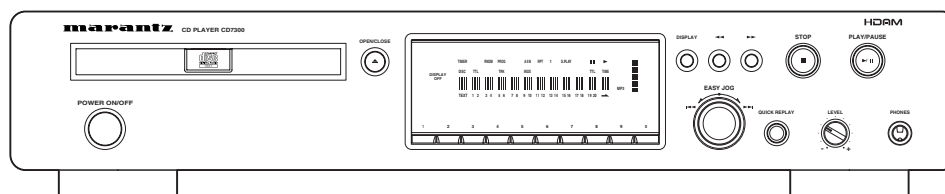


Service Manual

CD7300 /F1N/K1G/S1G/C1G
/N1G/N1B

CD7300

CD Player



HDAM

TABLE OF CONTENTS

SECTION	PAGE
1. TECHNICAL SPECIFICATIONS	1
2. SERVICE PROCEDURE	2
3. SERVICE MODE	6
4. BLOCK DIAGRAM	7
5. SCHEMATIC DIAGRAM	9
6. PARTS LOCATION	23
7. IC DATA	27
8. EXPLODED VIEW AND PARTS LIST	33
9. ELECTRICAL PARTS LIST	37

Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

CD7300

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Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

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PROFESSIONAL AUSTRALIA

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MT. WAVERLEY VIC 3149
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WANGBURAPAPIROM, PHRANAKORN,
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NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
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NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
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営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

Audio characteristics

Channels	2 channels
Frequency response	2 Hz to 20 kHz
Dynamic range	100 dB
Signal-to-noise ratio	110 dB
Channel separation	100 dB (1 kHz)
Harmonic distortion	0.0025% (1 kHz)
Wow & flutter	Precision of quartz
Error correction system	Cross-interleave Reed Solomon code (CIRC)
Audio output	2.0 V rms, stereo
Headphone output	18 mW/32 ohms (variable maximum)
Digital output	
Coaxial output (pin jack)	0.5 Vp-p, 75 ohms
Optical output (square optical connector)	-19 dBm

Optical readout system

Laser	AlGaAs semiconductor
Wavelength	780 nm

Signal system

Sampling frequency	44.1 kHz
Quantization	16-bit linear/channel

Power supply

Power requirement	AC 220V 60Hz (/C)
.....	AC 100V 50/60Hz (/F)
.....	AC 110/220V 50/60Hz (/K)
.....	AC 230V 50Hz (/N)
.....	AC 230V 50/60Hz (/S)

Power consumption	12 W
-------------------------	------

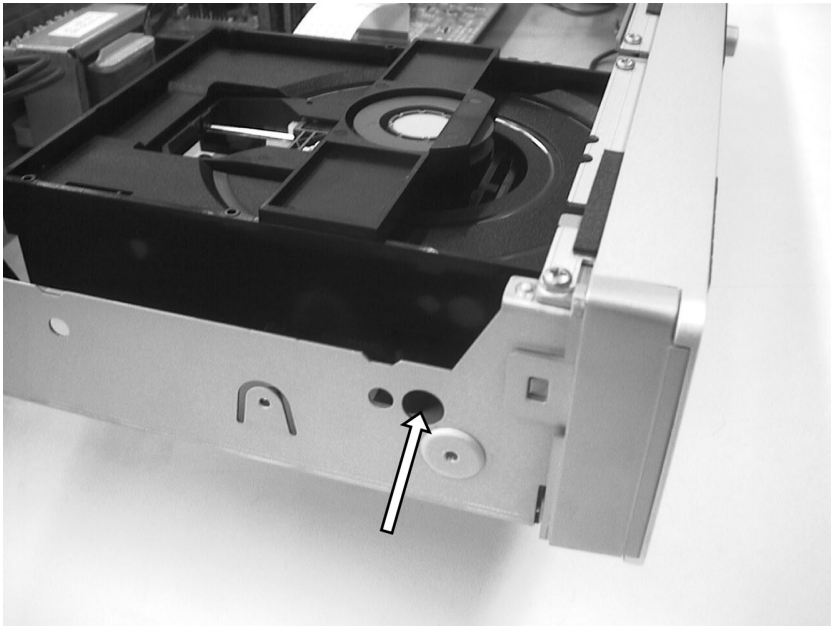
Cabinet, etc.

Maximum dimensions	440(W) x 89(H) x 317 (D) mm
Weight	5.7 kg
Allowable operating temperature	+5 to +35°C
Allowable operating humidity	5 to 90% (no condensation)

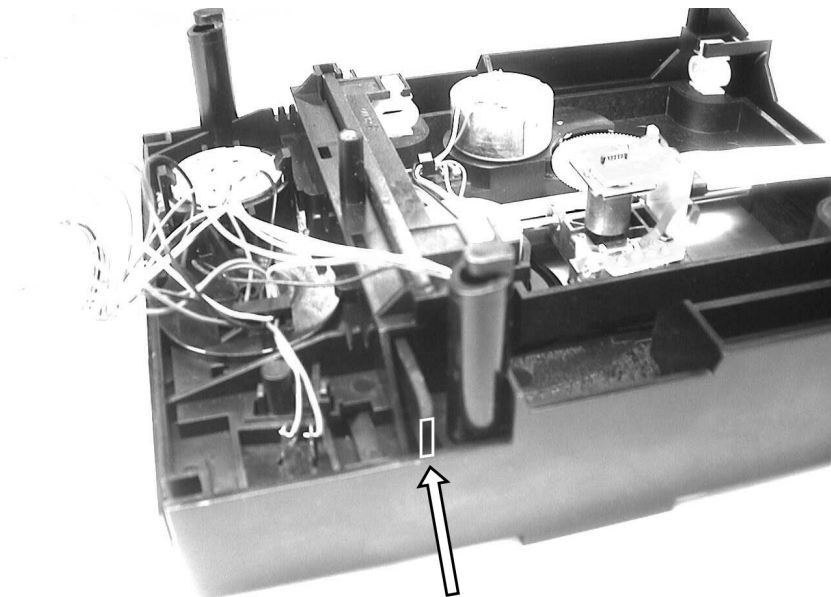
2. SERVICE PROCEDURE

Emergency Eject

1. To open the stucked tray, insert a pin into the eject pinhole and push the eject lever.
2. Use a pin $\phi 4\text{mm}$ or less.

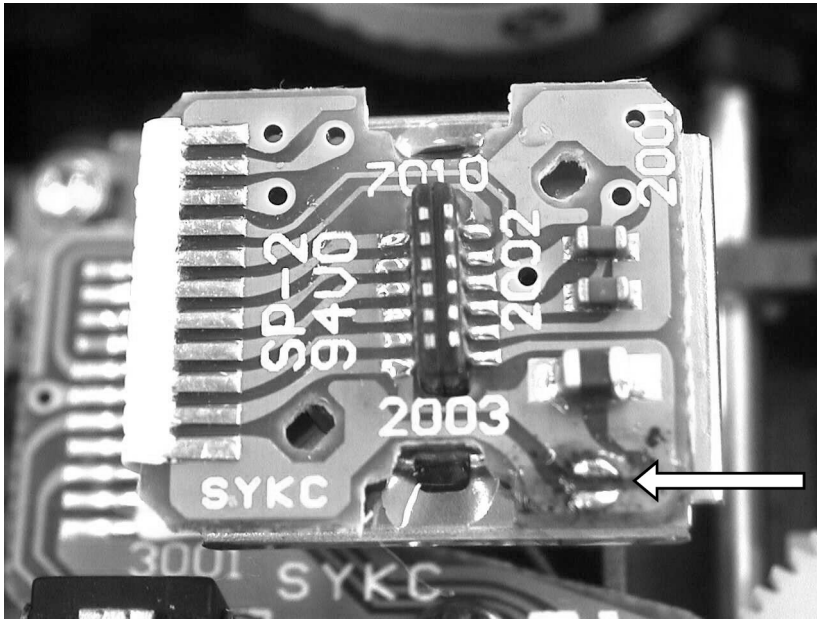


This picture shows the unit upside down. The eject lever is pointed by the arrow. The lever is thin so aim the narrow area carefully.



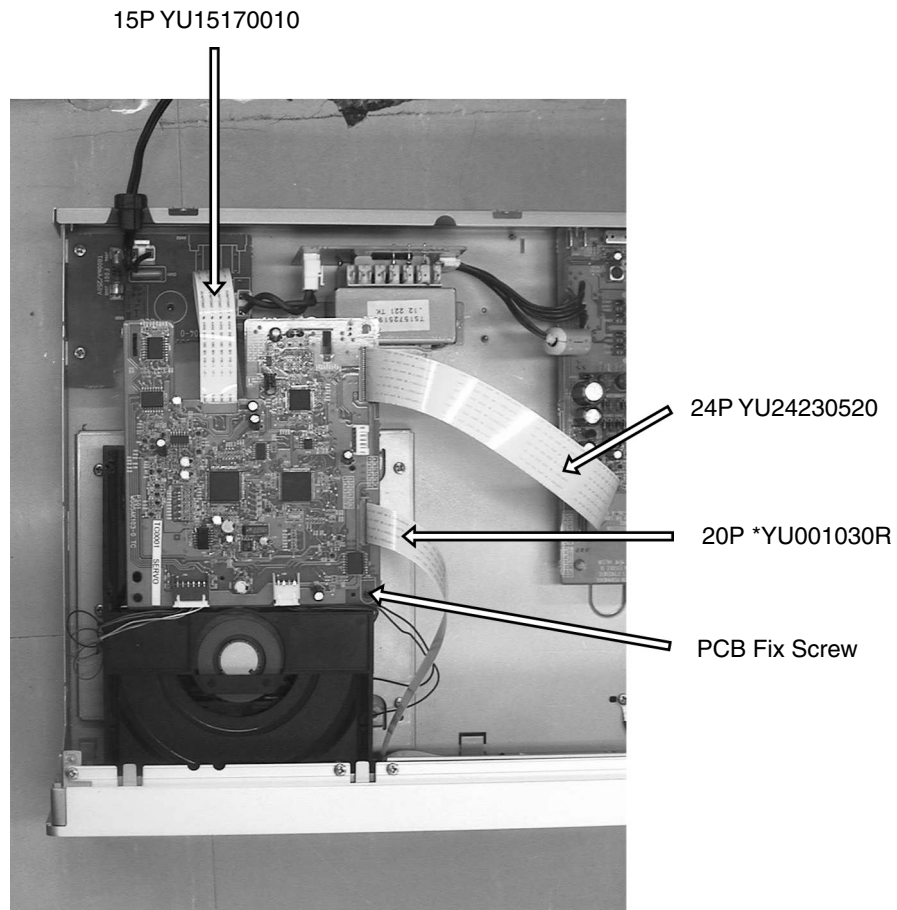
Cautions in Assembling and Disassembling

When removing the flat wire PS01, connecting the optical pick up and the CD decoder board, short-cut the two lands pointed by the arrow with solder. Otherwise the laser diode may be damaged by static electricity.



CD Decoder Board (PS01) Repair

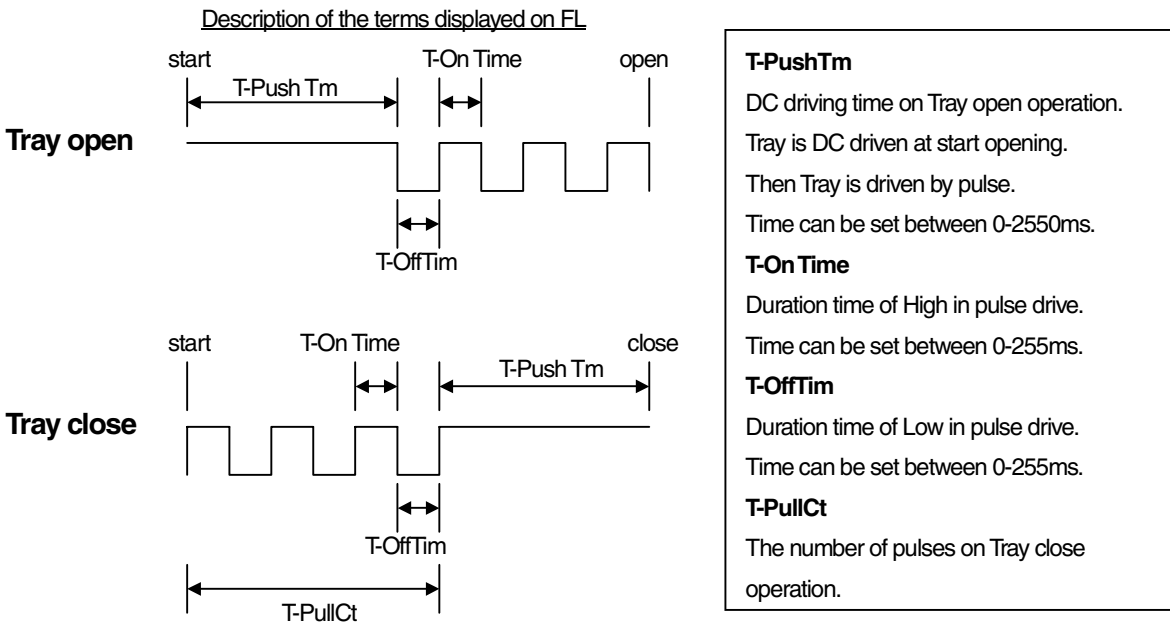
When Repairing the CD decoder board PS01, you can fix the board on the loader unit as shown in the picture below with the flat wires that are provided as service parts.



Disk Tray Open/Close Speed Adjustment

Open/Close speed of the tray can be changed.

When vibration occurs upon tray open/close and some unusual behavior happens, change the tray speed to stop vibration.



<Vibration on Disc Tray Open / Close>

Step 1. With pressing **DISPLAY** and **QUICK REPLAY** buttons, press **POWER** button.

Step 2. Press **EASY JOG** button.

“**T-OnTime 015**” (means Tray On Time 015ms default) is displayed.

Turn **EASY JOG** to change tray open/close speed from 000 to 255ms. Turn the number smaller to make the open/close speed slower. Turn the number bigger to make the speed faster. Set bigger number to stop the tray vibration. But the open/close speed becomes faster.

Press **EASY JOG** button again. The display changes as shown below so you can change other parameters for the open/close speed.

