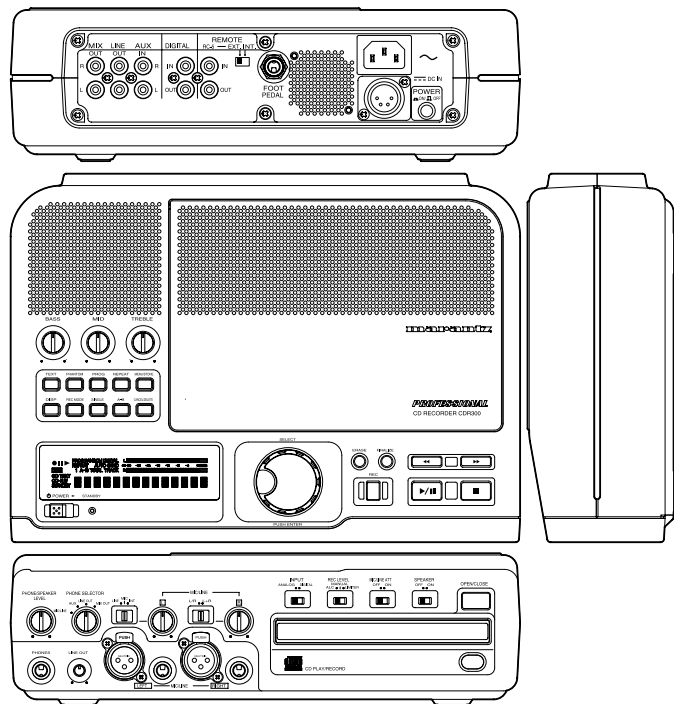


Service Manual

CDR300 /F1B/N1B/U1B

CD Recorder



CDR300

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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®

CDR300

MARANTZ DESIGN AND SERVICE

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

EUROPE / TRADING

MARANTZ EUROPE B.V.
P. O. BOX 8744, BUILDING SILVERPOINT
BEEMDSTRAAT 11, 5653 MA EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2507844
FAX : +31 - 40 - 2507860

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

PROFESSIONAL AMERICAS

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL AUSTRALIA

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

PROFESSIONAL HONG KONG

Jolly ProAudio Broadcast Engineering Ltd.
UNIT 2, 10F, WAH HUNG CENTRE,
41 HUNG TO ROAD, KWUN TONG, KLN.,
HONG KONG
PHONE : 852 - 21913660
FAX : 852 - 21913990

AUSTRALIA

QualiFi Pty Ltd,
24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - (0)3 - 9543 - 1522
FAX : +61 - (0)3 - 9543 - 3677

THAILAND

MRZ STANDARD CO., LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 6858 5535 / +65 6381 8621
FAX : +65 6858 6078

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
2ND FLOOR BANGUNAN INFINITE CENTRE
LOT 1, JALAN 13/6, 46200 PETALING JAYA
SELANGOR DARUL EHSAN, MALAYSIA
PHONE : +60 - 3 - 7954 8088
FAX : +60 - 3 - 7954 7088

JAPAN *Technical*

MARANTZ JAPAN, INC.
35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

日本マランツ株式会社

本社 〒228-8505
神奈川県相模原市相模大野7-35-1
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. 813.

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

1. TECHNICAL SPECIFICATIONS

General

System.....Compact Disc Digital Audio (CD-DA)
Number of channels..... 2 (stereo)
Applicable discs CD, CD-R, CD-RW
Power requirement
/U.....AC 120V 60 Hz
/N.....AC 230V 50 Hz
/FAC 100V 50 / 60 Hz
DC IN..... DC 13.2 V
Dimensions (maximum)
Width 11 inches (300 mm)
Height4 inches (102 mm)
Depth.....9 inches (229 mm)
Weight.....7 pounds (3.2 kg)

Audio

ADC 24 Bit Resolution 8 x over sampling
DAC 20 Bit Resolution 8 x over sampling
Overall frequency response.....20 Hz - 20 kHz

CD-R drive output

Playback S/N 85 dB
Playback Dynamic Range..... 85 dB
Playback Total Harmonic Distortion 0.05%
Output Voltage/Impedance (Line Output) 1.0 V/2 kohm

MIC/LINE analog input

LINE level
S/N..... 80 dB
THD 0.05%
Input Sensitivity/Impedance.....500 mV/2 kohm
MIC level
S/N..... 60 dB
THD 0.2%
Input Sensitivity/Impedance..... 1.2 mV/2 kohm

AUX analog input

S/N..... 75 dB
THD 0.05%
Input Sensitivity/Impedance.....800 mV/23 kohm

Digital Input

Sample rate 11 kHz ~ 58 kHz

Digital Output

Output Level/Impedance..... 0.5 Vp-p/75 ohm

Headphone Output (10% THD)

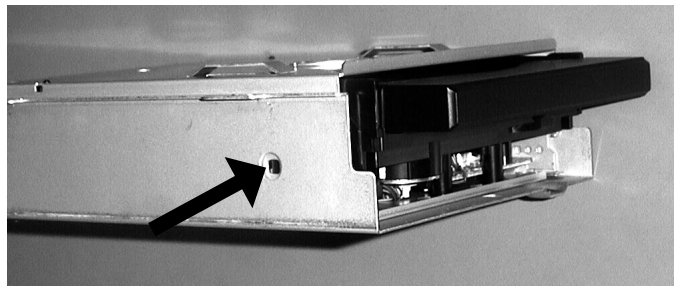
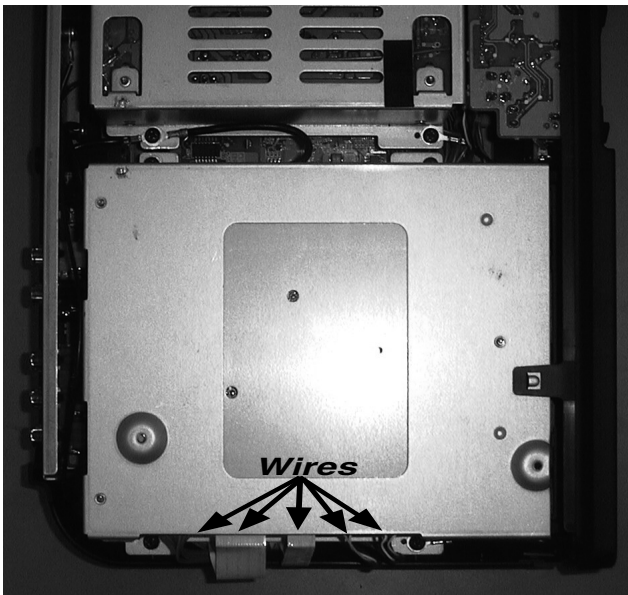
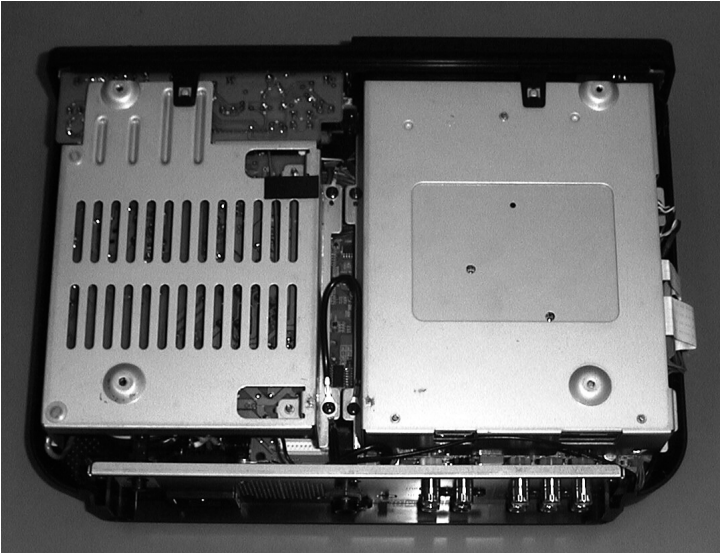
Level/Impedance..... 70 mW/32 ohm

Speaker Output (10% THD)

Level/Impedance..... 1.7 W/8 ohm

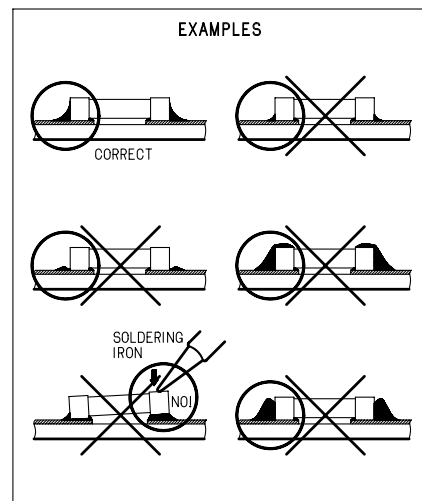
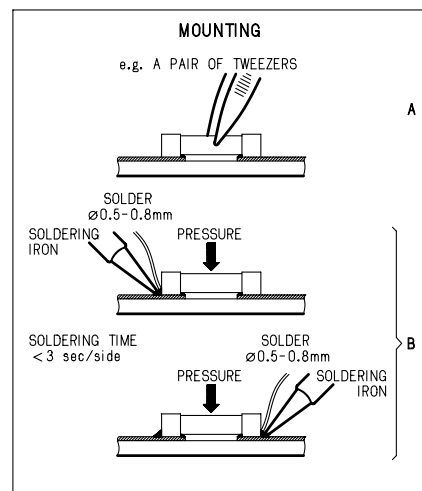
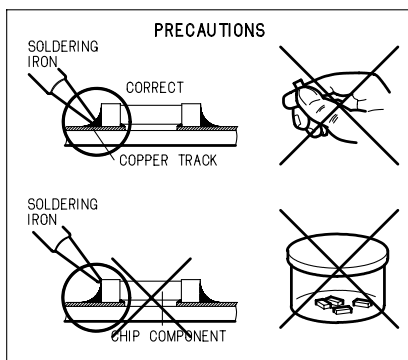
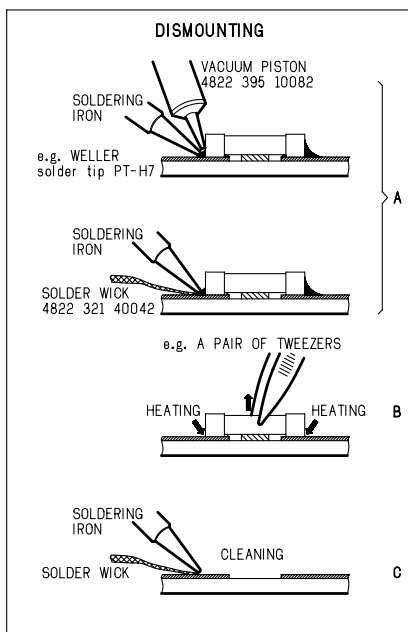
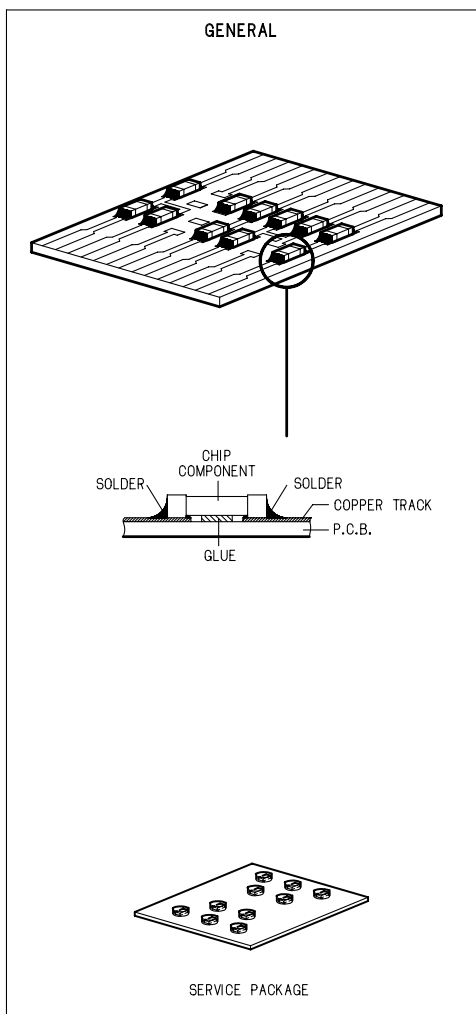
2. EMERGENCY DISC REMOVAL FROM CDR DRIVE

1. Remove the seven screws and bottom case.
2. Disconnect the two FPC and 3 wires for the CDR module (A001).
3. Remove the four screws for the bracket (008G) of the CDR Module.
4. Remove the CDR module.
Lift up backside of the CDR module and pull it backward.
5. Insert the small screwdriver into the hole of left side and disc tray will be opened.



3. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204

4. SERVICE MODE

Procedure

1. With pressing CDR **STOP** button and **PUSH ENTER** button, press **POWER** button on the rear panel to turn on power.
2. Model name (CDR300) and version number of the micro computer will be shown.
3. Turn **SELECT** knob to select an item from the following menu and press **PUSH ENTER** button to enter the menu item.

Press **PUSH ENTER** to quit menu item.

3-1 CDR VERSION

Firmware version of the CDR μ -com will be displayed after "SANYO CDR-RA2".

3-2 DISPLAY

FL and LED are light on and light off in the following order.

- (1) All FL and LED are light up for 1 second.
- (2) Each FL grid is light up one by one.
- (3) All display is light off for 1 second.
- (4) STANDBY LED is light up for 1 second.
- (5) All display is light off for 1 second.
- (6) All display is light off for 1 second.
- (7) CDR DRIVE PLAY LED is light up for 1 second.
- (8) CDR DRIVE STOP LED is light up for 1 second.
- (9) CDR DRIVE REC LED is light up for 1 second.
- (10) All display is light off for 1 second.

3-3 KEY

By operating the switches, buttons and knobs listed below, you can check if the contact is good or not.

TEXT, VR, PROG, REPEAT, MENU/STORE, DISP, REC MODE, SINGLE, A-B, CANCEL/DELETE, KEY \flat , KEY #, TEMPO -, TEMPO +, SELECT POWER, INPUT, ALC, ERASE, FINALIZE, REW, FF, REC, PLAY, STOP, OPEN/CLOSE

Also pressing a button on the remote controller (RC300CDR) makes the remote code displayed on FL.

3-4 EEPROM CLEAR

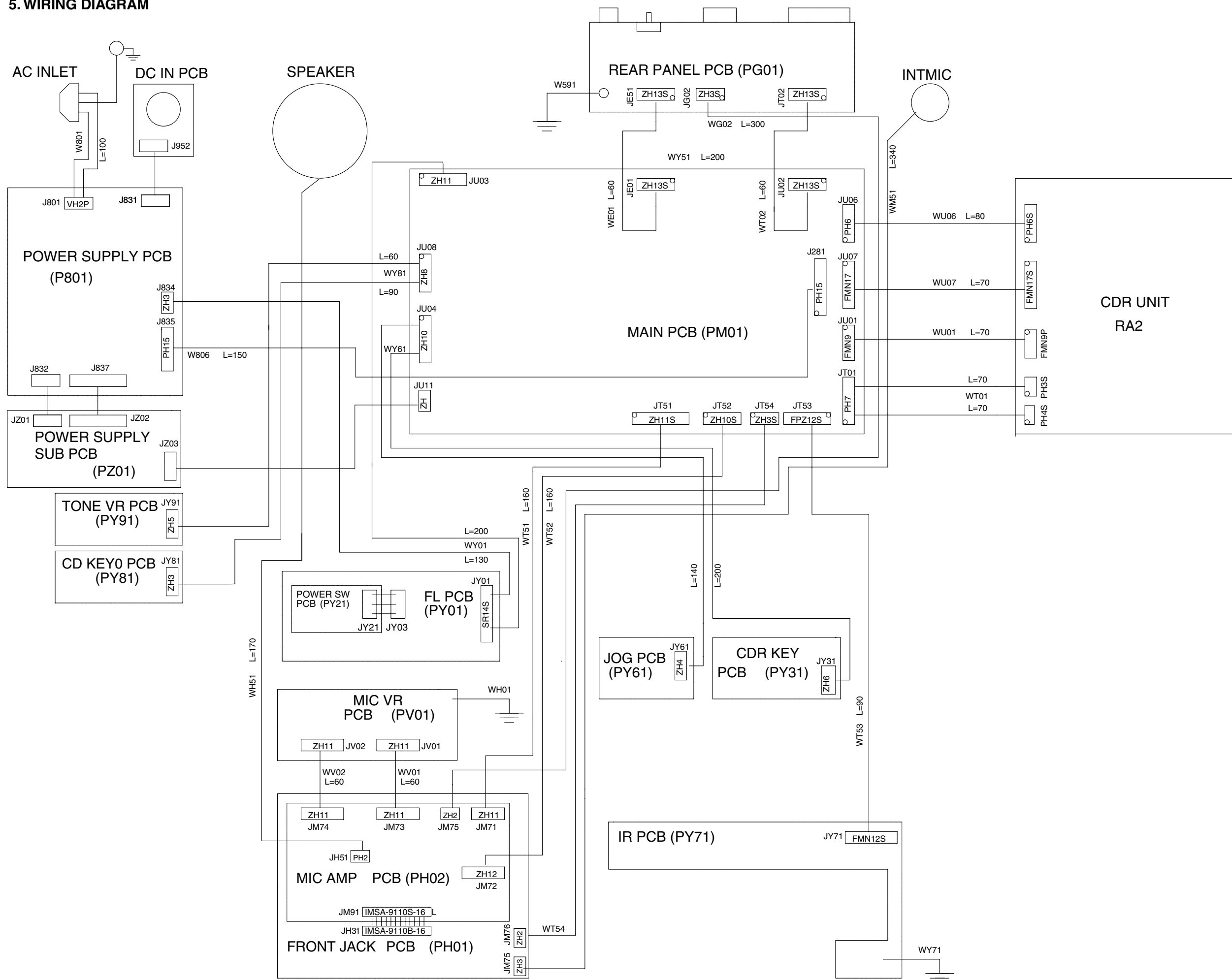
Once the unit turns into the service mode, EEPROM is cleared anyway so you entering this mode is not necessary to clear EEPROM.

