

# TASCAM

TEAC Professional Division



## SERVICE MANUAL

# CD-01U/CD-01U *Professional* CD PLAYER



### CONTENTS

1. SAFETY INFORMATION .....	2
2. Specification .....	3
3. Test Mode and Special Operatins .....	5
4. Error Messages Explained .....	7
5. Exploded views and Parts List .....	9
6. PC Boards and Parts List .....	11
7. Included Accessories .....	23

### 目次

1. SAFETY INFORMATION .....	2
2. 仕様 .....	3
3. テストモード及び特殊操作 .....	5
4. エラーメッセージ一覧 .....	7
5. 分解図とパーツリスト .....	9
6. 基板図とパーツリスト .....	11
7. 付属品 .....	23

### 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.

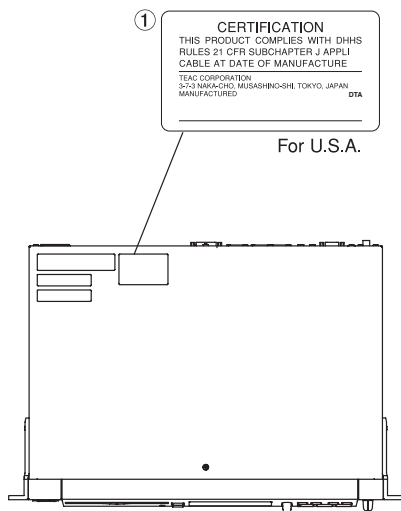
# 1. SAFETY INFORMATION

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 ①.

## ● CAUTION

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



### Optical pickup:

Type: KSM-900AKI  
 Manufacturer: SONY Corporation  
 Laser output: Less than 0.5 mW on the objective lens  
 Wavelength: 775 to 815 nm

## 2. SPECIFICATIONS

### 仕様

Type:	Compact Disc player
Discs:	8 or 12cm (3.1 to 4.7inch) CD, CD-R/CD-RW
Formats:	Audio CD (CD-DA), MP3
Number of channels:	2-channel
Resolution:	16-bit
Sampling frequency:	44.1kHz

#### Analog line outputs

##### Analog line outputs(Unbalanced)

Connectors:	RCA
Nominal output level	- 10dBV
Maximum Output level:	+6 dBV
Output impedance:	1k $\Omega$

##### Analog line outputs(Balanced) [CD-01U Pro only]

Connectors:	XLR-3-32 (1:GND, 2:HOT, 3:COLD)
Nominal output level	+ 4dBU
Maximum Output level:	+20 dBU
Output impedance:	150 $\Omega$

#### Headphones

Connectors:	standard stereo jack
Maximum Output level:	20 mW + 20 mW
Load impedance:	32 $\Omega$

#### Digital output(Optical)

Connectors:	Optical
Format:	IEC60958-3 (S/PDIF)

#### Digital output (AES/EBU, CD-01U PRO only)

Connector:	XLR-3-32
Format:	IEC60958-4 (AES/EBU)

Frequency response:	20Hz to 20kHz +0.5/- 1.0dB
S/N ratio:	> 95dB (20kHz LPF A-WTD)
Dynamic range:	> 98dB (20kHz LPF A-WTD)
Total harmonic distortion:	< 0.01% (200Hz HPF, 20kHz LPF)

#### 定格仕様/特性

##### 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(12 cm, 8 cm)
再生可能ディスク:	CD / CD-R / CD-RW
再生可能フォーマット:	オーディオCD (CD-DA)、MP3
音声チャンネル数:	2 チャンネル
量子化ビット数:	16 ビット/チャンネル
サンプリング周波数:	44.1kHz

##### アナログ出力定格

###### ANALOG OUTPUT (アンバランス)

コネクター:	RCA
規定出力レベル:	- 10dBV
最大出力レベル:	+6dBV
出カインピーダンス:	1k $\Omega$ 以下

###### ANALOG OUTPUT (BALANCED) [CD-01U PRO のみ]

コネクター:	XLR 3-32 相当 (2 番ホット)
規定出力レベル:	+ 4dBU
最大出力レベル:	+20dBU
出カインピーダンス:	150 $\Omega$

##### PHONES 出力

コネクター:	ステレオホンジャック
最大出力レベル:	20mW + 20mW (32 $\Omega$ 負荷時)

##### デジタル出力定格

###### DIGITAL OUTPUT (OPTICAL)

コネクター:	オプティカル
フォーマット:	IEC60958-3 (S/PDIF)

###### DIGITAL OUTPUT (AES/EBU) [CD-01U PRO のみ]

コネクター:	XLR 3-32 相当
フォーマット:	IEC60958-4 (AES/EBU)
出カインピーダンス:	110 $\Omega$

##### アナログ出力電気的特性

再生周波数特性:	20 ~ 20kHz, + 0.5dB/- 1.0dB
S/N 比:	95dB 以上(20kHz LPF + A-weighted)
ダイナミックレンジ:	98dB 以上(20kHz LPF, A-weighted)
歪率 (THD+N):	0.01 %以下(200Hz HPF + 20kHz LPF)
チャンネルセパレーション:	90dB 以上 [1kHz]
ワウフラッター:	測定限界値以下

Channel separation: > 90 dB (at 1 kHz)  
 Wow and flutter: Below measurable limits (less than 0.001%)

**Voltage requirements:**

USA/CANADA: 120 CVAC, 60 Hz  
 U.K./Europe: 230 VAC, 50Hz  
 Australia: 240 VAC, 50Hz

Power consumption: 9 W (CD-01U)  
 11 W (CD-01U PRO)

Dimensions: 482.6 x 50 x 333.9 mm  
 19 x 2 x 13.1 (in)

Weight: 3.5 kg (7.7 lbs)(CD-01U)  
 3.7 kg (8.1 lbs)(CD-01U Pro)

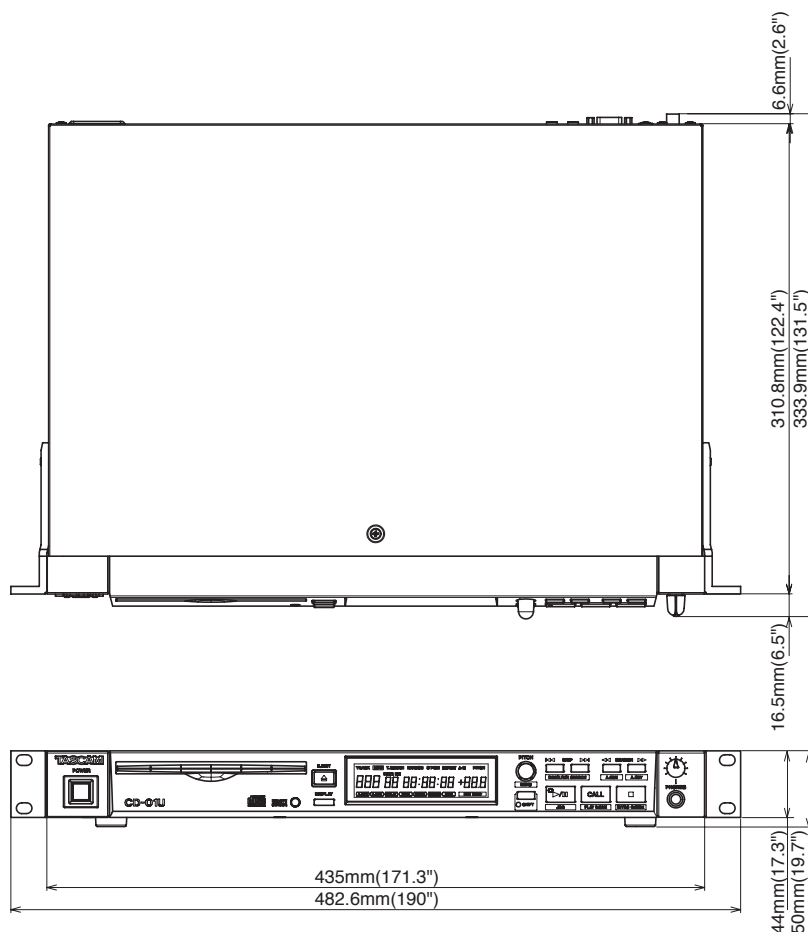
Operating temperature range: 5 to 40 degrees C (41° F to 104° F)

- \* For product improvement, specifications and external appearance are subject to change without notice.
- \* Due to product improvement, the actual unit may appear differently than illustrations in the operation manual.

**一般仕様**

電源: AC100 V、50/60 Hz  
 消費電力: 9W (CD-01U)、11W (CD-01U PRO)  
 外形寸法: 482.6(幅)×50(高さ)×333.9(奥行)(mm)  
 質量: 3.5kg (CD-01U)、  
 3.7kg (CD-01U PRO)  
 動作温度: 5 ~ 40 °C  
 設置時傾斜: 5 度以内  
 付属品: リモコン(× 1)、単四電池(× 2)、  
 電源コード(× 1)、取扱説明書(× 1)、  
 ラックマウントビスキット(× 1)、  
 保証書(× 1)

- \* 仕様および外観は、改善のため予告なく変更することがあります。
- \* 製品の改善により、取扱説明書のイラストなどが、一部製品と異なることがあります。あらかじめご了承ください。

**Dimensional drawing****外形寸法図**

## 3. TEST MODES AND SPECIAL OPERATIONS

### テストモード及び特殊操作

#### 1 CD TEST Mode

- 1) With no disc loaded, press and hold down the ◀◀ and ▶▶ keys and press the PITCH dial and the display reads "CD TEST", to show that CD TEST mode is enabled.
- 2) Insert a test disc (MCD-111A) and press the PLAY key to let the unit play back the disc.
- 3) Then, with each press of the DISPLAY key, the LCD readout changes, allowing you to check the following:
  - A.CUE: Time display
  - A.RDY: F.BIAS, T.GAIN, F.GAIN
  - RELAY: C1/C2 Error Rate
  - FADE: JITTER value, RFDC signal amplitude
  - MONO: VC ave., RF ave., FE ave., TE ave.
- 4) Pressing the CALL key enables to change the playback speed between 1 time and 2 times
  - SINGLE/on: 1 time speed
  - SINGLE/off: 2 times speed
  - \* SINGLE/on: 1 time speed is default for laboratory test.
  - Use at the SINGLE/off: 2 times speed for normal purpose.
- 5) To quit TEST MODE, switch off the power.

#### 2. Panel Checks and Other Test Modes

Following the instructions below with no disc loaded enables these individual test modes.

##### 1) LCD Check

Press and hold down the STOP and DISPLAY keys and press the PITCH dial and LCD check mode is enabled and, if there are no error conditions, the LCD and LEDs are all illuminated.

##### 2) Checking on Keys and Pitch Dial

Press and hold down the STOP and CALL keys and press the PITCH dial and Pitch Dial check mode is enabled. Press the keys in sequence. The parallel port can also be checked.

As you check the keys, turning the PITCH dial clockwise increases the number display in the LCD and turning the dial counterclockwise decreases the displayed number.

Key assignment	Parallel Port
01 EJECT	PIN01 ◀◀
02 DISPLAY	PIN02 ▶▶
03 SKIP ◀◀	PIN03 ◀◀
04 SKIP ▶▶	PIN04 ▶▶
05 SEARCH ◀◀	PIN05 FADER START/STOP
06 SEARCH ▶▶	PIN06 STOP
07 SHIFT	PIN07 PLAY
08 PLAY	PIN08 READY
09 CALL	
10 STOP	

#### 1. CD テストモード

- 1) DISCを入れない状態で、◀◀+▶▶キーを押しながら、PITCHダイヤルを押すと“CD TEST”を表示し、CDテストモードになります。
- 2) TEST DISC (MCD-111A)を入れて、PLAYキーを押し再生状態にします。
- 3) 次にDISPLAYキーを押すと、押す毎にLCD表示が切り替わり、下記の項目の確認が出来ます。
  - A.CUE: 時間表示
  - A.RDY: F.BIAS, T.GAIN, F.GAIN
  - RELAY: C1, C2 ErrorRate
  - FADE: JITTER値、RFDC信号振幅
  - MONO: VC ave, RF ave、FE ave、TE ave
- 4) CALLキーを押すと、1倍速再生・2倍速再生の切り換えが出来ます。
  - SINGLE/on: 1倍速
  - SINGLE/off: 2倍速
  - \* SINGLE/on: 1倍速が工場用のデフォルトになっています。通常は、SINGLE/off: 2倍速の設定で使用します。
- 5) テストモードを終了する時は、電源を切ります。

#### 2. PANEL部チェック及びその他テストモード

DISCを入れない状態で、下記の操作をする事により各モードに直接入る事が出来ます。

##### 1) LCD チェック

STOP+DISPLAYキーを押しながらPITCHダイヤルを押すとLCDチェックモードになり、正常であればLCD/LEDが全点灯します。

##### 2) KEY、Pitch dial チェック

STOP+CALLキーを押しながらPITCHダイヤルを押すとKEY、Pitch dialチェックモードになります。各KEYを順序通り操作してチェックします。Parallel Portもチェック出来ます。上記の状態にて、Pitchダイヤルを回すとLCDの数値が右回りで増加、左回りで減少します。

KEYの割り当て	Parallel Port
01 EJECT	PIN01 ◀◀
02 DISPLAY	PIN02 ▶▶
03 SKIP ◀◀	PIN03 ◀◀
04 SKIP ▶▶	PIN04 ▶▶
05 SEARCH ◀◀	PIN05 FADER START/STOP
06 SEARCH ▶▶	PIN06 STOP
07 SHIFT	PIN07 PLAY
08 PLAY	PIN08 READY
09 CALL	
10 STOP	

### 3) Simplified check of RS-232C

Have a 15 Pin D-Sub connector, a resistor, an appropriate length of wires and an external DC power supply (5 V to 9 V) available. Connect Pin 2 (Tx) and Pin 3 (Rx) by a lead of the resistor. Connect other lead of the resistor and Pin 5 (GND) to wires to connect the external DC power supply.

Insert the D-Sub connector to RS-232C terminal. Connect other lead of the resistor and Pin 5 (GND) to the external DC power supply so that the junction of Pin 2 and Pin 3 is once pulled up temporarily.

Press and hold down the STOP and PLAY keys and press the PITCH dial and the display reads "RS232C", to show that simplified check mode is enabled.

Then, press the PLAY key. If there are no error conditions, "OK" is displayed.

### 4) Simplified check of RELAY

Short-circuit between RELAY IN and OUT using a fader cable (ø3.5 jack-jack cable).

Press and hold down the STOP and SEARCH PREV (◀◀) keys and press the PITCH dial and the display reads "RELAY", to show that simplified relay check mode is enabled.

Then, press the PLAY key. If there are no error conditions, "OK" is displayed.

**NOTE:** Steps 1)-4) above are supported into the LCD menu display from the firmware version 1.02 and up.

### 5) LCD menu display

Press and hold down the PLAY and SHIFT keys and press the PITCH dial. With each turn of the dial, the LCD display changes, allowing you to check the following:

- 01: Firmware version display
- 02: LCD and LEDs all lit
- 03: Simplified RS-232C check
- 04: Simplified RELAY check
- 05: KEY checks

## 3. FIRMWARE UPDATE

### Creating an update CD

- 1) Have a blank CD-R data disc available, as well as a system capable of creating data CDs.
- 2) Download the latest version of the firmware from a given location and burn the firmware file onto the blank CD-R disc. Use the "Disc at once" method that complies with ISO9660 Level 1: MS-DOS compatible.

**NOTE:** Be careful that the mains power supply to the unit is not interrupted during the update process otherwise the Rom data of the unit can be damaged and physical replacement of the MPU becomes in need.

### 3) RS-232C簡易チェック

15 pin D-Subコネクター、抵抗一本、延長用線材と外部DC電源 (5V - 9 V) を用意します。Pin 2 (Rx)、Pin 3 (Tx) を抵抗の一端子で接続します。抵抗の他の一端とPin 5 (GND) を外部電源に繋がられるよう、線材を接続します。

そのD-SubコネクターをRS-232C端子に挿入し、Pin 2 と Pin 3 が一時的にプルアップされるよう、抵抗の他の端子と Pin 5 (GND) を外部電源に接続します。

STOP+PLAYキーを押しながらPITCH ダイアルを押すと "RS232C" を表示しRS-232C簡易チェック モードになります。

次にPLAYキーを押して "OK" を表示すれば正常です。

### 4) RELAY簡易チェック

RELAY IN/OUTをFADER CABLE(ø3.5 JACK-JACK CABLE)でショートする。

STOP+SEARCH PREV(◀◀)キーを押しながらPITCH ダイアルを押すと "RELAY" を表示しRELAY簡易チェック モードになります。

次にPLAYキーを押して "OK" を表示すれば正常です。

**注意:** F/W Ver1.02以降、1)~4)はメニュー化されます。

### 5) LCD メニュー 表示

PLAY+SHIFTキーを押しながらPitch ダイアルを押します。

Pitch ダイアルを回す毎にLCD表示が切り替わり、下記の項目の確認が出来ます。

- 01: F/W Version表示
- 02: LCD、LED全点灯
- 03: RS-232C簡易Check
- 04: RELAY簡易Check
- 05: KEY check

## 3. ファームウェア アップデート

### 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用意します。
- 2) UPDATEする最新バージョンのファームウェアを所定の場所からダウンロードしデータCDに書き込みます。  
CD-Rへの書き込みフォーマットは、ISO9660 Level 1: MSDOS 互換、Disc at onceを使用してください。

**注意:** UPDATE中に不用意に電源が切れてしまわないよう、十分注意してください。UPDATE中に電源が切れると、本体マイコンのRom data が破壊され、マイコンの交換が必要になります。

## Update procedure

- 1) With no disc loaded, press and hold down the SEARCH PREV (◀◀) and SEARCH NEXT (▶▶) keys and press the EJECT key so that the display reads "UPDATE IN" to show that CD-ROM update mode is enabled.
  - 2) Insert the update CD.
  - 3) With each press of the PITCH dial, the display reads "OLD Ver" ⇨ "NEW Ver" ⇨ "SURE" ⇨ "update" and the updating starts. Upon completion of the updating "COMPLETE" is displayed.
- \* Updating the firmware needs to fulfill "4. Initializing preset menu".

### 4. Initializing preset menu

- 1) Press and hold down the SHIFT key and press the PITCH dial and menu mode is enabled.
- 2) Select menu 14, "F-Pre", and press the ENTER key and the display reads "SURE".
- 3) Press the ENTER key once again and the initializing starts.

### 5. Firmware version check

With no disc loaded, press and hold down the SHIFT and DISPLAY keys and press the PITCH dial and the main unit's firmware version number is displayed.

### 6. Total operating time of CD drive, check and clear

- 1) With no disc loaded, press and hold down the SHIFT and CALL keys and press the PITCH dial. Then display goes into a mode to read a total operating time of CD Drive mech.
- 2) As long as you hold down the SHIFT and CALL keys, a total operating time is displayed.
- 3) When a total operating time is displayed as in step 2), press the PITCH dial and the display reads "SURE" and pressing the dial once again clears the total operating time so far.

**NOTE:** Perform 3) above step only when the CD drive mech is replaced with a new one. Do not perform this in any other cases.

## アップデート手順

- 1) DISCを入れない状態で、SEARCH PREV (◀◀) + SEARCH NEXT (▶▶) キーを押しながら、EJECTキーを押すと "UPDATE IN" を表示し、CD-ROM アップデートモードに入ります。
  - 2) UPDATE CDを挿入します。
  - 3) PITCH ダイアルを押すと、押す毎に、"OLD Ver" ⇨ "NEW Ver" ⇨ "SURE" ⇨ "update" を表示しアップデートが行われます。完了すると"COMPLETE"を表示します。
- \* ファームウェアの書き換えを行った場合は、「4.プリセットメニューの初期化」を行って下さい。

### 4. プリセットメニューの初期化

- 1) SHIFTを押しながらPITCH ダイアルを押すと、メニューモードに入ります。
- 2) メニュー14 "F-Pre" を選択し、ENTERを押すと "SURE" が表示されます。
- 3) ENTERを再度押すと初期化が実行されます。

### 5. ファームウェアバージョン確認

DISCを入れない状態で、SHIFT+DISPLAYキーを押しながらPITCH ダイアルを押すと、本体のF/Wのバージョンが表示されます。

### 6. メカ積算時間確認とクリアー

- 1) DISCを入れない状態で、SHIFT+CALLキーを押しながらPITCH ダイアルを押すと、メカ積算時間表示とクリアーモードになります
- 2) SHIFT+CALLキーを押している間はメカ積算時間を表示します。
- 3) 2)のメカ積算時間の表示状態で、PITCH ダイアルを押すと "SURE" を表示し、更に PITCH ダイアルを押すとメカ積算時間がクリアーされます。

**注意：** 3) クリアーは、CD DRIVEを新品交換した場合に実行してください。その他の場合は実行しないで下さい。

## 4. ERROR MESSAGES EXPLAINED

### エラーメッセージ一覧

Err 01	TOC Read error - the disc's Table of Contents cannot be read - try with another disc or remove and clean the existing disc before replacing it.
Err 02	GFS error GFS signal cannot be detected - try with another disc or remove and clean the existing disc before replacing it.
Err 03	Focus error - after repeating the attempt eight times to focus, an error still occurs - try with another disc or remove and clean the existing disc before replacing it.
Err 04	Sub-Q error - the sub-Q code cannot be detected - try with another disc.
Err 05	Loading error - the loading operation cannot be completed, even after retries, or there is an internal error - make sure that there are no obstructions preventing the loading operation.
Err 06	Sled error - an internal drive error - try turning the power off, waiting a few seconds, and turning it on again.
Err 10	S-DRAM error - an internal S-DRAM error - try turning the power off, waiting a few seconds, and turning it on again.
Err 13	System error - an internal error - try turning the power off, waiting a few seconds, and turning it on again.
<p>If any of the numbered error messages occur, try using another disc.          If the errors continue with a number of discs, turn the unit off, wait for a few seconds, and turn it on again.          If the errors still continue or other error occurs, contact your TASCAM distributor for repair.</p>	

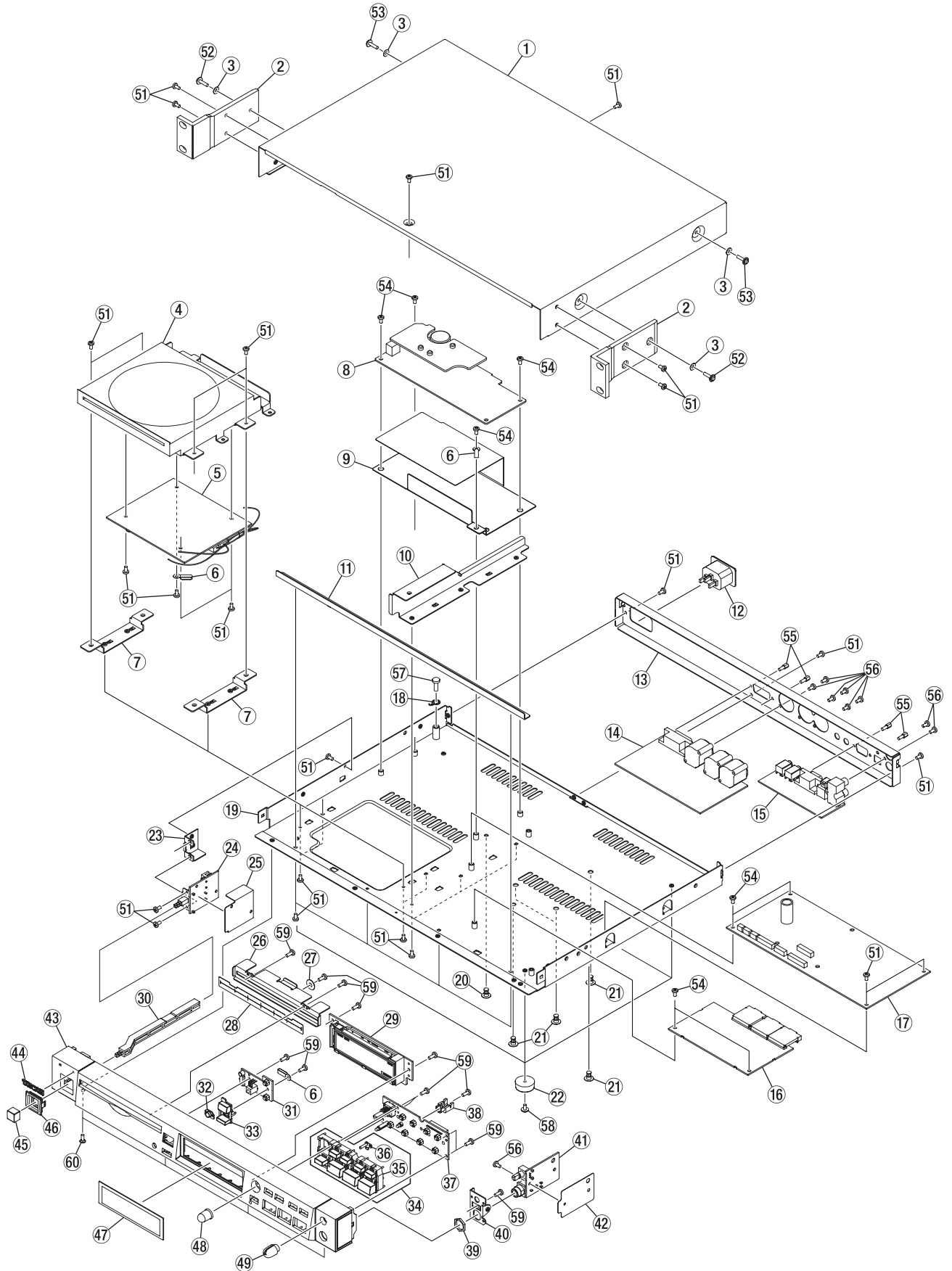
使用中に以下のエラーメッセージが表示された場合、以下の対処を行なってみてください。