Display (Default Setting)	Description	Bigger Number	Smaller Number
T- OffTim 003	When open/close speed is too fast. Note) 001, 002, 003 cannot be set.	open/close speed becomes faster	open/close speed becomes slower
T- PushTm 070	When vibration cannot be stopped by adjusting T-OnTime .	open/close speed becomes slower	open/close speed becomes faster
T- PullCt 040	When disc clamp miss happens. Set smaller number to make it better.		

Step 3. Press **EASY JOG** button to complete adjustment.

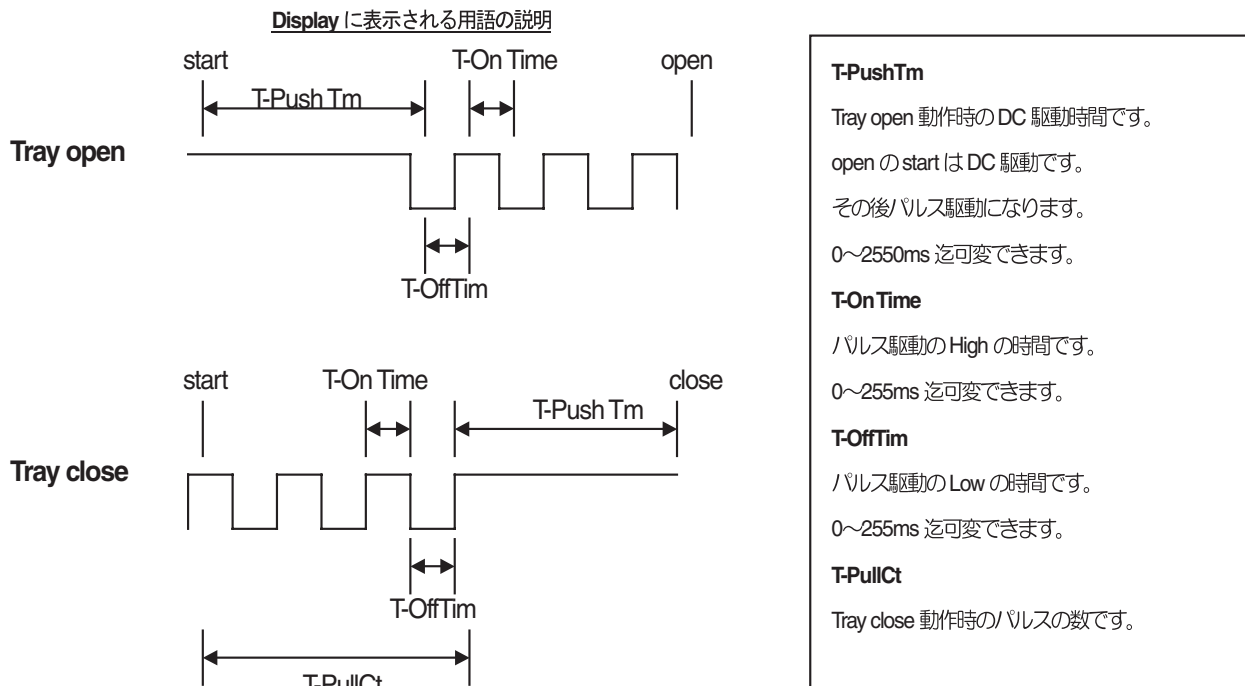
Step 4. Press **STOP** button to store the settings in memory.

To reset all the settings to default status, press number **0** button in Service Mode 0 (Display : Ver *, ** P00). When miss-operated, press number **0** button to retry.

Disc Tray の Open/Close Speed 調整方法

この調整は、Disc Tray の open/close speed を可変できます。

特に、Tray open/close にて Tray が横揺れし、不自然な動作が発生した時に open/close の speed 調整にて、Tray の横揺れが無くなります。



<Tray open/close 時の横揺れ>

- 手順 1. **DISPLAY** と **QUICK REPLAY** ボタンを押しながら **POWER** ボタンを押します。
 手順 2. **EASY JOG** ボタンを PUSH ENTER します。

Display に “ **T-OnTime 015** ” (初期設定 Tray on time 015ms の意味) と表示。

EASY JOG ボタンを押し 000 から 255ms の範囲で Tray の open/close Speed が可変できます。

数字が小さくなると open/close Speed は遅くなります。数字が大きくなると早くなります。

Tray の open/close の横揺れは数字を大きくする事により、横揺れは、無くなります。

但し、open/close speed は遅くなります。

更に **EASY JOG** ボタンを PUSH ENTER すると、押す度に下記の表示に変わり open/close speed を可変できます。

表示内容 (初期設定)	項 目	数字を小さくする	数字を大きくする
T-OffTim 003	open/close speed が速すぎる時 注) 000・001・002 は使用出来ません。	open/close speed が速くなる	open/close speed が遅くなる
T-PushTm 070	open 時の横揺れが T-OnTime で修正できない時 DC 駆動時間を増す	open/close speed が遅くなる	open/close speed が速くなる
T-PullCt 040	クランプミスの時、数字を小さくするとクランプミスが改善されます。		

手順 3. **EASY JOG** ボタンの PUSH ENTER で設定が決定します。

手順 4. **STOP** ボタンを押します。(メモリーされます)

初期設定に戻すときは、サービスモード 0 (表示は Ver: *, ** P00) の時、数字ボタン 0 のボタンを押します。

(操作を間違えた時も 0 のボタンを押して操作をやり直します)

3. SERVICE MODE

1. Turning into Service Mode

While pressing **DISPLAY** and **QUICK REPLAY** buttons, press **POWER** button.

2. Mode0 (Display : Ver : *.***P00 Version number of the micro computer is displayed)

Status: [FOCUS OFF] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- While pressing **▶▶** and **◀◀** buttons, the sledge moves toward the outer edge. Release the button makes the sledge return to the origin.

Press **EASY JOG** or **NEXT ▶▶** button on the remote to go to Mode 1.

3. Mode 1 (Display : Ver : *.***P01)

Status: [FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- Press **NEXT ▶▶** button to go to Mode 2.
- Press **PREV ◀◀** button to go to Mode 0.

4. Mode 2 (Display : Ver : *.***P02)

Status: [FOCUS ON] [SPINDLE ON] [RADIAL OFF] [MUTE ON]

- Press **NEXT ▶▶** button to go to Mode 3.
- Press **PREV ◀◀** button to go to Mode 1.

5. Mode 3 (Display : Ver : *.***P03)

Status: [FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]

- Press **PREV ◀◀** button to go to Mode 1.

* In this Service Mode, all of the following button functions work in any status.

- 1) Press **DISPLAY** button to light up all the FL segments. Press it again then each FL segment lights up one by one.
- 2) Press **STOP** button. Then press a button on the unit. The name of the button is displayed. Pressing a button on the remote displays the RC-5 code of the button.
- 3) Press **PLAY** button in Mode 1, 2 or 3 then normal operation can be performed. If an error occurs the error number is displayed. (Ex : Err 10) See the table below.

6. Terminating Service Mode

Turn off power to quit Service Mode.

3. サービスモード

1. サービスモードへの入り方

DISPLAYと**QUICK REPLAY** ボタンを押しながら**POWER**ボタンを押します。

2. モード0 (表示 Ver : *.*** P00 マイコンの Ver. が表示されます)

状態 : [FOCUS OFF] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- **▶▶**、**◀◀** ボタンを押している間だけスレッドが外周へ移動します。ボタンを放すと原点に戻ります。

EASY JOGまたはリモコンの**NEXT ▶▶** ボタンを押すとモード1へ移行します。

3. モード1 (表示 Ver : *.*** P01)

状態 : [FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- **NEXT ▶▶** ボタンを押すとモード2へ移行します。
- **PREV ◀◀** ボタンを押すとモード0へ移行します。

4. モード2 (表示 Ver : *.*** P02)

状態 : [FOCUS ON] [SPINDLE ON] [RADIAL OFF] [MUTE ON]

- **NEXT ▶▶** ボタンを押すとモード3へ移行します。
- **PREV ◀◀** ボタンを押すとモード1へ移行します。

5. モード3 (表示 Ver : *.*** P03)

状態 : [FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]

- **PREV ◀◀** ボタンを押すとモード2へ移行します。

* サービスモードの全ての状態で以下のボタンが有効です。

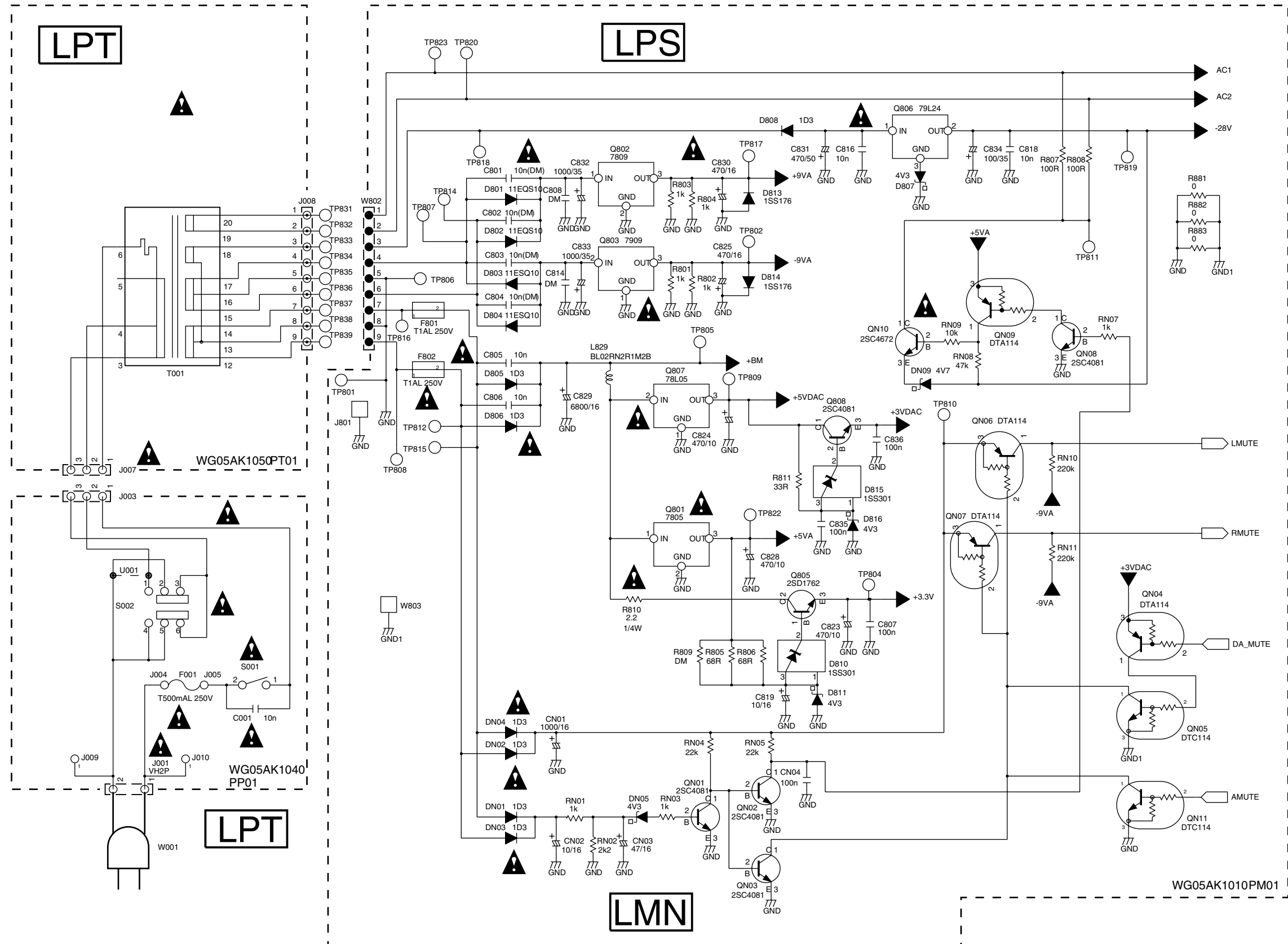
- 1) **DISPLAY** ボタンを押すとFLが全点灯します。もう一度押すと各セグメントが順次点灯します。
- 2) **STOP** ボタンを押し、更に本体のボタンを押すとボタンの名前が表示されます。リモコンのボタンを押すとRC-5コードが表示されます。
- 3) モード1. 2. 3の状態では**PLAY** ボタンを押すと通常と同じ動作となります。ただし、動作中、異常が確認された時にエラー番号が表示されます。(例 : Err 10) 下記の表を参考にしてください。