RC300CDR

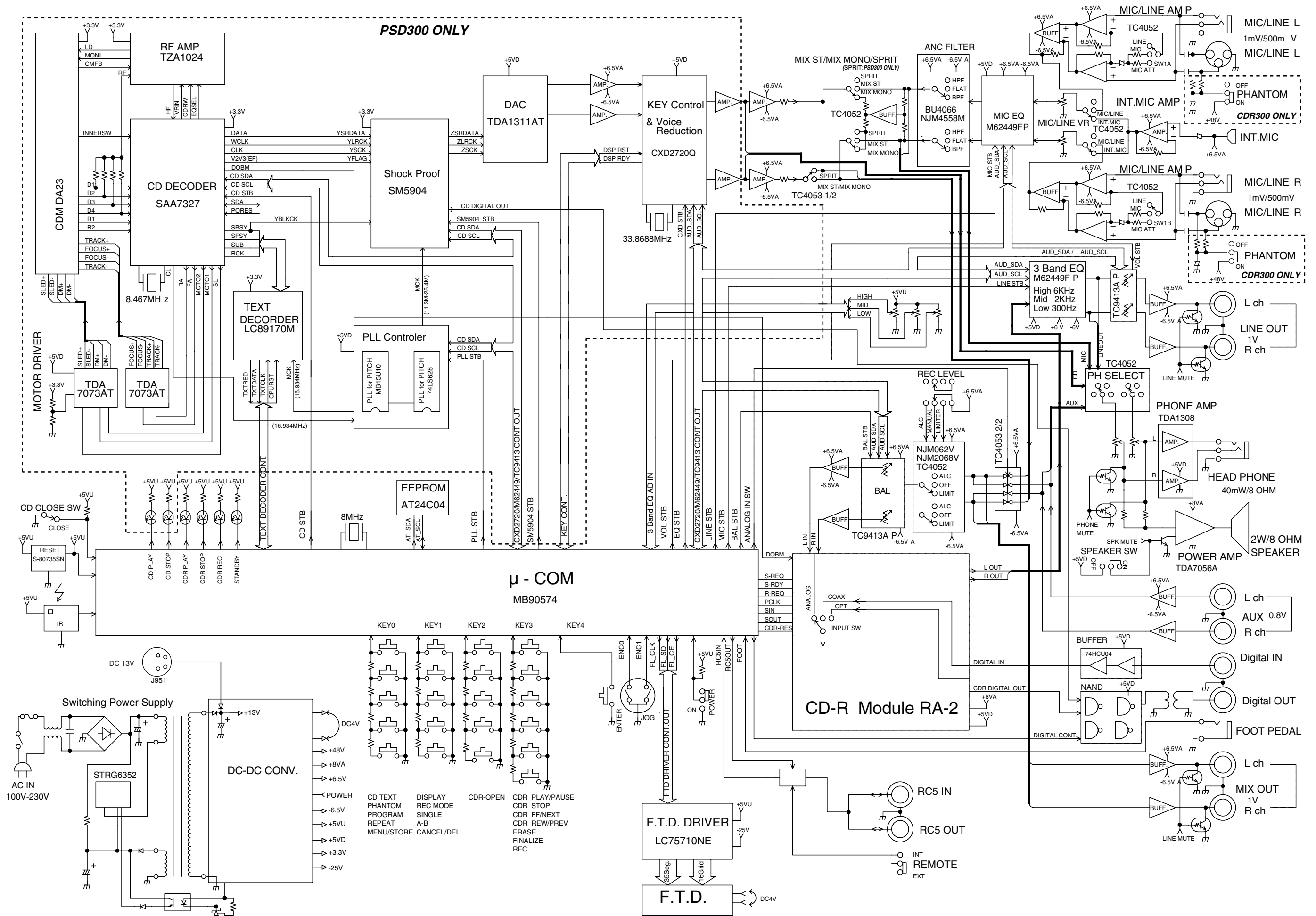
CDR MODE					
KEY	CODE	KEY	CODE	KEY	CODE
CDR	26:6300	DISPLAY	26:1100	STOP	26:5400
1	26:0100	TEMPO RESET	26:3700	PLAY	26:5300
2	26:0200	PROG	26:4100	REW	26:5000
3	26:0300	TEXT	26:1500	FF	26:5200
4	26:0400	SINGLE	26:5911	AMS	26:4300
5	26:0500	VR	26:6700	PAUSE	26:4800
6	26:0600	KEY #	26:6800	REPEAT	26:2900
7	26:0700	KEY \flat	26:6900	CAN/DEL	26:4900
8	26:0800	TEMPO +	26:3800	MEN/STO	26:8200
9	26:0900	TEMPO -	26:3900	A-B	26:5900
0	26:0000	PREV	26:3300	TR. INC	26:: 400
EJECT	26:4500	NEXT	26:3200	REC	26:5500

For ENTER and POWER buttons, remote code will not be displayed and the button function will be performed.