表示	内容	対処
Err01	Toc Read Err	<ul style="list-style-type: none"> <li>● ディスクに傷がある →ディスクを交換してください。</li> <li>● ディスクが汚れている →ディスクをクリーニングしてください。</li> </ul>
Err02	GFS Err	
Err03	Focus Err	
Err04	SUBQ Err	ディスクを交換してください。
Err05	Tray Loading Err	<p>トレイに異物がないか確認してください。</p> <p>DISC 有り：オープン→オープン→ Err05 表示          DISC 無し：オープン→オープン→ NO DISC 表示</p>
Err06	Sled Err	電源を再投入してください。
Err10	SDRAM Err	
Err13	SYSTEM Err	

# 5. EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

## EXPLODED VIEW-1



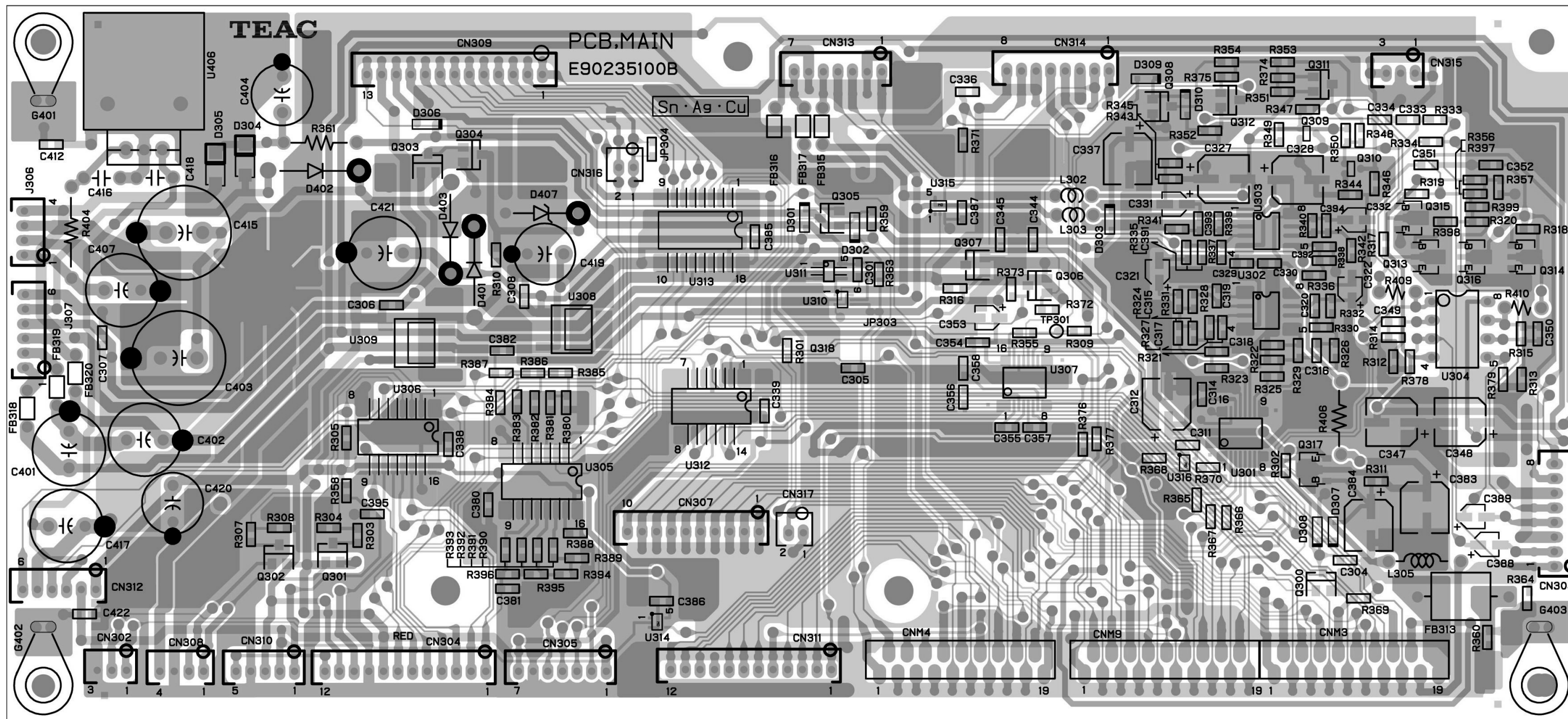
**EXPLODED VIEW-1**

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	M020003-00C	BONNET,CD1U G	
1- 2	M021371-00A	ANGLE,RACK MOUNT 1U G	
1- 3	3M002020	FIBER WSHR,3X8X0.3T BLK	
1- 4	M018185-00B	DRIVE ASSY,CD TC-S202TE G	
1- 5	E951928-00A	PCB ASSY,SERVO CDX05 .....	(Refer to page 16)
1- 6	3M00150-00A	WIRE CLAMP	
1- 7	M021372-00B	BRACKET,MECHA CD1U G	
1- 8	E006468-00B	SW RGLTD PS,EO-0004 EUR	
	E009892-00B	SW RGLTD PS,EO-0011 UL	
1- 9	M021382-00B	PLATE,SWREG LOWER CD1U G	
1-10	M021373-00A	BRACKET,CENTER CD1U G	
1-11	M021673-00A	BARCKET,BOTTOM CD1U G	
1-12	53320304-00	AC INLET,3 POLE M1816	
1-13	M020002-00A	REAR PANEL,CD1U G (CD-01U Only)	
	M020002-10A	REAR PANEL,CD1P G (CD-01UPro Only)	
1-14	E952359-00A	PCB ASSY,REAR CD-01UP (CD-01UPro Only) .....	(Refer to page 19)
1-15	E952353-00A	PCB ASSY,JACK CD-01U .....	PCB A Assy GATHER A (Refer to page 12)
1-16	E952360-00A	PCB ASSY,DSP-CD-01U .....	(Refer to page 14 & 15)
1-17	E952351-00A	PCB ASSY,MAIN CD-01U .....	(Refer to page 11)
1-18	E009427-00B	HARNESS ASSY,AC-E MD-CD1	
1-19	M020001-00B	CHASSIS,MAIN CD1U G	
1-20	M021921-00A	SPACER,KANGY RCA-5 G	
1-21	M019054-00A	SPACER,PCB RAM-7 G	
1-22	3M001950	FOOT,21MM G	
1-23	M021374-00A	BRACKET,PWRSW CD1U G	
1-24	E952356-00A	PCB ASSY,SW CD-01U .....	PCB A Assy GATHER A (Refer to page 12)
1-25	M021383-00A	PLATE,PWRSW CD1U G	
1-26	M021674-00B	BRACKET,ENTRANCE CD1U G	
1-27	3M00601-00A	PLAIN WASHER,M3 D11.5	
1-28	M021385-00A	SHEET,ENTRANCE CD1U G	
1-29	E951926-10A	PCB ASSY,DISP(J) CD-01U .....	(Refer to page 14 & 15)
1-30	M021380-00B	LINK,PWRSW CD1U G	
1-31	E952355-00A	PCB ASSY,EJECT CD-01U .....	PCB A Assy GATHER A (Refer to page 12)
1-32	M021379-00A	LENS,RMC CD1U G	
1-33	M021377-00B	BUTTON,EJECT CD1U G	
1-34	M021450-00A	BUTTON ASSY,MENU CD1U	
1-35	M021376-00A	BUTTON,MENU CD1U G	
1-36	M021378-00A	LENS,MENU BUTTON CD1U G	
1-37	E952358-00A	PCB ASSY,PANEL CD-01U .....	PCB A Assy GATHER B (Refer to page 13)
1-38	M021856-00B	HOLDER,BONNET	
1-39	3M01310-00A	NUT, M12X2.3-G	
1-40	M021375-00A	BRACKET,PHONE CD1U G	
1-41	E952354-00A	PCB ASSY,PHONE CD-01U .....	PCB A Assy GATHER A (Refer to page 12)
1-42	M021384-00A	PLATE,PHONE CD1U G	
1-43	M020000-00C	FRONT PANEL,CD1U G (CD-01U Only)	
	M020000-10C	FRONT PANEL,CD1P G (CD-01UPro Only)	
1-44	3M01349-00A	BADGE TASCAM SILVER G	
1-45	M013351-00A	BUTTON,POWER CD-RW402 G	
1-46	M013349-00A	ESCUTCHEON,POWERCD-RW402G	
1-47	M021381-00A	WINDOW,CD1U G	
1-48	M015347-10A	KNOB,ENCORDER N66	
1-49	M018988-06A	KNOB,TRIM N61/N66 G	
1-51	B001997-06A	SCREW,BPB 3*6 FZB G	
1-52	B001976-12A	SCREW,PPSU 3*12 FZB G	
1-53	B001976-06A	SCREW,PPSU 3*6 FZB G	
1-54	B001740-06A	SCREW,BPA 3*6 FZC G	
1-55	3B00130-00A	D-SUB SCREW 003-HEX G (CD-01UPro Only)	
1-56	B001997-08A	SCREW,BPB 3*8 FZB G (CD-01UPro Only)	
1-57	B001984-08A	SCREW,BPS 4*8 FZC G	
1-58	B001978-06A	SCREW,PPSU 3*6 FZC G	
1-59	B001927-08A	SCREW,BPP 3*8 FZB G	
1-60	B001178-00A	SCREW DPB M3*8 FZC	

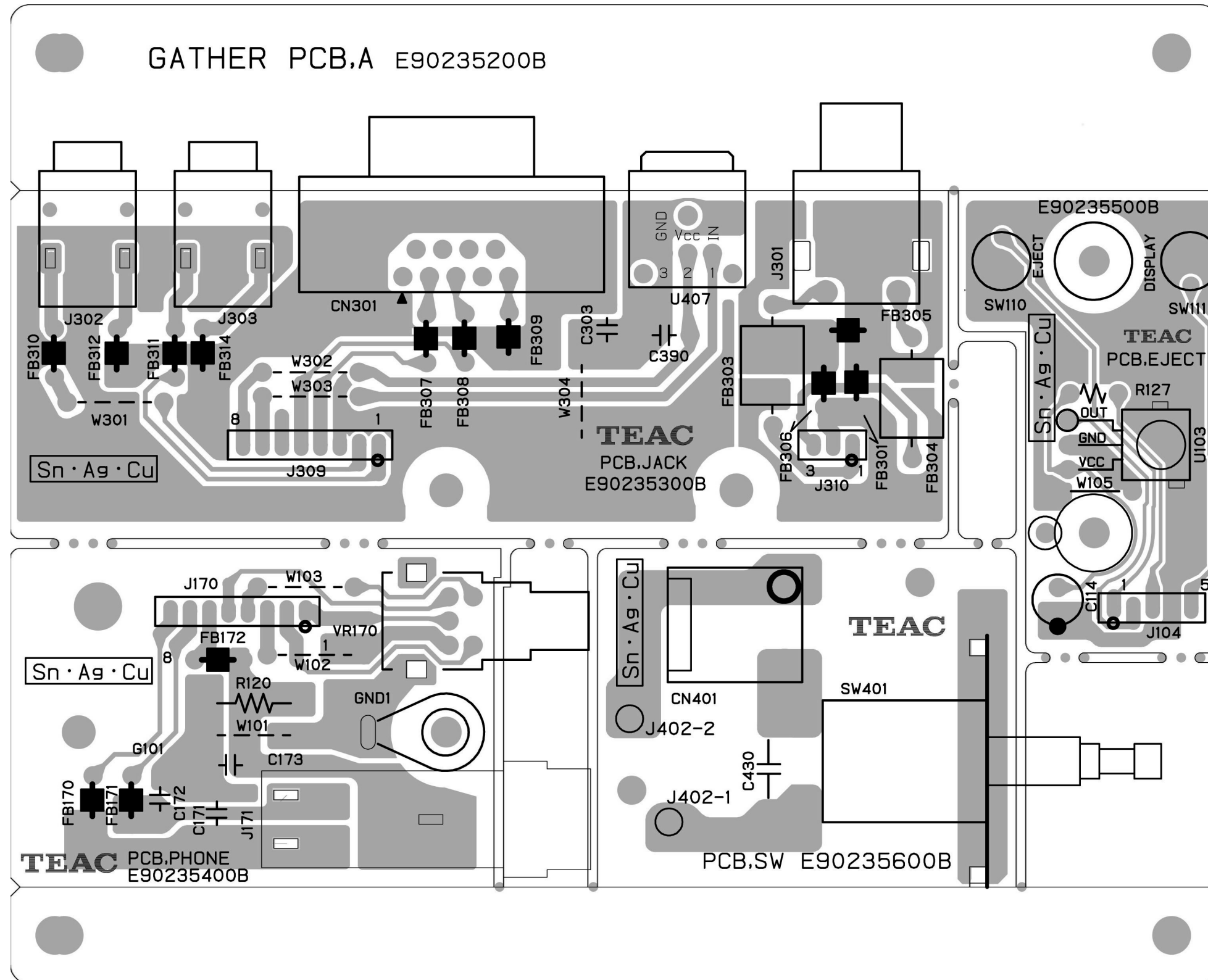
# 6. PC BOARDS AND PARTS LIST

基板図とパーツリスト

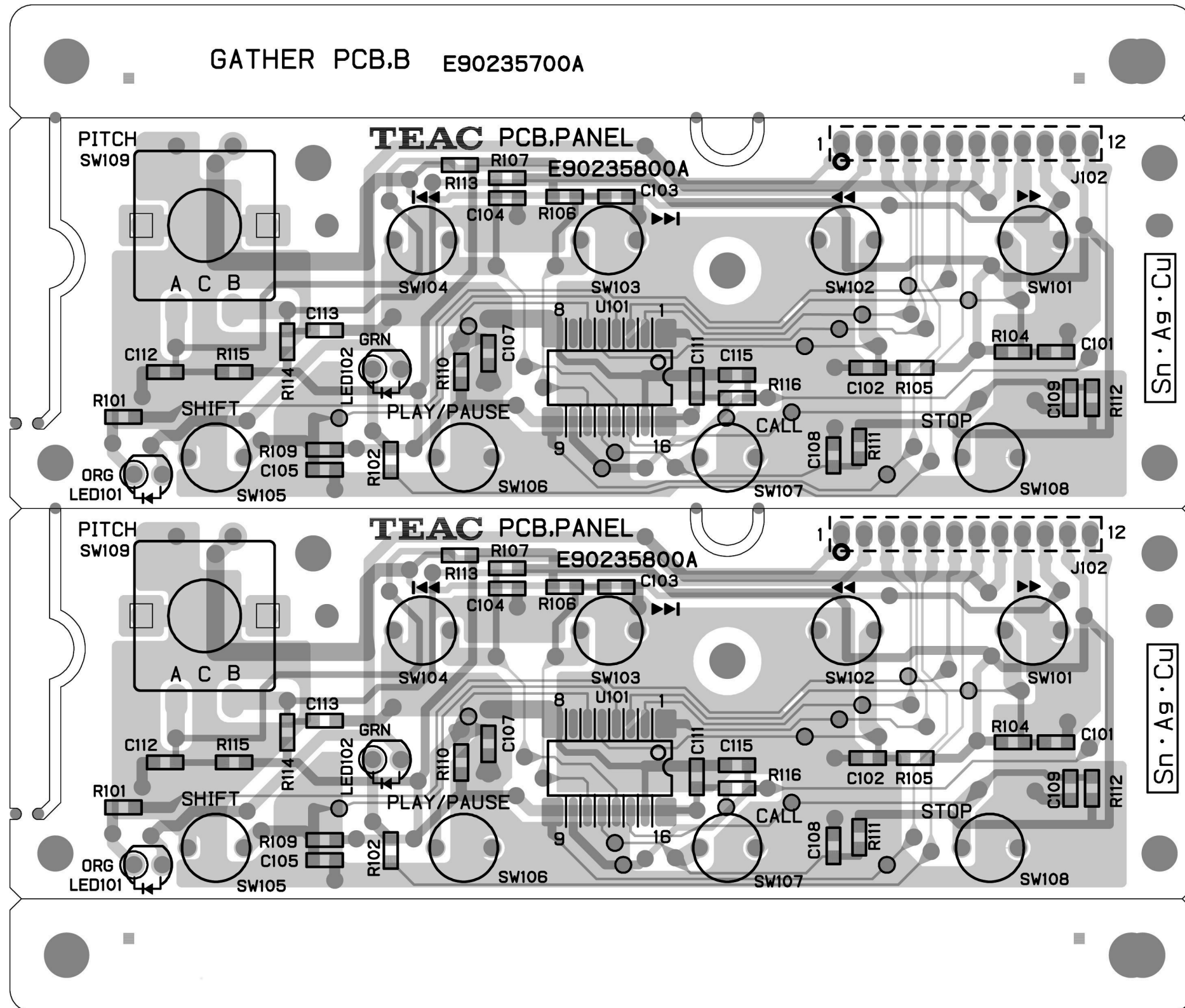
## MAIN PCB ASSY (CD-01U)



GATHER A PCB ASSY (CD-01U) (PCB JACK, PCBPHONE, PCB SW, PCB EJECT)

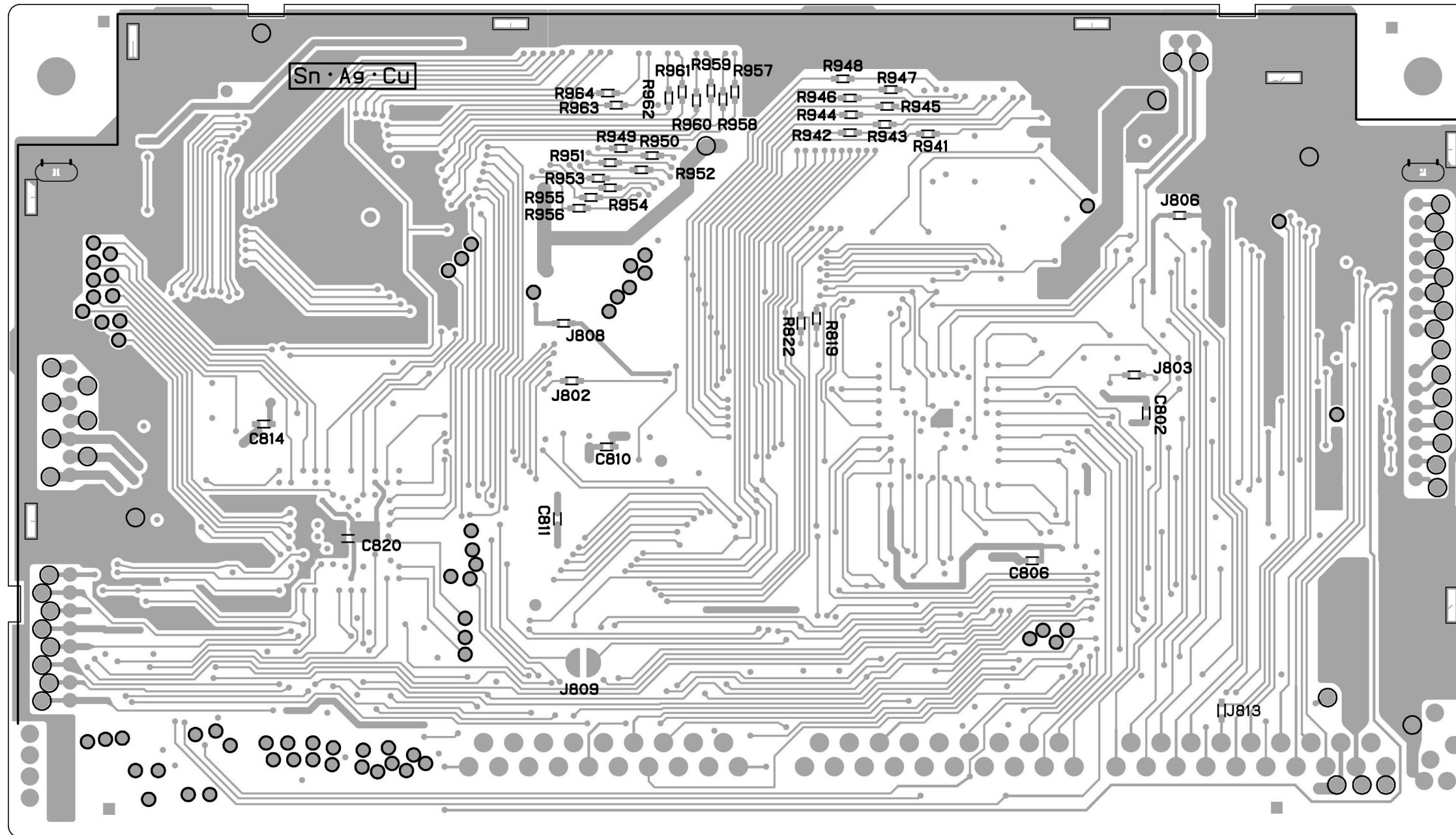


GATHER B PCB ASSY (CD-01U) (PCB PANEL)

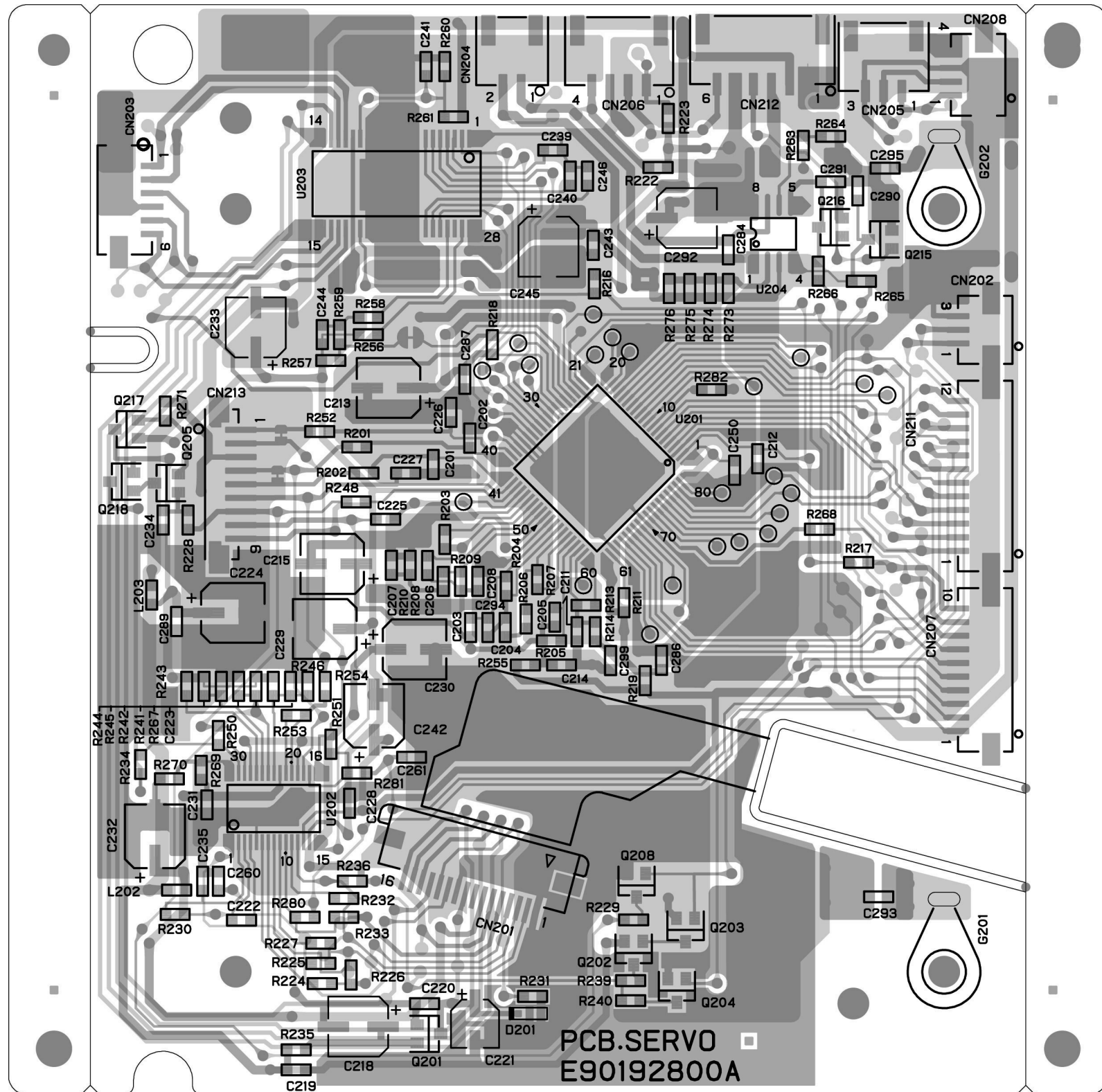




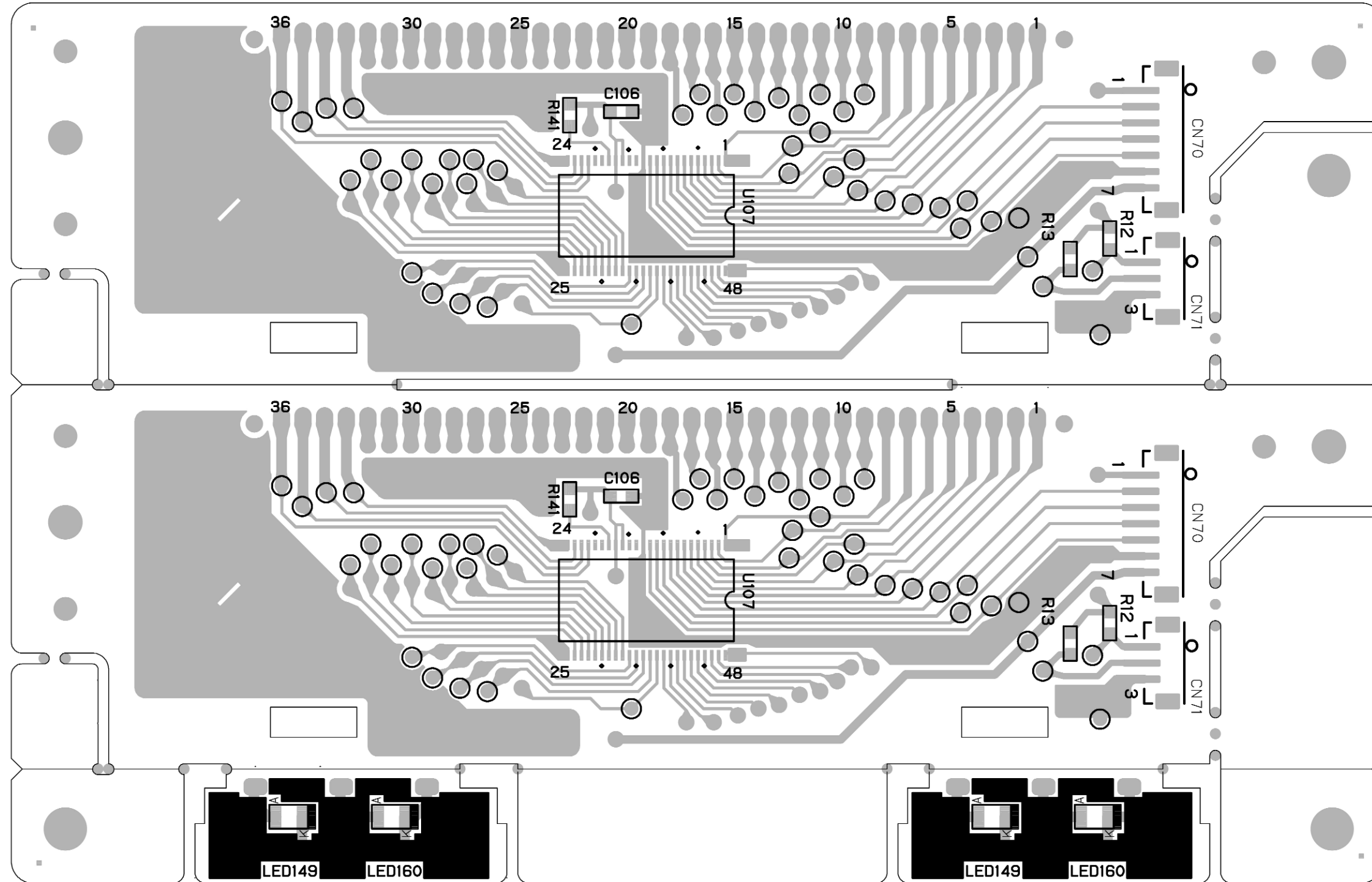
DISP PCB ASSY (CD-01U) (SIDE B)