6. サービスモードの解除

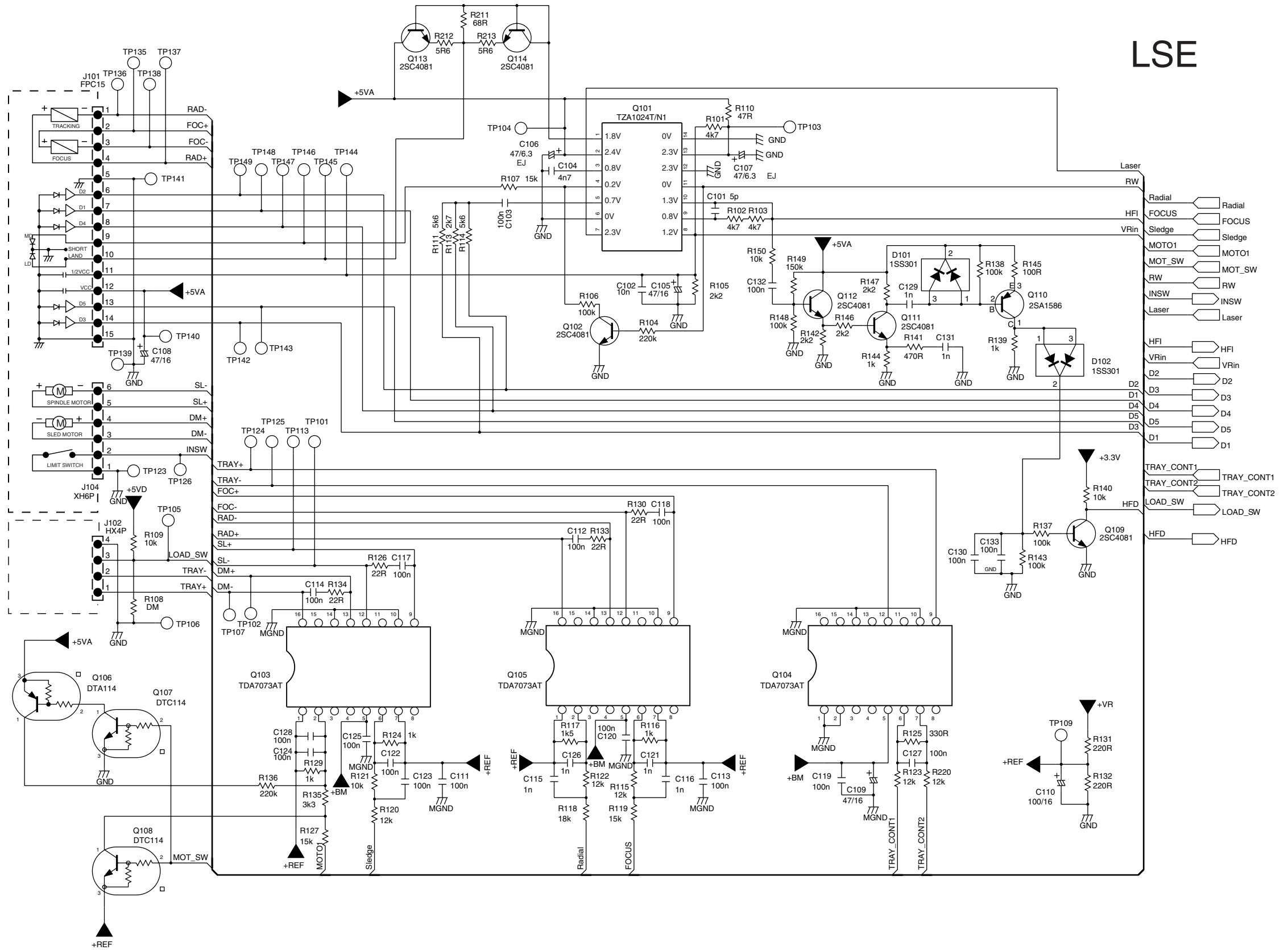
電源を切るとサービスモードが解除されます。

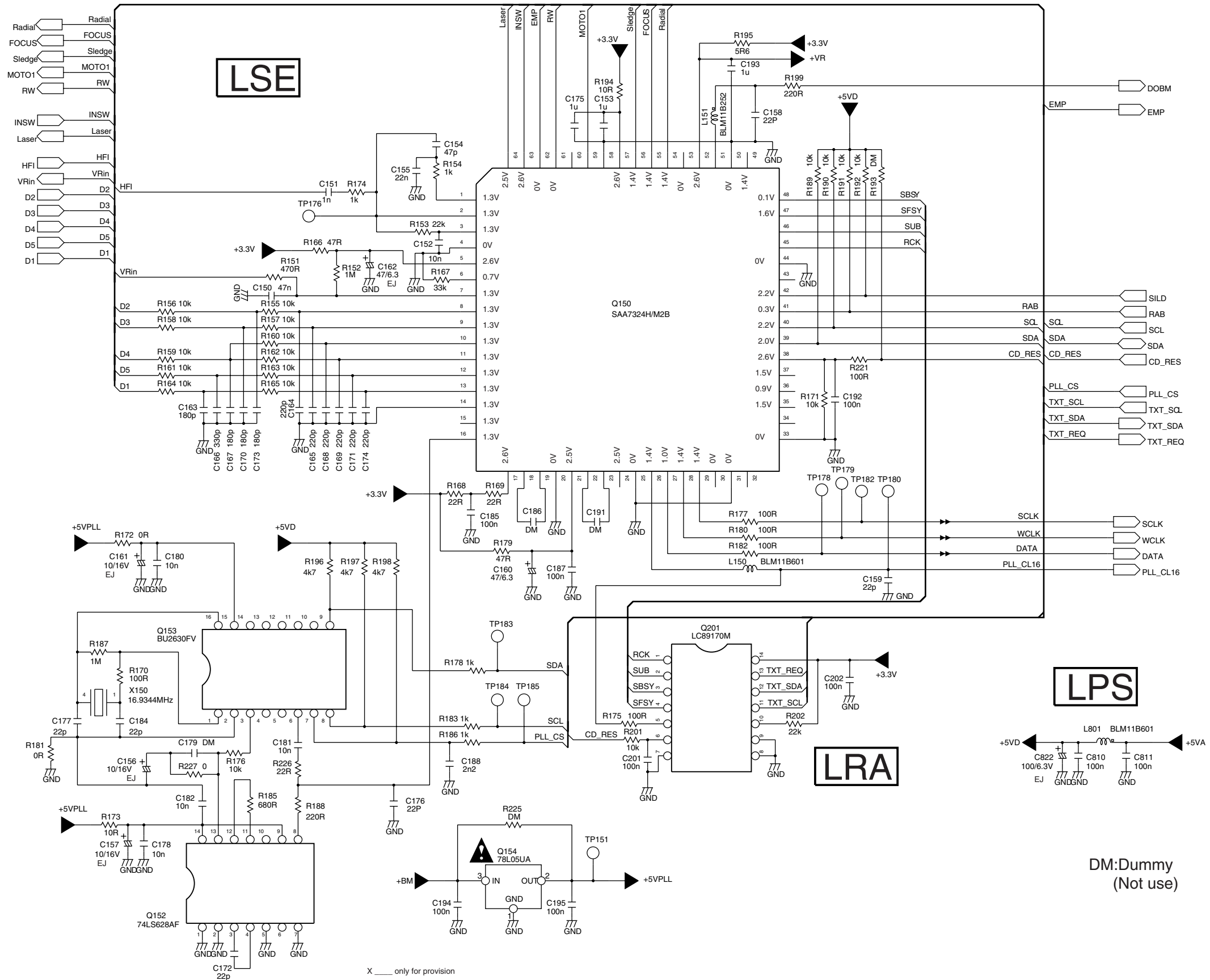
Error Code	Error
Err 02	FOCUS Error
Err 07	SUB CODE Error
Err 08	T. O. C. Error
Err 09	DECODER Error
Err 10	RADIAL Error
Err 11, 12	SLEDGE Error
Err 13	SPINDLE Error
Err 16 ~ 20	SEARCH Error
Err 30	DOOR Error
Err 31	TRAY Error
Err 32 ~ 47	BUTTON INPUT Error

