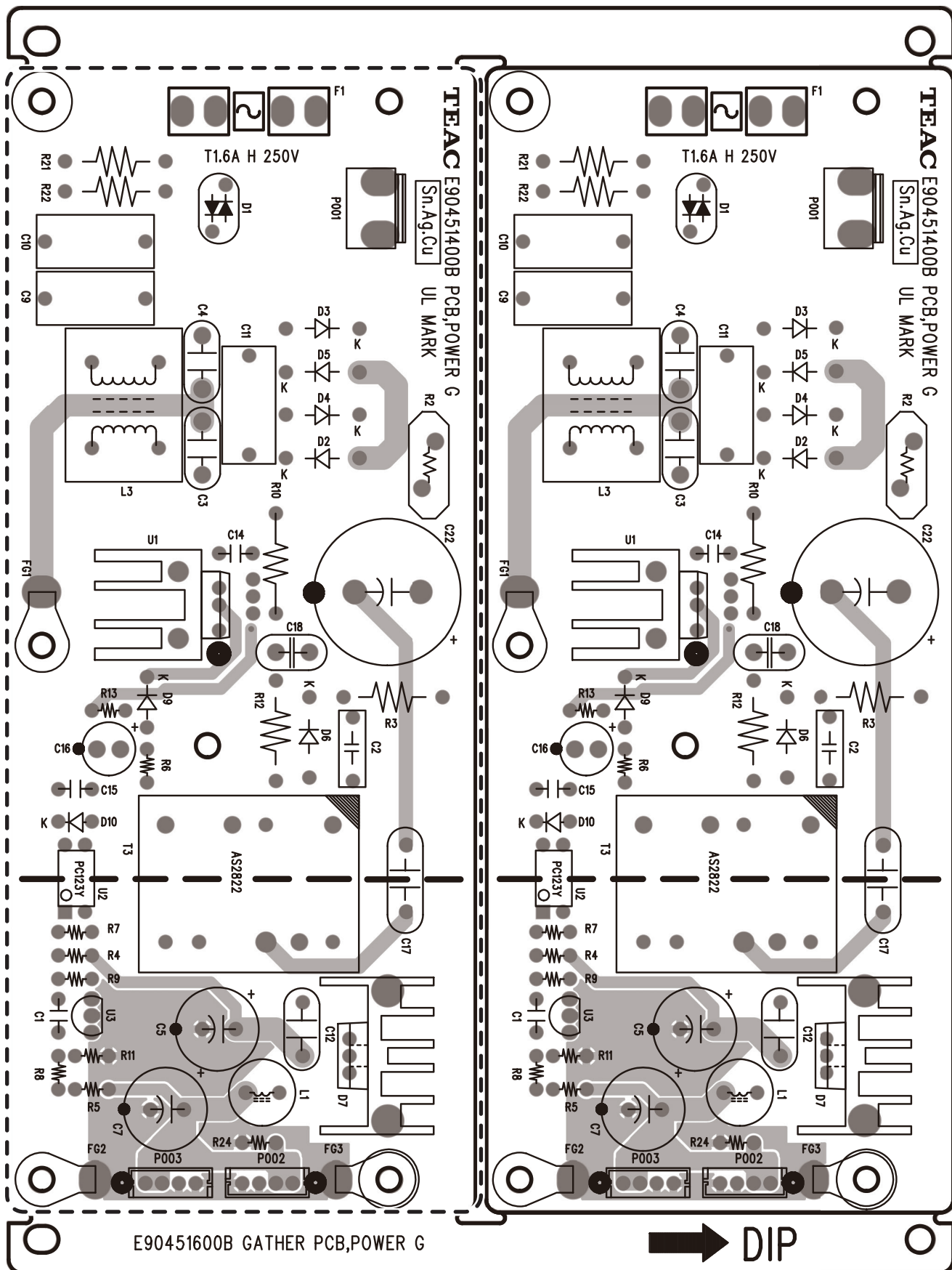
GATHER PCB, MAIN CD-6010 G (Side B)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

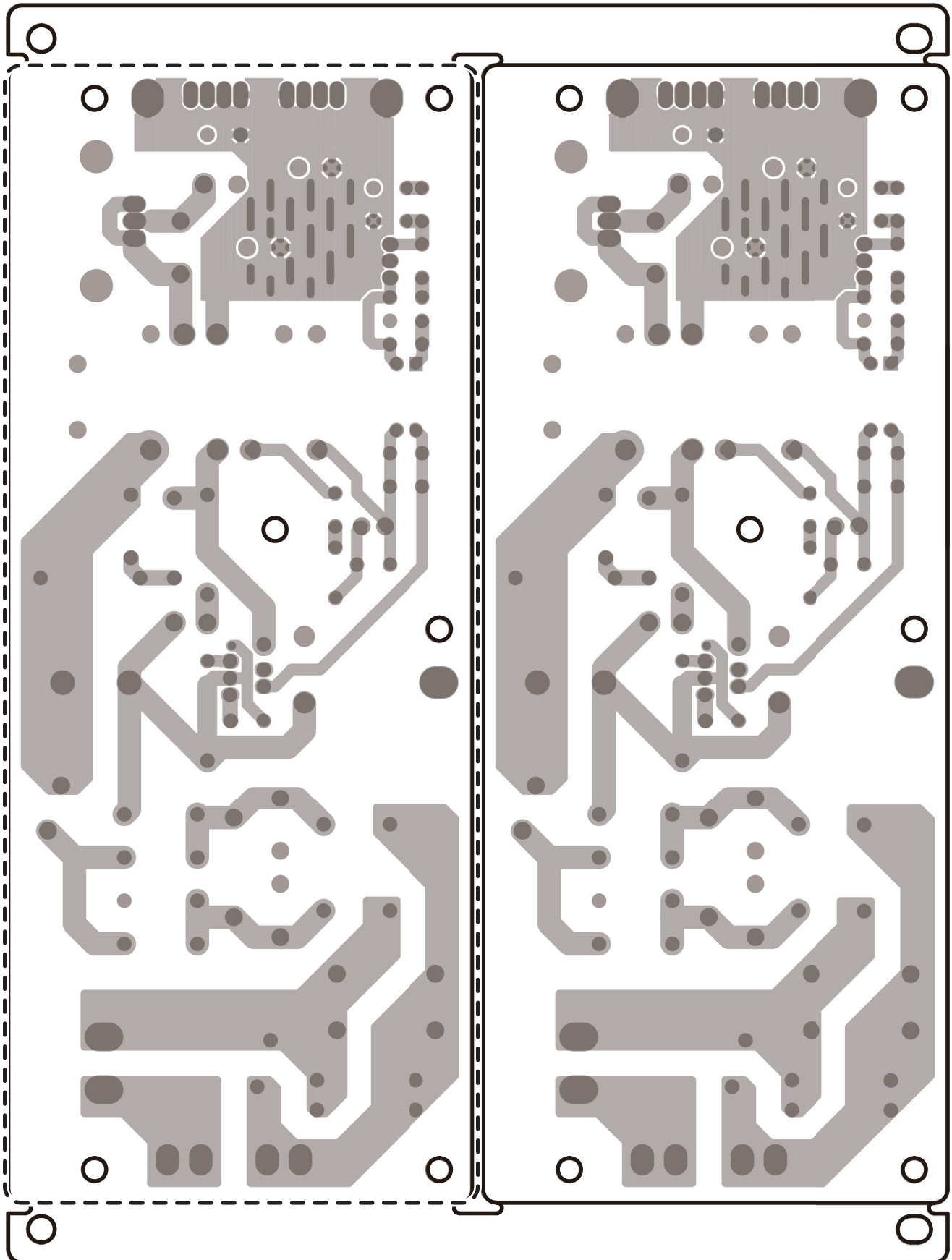
GATHER PCB,POWER G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