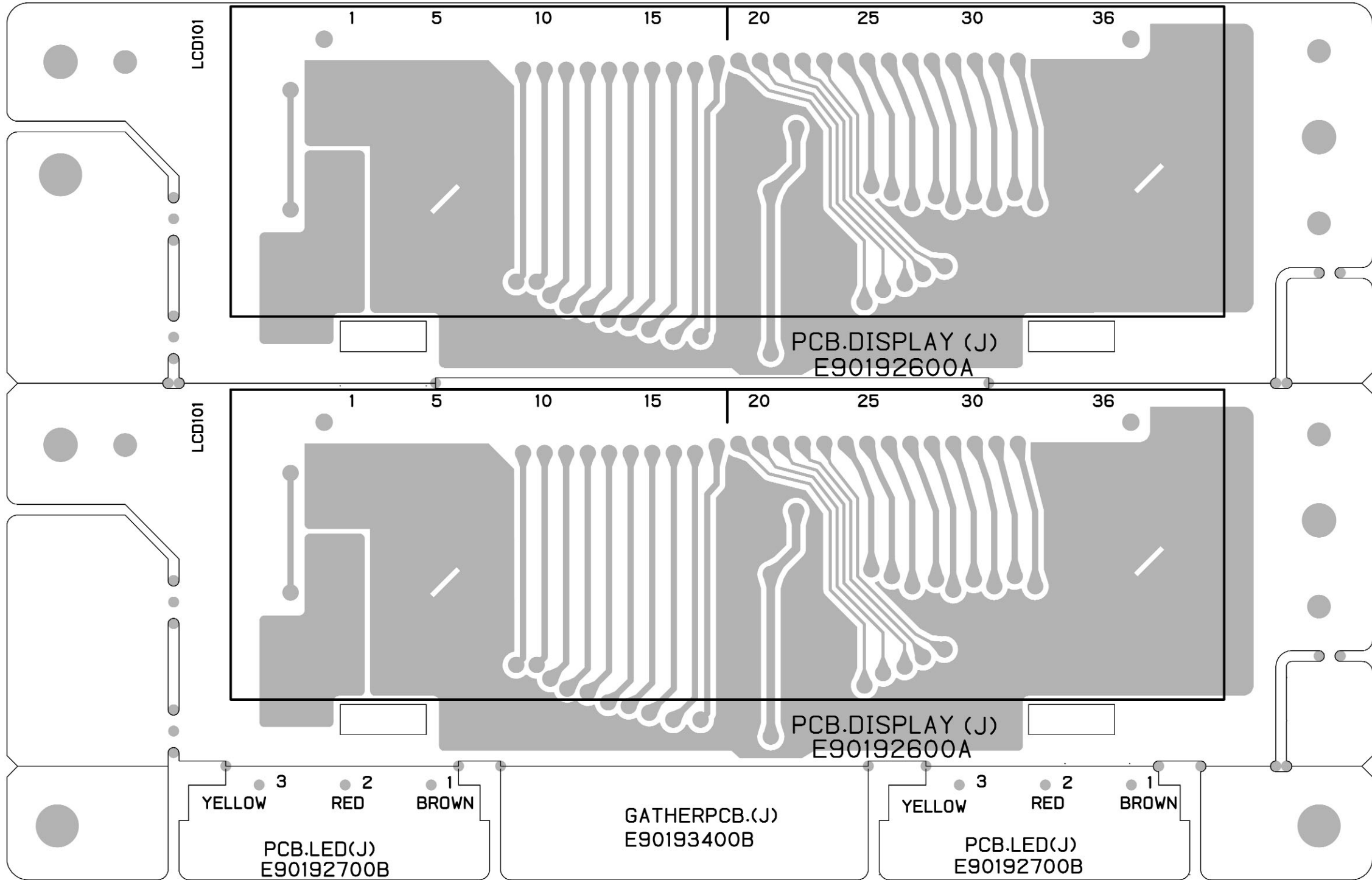
SERVO PCB ASSY (CDX05)



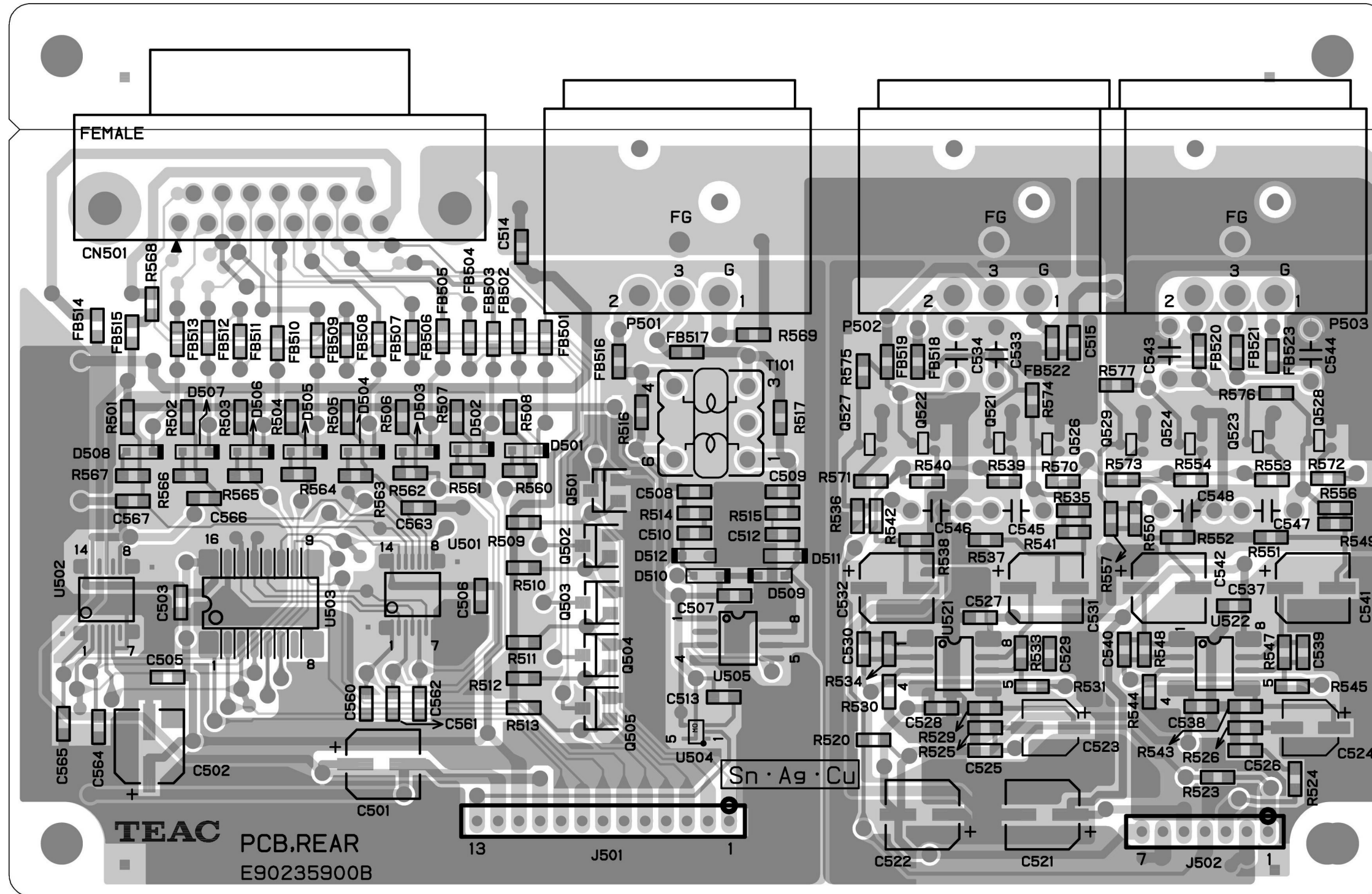
GATHER J PCB ASSY (CD-01U) (PCB DISPLAY, PCB LED(J)) (SIDE A)



**GATHER J PCB ASSY (CD-01U) (PCB DISPLAY, PCB LED(J)) (SIDE B)**



REAR PCB ASSY (CD-01UP)



**MAIN PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E952351-00A	PCB ASSY,MAIN CD-01U
CN302	3E01035-0G	CONNEC PLUG B3B-PHKS(LF)G
CN303	3E01040-0G	CONNEC PLUG B8B-PHKS(LF)G
CN304	3E00391-0G	CONNEC,PLU B12B-PH RD(LF)G
CN305	3E01039-0G	CONNEC PLUG B7B-PHKS(LF)G
CN307	3E01042-0G	CONNEC PLUG B10B-PHKS(LF)G
CN308	3E01036-0G	CONNEC PLUG B4B-PHKS(LF)G
CN309	3E01045-0G	CONNEC PLUG B13B-PHKS(LF)G
CN310	3E01037-0G	CONNEC PLUG B5B-PHKS(LF)G
CN311	3E01044-0G	CONNEC PLUG B12B-PHKS(LF)G
CN312	3E01038-0G	CONNEC PLUG B6B-PHKS(LF)G
CN313	3E01039-0G	CONNEC PLUG B7B-PHKS(LF)G
CN314	3E01040-0G	CONNEC PLUG B8B-PHKS(LF)G
CN315	3E01035-0G	CONNEC PLUG B3B-PHKS(LF)G
CN316,317	3E01034-0G	CONNEC PLUG B2B-PHKS(LF)G
CNM3	3E037600	CONNECT,19R-1.25FJ(LF) G
CNM4	3E037600	CONNECT,19R-1.25FJ(LF) G
CNM9	3E037600	CONNECT,19R-1.25FJ(LF) G
D301	3S002984	DIODE,1SS355 TE-17 TP G
D302	3S002984	DIODE,1SS355 TE-17 TP G
D303	3S002984	DIODE,1SS355 TE-17 TP G
D304,D305	3S006484	DIODE,1SR154-400(1A) G
D306	3S036194	D,UDZS3.9B G
D307	3S002984	DIODE,1SS355 TE-17 TP G
D308	3S036204	D,UDZS5.1B G
D309,D310	3S002984	DIODE,1SS355 TE-17 TP G
D401	3S008000	DI,21DQ04 G
D402	3S008000	DI,21DQ04 G
D403	3S008000	DI,21DQ04 G
D407	3S00610-1G	ZDI,RD3.3ES-T1-AZB2 26MMG
FB313	3E035850	BEAD CORE,ZBF116T-01A G
FB317	3R003421	JUMPER RES,5MM G
FB318,F319	3E033140	GEAD CORE,ZBF503AR-00TA
FB320	3E033140	GEAD CORE,ZBF503AR-00TA
G401	3E02152-00A	EARTH PLATE B GND-8 G
G402	3E02152-00A	EARTH PLATE B GND-8 G
G403	3E02152-00A	EARTH PLATE B GND-8 G
J306	E010595-00B	HARNESS ASSY,D
J307	E010609-00B	HARNESS ASSY,S
L302,L303	3E011810	COIL,47 UH K G
L305	3R003481	JUMPER RES,10MM G
Q300	3S036234	DTR,DTC124EKA G
Q301	3S034504	TR,DTA144EKA T146 G
Q302	3S034504	TR,DTA144EKA T146 G
Q303	3S006984	DTR,DTA124EKAT-146 G
Q304	3S036234	DTR,DTC124EKA G
Q305	3S003004	TR,2SA1037AK T146 TP G
Q306	3S010264	TR,DTC114EKA T146 TP G
Q307	3S010264	TR,DTC114EKA T146 TP G
Q308	3S010264	TR,DTC114EKA T146 TP G
Q309	3S03250-4G	TR,2SC4213B(TE85L,F) G

**MAIN PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
Q310	3S03250-4G	TR,2SC4213B(TE85L,F) G
Q311,Q312	3S003004	TR,2SA1037AK T146 TP G
Q313,Q314	3S007944	TR,2SD2150R G
Q315,Q316	3S007944	TR,2SD2150R G
Q317	3S007944	TR,2SD2150R G
U301	3S03418-4G	IC,AK4382AVT G
U302	3S00536-4G	IC,NJM4580M-#ZZZB G
U303	3S00536-4G	IC,NJM4580M-#ZZZB G
U304	3S008880	IC,NJM4556AD 8P
U305	3S03582-4G	IC,TC74HC4094AF(EL,F) G
U306	3S036174	IC,TC74VHC165F(F) G
U307	3S03340-4G	IC,MAX3221CPWR G
U308	3S002974	ICBA033FP-E2SMT,TAPING G
U309	3S002974	ICBA033FP-E2SMT,TAPING G
U310	3S03404-4G	IC,SN74LVC2G14DCKR G
U311	3S035904	BD46281G
U312	3S00307-4G	IC,TC74HC125AF(EL,F) G
U313	3S035734	IC,BU2092F G
U314	3S036184	IC,HD74LV1G14ACME-E G
U315	3S036224	IC,HD74LV1GT04ACME-E G
U316	3S036224	IC,HD74LV1GT04ACME-E G
U406	3S004730	IC,BA17807T G
	3M01147-00A	HEAT SINK 16.5X16X25 G

**GATHER A PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E952352-00A	PCBA,GATHER A CD-01U
		PCB ASSY,JACK CD-01U
CN301	3E019520	D-SUB 5504F1-09S-02-03 G
FB301	3E033140	GEAD CORE,ZBF503AR-00TA
FB303,304	3E033140	GEAD CORE,ZBF503AR-00TA
FB305	3E033140	GEAD CORE,ZBF503AR-00TA
FB306	3E033140	GEAD CORE,ZBF503AR-00TA
FB307,308	3E033140	GEAD CORE,ZBF503AR-00TA
FB309	3E033140	GEAD CORE,ZBF503AR-00TA
FB310,311	3E033140	GEAD CORE,ZBF503AR-00TA
FB312	3E033140	GEAD CORE,ZBF503AR-00TA
FB314	3E033140	GEAD CORE,ZBF503AR-00TA
J301	3E03028-0G	JACK,YKC 21-3487N G
J302,J303	3E03029-0G	JACK,PHON JY3550*01-020-G
J309	E010607-00A	HARNESS ASSY,Q G
J310	E010608-00A	HARNESS ASSY,R G
U407	3S03539-0G	IC,GP1FA513TZOF G
		PCB ASSY,SW CD-01U
C430	3E004300	S.KILLER,CS12-F2GA472MYAS
CN401	3E013990	CONNECTOR,B 2P3S-VH G
J402	E010605-00A	HARNESS ASSY,O G
SW401	3E037220	SW,SDKLA11000 G
		PCB ASSY,EJECT CD-01U
J104	E010603-00A	HARNESS ASSY,M G
SW110,SW11	3E018680	SW,TACT SKQNAE D010 G
U103	3S036210	REMOCON SENS,RPM7238-H9 G
		PCB ASSY,PHONE CD-01U
FB170,171	3E033140	GEAD CORE,ZBF503AR-00TA
FB172	3E033140	GEAD CORE,ZBF503AR-00TA
G101	E010640-00B	HARNESS ASSY,T
GND1	3E02152-00A	EARTH PLATE B GND-8 G
J170	E010598-00C	HARNESS ASSY,H
J171	E0073670	JACK,JY-6313-01-030 G
R120	3R000241	RD,1/8W 10 OHM J 26MM G
VR170	3R005560	VAR RES,RK09K12A-20KA G
	3E002720	FER.CORE K5AT18.3X10X10 G

**PWR SPLY SECT ASSY**

REF.NO.	PARTS NO.	DESCRIPTION
	Y002824-00A	PWR SPLY SECT,EUR CD1U [K,E,A,UK]
	Y002824-10A	PWR SPLY SECT,UL CD1U [J,US/C]
	E006468-00B	SW RGLTD PS,EO-0004 EUR [K,E,A,UK]
	E009892-00B	SW RGLTD PS,EO-0011 UL [J,US/C]
CN403	53320304-00	AC INLET,3 POLE M1816
	E010606-00B	HARNESS ASSY,P
	E009427-00B	HARNES ASSY,AC-E MD-CD1 G
	3E010000	FER.CORE B18T 25X12X15 G

**GATHER B PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E952357-00A	PCBA,GATHER B CD-01U
		PCB ASSY,PANEL CD-01U
J102	E010592-00A	HARNESS ASSY,A G
LED101	3E016350	LED,SLR-342DU-3F-MAMBE G
LED101	M019027-00A	SPACER,LED KANG.LEDH14.5G
LED102	3S033500	LED,SLR342MG(GRN) G
SW101,102	3E018680	SW,TACT SKQNAE D010 G
SW103,104	3E018680	SW,TACT SKQNAE D010 G
SW105,106	3E018680	SW,TACT SKQNAE D010 G
SW107,108	3E018680	SW,TACT SKQNAE D010 G
SW109	3E037590	SW,ENCODER EC12E2424404 G
U101	3S036174	IC,TC74VHC165F(F) G

**GATHER J PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E951934-10A	PCBA,GATHER J CD-01U
		PCB ASSY,DISP(J) CD-01U
U107	3S00965-4G	IC,HT1621 -48 G
R12	3R006084	RM,1/10W 120 OHM J 0603 G
R13	3R006084	RM,1/10W 120 OHM J 0603 G
R141	3R006734	RM,1/10W 62K OHM J 0603 G
C106	3C015134	CC,F 25V 0.10UF Z 1608 G
CN70	53363867-00	CONNECTOR,B7B-ZR-SM3-TF
CN71	53363863-00	CONNECTOR,B3B-ZR-SM3-TF
LCD101	E010575-00A	LCD,TSB2454DBTDPN-SP(4) G
	M016618-00B	HOLDER,LCD G
	M016619-00A	LENS, G
	M016620-00A	SHEET,DIFFUSION G
	M016621-00A	SHEET,REFLECT G
	M018406-00A	SHEET,MIRROR CD-X1500 G
		PCB ASSY,LED(J) CDX05
LED149	3S00987-4G	LED,NSC W 100S(WHITE) G
LED160	3S00987-4G	LED,NSC W 100S(WHITE) G
J48	E008894-00A	HARNESS ASSY,E01 G
P316,P317	E010859-00A	HARNESS ASSY,U G

**WIRE SECT (CD-1U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E010593-00A	HARNESS ASSY,B G
	E010594-00A	HARNESS ASSY,C G
	E010597-00A	HARNESS ASSY,G G
	E010599-00A	HARNESS ASSY,I G
	E010600-00A	HARNESS ASSY,J G
	E010604-00A	HARNESS ASSY,N G
	E010596-00A	HARNESS ASSY,F G

**DSP PCB ASSY (CD-01U)**

REF.NO.	PARTS NO.	DESCRIPTION
	E952360-00A	PCB ASSY,DSP-CD-01U
CN803CN804	3E037610	CONNECT,19P-215S-1.25FJ G
CN809	3E037610	CONNECT,19P-215S-1.25FJ G
D801	3S005074	DIODE,RB161L-40 TE25 G
D803	3S005074	DIODE,RB161L-40 TE25 G
G801,G802	3E02152-00A	EARTH PLATE B GND-8 G
U801	S0060143	IC,SCF5249VM140
U802	3S00944-4G	M12L64164A-7T-G
U803	S005924-00A	IC,ROM MAIN 01U VXXX
U803	IC,MBM29LV800BE70TN G	
U803	SOFTWARE SPEC,CD-01U	
U803	LABEL,IC MAIN CD-X1500 G	
U811	3S033474	IC,BA18BCOFP G
U812	3S03374-4G	IC,SN74LVC2GU04DCKR G
U813	3S009884	IC,M24512-WMW
U814	3S00638-4G	IC,SN74LVC1G125DCKR G
X801	3E021414	LIMAZA 33.8688MHZ G

**SERVO PCB ASSY (CDX05)**

REF.NO.	PARTS NO.	DESCRIPTION
	E951928-00A	PCB ASSY,SERVO CDX05
CN201	3E036694	CONNECT,006224016001800 G
CN202	3E03635-4G	CONN,S3B-ZR-SM4A-TF(LF)G
CN202	53363801-00	CONN PL 3P S3BPHSM3TB
CN203	3E017884	CONNECT,S 6B-ZR-SM3A-TF G
CN204	3E03653-4G	CONN,S2B-PH-SM4-TB(LF)G
CN205	3E017874	CONNECT,S 3B-PH-SM3-TB G
CN206	3E03654-4G	CONN,S4B-PH-SM4-TB(LF)G
CN207	3E017894	CONNECT,S10B-ZR-SM3A-TF G
CN208	3E03636-4G	CONN,S4B-ZR-SM4A-TF(LF)G
CN211	3E03642-4G	CONN,S12B-ZR-SM4ATF(LF)G
CN212	3E03656-4G	CONN,S6B-PH-SM4-TB(LF)G
CN213	E0047034	CONNECTOR,B9B-ZR-SM3-TF
D201	3S009844	DI,ISS380 G
G201,G202	3E02152-00A	EARTH PLATE B GND-8 G
L202,L203	3E036704	COIL,GLF2012T 4.7UH G
Q201	3S008144	TR,2SA1036KQ G
Q202	3S006984	DTR,DTA124EKAT-146 G
Q203	3S007804	TR,DTC144EKA T146 G
Q204	3S007804	TR,DTC144EKA T146 G
Q205	3S003124	TR,2SC2412K T146Q G
Q208	3S007804	TR,DTC144EKA T146 G
Q215	3S002432	TR,DTC143EK T146 TP G
Q216	3S002432	TR,DTC143EK T146 TP G
Q217	3S003124	TR,2SC2412K T146Q G
Q218	3S034824	TR,DTA143EKA G
U201	3S006404	IC,CXD3068Q G
U202	3S003304	IC,CXA2581N-T4 G
U203	3S009914	IC,BA5974EP G
U204	3S034814	IC,BA6417F G