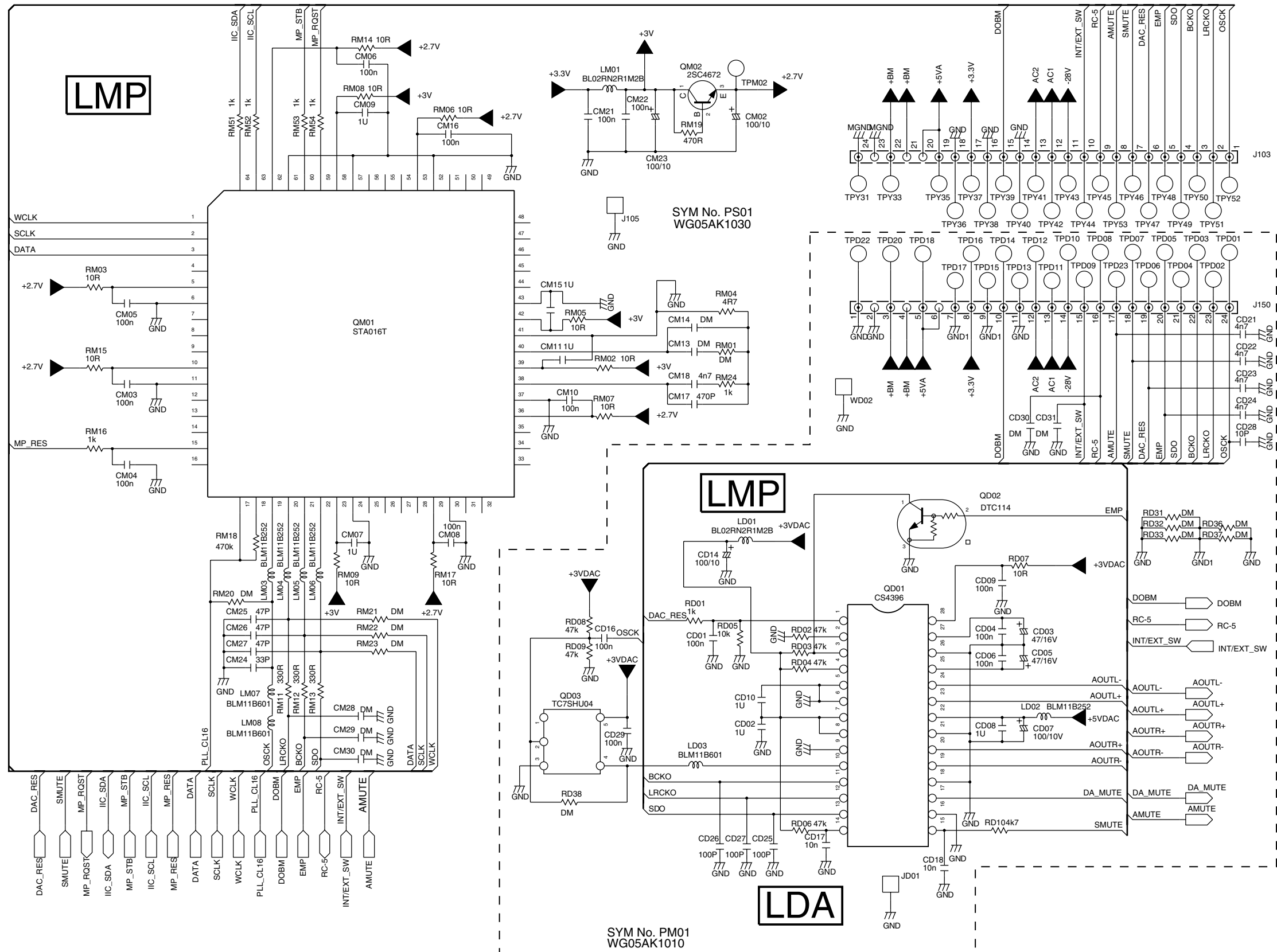
5. SCHEMATIC DIAGRAM

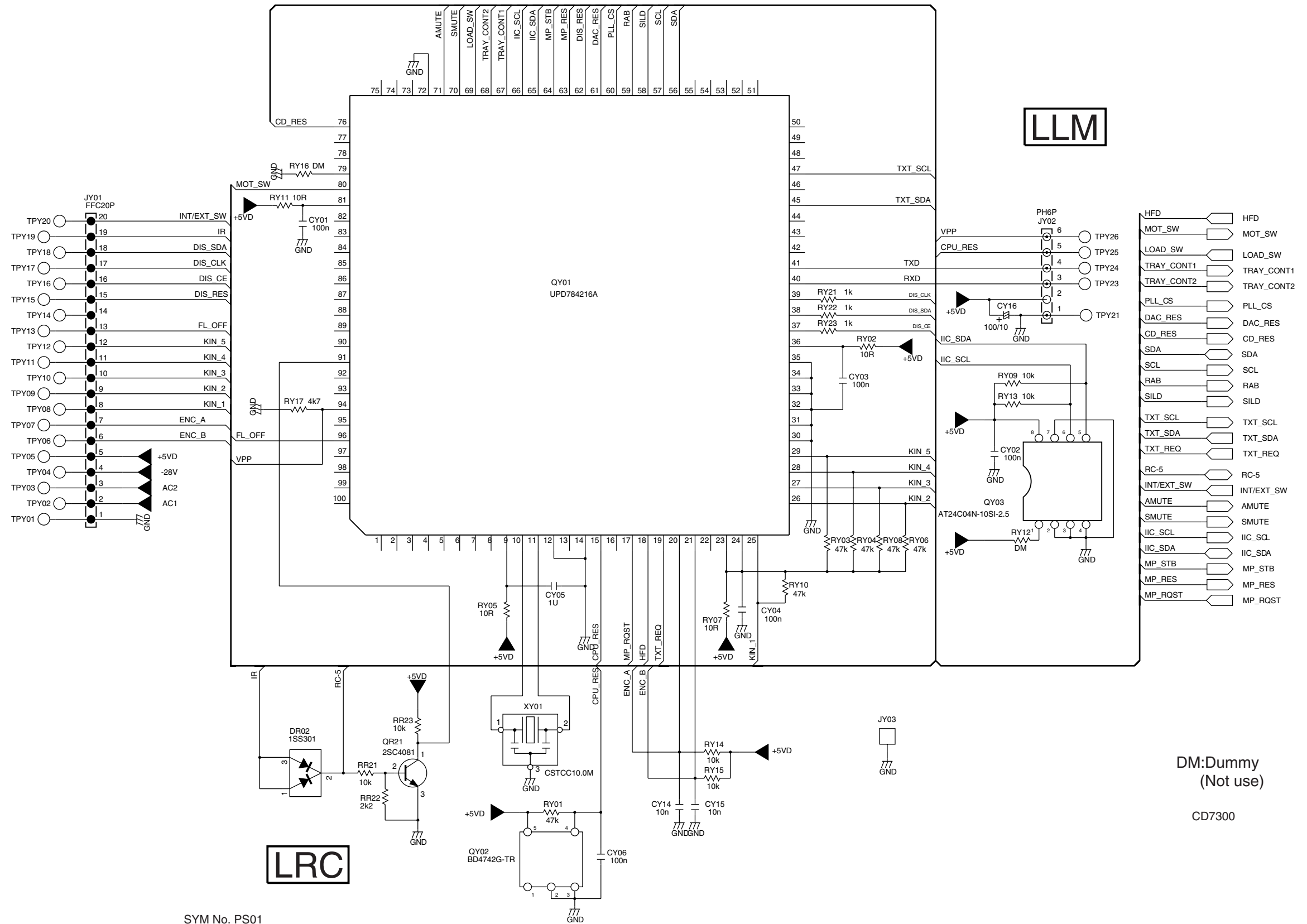


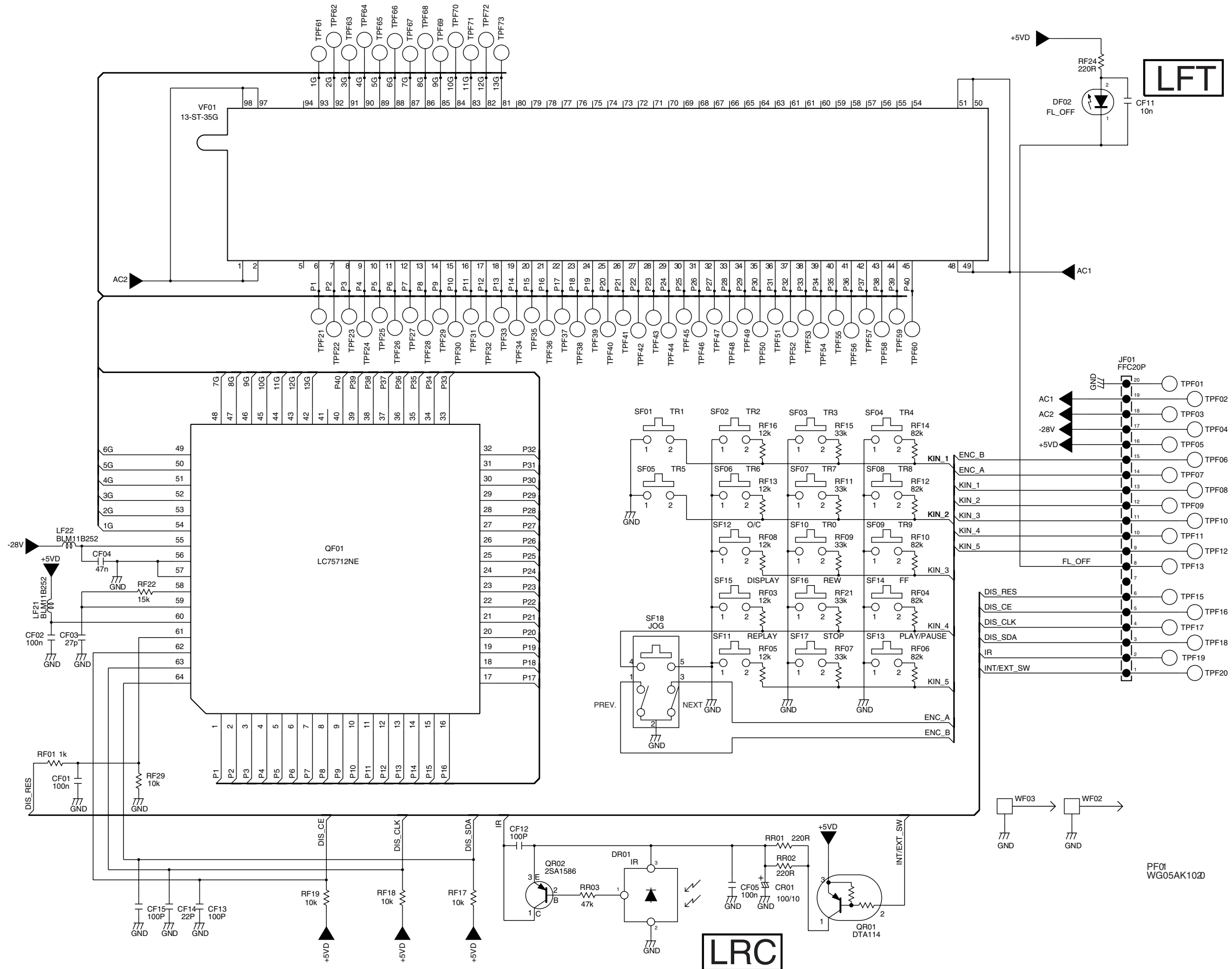
LSE







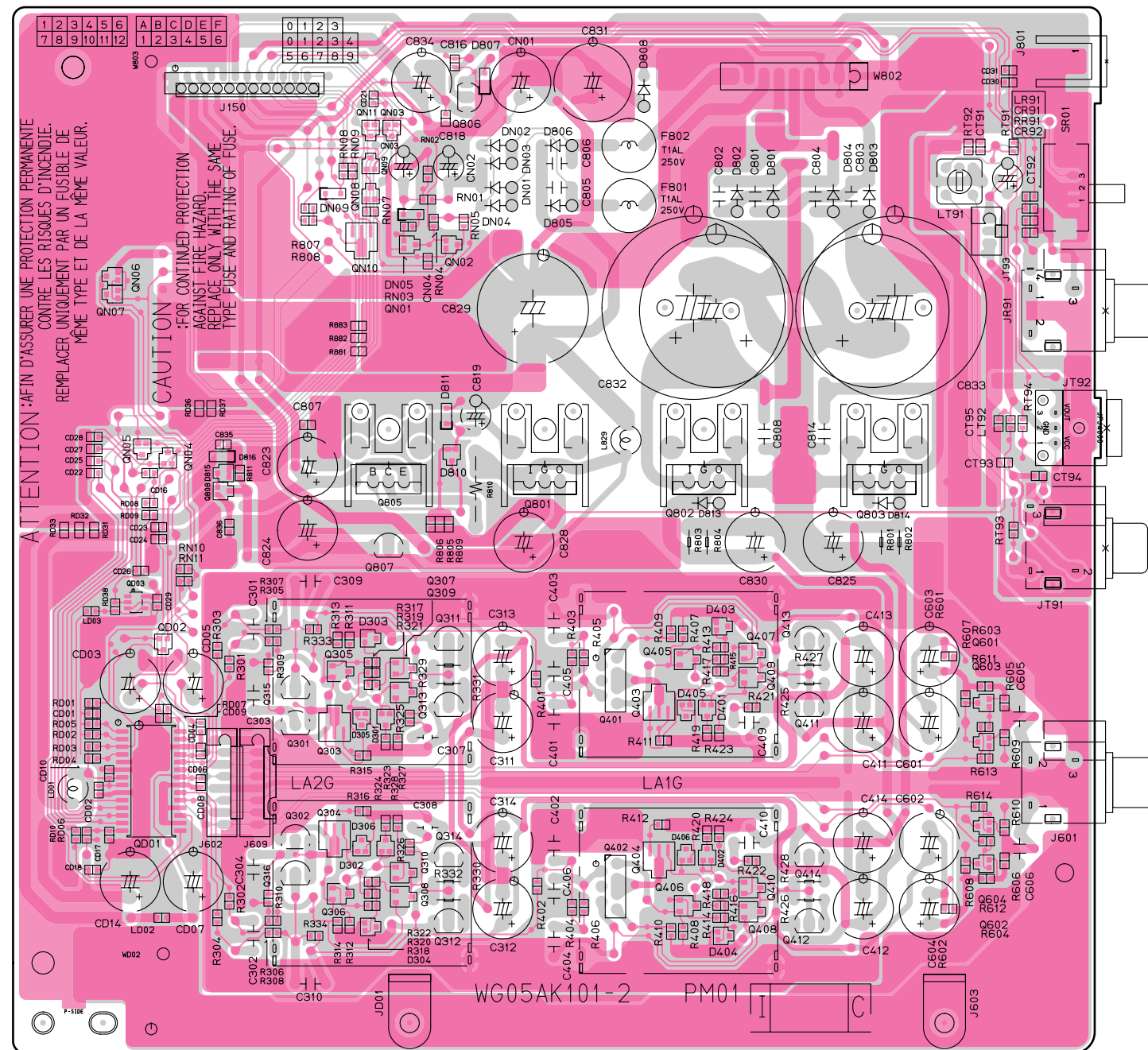




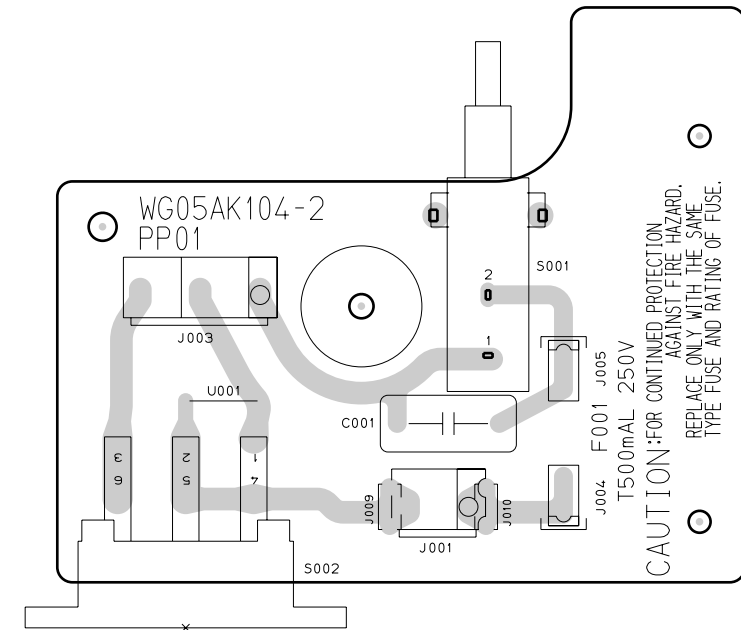
6. PARTS LOCATION

PM01

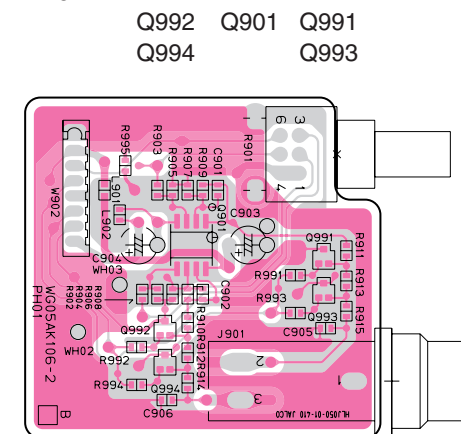
QN06	QN07	DN09	QN08-QN11	DN01-DN04	D806	D808	D801-D804
QN05	QN04	D816	DN05	QN01	Q802	D813	Q803
Q808	D815	Q807	Q805	D810	Q801	D814	Q803
QD03	D301-D305(Odd)		D401-D405(Odd)		Q427	Q603	
QD02	Q301-Q315(Odd)		Q401-Q409(Odd)		Q411	Q613	
QD01	D302-D306(Even)		D402-D406(Even)		Q414	Q604	
	Q302-Q316(Even)		Q402-Q410(Even)		Q412	Q602	