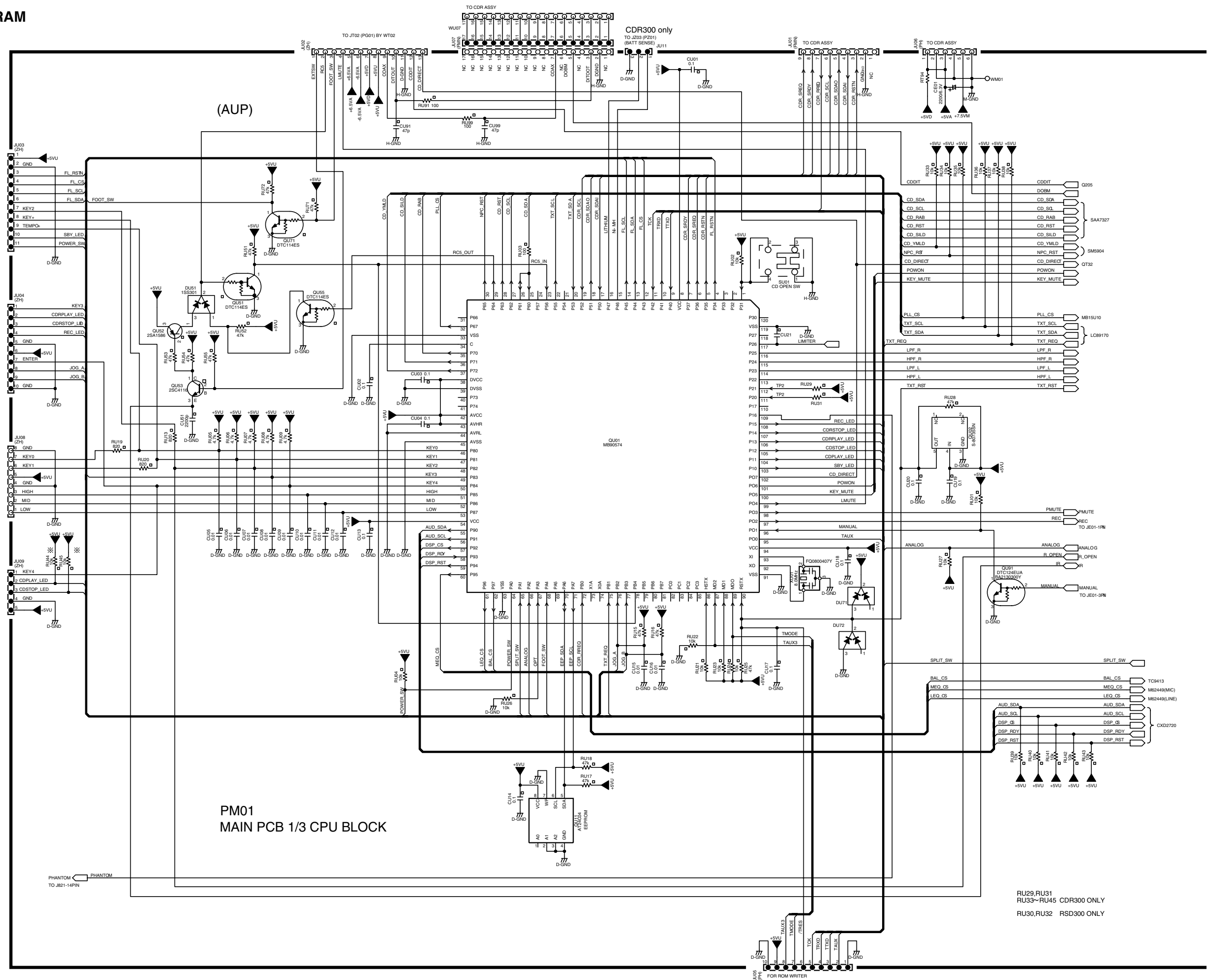
5. WIRING DIAGRAM

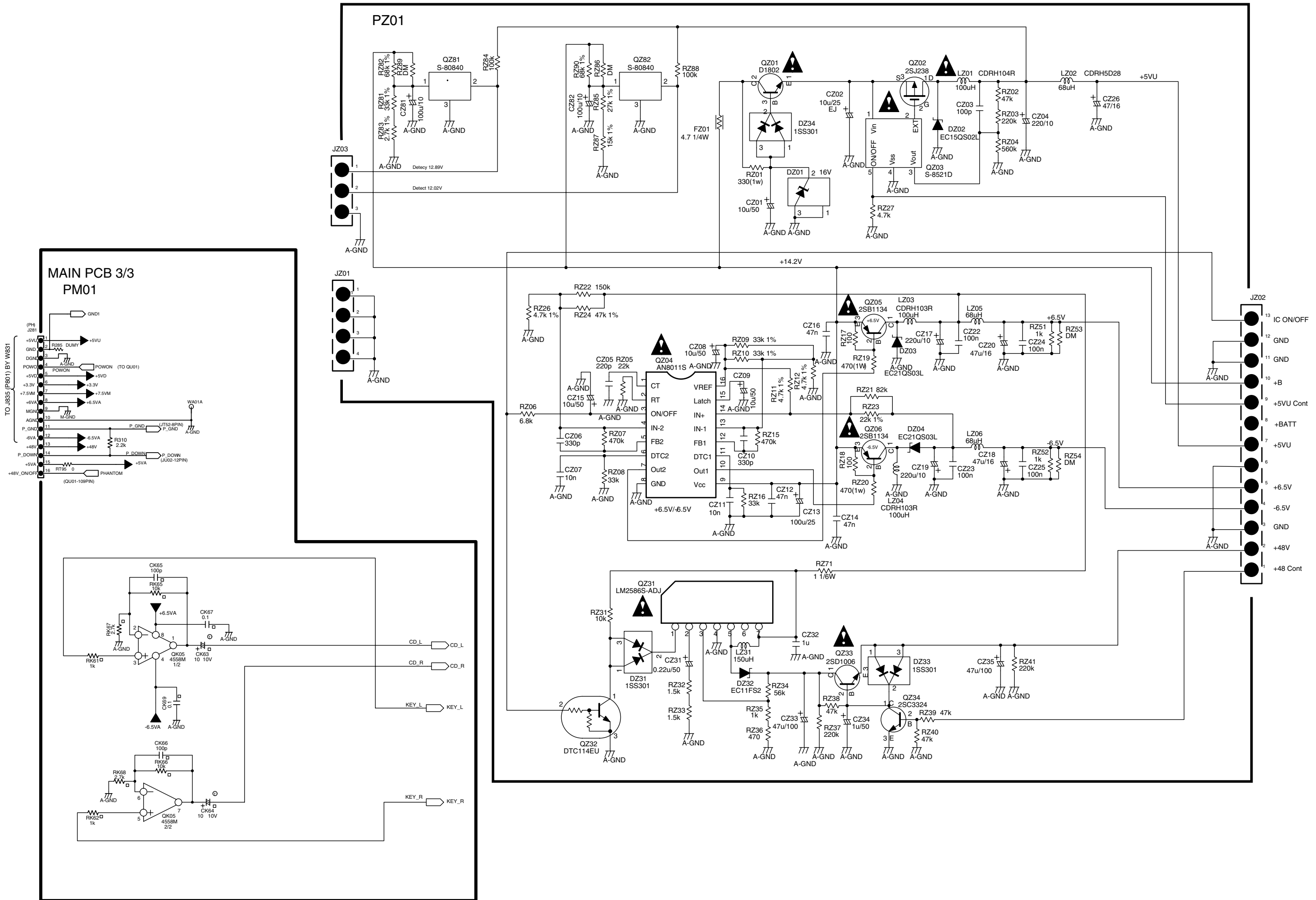


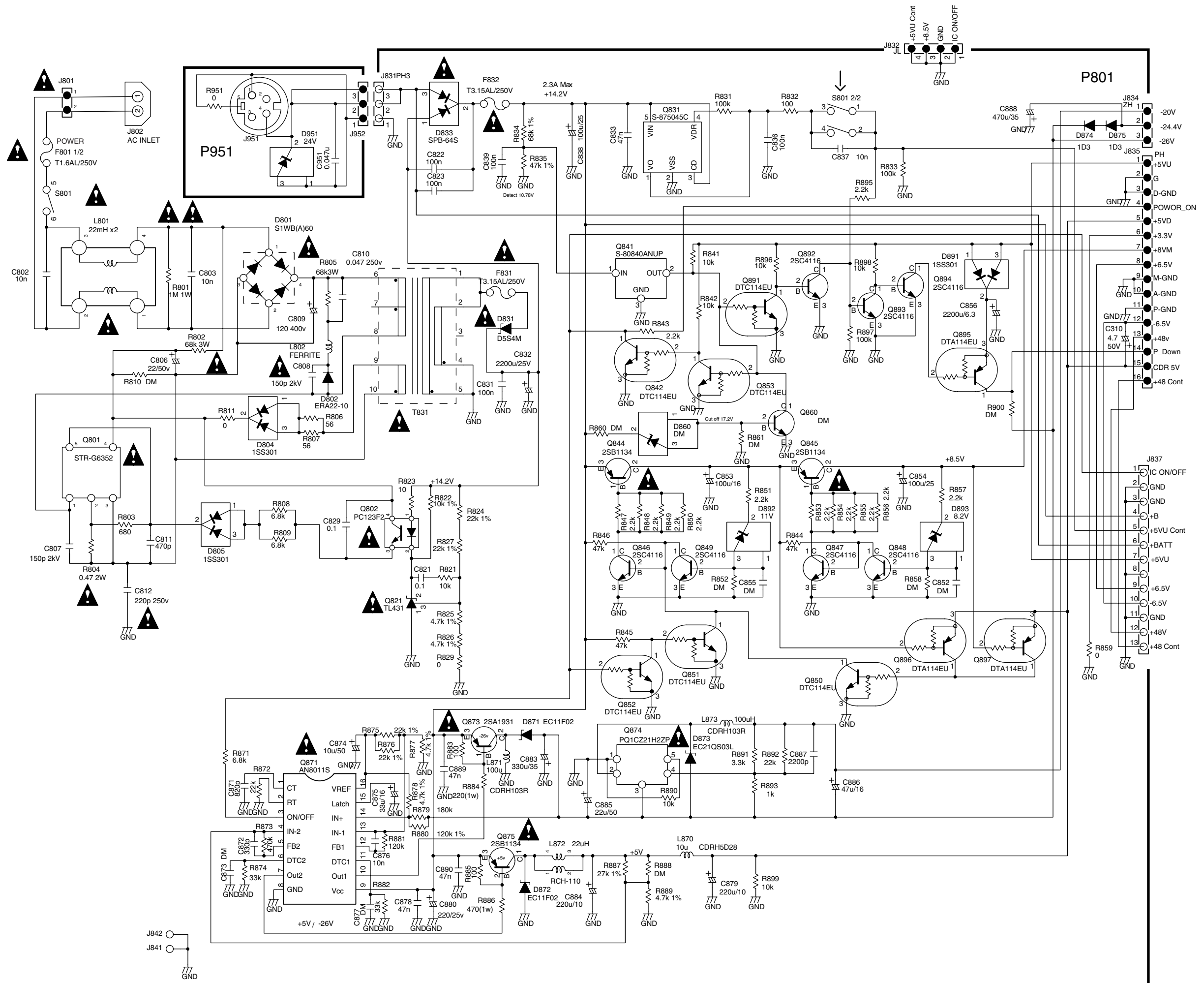
6. BLOCK DIAGRAM

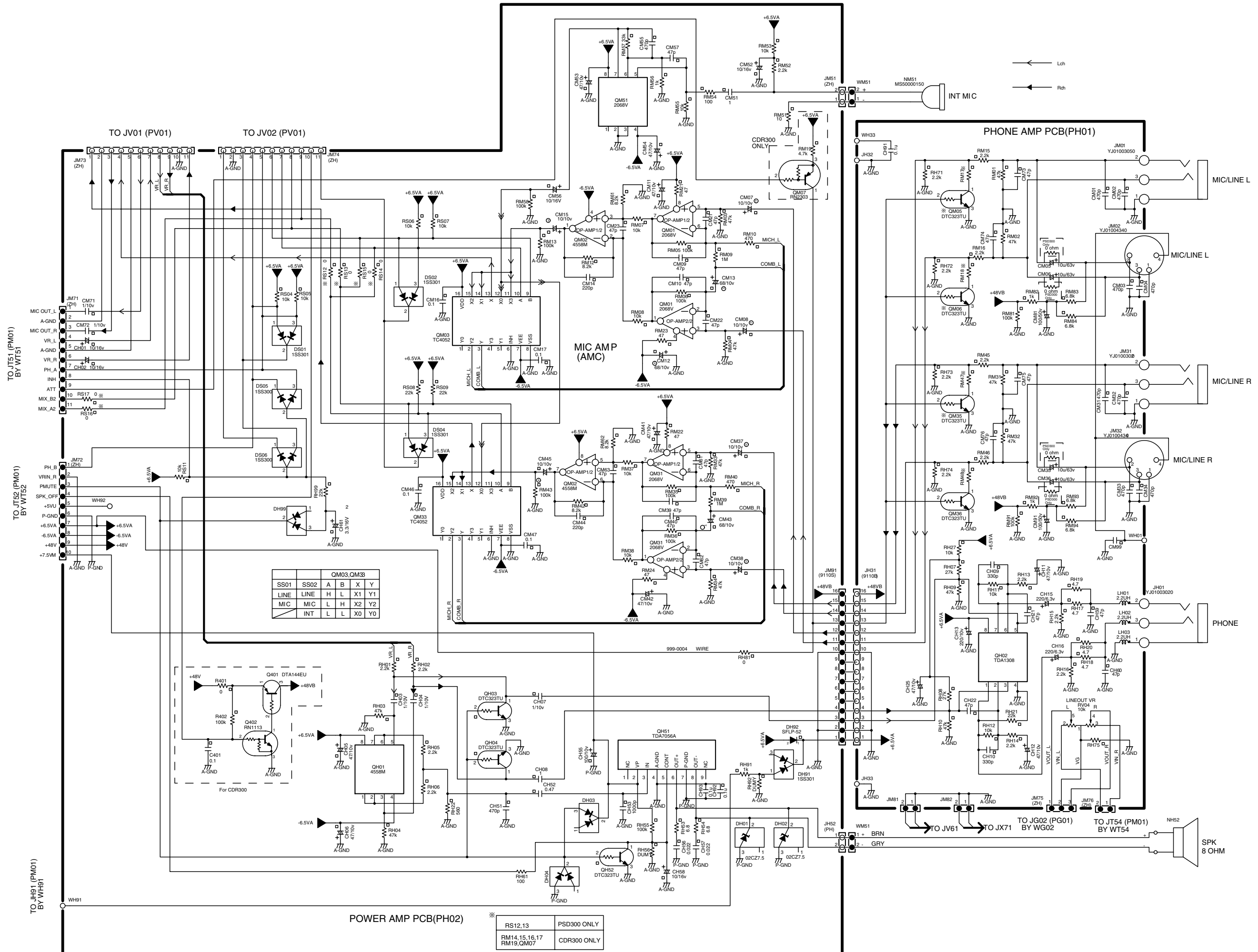


7. SCHEMATIC DIAGRAM



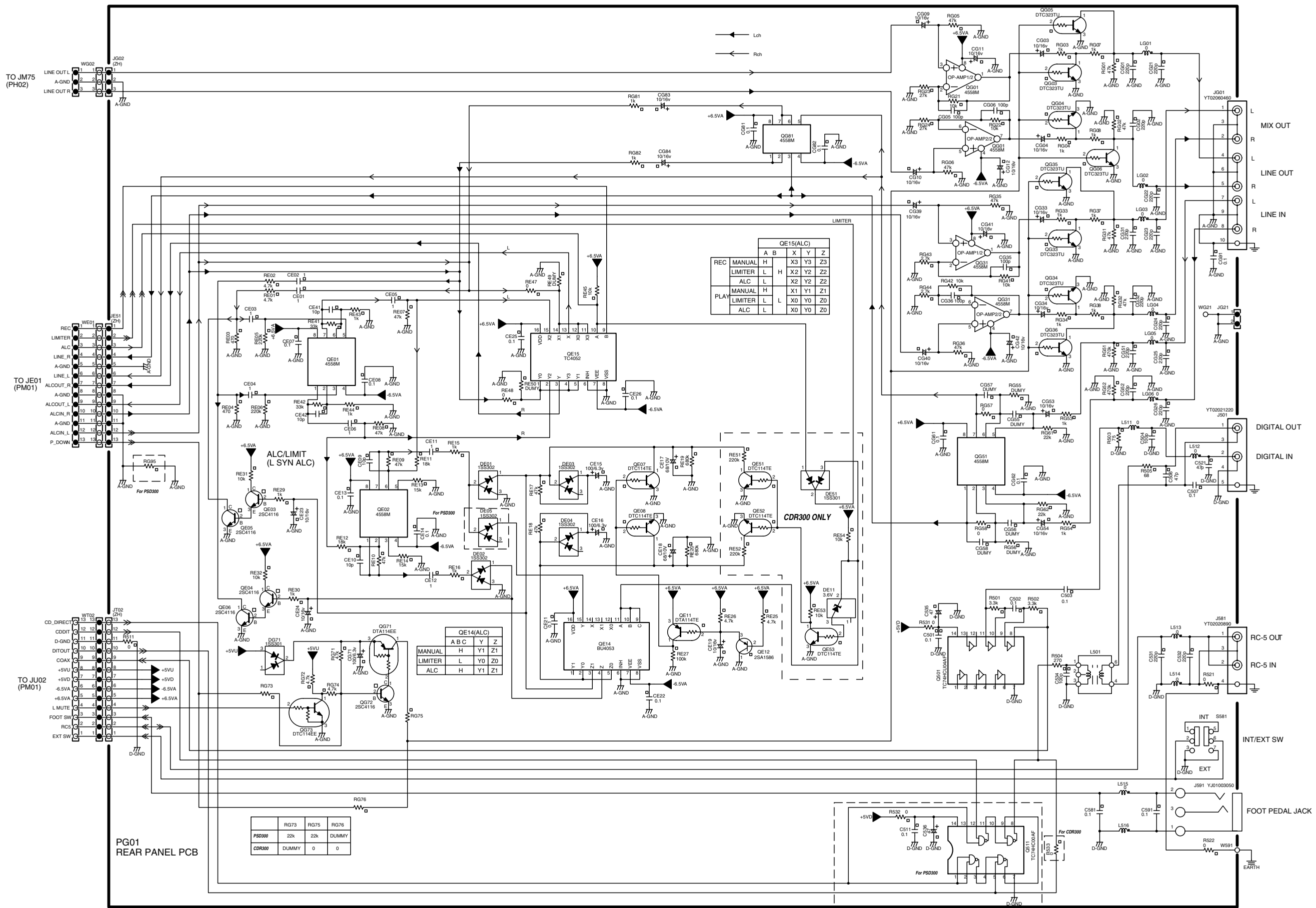


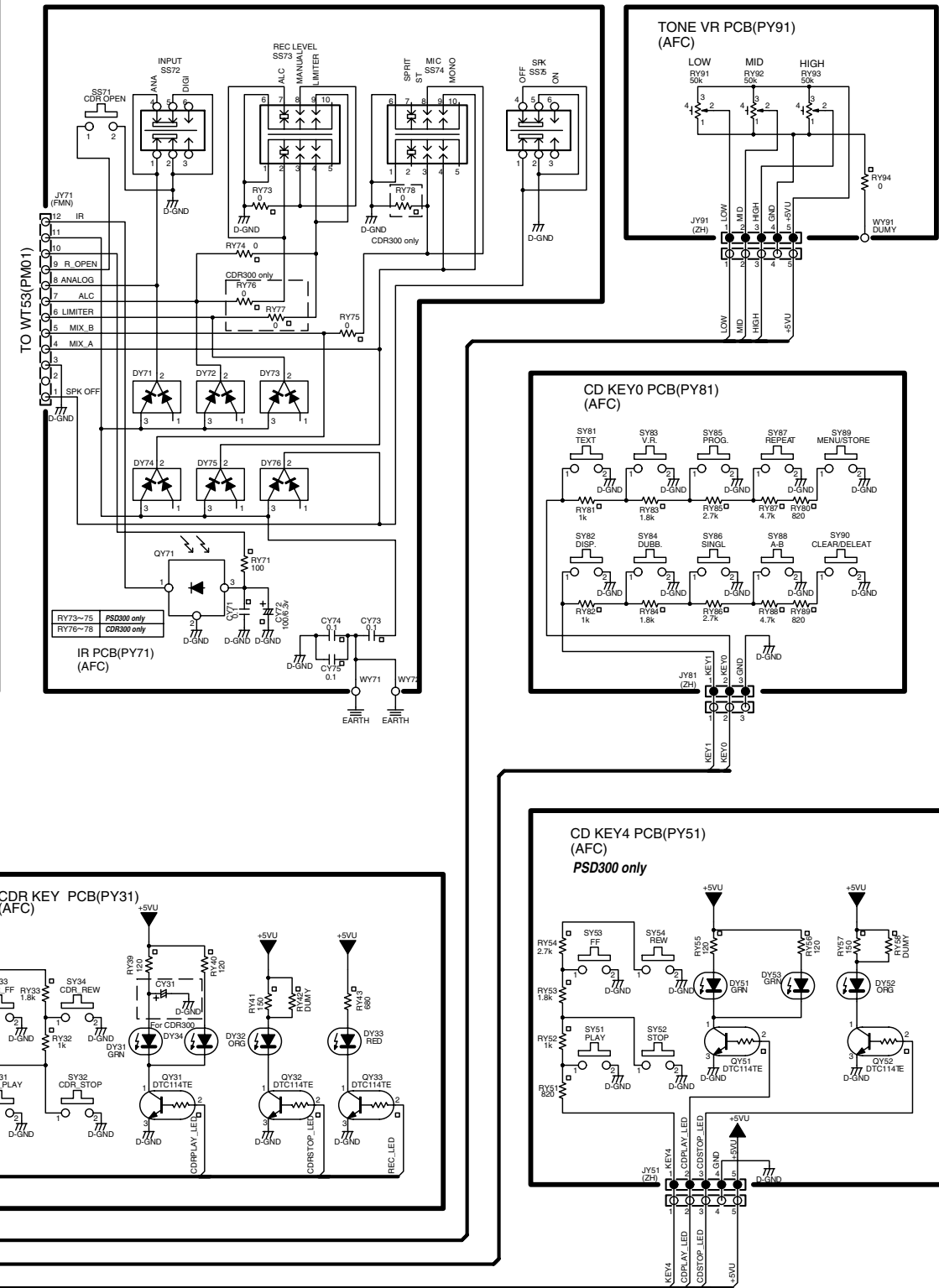
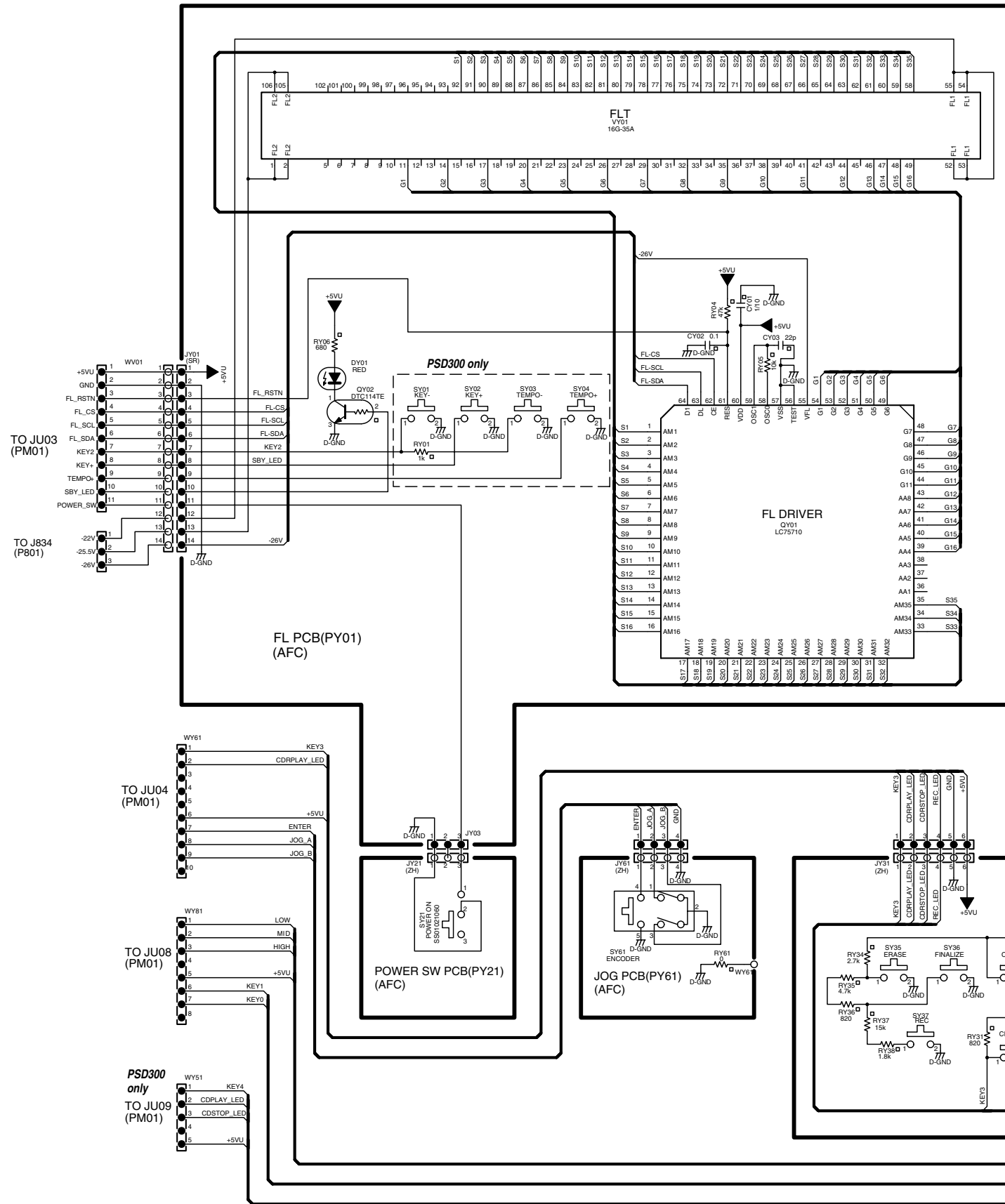


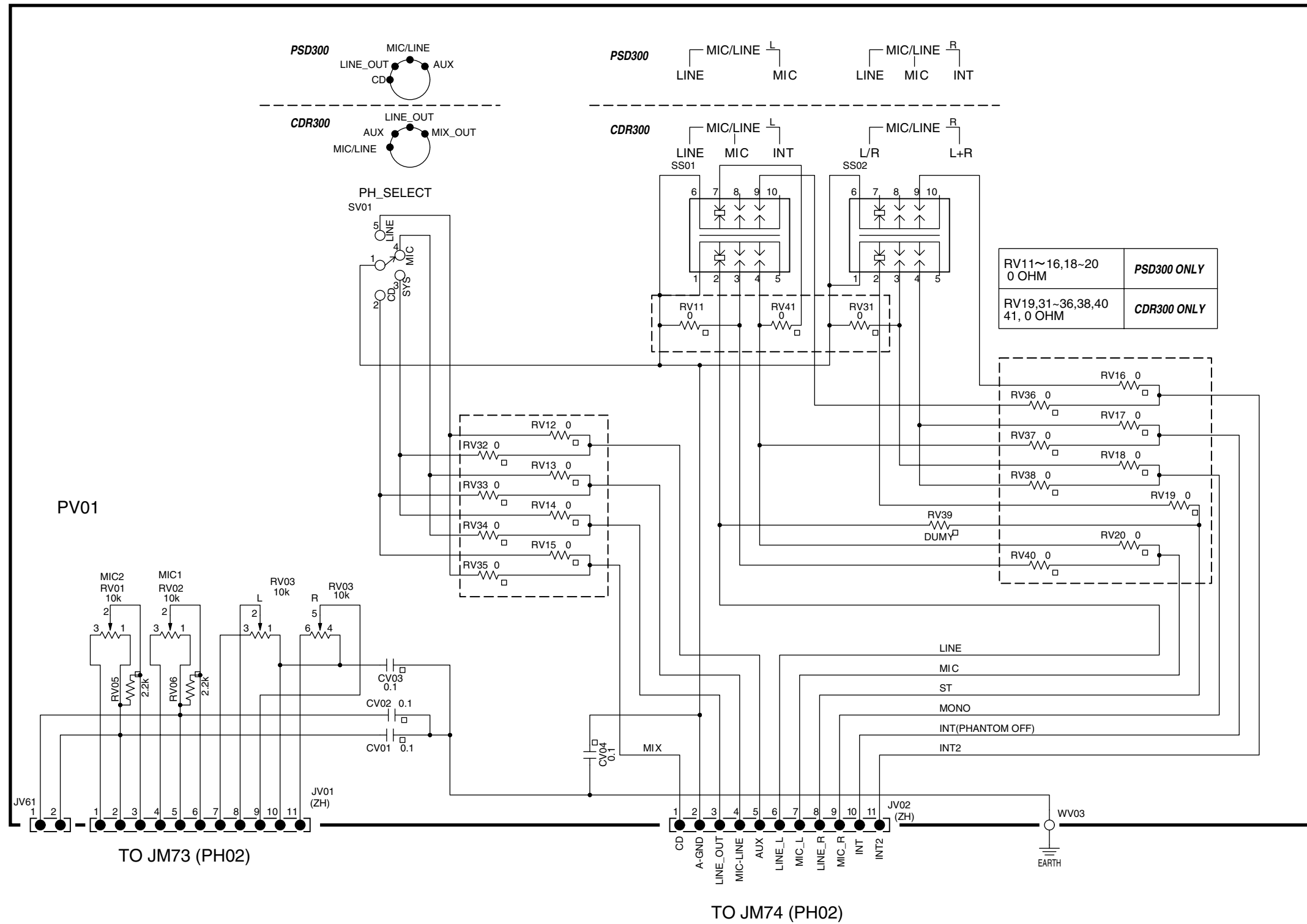


		QM03, QM38					
SS01	SS02	A	B	X	Y		
LINE	LINE	H	L	X1	Y1		
MIC	MIC	L	H	X2	Y2		
INT	INT	L	L	X0	Y0		

RS12,13	PSD300 ONLY
RM14,15,16,17 RM19, QM07	CDR300 ONLY



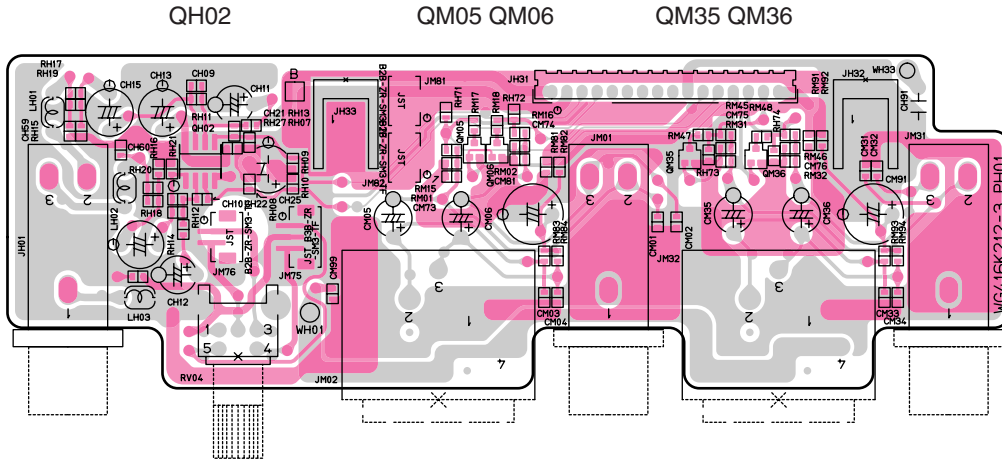




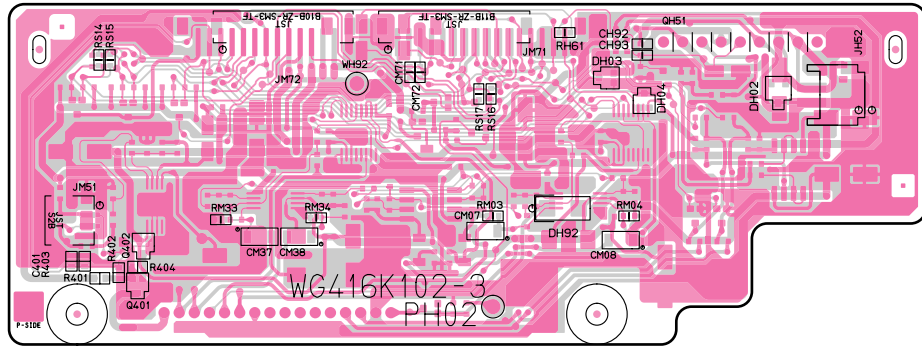
RV11~16,18~20 0 OHM	PSD300 ONLY
RV19,31~36,38,40 41, 0 OHM	CDR300 ONLY