## GATHER PCB,POWER G (Side B)

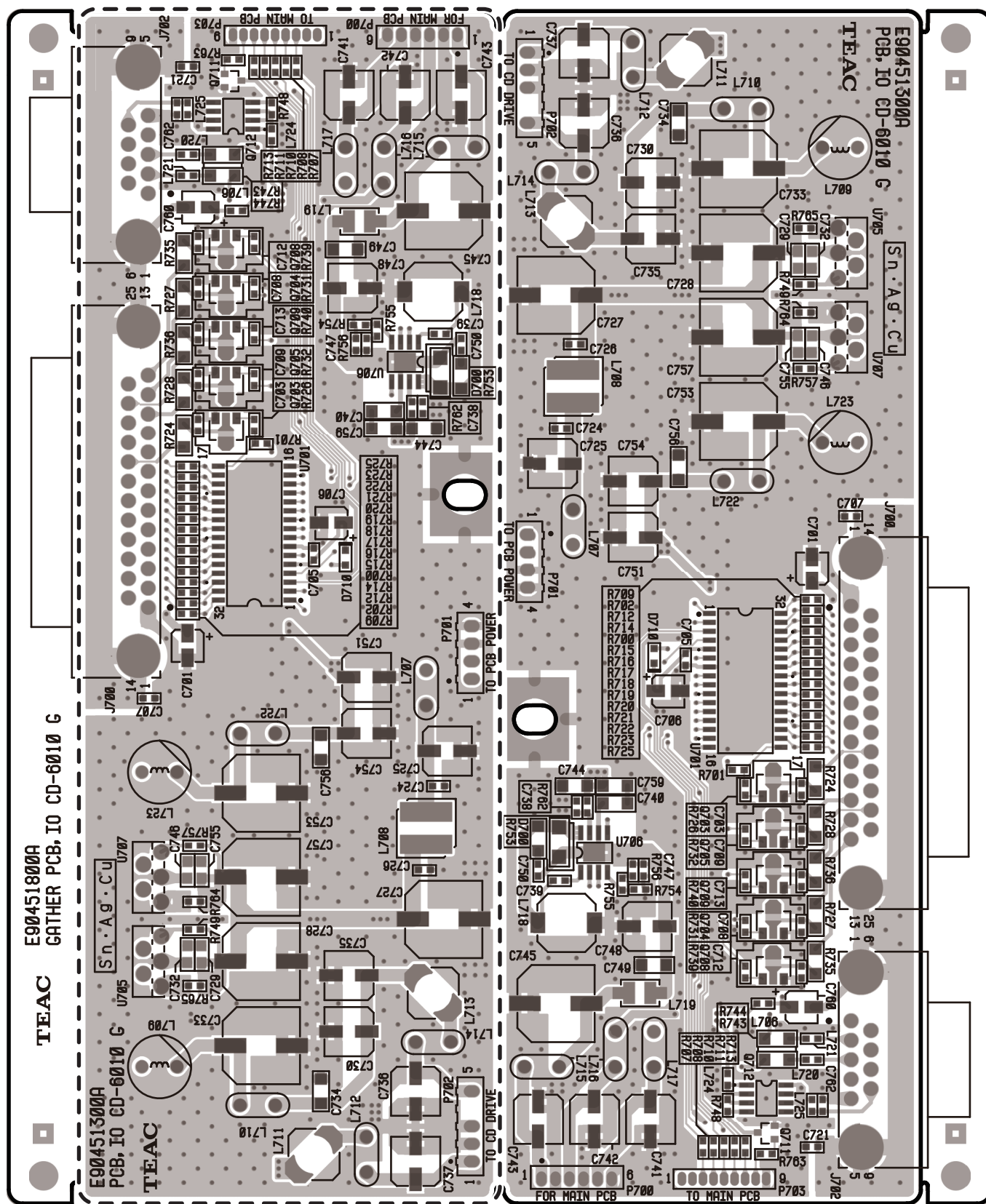


**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

- 21 -

**注意** 破線部分は、太字品番で発注する補修部品になります。

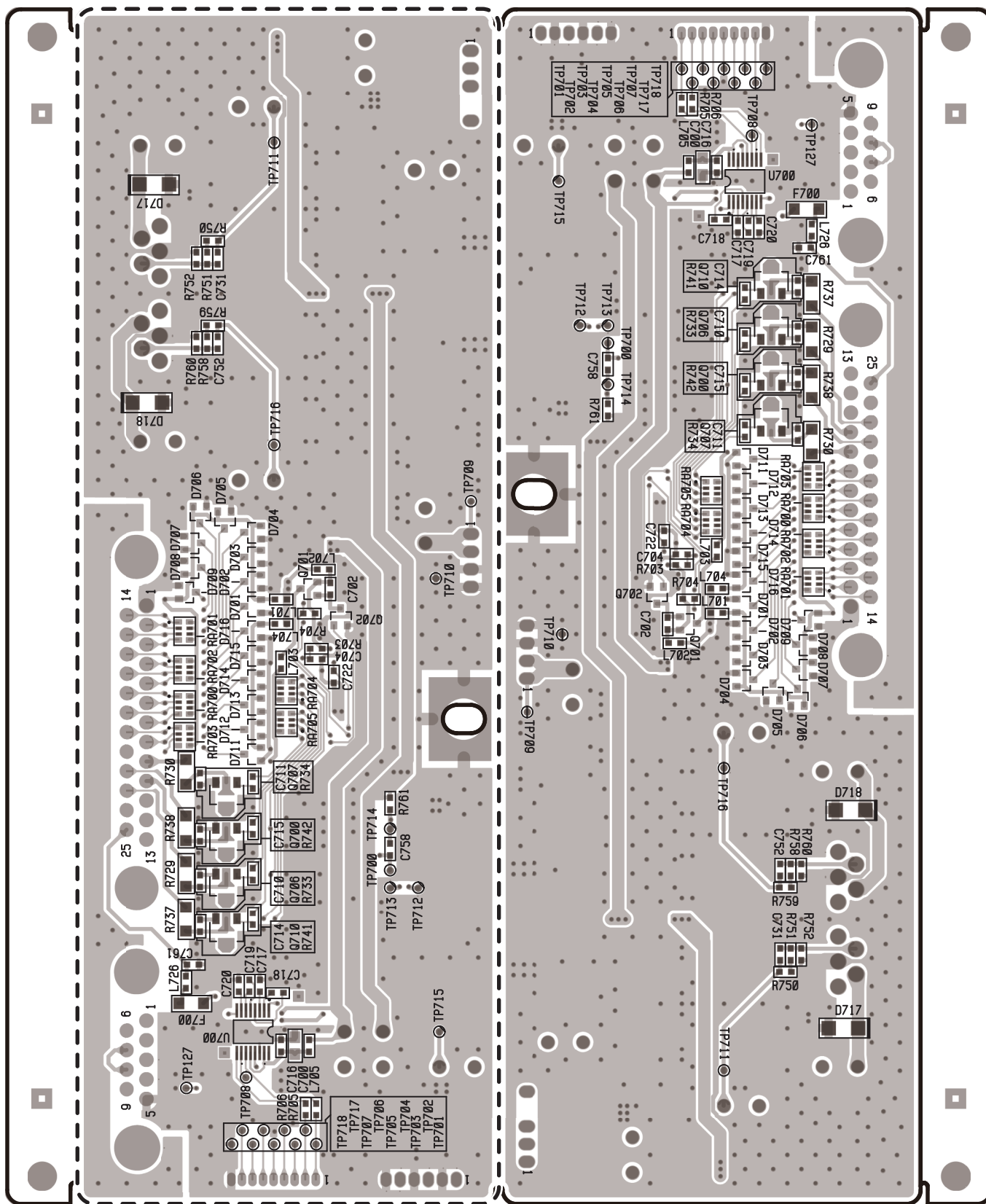
GATHER PCB, IO CD-6010 G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

GATHER PCB,IO CD-6010 G (Side B)