**REAR PCB ASSY (CD-01UP)**

REF.NO.	PARTS NO.	DESCRIPTION
	E952359-00A	PCB ASSY,REAR CD-01UP
U501	3S03249-4G	IC,SN74LV04APWR G
U502	3S03249-4G	IC,SN74LV04APWR G
U503	3S036174	IC,TC74VHC165F(F) G
U504	3S036224	IC,HD74LV1GT04ACME-E G
U505	3S00336-4G	IC,SN75179BPS G
U521	3S03457-4G	IC,NJM2114M-TE3-#ZZZB G
U522	3S03457-4G	IC,NJM2114M-TE3-#ZZZB G
Q501,Q502	3S010264	TR,DTC114EKA T146 TP G
Q503,Q504	3S010264	TR,DTC114EKA T146 TP G
Q505	3S010264	TR,DTC114EKA T146 TP G
Q521,Q522	3S03250-4G	TR,2SC4213B(TE85L,F) G
Q523,Q524	3S03250-4G	TR,2SC4213B(TE85L,F) G
Q526,Q527	3S03250-4G	TR,2SC4213B(TE85L,F) G
Q528,Q529	3S03250-4G	TR,2SC4213B(TE85L,F) G
D501,D502	3S002984	DIODE,1SS355 TE-17 TP G
D503,D504	3S002984	DIODE,1SS355 TE-17 TP G
D505,D506	3S002984	DIODE,1SS355 TE-17 TP G
D507,D508	3S002984	DIODE,1SS355 TE-17 TP G
D509,D510	3S002984	DIODE,1SS355 TE-17 TP G
D511,D512	3S002984	DIODE,1SS355 TE-17 TP G
FB501,502	3E037394	BEAD COIL,1200HM SMD0603
FB503,504	3E037394	BEAD COIL,1200HM SMD0603
FB505,506	3E037394	BEAD COIL,1200HM SMD0603
FB507,508	3E037394	BEAD COIL,1200HM SMD0603
FB509,510	3E037394	BEAD COIL,1200HM SMD0603
FB511,512	3E037394	BEAD COIL,1200HM SMD0603
FB513,514	3E037394	BEAD COIL,1200HM SMD0603
FB515,516	3E037394	BEAD COIL,1200HM SMD0603
FB517,518	3E037394	BEAD COIL,1200HM SMD0603
FB519,520	3E037394	BEAD COIL,1200HM SMD0603
FB521	3E037394	BEAD COIL,1200HM SMD0603
FB522,FB52	3E037394	BEAD COIL,1200HM SMD0603
CN501	3E037580	D-SUB,5504F1-15S-02-03
P501	3E01033-0G	PLUG,XLR NC3MAH G
P502,P503	3E01033-0G	PLUG,XLR NC3MAH G
J501	E010601-00A	HARNESS ASSY,K
J502	E010602-00A	HARNESS ASSY,L

# 7. INCLUDED ACCESSORIES

## 付属品

### INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	D008640-00A	OWNERS MNL,(J) CD1U [J]	
	D008640-10A	OWNERS MNL,(E) CD1U [EXCEPT,J]	
	D008640-20A	OWNERS MNL,(F) CD1U [E]	
	D008824-00A	OWNERS MNL,QSG(E) CD1U [EXCEPT,J]	
	D008824-10A	OWNERS MNL,QSG(F) CD1U [E]	
	D008824-20A	OWNERS MNL,QSG(G) CD1U [E]	
	D008824-30A	OWNERS MNL,QSG(I) CD1U [E]	
	D008824-40A	OWNERS MNL,QSG(S) CD1U [E]	
	E010610-00A	RMT CONT,RC-01UC G	
	3E002220	BATTERY,UM-4(ENGLISH) G	
	3E014140	POWER CORD,DM-G [J]	
	3E014150	POWER CORD,UL-G [US/C]	
	3E014160	POWER CORD,EUR-G [E]	
	3E014170	POWER CORD,UK [UK]	
	3E014180	POWER CORD,AUS [A]	
	3M00283-00A	ASSY,RACK MOUNT SCREW KIT SCREW,BPA M5X12 (NI) 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. [A]: AUSTRALIA

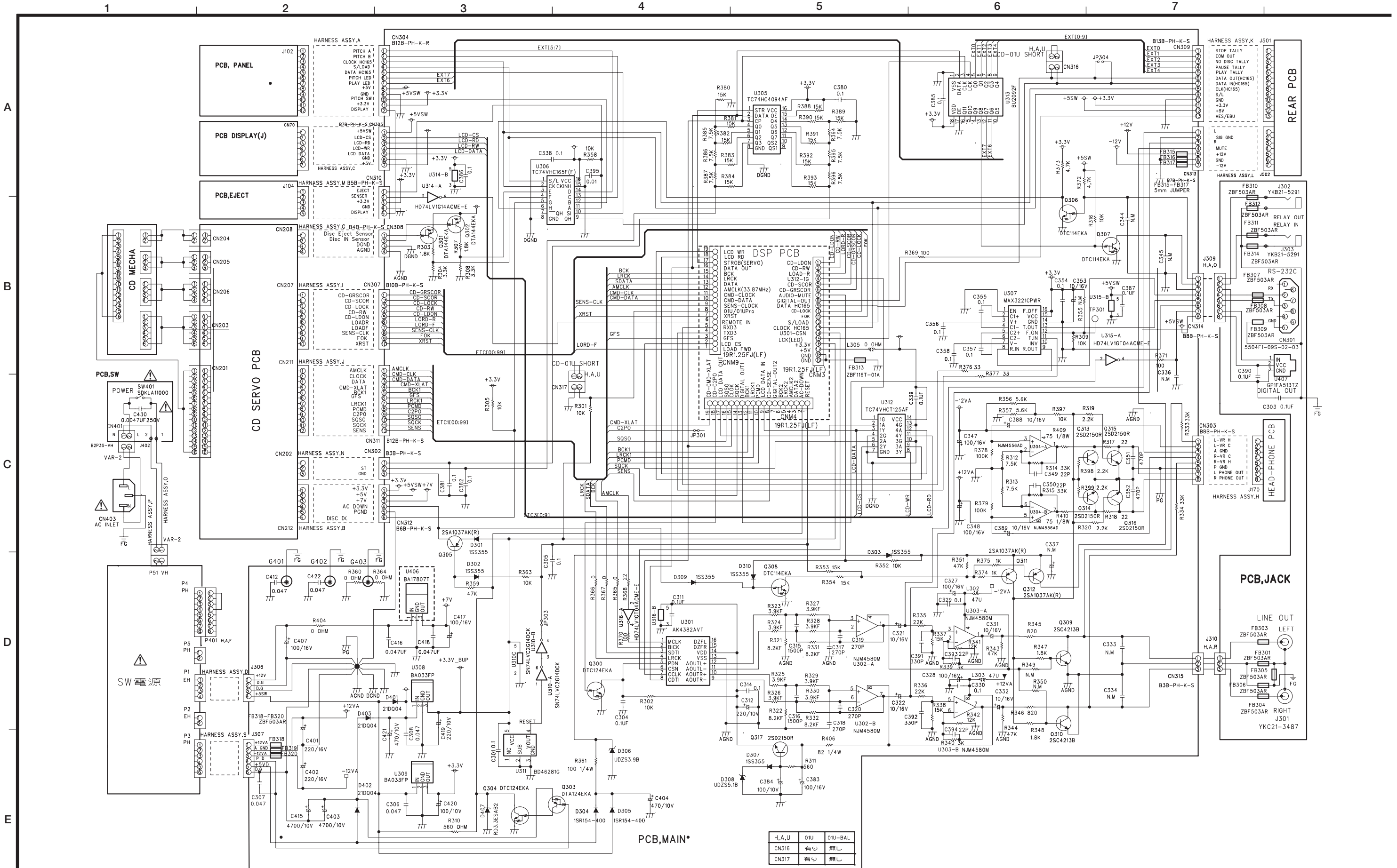
### 注意

- 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. [A]: AUSTRALIA

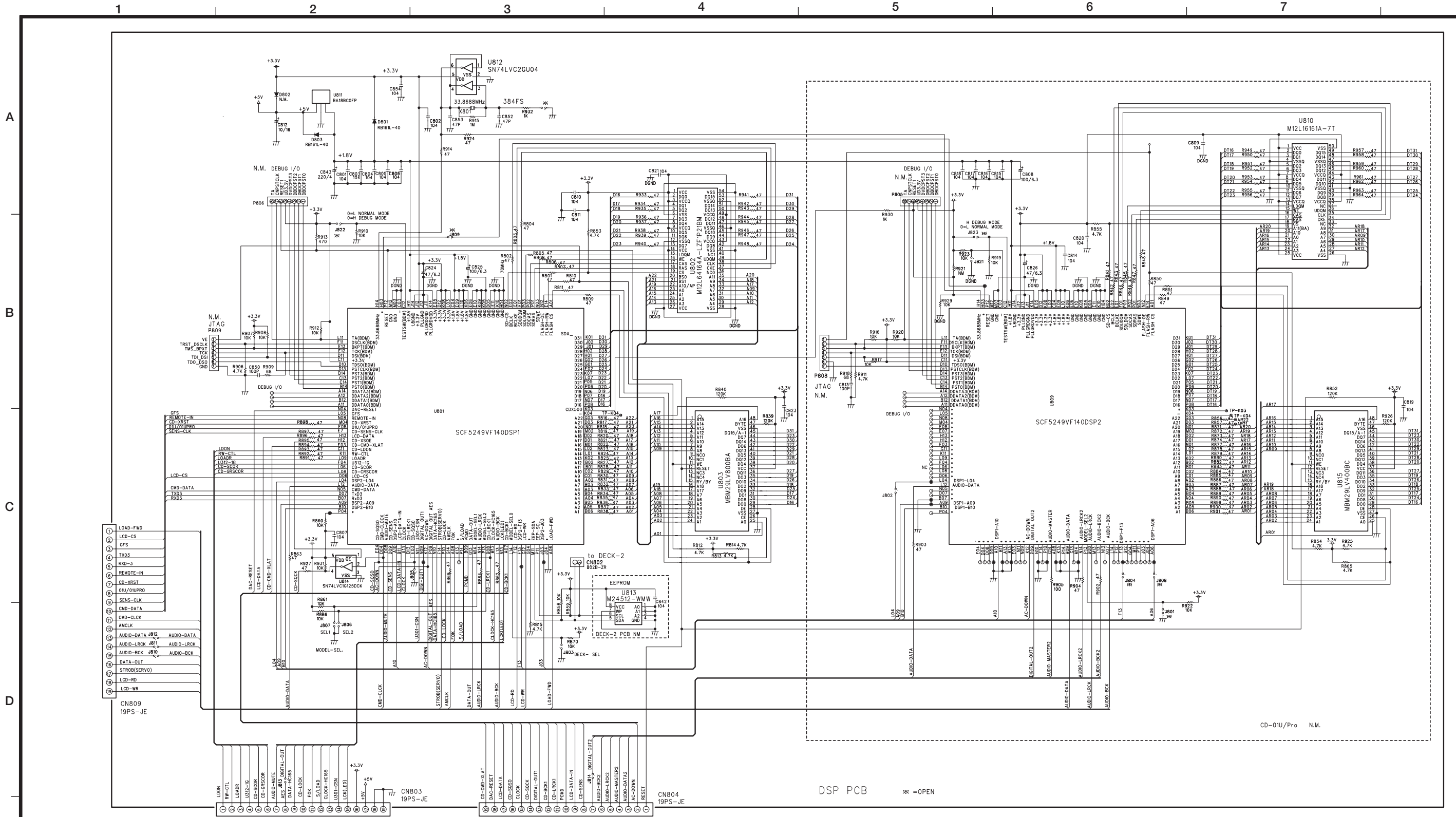
**回路図**

**CONTENTS 目次**

MAIN PCB & Wiring .....	2
DSP PCB .....	3
PANEL PCB / DISPLAY PCB / PHONE PCB / EJECT PCB .....	4
SERVO PCB .....	5
REAR PCB .....	6

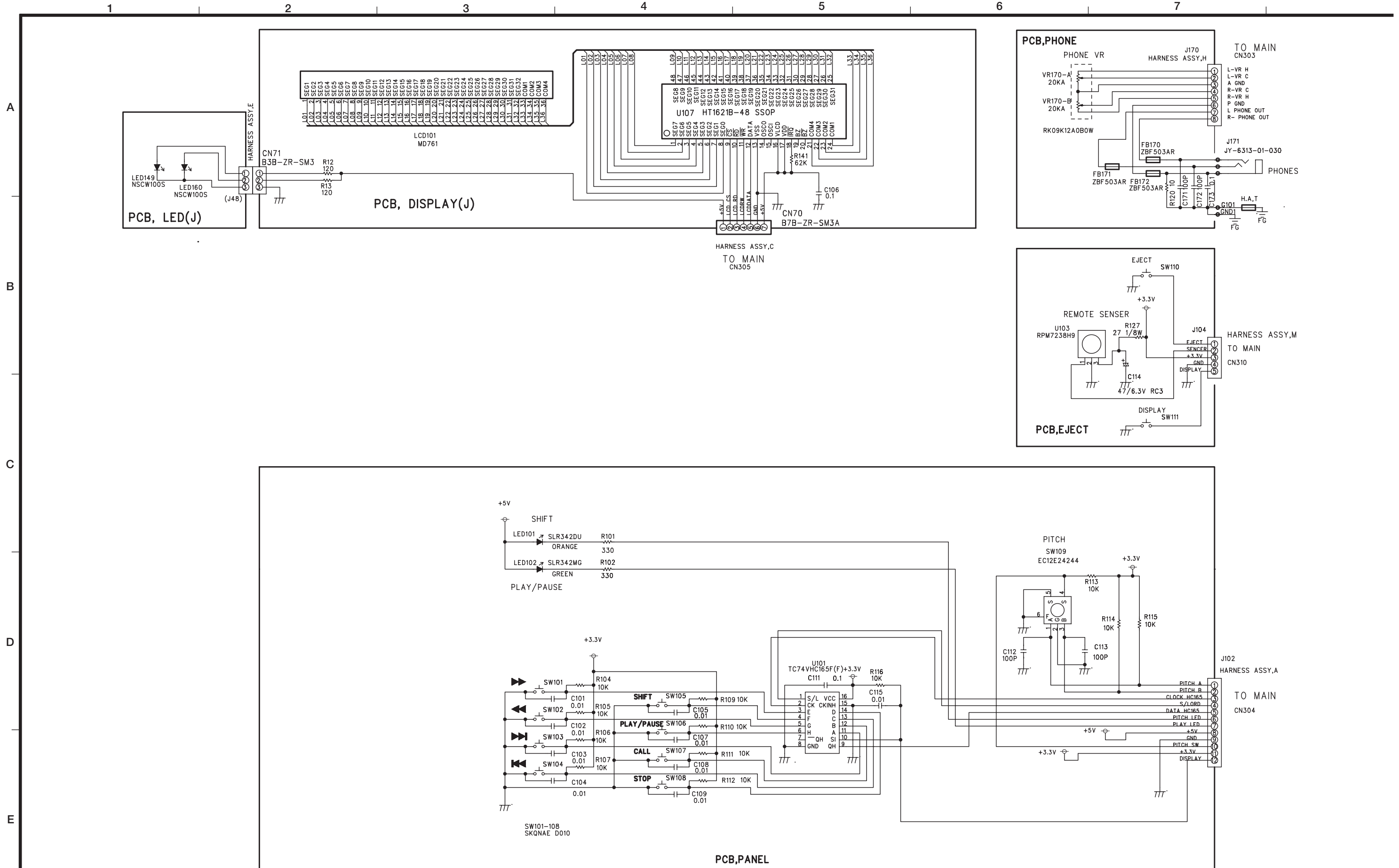


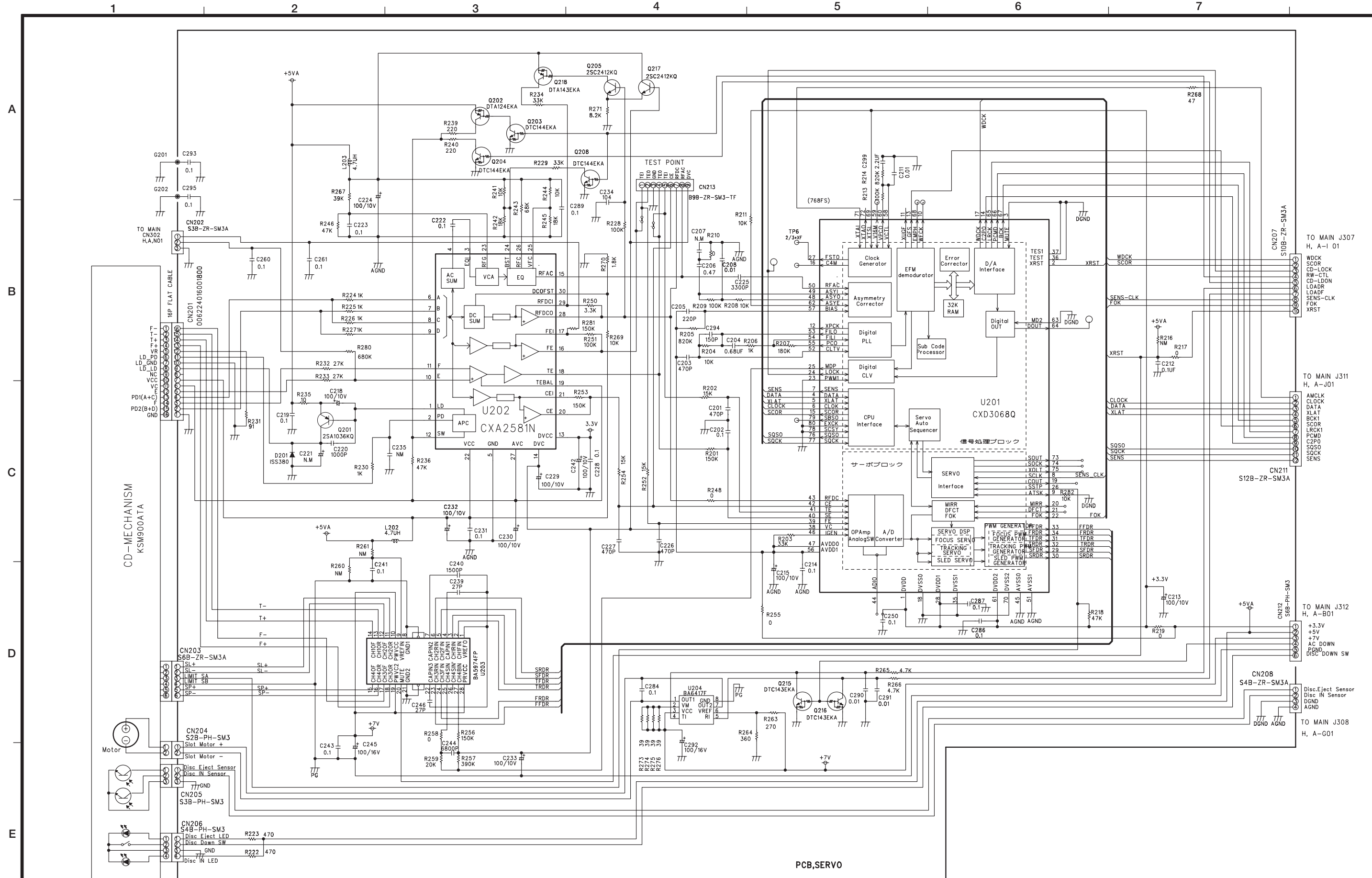
CD Player **CD-01U/CD-01U Professional**



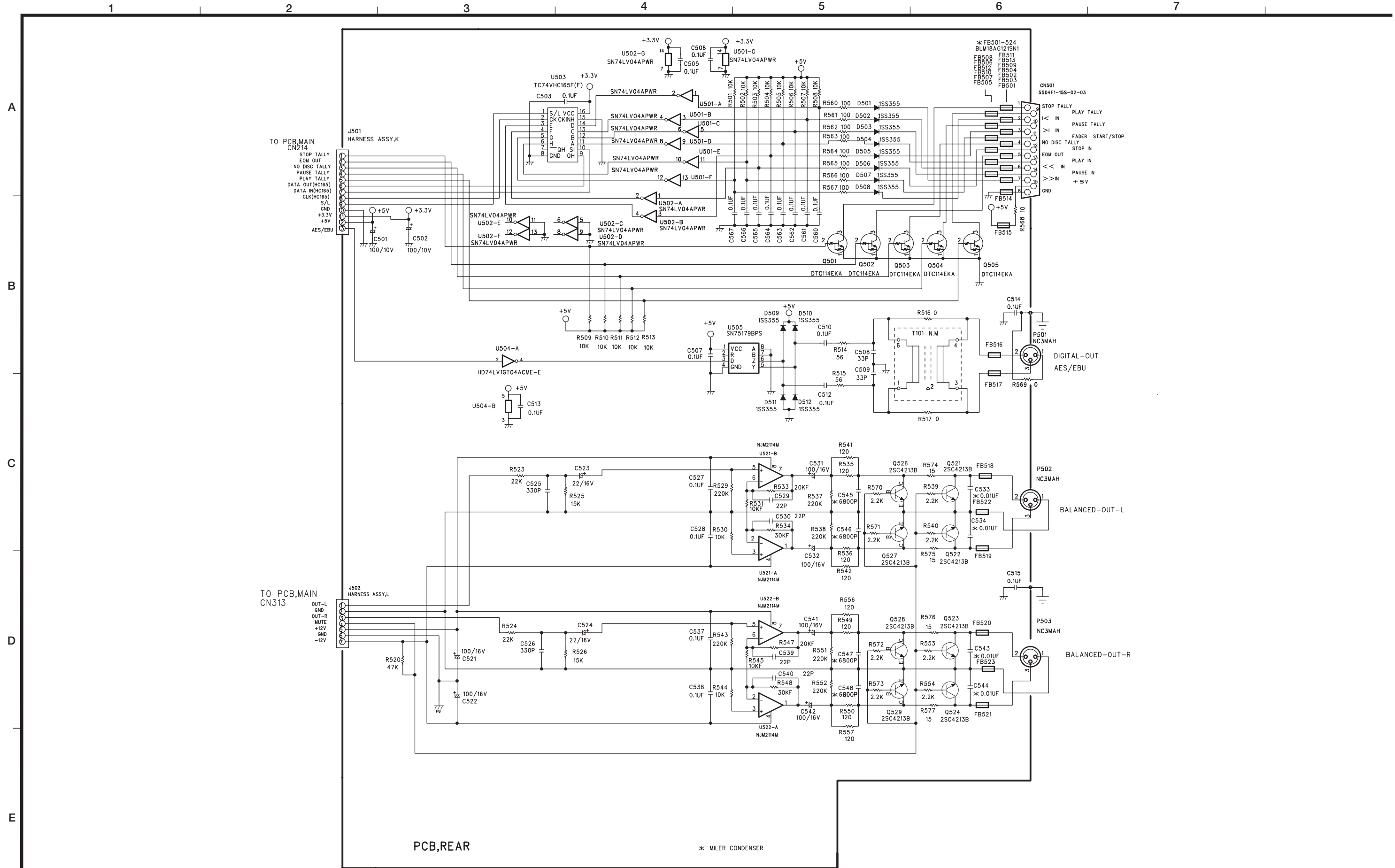
DSP PCB JUMPER表

	J801	J803	J806	J807	J810 J811 J812 J813	J814 J821	J802 J804 J808
PCBA, DSP CD-01U/Pro	SHORT	SHORT	SHORT	SHORT	SHORT		





CD Player **CD-01U/CD-01U Professional**



# TASCAM CD-01U/CD-01UPRO

CONTROL I/O Terminals  
RS-232C Protocol Specifications

Ver. 1.02  
July 2005

TEAC

## 1. Overview

The CD-01U/CD-01U PRO (here referred to as “controlled device”) functions can be controlled using a serial RS-232C connection from an external device, such as a computer. Such a device is referred to here as the “external controller”.

## 2. Specifications

### 2.1. Electrical Specifications

Conforms to standard	JIS X-5101 (equivalent to former JIS-C-6361 and EIA RS-232C standards) Note that this is not compatible with the RS-422 used in professional VTR units.
Impedance at receiver	When measured with an applied voltage of between +/-3 V and +/-15 V, the DC resistance is between 3 kohm and 7 kohm . Total load capacitance of < 2500 pF
Open circuit voltage at transmitter	< 25V
Open circuit voltage at receiver	< 2V
Signal voltage	When the open circuit voltage at the receiver is 0 V, the signal voltage is between +/-5 V and +/-15 V against a load impedance of between 3 kohm and 7 kohm .
Signal discrimination	Logical “1” = < -3V Logical “0” = > +3V

### 2.2. Communication format

Circuit type	3-wire, Half-duplex
Transmission type	Digital binary serial
Data speed (baud rate)	9600/19200/38400 bit/sec
Word length	8-bit
Parity bit	None
Stop bit	1 bit
(* Word length, parity bit, and stop bit of CD-01U are fixed.)	

### 2.3. Connector pin-out

Connector                      D-sub 9pin female (Inch screw thread)

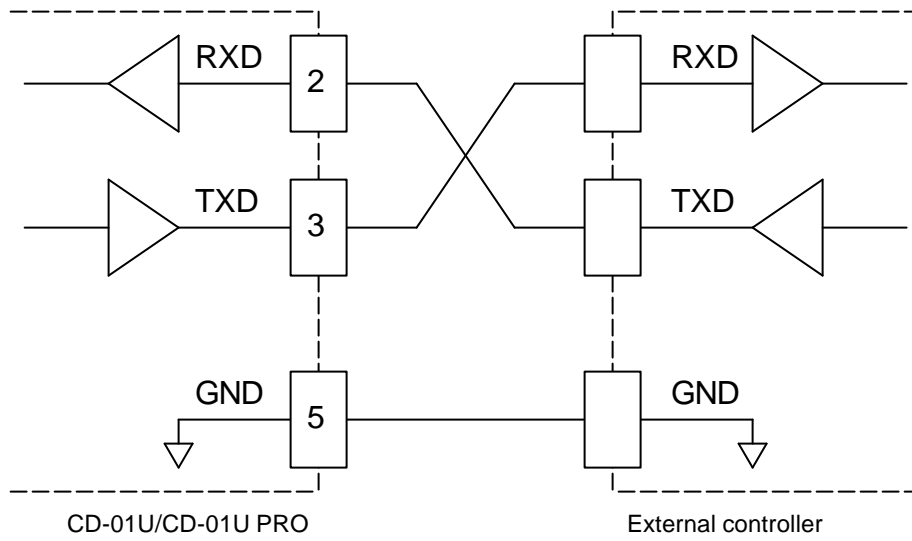


Terminal pin-out and input/output signals

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	-	(Reserved)	Reserved
8	-	(Reserved)	Reserved
9	-	NC	Not connected

\*1: Impress voltage complied with RS-232C standard to Rx Data.