8. PARTS LOCATION

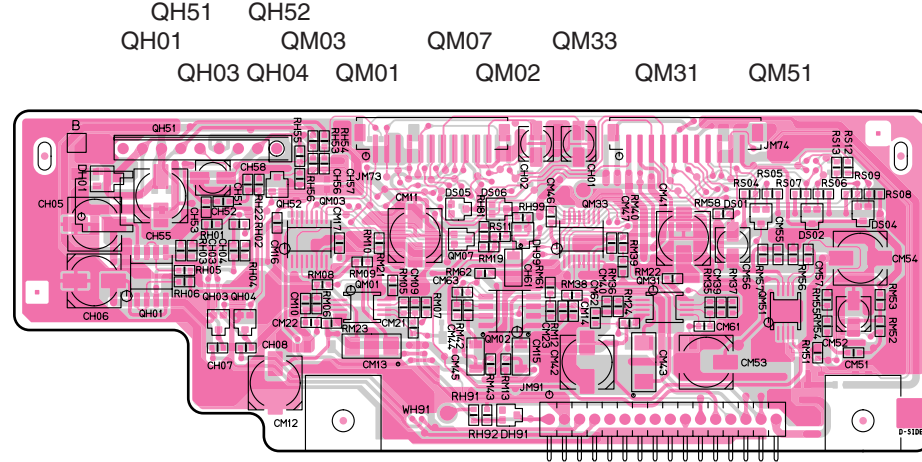
PH01



PH02 A

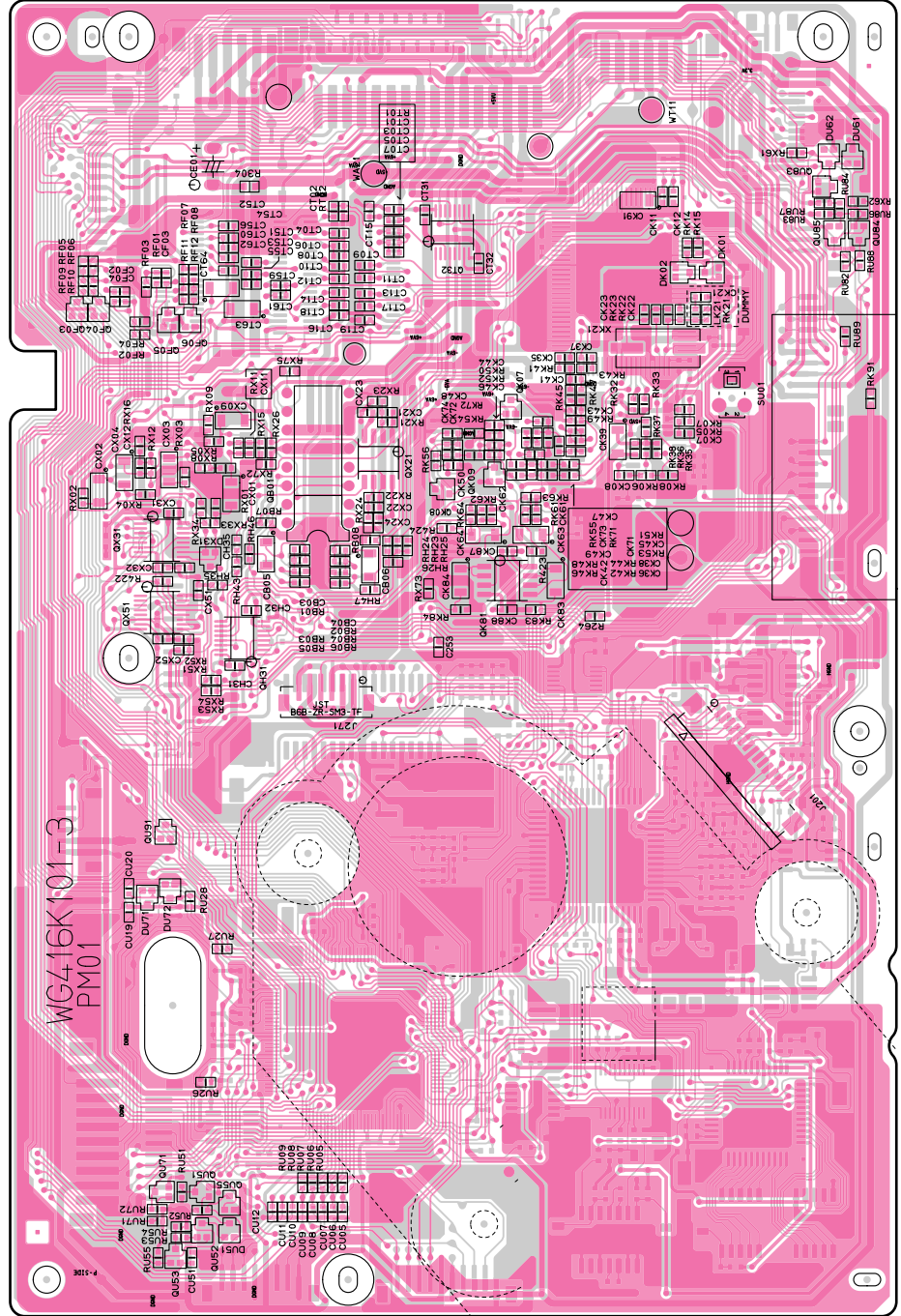


PH02 B



PM01 A

QU71
QU53 QU91
QU52 QU51
QU55



QF03
QF04

QX51 QX31 QF05
QF06

QH31

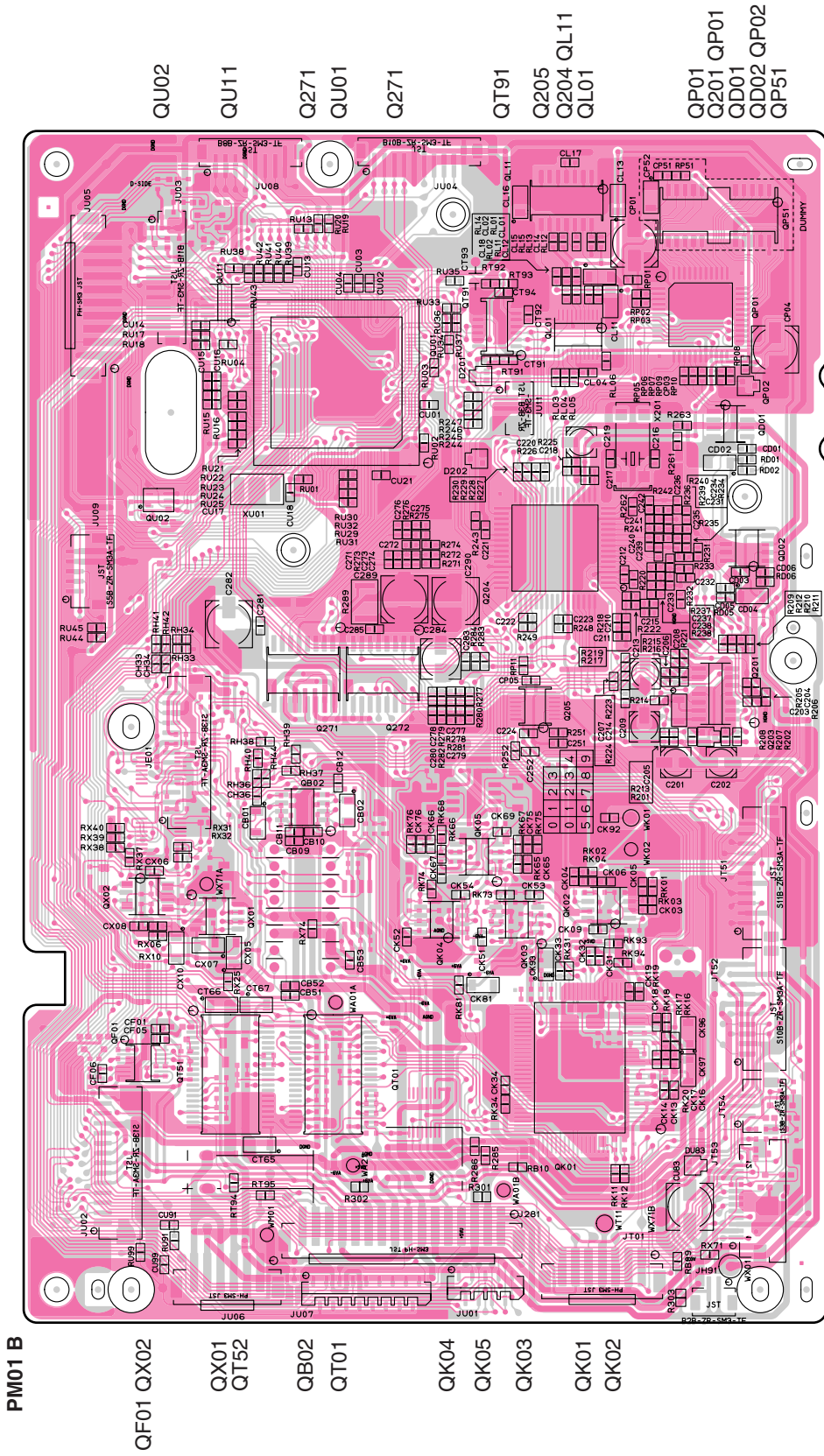
QB01

QX21

QK08
QT32
QK81 QK09
QK07

QU85 QU83
QU84

WG416K101-3
PM01



PM01 B

QF01 QX02

QX01
QT52

QB02
QT01

QK04
QK05

QK03
QK01

QK02

QU02

QU11

Q271

QU01

Q271

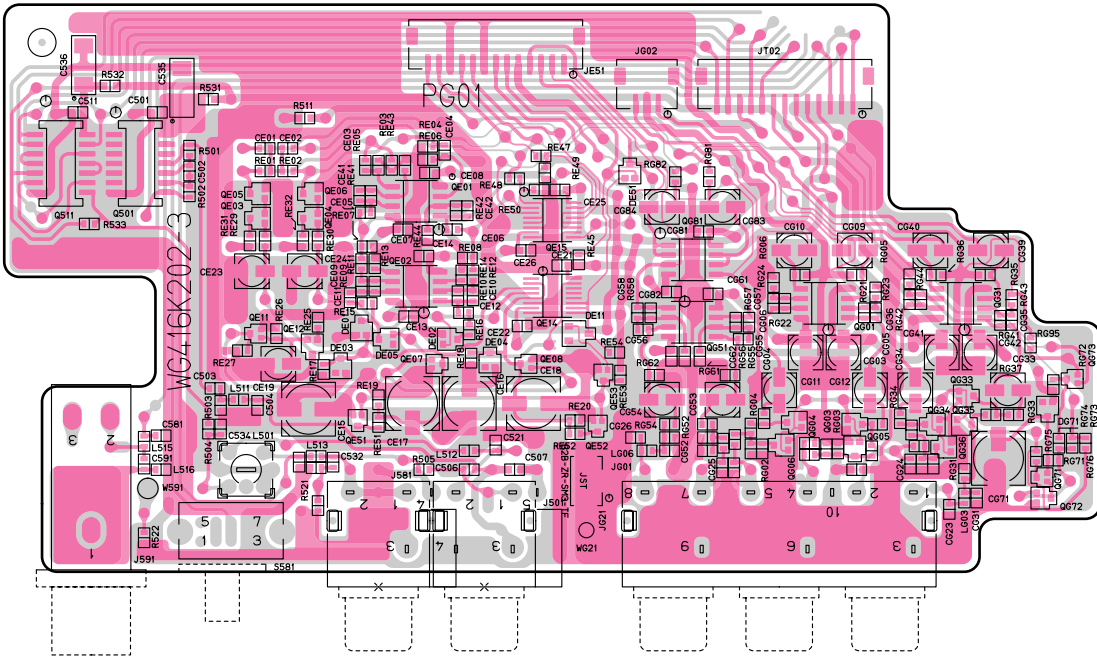
QT91

Q205
Q204 QL11
QL01

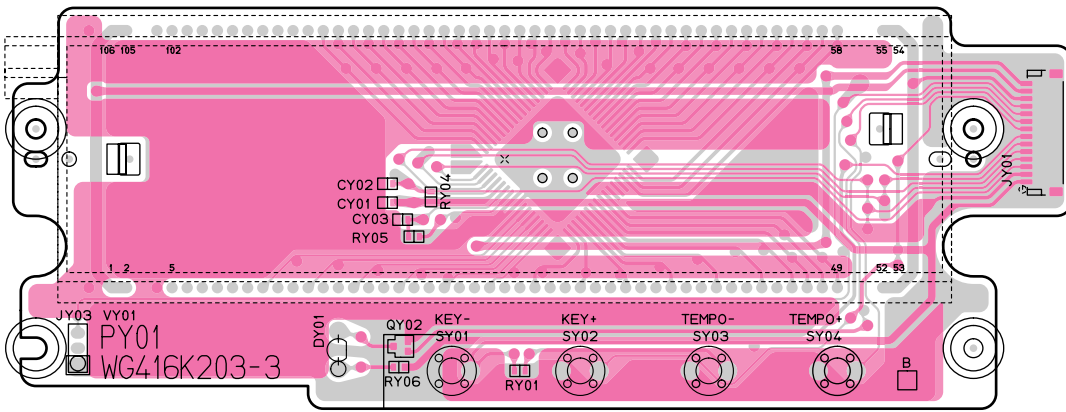
QP01
Q201 QP01
QD01
QD02 QP02
QP51

PG01

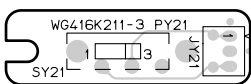
Q511 Q501 QE03 - QE06 QE01 QE15 QG81
 QE11 QE12 QE02 QE14 QG51 QG01 QG31
 QE07 QE08 QE53 QG03 - QG06 QG71 - QG73
 QE52 QG33 - QG36



PY01

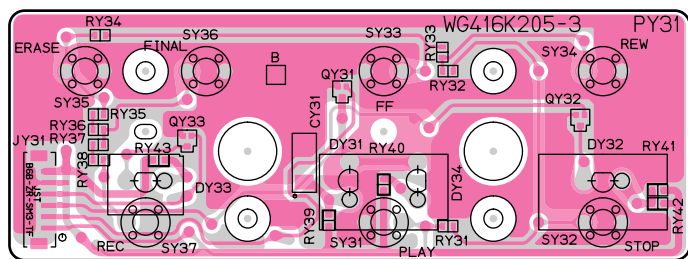


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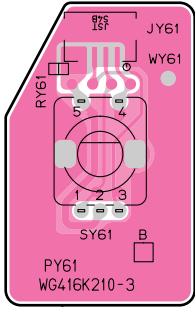