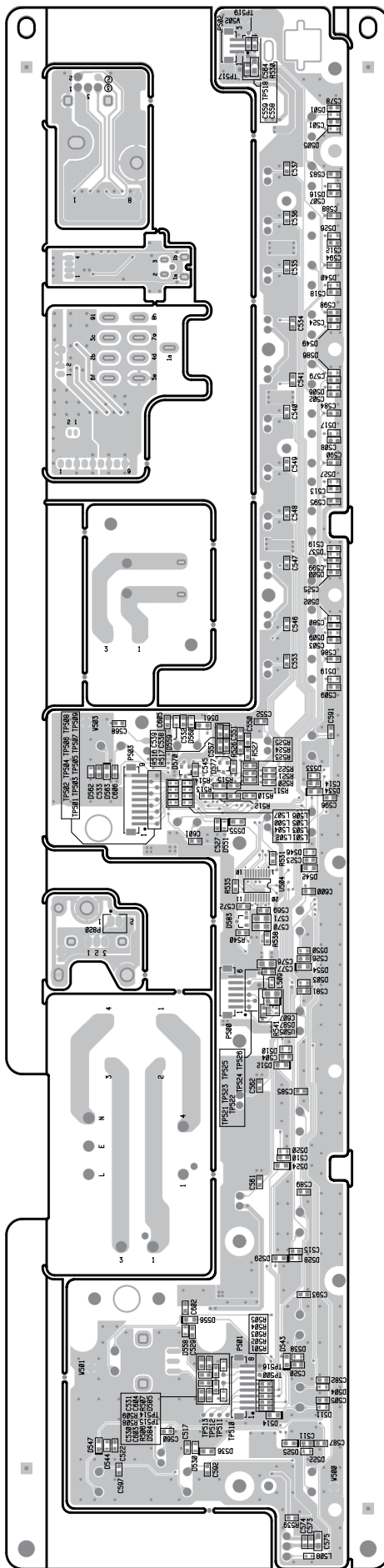


**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

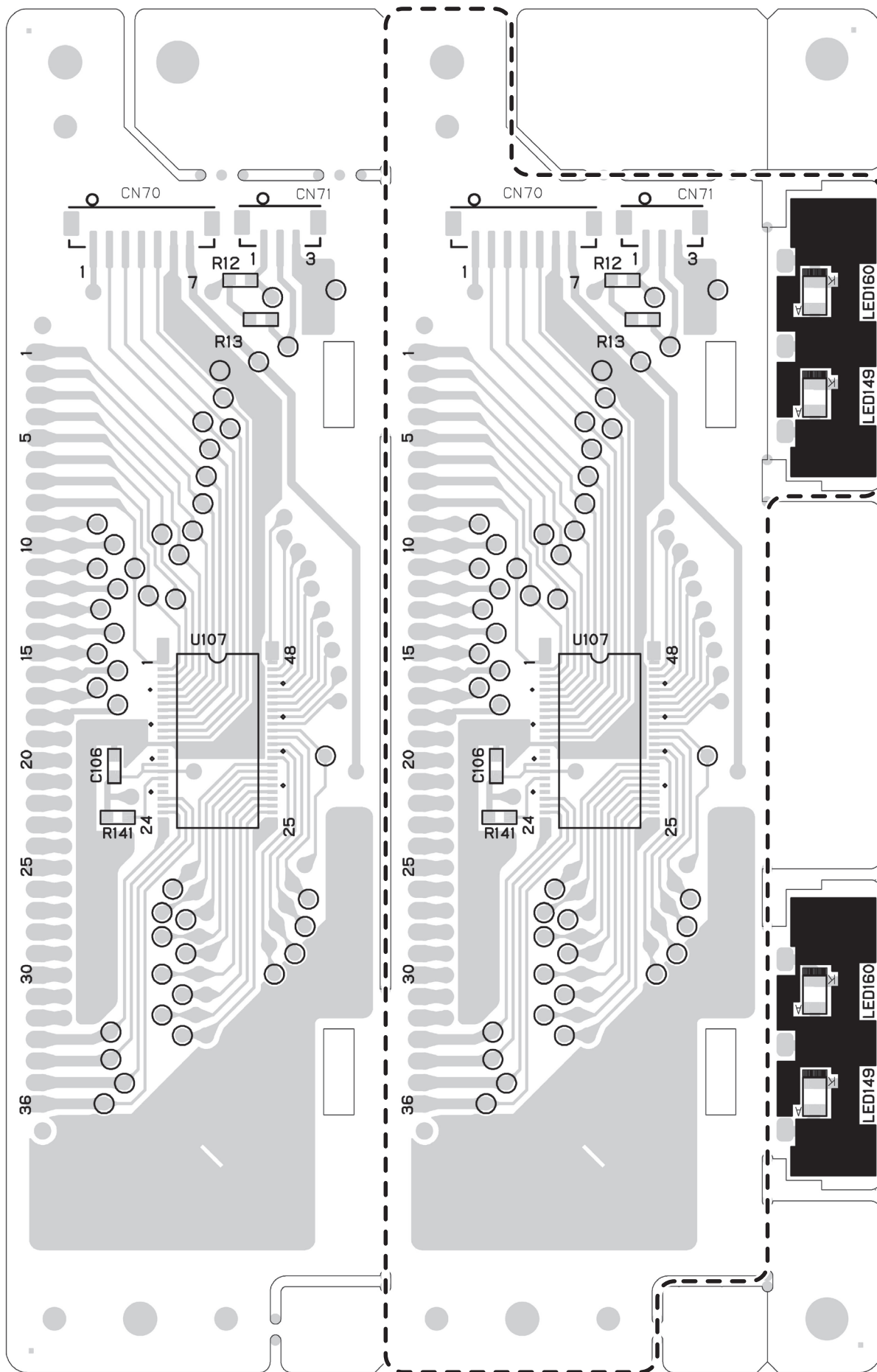
**注意** 破線部分は、太字品番で発注する補修部品になります。



GATHER PCB,FRONT CD-6010 G (Side B)



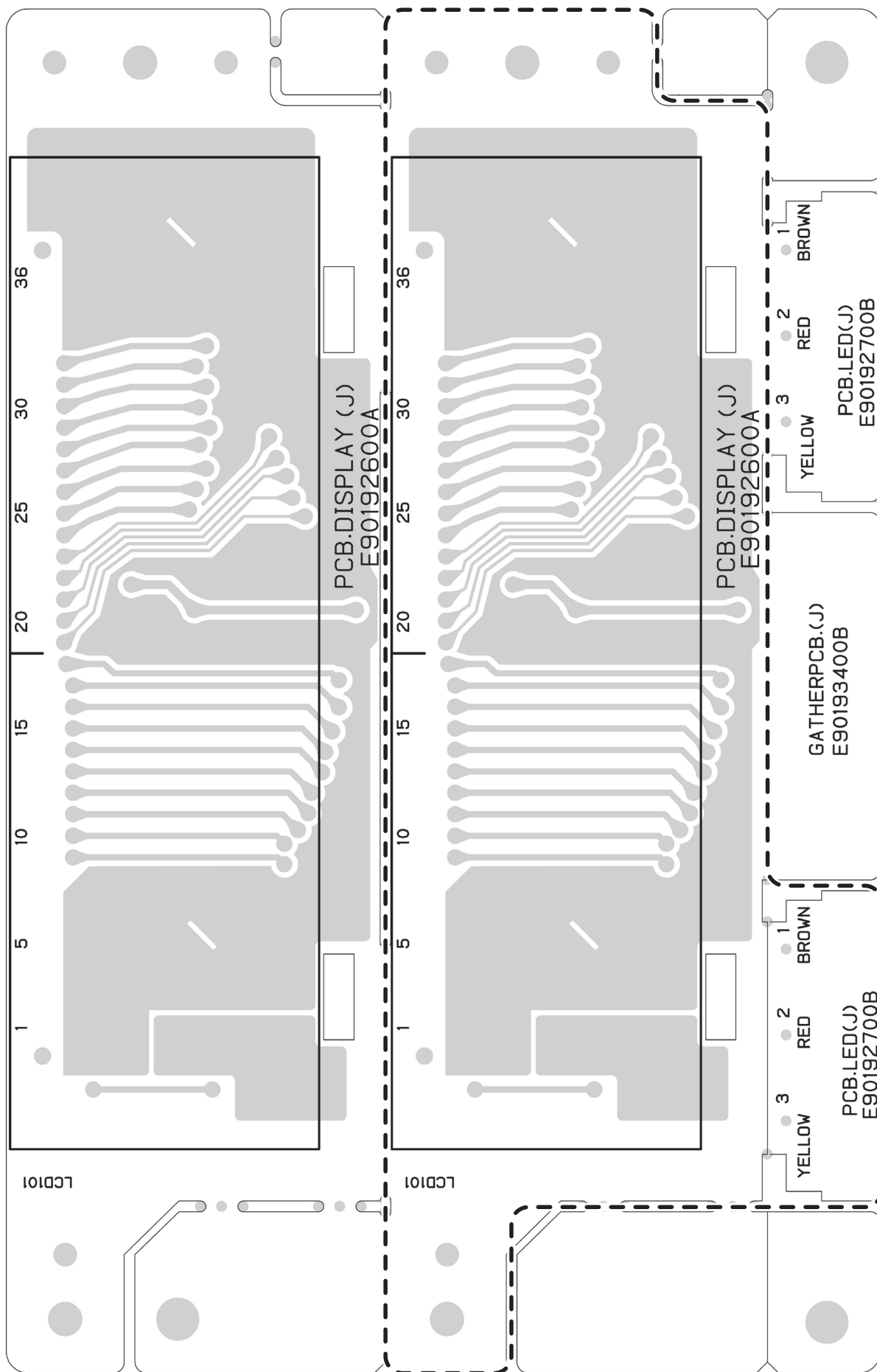
GATHER PCB,J CDX05 G (Side A)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

GATHER PCB,J CDX05 G (Side B)



**CAUTION** The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

**注意** 破線部分は、太字品番で発注する補修部品になります。

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB, MAIN CD-6010 G

#### メイン基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95451500A)	GATHER PCB,MAIN CD-6010 G	For China	L84 - L87	E0126164	BEAD COIL,BLM18PG471SN1D G	
	(E95451554A)	GA PCB,MAIN CHI CD-6010G		L20 - L22	E0176132	FLTR,BL02RN2R3N1A G	
	<b>E95451200A</b>	<b>PCB ASSY,MAIN CD-6010 G</b>		L55	E0176132	FLTR,BL02RN2R3N1A G	
U1, U6	S0065024	IC,BD46285G G		P1	E0123220	CONNECTOR,3675P40VUJO G	
U2	S0089153	IC,M12L2561616A-6T-G2K G		P3	E0101954	CONNECTOR,B6B-PH-SM4(LF) G	
U3	S0075173	IC,MCF5251VM140 G		P4	E0102364	CONNECTOR,B 7B-ZR-SM4(LF)	
U4	S00938000A	IC,ROM ASSY SYS CD-6010 G		P5	E0155260	JACK,NC3MAH(XLR) G	
	S0084573	IC,MX29LV160DBTI-70G G		P6, P7	E0102384	CONN,B 9B-ZR-SM4(LF)(SN) G	
	D01167200A	SOFTWARE SPEC,SYS CD6010 G		P8	E0102374	CONNECTOR,B 8B-ZR-SM4(LF)	
	M01502000A	LABEL, TYPE 12*6(BLANK) G		P9	E0102354	CONN,B 6B-ZR-SM4(LF)(SN)	
U5	E0185104	XTAL OSC,MIN35 33.8688M G		P10	E0102364	CONNECTOR,B 7B-ZR-SM4(LF)	
U7	S0086764	IC,DS8921M/NOPB G		P12, P13	E0155260	JACK,NC3MAH(XLR) G	
U8, U12	S0046854	IC,SN74LV541APWR G		P14	E0101974	CONNECTOR,B8B-PH-SM4(LF)G	
U9	S0064984	IC,BA033FP-E2SMT TAPING G		P15	E0101984	CONNECTOR,B 9B-PH-SM4(LF)	
U10	S0058424	IC,M24512-WMW6TG G		T1	E01651100A	TRANS,PULSE 400UH G	
U11-U14	S0068064	IC,SN74HCT541PW G		T2	E0168384	FLTR,ACM2520-102-2P-T G	
U15	S0076934	IC,SN74AHC1G04DBVRG4 G		J1	E0128300	PIN,RJ-1081-31-0341A G	
U16, U19	S0067634	IC,LIN NJM5532M G		J2	E0179050	JACK,YKC21-4042V G	
U17	S0064654	IC,NJM7805DL1A-TE1 G					
U18	S0092933	IC,AK4480EF G					
U20	S0092184	IC,TPS73801DCQR G					
U21	S0066620	IC,NJM7912FA G					
U23, U24	E0123180	RELAY,RSB-12-S G					
U30, U32	E0123180	RELAY,RSB-12-S G					
U22, U25	S0067634	IC,LIN NJM5532M G					
U27, U29	S0067634	IC,LIN NJM5532M G					
U28	S0083244	IC,SSM2305RMZ G					
U31	S0067634	IC,LIN NJM5532M G					
Q5, Q7, Q9	S0073024	TRANSISTOR,2SC4081 TP G					
Q11 - Q13	S0073024	TRANSISTOR,2SC4081 TP G					
Q14	S0066984	TRANSISTOR,2SA1037AK TP G					
Q15	S0073024	TRANSISTOR,2SC4081 TP G					
D2 D3	S0023224	DIODE,DAN217 T146 G					
D5 D6	S0023224	DIODE,DAN217 T146 G					
D7	S0088214	DIODE,RB060M-30 G					
D9	S0022094	DIODE,1S5355					
D10, D12	S0023224	DIODE,DAN217 T146 G					
D11, D14	S0078414	DIODE,RF071M2STR G					
D13, D15	S0023224	DIODE,DAN217 T146 G					
D17, D18	S0023224	DIODE,DAN217 T146 G					
D19, D21	S0078414	DIODE,RF071M2STR G					
D20, D22	S0023224	DIODE,DAN217 T146 G					
L1 - L15	E0126164	BEAD COIL,BLM18PG471SN1D G					
L16	R0156284	RD,1/10W 33 OHM J0603G					
L17, L19	E0126164	BEAD COIL,BLM18PG471SN1D G					
L23, L25	E0126164	BEAD COIL,BLM18PG471SN1D G					
L24, L26	E0148994	BEAD COIL,MPZ1608S221AT					
L27 - L52	E0126164	BEAD COIL,BLM18PG471SN1D G					
L53, L54	E0148994	BEAD COIL,MPZ1608S221AT					
L62, L63	E0126164	BEAD COIL,BLM18PG471SN1D G					
L64	E0101174	COIL,LQH43CN100K03L G					
L65, L66	E0126164	BEAD COIL,BLM18PG471SN1D G					
L67, L70	E0148994	BEAD COIL,MPZ1608S221AT					
L71, L74	E0148994	BEAD COIL,MPZ1608S221AT					
L75 - L77	E0126164	BEAD COIL,BLM18PG471SN1D G					
L78 - L82	E0148994	BEAD COIL,MPZ1608S221AT					