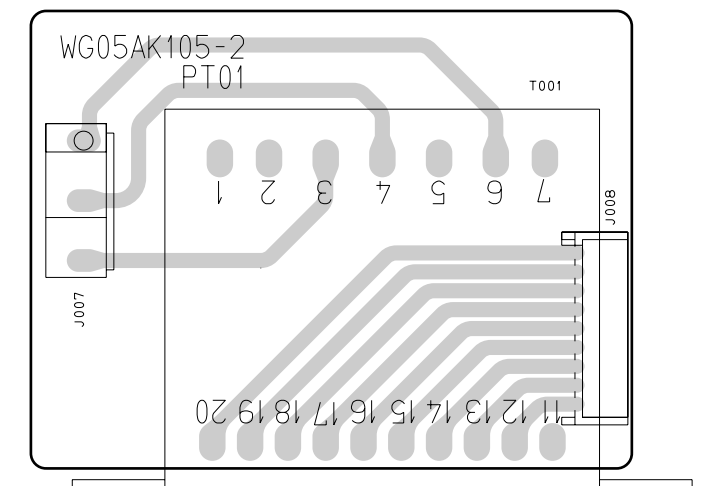
PP01



PH01

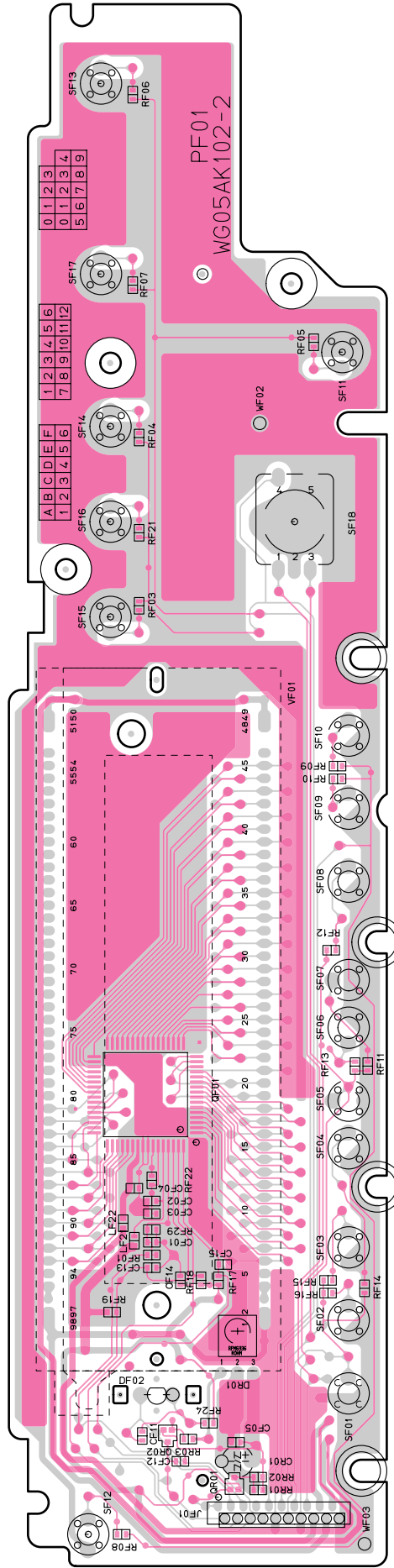


PT01



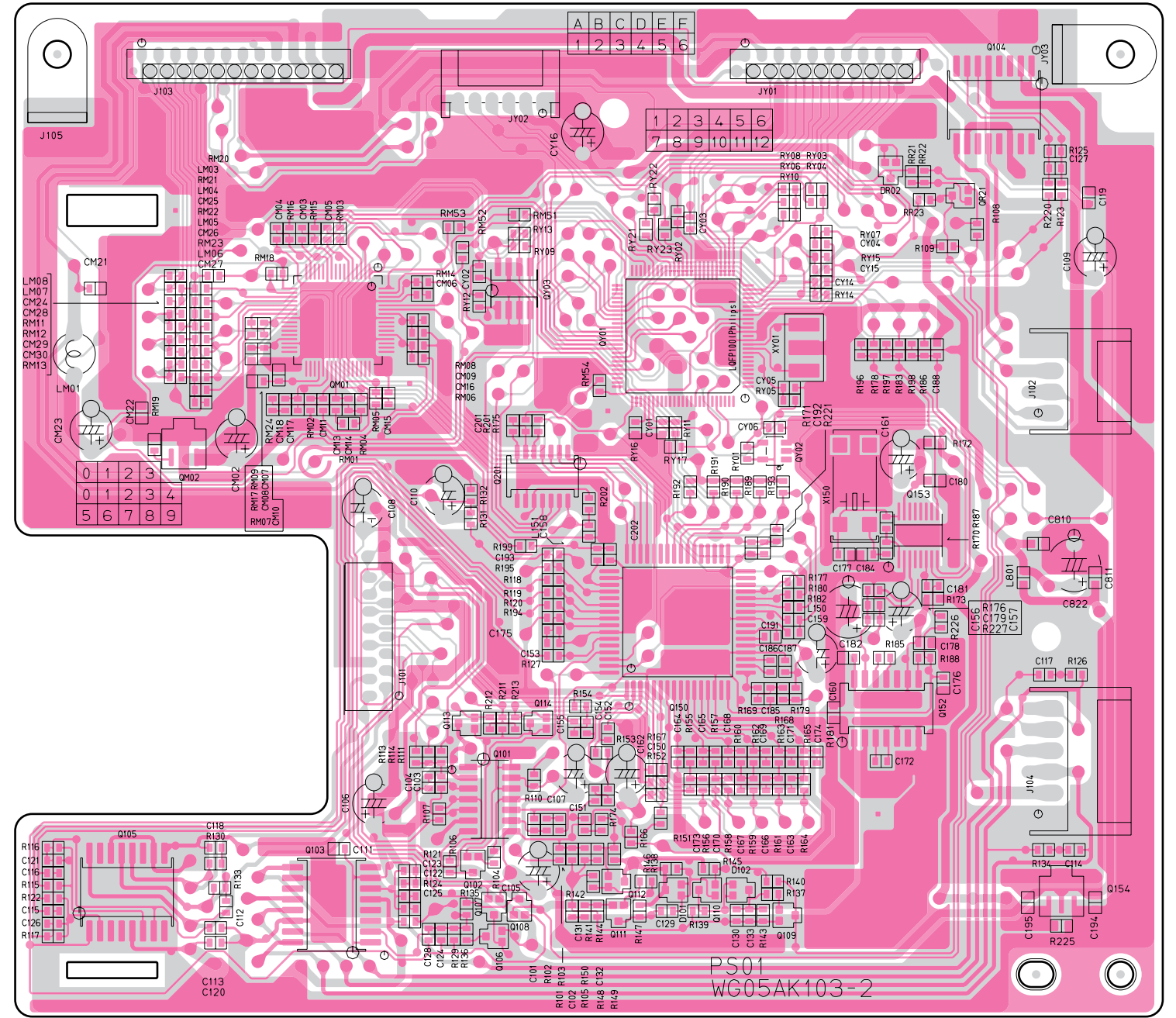
PF01

QR02 DF02
QR01 DR01



PS01

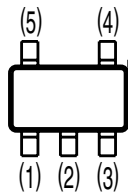
Q105 QM02 QM01 QY03 Q201 QY01 QY02 DR02 QR21 Q104
 Q103 Q113 Q101 Q114 Q150 Q152 Q153
 Q106-108 Q112 D101 Q110 D102 Q109
 Q154



7. IC DATA

QY02:BD4742G

Pin Assignment



1pin : N.C.
 2pin : SUB
 3pin : GND
 4pin : Vout
 5pin : Vcc

Q153:BU2630FV

Pin descriptions

Pin No.	Pin name	Name	Function	I/O circuit
16	XOUT	Crystal resonator	For reference frequency	TYPE A
1	XIN			
2	V _{ss}			
3	RPD	Phase comparator output	This is LO if the locally divided value is higher than the reference frequency, HI if it is lower, and Z if it matches.	TYPE E
4	P-R	Output port	This is controlled by the input data.	TYPE D
5	RON			
6	F-R	VCO input	Local input for reception	TYPE F
7	CE	Chip enable clock signal serial data	When CE is HIGH, the DA synchronized to the rise of CK is read into the internal shift register, and is latched at the timing of the CE fall.	TYPE B
8	CK			
9	DA			
10	LD	Unlock output	This goes ON when the PLL is unlocked on the transmission side	TYPE D
11	F-T	VCO input	Local input for transmission	TYPE F
12	TON	Output port	This is controlled by the input data	TYPE D
13	P-T			
14	TPD	Phase comparator output	This is LO if the locally divided value is higher than the reference frequency, HI if it is lower, and Z if it matches.	TYPE E
15	V _{DD}	Power supply	2.5~5.5V	

QD01:CS4396

Pin Description

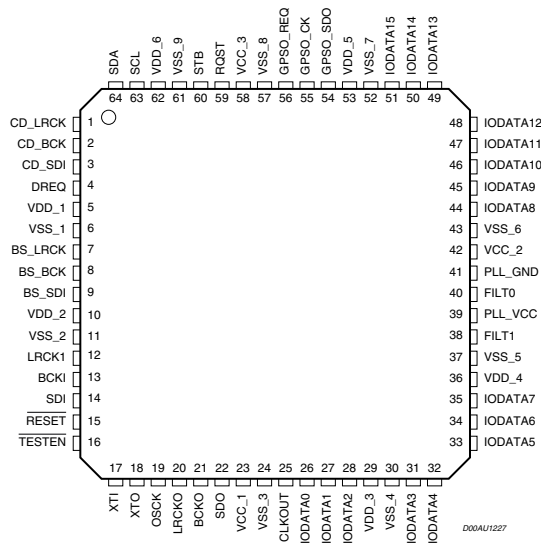
Reset	RST	1	28	VREF	Voltage Reference
See Description	M4(AD0/CS)	2	27	FILT+	Reference Filter
See Description	M3(AD1/CDIN)	3	26	FILT-	Reference Ground
See Description	M2(SCL/CCLK)	4	25	CMOUT	Common ModeS Voltage
See Description	M0(SDA/CDOUT)	5	24	AOU_{TL}-	Differential Output
Digital Ground	DGND	6	23	AOU_{TL}+	Differential Output
Digital Power	VD	7	22	VA	Analog Power
Digital Power	VD	8	21	AGND	Analog Ground
Digital Ground	DGND	9	20	AOU_{TR}+	Differential Output
Master Clock	MCLK	10	19	AOU_{TR}-	Differential Output
Serial Clock	SCLK	11	18	AGND	Analog Ground
Left/Right Clock	LRCK	12	17	MUTE_C	Mute Control
Serial Data	SDATA	13	16	C/H	Control port/Hardware select
See Description	M1	14	15	MUTE	Soft Mute

Pin Description

PIN	Pin Name	Type	Description	Sourde/Dest
CDDSP interface				
1	CD_LRCK	I	DSP Interface left/right Clock	From DSP
3	CD_SDI	I	DSP interface serial data	From DSP
2	CD_BCK	I	DSP interface bit clock	From DSP
SDI interface				
9	BS_SDI	I	Bitstream interface serial data	From MCU
7	BS_LRCK	I	Bitstream interface left/right Clock	From MCU
8	BS_BCK	I	Bitstream interface clock	From MCU
4	DREQ	O	Bitstream data request	To MCU
PCM IN interface				
13	BCKI	I	ADC bit clock	From ADC
14	SDI	I	ADC serial data	From ADC
12	LRCKI	I	ADC left/right Clock	From ADC
PCM OUT interface				
20	LRCKO	O	DAC Interface left/right Clock	To DAC
22	SDO	O	DAC serial data	To DAC
21	BCKO	O	DAC bit clock	To DAC
19	OSCK	O	DAC oversampling clock	To DAC/ADC
GPSO interface				
55	GPSO_CK	I	GPSO bit clock	From MCU
54	GPSO_SDO	O	GPSO serial data	To MCU
56	GPSO_REQ	O	GPSO request signal	To MCU
GPIO interface				
26	IODATA0	I/O	GPIODATA0	
27	IODATA1	I/O	GPIODATA1	
28	IODATA2	I/O	GPIODATA2	
31	IODATA3	I/O	GPIODATA3	
32	IODATA4	I/O	GPIODATA4	
33	IODATA5	I/O	GPIODATA5	
34	IODATA6	I/O	GPIODATA6	
35	IODATA7	I/O	GPIODATA7	
44	IODATA8	I/O	GPIODATA8	
45	IODATA9	I/O	GPIODATA9	
46	IODATA10	I/O	GPIODATA10	
47	IODATA11	I/O	GPIODATA11	
48	IODATA12	I/O	GPIODATA12	
49	IODATA13	I/O	GPIODATA13	
50	IODATA14	I/O	GPIODATA14	
51	IODATA15	I/O	GPIODATA15	

PIN	Pin Name	Type	Description	Sourde/Dest
HANDSHAKE SIGNALS				
60	STB	I	Strobe signal	From MCU
59	RQST	O	I2C data signal	To MCU
I²C LINK				
63	SCL	I	I2C clock signal	From MCU
64	SDA	I/O	I2C data signal	To MCU
MISCELLANEOUS				
17	XTI	I	Oscillator input	
18	XTO	O	Oscillator output	
25	CLKOUT	O	Buffered output clock	
15	-RESET	I	Reset	
16	-TESTEN	I	Reserved for test purpose	
40	FILT0	I	PLL external filter	
38	FILT1		PLL external filter	
POWER SUPPLY				
39	PLL_VCC			
41	PLL_GND			
5	VDD_1		Digital supply (2.5V Power Supply)	
10	VDD_2		Digital supply (2.5V Power Supply)	
29	VDD_3		Digital supply (2.5V Power Supply)	
36	VDD_4		Digital supply (2.5V Power Supply)	
53	VDD_5		Digital supply (2.5V Power Supply)	
62	VDD_6		Digital supply (2.5V Power Supply)	
23	VCC_1		Digital supply (3.3V Power Supply)	
42	VCC_2		Digital supply (3.3V Power Supply)	
58	VCC_3		Digital supply (3.3V Power Supply)	
6	VSS_1			
11	VSS_2			
24	VSS_3			
30	VSS_4			
37	VSS_5			
43	VSS_6			
52	VSS_7			
57	VSS_8			
61	VSS_9			

Pin Assignment



Pin Description

SYMBOL	PIN	DESCRIPTION
HFREF	1	comparator common mode input
HFIN	2	comparator signal input
ISLICE	3	current feedback output from data slicer
V _{SSA1}	4 ⁽¹⁾	analog ground 1
V _{DDA1}	5 ⁽¹⁾	analog supply voltage 1
I _{ref}	6	reference current output pin
V _{RIN}	7	reference voltage for servo ADC's
D1	8	unipolar current input (central diode signal input)
D2	9	unipolar current input (central diode signal input)
D3	10	unipolar current input (central diode signal input)
D4	11	unipolar current input (central diode signal input)
R1	12	unipolar current input (satellite diode signal input)
R2	13	unipolar current input (satellite diode signal input)
V _{SSA2}	14 ⁽¹⁾	analog ground 2
CROUT	15	crystal/resonator output
CRIN	16	crystal/resonator input
V _{DDA2}	17 ⁽¹⁾	analog supply voltage 2
LN	18	DAC left channel differential output - negative
LP	19	DAC left channel differential output - positive
V _{neg}	20 ⁽¹⁾	DAC negative reference supply (equivalent to DAC V _{SS})
V _{pos}	21 ⁽¹⁾	DAC positive reference supply (equivalent to DAC V _{DD})
RN	22	DAC right channel differential output - negative
RP	23	DAC right channel differential output - positive
SELPLL	24	selects whether internal clock multiplier PLL is used
TEST1	25	test control input 1; this pin should be tied LOW
CL16	26	16.9344 MHz system clock output
DATA	27	serial data output (3-state)
WCLK	28	word clock output (3-state)
SCLK	29	serial bit clock output (3-state)
EF	30	C2 error flag output (3-state)
TEST2	31	test control input 2; this pin should be tied LOW
KILL	32	kill output (programmable; open-drain)
V _{SSD1}	33 ⁽¹⁾	digital ground 2
V2/V3	34	versatile I/O: input versatile pin 2 or output versatile pin 3 (open-drain)
WCLI	35	word clock input (for data loopback to DAC)
SDI	36	serial data input (for data loopback to DAC)
SCLI	37	serial bit clock input (for data loopback to DAC)
RESET	38	power-on reset input (active LOW)
SDA	39	microcontroller interface data I/O line (open-drain output)
SCL	40	microcontroller interface clock line input
RAB	41	microcontroller interface R \bar{W} and load control line input (4-wire bus mode)
SILD	42	microcontroller interface $\bar{R}W$ and load control line input (4-wire bus mode)
STATUS	43	servo interrupt request line/decoder status register output (open-drain)
TEST3	44	test control input 3; this pin should be tied LOW
RCK	45	subcode clock input
SUB	46	P-to-W subcode bits output (3-state)
SFSY	47	subcode frame sync output (3-state)
SBSY	48	subcode block sync output (3-state)
CL11/4	49	11.2896 MHz or 4.2336 MHz (for microcontroller) clock output
V _{SSD2}	50 ⁽¹⁾	digital ground 3
DOBM	51	bi-phase mark output (externally buffered; 3-state)
V _{DD1(P)}	52 ⁽¹⁾	digital supply voltage 2 for periphery
CFLG	53	correction flag output (open-drain)
RA	54	radial actuator output
FO	55	focus actuator output
SL	56	sledge control output
V _{DD2(C)}	57 ⁽¹⁾	digital supply voltage 3 for core
V _{SSD3}	58 ⁽¹⁾	digital ground 4
MOTO1	59	motor output 1; versatile (3-state)
MOTO2	60	motor output 2; versatile (3-state)
V4	61	versatile output pin 4
V5	62	versatile output pin 5
V1	63	versatile input pin 1
LDON	64	laser drive on output (open-drain)