PY31

QY33 QY31 QY32



PY61

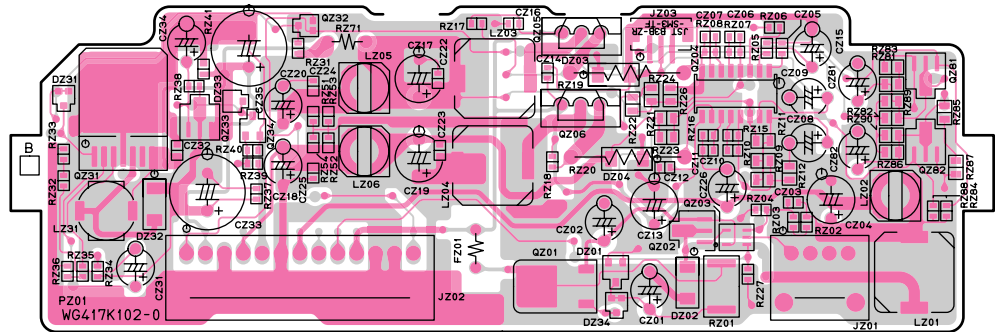


PZ01

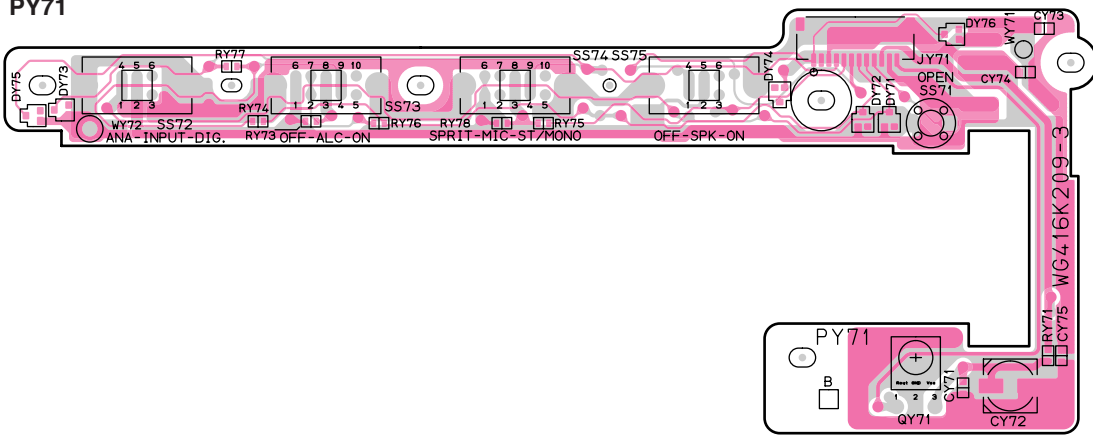
QZ32 QZ31 QZ32 QZ34

QZ05 QZ06 QZ01 QZ02

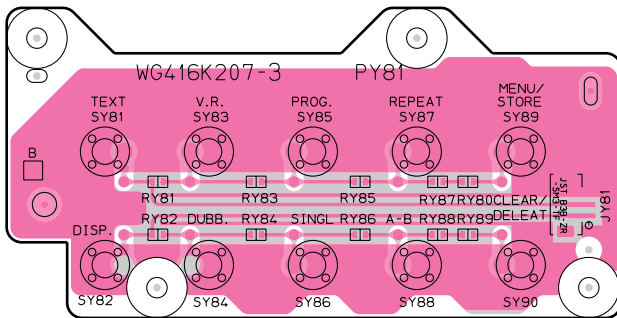
QZ81 QZ82



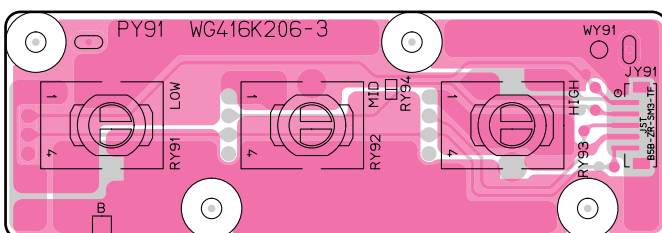
PY71



PY81

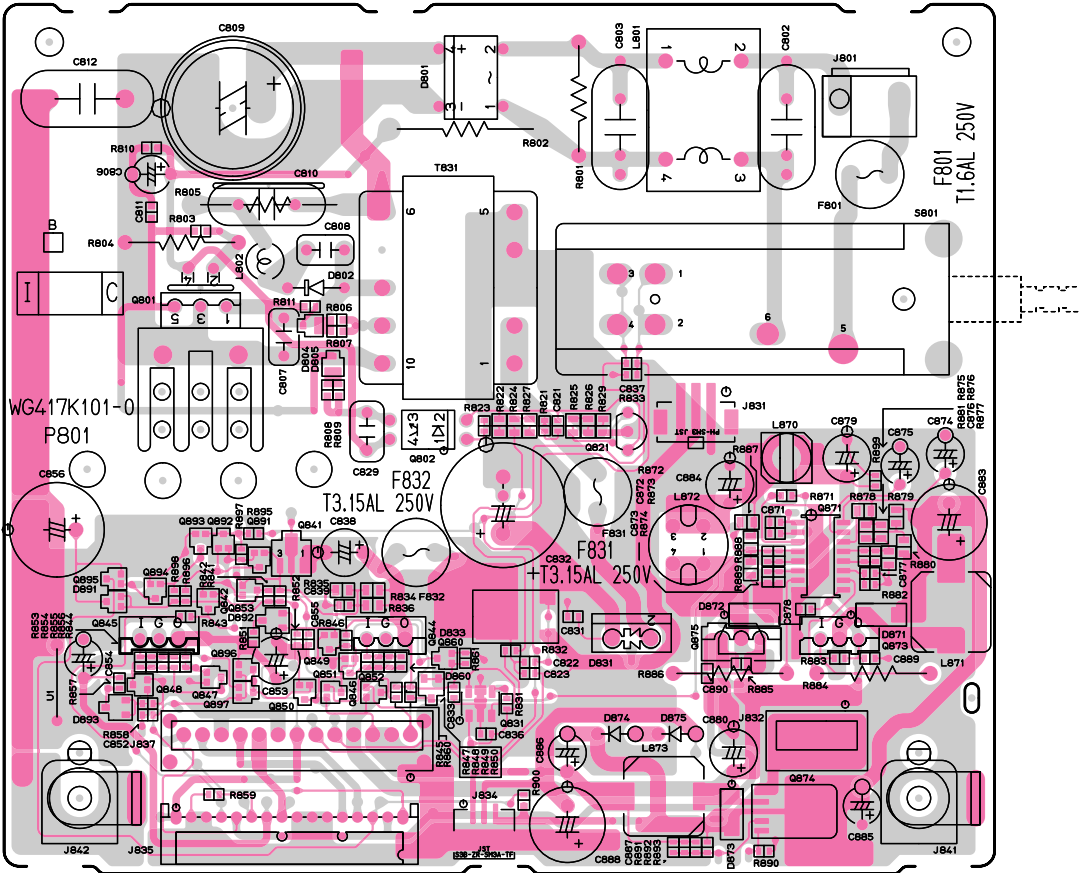


PY91

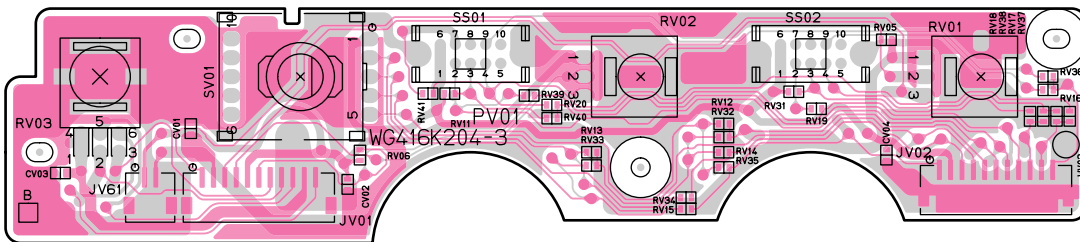


P801

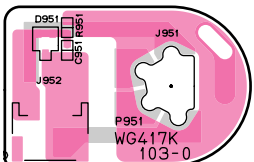
Q801 Q802 Q821 Q871
 Q891 - Q893 Q841
 Q895 Q894 Q842 Q853
 Q845 Q849 Q844 Q875 Q873
 Q848 Q847 Q850 Q851 Q852 Q831 Q874



PV01



P951

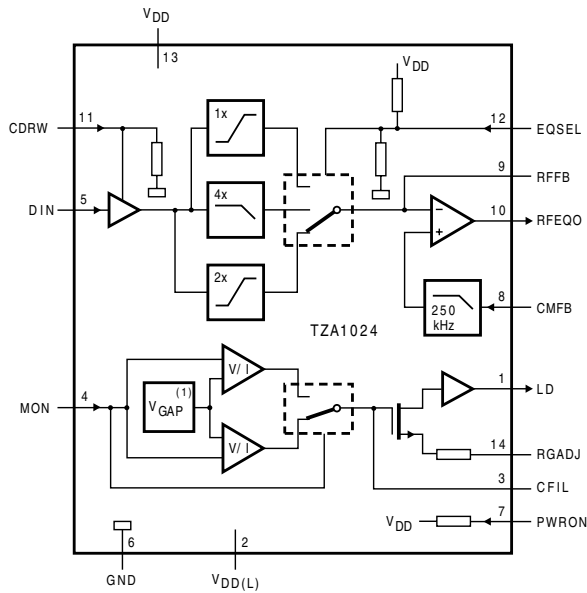


9. MICROPROCESSOR AND IC DATA

Q201 : TZA1024

Pin Description

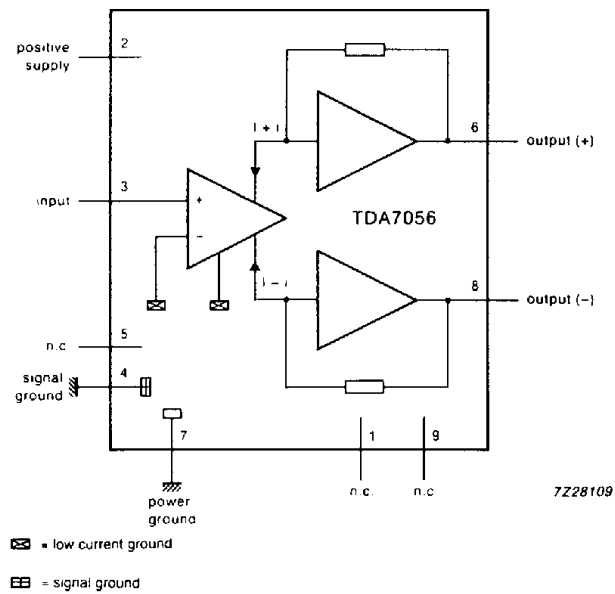
SYMBOL	PIN	DESCRIPTION
LD	1	current output to laser diode
VDD(L)	2	laser supply voltage
CFIL	3	external filter capacitor
MON	4	laser monitor diode input
DIN	5	central diode input
GND	6	ground
PWRON	7	power-on select input
CMFB	8	common mode feedback voltage input
RFFB	9	external RF feedback resistor
RFEQO	10	RF amplifier output
CDRW	11	gain select input for CD-A/V, CD-R/W
EQSEL	12	equalizer/speed select input (n=1,2or 4)
VDD	13	supply voltage
RGADJ	14	external laser supply gain adjust resistor



QH51 : TDA7056

Pin Description

PIN	DESCRIPTION
1	n.c.
2	VP
3	input (+)
4	signal ground
5	n.c.
6	output (+)
7	power ground
8	output (-)
9	n.c.



7Z28109

QU01: MB90F574A

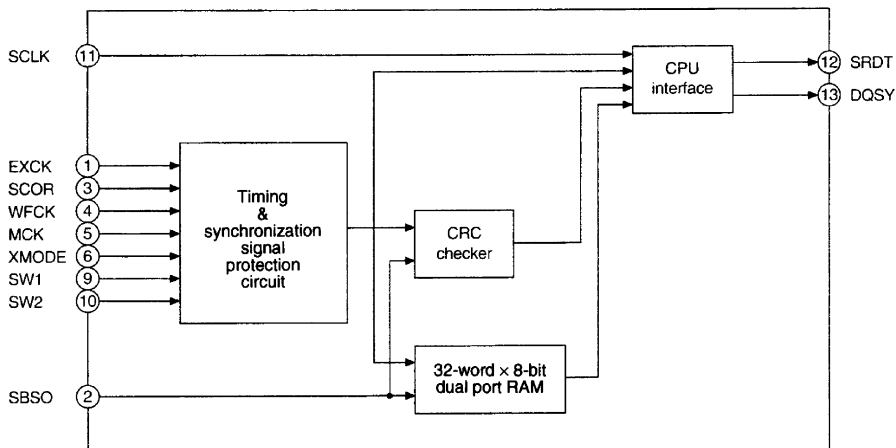
Pin Description

Pin	PORT	Pin name	I/O	DESCRIPTION	
1	P31/RD	CD_LID	I	CD Lid Switch	Close:Low Open:High
2	P32/WRL	Battery	I		
3	P33/WRH	N.C	I		
4	P34/HRQ	FL_RSTN	O	Reset Signal to FL Driver (LC75710NE)	Active Low
5	P35/HAK	CDR_RSTN	O	CDR Reset Signal	Active Low
6	P36/RDY	CDR_SREQN	O	Command Request Signal to CDR	Active Low
7	P37/CLK	CDR_SRDYN	O	1 Byte Latch Signal to CDR	Active Low
8	VCC	+5V			
9	P40/SIN0	TTXD	I	Connected to Flash Writer	
10	P41/SOT0	TRXD	O	Connected to Flash Writer	
11	P42/SCK0	TCK	I	Connected to Flash Writer	
12	P43/SIN1	FL_CS	O	Latch Signal to FL Driver (LC75710NE)	Active ↑
13	P44/SOT1	FL_SDA	O	Serial Data to FL Driver (LC75710NE)	LSB First
14	P45/SCK1	FL_SCL	O	Serial Clock to FL Driver (LC75710NE)	Max 1MHz
15	P46/PPG0	Battery NicdHM	I	Battery Empty	Low : Empty
16	P47/PPG1	Battery LITHUM	I	Battery Empty	Low : Empty
17	P50/SIN2	CDR_SDAI	I	Serial Data from CDR	LSB First
18	P51/SOT2	CDR_SDAO	O	Serial Data to CDR	LSB First
19	P52/SCK2	CDR_SCL	I	Serial Clock Input from CDR	Typ. 100kHz
20	P53/SIN3	TXT_SDA	I	Serial Data from CD-TEXT Decoder(LC89170M)	LSB First
21	P54/SOT3	N.C	I		
22	P55/SCK3	TXT_SCL	O	Serial Clock to CD-TEXT Decoder(LC89170M)	Max 5MHz
23	P56/IN0	RC5_IN	I	RC5 IR and Bus Input	Active Low
24	P57/IN1	N.C	I		
25	P60/SIN4	CD_SDAI	I	Serial Data Input from CD10/SM5902	Those 2 ports are wired logical OR and CD_SDAO is used for data input port for uCom
26	P61/SOT4	CD_SDAO	I/O	Serial Data Output to CD10/SM5902/MB15U10	
27	P62/SCK4	CD_SCL	O	Serial Clock to CD10/SM5902/MB15U10	Max ≅ 700kHz
28	P63/CKOT	CD_RST	O	Serial Clock to CD10	Active Low
29	P64/OUT0	RC5_OUT	O	RC5 Bus Output	
30	P65/OUT1	NPC_RST	O	Serial Clock to SM5902	Active Low
31	P66/OUT2	N.C	I		
32	P67/OUT3	PLL_CS	O	Latch Signal to MB15U10	Active ↑
33	VSS	GNDD			
34	C	C			
35	P70	CD_RAB	O	Latch Signal to CD10 Decoder Part	Active High
36	P71	CD_SILD	O	Latch Signal to CD10 Servo Part	Active ↓
37	P72	CD_YMLD	O	Latch Signal to SM5902	Active ↓
38	DVCC	+5V			
39	DVSS	GNDD			
40	P73/DA0	N.C	I		
41	P74/DA1	N.C	I		
42	AVCC	+5VA			
43	AVRH	+5VA			
44	AVRL	GNDA			
45	AVSS	GNDA			
46	P80/AN0	KEY0	I	Key0 Analog Input	
47	P81/AN1	KEY1	I	Key1 Analog Input	
48	P82/AN2	KEY2	I	Key2 Analog Input	
49	P83/AN3	KEY3	I	Key3 Analog Input	
50	P84/AN4	KEY4	I	Key4 Analog Input	
51	P85/AN5	EQ_HIGH	I	Volume Level (Analog) Input for EQ HIGH adjustment	
52	P86/AN6	EQ_MID	I	Volume Level (Analog) Input for EQ MID adjustment	
53	P87/AN7	EQ_LOW	I	Volume Level (Analog) Input for EQ LOW adjustment	
54	VCC	+5V			
55	P90/CS0	AUD_SDA	O	Serial Data to CXD2720Q/M62449FP/TC9413	LSB First
56	P91/CS1	AUD_SCL	O	Serial Clock to CXD2720Q/M62449FP/TC9413	Active ↑
57	P92/CS2	DSP_CS	O	Latch Signal to CXD2720Q	Active ↓
58	P93/CS3	DSP_RDY	I	READY Signal from CXD2720Q	Active ↓

59	P94/CS4	DSP_RST	O	Rest Signal to CXD2720Q	Active Low
60	P95/CS5	MEQ_CS	O	Latch Signal to M62449FP (for MIC)	Active ↑
61	P96/CS6	LEQ_CS	O	Latch Signal to M62449FP(for LINE)	Active ↑
62	P97/CS7	BAL_CS	O	Latch Signal to TC9413 for Rec Balance	Active ↑
63	VSS	GNDD			
64	PA0/AIN0/IRQ6	POWER_SW	I	Standby On/Off Switch	Active Low
65	PA1/BIN0	SPLIT_SW	I	Split On/Off Switch	Split On:HIGH Split Off:LOW
66	PA2/ZIN0	DIG_ANA_SW	I	External Input Select	ANALOG:LOW DIGITAL:HIGH
67	PA3/AIN1/IRQ7	COAX_OPT	I	External Input Select	COAX:LOW OPT:HIGH
68	PA4/BIN1	PEDAL_SW	I	Foot Pedal Switch Input	Set the status upon PLAY as default. Reversed on PAUSE. Returned on PLAY.
69	PA5/ZIN1	VOL_CS	I	Latch Signal to Line Out Volume (TC9413)	Active ↑
70	PA6/SDA	EEP_SDA	I/O	Serial Data from/to EEPROM	
71	PA7/SCL	EEP_SCL	O	Serial Clock to EEPROM	
72	PB0/IRQ0	CDR_RREQ	I	Interrupt Request Signal from CDR	Active ↓
73	X1A	N.C			
74	X0A	N.C			
75	PB1/IRQ1	TXT_REQ	I	Interrupt Request Signal for Read from CD-TEXT Decoder (LC89170M)	Active ↓
76	PB2/IRQ2	JOG_A	I	JOG_A Interrupt	Active ↑
77	PB3/IRQ3	JOG_B	I	JOG_B Interrupt	Active ↑
78	PB4/IRQ4	N.C	I		
79	PB5/IRQ5	N.C	I		
80	PB6/ADTG	N.C	I		
81	PB7	N.C	I		
82	PC0	N.C	I		
83	PC1	N.C	I		
84	PC2	N.C	I		
85	PC3	N.C	I		
86	HST	---			
87	MD2	TMODE			
88	MD1	---			
89	MD0	TAUX3			
90	RST	RESET			
91	VSS	GNDD			
92	X0	8MHz X'tal			
93	X1	8MHz X'tal			
94	VCC	+5V			
95	P00/AD00	TAUX		Connected to Flash Writer	
96	P01/AD01	POWON	O	Power On	Active High
97	P02/AD02	LINE_IN	O	Rec Source Analog Input Select	Low=LINE_IN, High=Internal
98	P03/AD03	PMUTE	O	Phone Mute	Active High
99	P04/AD04	LMUTE	O	Line Mute	Active High
100	P05/AD05	N.C	I		
101	P06/AD06	N.C	I		
102	P07/AD07	N.C	I		
103	P10/AD08	STB_LED	O	Standby LED	HIGH:Light ON LOW:Light OFF
104	P11/AD09	CD_PLAY_LED	O	CD Play LED	HIGH:Light ON LOW:Light OFF
105	P12/AD10	CD_STOP_LED	O	CD Stop LED	HIGH:Light ON LOW:Light OFF
106	P13/AD11	CDR_PLAY_LED	O	CDR Play LED	HIGH:Light ON LOW:Light OFF
107	P14/AD12	CDR_STOP_LED	O	CDR Stop LED	HIGH:Light ON LOW:Light OFF
108	P15/AD13	CDR_REC_LED	O	CDR Rec LED	HIGH:Light ON LOW:Light OFF
109	P16/AD14	N.C	I		
110	P17/AD15	N.C	I		
111	P20/A16	MODEL_0	I	Model Type	PSD2B:0 PSD2C:1
112	P21/A17	MODEL_1	I	Model Type	PSD2B:0 PSD2C:1
113	P22/A18	HPF_L	O	Lch Mic/Line High Pass Filter Select	Filter OFF:1 HPF ON:0 BPF ON:0
114	P23/A19	LPF_L	O	Lch Mic/Line Low Pass Filter Select	Filter:0 OFF HPF ON:0 BPF ON:1
115	P24/A20	HPF_R	O	Lch Mic/Line High Pass Filter Select	Filter OFF:1 HPF ON:0 BPF ON:0
116	P25/A21	LPF_R	O	Lch Mic/Line Low Pass Filter Select	Filter:0 OFF HPF ON:0 BPF ON:1
117	P26/A22	LIMITER	I	LIMITER SW	HIGH : OFF LOW : ON
118	P27/A23	N.C	I		
119	VSS	GNDD			
120	P30/ALE	N.C	I		

QT91 : LC89170M

Pin no.	Symbol	I/O	Function
1	EXCK	I/O	Subcode interface shift clock input and output
2	SBSO	I	Subcode interface data input
3	SCOR	I	Subcode interface block synchronization input
4	WFCK	I	Subcode interface frame synchronization input
5	MCK	I	Clock input (16.9344 MHz)
6	XMODE	I	System reset and low power mode
7	GND		Ground
8	TEST	I	Test pin (Must be connected to ground in normal operation.)
9	SW1	I	EXCK I/O setting (L: clock output, H: clock input)
10	SW2	I	EXCK clock output pulse width selection (L: double speed support, H: normal speed)
11	SCLK	I	Command interface shift clock input
12	SRDT	O	Command interface data output
13	DQSY	O	Command interface readout enable output
14	VDD		Power supply