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,POWER G

#### 電源基板

### GATHER PCB,IO CD-6010 G

#### I/O 基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95451600A)	GATHER PCBA,POWER G			(E95451800A)	GATHER PCBA,IO CD-6010 G	
	(E95451654A)	GATHER PCBA,POWER CHI G	For China		(E95451854A)	GA PCBA,IO CHI CD-6010 G	For China
	<b>E95451400A</b>	<b>PCB ASSY,POWER G</b>			<b>E95451300A</b>	<b>PCB ASSY,IO CD-6010 G</b>	
R2	R0176820	POWER THERMISTOR,16D-13 G	⚠	U700	S0063924	IC,MAX3221CPWR G	
R3	R0185651	RN,METEL1W330K OHM F TP G	⚠	U701	S0075114	IC,R8A66151SP G	
R4	R0171331	RN,METAL1/8W620 OHMFTPG		U705, U707	S0082972	IC,BD9702CP-V5 G	
R5	R0171221	RN,METAL 1/8W 220 OHMFTPG		U706	S0082474	IC,TPS5430DDAR G	
R6	R0154521	RD,1/8W 4.7 OHMJ26MM G	⚠				
R7	R0155091	RD,1/8W 1.5K OHM J 26MMG		Q700	S0038874	TRANSISTOR,2SD2150	
R8	R0171601	RN,METAL1/8W8.2KOHMFTP G		Q701	S0067924	TRANSISTOR,DTA124EKA G	
R9	R0155291	RD,1/8W 10K OHMJ26MMG		Q702	S0059254	TRANSISTOR,DTC124EKA G	
R10	R0205091	RN,METEL1/2W0.5 OHM JTP G	⚠	Q703 - Q710	S0038874	TRANSISTOR,2SD2150	
R11	R0171461	RN,METAL 1/8W 2.2K OHMFTPG		Q711	S0059254	TRANSISTOR,DTC124EKA G	
R12	R0172431	RN,METALOXIDE2W100 OHMJG		Q712	S0086774	FET,RRH075P03 G	
R13	R0155641	RD,1/8W 330K OHMJ26MMG	⚠				
R21	R0231020	RD,1W 1M OHM J G	⚠	D700	S0021344	DIODE,RB160L-40	
R24	R0155641	RD,1/8W 330K OHMJ26MMG	⚠	D701 - D709	S0023224	DIODE,DAN217 T146 G	
				D710	S0071644	DIODE,RB161M-20 G	
C1	C0061832	CQ,100V0.10UFJMYLARTPG		D711 - D716	S0023224	DIODE,DAN217 T146 G	
C2	C0042162	CQ,630V 0.01UF K	⚠	D717, D718	S0038784	DIODE,RB050L-40 G	
C3 C4	C0032860	CC, 250V 2200PF M	⚠				
C5	C0085160	CE,25V 3300UF M FK G	⚠	RA700 - RA703	R0186564	RES ARRAY,10KOHM*4 J G	
C7	C0085150	CE,25V 2200UF M FK G	⚠	RA704, RA705	R0157484	RES ARRAY,4.7K OHM*40603G	
C9	C0059860	CQ,0.22UFAC 250VG	⚠				
C10, C11	C0076090	CQ,0.1UFAC 275V-G	⚠	F700	E0139964	FUSE,NANOSMDC012F G	
C12	C0032860	CC, 250V 2200PF M	⚠				
C14	C0061672	CQ,100V0.022UFJMYLARTPG	⚠	L701 - L706	E0126164	BEAD COIL,BLM18PG471SN1D G	
C15	C0061592	CQ,100V0.010UFJMYLARTPG	⚠	L707	E0176132	FLTR,BL02RN2R3N1A G	
C16	C0085350	CE,63V47UF M RJ3 G	⚠	L708	E0126214	COIL,CDRH6D38-100 10UH G	
C17	C0040510	CC,E 250V 2200PF M KX G	⚠	L709	E0130740	COIL,10UH 3.6A DR2W8*7 G	
	M0338710	COVER,C HU-14 G	⚠	L710, L712	E0176132	FLTR,BL02RN2R3N1A G	
C18	C0085370	CC,2KV 47PF J DEA G	⚠	L711, L713	E0147934	COIL,CDR7D43MNNP-330NC G	
C22	C0095590	CE,400V 220UF M G (LGU2G)	⚠	L714 - L717	E0176132	FLTR,BL02RN2R3N1A G	
				L718	E0172934	COIL,CDRH8D38NP-101NC G	
U1	S0084420	IC,STR-W6252D G	⚠	L719	E0101174	COIL,LQH43CN100K03L G	
	M03072200A	HEAT SINK,16.5*15.5*25 G	⚠	L720, L721	E0126164	BEAD COIL,BLM18PG471SN1D G	
	B00174008A	SCREW,BPA 3*8 FZC G	⚠	L722	E0176132	FLTR,BL02RN2R3N1A G	
U2	S0067070	PHOTO COUPLER,PC123X2YFXG	⚠	L723	E0130740	COIL,10UH 3.6A DR2W8*7 G	
U3	S0073400	IC,TL431CLPR G	⚠	L724 - L726	E0126164	BEAD COIL,BLM18PG471SN1D G	
D1	R0208310	VARISTOR,ERZV14D471 ERZ G	⚠	J700	E0126450	D-SUB,5504F1-25S02-03-F1G	
D2-D5	S0073370	DIODE,EM01A G	⚠	J702	E0123230	D-SUB,5504F1-09S-02-03 G	
D6	S0069140	DIODE,FR 0.7A1000V RG-1CG	⚠				
D7	S0092200	DIODE,RFN10T2D G	⚠				
	3M0084020B	HEAT SINK 45MM G	⚠	P700	E01825400B	HARN ASSY,DC CD-6010 G	
	B00199408A	SCREW,BPB 3*8 FZC G	⚠	P701	E01825300A	HARN ASSY,P12V CD-6010 G	
D9	S0073460	DIODE,UFAST 200V AL01Z G	⚠	P702, P703	E01825500B	HARN ASSY,CD CD-6010 G	
D10	S0083901	ZENER DIO,MT6J5.6B T-77G	⚠				
F1	E0184820	FUSE,250V 1.6A 21501.6P G	⚠				
	E0126350	HOLDER,FUSE HOLDER 5.0 G	⚠				
FG1, FG2	E0123470	TERMINAL,GND-8 G					
L1	E0130740	COIL,10UH 3.6A DR2W8*7 G					
L3	E0127050	COIL,2.2MH 1.3A LF2020G	⚠				
P001	E0112450	CONNECTOR,B2P3VH(LF)(SN) G					
P002, P003	E0102450	CONNECTOR,B4B-EH(LF)(SN)G					
T3	E01678700A	TRANS,SW AS-2822 HS8 G	⚠				

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "( )" 付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,FRONT CD-6010 G