\*2: CD-01U doesn't have RTS/CTS terminals for loop-back in this connector. Make sure the specifications of external controller and if necessary, please have the loop-back circuit outside of the CD-01U.



### 3. Command Format

#### 3.1. Command Format Overview

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

The codes described here are transmitted in ASCII format (e.g. a command described as "23" is transmitted as ASCII '2' followed by ASCII '3').

Uppercase letters are used for letters 'A' through 'F'.

All commands must be prefixed by a line-feed (LF) character [0Ah] followed by a Machine ID.

All commands are terminated by a carriage return (CR) character [0Dh].

#### Sample commands

##### Sample 1: PLAY command (Machine ID=0)

When the controlled device is in STOP/READY mode, this command starts playback.

The PLAY command is [12], and it is transmitted using the following sequence:

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

##### Sample 2: Direct search for track 12 (Machine ID=0)

In order to perform this operation, "DIRECT TRACK SEARCH PRESET [23]" command is used.

The track number is also sent as a parameter (data). This is sent in four bytes, as shown below:

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

The four data bytes represent, in order, the following digits of the track number: the "tens" digit (1), the "units" digit (2), the "thousands" digit (0), and the "hundreds" digit (0).

#### 3.2. Machine ID

Machine ID of this device is fixed to [0]. A command with other Machine ID than [0] is ignored.

## 3.3. 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	EJECT		
1A	TRACK 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

Version up history

Ver. 1.00: Released version.

Ver. 1.02: Following commands to be added.

PITCH CONTROL DATA PRESET [25]  
FADE IN/OUT TIME PRESET [2E]  
EOM TRACK TIME PRESET [32]  
TIMER RESUME PLAY SELECT [34]  
FADE IN/OUT SELECT [3E]  
TIME DATA SEND SELECT [3F]  
PLAY MODE SENSE [4E]  
ISRC SENSE [53]  
CURRENT TRACK TIME SENSE [58]  
TOTAL TRACK No. / TOTAL TIME SENSE [5D]  
PITCH CONTROL DATA RETURN [A5]  
FADE IN/OUT TIME RETURN [AE]  
EOM TRACK TIME RETURN [B2]  
TIMER RESUME PLAY SELECT RETURN [B4]  
FADE IN/OUT SELECT RETURN [BE]  
TIME DATA SEND SELECT RETURN [BF]  
PLAY MODE RETURN [CE]  
ISRC RETURN [D3]  
CURRENT TRACK TIME RETURN [D8]  
TOTAL TRACK No. / TOTAL TIME RETURN [DD]

### 3.4. Command Sequence

The CD-01U/CD-01U PRO does not have the “ACK” command for the each transport control command and data preset command.

When a request command is transmitted from external controller to the controlled device, the controlled device sends an appropriate return command.

When the mechanism status of the controlled device is changed (i.e. from stop to play), or an error occurs, the controlled device sends a command to notify such change to the external controller.

Some samples of command sequence are described below:

Note that an interval of at least 20 ms must be left between commands.

**Sample 1: Transport control (i.e. PLAY)**

The controlled device is in STOP mode.

Send the transport control (PLAY) command from the external controller to the controlled device.

The controlled device starts playback and sends the CHANGE STATUS return command.

Command		Status of the controlled device
External controller	Controlled device	
		STOP
PLAY	->	Starts playback
	<-	CHANGED STATUS Sent the CHANGE STATUS return command

**Sample 2: To preset a data (i.e. PITCH CONTROL DATA PRESET)**

Send the PITCH CONTROL DATA PRESET command with pitch control value from the external controller to the controlled device.

The controlled device sets the pitch control data.

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

**Sample 3: To request the status or a data currently set (i.e. PITCH CONTROL DATA)**

Send the PITCH CONTROL DATA PRESET command with request data [FF] from the external controller to the controlled device.

If the controlled device has the pitch control data, the controlled device returns the PITCH CONTROL DATA RETURN with pitch control value.

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

## 4. Command Detail

Commands, data, and machine IDs which are described here are represented in characters (ASCII). A command is a 2-byte character, a Machine ID is a 1-byte character, and each data is a 1-byte character.

### 4-1. INFORMATION REQUEST

Requests the internal software version number of the controlled device.

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

### 4-2. STOP

Puts the controlled device into STOP mode.

Command            10  
 Data                None  
 Return             None

### 4-3. PLAY

Puts the controlled device into PLAY mode.

Command            12  
 Data                None  
 Return             None

### 4-4. READY

Puts the controlled device into READY mode.

Command            14  
 Data                2 bytes  
 Return             None

Data 1	Data 2	Description	Remarks
0	0	Ready Off	
0	1	Ready On	

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

### 4-5. JOG

Turns the JOG mode on and off, and performs 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	Jog Forward	Frame accurate search in forward direction
1	1	Jog Reverse	Frame accurate search in backward direction

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-6. SHUTTLE**

Performs the search function in SHUTTLE mode.

SHUTTLE mode is maintained until the other command such as STOP, PLAY, or READY is received.

Command            16  
 Data                2 bytes  
 Return             None

Data 1	Data 2	Description	Remarks
0	0	Shuttle Forward	Searches in shuttle mode in forward direction
0	1	Shuttle Reverse	Searches in shuttle mode in backward direction

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-7. EJECT**

Ejects or load a disc.

Command            18  
 Data                None  
 Return             None

**4-8. TRACK SKIP**

Allows track selection to the previous or next start-of-track position.

The transport mode when this command is received (playing or pausing) is maintained after skipping.

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 playback position is beginning of a track (within 1 sec.), skips to the start point of the previous track. If not, skips to the start point of the current track.
1	0	Index Skip Next	Skips to the next Index.
1	1	Index Skip Previous	Skips to the previous index.

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-9. CALL**

Locates to the Call Point and puts the controlled device into Ready mode.

Command            1D  
 Data                None  
 Return             None

**4-10. AUTO CUE LEVEL PRESET**

Sets the Auto Cue level of the controlled device.

When this command is transmitted with request data ([FF]), the controlled device returns the AUTO CUE LEVEL RETURN command [A0].

The Auto Cue function is turned on and 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 detect level to -24dB.
0	1	-30dB	Sets the Auto Cue detect level to -30dB.
0	2	-36dB	Sets the Auto Cue detect level to -36dB.
0	3	-42dB	Sets the Auto Cue detect level to -42dB.
0	4	-48dB	Sets the Auto Cue detect level to -48dB.
0	5	-54dB	Sets the Auto Cue detect level to -54dB.
0	6	-60dB	Sets the Auto Cue detect level to -60dB.
0	7	-66dB	Sets the Auto Cue detect level to -66dB.
0	8	-72dB	Sets the Auto Cue detect level to -72dB.
F	F	Auto Cue level request	Requests the currently set the Auto Cue detect level.

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-11. DIRECT TRACK SEARCH PRESET**

Sets a track number. If the controlled device is in stop or play mode, the specified track is played back.

If the controlled device is in ready mode, the unit will enter ready mode at the start of the specified track.

This command is judged to be illegal if an attempt is made to jump to a non-existent track (e.g. track 11 on a 10-track disc).

Command            23  
 Data                4 bytes  
 Return              None

	Description	Remarks
Data 1	Tens digit of track number	Track number Sample) 2300: Track 23
Data 2	Units digit of track number	
Data 3	Thousands digit of track number	
Data 4	Hundreds of track number	

· If the specified track number does not exist on the disc, the controlled device sends ILLEGAL [F2].

**4-12. PITCH CONTROL DATA PRESET**

Sets the Pitch Control value from -12.5% to +12.5% in 0.1% steps.

When this command is transmitted with request data ([FF]), the controlled device returns the PITCH CONTROL DATA RETURN command [A5].

The pitch control function is turned on and off using the PITCH CONTROL SELECT command [35].

Command            25  
 Data                4 bytes or 2 bytes  
 Return              PITCH DATA RETURN [A5]

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	0 1	N1	Preset %	Positive (+) value Negative (-) value N1: Tens of pitch control value N2: Units of pitch control value N3: 1 <sup>st</sup> decimal of pitch control value [Sample] 2010: -2.0%
F	F	...		Pitch Control value request	Requests the currently set the Pitch Control value

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

**4-13. TIME SEARCH PRESET**

Locates to the specified track and time in minutes and seconds. If the controlled device is in stop or play mode, playback will start at the specified time. If the controlled device is in ready mode, the playback position will move to the specified time, and the controlled device will enter ready mode there. The time specified must be a valid time (e.g. the track must exist on the disc).

This command cannot use for MP3 discs.

Command            2C  
 Data                12 bytes  
 Return              None

	Description	Remarks
<b>Data 1</b>	Tens digit of track number	[Sample] 020003001030: 2tr 03m 10s 30f
<b>Data 2</b>	Units digit of track number	
<b>Data 3</b>	Thousands digit of track number	
<b>Data 4</b>	Hundreds digit of track number	
<b>Data 5</b>	Tens digit of minutes	
<b>Data 6</b>	Units digit of minutes	
<b>Data 7</b>	Thousands digit of minutes	
<b>Data 8</b>	Hundreds digit of minutes	
<b>Data 9</b>	Tens digit of seconds	
<b>Data 10</b>	Units digit of seconds	
<b>Data 11</b>	Tens digit of frames	
<b>Data 12</b>	Units digit of frames	

- If the specified data (Track number and time) does not exist on the disc, the controlled device sends ILLEGAL [F2].

#### 4-14. FADE IN/OUT TIME PRESET

Sets the fade in and out time from 1 to 10 seconds in 1 second steps.

When this command is transmitted with request data ([00FF] or [01FF]), the controlled device returns the FADE IN/OUT TIME RETURN command [AE].

The FADE mode is turned on and off using the FADE IN/OUT SELECT command [3E].

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

Data 1	Data 2	Data 3	Data 4	Remarks
0	0	Tens digit of Fade In time	Units digit of Fade In time	Sets the Fade In time
0	0	F	F	Requests the Fade In time
0	1	Tens digit of Fade Out time	Units digit of Fade Out time	Sets the fade Out time
0	1	F	F	Requests the Fade Out time

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].
- If the specified data is out of range, the controlled device sends ILLEGAL [F2].

#### 4-15. AUTO CUE SELECT

Turns the Auto Cue function on and off.

When this command is transmitted with request data ([FF]), the controlled device returns the AUTO CUE SELECT RETURN command [B0].

The Auto Cue level is set using the AUTO CUE LEVEL PRESET command [20].

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

Data 1	Data 2	Description	Remarks
0	0	AUTO CUE MODE OFF	Turns the Auto Cue function off
0	1	AUTO CUE MODE ON	Turns the Auto Cue function on
F	F	Auto Cue mode status request	Requests the Auto Cue mode status

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

#### 4-16. EOM TRACK TIME SELECT

Sets the EOM (End of message) time.

When this command is transmitted with request data ([FF]), the controlled device returns the EOM TRACK TIME RETURN command [B2].

The EOM time should be set to 00, 05, 10, 15, 20, 25, 30, or 35.

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

Data 1	Data 2	Description	Remarks
N1	N2	Sec	N1: Tens digit of EOM time N2: Units digit of EOM time (00, 05, 10, 15, 20, 25, 30, or 35)
F	F	EOM time request	Requests the EOM time

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-17. TIMER/RESUME PLAY SELECT**

Turns the Power-on-play mode and Resume Play mode on and off.

When this command is transmitted with request data ([FF]), the controlled device sends the RESUME PLAY SELECT RETURN command [B4].

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

Data 1	Data 2	Description	Remarks
0	0	Power-on-play OFF / RESUME OFF	
0	1	Power-on-play ON / RESUME OFF	
0	2	Power-on-play OFF / RESUME ON	
0	3	Power-on-play ON / RESUME ON	
F	F	Power-on-play/Resume status request	Requests the status of Power-on-play / Resume mode

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-18. PITCH CONTROL SELECT**

Turns the Pitch Control mode on and off.

When this command is transmitted with request data [FF], the controlled device returns the PITCH CONTROL SELECT RETURN command [B5].

The Pitch Control value is 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	Turns the Pitch Control mode off
0	1	Pitch Control On	Turns the Pitch Control mode on
F	F	Pitch Control mode status request	Requests the Pitch Control mode status

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-19. AUTO READY SELECT**

Turns the Auto Ready mode on and off.

When this command is transmitted with request data [FF], the controlled device returns 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	Turns the Auto Ready function off
0	1	Auto Ready On	Turns the Auto Ready function on
F	F	Auto Ready mode status request	Requests the Auto Ready mode status

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-20. REPEAT SELECT**

Sets the Repeat mode.

When this command is transmitted with request data [FF], the controlled device returns 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	Turns the repeat mode off
0	1	Repeat On	Turns the repeat mode on
F	F	Repeat mode status request	Requests the repeat mode status

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-21. INCR PLAY SELECT**

Turns the Incremental Play mode on and off.

When this command is transmitted with request data [FF], the controlled device returns 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 Play Off	Turns the Incremental Play function off
0	1	Incremental Play On	Turns the Incremental Play function on
F	F	Incremental Play function status request	Requests the Incremental Play function status

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-22. FADE IN/OUT SELECT**

Sets the Fade in/out mode.

When this command is transmitted with request data [FF], the controlled device returns the FADE IN/OUT SELECT RETURN command [BE].

Fade In and Out time are set using the FADE IN/OUT TIME PRESET command [2E].

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	Fade In/Out status request	Requests the Fade In/Out mode status

- If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-23. TIME DATA SEND SELECT**

Sets the Time mode of the time data that is sent out from the controlled device automatically (without any request command).

When this command is transmitted with request data [FF], the controlled device returns the TIME DATA SEND SELECT RETURN command [BF].

When specified data includes "Without Frame" information, frame information will not shown on the display of the controlled device.

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

Data 1	Data 2	Description	Remarks
0	0	Off	Time data (TIME DATA [88]) will not be sent out from the controlled device automatically
0	1	Elapsed Time	With frame data
0	2	Remain Time	With frame data
0	4	Total Remain Time	With frame data
1	1	Elapsed Time	Without frame data
1	2	Remain Time	Without frame data
1	4	Total Remain Time	Without frame data
F	F	Time Data Send status request	Requests the Output Time Data status

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-24. PLAY MODE SELECT**

Sets the Play mode.

The status of the PLAY mode can be requested using the PLAY MODE SENSE command [4E].

Command            4D  
 Data                2 bytes  
 Return             None

Data 1	Data 2	Description	Remarks
0	0	Normal Play	Sets the Play Mode to normal (continuous) play mode
0	1	Single Play	Sets the Play Mode to single play mode
0	2	Program Play	Sets the Play Mode to program play mode
0	3	Random Play	Sets the Play Mode to random play mode

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-25. PLAY MOSE SENSE**

Requests the status of the Play mode.

The contents of the reply are described in the PLAY MODE RETURN command.

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

**4-26. MECHA STATUS SENSE**

Requests the status of the mechanism.

The contents of the reply are described in the MECHA STATUS RETURN command.

Command            50  
 Data                None  
 Return             MECHA STATSU RETURN [D0]

**4-27. ISRC SENSE**

Requests the output of the ISRC code of the current track (ready mode) or the catalog (stop mode).  
This data can only be output when a playback-only disc is loaded.

Command            53  
Data                None  
Return              ISRC RETURN [D3]

**4-28. TRACK No. SENSE**

Requests the current track number.

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

**4-29. DISC STATUS SENSE**

Requests information on the presence or absence of a disc in the controlled device, and whether a disc is recordable or playback-only.

The contents of the reply are described in the DISC STATUS RETURN command.

Command            56  
Data                None  
Return              DISC STATUS RETURN [D6]

**4-30. CURRENT TRACK INFORMATION SENSE**

Requests the elapsed time form of the current track time (play or ready modes).

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

**4-31. CURRENT TRACK TIME SENSE**

Requests the specific form of the current track time (play or ready modes).

Command            58  
Machine ID        0  
Data                2 bytes  
Return              CURRENT TRACK TIME RETURN [D8]

Data 1	Data 2	Description	Remarks
0	0	Elapsed Time	Requests the elapsed time form of the track time
0	1	Remain Time	Requests the remaining time form of the track time
0	3	Total Remain Time	Requests the Total remaining time form of the track time

· If the specified data is other than described above, the controlled device sends ILLEGAL [F2].

**4-32. TOTAL TRACK No./TOTAL TIME SENSE**

Requests the total number of the tracks and the running time on a disc.

In MP3 discs, requests the total number of tracks.

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

**4-33. PGM TOTAL TRACK No./TOTAL TIME SENSE**

Requests the total number of the programmed tracks and the running time of the programmed tracks.

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

**4-34. ERROR SENSE**

Should be transmitted by the external controller on receipt of an ERROR SENSE REQUEST [F0] from the controlled device, to determine the exact error.

The contents of the reply are described in the ERROR SENSE RETURN command.

Command	78
Data	None
Return	ERROR SENSE RETURN [F8]

## 5. Return Command Detail

### 5-1. TIME DATA

When the Time mode is set to other than "OFF" with TIME DATA SEND SELECT command [3F], controlled device outputs the time data in specified form by TIME DATA SEND SELECT command [3F].

Command 88  
Data 8 bytes

	Description	Remarks
<b>Data 1</b>	Tens digit of minutes	
<b>Data 2</b>	Units digit of minutes	
<b>Data 3</b>	Thousands digit of minutes	
<b>Data 4</b>	Hundreds digit of minutes	
<b>Data 5</b>	Tens digit of seconds	
<b>Data 6</b>	Units digit of seconds	
<b>Data 7</b>	Tens digit of frames	
<b>Data 8</b>	Units digit of frames	

### 5-2. INFORMATION RETURN

Transmitted in response to an INFORMATION REQUEST command [0F].

Returns the software version of the controlled device.

Command 8F  
Data 4 bytes  
Request command INFORMATION REQUEST [0F]

Data 1	Description	Sample data for Data 1 - Data 4 0100 Version 1.00
<b>Data 1</b>	Tens digit of software version	
<b>Data 2</b>	Units digit of software version	
<b>Data 3</b>	1 <sup>st</sup> decimal digit of software version	
<b>Data 4</b>	Hundreds digit of software version	

### 5-3. AUTO CUE LEVEL RETURN

Transmitted in response to an AUTO CUE LEVEL PRESET command [20] with the request data ([FF]) to show the currently set Auto Cue level.

Command A0  
Data 2 bytes  
Request command AUTO CUE LEVEL PRESET [20]

Data 1	Data 2	Description	Remarks
0	0	-24dB	Auto Cue detect level is set to -24dB
0	1	-30dB	Auto Cue detect level is set to -30dB
0	2	-36dB	Auto Cue detect level is set to -36dB
0	3	-42dB	Auto Cue detect level is set to -42dB
0	4	-48dB	Auto Cue detect level is set to -48dB
0	5	-54dB	Auto Cue detect level is set to -54dB
0	6	-60dB	Auto Cue detect level is set to -60dB
0	7	-66dB	Auto Cue detect level is set to -66dB
0	8	-72dB	Auto Cue detect level is set to -72dB

**5-4. PITCH CONTROL DATA RETURN**

Transmitted in response to a PITCH CONTROL DATA PRESET command [25] with the request data ([FF]) to show the currently set Pitch Control value.

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

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	0 1	N1	Preset %	Positive (+) value Negative (-) value N1: Tens digit of pitch control value N2: Units digit of pitch control value N3: 1 <sup>st</sup> decimal of pitch control value Sample) 2310: -2.3%

**5-5. FADE IN/OUT TIME RETURN**

Transmitted in response to a FADE IN/OUT TIME PRESET command [2E] with the request data ([00FF] or [01FF]) to show the currently set the Fade In and Out time.

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

Data 1	Data 2	Data 3	Data 4	Remarks
0	0	Tens digit of Fade In time	Units digit of Fade In time	Fade In time
0	1	Tens digit of Fade Out time	Units digit of Fade Out time	Fade Out time

**5-6. AUTO CUE SELECT RETURN**

Transmitted in response to an AUTO CUE SELECT command [30] with the request data ([FF]) to show the currently set the Auto Cue mode status .

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

Data 1	Data 2	Description	Remarks
0	0	Auto Cue Off	Auto Cue function is turned off
0	1	Auto Cue On	Auto Cue function is turned on

**5-7. EOM TRACK TIME RETURN**

Transmitted in response to an EOM TRACK TIME PRESET command [32] with the request data ([FF]) to show the currently set EOM time.

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

Data 1	Data 2	Description	Remarks
N1	N2	Sec	N1: Tens digit of EOM time N2: Units digit of EOM time 00=Off

**5-8. TIMER/RESUME PLAY SELECT RETURN**

Transmitted in response to a TIMER/RESUME PLAY SELECT command [34] with the request data ([FF]) to show the currently set the Power-on-play/Resume function status .

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	

**5-9. PITCH CONTROL SELECT RETURN**

Transmitted in response to a PITCH CONTROL SELECT command [35] with the request data ([FF]) to show the currently set the Pitch Control mode status .

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

Data 1	Data 2	Description	Remarks
0	0	Pitch Control Off	Pitch Control mode is turned off
0	1	Pitch Control On	Pitch Control mode is turned on

**5-10. AUTO READY SELECT RETURN**

Transmitted in response to an AUTO READY SELECT command [36] with the request data ([FF]) to show the currently set the Auto Ready mode status .

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

Data 1	Data 2	Description	Remarks
0	0	Auto Ready Off	Auto Ready function is turned off
0	1	Auto Ready On	Auto Ready function is turned on

**5-11. REPEAT SELECT RETURN**

Transmitted in response to a REPEAT SELECT command [37] with the request data ([FF]) to show the currently set the repeat function status .

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

Data 1	Data 2	Description	Remarks
0	0	Repeat Off	Repeat mode is off
0	1	Repeat On	Repeat mode is on

**5-12. INCR PLAY SELECT RETURN**

Transmitted in response to an INCR PLAY SELECT command [3A] with the request data ([FF]) to show the currently set the Incremental Play function status .

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

Data 1	Data 2	Description	Remarks
0	0	INCR Play Off	Incremental Play function is turned off
0	1	INCR Play On	Incremental Play function is turned on

**5-13. FADE IN/OUT SELECT RETURN**

Transmitted in response to a FADE IN/OUT SELECT command [3E] with the request data ([FF]) to show the currently set the Fade In/Out function status .

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	

**5-14. TIME DATA SEND SELECT RETURN**

Transmitted in response to a TIME DATA SEND SELECT command [3F] with the request data ([FF]) to show the currently set the output time data status .

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

Data 1	Data 2	Description	Remarks
0	0	Off	
0	1	Elapsed Time with frames	
0	2	Remain Time with frames	
0	4	Total Remain Time with frames	
1	1	Elapsed Time without frames	
1	2	Remain Time without frames	
1	4	Total Remain Time without frames	

**5-15. PLAY MODE RETURN**

Transmitted in response to a PLAY MODE SENSE command [4E] with the request data ([FF]) to show the currently set the Play Mode status .

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

Data 1	Data 2	Description	Remarks
0	0	Continue	
0	1	Single	
0	3	A-B Repeat	
0	4	Program (program is existing)	
0	5	Program (no programmed tracks)	
0	6	Random	

**5-16. MECHA STATUS RETURN**

Transmitted in response to a MECHA STATUS SENSE command [50] and gives the current mechanism status 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	A disc is not loaded
0	1	Eject / load	Ejecting or Loading a disc
0	2	Eject	Ejecting a disc
1	0	Stop	Transport is in stop mode
1	1	Play	Transport is playing
1	2	Ready	Transport is pausing

**5-17. ISRC RETURN**

Transmitted in response to an ISRC SENSE command [53], giving the ISRC disc catalog number (stop mode) or current track code (play or ready modes).

ISRC codes are only available from playback-only discs. If an attempt is made to read an ISRC code from any other type of disc, the controlled device will return "0". The '0' will also be transmitted if an attempt is made to read an ISRC code from a playback-only disc which has no such codes recorded on it.

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

	Description	Remarks
Data 1-12	ISRC code	
Data 13-25	Catalog No.	

**5-18. TRACK No. RETURN**

Transmitted in response to a TRACK No. SENSE command [55], giving the current track status.

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

	Description	Remarks
Data 1	EOM Status	00: Does not show the EOM status
Data 2		01: Shows the EOM status
Data 3	Tens digit of the Track Number	
Data 4	Units digit of the Track Number	
Data 5	Thousands digit of the Track Number	
Data 6	Hundreds digit of the Track Number	

**5-19. DISC STATUS RETURN**

Transmitted in response to a DISC STATUS SENSE command [56], giving the status of the loaded disc.

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

<b>Data 1</b>	Disc Status	00: No Disc
<b>Data 2</b>		01: A disc has been loaded
<b>Data 3</b>	Disc Type	00: CD-DA
<b>Data 4</b>		02: CD-DA (RW) 10: CD-Data (ROM) 12: CD-Data (RW)

**5-20. CURRENT TRACK INFORMATION RETURN**

Transmitted in response to a CURRENT TRACK INFORMATION SENSE command [57], giving the elapsed time of 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 tens digit of the program number	When Play Mode is set to PGM mode, returns the program number with data1 and data2.
<b>Data 2</b>	Units digit of the track number or Units digit of 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 minutes	
<b>Data 6</b>	Units digit of minutes	
<b>Data 7</b>	Thousands digit of minutes	
<b>Data 8</b>	Hundreds digit of minutes	
<b>Data 9</b>	Tens digit of seconds	
<b>Data 10</b>	Units digit of seconds	
<b>Data 11</b>	Tens digit of frames	
<b>Data 12</b>	Units digit of flames	

**5-21. CURRENT TRACK TIME RETURN**

Transmitted in response to a CURRENT TRACK TIME SENSE command [58], giving the specified form of the time data of the current track.