Note

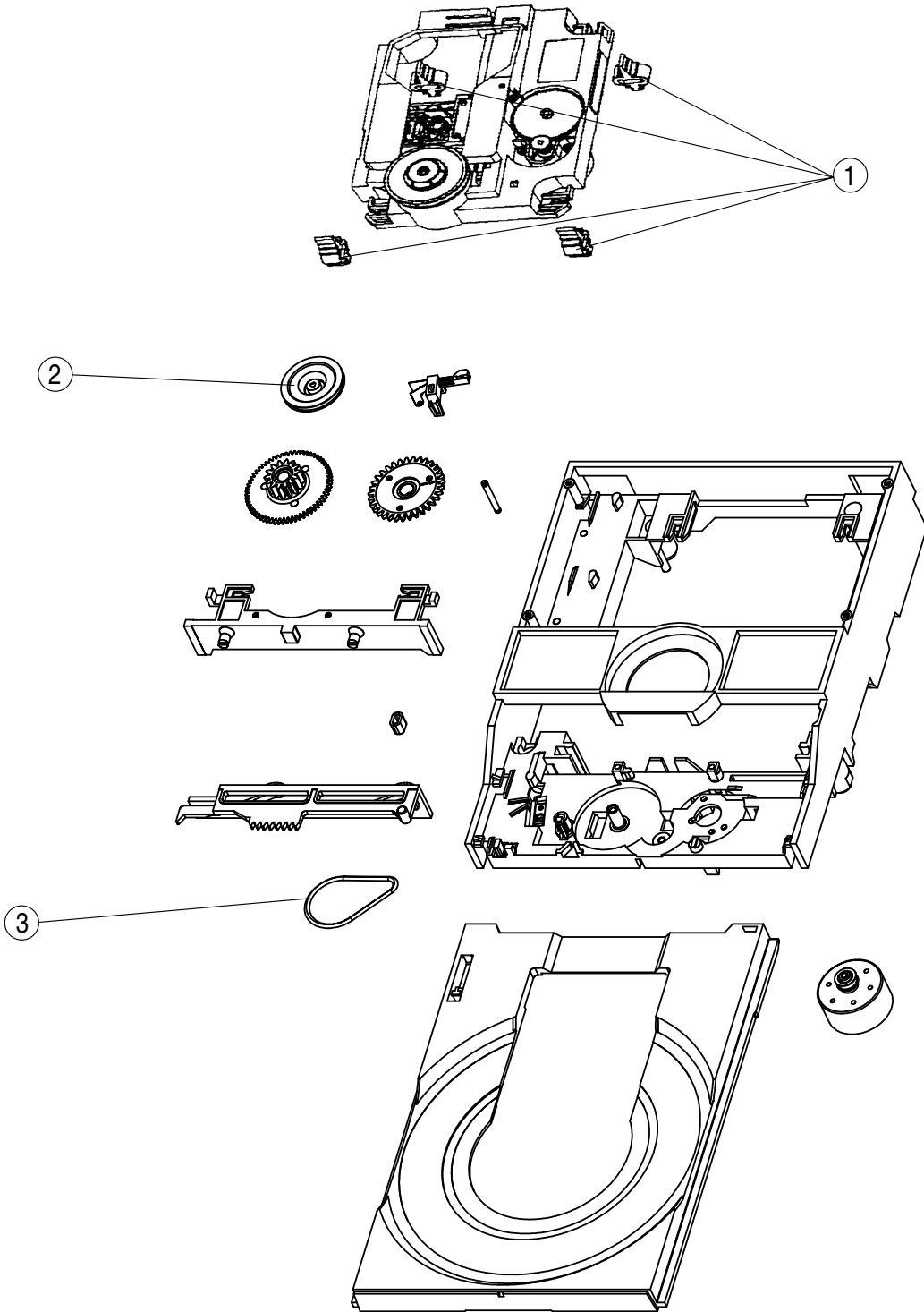
1. All supply pins must be connected to the same external power supply voltage

Pin No.	Port Name	I/O	Signal Name	Pull up	Initial	Remarks
1	P120/RTP0	O	n.c.		L	n.c.
2	P121/RTP1	O	n.c.		L	n.c.
3	P122/RTP2	O	n.c.		L	n.c.
4	P123/RTP3	O	n.c.		L	n.c.
5	P124/RTP4	O	n.c.		L	n.c.
6	P125/RTP5	O	n.c.		L	n.c.
7	P126/RTP6	O	n.c.		L	n.c.
8	P127/RTP7	O	n.c.		L	n.c.
9	VDD		+3.3V			Power +3.3V
10	X2	I	5MHz			Main system clock 5MHz
11	X1	I	5MHz			Main system clock 5MHz
12	VSS		GND			GND
13	XT2		n.c.			n.c.
14	XT1		GND			GND
15	/RESET	I	CPU_RES			Reset active low
16	P00/INTP0	I	IR	int.		RC-5 signal in
17	P01/INTP1	I	MP_RQST	int.		from STA016T
18	P02/INTP2/NMI	I	HFD	int.		from HF Detector
19	P03/INTP3	I	TXT_REQ	int.		from LC89170M
20	P04/INTP4	I	ENC_A	int.		Rotary Encoder A signal(C.W)
21	P05/INTP5	I	ENC_B	int.		Rotary Encoder B signal(C.C.W)
22	P06/INTP6	I	n.c.	int.		
23	AVDD		+3.3V			Power +3.3V
24	AVREF0		+3.3V			A/D reference
25	P10/ANI0	I	KIN_1	ext.		A/D 4-key input
26	P11/ANI1	I	KIN_2	ext.		A/D 4-key input
27	P12/ANI2	I	KIN_3	ext.		A/D 4-key input
28	P13/ANI3	I	KIN_4	ext.		A/D 4-key input
29	P14/ANI4	I	KIN_5	ext.		A/D 4-key input
30	P15/ANI5	I	GND			GND
31	P16/ANI6	I	GND			GND
32	P17/ANI7	I	GND			GND
33	AVSS		GND			GND
34	P130/ANO0	I	GND			GND
35	P131/ANO1	I	GND			GND
36	AVREF1		+3.3V			D/A reference
37	P70/RXD2/SI2	O	DIS_CE	int.	L	Latch for LC7571x
38	P71/TXD2/SO2	O	DIS_SDA	int.	L	Data for LC7571x
39	P72/ASCK2/SCK2	O	DIS_SCL	int.	L	Clock for LC7571x
40	P20/RXD1/SI1	I	RXD			for PcLink
41	P21/TXD1/SO1	O	TXD			for PcLink
42	P22/ASCK1/SCK1	O	n.c.		L	
43	P23/PCL	O	n.c.		L	
44	P24/BUZ	O	n.c.		L	
45	P25/SI0/SDA0	I	TXT_SDA	int.		Data for LC89170M
46	P26/SO0	O	n.c.		L	
47	P27/SCK0/SCL0	O	TXT_SCK	int.	L	Clock for LC89170M
48	P80/A0	O	n.c.		L	n.c.
49	P81/A1	O	n.c.		L	n.c.
50	P82/A2	O	n.c.		L	n.c.
51	P83/A3	O	n.c.		L	n.c.
52	P84/A4	O	n.c.		L	n.c.
53	P85/A5	O	n.c.		L	n.c.

Pin No.	Port Name	I/O	Signal Name	Pull up	Initial	Remarks
54	P86/A6	O	n.c.		L	n.c.
55	P87/A7	O	n.c.		L	n.c.
56	P40/AD0	I/O	CD_SDA	ext.	H	Data for CD10/MB15U10
57	P41/AD1	O	CD_SCL	ext.	H	Clock for CD10/MB15U10
58	P42/AD2	O	CD_SILD	int.	H	Latch for CD10 servo part
59	P43/AD3	O	CD_RAB	int.	L	Latch for CD10 decoder part
60	P44/AD4	O	PLL_CS	int.	L	CS for MB15U10
61	P45/AD5	O	CD_RES	int.	L	Reset for CD10/LC89170M
62	P46/AD6	O	DIS_RES	int.	L	Reset for LC7571x
63	P47/AD7	O	MP_RES	int.	L	Reset for STA016T
64	P50/A8	O	MP_STB	int.	L	Strobe for STA016T
65	P51/A9	I/O	IIC_SDA	ext.	L	Data for STA016T/AT24C4
66	P52/A10	O	IIC_SCL	ext.	L	Clock for STA016T/AT24C4
67	P53/A11	O	TRAY_CONT	ext.	HighZ	Tray in/out control
68	P54/A12	I	LOAD_SW	ext.		Tray loading sw Low active
69	P55/A13	O	SMUTE	int.	L	Soft mute for DAC
70	P56/A14	O	n.c.		L	n.c.
71	P57/A15	O	n.c.		L	n.c.
72	VSS		GND			GND
73	P60/A16	O	n.c.		L	n.c.
74	P61/A17	O	n.c.		L	n.c.
75	P62/A18	O	n.c.		L	n.c.
76	P63/A19	O	n.c.		L	n.c.
77	P64/RD	O	n.c.		L	n.c.
78	P65/WR	O	n.c.		L	n.c.
79	P66/WAIT	I	MP3_EN	int.	L	MP3 Enable = Open MP3 Disable = LOW
80	P67/ASTB	O	MOT_SW	int.	L	Spindle Free RUN Active HIGH
81	VDD		+3.3V			Power +3.3V
82	P100/TI5/TO5	O	n.c.		L	n.c.
83	P101/TI6/TO6	O	n.c.		L	n.c.
84	P102/TI7/TO7	O	n.c.		L	n.c.
85	P103/TI8/TO8	O	n.c.		L	n.c.
86	P30/TO0	O	n.c.		L	n.c.
87	P31/TO1	O	n.c.		L	n.c.
88	P32/TO2	O	n.c.		L	n.c.
89	P33/TO1	O	n.c.		L	n.c.
90	P34/TO2	O	n.c.		L	n.c.
91	P35/TO0	O	n.c.		L	n.c.
92	P36/TO1	O	n.c.		L	n.c.
93	P37/EXA	O	n.c.		L	n.c.
94	TEST		GND			GND
95	P90	O	S_PLAY	ext.	H	LED L active
96	P91	O	FL_OFF	ext.	H	LED L active
97	P92	O	n.c.		L	n.c.
98	P93	O	n.c.		L	n.c.
99	P94	O	n.c.		L	n.c.
100	P95	O	n.c.		L	n.c.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
001B	BLACK	05AK248010	FRONT PANEL AL BLACK	05AK248010
001B	GOLD	05AK248110	FRONT PANEL AL GOLD	05AK248110
002B		185J251010	MARANTZ BADGE BL PAINTED	185J251010
009B	BLACK	383K105020	FRONT CHASSIS PL RIGHT BLACK	383K105020
009B	GOLD	05AK105110	FRONT CHASSIS PL RIGHT GOLD	05AK105110
010B	BLACK	385K105010	FRONT CHASSIS PL LEFT BLACK	385K105010
010B	GOLD	05AK105210	FRONT CHASSIS PL LEFT GOLD	05AK105210
020B		05AK158010	WINDOW PINK SMOKE	05AK158010
023B		05AK270020	BUTTON 10 KEY	05AK270020
025B	BLACK	383K270040	BUTTON PLAY STOP BLACK	383K270040
025B	GOLD	05AK270140	BUTTON PLAY STOP GOLD	05AK270140
026B	BLACK	383K270020	BUTTON OPEN/CLOSE BLACK	383K270020
026B	GOLD	05AK270130	BUTTON OPEN/CLOSE GOLD	05AK270130
030B	BLACK	05AK063010	ESCUTCHEON BLACK	05AK063010
030B	GOLD	05AK063110	ESCUTCHEON GOLD	05AK063110
031B		05AK251010	BADGE ESCUTCHEON	05AK251010
037B	BLACK	386K154010	JOG KNOB BLACK	386K154010
037B	GOLD	05AK154110	JOG KNOB GOLD	05AK154110
048B	BLACK	284T154310	KNOB HEADPHONE VOLUME BLACK	284T154310
048B	GOLD	284T154250	KNOB HEADPHONE VOLUME GOLD	284T154250
050B	BLACK	05AK270010	BUTTON POWER BLACK	05AK270010
050B	GOLD	05AK270110	BUTTON POWER GOLD	05AK270110
009G		183J057010	LEG (GOLD HOT STAMP) FRONT	183J057010
010G		183J057110	LEG (GOLD HOT STAMP) REAR	183J057110
026G		376K121010	LINK POWER SW	376K121010
001M		05AK304500	MECHA LOADER ASSY VAL2212 08	05AK304500
002M		05AK304510	MECHA TRAVERSE ASSY VAM2202 08	05AK304510
L098		FC50270040	FERRITE CORE USB-4 TRANS-MAIN	FC50270040
L099		FC90280010	FERRITE CORE HF70SH28X2X10 SERVO-MAIN	FC90280010
▲ W001	/C	nsp	MAINS CORD KOREA 3A 250V	YC02000820
▲ W001	/F	nsp	MAINS CORD F HVFF 2X1.25	YC01800940
▲ W001	/K	nsp	MAINS CORD CCEE APP. (AC250V 10A)+ VAR2P	YC01800880
▲ W001	/N	YC01800790	MAINS CORD N (MAYOR)	YC01800790
▲ W001	/S	nsp	MAINS CORD BS WITH VAR-2	YC01800930
WF01		nsp	FFC (JF01-JY01)	YU20110520
WM01		nsp	FFC (J150-J103)	YU24140520
			PACKING	
001T	/F	nsp	USER GUIDE CD7300 F	05AK851110
001T	/K/S	nsp	USER GUIDE CD7300(ENG/CHI)	05AK851350
001T	/C	nsp	USER GUIDE CD7300(C)	05AK851210
001T	/N	05AK851250	USER GUIDE CD7300(N)	05AK851250
009T	/F	nsp	USER MANUAL ADDRESS SHEET	416K851130
WZ03		ZK05AK0010	REMOTE CONTROLLER RC7300CD	ZK05AK0010
			NOT STANDARD SPARE PARTS	
001D	BLACK	nsp	LID TOP COVER BLACK	349K257020
001D	GOLD	nsp	LID TOP COVER GOLD	349K257120
001S		nsp	PACKING CASE	05AK801010
002S		nsp	CUSHION	386K809010

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.



POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
1		QP40410986	SUSPENSION(4822 404 10986)	QP40410986
2		QP40111709	CLAMPER(4822 401 11709)	QP40111709
3		QP35810266	BELT(4822 358 10266)	QP35810266

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

12. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05xxx140, Carbon film fixed resistor, ±5% 1/4W

R***: 2) GD05xxx160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
 0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
 1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
 6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.