#### フロントパネル基板

REF.NO.	PARTS NO.	DESCRIPTION .		REF.NO.	PARTS NO.	DESCRIPTION .	
	<b>E95451900A</b>	<b>GATHER PCBA,FRONT CD-6010 G</b>		D523 - D525	S0022094	DIODE,1SS355	
	<b>E95451954A</b>	<b>GA PCBA,FRONT CHI CD6010G</b>	For China	D529, D531	S0022094	DIODE,1SS355	
		<i>PCB,AC INLET</i>		D532	S0080034	ZENER DIO,RSB5.6S TE61 G	
L850	(E95452100A)	PCB ASSY,AC_INLET CD-6010 G		D534 - D536	S0022094	DIODE,1SS355	
P850	E0130710	COIL,3.9MH 1.0A LF2020 G	⚠	D539	S0080034	ZENER DIO,RSB5.6S TE61 G	
	E0172860	CONN,CDJ-3-1A G	⚠	D541 - D543	S0022094	DIODE,1SS355	
P851	E01733500B	HARN ASSY,AC-E CD-500 G	⚠	D545, D547	S0022094	DIODE,1SS355	
P852	E01825100A	HARN ASSY,PW_SW CD-6010 G	⚠	D548	S0080034	ZENER DIO,RSB5.6S TE61 G	
	E01825200B	HARN ASSY,AC CD-6010 G	⚠	D552 - D556	S0022094	DIODE,1SS355	
		<i>PCB,AC SW</i>		D557, D559	S0080034	ZENER DIO,RSB5.6S TE61 G	
	(E95452200A)	PCB ASSY,AC_SW CD-6010 G		D561, D563	S0022094	DIODE,1SS355	
C840	E0122630	SPK KILLER,CS12-F2GA472MYAS G	⚠	D570, D577	S0023224	DIODE,DAN217 T146 G	
P840	E0111890	CONN,B2P35-VH(LF)(SN)	⚠	D583	S0023224	DIODE,DAN217 T146 G	
SW840	E0128290	SW,SFDLB11L7U-TK-G	⚠	D584 - D586	S0080034	ZENER DIO,RSB5.6S TE61 G	
		<i>PCB,REM</i>		D587	S0022094	DIODE,1SS355	
	(E95452300A)	PCB ASSY,REM CD-6010 G		L500 - L509	E0126164	BEAD COIL,BLM18PG471SN1D G	
D650	S0080034	ZENER DIO,RSB5.6S TE61 G		P500	E0102354	CONN,B 6B-ZR-SM4(LF)(SN)	
D651	S0023224	DIODE,DAN217 T146 G		P501	E0102374	CONNECTOR,B 8B-ZR-SM4(LF)	
L650, L651	E0126164	BEAD COIL,BLM18PG471SN1D G		P502	E0102324	CONNECTOR,B 3B-ZR-SM4(LF)	
J650	E0130430	JACK,2.5MM LGK2002-0600F		P503	E0102384	CONN,B 9B-ZR-SM4(LF)(SN) G	
P650	E0125404	CONNECTOR,S4B-ZR-3.4 G		SW500 - SW525	E0154372	SW,TACT SKRGAE D010 G	
		<i>PCB,SLIDE</i>		D564	S0068910	LED,ORG SLR-342DU-3F-G	
	(E95452400A)	PCB ASSY,SLIDE CD-6010 G		M0329050		SPACER,LEDH-10 G	
P820	E0119730	CONNECTOR,B 2B-PH-K-S G		D565	S0068910	LED,ORG SLR-342DU-3F-G	
SW820	E0182670	SW,SLIDE SSS5910800 G		M0329050		SPACER,LEDH-10 G	
		<i>PCB,VR</i>		D566	S0068910	LED,ORG SLR-342DU-3F-G	
	(E95452500A)	PCB ASSY,VR CD-6010 G		M0329050		SPACER,LEDH-10 G	
P830	E0101974	CONNECTOR,B8B-PH-SM4(LF)G		D567	S0068910	LED,ORG SLR-342DU-3F-G	
	EZ5452502A	PCB ASSY,T-VR CD-6010 G		M0329050		SPACER,LEDH-10 G	
VR830	R0155900	VAR RES,RK09K12A-20KAG		D568	S0068910	LED,ORG SLR-342DU-3F-G	
		<i>PCB,HP JACK</i>		M0329050		SPACER,LEDH-10 G	
	(E95452600A)	PCB ASSY,HP_JACK CD-6010 G		D569	S0068910	LED,ORG SLR-342DU-3F-G	
L800 - L802	E0126164	BEAD COIL,BLM18PG471SN1D G		M0329050		SPACER,LEDH-10 G	
L803	E0148994	BEAD COIL,MPZ1608S221AT		D571	S0068910	LED,ORG SLR-342DU-3F-G	
L804	E0148994	BEAD COIL,MPZ1608S221AT		M0329050		SPACER,LEDH-10 G	
L805	R0157394	RD,1/10W 0 OHM J0603G		D572	S0068910	LED,ORG SLR-342DU-3F-G	
J800	E0168640	JACK,JY-6315-01-090 G		M0329050		SPACER,LEDH-10 G	
P800	E01826600B	HARN ASSY,SP CD-6010 G		D573	S0068910	LED,ORG SLR-342DU-3F-G	
P801	E01826400A	HARN ASSY,SLIDE CD-6010 G		M0329050		SPACER,LEDH-10 G	
P802	E01826200A	HARN ASSY,HP CD-6010 G		D574	S0068910	LED,ORG SLR-342DU-3F-G	
		<i>PCB,FRONT</i>		M0329050		SPACER,LEDH-10 G	
	(E95452700A)	PCB ASSY,FRONT CD-6010 G		D575	S0021800	LED,SLR-342MG	
U500	E0062220	RMCN RCVR RPM6938-V4 G		M0329050		SPACER,LEDH-10 G	
	3M0266300A	CUSHION 8*8*4 CD-P1260 G		D576	S0068910	LED,ORG SLR-342DU-3F-G	
U501	E0172410	ENCDR,XRE012605PVB25 G		M0329050		SPACER,LEDH-10 G	
U502 - U504	S0093864	IC,SN74AHC374PWR G		D578	S0068910	LED,ORG SLR-342DU-3F-G	
U505	S0090464	IC,HD74LV1G32ACME-E G		M0329050		SPACER,LEDH-10 G	
				D579	S0021800	LED,SLR-342MG	
D501 - D504	S0080034	ZENER DIO,RSB5.6S TE61 G		M0329050		SPACER,LEDH-10 G	
D507, D508	S0022094	DIODE,1SS355		D580	S0068910	LED,ORG SLR-342DU-3F-G	
D512 - D514	S0022094	DIODE,1SS355		M0329050		SPACER,LEDH-10 G	
D515	S0080034	ZENER DIO,RSB5.6S TE61 G		D581	S0068910	LED,ORG SLR-342DU-3F-G	
D518, D521	S0022094	DIODE,1SS355		M0329050		SPACER,LEDH-10 G	
				D582	S0068910	LED,ORG SLR-342DU-3F-G	
				M0329050		SPACER,LEDH-10 G	

**CAUTION** Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

**注意** "()"付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

### GATHER PCB,J CDX05 G

#### LCD基板

REF.NO.	PARTS NO.	DESCRIPTION .	
	(E95193420A)	PCBA,GATHER J CD-500 G	For China
	(E95193454A)	PCBA,GATHER J CHI CD500 G	
	(E95192620A)	PCB ASSY,DISPLAY(J)CD500G	
	<b>V00186600A</b>	<b>PCBA,DISP+LED (J)CD500 G</b>	
U107	S0089444	IC,HT1621-48 G	
R12	R0156524	RD,1/10W 330 OHM J0603G	
R13	R0156524	RD,1/10W 330 OHM J0603G	
	EZ5192612B	PCB ASSY,T-DISP(J)CD-01U G	
LCD101	E01057500A	LCD,TSB2454DBTDPN-SP(4) G	
	M01661800B	HOLDER,LCD G	
	M01661900A	LENS, G	
	M01662000A	SHEET,DIFFUSION G	
	M01662100A	SHEET,REFLECT G	
	M01840600A	SHEET,MIRROR CD-X1500 G	
	M01643200A	SHEET,PANEL FRONT G	
	E95192720A	PCB ASSY,LED(J) CD500 G	
	E90192700B	PCB,LED(J) CDX05	
	EZ5192720A	PCB ASSY,S-LED(J) CD500 G	
LED149	S0089884	LED,NESW455BT G	
LED160	S0089884	LED,NESW455BT G	
	EZ5192702A	PCB ASSY,T-LED(J) CDX05	
J48	E00889400A	HARNES ASSY,E01 G	
	A0007520	STRING SOLDER,0.8 G	
	A0008800	CREAM SOLDER,S70G-SX	

## 9. Included Accessories

付属品

### Included Accessories

REF.NO.	PARTS NO.	DESCRIPTION .	REMARKS
	3E014150	POWER CORD,UL-G	[ E ] ▲
	3E014160	POWER CORD,EUR-G	[ E ] ▲
	3E014170	POWER CORD,UK	[ UK ] ▲
	3E014180	POWER CORD,AUS	[ A ] ▲
	3E039940	POWER CORD,TM G	[ T ] ▲
	E0147010	POWER CORD,UE-96S-239 G	[ CH ] ▲
	E0178290	POWER CORD,KOR C13 1.8M G	[ K ] ▲
	E0168660	AC PLUG,WS-037-A PSE G	
	D01168501A	OWNERS MNL,(J)CD6010 G	[ J ]
	D01168520A	OWNERS MNL,(E)CD6010 G	[ Except J ]
	D01168554A	OWNERS MNL,(C)CD6010 G	[ CH ]
	D01168580A	OWNERS MNL,(G)CD6010 G	[ E ]
	D01168581A	OWNERS MNL,(F)CD6010 G	[ E ]
	D01168582A	OWNERS MNL,(I)CD6010 G	[ E ]
	D01168583A	OWNERS MNL,(S)CD6010 G	[ E ]
	E01736300A	RMT CONT,RC-500 G	
	E0155030	BATTERY,UM4(ENGLISH)G	
	3M0028300A	ASSY,RACK MOUNT SCREW KIT	
	3B0005812A	SCREW,BPA M5X12 (NI)	
	3M0028100A	WASHER-FIBER(BLK)	

#### NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ▲ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
 [ J ] : JAPAN [ US/C ] : U.S.A./CANADA [ K ] : KOREA  
 [ E ] : EUROPE [ UK ] : U.K. [ JEX ] : JAPAN & ASIA  
 [ A ] : AUSTRALIA [ T ] : TAIWAN  
 [ CH ] : CHINA [ ETC ] : U.S.A./CANADA/South America

#### 注意

- プリント基板図は部品面を示しています。
- \*印の部品は納期が若干かかります。あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- ▲印は安全重要部品です。交換する時は必ず指定の部品を使用してください。
- 仕向先  
 [ J ] : JAPAN [ US/C ] : U.S.A./CANADA [ K ] : KOREA  
 [ E ] : EUROPE [ UK ] : U.K. [ JEX ] : JAPAN & ASIA  
 [ A ] : AUSTRALIA [ T ] : TAIWAN  
 [ CH ] : CHINA [ ETC ] : U.S.A./CANADA/South America

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## Updates

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Always use the most recent firmware for this device. Please visit the TEAC Global Site (<http://teac-global.com/>) to check for the latest firmware.

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## New function

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### V1.30 additions

- An end check function has been added. (Menu item 25)
- A time search function has been added. (Menu item 26)

---

### V1.20 additions

- A failsafe function has been added (menu: 23).
- A function has been added that lets you set the status of the unit after disc loading as well as when playback completes (menu: 24).
- In order to shorten the amount of time required to open the disc tray after disc playback, the unit was designed to open the tray while the disc was still rotating. However, the unit can now also stop disc rotation before opening the disc tray.  
After updating to unit firmware to version 1.20, update the drive firmware to version Y.OH.