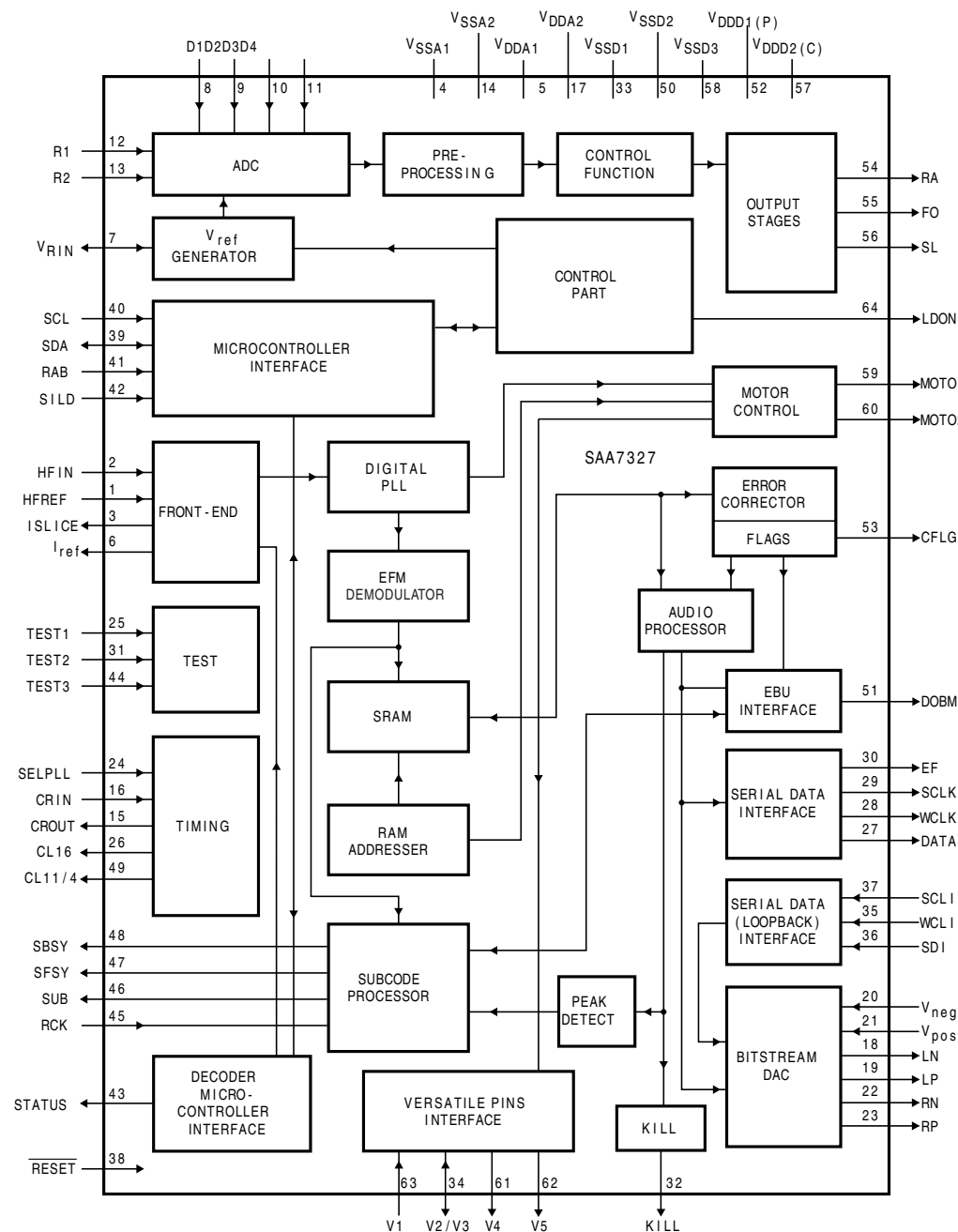


Q204: SAA7327

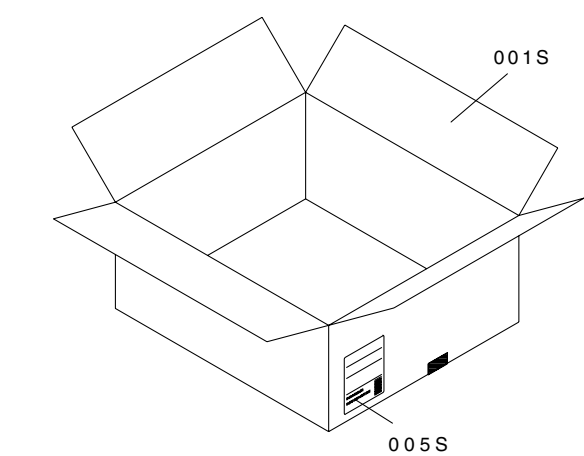
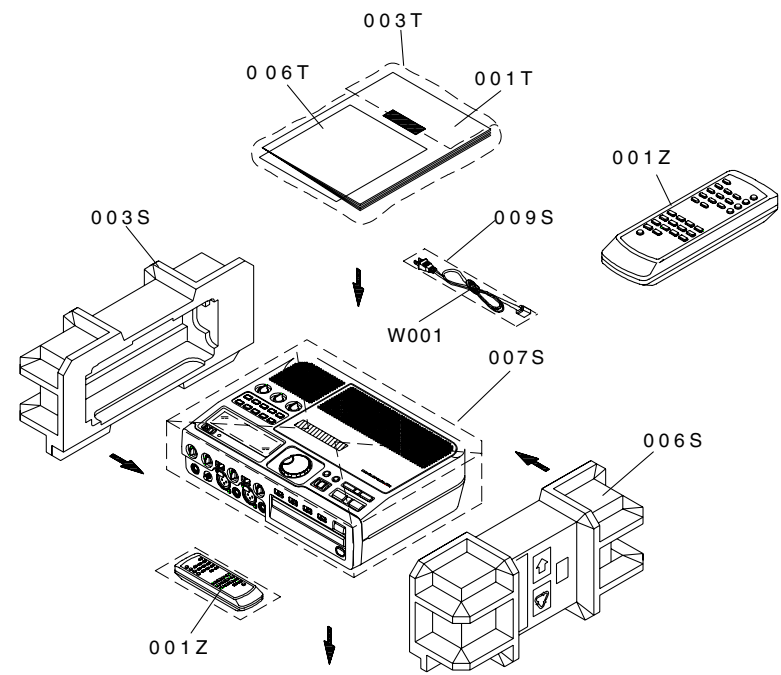
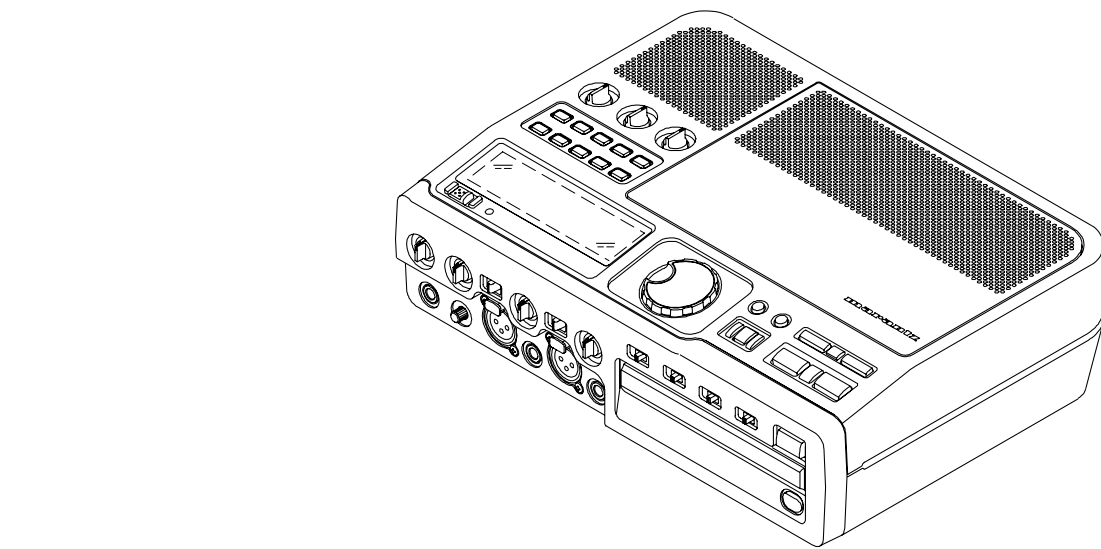
SYMBOL	PIN	DESCRIPTION
HFREF	1	comparator common mode input
HFIN	2	comparator signal input
ISLICE	3	current feedback output from data slicer
VSSA1	4(1)	analog ground1
VDDA1	5(1)	analog supply voltage 1
Iref	6	reference current output
VRIN	7	reference voltage for servo ADCs
D1	8	unipolar current input1 (central diode signal input)
D2	9	unipolar current input2 (central diode signal input)
D3	10	unipolar current input3 (central diode signal input)
D4	11	unipolar current input4 (central diode signal input)
R1	12	unipolar current input1 (satellite diode signal input)
R2	13	unipolar current input2 (satellite diode signal input)
VSSA2	14(1)	analog ground2
CROUT	15	crystal/resonator output
CRIN	16	crystal/resonator input
VDDA2	17(1)	analog supply voltage 2
LN	18	DAC left channel differential negative output
LP	19	DAC left channel differential positive output
Vneg	20	DAC negative reference input
Vpos	21	DAC positive reference input
RN	22	DAC right channel differential negative output
RP	23	DAC right channel differential positive output
SELPLL	24	selects whether internal clock multiplier PLL is used
TEST1	25	test control input 1 (this pin should be tied LOW)
CL16	26	16.9344MHz system clock output
DATA	27	serial4(1) data output (3-state)
WCLK	28	word clock output (3-state)
SCLK	29	serial bit clock output (3-state)
EF	30	C2error ag output (3-state)
TEST2	31	test control input 2 (this pin should be tied LOW)
KILL	32	kill output (programmable; open-drain)
VSSD1	33(1)	digital ground1
V2/V3	34	versatile/I/O: versatile input 2 or versatile output3 (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 (I2C-bus; open-drain output)
SCL	40	microcontroller interface clock line input (I2C-bus)
SYMBOL	PIN	DESCRIPTION
RAB	41	microcontroller interface R/W and load control line input (4-wire bus mode)
SILD	42	microcontroller interface 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	11.2896or 4.2336MHz (for microcontroller) clock output
VSSD2	50(1)	digital ground2
DOBM	51	bi-phase mark output (externally buffered; 3-state)
VDDD1(P)	52(1)	digital supply voltage 1 for periphery
CFLG	53	correction ag output (open-drain)
RA	54	radial actuator output
FO	55	focus actuator output
SL	56	sledge control output
VDDD2(C)	57(1)	digital supply voltage 2 for core
VSSD3	58(1)	digital ground3
MOTO1	59	motor output1; versatile (3-state)
MOTO2	60	motor output2; versatile (3-state)
V4	61	versatile output4
V5	62	versatile output5
V1	63	versatile input1
LDON	64	laser drive on output (open-drain)

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

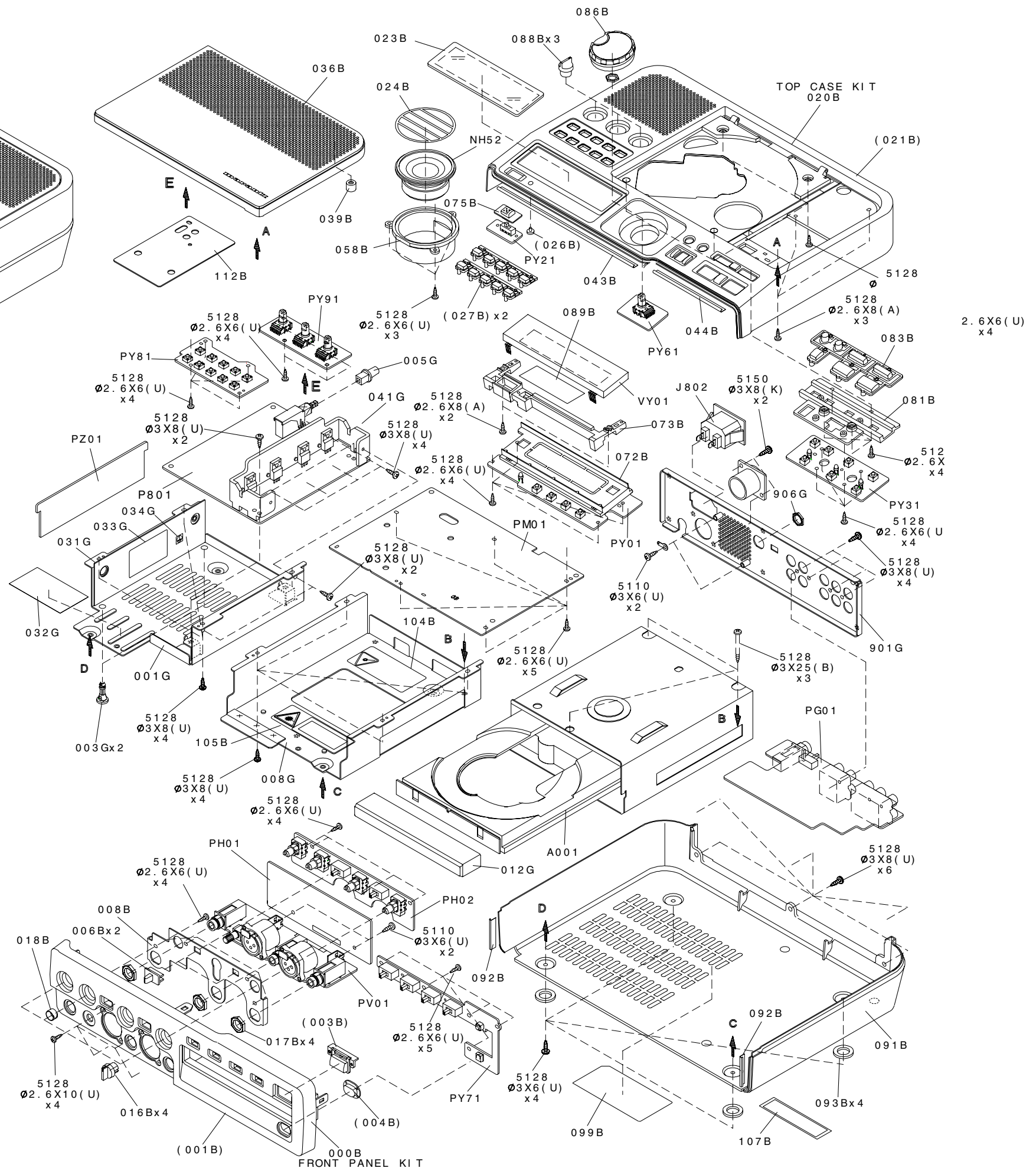


10. EXPLODED VIEW AND PARTS LIST



MARK	MATERIAL /FINISH
(U)	STEEL/ BLACK
(A), (B)	STEEL/ CHROMATE
(K)	STEEL/NICKEL

SYMBOL	STYLE	PARTS NAME
5110		+B .H .M .SCREW
5128		+B .H .TAP TITE SCREW (BTYPE)
51 50		+F .H .TAP TITE SCREW (BTYPE)
54 05		TOOTHED LOCK WASHERS



POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
001B		416K248110	FRONT PANEL	416K248110
003B		409S270030	CDR EJECT BUTTON	409S270030
004B		431T355010	LENS IR SENSER WINDOW	431T355010
006B		462T154010	SLIDE SW KNOB	462T154010
016B		350K154010	ROTARY VR KNOB	350K154010
017B		075S011010	PHONE JACK NUT	075S011010
018B		153T005010	CLAMPER SW KNOB SPRING	153T005010
021B		416K064110	TOP CASE	416K064110
023B		416K158110	FL WINDOW	416K158110
026B		238H355020	POWER LENS	238H355020
027B		378V270010	TEXT BUTTON	378V270010
036B		416K053030	TOP COVER	416K053030
075B		378V154260	POWER KNOB	378V154260
083B		378V270050	CDR MECH BUTTON	378V270050
086B		416K154010	ENCODER KNOB	416K154010
088B		350K154010	TONE VR KNOB	350K154010
091B		416K064120	BOTOM CASE	416K064120
093B		416K057010	LEG	416K057010
005G		058J270060	BUTTON POWER SW KNOB	058J270060
012G		416K053050	CDR MECH TRAY COVER	416K053050
A001		ZK416K0020	UNIT KIT CRD-RA2 AUDIO CDR UNIT SANYO	ZK416K0020
NH52		QK00502010	SPEAKER 5.0CM 3W C050K12A	QK00502010
NM51		MS50000150	MIC.UNIT ECM	MS50000150
▲ J802		YJ04002450	JACK 3P AC INLET M1910-D	YJ04002450
WT53		nsp	JUMPER LEAD FFC JT53-JY71 12P FRONT-IR	YU12090520
WU01		nsp	JUMPER LEAD FFC JU01-CDR UNIT 9P	YU09070520
WU07		nsp	JUMPER LEAD FFC JU07-CDR UNIT 17P	YU17070520
			PACKING	
001T		417K851010	USER GUIDE	417K851010
001Z		ZK417K0010	REMOTE CONTROLLER	ZK417K0010
▲ W001	/F		RC300CDR MAINS CORD 3P FOR F 7A 125V AC	ZC01801070
▲ W001	/N	ZC02003190	MAINS CORD 3P FOR N 10A 250V AC	ZC02003190
▲ W001	/U		MAINS CORD 3P FOR U 10A 125V AC	ZC01802110
			NOT STANDARD SPARE PARTS	
001S		nsp	PACKING CASE	417K801010
003S		nsp	CUSHION	416K809010
006S		nsp	CUSHION	416K809020
B001		nsp	BATTERY R6P KR CP-2	ZF23102000
W002		nsp	CONNECTIVE CORD RCA ST.CORD 1M	ZD01000330
W003		nsp	CONNECTIVE CORD RCA ST.CORD 1M	ZD01000330

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

11. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
 R***: 2) GD05 × × × 160, 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) DD1 × × × × 370, 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) DK16 × × × 300, 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. (E), 6) FILM CAP. (F)

5) EA × × × × × 10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%
 ⑤ — Working voltage
 ⑥ — Capacity value

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) DF15 × × × 350 — Plastic film capacitor
 DF15 × × × 310 — One-way type, Mylar ±5% 50V
 DF16 × × × 310 — 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 (RI05, 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
NH05 × × × 140	RF25S × × × × ΩJ	(±5% 1/4W)
NH05 × × × 120	RF50S × × × × ΩJ	(±5% 1/2W)
NH85 × × × 110	RF73B2A × × × × ΩJ	(±5% 1/10W)
NH95 × × × 140	RF73B2E × × × × ΩJ	(±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
NF05 × × × 140	ERD-2FCJ × × ×	(±5% 1/4W)
RF05 × × × 140	ERD-2FCG × × ×	(±2% 1/4W)
NF02 × × × 140		
RF02 × × × 140		