3) DD1xxx370, Ceramic capacitor
 Disc type
 Temp.coeff.P350 ~N1000, 50V
 ② — Capacity value
 ③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)

±0.25 pF 0
 ±0.5 pF 1
 ±5% 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF ~ 5 pF ±0.25 pF
 6 pF ~ 10 pF ±0.5 pF
 12 pF ~ 560 pF ±5%

③ Capacity value

0.5 pF 005 3 pF 030 100 pF 101
 1 pF 010 10 pF 100 220 pF 221
 1.5 pF 015 47 pF 470 560 pF 561

C***: CERAMIC CAP.

4) DK16xxx300, High dielectric constant ceramic capacitor
 Disc type
 Temp.chara. 2B4, 50V
 ④ — Capacity value

Examples ;

④ Capacity value

100 pF 101 1000 pF 102 10000 pF 103
 470 pF 471 2200 pF 222

C***: 5) ELECTROLY CAP. (⏏), 6) FILM CAP. (⏏)

5) EAxxx10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%
 ⑤ — Capacity value
 ⑥ — Working voltage

Examples ;

⑤ Capacity value

0.1 μF 104 4.7 μF 475 100 μF 107
 0.33 μF 334 10 μF 106 330 μF 337
 1 μF 105 22 μF 226 1100 μF 118
 2200 μF 228

⑥ Working voltage

6.3V 006 25V 025
 10V 010 35V 035
 16V 016 50V 050

6) DF15xxx350 — Plastic film capacitor
 DF15xxx310 — One-way type, Mylar ±5% 50V
 DF16xxx310 — Plastic film capacitor
 One-way type, Mylar ±10% 50V
 ⑦ — Capacity value

Examples ;

⑦ Capacity value

0.001 μF (1000 pF) 102 0.1 μF 104
 0.0018 μF 182 0.56 μF 564
 0.01 μF 103 1 μF 105
 0.015 μF 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts (R105, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05xxx140	RF25SxxxΩJ	(±5% 1/4W)
NH05xxx120	RF50SxxxΩJ	(±5% 1/2W)
NH85xxx110	RF73B2AxxxΩJ	(±5% 1/10W)
NH95xxx140	RF73B2ExxxΩJ	(±5% 1/4W)

* Resistance value Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05xxx140	ERD-2FCJxxx	(±5% 1/4W)
RF05xxx140		
NF02xxx140	ERD-2FCGxxx	(±2% 1/4W)
RF02xxx140		

* Resistance value * Resistance value

Examples ;

* Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
 0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
 1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
 6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475



ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X'TAL : CRYSTAL


NOTE ON FUSE :

Regarding to all parts of parts code **FS20xxx2xx**, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PF01-FRONT CIRCUIT BOARD	
			PF01-CAPACITORS	
CF01	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CF02	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CF03	nsp		CER. CHIP 27pF	DD95270300
CF04	nsp		CER. CHIP 0.047µF	DK98473300
CF05	nsp		CER. CHIP 0.01µF	DK98103300
CF11	nsp		CER. CHIP 0.01µF	DK98103300
CF12	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CF13	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CF14	nsp		CER. CHIP 22pF ±5% CG 50V	DD95220300
CF15	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CR01	nsp		ELECT. 100µF M 10V RA-2	OA10701020
			PF01-RESISTORS	
RF01	nsp		CHIP 1kΩ ±5% 1/16W	NN05102610
RF03	nsp		CHIP 12kΩ ±5% 1/16W	NN05123610
RF04	nsp		CHIP 82kΩ ±5% 1/16W	NN05823610
RF05	nsp		CHIP 12kΩ ±5% 1/16W	NN05123610
RF06	nsp		CHIP 82kΩ ±5% 1/16W	NN05823610
RF07	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RF08	nsp		CHIP 12kΩ ±5% 1/16W	NN05123610
RF09	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RF10	nsp		CHIP 82kΩ ±5% 1/16W	NN05823610
RF11	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RF12	nsp		CHIP 82kΩ ±5% 1/16W	NN05823610
RF13	nsp		CHIP 12kΩ ±5% 1/16W	NN05123610
RF14	nsp		CHIP 82kΩ ±5% 1/16W	NN05823610
RF15	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RF16	nsp		CHIP 12kΩ ±5% 1/16W	NN05123610
RF17	nsp		CHIP 10kΩ ±5% 1/16W	NN05103610
RF18	nsp		CHIP 10kΩ ±5% 1/16W	NN05103610
RF19	nsp		CHIP 10kΩ ±5% 1/16W	NN05103610
RF21	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RF22	nsp		CHIP 15kΩ ±5% 1/16W	NN05153610
RF24	nsp		CHIP 220Ω ±5% 1/16W	NN05221610
RF29	nsp		CHIP 10kΩ ±5% 1/16W	NN05103610
RR01	nsp		CHIP 220Ω ±5% 1/16W	NN05221610
RR02	nsp		CHIP 220Ω ±5% 1/16W	NN05221610
RR03	nsp		CHIP 47kΩ ±5% 1/16W	NN05473610
			PF01-SEMICONDUCTORS	
DF02		HI10036080	L.E.D. RED SEL4117R-TP2	HI10036080
DR01		HW10004210	IR SENSOR RPM6936-V4	HW10004210
QF01		HC10416030	IC FL DRIVER LC75712NE	HC10416030
QR01		BA10026210	DIG. TRS. DTA114EU	BA10026210
QR02		HX100012A0	CHIP TRS. 2SA1586 (Y GR) 2SA1576A (Q R)	HX100012A0
			PF01-MISCELLANEOUS	
LF21		FN31000020	BLM11B252SD	FN31000020
LF22		FN31000020	BLM11B252SD	FN31000020
SF01				
		SP01013310	PUSH SW. SKQNAE H/5MM 160GF	SP01013310
SF17				
SF18		SR03030030	ROTARY SW. EC11B ROT.ENCODER WITH PUSH.SW	SR03030030
VF01		HQ31301920	DISPLAY UNIT FTD CM2059C	HQ31301920
			PH01-HEAD PHONE CIRCUIT BOARD	
			PH01-CAPACITORS	
C901	nsp		CER. CHIP 220pF	DK96221300
C902	nsp		CER. CHIP 220pF	DK96221300
C903	nsp		ELECT. 100µF M 16V RA-2	OA10701620
C904	nsp		ELECT. 100µF M 16V RA-2	OA10701620
			PH01-RESISTORS	
R901		RM01031170	VARIABLE RK09L12B0 10K B(D-CUT REVERSE)	RM01031170