#### NOTE

*For details, see the "New functions in firmware V1.20" note for the CD-6010.*

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### V1.10 addition

This unit now supports TASCAM RC-900 universal remote control units.

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## Maintenance items

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### V1.30 fix

- Playback of some CDs written using "Track at once" would stop. This has been fixed.

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### V1.21 fixes

- Some MP3 files could not be played back. This has been fixed.
- Some data CDs created using the Mac OS could not be played back. This has been fixed.
- Operation stability has been improved.
- Some CDs with poor-quality data recording could not be played back. This has been fixed.  
After updating to firmware to version 1.20 or later, update the unit to firmware version Y.OJ.

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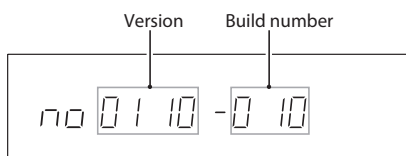
### V1.20 fixes

- If flash loading was conducted from an RC-SS20, this unit or a remote control before the disc was loaded, the disc would load using the number of tracks from the previous disc. This has been fixed.
- When stopped, switching from fader start to fader stop would cause the unit to pause. This has been fixed.
- Operation stability has been improved.

## Confirmation of firmware version

Confirm the firmware version of your CD-6010 before conducting a firmware update.

- 1 Turn the unit's power ON.
- 2 Enter menu mode, and select the 21 INFO menu item. For details, see the "Menu operation basics" section of the "4 – Menu" chapter in the CD-6010 Owner's Manual.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the firmware version shown here is the same or newer than the firmware version that you planned to update to, then there is no need to update it.

## Firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TEAC Global Site (<http://teac-global.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the unit  
Write the downloaded firmware to the disc. (Firmware V1.10 is "CD600110.\*\*\*" where \*\*\* is the three-digit build number.)  
Use ISO 9660 Level 1 (MS-DOS-compatible) Disc At Once format to write the CD-R.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) Confirm that no disc appears on the display, and while simultaneously pressing the main unit **SEARCH** ◀◀ [AUTO CUE] and ▶▶ [AUTO READY] buttons, press the **OPEN/CLOSE** button to open the disc tray.

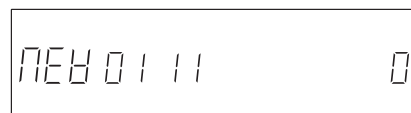
- 3) After confirming that UPDATE IN appears on the display, insert the update data CD.



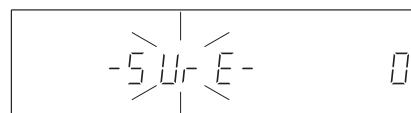
- 4) Press the unit's **TRACK SKIP/DATA** knob once to show OLD XXXX (current version) on the display. Press it again repeatedly to show NEW XXXX (update version), followed by SURE and then UPDATE to start updating.



Current version



Update version



Update confirmation



Updating in progress

- 5) When updating completes, COMPLETE appears on the display and the disc tray opens.

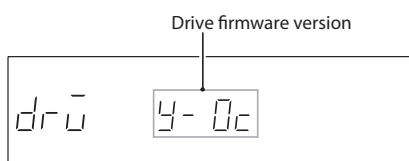


- 6) Eject the update data CD and turn the power off.
- 4 Confirmation of firmware version  
Follow the "Confirmation of firmware version" instructions above to check that the system firmware version is now the most recent version of the firmware. This completes the procedure for updating this unit.

## Checking the drive firmware version

Before conducting a drive firmware update, check the drive firmware version of your CD-6010.

- 1 Turn the unit's power ON.
- 2 After confirming that `no disc` appears on the display, while pressing and holding the **9** and **SHIFT** buttons on the main unit, press the **TRACK SKIP/DATA** knob to show the drive firmware version on the display.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the drive firmware version shown here is the same or newer than the drive firmware version that you are planning to update with, there is no need to update.

## Drive firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

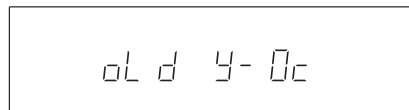
- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the drive  
Write the downloaded firmware to a disc. Write a CD-R or CD-RW disc using ISO 9660 Level 1 (MS-DOS compatible) Disc at Once format.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) After confirming that `no disc` appears on the display, while pressing and holding the **STOP** and **PAUSE** buttons on the main unit, press the **OPEN/CLOSE** button to open the disc tray.

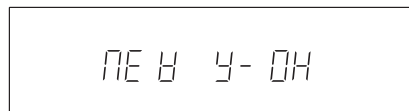
- 3) After confirming that `DRU UPDATE` appears on the display, insert the drive firmware update data CD.



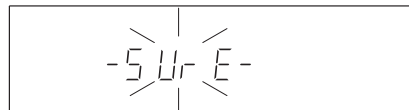
- 4) Press the main unit **TRACK SKIP/DATA** knob repeatedly to view, in order, `OLD XXXX` (current version), `NEW XXXX` (update version) `SURE` (confirming you want to update) and `UPDATE` (updating starts).



Current drive firmware version



Update drive firmware version

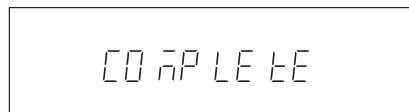


Update confirmation



Updating in progress

- 5) When updating completes, `COMPLETE` appears on the display and the disc tray opens.



- 6) Eject the drive firmware update data CD and turn the power off.
4. Confirm the drive firmware version  
Referring to "Checking the drive firmware version", confirm that the drive firmware version is now the latest one.  
This completes the drive update.

## ファームウェアV1.20の追加機能

### フェールセーフ機能の設定

フェーダースタートかつ再生中の場合に、本体およびリモコンのボタン操作を無効にするフェールセーフ機能を追加しました。

フェールセーフ機能の設定は、メニュー番号 **"23 FSAFE"** で設定します。

#### 選択肢：

- OFF** (初期値) : 無効になるボタンはありません
- 01** : **DISPLAY**、**STOP**、**OPEN/CLOSE**ボタン以外が無効になります。
- 02** : **DISPLAY**ボタン以外が無効になります。

### ディスク読み込み後の状態設定

ディスク読み込み後、および再生終了後の本体の状態を設定する機能を追加しました。

ディスク読み込み後の状態設定は、メニュー番号 **"24 CLOSE"** で設定します。

#### 選択肢：

- STP** (初期値) : ディスク読み込み後、および再生終了後は停止になります。
- PS** : ディスク読み込み後、および再生終了後は一時停止になります。

## New functions in firmware V1.20

### Failsafe function settings

A failsafe function, which disables the buttons on the main unit and the remote control when using fader start and during playback, has been added. Set the failsafe function using the **23 FSAFE** menu item.

#### Setting options

- OFF** (default value): No buttons are disabled.
- 01:** All buttons except the **DISPLAY**, **STOP** and **OPEN/CLOSE** buttons are disabled.
- 02:** All buttons except the **DISPLAY** button are disabled.

### Settings for unit status after disc loading

A function has been added that lets you to set the status of the unit after disc loading as well as when playback completes.

Set the unit status after disc loading using the **24 CLOSE** menu item.

#### Setting options

- STP** (default value): The unit stops after a disc is loaded as well as when playback completes.
- PS:** The unit pauses after a disc is loaded as well as when playback completes.

## Nuevas funciones añadidas en la versión de firmware V1.20

### Ajustes de la función Failsafe

Hemos añadido una función failsafe que desactiva los botones de la unidad principal y del mando a distancia cuando esté usando el disparo por fader y durante la reproducción. Ajuste esta función failsafe usando el elemento de menú **23 FSAFE**.

#### Opciones de ajuste

- OFF** (por defecto): Los botones no son desactivados.
- 01:** Todos los botones son desactivados excepto **DISPLAY**, **STOP** y **OPEN/CLOSE**.
- 02:** Todos los botones son desactivados excepto **DISPLAY**.

### Ajustes del estado de la unidad tras la carga de un disco

Hemos añadido una función que le permite determinar el estado de la unidad después de la carga de un disco, así como cuando termina la reproducción.

Ajuste el estado de la unidad después de la carga del disco usando el elemento de menú **24 CLOSE**.

#### Opciones de ajuste

- STP** (por defecto): La unidad se detiene después de la carga del disco así como una vez que la reproducción termina.
- PS:** La unidad queda en pausa después de la carga del disco y después de terminar la reproducción.

## Neue Funktionen in Firmware-Version 1.20

### Einstellungen für den ausfallsicheren Betrieb

Das Gerät verfügt nun über eine Fail-Safe-Funktion, um das versehentliche Betätigen von Tasten am Gerät oder der Fernbedienung während des Faderstart-Betriebs und während der Wiedergabe zu verhindern. Die Einstellungen für diese Fail-Safe-Funktion nehmen Sie im Menü unter 23 FS SAFE vor.

Auswahlmöglichkeiten

- OFF (Voreinstellung): Tastensperre ausgeschaltet
- 01: Alle Tasten außer **DISPLAY**, **STOP** und **OPEN/CLOSE** sind deaktiviert.
- 02: Alle Tasten außer **DISPLAY** sind deaktiviert.

### Gerätezustand nach dem Laden einer CD

Sie können nun festlegen, welchen Zustand das Gerät nach dem Laden einer CD und am Ende der Wiedergabe annimmt.

Die Einstellungen dafür nehmen Sie im Menü unter 24 CLOSE vor.

Auswahlmöglichkeiten

- STP (Voreinstellung): Das Gerät stoppt nach dem Laden einer CD und am Ende der Wiedergabe.
- PS: Das Gerät schaltet nach dem Laden einer CD und am Ende der Wiedergabe auf Pause.