* 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)
Q850 }		BA20035210	DIG. TRS DTC114EU	BA20035210
Q853				
▲ Q871		HC10173020	IC AN8011S-E1 DC/DC CONV. SOP16	HC10173020
▲ Q873		HT11931000	TRS. 2SA1931	HT11931000
▲ Q874		HC91915320	IC PQ1CZ21H2ZP SW REGULATOR SHARP	HC91915320
▲ Q875		HT211342B0	TRS. 2SB1134 S R	HT211342B0
Q891		BA20035210	DIG. TRS DTC114EU	BA20035210
Q892		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
Q893		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
Q894		HX300012A0	CHIP TRS. 2SC4081 Q R 2SC4116 Y GR	HX300012A0
Q895		BA10026210	DIG. TRS DTA114EU	BA10026210
Q896		BA10026210	DIG. TRS DTA114EU	BA10026210
Q897		BA10026210	DIG. TRS DTA114EU	BA10026210
P801-MISCELLANEOUS				
▲ F801		FS20160200	FUSE T1.6A 250V C1 372	FS20160200
▲ F831		FS20315200	FUSE 3.15A 250V SEMKO VDE	FS20315200
▲ F832		FS20315200	FUSE 3.15A 250V SEMKO VDE	FS20315200
▲ L801		LC22260130	LINE FILTER 22MHX2	LC22260130
L802		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
L870		LU83103030	CHIP INDUCTANCE CDRH5D28 10µH ±30%	LU83103030
L871		LU80104010	CHIP INDUCTANCE CDRH103R 100µH	LU80104010
L872		LC12230180	CHOKE COIL RCH-110-220M 22µH	LC12230180
L873		LU80104010	CHIP INDUCTANCE CDRH103R 100µH	LU80104010
▲ S801		SP02012310	PUSH SWITCH SDDFE10100 POWER	SP02012310
▲ T831		TS12900070	MAINS TRANSF. ER28S SW TRANS FOR CDR300	TS12900070
P951-DC JACK CIRCUIT BOARD				
C951	nsp		CER. CHIP 0.047µF	DK98473300
D951		HZ30022050	CHIP DIODE 02CZ24Y	HZ30022050
J951		YP10004080	PLUG NC4MDL-1	YP10004080
PG01-LINE IN/OUT CIRCUIT BOARD				
PG01-CAPACITORS				
CE01	nsp		CER. CHIP 1µF 10V F	DK98105200
C501	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C502	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C503	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C504	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
C506	nsp		CER. CHIP 47pF ±5% CG 50V	DD95470300
C507	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C511	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
C521	nsp		CER. CHIP 47pF ±5% CG 50V	DD95470300
C531	nsp		CER. CHIP 220pF ±5% CG 50V	DD95221300
C532	nsp		CER. CHIP 220pF ±5% CG 50V	DD95221300
C534	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
C591	nsp		CER. CHIP 0.01µF	DK98103300
CE02 }	nsp		CER. CHIP 1µF 10V F	DK98105200
CE06				
CE07	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE08	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE09	nsp		CER. CHIP 10pF ±0.5pF CH 50V	DD91100300
CE10	nsp		CER. CHIP 10pF ±0.5pF CH 50V	DD91100300
CE11	nsp		CER. CHIP 1µF 10V F	DK98105200
CE12	nsp		CER. CHIP 1µF 10V F	DK98105200
CE13	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE14	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CE15 }		EY10701020	ELECT. CHIP 100µF 10V	EY10701020
CE19				
CE21	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE22	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE23	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CE24	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CE25	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE26	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CE41	nsp		CER. CHIP 10pF ±0.5pF CH 50V	DD91100300
CE42	nsp		CER. CHIP 10pF ±0.5pF CH 50V	DD91100300
CG01	nsp		CER. CHIP 220pF	DK96221300
CG02	nsp		CER. CHIP 220pF	DK96221300
CG03	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG04	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG05	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CG06	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CG09				
CG12	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG21				
CG26	nsp		CER. CHIP 220pF ±5% CG 50V	DD95221300
CG31	nsp		CER. CHIP 220pF ±5% CG 50V	DD95221300
CG32	nsp		CER. CHIP 220pF ±5% CG 50V	DD95221300
CG33	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG34	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG35	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CG36	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
CG39				
CG42	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG51	nsp		CER. CHIP 220pF	DK96221300
CG52	nsp		CER. CHIP 220pF	DK96221300
CG53	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG54	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG61	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CG62	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CG71	EY10700620		ELECT. CHIP 100µF 6.3V	EY10700620
CG81	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CG82	nsp		CER. CHIP 0.1µF GRM39F104Z16	DK98104200
CG83	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG84	EY10601620		ELECT. CHIP 10µF 16V	EY10601620
CG91	nsp		CER. CHIP 0.1µF ±10% B 10V	DK96104200
PG01-RESISTORS				
R501	nsp		CHIP 3.3kΩ ±5% 1/16W	NN05332610
R502	nsp		CHIP 3.3kΩ ±5% 1/16W	NN05332610
R503	nsp		CHIP 75Ω ±5% 1/16W	NN05750610
R504	nsp		CHIP 270Ω ±5% 1/16W	NN05271610
R505	nsp		CHIP 68Ω ±5% 1/16W	NN05680610
R521	nsp		CHIP 0Ω ±5% 1/16W	NN05000610
R522	nsp		CHIP 0Ω ±5% 1/16W	NN05000610
R531	nsp		CHIP 0Ω ±5% 1/16W	NN05000610
R532	nsp		CHIP 0Ω ±5% 1/16W	NN05000610
R533	nsp		CHIP 0Ω ±5% 1/16W	NN05000610
RE01	nsp		CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE02	nsp		CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE03	nsp		CHIP 470Ω ±5% 1/16W	NN05471610
RE04	nsp		CHIP 470Ω ±5% 1/16W	NN05471610
RE05	nsp		CHIP 220kΩ ±5% 1/16W	NN05224610
RE06	nsp		CHIP 220kΩ ±5% 1/16W	NN05224610
RE07				
RE10	nsp		CHIP 47kΩ ±5% 1/16W	NN05473610
RE11	nsp		CHIP 18kΩ ±5% 1/16W	NN05183610
RE12	nsp		CHIP 18kΩ ±5% 1/16W	NN05183610
RE13	nsp		CHIP 15kΩ ±5% 1/16W	NN05153610

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RE14		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610				PG01-SEMICONDUCTORS	
RE15		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	DE01				
RE16		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	}		HZ20018050	CHIP DIODE 1SS302	HZ20018050
RE17		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	DE04				
RE18		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	DE11		HZ30018050	CHIP DIODE 3.6V 02CZ3.6X	HZ30018050
RE19		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610	DE51		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
RE20		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610	DE71		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
RE25		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610					
RE26		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	Q501		HC700400Z0	IC CMOS 74HCU04 FLAT	HC700400Z0
RE27		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	QE01		HC10011090	IC NJM4558M Y	HC10011090
RE29		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QE02		HC10011090	IC NJM4558M Y	HC10011090
RE30		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QE03				
RE31		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	}		HX300012A0	CHIP TRS.	HX300012A0
RE32		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QE06			2SC4081 Q R 2SC4116 Y GR	
RE41		nsp	CHIP 56kΩ ±5% 1/16W	NN05563610	QE07		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000
RE42		nsp	CHIP 56kΩ ±5% 1/16W	NN05563610	QE08		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000
RE43		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QE11		BA12111000	DIG. TRS DTA114TE RN2111	BA12111000
RE44		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QE12		HX100012A0	CHIP TRS.	HX100012A0
RE45		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610				2SA1586 Y GR 2SA1576A Q R	
RE47		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	QE14		HC405321Y0	IC BU4053BCFV	HC405321Y0
RE48		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	QE15		HC705205Y0	IC TC74HC4052AFT	HC705205Y0
RE51		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610	QE51		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000
RE52		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610	QE52		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000
RE53		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QE53		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000
RE54		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RG01		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QG01		HC10011090	IC NJM4558M Y	HC10011090
RG02		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QG03				
RG03		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	}		BA20080210	DIG. TRS DTC323TU	BA20080210
RG04		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QG06				
RG05		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QG31		HC10011090	IC NJM4558M Y	HC10011090
RG06		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QG33				
RG07		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	}		BA20080210	DIG. TRS DTC323TU	BA20080210
RG08		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QG36				
RG21		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QG51		HC10011090	IC NJM4558M Y	HC10011090
RG22		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QG71		BA12102000	DIG. TRS RN2102 DTA114EEA	BA12102000
RG23		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QG72		HX300012A0	CHIP TRS.	HX300012A0
RG24		nsp	CHIP 27kΩ ±5% 1/16W	NN05273610				2SC4081 Q R 2SC4116 Y GR	
RG24		nsp	CHIP 27kΩ ±5% 1/16W	NN05273610	QG73		BA21102000	DIG. TRS DTC114EE RN1102	BA21102000
RG31		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QG81		HC10011090	IC NJM4558M Y	HC10011090
RG32		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610					
RG33		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610				PG01-MISCELLANEOUS	
RG34		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	J501		YT02021220	TERMINAL 14X14 RA 2L2P BLK	YT02021220
RG35		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	J581		YT02020890	TERMINAL 2P CINCH JACK	YT02020890
RG36		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	J591		YJ01003050	JACK 3.5 HEAD PHONE HLJ0521	YJ01003050
RG37		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	JG01		YT02060460	TERMINAL 14X14 RA 2L6P	YT02060460
RG38		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	L501		TP41042030	PULSE TRANSF.	TP41042030
RG41		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610				TPS247MN-0386AN)	
RG42		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	L511				
RG43		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	}		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RG44		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	L516				
					LG01				
					}		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RG51		nsp	CHIP 470kΩ ±5% 1/16W	NN05474610	LG06				
RG52		nsp	CHIP 470kΩ ±5% 1/16W	NN05474610	S581		SS02021470	SLIDE SWITCH SSSS92	SS02021470
RG53		nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610					
RG54		nsp	CHIP 5.6kΩ ±5% 1/16W	NN05562610					
RG57		nsp	CHIP 0Ω ±5% 1/16W	NN05000610				PH01-PHONE AMP	
RG58		nsp	CHIP 0Ω ±5% 1/16W	NN05000610				CIRCUIT BOARD	
RG61		nsp	CHIP 18kΩ ±5% 1/16W	NN05183610				PH01-CAPACITORS	
RG62		nsp	CHIP 18kΩ ±5% 1/16W	NN05183610	CH09		nsp	CER. CHIP 330pF ±5% CG 50V	DD95331300
RG71		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CH10		nsp	CER. CHIP 330pF ±5% CG 50V	DD95331300
RG72		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	CH11		nsp	ELECT. 47μF M 10V RA-2	OA47601020
RG74		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	CH12		nsp	ELECT. 47μF M 10V RA-2	OA47601020
RG75		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CH13		nsp	ELECT. 220μF M 10V RA-2	OA22701020
RG76		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CH15		nsp	ELECT. 220μF M 6.3V RA-2	OA22700620
RG81		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	CH16		nsp	ELECT. 220μF M 6.3V RA-2	OA22700620
RG82		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	CH21		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
					CH22		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
					CH25		nsp	ELECT. 47μF M 10V RA-2	OA47601020
					CH59		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
					CH60		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CM01		nsp	CER. CHIP 470pF	DK96471300				PH01-MISCELLANEOUS	
CM02		nsp	CER. CHIP 470pF	DK96471300	JH01		YJ01003020	JACK ST HEADPHONE BLK/GOLD	YJ01003020
CM03		nsp	CER. CHIP 470pF K 200V X7R	DK96471510	JM01		YJ01003050	JACK O3.5 HEAD PHONE HLJ0521	YJ01003050
CM04		nsp	CER. CHIP 470pF K 200V X7R	DK96471510	JM02		YJ01004340	JACK NC3FAH2 4P CANON TYPE	YJ01004340
CM05		EA10606310	ELECT. 10µF 63V	EA10606310	JM31		YJ01003050	JACK O3.5 HEAD PHONE HLJ0521	YJ01003050
CM06		EA10606310	ELECT. 10µF 63V	EA10606310	JM32		YJ01004340	JACK NC3FAH2 4P CANON TYPE	YJ01004340
CM31		nsp	CER. CHIP 470pF	DK96471300	LH01		LC12220190	CHOKO COIL LHLC06NB2R2M 2.2µH	LC12220190
CM32		nsp	CER. CHIP 470pF	DK96471300					
CM33		nsp	CER. CHIP 470pF K 200V X7R	DK96471510	LH02		LC12220190	CHOKO COIL LHLC06NB2R2M 2.2µH	LC12220190
CM34		nsp	CER. CHIP 470pF K 200V X7R	DK96471510					
CM35		EA10606310	ELECT. 10µF 63V	EA10606310	LH03		LC12220190	CHOKO COIL LHLC06NB2R2M 2.2µH	LC12220190
CM36		EA10606310	ELECT. 10µF 63V	EA10606310					
CM73		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300				PH02-POWER AMP CIRCUIT BOARD PH02-CAPACITORS	
CM74		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	CH01		EY10601620	TANTL. CHIP 10µF 16V	EY10601620
CM75		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	CH02		EY10601620	ELECT. CHIP 10µF 16V	EY10601620
CM76		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	C401		nsp	CER. CHIP 0.1µF 50V F C1608JF1H104Z	DK98104300
CM81		nsp	ELECT. 100µF M 50V RA-2	OA10705020	CH03		nsp	CER. CHIP 1µF 10V F	DK98105200
CM91		nsp	ELECT. 100µF M 50V RA-2	OA10705020	CH04		nsp	CER. CHIP 1µF 10V F	DK98105200
			PH01-RESISTORS		CH05		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
RH07		nsp	CHIP 27kΩ ±5% 1/16W	NN05273610	CH06		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
RH08		nsp	CHIP 27kΩ ±5% 1/16W	NN05273610	CH07		nsp	CER. CHIP 1µF 10V F	DK98105200
RH09		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CH08		nsp	CER. CHIP 1µF 10V F	DK98105200
RH10		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CH51		nsp	CER. CHIP 470pF	DK96471300
RH11		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CH52		nsp	CER. CHIP 0.47µF ±10% 10V B(BJ)	DK96474200
RH12		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CH53		nsp	CER. CHIP 1000pF ±10% B 50V	DK96102300
RH13		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CH55		EY10701020	ELECT. CHIP 100µF 10V	EY10701020
RH14		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CH56		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300
RH15		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CH57		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300
RH16		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CH58		EY10601620	ELECT. CHIP 10µF 16V	EY10601620
RH17					CH61		EY3350167R	TANTL. CHIP SK3-IC 3.3µF 16V	EY3350167R
∫		nsp	CHIP 4.7Ω ±5% 1/16W	NN05047610	CM07		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RH20					CM08		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RH21		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	CM09		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RH22		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CM10		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RH71					CM11		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
∫		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CM12		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
RH74					CM13		EY68601070	TANTL. CHIP 68µF 10V MSVC1A686M	EY68601070
RH75		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CM14		nsp	CER. CHIP 220pF	DK96221300
RM01		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CM15		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM02		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CM16		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RM15		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CM17		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RM16		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CM21		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RM17		nsp	CHIP 150Ω ±5% 1/16W	NN05151610	CM22		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RM18		nsp	CHIP 150Ω ±5% 1/16W	NN05151610	CM23		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RM31		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CM37		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM32		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CM38		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM45		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CM39		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RM46		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CM40		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RM47		nsp	CHIP 150Ω ±5% 1/16W	NN05151610	CM41		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
RM48		nsp	CHIP 150Ω ±5% 1/16W	NN05151610	CM42		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
RM81		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CM43		EY68601070	TANTL. CHIP 68µF 10V MSVC1A686M	EY68601070
RM82		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	CM44		nsp	CER. CHIP 220pF	DK96221300
RM83		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	CM45		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM84		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	CM46		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RM91		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CM47		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RM92		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610					
RM93		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	CM51		nsp	CER. CHIP 1µF 10V F	DK98105200
RM94		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610	CM52		EY10601620	ELECT. CHIP 10µF 16V	EY10601620
RV04		RM01031200	VAR. RK09K12A H L1=15MM	RM01031200	CM53		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
			PH01-SEMICONDUCTORS		CM54		EY47601020	ELECT. CHIP 47µF 10V	EY47601020
QH02		HC10138490	IC TDA1308 POWER OP AMP	HC10138490	CM55		nsp	CER. CHIP GRM39CH471J50PT	DD95471300
QM05		BA20080210	DIG. TRS DTC323TU	BA20080210	CM56		EY10601620	ELECT. CHIP 10µF 16V	EY10601620
QM06		BA20080210	DIG. TRS DTC323TU	BA20080210	CM57		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
QM35		BA20080210	DIG. TRS DTC323TU	BA20080210	CM61		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
QM36		BA20080210	DIG. TRS DTC323TU	BA20080210					

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
CM62		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	DH03		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
CM63		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	DH04		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
CM71		nsp	CER. CHIP 1µF 10V F	DK98105200	DH91		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
CM72		nsp	CER. CHIP 1µF 10V F	DK98105200	DH92		HZ20002080	CHIP DIODE SFPL-52 200V 0.9A	HZ20002080
					DH99		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
					DS01		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
					DS02		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
R401		nsp	PH02-RESISTORS CHIP 0Ω ±5% 1/16W	NN05000610	DS04		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
R402		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	DS05		HZ21006000	CHIP DIODE 1SS300 DAP202U	HZ21006000
RH01		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	DS06		HZ21006000	CHIP DIODE 1SS300 DAP202U	HZ21006000
RH02		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610					
RH03		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	Q401		BA10014210	DIG. TRS DTA144EU	BA10014210
RH04		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	Q402		BA21113050	DIG. TRS RN1113	BA21113050
RH05		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	QH01		HC10011090	IC NJM4558M Y	HC10011090
RH06		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	QH03		BA20080210	DIG. TRS DTC323TU	BA20080210
RH22		nsp	CHIP 560Ω ±5% 1/16W	NN05561610	QH04		BA20080210	DIG. TRS DTC323TU	BA20080210
RH53		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	QH51		HC10157490	IC TDA7056A 3W POWER	HC10157490
RH54		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	QH52		BA20080210	DIG. TRS DTC323TU	BA20080210
RH55		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	QM01		HC10168090	IC NJM2068V OP-AMP	HC10168090
RH61		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	QM02		HC10011090	IC NJM4558M Y	HC10011090
RH91		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	QM03		HC705205Y0	IC TC74HC4052AFT	HC705205Y0
RH99		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	QM07		BA12303000	DIG. TRS DTA124EU RN2303	BA12303000
RM03		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QM31		HC10168090	IC NJM2068V OP-AMP	HC10168090
RM04		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QM33		HC705205Y0	IC TC74HC4052AFT	HC705205Y0
RM05		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	QM51		HC10168090	IC NJM2068V OP-AMP	HC10168090
RM06		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610					
RM07		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RM08		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RM09		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610					
RM10		nsp	CHIP 470Ω ±5% 1/16W	NN05471610					
RM12		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610					
RM13		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610					
RM19		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610					
RM21									
RM24		nsp	CHIP 47Ω ±5% 1/16W	NN05470610					
RM33		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610					
RM34		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	CB12				
RM35		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CB51				
RM36		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CB52				
RM37		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CB53				
RM38		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CE01		EA22800620	ELECT. 2200µF 6.3V	EA22800620
RM39		nsp	CHIP 1MΩ ±5% 1/16W	NN05105610					
RM40		nsp	CHIP 470Ω ±5% 1/16W	NN05471610	CF01				
RM42		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610	CF04				
RM43		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CF05				
RM51		nsp	CHIP 10Ω ±5% 1/16W	NN05100610	CF06				
RM52		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610	CH31				
RM53		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CH32				
RM54		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	CH33				
RM55		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RM56		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610					
RM57		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610	CH36				
RM58		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610	CK63		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM61		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610	CK64		EY10601070	TANTL. CHIP 10µF 10V	EY10601070
RM62		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610	CK65		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
					CK66		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300
RS04					CK67		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RS07		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CK69		nsp	CER. CHIP 0.1µF GRM39F104Z16	DK98104200
RS08		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	CK92		nsp	CER. CHIP 0.1µF ±10% B 10V	DK96104200
RS09		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610					
RS11		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CT01		nsp	CER. CHIP 1µF 10V F	DK98105200
RS14					CT02		nsp	CER. CHIP 1µF 10V F	DK98105200
RS17		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CT03		nsp	CER. CHIP 0.047µF ±10% X7R 16V	DK96473200
					CT04		nsp	CER. CHIP 0.047µF ±10% X7R 16V	DK96473200
					CT05		nsp	CER. CHIP 0.1µF ±10% B 10V	DK96104200
					CT06		nsp	CER. CHIP 0.1µF ±10% B 10V	DK96104200
					CT07		nsp	CER. CHIP 0.082µF ±10% 16V	DK96823200
					CT08		nsp	CER. CHIP 0.082µF ±10% 16V	DK96823200
DH01		HZ30750050	CHIP DIODE 02CZ7.5Y	HZ30750050	CT09		nsp	CER. CHIP 2700pF ±10% B 50V	DK96272300
DH02		HZ30750050	CHIP DIODE 02CZ7.5Y	HZ30750050					