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

	Description	Remarks
<b>Data 1</b>	Time Mode	00: Elapsed time
<b>Data 2</b>		03: Total remain time 10: Track remain time
<b>Data 3</b>	Tens digit of minutes	
<b>Data 4</b>	Units digit of minutes	
<b>Data 5</b>	Thousands digit of minutes	
<b>Data 6</b>	Hundreds digit of minutes	
<b>Data 7</b>	Tens digit of seconds	
<b>Data 8</b>	Units digit of seconds	
<b>Data 9</b>	Tens digit of frames	
<b>Data 10</b>	Units digit of frames	

**5-22. TOTAL TRACK No./TOTAL TIME RETURN**

Transmitted in response to a TOTAL TRACK No./TOTAL TIME SENSE command [5D], giving the total number of the tracks and the running time on a disc.

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

	Description	Remarks
<b>Data 1</b>	Tens digit of total number of tracks	
<b>Data 2</b>	Units digit of total number of tracks	
<b>Data 3</b>	Thousands digit of total number of tracks	
<b>Data 4</b>	Hundreds digit of total number of tracks	
<b>Data 5</b>	Tens digit of minutes	
<b>Data 6</b>	Units digit of minutes	
<b>Data 7</b>	Thousands digit of minutes	
<b>Data 8</b>	Hundreds digit of minutes	
<b>Data 9</b>	Tens digit of seconds	
<b>Data 10</b>	Units digit of seconds	
<b>Data 11</b>	Tens digit of frames	
<b>Data 12</b>	Units digit of frames	

**5-23. PGM TOTAL TRACK No./TOTAL TIME RETURN**

Transmitted in response to a PGM TOTAL TRACK No./TOTAL TIME SENSE command [5E], giving the total number of the programmed tracks and the 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 total tracks	
<b>Data 2</b>	Units digit of total tracks	
<b>Data 3</b>	Thousands digit of total tracks	
<b>Data 4</b>	Hundreds digit of total tracks	
<b>Data 5</b>	Tens digit of minutes	
<b>Data 6</b>	Units digit of minutes	
<b>Data 7</b>	Thousands digit of minutes	
<b>Data 8</b>	Hundreds digit of minutes	
<b>Data 9</b>	Tens digit of seconds	
<b>Data 10</b>	Units digit of seconds	
<b>Data 11</b>	Tens digit of frames	
<b>Data 12</b>	Units digit of frames	

**5-24. ERROR SENSE REQUEST**

Transmitted from the controlled device to the external controller to indicate an error condition. On receipt of this message, the external controller should issue an ERROR SENSE request [78] in order to determine the error type.

Command F0  
 Data None  
 Request command None

**5-25. ILLEGAL STATUS**

Transmitted from the controlled device to the external controller in order to indicate illegal status, caused by an invalid command having been received. The external controller does not need to reply to this message (though it may, of course, attempt to re-send a corrected version of the message, etc.)

Command F2  
 Data None  
 Request command None

**5-26. POWER ON STATUS**

Transmitted from the controlled device to the external controller in order to signal power-up.

Command F4  
 Data None  
 Request command None

**5-27. CHANGE STATUS**

Transmitted from the controlled device to the external controller. There are two types of change which may be transmitted, each or which requires a reply by the external controller, as explained below.

Command F6  
 Data 2 bytes  
 Request command None

Data 1	Data 2	Description	Remarks
0	0	Mechanism Status Change	Mechanism status has been changed
0	3	Track Status Changes	Track number or EOM status has been changed

**5-28. ERROR SENSE RETURN**

Transmitted in response to an ERROR SENSE command [78], giving the specific error that has occurred.

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

Data 1	N2	Error code( N1-N2N3)
Data 2	N3	1-01 TOC Read Error
Data 3	0	1-02 GFS Error
Data 4	N1	1-03 Focus servo Error
		1-04 Sub Q Reading Error
		1-05 Disk loading Error
		1-06 Sled Error
		1-10 SDRAM check Error
		1-13 System Error

**\*\*\* Your unit must be version V1.02 for these commands to be supported.**  
 (for update instructions please visit [www.tascam.com](http://www.tascam.com))

## ご注意

### CD（コンパクトディスク）の取扱について

透明ディスクを使用しないでください。

本機は透明ディスクに対応しておりません。透明ディスクを使用すると、ディスクがロードできない場合や、イジェクトできない場合があります。

本機のEJECTキーを押してもディスクをイジェクトしない場合、DISPLAYキーとEJECTキーを同時に押すとディスクを取り出せることがあります。

## 追加機能

**インデックス番号01（オーディオCD）を表示/非表示にする機能が追加されました。ただし、インデックス番号02以降は表示されません。（取扱説明書10ページの表示窓、インデックス番号/ディレクトリ番号表示参照）**

インデックス番号01を非表示にするには、DISPLAYキーを2秒以上押しIndex OFFモードに切り替えます。

再表示するには、DISPLAYキーを2秒以上しIndex ONモードに切り替えます。

設定したモードは電源を切ってもバックアップされています。

## Additional function

Index number display mode is added (please refer to ④INDEX/DIR indicator on page 11, “Display” section of the Owner’s Manual).

Pressing the DISPLAY key over two seconds switches Index ON and OFF mode (the default setting is ON).

When the mode is OFF, the index number 01 will not be shown on the display. However, the index number 02 and following index numbers will be displayed.

The setting remains even the power is turned OFF.

# TASCAM

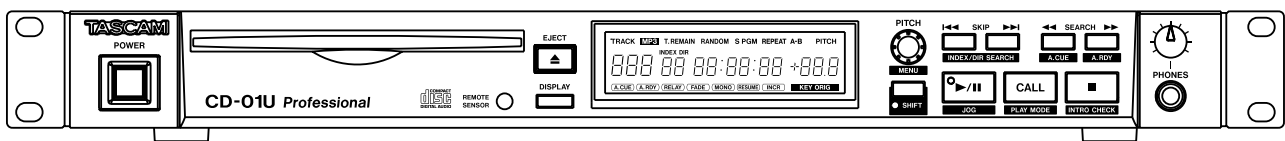
TEAC Professional Division

D00864010A

# CD-01U / CD-01UPro

## CD PLAYER

### OWNER'S MANUAL



# Important Safety Precautions



CAUTION: 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.

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 \_\_\_\_\_

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

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 the customers in Europe

### 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.

## Pour les utilisateurs en Europe

### AVERTISSEMENT

Il s'agit d'un produit de Classe A. Dans un environnement domestique, cet appareil peut provoquer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre des mesures appropriées.

## Für Kunden in Europa

### Warnung

Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

## CE Marking Information

- a) Applicable electromagnetic environment: E4
- b) Peak inrush current: 5.2 A

# Important Safety Instructions

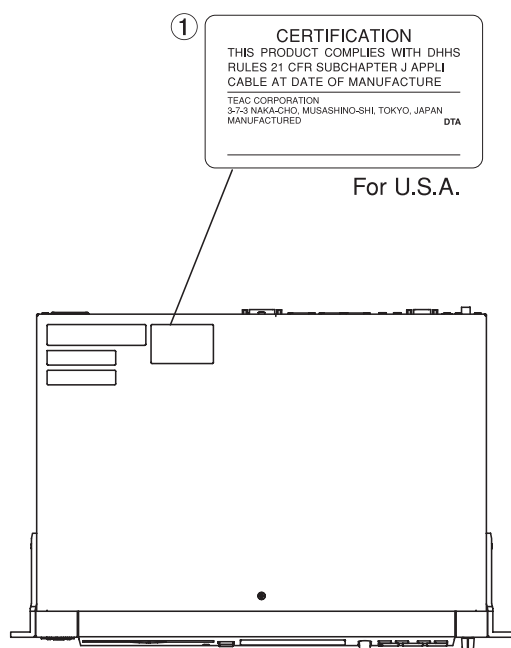
- 1 Read these instructions.
  - 2 Keep these instructions.
  - 3 Heed all warnings.
  - 4 Follow all instructions.
  - 5 Do not use this apparatus near water.
  - 6 Clean only with dry cloth.
  - 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
  - 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.
- 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 switch in the off 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.
  - An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.



- 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.

# Safety Information

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 ①.



## CAUTION

- 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: KSM-900AAA  
Manufacturer: SONY Corporation  
Laser output: Less than 0.5 mW on the objective lens  
Wavelength: 775 to 815 nm

# Table of contents

## 1 - Introduction

Supplied accessories .....	6
Environmental considerations .....	6
Some notes and precautions .....	6
Beware of condensation .....	6
Back up memory .....	6
Rack - mounting the unit .....	7
Handling of compact discs .....	7

## 2 - Remote control unit

Some notes and precautions .....	8
Batteries .....	8
Inserting batteries .....	8

## 3 - Connections

Audio equipment .....	9
Connecting analog audio equipment .....	9
Connecting digital audio equipment .....	9
Power source .....	9

## 4 - Features and their functions

Front panel .....	10
Display .....	11
Rear Panel .....	12
Remote Control Unit .....	12

## 5 - Menu operation

Menu configuration .....	14
Menu operation .....	14
Operation basics .....	14

## 6 - Playback

Discs for playback .....	15
About finalization .....	15
For MP3 CDs .....	15
Playback modes .....	16
Basic playback operation .....	16
Using headphones .....	16
Track selection .....	16
Selecting by track number .....	17
Search .....	17
Frame search .....	17

## 7 - Advanced operations

Auto Cue .....	18
Auto Ready .....	18
Resume .....	18
Call .....	18
Incremental play .....	19
Repeat playback .....	19
A to B repeat playback .....	19
Intro check .....	20
Output in monaural .....	20
Power on play .....	20
Pitch control .....	20
Changing the playback speed without changing the key (Key original) .....	21
Program playback .....	21
Editing a programmed track .....	21
Adding a track to the program .....	21
Deleting a programmed track .....	22
Fade in and fade out .....	22
Relay play .....	22
Time display switching .....	23
End of disc/track warning .....	23
Eject block .....	23
Fader start/Event start .....	23
Fader start/stop .....	23
Event start .....	24
Restoring factory default settings .....	24
External parallel control .....	24

## 8 - Specifications

Specifications .....	25
Dimensional drawing .....	26
Error Messages .....	26

# 1 - Introduction — Environmental considerations

Thank you for your purchase of the TASCAM CD-01U/CD-01U Pro 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

CD-01U/CD-01U Pro, 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.

---

## Supplied accessories

In addition to this manual, the CD-01U/CD-01U Pro have been packed with the following:

- RC-01UC remote control unit
- 2 AAA batteries
- Power cord
- Rack-mounting kit
- Warranty document

Should any of these items be missing, or if you encounter any damage, please contact your TASCAM supplier.

This unit was packed in its carton with special materials in order to prevent any damage during shipment.

Please save the carton and packing materials in the event you need to transport the unit in the future.

---

## Environmental considerations

The CD-01U/CD-01U Pro may be used in most places, but to maintain top performance and prolong operating life, do not place it in the following locations.

- On an unsteady surface, or where there is frequent vibration or resonance
- Near a window or where it can be exposed to direct sunlight

- Near heating or air conditioning vents, or in very hot or cold places
- Places with high humidity or poor ventilation
- Next to tuners, televisions or video decks, as this could cause noise or affect video images

---

## Some notes and precautions

Connect the CD-01U/CD-01U Pro only to the specified power source.

When unplugging the cord, grasp the plug itself.

Clean only with a dry cloth. Do not use benzene, paint thinner or other agents that could damage the surface. Dust or grime on the top cover can be removed with a soft cloth lightly moistened with a diluted mild detergent solution.

---

## Beware of condensation

If the unit is moved from a cold to a warm place, or used after a sudden temperature change, condensation inside the unit may occur, resulting in moisture on the internal mechanism or an inserted disc, thus impairing proper operation.

Should this occur, leave the player turned on for one or two hours so that the condensation can evaporate before you begin operation.

Also, please remove all discs from the unit if it will be moved, or not operated for an extended period of time.

---

## Backup Memory

Even when the power is turned off, the following settings are retained.

- Playback mode
- Time display mode
- Auto ready ON/OFF
- Auto cue ON/OFF
- Pitch control value
- All menu settings

# 1 - Introduction — Environmental considerations

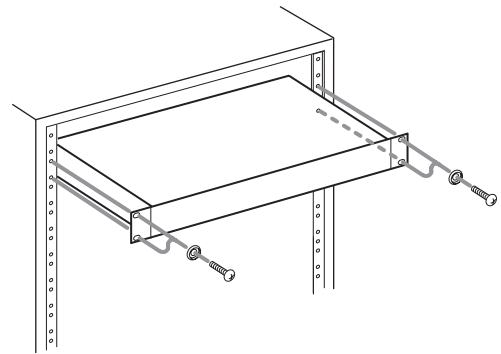
## Rack-mounting the unit

Use the rack-mounting kit to mount the unit in a standard 19-inch equipment rack, as shown below.

Remove the feet of the unit before mounting.

If you are mounting the unit in a rack, leave 1U of space above it and 10cm (4 in) or more of space at the rear. The CD-01U/CD-01U Pro can be mounted in any angle between 0 to 90 degrees.

See Environmental considerations on the previous page.

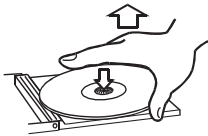


## Handling of compact discs

The CD-01U/CD-01U Pro have been designed for the playback of CD-DA format discs and MP3 files recorded in ISO9660 format. In addition to ordinary 5-inch and 3-inch CDs, it can also play properly recorded CD-R and CD-RW discs.

When removing a CD from its case, press down on the center of the disc holder to free the CD, then lift the disc out, holding it carefully by the edges.

- Removing a disc



- Hold the CD like this

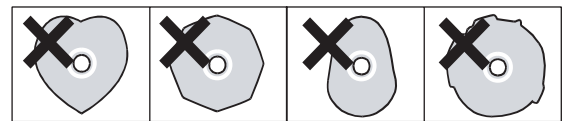


- Avoid getting fingerprints on the signal side (opposite the label side). When cleaning, wipe gently with a soft cloth from the center towards the outside edge. Dust and grime may cause skipping, so keep discs clean and store them in their cases when not being played.



- 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.
- Discs should be returned to their cases after use to avoid serious scratches that could cause the laser pickup to skip.

- Keep discs away from direct sunlight, and places of high heat and humidity. If left in such places, warping could result.
- Do not affix any labels or stickers to the label side of the disc. Do not write on the disc with a ballpoint pen.
- Please do not insert discs that have adhesive remaining from tape or stickers that have been removed. If they are inserted into the player, they could stick to the internal mechanism, requiring removal by a technician.



- Only use circular compact discs. Avoid using non-circular promotional, etc. discs.
- The CD-01U/CD-01U Pro cannot play unfinalized CD-R/RW discs.
- Do not use a C-thru disc.

The unit does not support a C-thru disc. Therefore, you may not be able to insert a C-thru disc or may not be able to remove a C-thru disc that has been successfully inserted to the unit.

In the latter case, try to press the DISPLAY and EJECT keys simultaneously, which may solve the problem.

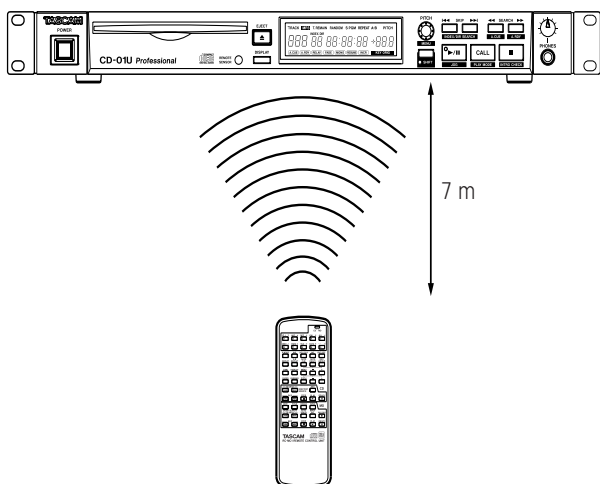
- Do not use the DualDisc. DualDisc is two-sided playback only discs. Insertion or ejection of a DualDisc into/from CD-01U/CD-01U Pro is likely to cause scratches to the surface of the DualDisc. Scratched discs may not play in CD products.

A DualDisc may not play in CD-01U/CD-01U Pro and a DualDisc could get stuck in and may not be able to be removed from the CD-01U/CD-01U Pro.

## 2 - Remote control unit

### Some notes and precautions

- When the remote control will not be used for an extended period of time, please remove the batteries to prevent the possibility of battery acid leakage which could damage the unit.  
Should leakage occur, remove and discard the batteries, and wipe the battery case thoroughly with a cloth.  
Avoid getting the battery liquid on the skin. After cleaning, replace with new batteries.
- The remote control functions by using an infrared light signal. When using the unit to control the CD-01U/CD-01U Pro, other devices that are turned on could be operated by its signal.
- If the range of remote operation becomes smaller, or commands do not always function properly, the batteries have become weak and should be replaced. Always replace both batteries with new batteries of the same type.
- Point the remote control to the remote sensor on the main unit.  
Do not obstruct the path between the remote control and the remote sensor.



### Batteries

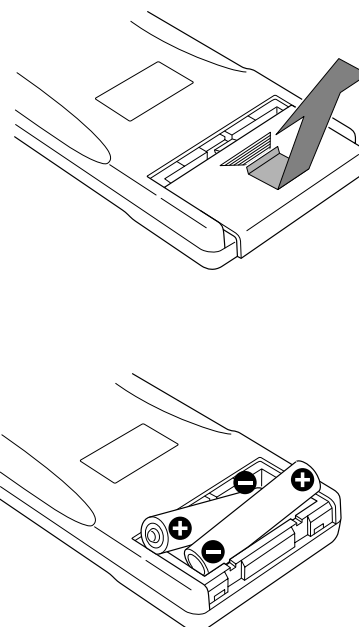
If batteries are used improperly, or if leakage or breakage occurs, the unit will not function.

Please observe the cautions indicated on the batteries and their packaging to ensure proper usage.

- Confirm + and - polarity and follow the indications when inserting new batteries into the remote control.
- Do not use old and new batteries together.
- Even if the battery is the same size, the voltage may differ.  
Do not use batteries of different specifications together.
- Do not attempt to recharge batteries that are non-rechargeable.
- Do not open or disassemble batteries, throw them into a fire or put them in water.

### Inserting batteries

1. Open the lid.
2. Confirm +/- polarity, and insert two AAA batteries.
3. Close the lid.



# 3 - Connections

Before connecting the CD-01U/CD-01U Pro to other units, please read their operation manuals thoroughly to ensure proper connection. Turn the power on only after all connections have been made.

## Audio equipment

### Connecting analog audio equipment

Connect analog stereo amplifiers, mixers and recorders to the analog line outputs.

**NOTE**

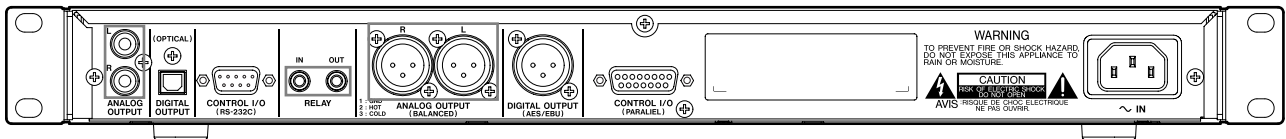
- Connection cables are not supplied with this unit.
- Do not bundle the pin connection cords with the power cord as noise or diminished sound quality could result.

### Connecting digital audio equipment

Digital stereo amplifiers, mixers and recorders can be connected through the optical digital output terminal.

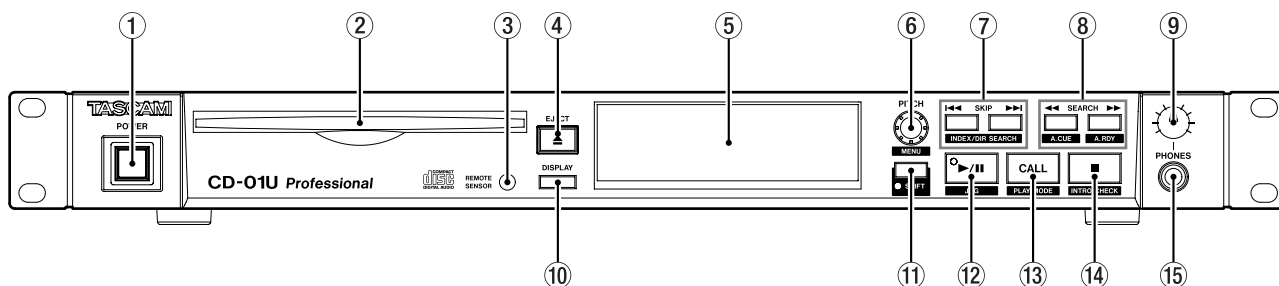
### Power source

This unit has been designed to operate on the specified power voltage only.  
Do not plug the power cord into outlets of any other voltage.



# 4 - Features and their functions

## Front panel



### ① POWER switch

### ② Disc slot

Insert CD into the slot, label side upwards.

### ③ Remote signal sensor

### ④ EJECT key

Ejects a disc. This key cannot be used when Eject Block is on and disc is being played back.

### ⑤ Display

The display is used to show the current status of the unit, as well as the current menu settings.

### ⑥ PITCH (MENU) control knob

Push this control to turn the pitch control function on or off. When it is on, pitch value is shown on the Display, and pitch can be controlled +/- 12.5%. Even when the power is turned off, the pitch control ON/OFF setting is retained.

When in shift mode, functions as the menu dial when rotated, and as the **ENTER** key when pushed.

When playback is paused and **SHIFT** indicator is lit, frame accurate search can be performed using with this knob.

### ⑦ SKIP (INDEX/DIR SEARCH) keys

Use these to perform track searches.

When **SHIFT** indicator is lit, searches the index (Audio CD discs) or directory (MP3 discs).

### ⑧ SEARCH (A.CUE, A.RDY) keys

Performs review or cue playback (search).

When in shift mode, selects the Auto Cue level or turns the Auto Ready mode on and off.

### ⑨ PHONES level control

Adjusts the headphone output level.

### ⑩ DISPLY key

Pressing this key changes the time mode on the display. Even when the power is turned off, the time mode is retained.

When in menu mode, exits the menu mode.

### ⑪ SHIFT key and indicator

Turns the shift mode on and off. When in shift mode, the indicator lights and other keys have shift functions which indicated under the keys.

Pressing this key again exits shift mode.

### ⑫ ►/|| (JOG) key and indicator

Changes the playback mode between playback and pause.

The indicator stays on solid in playback mode and flashes in pause mode.

When playback is paused and **SHIFT** indicator is lit, frame accurate search can be performed using with the **PITCH** knob.

### ⑬ CALL (PLAY MODE) key

Locates the playback to the last play start point.

When **SHIFT** indicator is lit, selects the playback mode.

### ⑭ ■ (INTRO CHECK) key

Use this key to stop playback.

When Incremental Play is activated, pressing this key pauses at the beginning of next track.

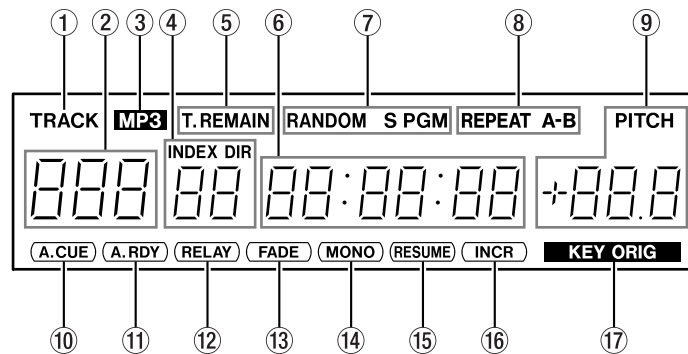
When in shift mode, enters Intro Check mode.

### ⑮ PHONES jack

Use a standard pair of stereo headphones, equipped with a 1/4-inch plug, with this jack.

# 4 - Features and their functions

## Display



### ① TRACK indicator

### ② Track number display

Shows the track number. In the menu mode, shows the menu number.

### ③ MP3 indicator

Lights when a MP3 CD-ROM disc is inserted.

### ④ INDEX/DIR indicator

Shows the index number (CD-DA) or directory number (MP3).

### ⑤ T and REMAIN indicators

When the time mode is set to remain time mode, these indicators light.

Total remain mode: Both **T** and **REMAIN** indicators light.

Track remain mode: **REMAIN** indicator lights.

### ⑥ Time display

This section is used to show time values, menu information or messages.

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

### ⑦ Play mode indicators

Indicates the current playback mode.

**RANDOM**: Random playback mode

**S**: Single playback mode

**PGM**: Programmed playback mode

### ⑧ REPEAT indicators

Indicates the current repeat mode.

### ⑨ PITCH indicator and pitch value display

When pitch control is activated, shows the pitch value and **PITCH** indicator lights.

In the menu mode, shows the menu parameters.

### ⑩ A.CUE indicator

Lights when Auto Cue function is turned on.

### ⑪ A.RDY indicator

Lights when Auto Ready function is activated.

### ⑫ RELAY indicator

Lights when Relay Play mode is activated.

### ⑬ FADE indicator

Lights when Fade in/out is turned on.

### ⑭ MONO indicator

Lights when in Mono output mode.

### ⑮ RESUME indicator

Lights when Resume mode is on.