## Nuove funzioni del firmware V1.20

### Impostazioni della funzione Failsafe

È stata aggiunta una funzione Failsafe (di sicurezza) che disattiva i pulsanti dell'unità principale e del telecomando quando si utilizzano Fader Start e durante la riproduzione. Impostare la funzione Failsafe tramite la voce di menu 23 FS SAFE.

Opzioni di impostazione

- OFF (valore di default): nessun pulsante disabilitato.
- 01: sono disabilitati tutti i pulsanti tranne i pulsanti **DISPLAY**, **STOP** e **OPEN/CLOSE**.
- 02: sono disabilitati tutti i pulsanti tranne il pulsante **DISPLAY**.

### Impostazioni per lo stato dell'unità dopo il caricamento del disco

È stata aggiunta una funzione che permette di impostare lo stato della macchina dopo il caricamento del disco, così come al termine della riproduzione.

Impostare lo stato di unità dopo il caricamento del disco tramite la voce di menu 24 CLOSE.

Opzioni di impostazione

- STP (valore di default): L'unità si ferma dopo aver caricato un disco, così come quando la riproduzione termina.
- PS: L'unità si mette in pausa dopo aver caricato un disco, così come quando la riproduzione termina.

## Nouvelles fonctions du firmware V1.20

### Réglages de la fonction de sécurité intégrée

Une fonction de sécurité intégrée (« Failsafe »), qui désactive les touches de l'unité principale et de la télécommande quand on utilise le démarrage au fader et durant la lecture, a été ajoutée. Réglez la fonction de sécurité intégrée au moyen de la rubrique de menu 23 FS SAFE.

Options de réglage

- OFF (par défaut) : Aucune touche n'est désactivée.
- 01 : Toutes les touches sauf les touches **DISPLAY**, **STOP** et **OPEN/CLOSE** sont désactivées.
- 02 : Toutes les touches sauf la touche **DISPLAY** sont désactivées.

### Réglages de statut de l'unité après chargement d'un disque

Une fonction a été ajoutée pour vous permettre de choisir le statut de l'unité après le chargement d'un disque ainsi qu'une fois la lecture terminée.

Réglez le statut de l'unité après chargement d'un disque au moyen de la rubrique de menu 24 CLOSE.

Options de réglage

- STP (par défaut) : L'unité s'arrête après chargement d'un disque ainsi qu'une fois la lecture terminée.
- PS : L'unité se met en pause après chargement d'un disque ainsi qu'une fois la lecture terminée.

## Functions added in firmware V1.30

### End check function

An end check function has been added that allows you to check the ends of tracks. This is useful when you want to check how a track ends.

#### Setting the amount of time checked

Set how many seconds before the end of the track playback should start with this function. Use the "25 END-C" menu item to set the number of seconds before the end of the track.

Setting range: 5 (default) – 35 (in 5 second intervals)

#### Using this function

To start end check playback of the currently selected track (for the number of seconds set above), during playback or when paused, press and hold the **|| [PAUSE]** button and press the **▶ [PLAY]** button on the main unit or press the ENTER button on the remote control.

After playback completes, the unit returns to the call point (the point when playback last started) and pauses playback.

#### NOTE

- *The end check function cannot be used with data CDs.*
- *During A-B repeat playback, end check playback will start the set number of seconds before the B point, and the unit will pause at the A point when playback completes.*

### Time search function

A time search function has been added that enables locating to a designated time from the start of a track.

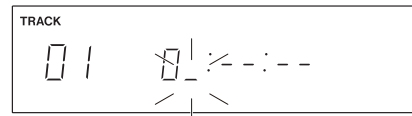
#### Setting the time search function

Use the "26 NUM-B" menu item to set the time search function.

#### Options

TR (default): The time search function is disabled. Press a number button to directly select a track.

TI: The time search function is enabled. Press a number button to activate time search mode. The input position is shown with a blinking "\_" (underbar).



Display during time search mode

#### Using this function

When time search mode is active, use the number buttons on the main unit or remote control to input minutes, seconds and frames (two digits each). When input is complete, the unit locates to the designated time. After locating, the unit will pause if it had been stopped or paused before or it will continue playback if it had been playing before.

#### NOTE

- *The time search function cannot be used with data CDs.*
- *The time search function cannot be used when the cue mode or flash start function is enabled.*
- *When the time search function is set to "TI", the number buttons on the main unit and the remote control cannot be used to select tracks.*
- *Press the CLEAR button on the main unit or the remote control to clear an input time.*
- *If the "17 FRAME" menu item is set to "OFF", only minutes and seconds can be input (frame input is not possible).*

## Updates

Always use the most recent firmware for this device. Please visit the TASCAM web site at <http://tascam.com/> to check for the latest firmware.

## New function

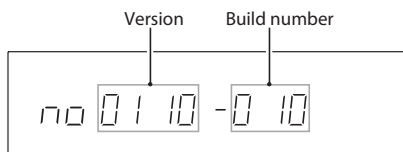
### V1.10 addition

This unit now supports TASCAM RC-900 universal remote control units.

## Confirmation of firmware version

Confirm the firmware version of your CD-6010 before conducting a firmware update.

- 1 Turn the unit's power ON.
- 2 Enter menu mode, and select the **21 INFO** menu item. For details, see the "Menu operation basics" section of the "4 – Menu" chapter in the CD-6010 Owner's Manual.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the firmware version shown here is the same or newer than the firmware version that you planned to update to, then there is no need to update it.

## Firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the unit  
Write the downloaded firmware to the disc. (Firmware V1.10 is "CD600110.\*\*\*" where \*\*\* is the three-digit build number.)  
Use ISO 9660 Level 1 (MS-DOS-compatible) Disc At Once format to write the CD-R.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) Confirm that **no disc** appears on the display, and while simultaneously pressing the main unit **SEARCH ◀ [AUTO CUE]** and **▶ [AUTO READY]** buttons, press the **OPEN/CLOSE** button to open the disc tray.
  - 3) Confirm that **UPDATE IN** appears on the display, and put the data CD with the updater into the disc tray. Then, press the **OPEN/CLOSE** button to close the disc tray.

- 4) Press the unit's **TRACK SKIP/DATA** knob once to show **OLD XXXX** (current version) on the display. Press it again repeatedly to show **NEW XXXX** (update version), followed by **SURE** and then **UPDATE** to start updating.

The LCD display shows the text "OLD 0110 -0 10 0" in a seven-segment font. The "OLD" is on the left, followed by "0110", a hyphen, "0 10", and a final "0" on the right.

Current version

The LCD display shows the text "NEW 0111 0" in a seven-segment font. "NEW" is on the left, followed by "0111" and a "0" on the right.

Update version

The LCD display shows the text "-S U R E-" in a seven-segment font. The characters are spaced out with dashes on either side.

Update confirmation

The LCD display shows the text "UP DATE 50" in a seven-segment font. "UP DATE" is on the left and "50" is on the right.

Updating in progress

- 5) When updating completes, **COMPLETE** appears on the display and the disc tray opens.

The LCD display shows the text "COMPLETE 100" in a seven-segment font. "COMPLETE" is on the left and "100" is on the right.

- 6) Remove the data CD with the updater and press the **OPEN/CLOSE** button to close the disc tray. Then, turn the power OFF.
- 4 Confirmation of firmware version  
Follow the "Confirmation of firmware version" instructions above to check that the system firmware version is now the most recent version of the firmware. This completes the procedure for updating this unit.

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## Updates

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Always use the most recent firmware for this device. Please visit the TASCAM web site at <http://tascam.com/> to check for the latest firmware.

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## New function

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### V1.20 additions

- A failsafe function has been added (menu: 23).
- A function has been added that lets you set the status of the unit after disc loading as well as when playback completes (menu: 24).
- In order to shorten the amount of time required to open the disc tray after disc playback, the unit was designed to open the tray while the disc was still rotating. However, the unit can now also stop disc rotation before opening the disc tray. If this feature is needed, update the drive firmware.  
After updating to unit firmware to version 1.20, update the drive firmware to version Y.0H.

#### NOTE

*For details, see the "New functions in firmware V1.20" note for the CD-6010.*

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### V1.10 addition

This unit now supports TASCAM RC-900 universal remote control units.

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## Maintenance items

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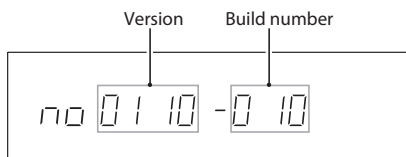
### V1.20 fixes

- If flash loading was conducted from an RC-SS20, this unit or a remote control before the disc was loaded, the disc would load using the number of tracks from the previous disc. This has been fixed.
- When stopped, switching from fader start to fader stop would cause the unit to pause. This has been fixed.
- Operation stability has been improved.

## Confirmation of firmware version

Confirm the firmware version of your CD-6010 before conducting a firmware update.

- 1 Turn the unit's power ON.
- 2 Enter menu mode, and select the **21 INFO** menu item. For details, see the "Menu operation basics" section of the "4 – Menu" chapter in the CD-6010 Owner's Manual.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the firmware version shown here is the same or newer than the firmware version that you planned to update to, then there is no need to update it.

## Firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the unit  
Write the downloaded firmware to the disc. (Firmware V1.10 is "CD600110.\*\*\*" where \*\*\* is the three-digit build number.)  
Use ISO 9660 Level 1 (MS-DOS-compatible) Disc At Once format to write the CD-R.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) Confirm that **no disc** appears on the display, and while simultaneously pressing the main unit **SEARCH** **◀** **[AUTO CUE]** and **▶** **[AUTO READY]** buttons, press the **OPEN/CLOSE** button to open the disc tray.

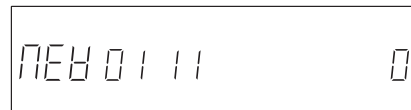
- 3) After confirming that **UPDATE IN** appears on the display, insert the update data CD.