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R902		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R903		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R904		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R905		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
R906		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R907		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
R908		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R909		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
R910				
		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
R913				
R914		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R915		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R991				
		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R994				
			PH01-SEMICONDUCTORS	
Q901		HC10045090	IC NJM-4556MB	HC10045090
Q991		HX342132A0	CHIP TRS. 2SC4213	HX342132A0
Q992		HX342132A0	CHIP TRS. 2SC4213	HX342132A0
Q993		HX342132A0	CHIP TRS. 2SC4213	HX342132A0
Q994		HX342132A0	CHIP TRS. 2SC4213	HX342132A0
			PH01-MISCELLANEOUS	
J901		YJ01003870	H.P JACK HLU0540-01-410 BLACK	YJ01003870
L901		FN31000020	BLM11B252SD	FN31000020
L902		FN31000020	BLM11B252SD	FN31000020
			PM01-MAIN CIRCUIT BOARD	
			PM01-CAPACITORS	
C301				
		OF15561540	FILM APSV 561J 560pF 100V PP	OF15561540
C304				
C307				
		OF15151540	FILM 150pF 100V J APSV	OF15151540
C310				
C311				
		nsp	ELECT. 220µF/16V ARA CERAFINE	OA22701650
C314				
C401		OF15182540	FILM APSV 182J 1800pF 100V PP	OF15182540
C402		OF15182540	FILM APSV 182J 1800pF 100V PP	OF15182540
C403		OF15102540	FILM 1000pF J 100V APSV	OF15102540
C404		OF15102540	FILM 1000pF J 100V APSV	OF15102540
C405		OF15471540	FILM APSV 471J 470pF 100V PP	OF15471540
C406		OF15471540	FILM APSV 471J 470pF 100V PP	OF15471540
C411				
		nsp	ELECT. 220µF/16V ARA CERAFINE	OA22701650
C414				
C601		nsp	ELECT. 220µF 16V ARS	OA22701640
C602		nsp	ELECT. 220µF 16V ARS	OA22701640
C807		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C816		nsp	CER. CHIP 0.01µF	DK98103300
C818		nsp	CER. CHIP 0.01µF	DK98103300
C819		nsp	ELECT. 10µF M 16V RA-2	OA10601620
C823		nsp	ELECT. 470µF M 10V RA-2	OA47701020
C824		nsp	ELECT. 470µF M 10V RA-2	OA47701020
C825		nsp	ELECT. 470µF 16V M RA-2	OA47701620
C828		nsp	ELECT. 470µF M 10V RA-2	OA47701020
C829		nsp	ELECT. 6800µF 16V RA2	OA68801620
C830		nsp	ELECT. 470µF 16V M RA-2	OA47701620
C831		nsp	ELECT. 470µF M 50V RA-2	OA47705020
C832		nsp	ELECT. 1000µF 35V ARS SILMIC	OA10803540
C833		nsp	ELECT. 1000µF 35V ARS SILMIC	OA10803540
C834		nsp	ELECT. 100µF M 35V RA-2	OA10703520
C835		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C836		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CD01		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R411		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
CD02		nsp	CER. CHIP 1µF 10V F	DK98105200	R412		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
CD03		nsp	ELECT. 47µF M 16V RA-2	OA47601620	R413		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
CD04		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R414		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
CD05		nsp	ELECT. 47µF M 16V RA-2	OA47601620	R415		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CD06		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R416		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CD07		nsp	ELECT. 100µF 16V ARA	OA10701650	R417		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
CD08		nsp	CER. CHIP 1µF 10V F	DK98105200	R418		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
CD09		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R419		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CD10		nsp	CER. CHIP 1µF 10V F	DK98105200	R420		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CD14		nsp	ELECT. 100µF 10V ARA	OA10701050	R421		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CD16		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R422		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CD17		nsp	CER. CHIP 0.01µF	DK98103300	R423		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CD18		nsp	CER. CHIP 0.01µF	DK98103300	R424		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CD21									
CD24		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	R601		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CD25		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	R602		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CD26		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	R603				
CD27		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	R606		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CD28		nsp	CER. CHIP 10pF ±0.5pF CH 50V	DD91100300	R607		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CD29		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R608		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CD30		nsp	CER. CHIP 220pF	DK96221300	R609		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CD31		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	R610		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CN01		nsp	ELECT. 1000µF M 16V RA-2	OA10801620	R611				
CN02		nsp	ELECT. 10µF M 16V RA-2	OA10601620	R614		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
CN03		nsp	ELECT. 47µF M 16V RA-2	OA47601620	R805		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
CN04		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R806		nsp	CHIP 68Ω ±5% 1/16W	NN05680610
CR91		nsp	CER. CHIP 220pF	DK96221300	R807		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CR92		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R808		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CT91		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	R810	NH05022140	FUSIBLE 2.2Ω J 1/4W RADIAL	NH05022140	
CT92		nsp	ELECT. 10µF M 16V RA-2	OA10601620	R811		nsp	CHIP 33Ω ±5% 1/16W	NN05330610
CT93		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	R881		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT94		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R882		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT95		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R883		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
			PM01-RESISTORS						
R301									
R306		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RD01		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R307		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	RD02		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R308		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	RD03		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R309		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RD04		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R310		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RD05		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R311					RD06		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R314		nsp	CHIP 120Ω ±5% 1/16W	NN05121610	RD07		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R315		nsp	CHIP 68Ω ±5% 1/16W	NN05680610	RD08		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R316		nsp	CHIP 68Ω ±5% 1/16W	NN05680610	RD09		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R317		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RD10		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R318		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RN01		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R319		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610	RN02		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
R320		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610	RN03		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R321		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RN04		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R322		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RN05		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610
R323		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RN07		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R324		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RN08		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R325		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	RN09		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R326		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	RN10		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R327		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RN11		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
R328		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RR91		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R333		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RT91		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
R334		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RT93		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R401					RT94		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
R406		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610				PM01-RESISTORS (COMMON)	
R407								CARBON FILM FIXED RES.	
R410		nsp	CHIP 120Ω ±5% 1/16W	NN05121610				±5% 1/6W :	
								R329-R332 R425-R428 R801-R804	
								PM01-SEMICONDUCTORS	
					D301	HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	
					D302	HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJ)
D303 }		HZ20018050	CHIP DIODE 1SS302	HZ20018050	Q805		HC3990909F	IC REG. NJM7909FA	HC3990909F
D306					Q805		HT417622B0	TRS. 2SD1762 (E F)	HT417622B0
D401		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	Q806		HC39124090	IC REG. NJM79L24A:0.1A-24V	HC39124090
D402		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	Q807		HC38105090	IC REG. NJM78L05A	HC38105090
D403 }					Q808		HX300012A0	CHIP TRS.	HX300012A0
D406		HZ20018050	CHIP DIODE 1SS302	HZ20018050				2SC4081 (Q R) 2SC4116 (Y GR)	
▲ D801 }		HD20055100	DIODE SHOTTKY	HD20055100	QD01		HC10011880	IC DAC CS4396-KS	HC10011880
▲ D804			11EQS10 1A 100V		QD02		BA20035210	DIG. TRS. DTC114EU	BA20035210
▲ D805		HD20002710	DIODE 1D3 1A/200V	HD20002710	QD03		HC10427050	IC TC7SHU04F 1PACK 1NV	HC10427050
▲ D806		HD20002710	DIODE 1D3 1A/200V	HD20002710	QN01				
D807		HZ30011020	CHIP DIODE MA8043M	HZ30011020	QN03		HX300012A0	CHIP TRS.	HX300012A0
▲ D808		HD20002710	DIODE 1D3 1A/200V	HD20002710	QN04		BA10026210	DIG. TRS. DTA114EU	BA10026210
D810		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	QN05		BA20035210	DIG. TRS. DTC114EU	BA20035210
D811		HZ30011020	CHIP DIODE MA8043M	HZ30011020	QN06		BA10026210	DIG. TRS. DTA114EU	BA10026210
D813		nsp	DIODE	HD20002000	QN07		BA10026210	DIG. TRS. DTA114EU	BA10026210
			1SS176 MA165 1SS254 30V 0.1A		QN08		HX300012A0	CHIP TRS.	HX300012A0
D814		nsp	DIODE	HD20002000				2SC4081 (Q R) 2SC4116 (Y GR)	
			1SS176 MA165 1SS254 30V 0.1A		QN09		BA10026210	DIG. TRS. DTA114EU	BA10026210
D815		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	QN10		HX346721A0	CHIP TRS. 2SC4672 Q	HX346721A0
D816		HZ30011020	CHIP DIODE MA8043M	HZ30011020	QN11		BA20035210	DIG. TRS. DTC114EU	BA20035210
▲ DN01 }		HD20002710	DIODE 1D3 1A/200V	HD20002710	▲ F801		FS20100200	PM01-MISCELLANEOUS FUZE 1A 250V SEMKO VDE	FS20100200
▲ DN04					▲ F802		FS20100200	FUZE 1A 250V SEMKO VDE	FS20100200
DN05		HZ30011020	CHIP DIODE MA8043M	HZ30011020	J601		YT02021080	TERMINAL YKC21-3337 CINCH	YT02021080
DN09		HZ30471000	CHIP DIODE MA8047-M 4.7V	HZ30471000				P-JACK W/R GOLD	
					JR91		YT02020890	TERMINAL 2P CINCH PIN JACK	YT02020890
Q301		HF203691B0	F.E.T.	HF203691B0	JT91		YT02010790	TERMINAL 14X14 RA 1L1P	YT02010790
			2SK369 BL VGDS-40V PD0.4W					BLK AU FLM-GND	
Q302		HF203691B0	F.E.T.	HF203691B0	JT92		YJ15000210	OPT. CONNECTOR FJF300	YJ15000210
			2SK369 BL VGDS-40V PD0.4W		L829		FC90050130	CHIP FERRITE BL02RN2-R62T2	FC90050130
Q303		HX328731B0	CHIP TRS. 2SC2873 (Y)	HX328731B0	LD01		FC90050130	CHIP FERRITE BL02RN2-R62T2	FC90050130
Q304		HX328731B0	CHIP TRS. 2SC2873 (Y)	HX328731B0	LD02		FN31000020	BLM11B252SD	FN31000020
Q305 }					LD03		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
Q308		HX113121B0	CHIP TRS. 2SA1312 (B)	HX113121B0	LR91		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
Q309		HX333241B0	CHIP TRS. 2SC3324 (B)	HX333241B0	LT91		TP41042030	PULSE TRNSF.	TP41042030
Q310		HX333241B0	CHIP TRS. 2SC3324 (B)	HX333241B0				(TPS247MN-0386AN)	
Q311		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0	LT92		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
Q312		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0	SR01		SS01021010	SLIDE SWITCH SSSF12-S06N0	SS01021010
Q313		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0				HORIZONTAL N-SHOT	
Q314		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0					
Q315		HF203691B0	F.E.T.	HF203691B0	▲ C001		DF77103500	FILM. 0.01µF M 250V AC	DF77103500
			2SK369 BL VGDS-40V PD0.4W		▲ F001		FS10050850	FUSE 500 MA 250V BS LISTED	FS10050850
Q316		HF203691B0	F.E.T.	HF203691B0	▲ J001		YP04000760	PLUG CONNECTOR 2P B3P-VH	YP04000760
			2SK369 BL VGDS-40V PD0.4W		▲ J003	/C/F/N	YP04000760	PLUG CONNECTOR 2P B3P-VH	YP04000760
Q401		HF203892A0	F.E.T. 2SK389 GR OR BL	HF203892A0		/S	nsp	PLUG B3P5-VH	YP04000920
Q402		HF203892A0	F.E.T. 2SK389 GR OR BL	HF203892A0	▲ J003	/K	SP01012480	PUSH SW. ESB92S94B TV-5 1.5MM	SP01012480
Q403		HX328731B0	CHIP TRS. 2SC2873 (Y)	HX328731B0	▲ S001		nsp	SLIDE SW. SDKGA4 SEMKO	SS02021510
Q404		HX328731B0	CHIP TRS. 2SC2873 (Y)	HX328731B0	▲ S002	/K			
Q405 }									
Q408		HX113121B0	CHIP TRS. 2SA1312 (B)	HX113121B0					
Q409		HX333241B0	CHIP TRS. 2SC3324 (B)	HX333241B0	C101		nsp	CER. CHIP 5pF ±0.25pF CH 50V	DD90050300
Q410		HX333241B0	CHIP TRS. 2SC3324 (B)	HX333241B0	C102		nsp	CER. CHIP 0.01µF	DK98103300
Q411		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0	C103		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
Q412		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0	C104		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300
Q413		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0	C105		nsp	ELECT. 47µF M 16V RA-2	OA47601620
Q414		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0	C108		nsp	ELECT. 47µF M 16V RA-2	OA47601620
Q601 }					C110		nsp	ELECT. 100µF M 10V RA-2	OA10701020
Q604		HX342132A0	CHIP TRS. 2SC4213	HX342132A0	C111		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
					C114		nsp		
Q801		HC3890509F	IC REG. NJM7805FA +5V	HC3890509F	C115		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300
Q802		HC3890909F	IC REG. NJM7809FA +9V 1A	HC3890909F	C116		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
C117					CM17		nsp	CER. CHIP 470pF	DK96471300
C120		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CM18		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300
C121		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300	CM21		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C122					CM22		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C125		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CM23		nsp	ELECT. 100µF M 10V RA-2	OA10701020
C126		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300	CM24		nsp	CER. CHIP 33pF ±5% CG 50V	DD95330300
C127		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CM25		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
C128		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CM26		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
C129		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300	CM27		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
C130		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CY01		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C131		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300	CY04				
C132		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CY05		nsp	CER. CHIP 1µF 10V F	DK98105200
C133		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	CY06		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C150		nsp	CER. CHIP 0.047µF	DK98473300	CY14		nsp	CER. CHIP 0.01µF	DK98103300
C151		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300	CY15		nsp	CER. CHIP 0.01µF	DK98103300
C152		nsp	CER. CHIP 0.01µF	DK98103300	CY16		nsp	ELECT. 100µF M 10V RA-2	OA10701020
C153		nsp	CER. CHIP 1µF 10V F	DK98105200					
C154		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	R101		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C155		nsp	CER. CHIP 0.022µF	DK98223300	R102		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C158		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R103		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C159		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R104		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
C163		nsp	CER. CHIP 180pF	DD95181300	R105		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
C164		nsp	CER. CHIP 220pF	DK96221300	R106		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
C165		nsp	CER. CHIP 220pF	DK96221300	R107		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
C166		nsp	CER. CHIP 330pF	DK96331300	R109		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
C167		nsp	CER. CHIP 180pF	DD95181300	R110		nsp	CHIP 47Ω ±5% 1/16W	NN05470610
C168		nsp	CER. CHIP 220pF	DK96221300	R111		nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610
C169		nsp	CER. CHIP 220pF	DK96221300	R113		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610
C170		nsp	CER. CHIP 180pF	DD95181300	R114		nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610
C171		nsp	CER. CHIP 220pF	DK96221300	R115		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
C172		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R116		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
C173		nsp	CER. CHIP 180pF	DD95181300	R117		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
C174		nsp	CER. CHIP 220pF	DK96221300	R118		nsp	CHIP 18kΩ ±5% 1/16W	NN05183610
C175		nsp	CER. CHIP 1µF 10V F	DK98105200	R119		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
C176		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R120		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
C177		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R121		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
C178		nsp	CER. CHIP 0.01µF	DK98103300	R122		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
C180		nsp	CER. CHIP 0.01µF	DK98103300	R123		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
C181		nsp	CER. CHIP 0.01µF	DK98103300	R124		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
C182		nsp	CER. CHIP 0.01µF	DK98103300	R125		nsp	CHIP 390Ω ±5% 1/16W	NN05391610
C184		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300	R126		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
C185		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R127		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610
C187		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R129		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
C188		nsp	CER. CHIP 2200pF	DK96222300	R130		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
C192		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R131		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
C193		nsp	CER. CHIP 1µF 10V F	DK98105200	R132		nsp	CHIP 220Ω ±5% 1/16W	NN05221610
C194		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R133		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
C195		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R134		nsp	CHIP 22Ω ±5% 1/16W	NN05220610
C201		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R135		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610
C202		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R136		nsp	CHIP 180kΩ ±5% 1/16W	NN05184610
C810		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R137		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
C811		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R138		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CM02		nsp	ELECT. 100µF M 10V RA-2	OA10701020	R139		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CM03					R140		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CM06		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R141		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
CM07		nsp	CER. CHIP 1µF 10V F	DK98105200	R142		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
CM08		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R143		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CM09		nsp	CER. CHIP 1µF 10V F	DK98105200	R144		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
CM10		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R145		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CM11		nsp	CER. CHIP 1µF 10V F	DK98105200	R146		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
CM13		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	R147		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
CM14		nsp	CER. CHIP 470pF	DK96471300	R148		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CM15		nsp	CER. CHIP 1µF 10V F	DK98105200	R149		nsp	CHIP 150kΩ ±5% 1/16W	NN05154610
CM16		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200	R150		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
					R151		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
					R152		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJ)
R153		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	RY01		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R154		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RY02		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R155					RY03		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
}		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RY04		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R165					RY05		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R166		nsp	CHIP 47Ω ±5% 1/16W	NN05470610	RY06		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R167		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610	RY07		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R168		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RY08		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R169		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	RY09		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R170		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	RY10		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R171		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RY11		nsp	CHIP 10Ω ±5% 1/16W	NN05100610
R172		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	RY13		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R173		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	RY14		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R174		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RY15		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R175		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	RY17		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R176		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RY21		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R177		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	RY22		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R178		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RY23		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
R179		nsp	CHIP 47Ω ±5% 1/16W	NN05470610					
R180		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	D101		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
R181		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	D102		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
R182		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	DR02		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
R183		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610					
R185		nsp	CHIP 680Ω ±5% 1/16W	NN05681610	Q101		HC10207490	IC TZA1024 RF AMP	HC10207490
R186		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	Q102		HX300012A0	CHIP TRS.	HX300012A0
R187		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610				2SC4081 (Q R) 2SC4116 (Y GR)	
R188		nsp	CHIP 220Ω ±5% 1/16W	NN05221610	Q103				
R189					}		HC10165490	IC TDA7073AT	HC10165490
}		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	Q105			SOP DUAL BTL DRIVER	
R192					Q106		BA10026210	DIG. TRS. DTA114EU	BA10026210
R194		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	Q107		BA20035210	DIG. TRS. DTC114EU	BA20035210
R195		nsp	CHIP 5.6Ω ±5% 1/16W	NN05056610	Q108		BA20035210	DIG. TRS. DTC114EU	BA20035210
R196		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	Q109		HX300012A0	CHIP TRS.	HX300012A0
R197		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610				2SC4081 (Q R) 2SC4116 (Y GR)	
R198		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	Q110		HX100012A0	CHIP TRS.	HX100012A0
R199		nsp	CHIP 220Ω ±5% 1/16W	NN05221610				2SA1586 (Y GR) 2SA1576A (Q R)	
R201		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	Q111				
R202		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	}		HX300012A0	CHIP TRS	HX300012A0
R211		nsp	CHIP 68Ω ±5% 1/16W	NN05680610	Q114			2SC4081 (Q R) 2SC4116 (Y GR)	
R212		nsp	CHIP 5.6Ω ±5% 1/16W	NN05056610	Q150		HC10209490	IC SAA7324H/M2B	HC10209490
R213		nsp	CHIP 5.6Ω ±5% 1/16W	NN05056610	Q152		HC762837Z0	IC SN74LS62BNS	HC762837Z0
R220		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610	Q153		HC10225210	IC BU2630FV-E2	HC10225210
R221		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	Q154		HC90005090	IC NJM78L05UA CHIP REG	HC90005090
R226		nsp	CHIP 22Ω ±5% 1/16W	NN05220610	Q201		HC10390030	IC CD TEXT DECODER SANYO	HC10390030
R227		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	QM01		HC10010540	IC STA016T MP3 DECODER	HC10010540
RM01		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QM02		HX346721A0	CHIP TRS. 2SC4672 Q	HX346721A0
RM02		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	QR21		HX300012A0	CHIP TRS.	HX300012A0
RM03		nsp	CHIP 10Ω ±5% 1/16W	NN05100610				2SC4081 (Q R) 2SC4116 (Y GR)	
RM04		nsp	CHIP 4.7Ω ±5% 1/16W	NN05047610	QY01		HU05AKN10F	MICROPROCESSOR	HU05AKN10F
RM05								UPD784216AGC-175-8EU	
}		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	QY02		HC10224210	IC BD4742G RESET IC 4.2V	HC10224210
RM09					QY03		HC10033990	IC AT24C04N-10SI-2.5	HC10033990
RM11		nsp	CHIP 330Ω ±5% 1/16W	NN05331610					
RM12		nsp	CHIP 330Ω ±5% 1/16W	NN05331610	L150		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
RM13		nsp	CHIP 330Ω ±5% 1/16W	NN05331610	L151		FN31000020	BLM11B252SD	FN31000020
RM14		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	L801		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
RM15		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	LM01		FC90050130	CHIP FERRITE BL02RN2-R62T2	FC90050130
RM16		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	LM03				
RM17		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	}		FN31000020	BLM11B252SD	FN31000020
RM18		nsp	CHIP 470kΩ ±5% 1/16W	NN05474610	LM06				
RM19		nsp	CHIP 470Ω ±5% 1/16W	NN05471610	LM07		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
RM24		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	LM08		FC90020110	CHIP FERRITE BLM11B601S	FC90020110
RM51					X150		JX08001320	CRYSTAL CM309S 8.4672MHz	JX08001320
}		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	XY01		FQ01005020	CERAMIC VIB. CSTCC10.0MG	FQ01005020
RM54								RESONATOR 10MHz	
RR21		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RR22		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610					
RR23		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
▲ J007	/K	nsp	PT01-TRANS CIRCUIT BOARD	YP04000920
▲ J007	/C/F/N	YP04000760	PLUG B3P5-VH PLUG CONNECTOR 2P B3P-VH	YP04000760
▲ T001	/S /F	nsp	MAINS TRANSF. EI57-25 100V 50/60HZ	TS15725190
▲ T001	/K	nsp	MAINS TRANSF. EI57-25 110V/220V 50/60HZ	TS15725200
▲ T001	/C/N/S	TS15725210	MAINS TRANSF. EI57-25 230V 50HZ	TS15725210

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