### ⑯ INCR indicator

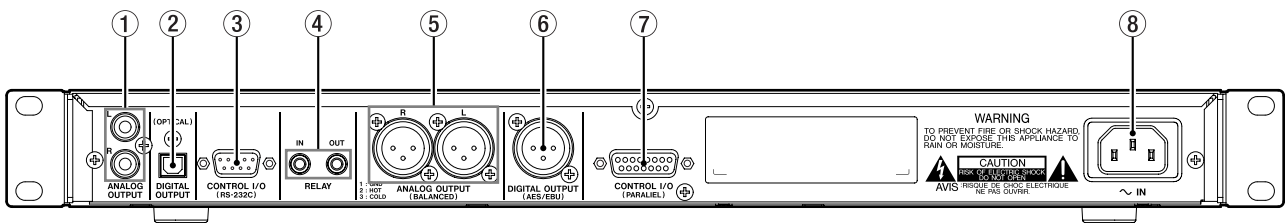
Lights when Incremental Play is activated.

### ⑰ KEY ORIGINAL indicator

Lights when Key Original function is turned on.

# 4 - Features and their functions

## Rear panel



### ① ANALOG OUTPUT terminals

The analog line output terminals are for RCA pin jacks. The maximum output level is +6 dBV.

### ② DIGITAL (OPTICAL) OUTPUT terminal

Provides the digital audio signal in S/PDIF format. This connector outputs the 44.1KHz digital signals constantly even if pitch control is activated.

### ③ CONTROL I/O (RS-232C) connector

This RS-232C interface allows control by a computer or by other serial controllers. Consult your TASCAM dealer the TASCAM web site for details of this port if you wish to use it.

### ④ RELAY IN/OUT jacks

These jacks are used to perform the relay play operation between two or more CD-01U/CD-01U Pro, or perform the fader start or event start operation.

### ⑤ ANALOG OUTPUT (BALANCED) terminals (CD-01U Pro only)

The analog line output terminals are for XLR connectors. The maximum output level is +20 dBu.

### ⑥ DIGITAL (AES/EBU) OUTPUT terminal (CD-01U Pro only)

Provides the digital audio signal in AES/EBU format. This connector outputs the 44.1KHz digital signals constantly even if both control is activated.

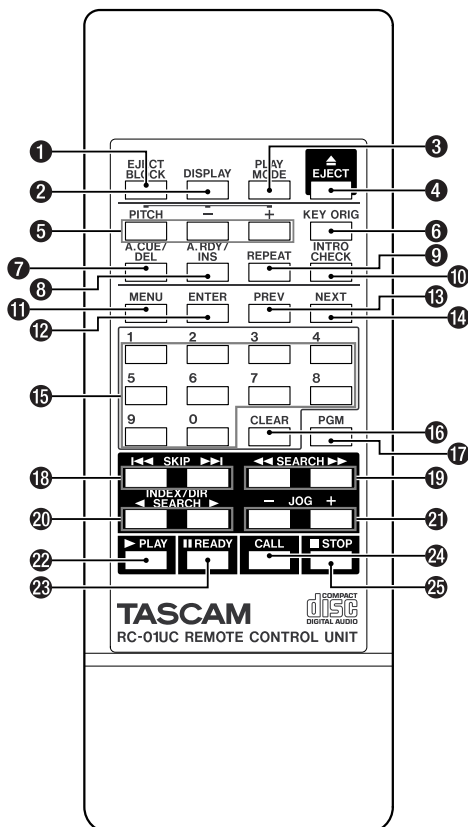
### ⑦ CONTROL I/O (PARALLEL) connector (CD-01U Pro only)

Parallel control from an external devices can be performed.

### ⑧ ~ IN

Connect the power cable supplied with the CD-01U/CD-01U Pro.

## Remote Control Unit



### ① EJECT BLOCK key

This turns the Eject Block mode on and off.

### ② DISPLAY key

Pressing this key changes the time mode on the display.

### ③ PLAY MODE key

This selects the playback mode. During selection, the playback mode is indicated on the display in the following manner.

Normal playback (in disc order): no indication

Single playback: **S** lights up

Program playback: **PGM** lights up

Random playback: **RANDOM** lights up

### ④ EJECT key

Press this to eject the disc. This key cannot be used when Eject Block mode is on and the disc is being played back.

## 4 - Features and their functions

### 5 PITCH key +/- keys

Use these keys to perform the pitch control function.

### 6 KEY ORIG key

This turns the Key Original function on and off.

### 7 A.CUE/DEL key

Sets the Auto Cue level.

During program input, the selected program number track is deleted.

### 8 A.RDY/INS key

Turns the Auto Ready function on and off.

During program input, inserts a track into the program list.

### 9 REPEAT key

Turns the Repeat Play mode on and off.

Pressing and holding this key for one second or more enters the Repeat A-B mode.

### 10 INTRO CHECK key

Enters the Intro Check mode.

### 11 MENU key

Enters the Menu mode.

### 12 ENTER key

Confirms the menu options and confirms the settings and editing on the menu.

### 13 PREV key

Selects the previous menu option or setting on the menu.

### 14 NEXT key

Selects the next menu option or setting on the menu.

### 15 Number keys

These are used to select track numbers.

### 16 CLEAR key

During track number input, the track number is cleared when this key is pressed.

### 17 PGM key

Pressing this key enters the Program mode.

### 18 SKIP keys

Use these keys to skip to the previous track or the next track.

### 19 SEARCH keys

During playback or playback standby, press the key continuously for review or cue playback (search).

### 20 INDEX/DIR SEARCH key

Use this key to select the index (Audio CDs) or directory (MP3 discs).

### 21 JOG +/- keys

Pressing the key in pause mode performs the frame accurate search.

### 22 ► PLAY key

Press this key to start CD playback.

When incremental play function is activated, pressing this key play start from the next track.

### 23 || READY key

When this key is pressed during playback or while stopped, enters standby mode.

### 24 CALL key

Locates the playback to the last play start point.

### 25 ■ STOP key

Use this key to stop playback.

When incremental play function is activated, pressing this key pauses at the beginning of the next track.

# 5 - Menu operation

The various settings and editing operations possible with the CD-01U/CD-01U Pro are performed through menu options shown on the display. Among the many

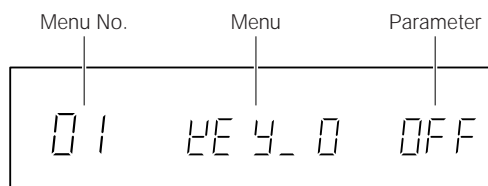
menu setting options, some may be made directly using the keys on the remote control.

No.	Menu	Function	Parameter <small>Underlined values are factory default settings</small>	Manual reference	Page
01	KEY-0	Key Original	ON, <u>OFF</u>	Key Original	21
02	BLOCK	Eject Block	<u>ON</u> , OFF	Eject Block	23
03	REPEAT	Repeat Playback A-B Repeat Playback	<u>OFF</u> , ON, A-B	Repeat Playback	19 19
04	PROG	Program	rogram operation	Program Playback	21
05	FADE	Fade In/Out	<u>OFF</u> , 0.5-10.0	Fade In/Out	22
06	RELAY	Relay Playback Fader/Event Start	<u>OFF</u> , ON, FDR	Relay Play 23	21
07	TIMER	Power on Play	ON, <u>OFF</u>	Power on play	20
08	MONO	Mono Output	ON, <u>OFF</u>	Output in Mono	20
09	RESUME	Resume	ON, <u>OFF</u>	Resume	18
10	EOM	EOM Time 25, <u>30</u> , 35 sec.	OFF, 5, 10, 15, 20,	EOM	23
11	INCR	Incremental Play	ON, <u>OFF</u>	Incremental Play	19
12	PITCH	Pitch Step	0.1, 0.5, 1.0 %	Pitch Control	20
13	RS232C	Baud rate setting	96, 192, 384		
14	F-PRE	Factory Preset	(SURE)	Restoring the default setting	24
15	U-DATA	User Data	<u>ON</u> , OFF	**	

\*\* When digital output signal from the AES/EBU terminal is not received correctly on the other digital equipment , set the user data to OFF then try again.

## Operation basics

1 Press the **PITCH** knob on the front panel when SHIFT indicator is lit or press the **MENU** key on the remote control.



2 Use the **PITCH** knob on the front panel, or **PREV/NEXT** keys or number keys on the remote control to select the menu item.

3 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control.

4 Use the **PITCH** knob on the front panel or **PREV/NEXT** keys on the remote control to select the setting value.

5 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control.

### NOTE

Pressing the **DISPLAY** key on either the front panel or the remote control exits the menu mode.

# 6 - Playback

## Discs for playback

The CD-01U/ CD-01U Pro can playback the types of discs listed below.

- Ordinary audio CDs available commercially (recorded in CD-DA format).
- CD-R and CD-RW discs recorded in CD-DA format, and properly finalized.

- MP3 files recorded in ISO9660 format on CD-R and CD-RW discs, and properly finalized.
- CD-R/RW discs that have not been finalized cannot be played back. Make sure the disc has been properly finalized before loading into the player.

## About finalization

Even if audio data is recorded onto a CD-R/RW disc, if the TOC (table of contents corresponding to the recorded data) is not written on the disc after recording, the disc cannot be played back on conventional CD players. Finalization is the process of writing the TOC on the disc.

A number of record companies have released titles on

copy control CD discs as a means of protecting artist copyrights. Some of these discs do not comply with standard CD format specifications, and may not be able to be played on this unit.

The CD-01U/CD-01U Pro can play back MP3 files recorded in formats which conform to ISO9660 level 1, level 2 and Joliet.

## For MP3 CDs

CDs containing MP3 files can be played by the CD-01U/CD-01U Pro with the following limitations on the number of files and directories.

Maximum number of directories: 254

Maximum number of MP3 files: 255

File format: MPEG 1 audio layer 3

Bit rate: 32kbps to 320kbps

Sampling frequency: 44.1KHz, Stereo

File extension: mp3, Mp3, mP3, MP3

### NOTE

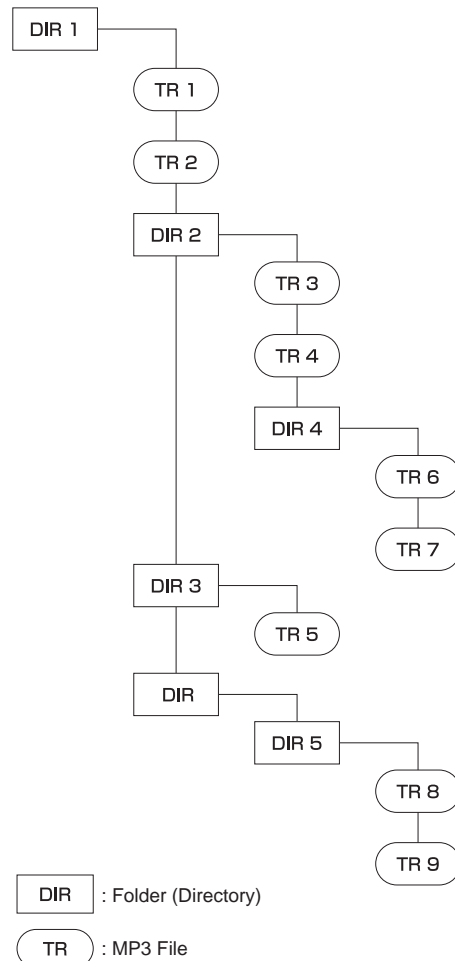
The CD-01U/CD-01U Pro can only read the files in the first session of a multi-session disc.

### NOTE

ID3 tag display for MP3 playback is not supported.

MP3 files are played as the order in the following diagram.

In this manner, playback is performed from the top level directories.



# 6 - Playback

## Playback modes

There are four different playback modes. The mode selected is indicated on the display.

Normal (continuous) playback mode: no indication lamp

Single playback mode: **S** is lit

Program playback mode: **PGM** is lit

Random playback mode: **RANDOM** is lit

The playback mode can be selected using the **PLAY MODE** key on the remote control. Pressing the key

changes the playback mode in the following order:

Cont → Single → Program → Random

You can also select the playback mode pressing the **CALL/PLAY MODE** key on the front panel when in **SHIFT** mode.

While the mode can be changed from any playback mode, the explanation in this manual will assume the user is starting from the normal Continuous mode.

## Basic playback operation

1 Push the **POWER** switch to turn on the unit.

The display will indicate NO DISC.

2 Insert a disc into the slot, label side upwards.

After a disc is inserted, the total playing time and number of tracks will be displayed.

### NOTE

Do not force the disc into the slot, the CD-01U/CD-01U Pro will pull the disc when partially inserted.

3 Press the **▶/||** key on the front panel or **▶** key on the remote control unit.

The play indication will light up, and playback begins from track 1. The number of the current track in play is indicated on the display.

To stop playback, press the **■** key on the front panel or remote control unit.

To pause playback, press the **▶/||** key on the front panel again or **||** key on the remote control unit.

The indication will blink, and the unit will enter play-

back standby mode.

To resume playback, press the **▶/||** key or the front panel or **▶** key on the remote control.

### To remove the disc

Press the **EJECT** key on either the front panel or remote control unit.

### NOTE

You can insert back a disc into the slot by pressing the **EJECT** key or pull the disc and slot it in again.

### NOTE

When Eject Block is activated, **EJECT** key cannot be used when disc is being played back.

### To play a desired track

Press the **SKIP** key to select the desired track or numerical keys.

## Using headphones

Plug the headphone cord into the PHONES jack.

Adjust the volume with the volume control.

### WARNING

When using headphones, take care not to turn the vol-

ume too high. Listening at high volumes for extended periods of time may result in permanent hearing damage.

## Track selection

Select desired tracks for playback with the skip keys on the front panel or on the remote control.

To restart playback from the beginning of the track in play, press the **◀◀** once.

To skip to the previous track, press **◀◀** twice.

To skip to the next track, press **▶▶** once.

When Auto Cue is off and the CD-01U/CD-01U Pro is in stop or play mode, playback begins after selecting the track.

When Auto Cue is off and the CD-01U/CD-01U Pro is in pause mode, the beginning of selected track is located, and the unit enters playback standby mode.

When Auto Cue is on and the CD-01U/CD-01U Pro is in play mode, playback begins after selecting the track.

When Auto Cue is on and the CD-01U/CD-01U Pro is in pause or stop mode, when a track is selected, the point where sound begins (not where the track begins) on that track is located, and the unit enters playback standby mode.

# 6 - Playback

---

## Selecting by track number

Using the number keys on the remote control, the number of the desired track can be entered directly.

Even numbers with two (Audio CD) or three (MP3) digits can be entered easily.

For example:

Track 9 (Audio CD): press 0 then press 9.

Track 9 (MP3): press 0, 0, and 9.

---

## Search

During playback or playback standby, pressing the **SEARCH** keys continuously enables the search of a desired portion within a track for playback.

### **NOTE**

The search function does not operate with MP3 discs.

---

## Frame search

During playback standby, using the **PITCH** knob in shift mode performs the frame accurate search.

Also, during playback standby, pressing the **JOG +/-** keys on the remote control performs the frame search.

### **NOTE**

This function does not operate with MP3 discs.

# 7 - Advanced operations

## Auto Cue

When the Auto Cue function is turned on and a track is selected, the point where sound begins (not where the track begins) on that track is located to and the unit enters pause mode.

When the ► key is pressed, playback begins at exactly that point.

### NOTE

Auto Cue is not supported for MP3 playback.

### NOTE

During stop mode, to cue to the start of sound on track one, just press the ■ key.

## Auto Ready

When the Auto Ready function is on, after each track is played, playback standby mode is entered at the beginning of the next track.

The behavior of Auto Ready function is follows.

Continuous play mode:

Pause the beginning of the next track when playback of the current track is finished.

Single play mode:

Pause the beginning of the current track when playback of the current track is finished.

Program play mode:

Pause the beginning of the next programmed track when playback of the current track is finished.

### Turning the Auto Cue function on and off

Press the ◀◀ key on the front panel when **SHIFT** indicator is lit or **A.CUE/DEL** key on the remote control to select the auto cue level.

Auto cue level: OFF (default), -24, -30, -36, -42, -48, -54, -60, -66, -72 (dB)

When the Auto Cue function is activated, **A.CUE** indicator is lit on the display.

Even when the power is turned off, the Auto Cue setting is maintained.

### NOTE

When the Auto Cue function is also on, playback standby mode is entered at the beginning of the sound on the selected track, and not the beginning of that track.

### Turning the Auto Ready function on and off

Press the ▶▶ key on the front panel when **SHIFT** indicator is lit or **A.RDY/INS** key on the remote control to turn the function on and off.

When the Auto Ready function is on, **A.RDY** indicator is lit on the display.

Even when the power is turned off, the Auto Ready setting is maintained.

## Resume

When the resume function is on, the playback stop position is memorized and playback starts from that position when playback is resumed.

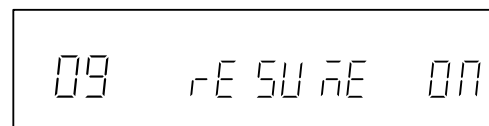
### NOTE

In the case of MP3 discs, the playback starts from the beginning of the last playing track when playback is resumed.

### Turning the Resume function on and off

Set the resume function on and off on the menu (menu

number 09 RESUME).



When the Resume function is on, **RESUME** indicator is lit on the display.

Even when the power is turned off, this setting is maintained.

## Call

Pressing the **CALL** key on either the front panel or remote control locates the unit to last play start point, and the unit enters playback standby mode.

### NOTE

This function is not supported for MP3 playback.

# 7 - Advanced operations

## Incremental play

This function allows auto-cueing of the playback point to the start of the next track when the **■** key on either the front panel or remote control is pressed, or a stop command is received from the external device.

### NOTE

Pressing the **■** key again or receiving the stop command again, unit enters stop mode.

When this mode is enabled, pressing the **▶** key on the remote control or receiving the play command from the external device starts playback from the beginning of the track following the current track.

### Turning the Incremental play function on and off

Set the incremental play function on and off on the menu (menu number 11 INCR).



When the this function is on, **INCR** indicator is lit on the display.

Even when the power is turned off, this setting is maintained.

## Repeat playback

Press the **REPEAT** key on the remote control to turn on the repeat mode. In this mode, all the tracks on the disc are played continuously.

During playback, if the repeat mode is turned on, playback continues as before, and when the last track finishes, playback resumes from the first track. If repeat mode is turned on when the deck is stopped, press the **PLAY** key to begin operation.

Combining the repeat mode with the Program, Single-track playback and Random playback functions will

enable Program Repeat, Single-track Repeat and Random Repeat operations, respectively.

### Turning the Repeat play function on and off

Turn the repeat play function on and off on the menu (menu number 03 REPEAT). Or press the **REPEAT** key on the remote control.

When the this function is on, **REPEAT** indicator is lit on the display. Even when the power is turned off, this setting is maintained.

## A to B repeat playback

If a specific portion between two points on the disc is specified, that portion can be played back repeatedly.

- 1 During playback and the repeat function is off, press and hold the **REPEAT** key on the remote control more than 1 second. Or set the repeat mode to A-B on the menu (menu number 03 REPEAT). **REPEAT** indicator flashes on the display.
- 2 Press the **REPEAT** key on the remote control or **PITCH** knob on the front panel at the beginning of the desired portion on the disc. **A-B** indicator flashes on the display.
- 3 At the end of the desired portion on the disc, press the **REPEAT** key on the remote control or **PITCH** knob on the front panel again. **REPEAT** and **A-B** indicators are lit up on the display, and the desired **A-B** section will be played repeatedly.

### To cancel Repeat A-B mode and resume normal playback

Press the **REPEAT** key on the remote control once more. There are three additional ways to cancel repeat A-B mode:

- Press **■** key.
- Search the other track.
- Eject the CD.

### NOTE

Both repeat start (A) and end (B) points can set to within a track.

### NOTE

This function is not supported for MP3 playback.

# 7 - Advanced operations

## Intro Check

The Intro Check function allows only the beginning of each track to be played for 10 seconds.

This function is operational both at stop and during normal playback.

- 1 Press the **STOP/INTRO CHECK** key on the front panel when **SHIFT** indicator is lit and playback stops. Or, pressing the **INTRO CHECK** key on the remote control to turn the intro check function on and off.

**Int** is shown on the display.

- 2 Press the **▶/||** key on the front panel or **▶** key on the remote control.

### NOTE

This function works in normal (continuous) play mode and program play mode.

To exit the intro check mode, press **■** key on either the front panel or remote control, or **INTRO CHECK** key on the remote control.

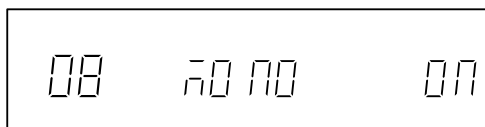
### NOTE

The intro check mode is also canceled when play mode is changed.

## Output in monaural

Both analog and digital output can be set to mono output mode.

Set the mono output mode on and off on the menu (menu number 08 MONO).



When the this function is on, **MONO** indicator is lit on the display.

Even when the power is turned off, this setting is maintained.

## Power on play

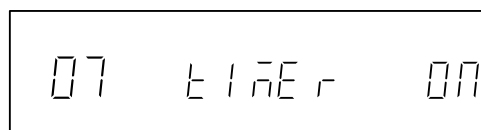
By using an external timer, you can set the CD-01U/CD-01U Pro to play the loaded disc automatically when the unit is turned on by the timer.

- 1 First, plug the power cord of the CD-01U/CD-01U Pro into the power outlet of the timer.
- 2 Load a CD into the unit.
- 3 Set the **TIMER** menu (menu number 07 **TIMER**) to on.

- 4 Set the timer to the desired time.

Consult the timer's operation manual for details.

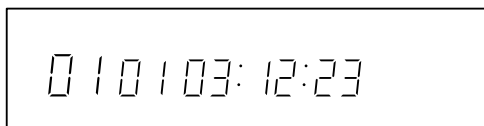
At the set time, the power to the CD-01U/CD-01U Pro will be turned on, and playback will automatically begin.



## Pitch control

When playing back an audio CD or MP3, the pitch (or speed) of the playback can be varied.

Pitch can be varied +/- 12.5%.



- 1 Press the **PITCH** knob on the front panel when **SHIFT** indicator is unlit or press the **PITCH** key on the remote control to turn the Pitch Control function on and off.

When the pitch control function is activated, pitch

value is shown on the display and **PITCH** indicator lights.

- 2 Rotate the **PITCH** knob or use the **PITCH +/-** keys to set the pitch.

Use the **PITCH** menu (menu number 12 **PITCH**) to adjust the pitch control steps from 0.1, 0.5, or 1.0% (Default: 0.1%).



Digital output provides the 44.1KHz digital signals constantly even if pitch control is activated.

# 7 - Advanced operations

## Changing the playback speed without changing the key (Key Original)

When the Key Original function is ON, you can change the playback speed without changing the key.

Turn the Key Original function on and off on the menu (menu number 01 KEY-O). Or pressing the **KEY ORIG** key on the remote control turns this function on and off.

Use the **PITCH** knob on the front panel when **SHIFT** indicator is unlit, or use the **PITCH** and **PITCH +/-** keys to change the playback speed without affecting the key.

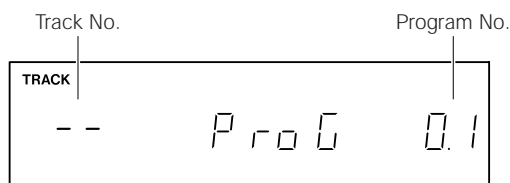
### NOTE

When the Key Original function is ON, you may find that the audio has artifacts not present when just Pitch is used. This is an expected result of the Key Original processing, it does not indicate a problem with the unit.

## Program playback

This function enables playback of selected tracks in any desired order. Up to 100 tracks can be selected from a CD for Program playback.

1 During stop mode, press the **PGM** key on the remote control.



Or enter the program menu (menu number 4 ProG) then press the **PITCH** knob.

2 Use the number keys or **SKIP** keys on the remote control, or **SKIP** keys on the front panel to select each desired track for program playback.

3 Press the **SEARCH ►►** key. The track number will be entered into the program.

Or turning the **PITCH** knob right enters the selected track number into the program.

4 Repeat the above step 2 and 3 until the desired program is completed.

5 When program is completed, press the **PITCH** knob on the front panel or **PGM** key on the remote control.

Even when the power is turned off, program is maintained.

### NOTE

When the disc is ejected, the program lists are erased.

## Editing a programmed track

1 Enter the program mode.

2 Use the **SEARCH** keys to select the track for editing. Also using the **PITCH** knob on the front panel to select the track for editing.

The track number will be shown in the display.

3 Use the number keys or **SKIP** keys on the remote control or **SKIP** keys on the front panel to edit the programmed track.

4 When editing is completed, press the **PITCH** knob on the front panel or **PGM** key on the remote control.

## Adding a track to the program

1 Enter the program mode.

2 Use the **SEARCH** keys on the front panel or remote control, or using the **PITCH** knob on the front panel to select the programmed track before the portion you wish to add a track.

The track number should be shown in the display.

3 Pressing the **DISPLAY** key and **SEARCH ►►** key simultaneously on the front panel or pressing the **A.RDY/INS** key adds the program step.

4 Use the number keys or **SKIP** keys on the remote control or **SKIP** keys on the front panel to input the track number of the track to be added.

5 Press the **PITCH** knob on the front panel or **PGM** key on the remote control to exit the program mode.

# 7 - Advanced operations

## Deleting a programmed track

- 1 Enter the program mode.
- 2 Use the **SEARCH** keys to select the track for deletion. Also using the **PITCH** knob on the front panel to select the track for deletion. The track number will be shown in the display.
- 3 Pressing the **DISPLAY** key and **SEARCH** ◀◀ key simultaneously on the front panel or pressing the **A.CUE/DEL** key deletes the selected track.
- 4 Pressing the **PITCH** knob on the front panel or **PGM** key on the remote control exits the program mode.