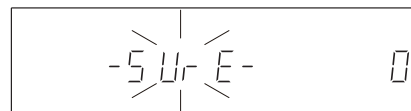
- 4) Press the unit's **TRACK SKIP/DATA** knob once to show **OLD XXXX** (current version) on the display. Press it again repeatedly to show **NEW XXXX** (update version), followed by **SURE** and then **UPDATE** to start updating.



Current version



Update version



Update confirmation



Updating in progress

- 5) When updating completes, **COMPLETE** appears on the display and the disc tray opens.

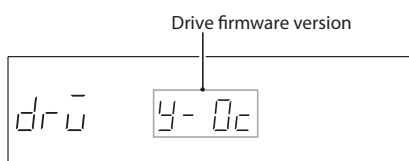


- 6) Eject the update data CD and turn the power off.
- 4 Confirmation of firmware version  
Follow the "Confirmation of firmware version" instructions above to check that the system firmware version is now the most recent version of the firmware. This completes the procedure for updating this unit.

## Checking the drive firmware version

Before conducting a drive firmware update, check the drive firmware version of your CD-6010.

- 1 Turn the unit's power ON.
- 2 After confirming that `no disc` appears on the display, while pressing and holding the **9** and **SHIFT** buttons on the main unit, press the **TRACK SKIP/DATA** knob to show the drive firmware version on the display.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the drive firmware version shown here is the same or newer than the drive firmware version that you are planning to update with, there is no need to update.

## Drive firmware update procedures

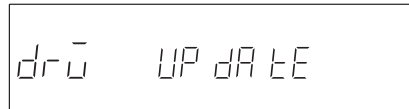
Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

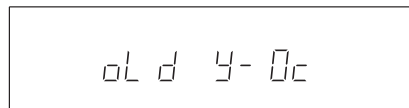
- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the drive  
Write the downloaded firmware to a disc. Write a CD-R or CD-RW disc using ISO 9660 Level 1 (MS-DOS compatible) Disc at Once format.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) After confirming that `no disc` appears on the display, while pressing and holding the **STOP** and **PAUSE** buttons on the main unit, press the **OPEN/CLOSE** button to open the disc tray.

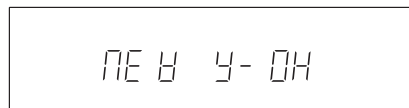
- 3) After confirming that `DRU UPDATE` appears on the display, insert the drive firmware update data CD.



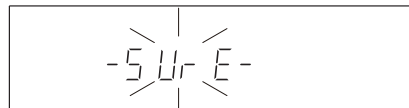
- 4) Press the main unit **TRACK SKIP/DATA** knob repeatedly to view, in order, `OLD XXXX` (current version), `NEW XXXX` (update version) `SURE` (confirming you want to update) and `UPDATE` (updating starts).



Current drive firmware version



Update drive firmware version

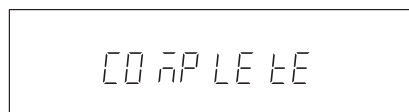


Update confirmation



Updating in progress

- 5) When updating completes, `COMPLETE` appears on the display and the disc tray opens.



- 6) Eject the drive firmware update data CD and turn the power off.
4. Confirm the drive firmware version  
Referring to "Checking the drive firmware version", confirm that the drive firmware version is now the latest one.  
This completes the drive update.

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## Updates

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Always use the most recent firmware for this device. Please visit the TASCAM web site at <http://tascam.com/> to check for the latest firmware.

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## New function

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### V1.20 additions

- A failsafe function has been added (menu: 23).
- A function has been added that lets you set the status of the unit after disc loading as well as when playback completes (menu: 24).
- In order to shorten the amount of time required to open the disc tray after disc playback, the unit was designed to open the tray while the disc was still rotating. However, the unit can now also stop disc rotation before opening the disc tray.  
After updating to unit firmware to version 1.20, update the drive firmware to version Y.0H.

#### NOTE

*For details, see the "New functions in firmware V1.20" note for the CD-6010.*

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### V1.10 addition

This unit now supports TASCAM RC-900 universal remote control units.

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## Maintenance items

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### V1.21 fixes

- Some MP3 files could not be played back. This has been fixed.
- Some data CDs created using the Mac OS could not be played back. This has been fixed.
- Operation stability has been improved.
- Some CDs with poor-quality data recording could not be played back. This has been fixed.  
After updating to firmware to version 1.20 or later, update the unit to firmware version Y.0J.

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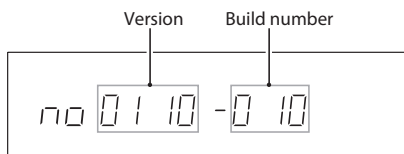
### V1.20 fixes

- If flash loading was conducted from an RC-SS20, this unit or a remote control before the disc was loaded, the disc would load using the number of tracks from the previous disc. This has been fixed.
- When stopped, switching from fader start to fader stop would cause the unit to pause. This has been fixed.
- Operation stability has been improved.

## Confirmation of firmware version

Confirm the firmware version of your CD-6010 before conducting a firmware update.

- 1 Turn the unit's power ON.
- 2 Enter menu mode, and select the 21 INFO menu item. For details, see the "Menu operation basics" section of the "4 – Menu" chapter in the CD-6010 Owner's Manual.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the firmware version shown here is the same or newer than the firmware version that you planned to update to, then there is no need to update it.

## Firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the unit  
Write the downloaded firmware to the disc. (Firmware V1.10 is "CD600110.\*\*\*" where \*\*\* is the three-digit build number.)  
Use ISO 9660 Level 1 (MS-DOS-compatible) Disc At Once format to write the CD-R.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) Confirm that no disc appears on the display, and while simultaneously pressing the main unit **SEARCH** ◀◀ [AUTO CUE] and ▶▶ [AUTO READY] buttons, press the **OPEN/CLOSE** button to open the disc tray.

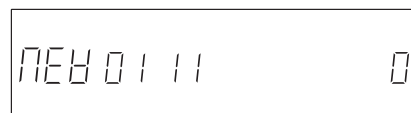
- 3) After confirming that UPDATE IN appears on the display, insert the update data CD.



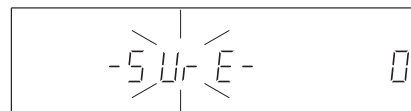
- 4) Press the unit's **TRACK SKIP/DATA** knob once to show OLD XXXX (current version) on the display. Press it again repeatedly to show NEW XXXX (update version), followed by SURE and then UPDATE to start updating.



Current version



Update version



Update confirmation



Updating in progress

- 5) When updating completes, COMPLETE appears on the display and the disc tray opens.

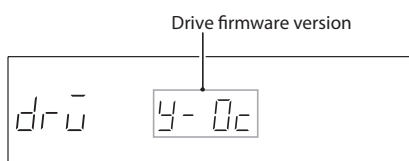


- 6) Eject the update data CD and turn the power off.
- 4 Confirmation of firmware version  
Follow the "Confirmation of firmware version" instructions above to check that the system firmware version is now the most recent version of the firmware. This completes the procedure for updating this unit.

## Checking the drive firmware version

Before conducting a drive firmware update, check the drive firmware version of your CD-6010.

- 1 Turn the unit's power ON.
- 2 After confirming that `no disc` appears on the display, while pressing and holding the **9** and **SHIFT** buttons on the main unit, press the **TRACK SKIP/DATA** knob to show the drive firmware version on the display.
- 3 Press the **TRACK SKIP/DATA** knob on the main unit or the **ENTER** button on the remote control to show the system firmware version on the display.



If the drive firmware version shown here is the same or newer than the drive firmware version that you are planning to update with, there is no need to update.

## Drive firmware update procedures

Prepare a completely blank CD-R and a computer that can create a data CD.

### CAUTION

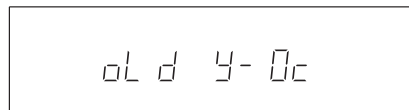
- *CD-RW discs cannot be used for firmware update discs.*
- *Be very careful not to cut the power to the unit during firmware updating. If the power should be interrupted during firmware updating, the unit could become unstartable or otherwise damaged.*

- 1 Download the file  
Download the latest firmware from the TASCAM website (<http://tascam.com/>). Uncompress the downloaded file if it is in a ZIP format or otherwise compressed.
- 2 Create a data CD for updating the drive  
Write the downloaded firmware to a disc. Write a CD-R or CD-RW disc using ISO 9660 Level 1 (MS-DOS compatible) Disc at Once format.
- 3 Update the firmware
  - 1) Turn the unit's power on.
  - 2) After confirming that `no disc` appears on the display, while pressing and holding the **STOP** and **PAUSE** buttons on the main unit, press the **OPEN/CLOSE** button to open the disc tray.

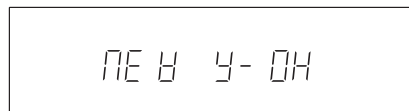
- 3) After confirming that `DRU UPDATE` appears on the display, insert the drive firmware update data CD.



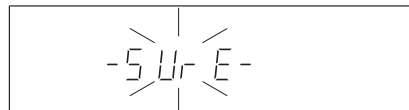
- 4) Press the main unit **TRACK SKIP/DATA** knob repeatedly to view, in order, `OLD XXXX` (current version), `NEW XXXX` (update version) `SURE` (confirming you want to update) and `UPDATE` (updating starts).



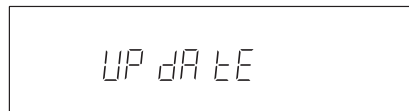
Current drive firmware version



Update drive firmware version

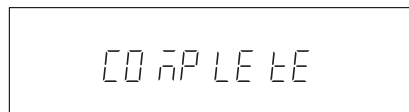


Update confirmation



Updating in progress

- 5) When updating completes, `COMPLETE` appears on the display and the disc tray opens.



- 6) Eject the drive firmware update data CD and turn the power off.
4. Confirm the drive firmware version  
Referring to "Checking the drive firmware version", confirm that the drive firmware version is now the latest one.  
This completes the drive update.