## Fade-in and fade-out

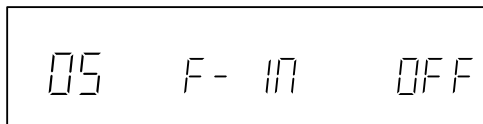
When this function is on and CD playback begins, the song fades in. When playback is finished, the song fades out.

The length of the fade in/out to/from the normal level can be set between 0.5 and 10 seconds in 0.5 second increments (Default setting: OFF).

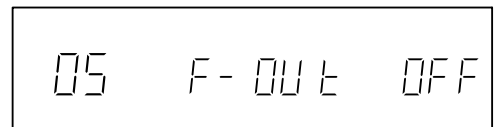
- 1 To set the fade operation, enter the fade menu (menu number 05 FADE).



- 2 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control to enter the fade in time setting.



- 3 Set the Fade in time using with the **PITCH** knob on the front panel or **PREV/NEXT** keys on the remote control.
- 4 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control to set the fade in time and enter the fade out time setting.



- 5 Set the Fade out time using with the **PITCH** knob on the front panel or **PREV/NEXT** keys on the remote control.
- 6 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control to set the fade out time and exit the menu.

## Relay Play

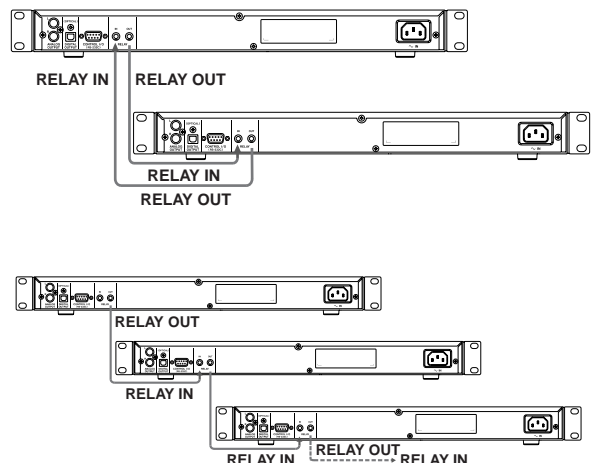
When the disc in the first unit in a chain plays to the end, the disc in the next unit in the chain will start.

### WARNING

Make all connections with power off.

1. Check to see that all the CD-01Us are turned off.
2. Refer to the diagrams, and connect the first CD-01U's RELAY OUT to the second CD-01U's RELAY IN, the second CD-01U's RELAY OUT to the third CD-01U's RELAY IN, and so on. Finally, connect the last CD-01U's RELAY OUT to the first CD-01U's RELAY IN.
3. Switch on power to all the CD-01Us.

4. To activate the relay play function, set the relay play menu (menu number 06 RELAY) to on for all the units in the chain.



# 7 - Advanced operations

## Time display switching

During audio CD playback (or playback standby), when the **DISPLAY** key on either the front panel or the remote control is pressed, the time display will switch through several modes in the following order.

- Elapsed track time (no display light indication)
- Remaining track time (**REMAIN** is lit in the display)
- Remaining disc time (**T.** and **REMAIN** are lit in the display)

When stopped, the total recording time is shown, regardless of the status of the **TOTAL** and **REMAIN** indicators.

When playing an MP3 disc, elapsed track time is always displayed, and the **DISPLAY** key does not operate. Even when the power is turned off, the time display mode setting is retained.

### NOTE

When in program play mode, remaining total program time (when **T.REMAIN** is lit) and total program time (when stopped) are shown.

## End of track warning (EOM)

When nearing the end of a track, a warning indication is shown on the display.

The number of seconds before the track end that the warning is displayed can be set beforehand, so that when playback reaches that point, the two colons will begin flashing on the display.

To set the warning display time, use the EOM menu (menu number 10 EOM).

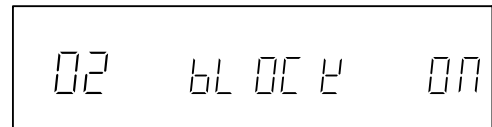
EOM time can be set from OFF, 5, 10, 15, 20, 25, 30 (default), and 35.

This function is not supported for MP3 playback.

## Eject block

When eject block is on, the **EJECT** key cannot be used when a disc is being played back or paused.

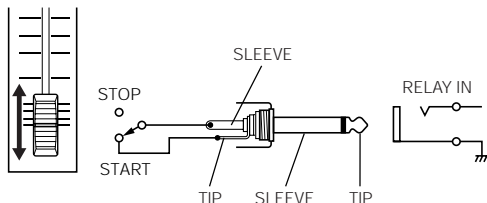
Use the eject block menu (menu number 02 BLOCK) to turn this function on and off.



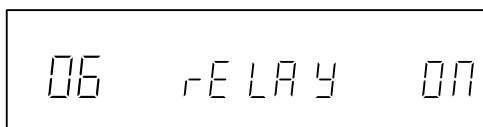
## Fader start/Event start

### Fader start/stop

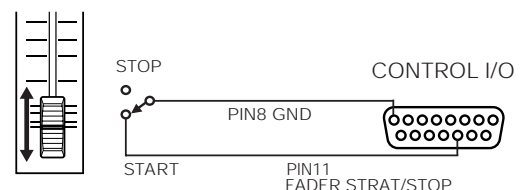
Connect the **RELAY IN** jack (mini jack) on the rear panel and fader start terminal on the external device which supports the fader start function.



The relay play menu (menu number 06 RELAY) should be set to **FDR**.



For CD-01U Pro only, connect the **CONTROL I/O** (**PARALLEL**) terminal on the rear panel and fader start terminal on the external device.



See more details for the **CONTROL I/O** terminal in the section **External parallel control** on page 24.

# 7 - Advanced operations

## Event start

Connect the RELAY IN jack (mini jack) on the rear panel and event start terminal on the external device which supports the event start function.

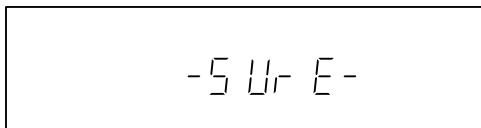
The relay play menu (menu number 06 RELAY) should be set to ON.



## Restoring factory default settings

To restore all settings to their factory defaults:

- 1 Select the factory preset menu (menu number 14 F-PRE).
- 2 The display shows 14 flashing, then press the **PITCH** knob on the front panel or **ENTER** key on the remote control to confirm the selection.
- 3 The display shows - **SURE** - flashing to reconfirm that this operation is surely desired.



- 4 Press the **PITCH** knob on the front panel or **ENTER** key on the remote control to restore all settings to their default values.

The following settings are restored to default values.

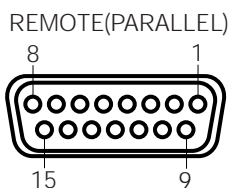
- Playback mode
- Time display mode
- Auto ready
- Auto cue
- Pitch control value
- All menu settings

### NOTE

You can cancel to restore the default settings either the stage 14 F-PRE or SURE is flashing by pressing the other keys except the SHIFT key and the PITCH knob on the front panel.

## External parallel control

The CD-01U Pro can be controlled from an external devices which supports a parallel interface via the CONTROL I/O terminal on the rear panel.



Pin No.	Description	In/Out
1	Stop tally	Out
2	Skip (Back)	In
3	Skip (Forward)	In
4	No Disc tally	Out
5	EOM tally	Out
6	Search (Back)	In
7	Search (Forward)	In
8	GND	
9	Play tally	Out
10	Pause tally	Out
11	Fader start/stop	In
12	Stop	In
13	Play	In
14	Pause	In
15	+5V	

In:

Input signals are active when low (ground) for > 30 ms.

Out:

Tally signals are open collector, with a maximum current of 50 mA.

+5V:

The maximum current supplied from this terminal is 50 mA.

# 8 - Specifications

## Specifications

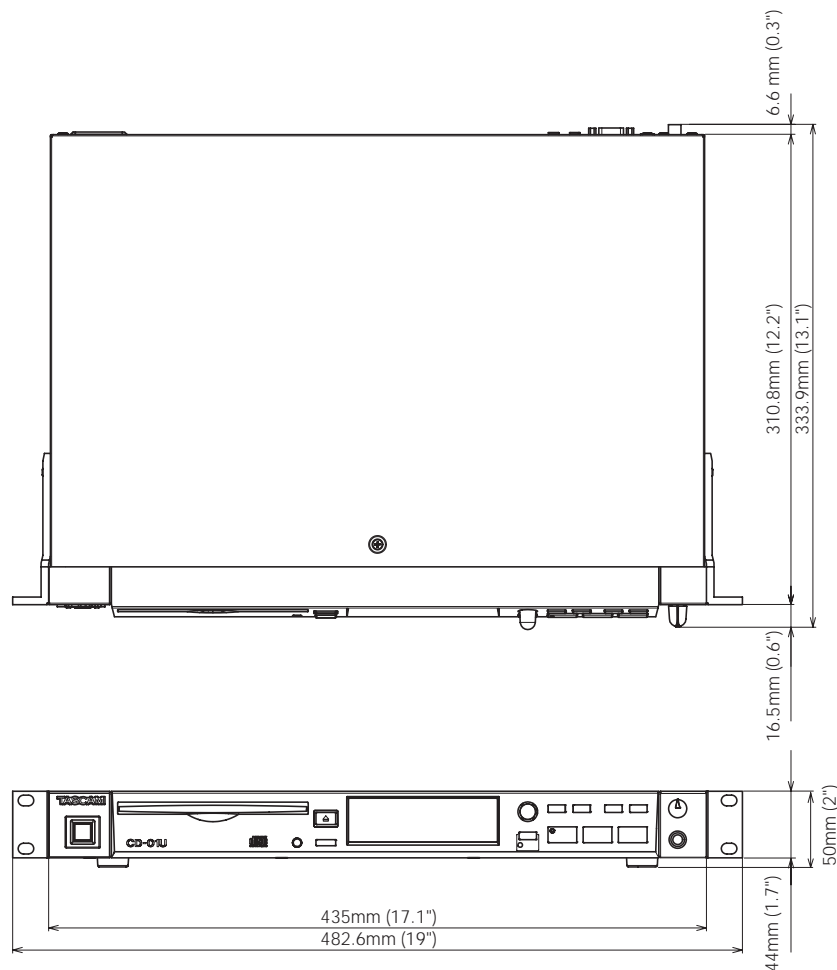
Type	Compact Disc player	
Discs	8 or 12cm (3.1 to 4.7inch) CD, CD-R/CD-RW	
Formats	Audio CD (CD-DA), MP3	
Number of channels	2-channel	
Resolution	16-bit	
Sampling frequency	44.1kHz	
Analog line outputs		
Connectors	RCA	
Maximum Output level	+6 dBV dBu	
Output impedance	1k $\Omega$	
Analog line outputs (CD-01U PRO only)		
Connectors	XLR-3-32 (1:GND, 2:HOT, 3:COLD)	
Maximum Output level	+20 dBu	
Output impedance	150 $\Omega$	
Headphones		
Connectors	standard stereo jack	
Maximum Output level	20 mW + 20 mW	
Load impedance	32 $\Omega$	
Digital input (Coaxial)		
Connectors	Optical	
Format	IEC60958-3 (S/PDIF)	
Digital output (AES/EBU, CD-01U PRO only)		
Connector	XLR-3-32	
Format	IEC60958-4 (AES/EBU)	
Frequency response	20Hz to 20kHz +0.5/- 1.0dB	
S/N ratio	> 95dB (20kHz LPF A-WTD)	
Dynamic range	> 98dB (20kHz LPF A-WTD)	
Total harmonic distortion	< 0.01% (200Hz HPF, 20kHz LPF)	
Channel separation	> 90 dB (at 1 kHz)	
Wow and flutter	Below measurable limits (less than 0.001%)	
Voltage requirements	USA/CANADA	120 CVAC, 60 Hz
	U.K./Europe	230 VAC,50HZ
	Australia	240 VAC,50Hz
Power consumption	9 W (CD-01U)	
	11 W (CD-01U PRO)	
Dimensions	482.6 x 50 x 333.9 mm	
	19 x 2 x 13.1 (in)	
Weight	3.5 kg (7.7 lbs)(CD-01U)	
	3.7 kg (8.1 lbs)(CD-01U Pro)	
Operating temperature range	5 to 40 degrees C (41° F to 104° F)	

For product improvement, specifications and external appearance are subject to change without notice.

Due to product improvement, the actual unit may appear differently than illustrations in the operation manual.

# 8 - Specifications

## Dimensional drawing



## Error messages

- Err 01 TOC Read error - the disc's Table of Contents cannot be read - try with another disc or remove and clean the existing disc before replacing it
- Err 02 GFS error GFS signal cannot be detected - try with another disc or remove and clean the existing disc before replacing it
- Err 03 Focus error - after repeating the attempt eight times to focus, an error still occurs - try with another disc or remove and clean the existing disc before replacing it
- Err 04 Sub-Q error - the sub-Q code cannot be detected - try with another disc
- Err 05 Loading error - the loading operation cannot be completed, even after retries, or there is an internal error - make sure that there are no obstructions preventing the loading operation
- Err 06 Sled error - an internal drive error - try turning the power off, waiting a few seconds, and turning it on again
- Err 07 S-DRAM error - an internal S-DRAM error - try turning the power off, waiting a few seconds, and turning it on again
- Err 08 System error - an internal error - try turning the power off, waiting a few seconds, and turning it on again

If any of the numbered error messages occur, try using another disc.

If the errors continue with a number of discs, turn the unit off, wait for a few seconds, and turn it on again.

If the errors still continue or other error occurs, contact your TASCAM distributor for repair.



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# CD-01U / CD-01UPro

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[www.teac.it](http://www.teac.it)

## **CD-01U/CD-01UPRO, Firmware update procedure**

### **Creation of the firmware update CD**

- 1) Have a blank CD-R data disc available, as well as a system capable of creating data CDs.
- 2) Download the latest version of the firmware from the TASCAM Service HP website and burn the firmware file onto the blank CD-R disc. (Use the "Disc at once" method that complies with ISO9660 Level 1: MS-DOS compatible)

### **NOTES:**

Be careful that the mains power supply to the unit is not interrupted during the update process otherwise the Rom data of the unit can be damaged and physical replacement of the MPU becomes in need.

### **Update Procedure**

- 1) With no disc loaded, press and hold down the SEARCH PRE (<<) and SEARCH NEXT (>>) keys and press the EJECT key so that "UPDATE IN" is displayed to show CD-ROM update mode is enabled.
- 2) Insert the firmware update disc.
- 3) With each press of the PITCH dial, the display reads "OLD Ver" "NEW Ver" "SURE" "update" and the updating starts. Upon completion of the updating "COMPLETE" is displayed.

### **Initializing Preset Menu**

- 1) Press and hold down the SHIFT key and press the PITCH dial and menu mode is enabled.
- 2) Select menu 14, "F-Pre" and press the ENTER key and the display reads "SURE".
- 3) Press the ENTER key once again and the initializing starts.

### **Check the firmware version**

With no disc loaded, press and hold down the SHIFT and DISPLAY keys and the PITCH dial then the firmware version number is read on the displayed.

## ご注意

### CD（コンパクトディスク）の取扱について

透明ディスクを使用しないでください。

本機は透明ディスクに対応しておりません。透明ディスクを使用すると、ディスクがロードできない場合や、イジェクトできない場合があります。

本機のEJECTキーを押してもディスクをイジェクトしない場合、DISPLAYキーとEJECTキーを同時に押すとディスクを取り出せることがあります。

## 追加機能

**インデックス番号01（オーディオCD）を表示/非表示にする機能が追加されました。ただし、インデックス番号02以降は表示されません。（取扱説明書10ページの表示窓、インデックス番号/ディレクトリ番号表示参照）**

インデックス番号01を非表示にするには、DISPLAYキーを2秒以上押しIndex OFFモードに切り替えます。

再表示するには、DISPLAYキーを2秒以上しIndex ONモードに切り替えます。

設定したモードは電源を切ってもバックアップされています。

## Additional function

Index number display mode is added (please refer to ④INDEX/DIR indicator on page 11, "Display" section of the Owner's Manual).

Pressing the DISPLAY key over two seconds switches Index ON and OFF mode (the default setting is ON).

When the mode is OFF, the index number 01 will not be shown on the display. However, the index number 02 and following index numbers will be displayed.

The setting remains even the power is turned OFF.



# TECHNICAL INFORMATION

## CD-01U/CD-01UPro, Change of CD Drive Assy

No. 0704

DATE 20th March 2007

The production of the original DRIVE ASSY, CD TC-S202TE (P/No.M01818500B) has been ceased and new DRIVE ASSY, CD TC-S303 (P/No.M02510800A) has been adopted on the products with the following serial number:

CD-01U/CD-01UPro: S/No. 0200001 and higher.

### **Parts required:**

Old Drive Assy	New Drive Assy
M01818500B DRIVE ASSY, CD TC-S202TE G	M02510800A DRIVE ASSY, CD TC-S303 G
M02508800A TRAVERSE, KSM-900AKI SONY G	M02510900A TRAVERSE, DA23SR SANYO G
E95192800A PCB ASSY, SERVO CDX05	E95285700A PCB ASSY, SERVO DA23SR

### Note:

This change is originated by EOL of the SONY Traverse unit and the Servo PCB Assy has to be replaced to compensate characteristics of SANYO Traverse unit for substitution.

The Drive Assy becomes interchangeable by these pair change. However the Traverse unit itself is not physically interchangeable since position of 3 mounting holes are slightly different.

And then Chassis of the Drive Assy has been created newly.

To cope with this difficulty, a large amount of the SONY Traverse unit has been stocked for spares. Check the serial number of the unit to determine which Traverse unit is required for repair.

### **Main PCB A Firmware upgrade:**

To allow the new Drive Assy to function, the firmware of the Main PCB A has been updated to V2.02. At the same time, the following problems fix has been made by the V2.02 firmware:

1. Reinforced TOC reading by adding 3 times retry with increasing sled voltage in case time out occurred that causes Error 06 on the display.
2. Improved playability for a disc that has recorded doubled address mistakenly.
3. Corrected counter jump occurred when operating PAUSE to PLAY at index00.

Visit the [ROM Data Library](#) on the SVHP to download the firmware data image.

Refer to page 5 of the CD-01U Service Manual TEST MODES for update procedure.

It is recommended to upgrade this V2.02 firmware for the units fitted with the Old Drive Assy in case the fixed problem meets to the symptom for repair.

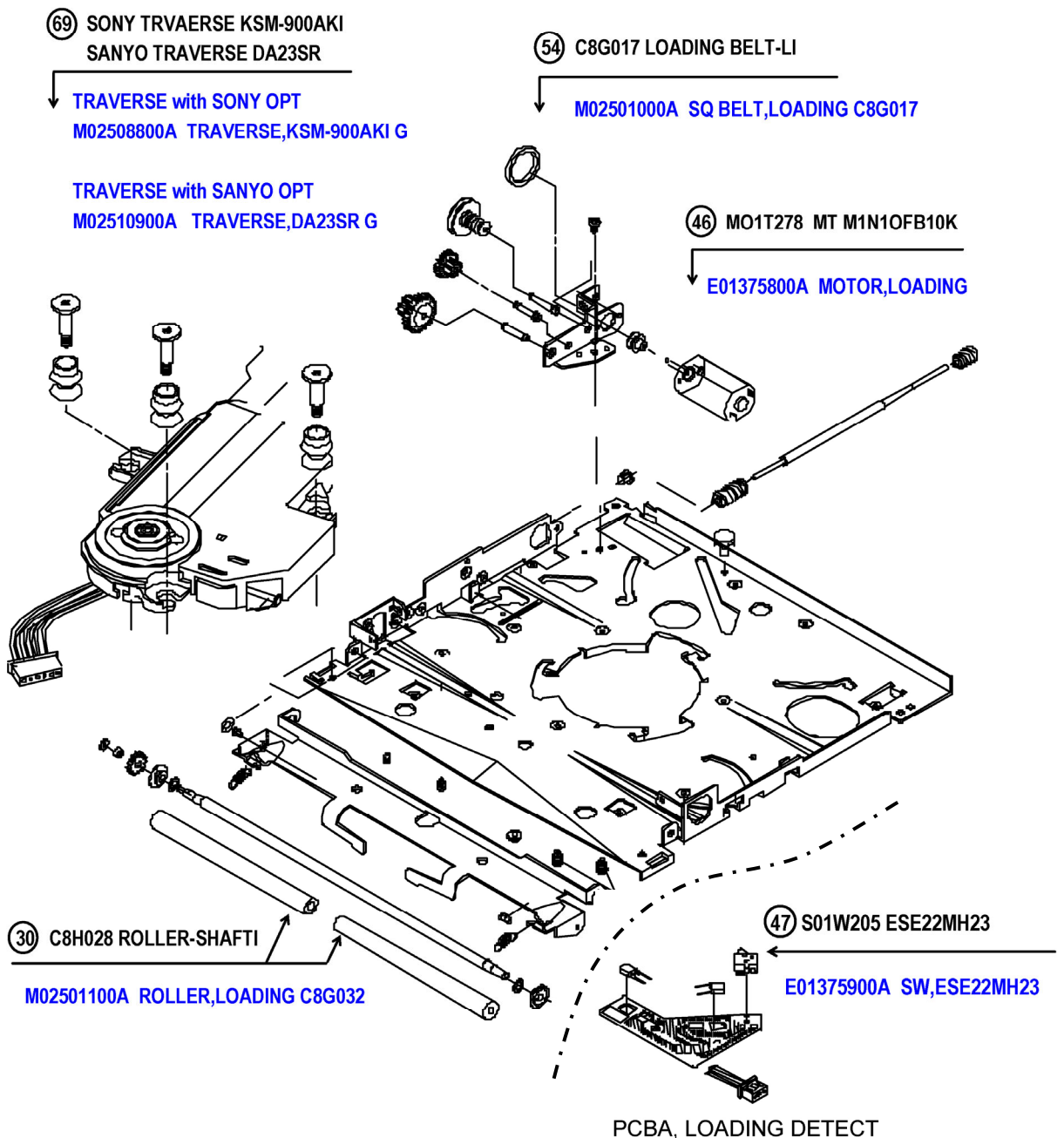
The following spares of Drive Assy are available as spare part:

M02508800A TRAVERSE, KSM-900AKI SONY G  
M02510900A TRAVERSE, DA23SR SANYO G  
M02501000A SQ BELT, LOADING C8G017  
E01375800A MOTOR, LOADING  
M02501100A ROLLER, LOADING  
E01375900A SW, ESE22MH23

**Exploded view:**

CD MECH ASSY with SONY Traverse  
M01818500B DRIVE ASSY,CD TC-S202TE G  
SERVO PCB ASSY  
E95192800A PCB ASSY,SERVO CDX05

CD MECH ASSY with SANYO Traverse  
M02510800A DRIVE ASSY,CD TC-S303 G  
SERVO PCB ASSY  
E95285700A PCB ASSY,SERVO DA23SR





## TECHNICAL INFORMATION

### TASCAM CD-01U/01Upro CD Mecha Change

No. **1041**

DATE 3rd Sep. 2010

The CD Mecha (TCS202TEB) for CD-01U/01UPro has been changed from TC-S303G for improving the Roller Base.

The new CD Mecha (TCS202TEB) for CD-01U/01UPro has been installed since S/N 0510001.

Parts Number for the new CD Mecha :

P/N: M03033400A "DRIVE ASSY, CD TCS202TEB G"

Note:

Only the Roller Base has been changed from Plastic to Metal on the new CD Mecha (TCS202TEB).

So the SERVO PCB ("PCB ASSY, SERVO DA23SR, SN:E95285700A") should be used with the new CD Mecha (TCS202TEB).

**TECHNICAL INFORMATION****TASCAM CD-01U/01Upro, Countermeasure for No Disk insertion**No. **0927**

DATE 01st Sep 2009

The countermeasure for No CD-Disk insertion on CD-01U/01Upro has been found.  
The modification for it has been applied since SN 0490001 on CD-01U and since SN 0480001 on CD-01Upro.

**Symptom:**

The CD Disk might not be inserted properly.

e.g. CD disk insertion is stopped on the way.

CD disk mechanism is very noisy and won't load disc.

It loads CD disk but won't read TOC and displays "no disc"

**Cause:**

A part of Roller Base in CD Mech BLK is broken, because some part of plastic of the Roller base is very weak (thin) and the CD disk is not inserted in proper position..

**Remedy:**

The new roller base has been reinforced with being thickened on the weak part.

Change the broken roller base to the new one.

Parts Number of the new Roller base is as follows:

P/No. M03020500A BASE, ROLLER BASE G

**Note.**

1. The weak Roller Base had been used on CD-01U from Lot 38 (SN: 038xxxx) to Lot 48 (SN:048xxxxx) and on CD-01U Pro from Lot 38 (SN: 038xxxx) to Lot 47 (SN:047xxxx).
2. The production since Lot 51 (SN 0510001) on CD-01U and CD-01U Pro has been modified with the Metal Roller Base from the Plastic one.



## TECHNICAL INFORMATION

### TASCAM CD-01U V2.06 Firmware Update

No.	0809
DATE	27th June 2008

The firmware V2.06 for CD-01U has been released with some bugs fixes from V2.04. V2.06 on the products with S/N 0360001 and higher:

**Bug fixes:**

1. Tracking Gain is increased for the countermeasure of some Disk Error.
2. 8cm Disk sometimes could not be ejected – fixed -

Visit the [ROM Data Library](#) in the TASCAM Service HP website to download firmware.