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CT10		nsp	CER. CHIP 2700pF ±10% B 50V	DK96272300	R422		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT11		nsp	CER. CHIP 0.018μF 25V	DK96183200	R423		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT12		nsp	CER. CHIP 0.018μF 25V	DK96183200	R424		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT13		nsp	CER. CHIP 1200pF	DK96122300					
CT14		nsp	CER. CHIP 1200pF	DK96122300	RB01		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CT15		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RB02		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CT16		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RB03		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
CT17		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	RB04		nsp	CHIP 12kΩ ±5% 1/16W	NN05123610
CT18		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	RB05		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CT19		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RB06		nsp	CHIP 33kΩ ±5% 1/16W	NN05333610
CT31		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RB07		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
CT32		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RB08		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
CT51		nsp	CER. CHIP 0.047μF ±10% X7R 16V	DK96473200	RB09		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT52		nsp	CER. CHIP 0.047μF ±10% X7R 16V	DK96473200	RB10		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CT53		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	RF01		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
CT54		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	RF02		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
CT55		nsp	CER. CHIP 0.082μF ±10% 16V	DK96823200	RF03				
CT56		nsp	CER. CHIP 0.082μF ±10% 16V	DK96823200	}		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
CT59		nsp	CER. CHIP 1200pF	DK96122300	RF08				
CT60		nsp	CER. CHIP 1200pF	DK96122300	RF09		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CT61		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	RF10		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CT62		nsp	CER. CHIP 4700pF ±10% B 50V	DK96472300	RF11		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CT63					RF12		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
}		EY10601070	TANTL. CHIP 10μF 10V	EY10601070					
CT67					RH23		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
					RH24		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
CU01		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RH25		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610
}					RH26		nsp	CHIP 6.8kΩ ±5% 1/16W	NN05682610
CU04					RH33		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CU05		nsp	CER. CHIP 0.01μF	DK98103300	RH34		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
}					RH35		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CU12		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RH36		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
CU13		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RH37		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CU14		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RH38		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CU15		nsp	CER. CHIP 0.01μF	DK98103300	RH39		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610
CU16		nsp	CER. CHIP 0.01μF	DK98103300	RH40		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610
CU17					RH41				
}		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	}		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CU21					RH44				
CU51		nsp	CER. CHIP 2200pF	DK96222300	RK61		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CU83		EY10700620	ELECT. CHIP 100μF 6.3V	EY10700620	RK62		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CU91		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	RK65		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CU99		nsp	CER. CHIP 47pF ±5% CG 50V	DD95470300	RK66		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CX01					RK67		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610
}		EY10601070	TANTL. CHIP 10μF 10V	EY10601070	RK68		nsp	CHIP 8.2kΩ ±5% 1/16W	NN05822610
CX05					RT01		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
CX06		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RT02		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
CX07		EY10601070	TANTL. CHIP 10μF 10V	EY10601070	RT95		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
CX08		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200					
CX09		EY10601070	TANTL. CHIP 10μF 10V	EY10601070	RU01		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CX10		EY10601070	TANTL. CHIP 10μF 10V	EY10601070	RU02		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CX11		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	RU03		nsp	CHIP 100Ω ±5% 1/16W	NN05101610
CX12		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	RU04		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
CX21		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	RU05				
CX22		nsp	CER. CHIP 100pF ±5% CG 50V	DD95101300	}		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
CX23		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	RU09				
CX24		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	RU13		nsp	CHIP 820Ω ±5% 1/16W	NN05821610
CX31		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	RU15				
CX32		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	}		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
			PM01-RESISTORS		RU18				
R244		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	RU19		nsp	CHIP 820Ω ±5% 1/16W	NN05821610
R245		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	RU20		nsp	CHIP 820Ω ±5% 1/16W	NN05821610
R246		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	RU21				
R247		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	}		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R261		nsp	CHIP D-GND 0Ω	NN05000610	RU24				
R262		nsp	CHIP D-GND 0Ω	NN05000610	RU25		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
R301					RU26		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
}		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	RU27		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
R304					RU28		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
					RU29		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RU31		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QU01		*HS416KF0R	IC MB90F574	*HS416KF0R
RU33					QU02		HC10055530	FLASH ROM U-COM 120P	HC10055530
RU45		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	QU11		HC10033990	IC S-80735SN-DZ-X RESET IC	HC10033990
RU51					QU51		BA21303000	DIG.TRS DTC124EU RN1303	BA21303000
RU55		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QU52		HX100012A0	CHIP TRS.	HX100012A0
RU71		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QU53		HX300012A0	2SA1586 Y GR 2SA1576A Q R	HX300012A0
RU72		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610				CHIP TRS.	
RU82		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	QU55		BA21303000	2SC4081 Q R 2SC4116 Y GR	BA21303000
RU84		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	QU71		BA20035210	DIG.TRS DTC124EU RN1303	BA20035210
RU86		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610	QU83		BA21303000	DIG.TRS DTC114EU	BA21303000
RU87		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	QU84		BA12303000	DIG.TRS DTA124EU RN2303	BA12303000
RU88		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	QU85		HX300012A0	DIG.TRS DTC124EU RN1303	HX300012A0
RU89		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610	QU91		BA21303000	DIG.TRS DTA124EU RN2303	BA21303000
RU91		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	QX01		HC10011090	CHIP TRS.	HC10011090
RU99		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	QX02		HC10011090	2SA1586 Y GR 2SC4116 Y GR	HC10011090
					QX21		HC10011090	IC NJM4558M Y	HC10011090
RX01					QX31		HC705205Y0	IC NJM4558M Y	HC705205Y0
RX06		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610				IC TC74HC4052AFT	HC705205Y0
RX07		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	XU01		FQ08004070	PM01-MISCELLANEOU	FQ08004070
RX08		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610				SERAMIC VIB. CSTCC8.00MG-TC	
RX09		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610				8.000MHZ	
RX10		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610				PV01-PHONE/MIC VOLUME	
RX11		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610				CIRCUIT BOARD	
RX12		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	CV01			PV01-CAPACITORS	
RX15		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610		nsp		CER. CHIP 0.1μF ±10% B 10V	DK96104200
RX16		nsp	CHIP 3.3kΩ ±5% 1/16W	NN05332610	CV04				
RX21		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610				PV01-RESISTORS	
RX22		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RV01		RK01031610	VAR. RK09L1140 V L=12.5MM	RK01031610
RX23		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RV02		RK01031610	VAR. RK09L1140 V L=12.5MM	RK01031610
RX24		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RV03		RM01031210	VAR. RK09L1240 V L1=12.5MM	RM01031210
RX25		nsp	CHIP 82kΩ ±5% 1/16W	NN05823610	RV05		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RX26		nsp	CHIP 82kΩ ±5% 1/16W	NN05823610	RV06		nsp	CHIP 2.2kΩ ±5% 1/16W	NN05222610
					RV19		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
RX31		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610	RV31			CHIP 0Ω ±5% 1/16W	NN05000610
RX32		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610					
RX33		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RV38			CHIP 0Ω ±5% 1/16W	NN05000610
RX34		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RV40			CHIP 0Ω ±5% 1/16W	NN05000610
RX37		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RV41			CHIP 0Ω ±5% 1/16W	NN05000610
RX38		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610					
RX39		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	SS01		SS02030800	SLIDE SWITCH SSSF025100 V	SS02030800
RX51		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	SS02		SS02022060	SLIDE SWITCH SSSF021900 V	SS02022060
RX52		nsp	CHIP 22kΩ ±5% 1/16W	NN05223610	SV01		SR01040120	ROTARY SWITCH SRBV14 1-4 V	SR01040120
RX53		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610				PY01-FL CIRCUIT BOARD	
RX54		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	CY01		nsp	CER. CHIP 1μF 10V F	DK98105200
RX62		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CY02		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200
RX72		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CY03		nsp	CER. CHIP 22pF ±5% CG 50V	DD95220300
					DY01		HI10062320	L.E.D. LT3D8B RED 30	HI10062320
D201	HZ21005000		CHIP DIODE 1SS301 DAN202U	HZ21005000	QY01		HC10381030	IC LC75710NE	HC10381030
D202	HZ21005000		CHIP DIODE 1SS301 DAN202U	HZ21005000	QY02		BA21111000	VFD CONTROL DRIVER	BA21111000
DU51	HZ21005000		CHIP DIODE 1SS301 DAN202U	HZ21005000	RY04		nsp	DIG.TRS DTC114TE RN1111	BA21111000
DU83	HZ21005000		CHIP DIODE 1SS301 DAN202U	HZ21005000	RY05		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
DX31	HZ21006000		CHIP DIODE 1SS300 DAP202U	HZ21006000	RY06		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
					VY01		HQ31401410	CHIP 680Ω ±5% 1/16W	NN05681610
QB01	HC10432050		IC TC9413P ELECTRIC VOLUME	HC10432050				DISPLAY UNIT	HQ31401410
QB02	HC10011090		IC NJM4558M Y	HC10011090				BJ641G 5X7DOT 14GRID 106PIN	
QF01	HC406621Y0		IC BU4066BCFV	HC406621Y0	SY21		SS01021060	PY21-POWER SW	SS01021060
QF03								CIRCUIT BOARD	
QF06	BA12303000		DIG.TRS DTA124EU RN2303	BA12303000				PY31-CD-R KEY CIRCUIT BOARD	
QH31	HC705205Y0		IC TC74HC4052AFT	HC705205Y0				PY31-RESISTORS	
QK05	HC10011090		IC NJM4558M Y	HC10011090				CHIP 820Ω ±5% 1/16W	NN05821610
QT01	HC10254200		IC M62449FP	HC10254200					
			5BAND TONE CONTROL						
QT32	HC705205Y0		IC TC74HC4052AFT	HC705205Y0					
QT51	HC10254200		IC M62449FP	HC10254200					
			5BAND TONE CONTROL						

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
RY32		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610				PY81-MISCELLANEOUS	
RY33		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610	SY81				
RY34		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	}		SP01013370	PUSH SWITCH	SP01013370
RY35		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	SY90			EVQ11L05R H/5MM 160GF	
RY36		nsp	CHIP 820Ω ±5% 1/16W	NN05821610					
RY37		nsp	CHIP 15kΩ ±5% 1/16W	NN05153610				PY91-TONE VOLUME	
RY38		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610				CIRCUIT BOARD	
RY39		nsp	CHIP 120Ω ±5% 1/16W	NN05121610	RY91		RK05030990	VAR. RK11K113 V CC-CT	RK05030990
RY40		nsp	CHIP 120Ω ±5% 1/16W	NN05121610	RY92		RK05030990	VAR. RK11K113 V CC-CT	RK05030990
RY41		nsp	CHIP 150Ω ±5% 1/16W	NN05151610	RY93		RK05030990	VAR. RK11K113 V CC-CT	RK05030990
RY43		nsp	CHIP 680Ω ±5% 1/16W	NN05681610	RY94		nsp	CHIP 0Ω ±5% 1/16W	NN05000610
			PY31-SEMICONDUCTORS					PZ01-POWER SUPPLY SUB	
DY31		HI10095320	L.E.D. LT3K44B GREEN 30MA	HI10095320				CIRCUIT BOARD	
DY32		HI10111320	L.E.D. GL3HS8 SUNSET ORANGE	HI10111320				PZ01-CAPACITORS	
DY33		HI10062320	L.E.D. LT3D8B RED 30	HI10062320	CZ01	nsp		ELECT. 10μF M 50V RA-2	OA10605020
DY34		HI10095320	L.E.D. LT3K44B GREEN 30MA	HI10095320	CZ03	nsp		CER. CHIP 100pF ±5% CG 50V	DD95101300
QY31		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000	CZ04	nsp		ELECT. 220μF M 10V RA-2	OA22701020
QY32		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000	CZ05	nsp		CER. CHIP 220pF	DK96221300
QY33		BA21111000	DIG. TRS DTC114TE RN1111	BA21111000	CZ06	nsp		CER. CHIP 330pF	DK96331300
			PY31-MISCELLANEOUS		CZ07	nsp		CER. CHIP 0.01μF	DK98103300
SY31					CZ08	nsp		ELECT. 10μF M 50V RA-2	OA10605020
}		SP01013370	PUSH SWITCH	SP01013370	CZ09	nsp		ELECT. 10μF M 50V RA-2	OA10605020
SY37			EVQ11L05R H/5MM 160GF		CZ10	nsp		CER. CHIP 330pF	DK96331300
			PY61-JOG DIAL CIRCUIT BOARD		CZ11	nsp		CER. CHIP 0.01μF	DK98103300
RY61		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CZ12	nsp		CER. CHIP 0.047μF	DK98473300
SY61		SR03030060	ROTARY SWITCH EC11B20244 V	SR03030060	CZ13	nsp		ELECT. 100μF M 25V RA-2	OA10702520
			PY71-IR CIRCUIT BOARD		CZ14	nsp		CER. CHIP 0.047μF	DK98473300
			PY71-CAPACITORS		CZ15	nsp		ELECT. 10μF M 50V RA-2	OA10605020
CY71		nsp	CER. CHIP 0.1μF GRM39F104Z16	DK98104200	CZ16	nsp		CER. CHIP 0.047μF	DK98473300
CY72		EY10700620	ELECT. CHIP 100μF 6.3V	EY10700620	CZ17	nsp		ELECT. 220μF M 10V RA-2	OA22701020
CY73		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	CZ18	nsp		ELECT. 47μF M 16V RA-2	OA47601620
CY74		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200	CZ19	nsp		ELECT. 220μF M 10V RA-2	OA22701020
CY75		nsp	CER. CHIP 0.1μF ±10% B 10V	DK96104200					
			PY71-RESISTORS		CZ20	nsp		ELECT. 47μF M 16V RA-2	OA47601620
RY71		nsp	CHIP 100Ω ±5% 1/16W	NN05101610	CZ22				
RY76		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	}			CER. CHIP 0.1μF GRM39F104Z16	DK98104200
RY77		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CZ25				
RY78		nsp	CHIP 0Ω ±5% 1/16W	NN05000610	CZ26	nsp		ELECT. 47μF M 16V RA-2	OA47601620
			PY71-SEMICONDUCTORS		CZ31	nsp		ELECT. 0.22μF M 50V RA-2	OA22405020
DY71		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000	CZ32	nsp		CER. CHIP 1μF 10V F	DK98105200
DY76					CZ33		EA47610010	ELECT. 47μF 100V	EA47610010
QY71		HW10004210	PHOTO UNIT RPM6936-V4 IR SENSOR	HW10004210	CZ34	nsp		ELECT. 1μF M 50V RA-2	OA10505020
			PY71-MISCELLANEOUS		CZ35		EA47610010	ELECT. 47μF 100V	EA47610010
SS71		SP01013370	PUSH SWITCH EVQ11L05R	SP01013370	CZ81	nsp		ELECT. 100μF M 10V RA-2	OA10701020
SS72					CZ82	nsp		ELECT. 100μF M 10V RA-2	OA10701020
SS75		SS02021680	SLIDE SWITCH SSSF022-S06N0	SS02021680					
			PY81-CD KEY0 CIRCUIT BOARD					PZ01-RESISTORS	
			PY81-RESISTORS		RZ01		RI05331010	CHIP 330Ω ±5% 1W	RI05331010
RY80		nsp	CHIP 820Ω ±5% 1/16W	NN05821610	RZ02	nsp		CHIP 47kΩ ±5% 1/16W	NN05473610
RY81		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RZ03	nsp		CHIP 220kΩ ±5% 1/16W	NN05224610
RY82		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610	RZ04	nsp		CHIP 560kΩ ±5% 1/16W	NN05564610
RY83		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610	RZ05	nsp		CHIP 22kΩ ±5% 1/16W	NN05223610
RY84		nsp	CHIP 1.8kΩ ±5% 1/16W	NN05182610	RZ06	nsp		CHIP 6.8kΩ ±5% 1/16W	NN05682610
RY85		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RZ07	nsp		CHIP 470kΩ ±5% 1/16W	NN05474610
RY86		nsp	CHIP 2.7kΩ ±5% 1/16W	NN05272610	RZ08	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
RY87		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	RZ09		NI01333110	CHIP 33kΩ ±1% 1/10W	NI01333110
RY88		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610	RZ10		NI01333110	CHIP 33kΩ ±1% 1/10W	NI01333110
RY89		nsp	CHIP 820Ω ±5% 1/16W	NN05821610	RZ11		NI01472110	CHIP 4.7kΩ ±1% 1/10W	NI01472110
					RZ12		NI01472110	CHIP 4.7kΩ ±1% 1/10W	NI01472110
					RZ15	nsp		CHIP 470kΩ ±5% 1/16W	NN05474610
					RZ16	nsp		CHIP 33kΩ ±5% 1/16W	NN05333610
					RZ17	nsp		CHIP 100Ω ±5% 1/16W	NN05101610
					RZ18	nsp		CHIP 100Ω ±5% 1/16W	NN05101610
					RZ21		NI05823110	CHIP 82kΩ ±5% 1/10W	NI05823110
					RZ22		NI05154110	CHIP 150kΩ ±5% 1/10W	NI05154110
					RZ23		NI01223110	CHIP 22kΩ ±1% 1/10W	NI01223110
					RZ24		NI01473110	CHIP 47kΩ ±1% 1/10W	NI01473110
					RZ26		NI01472110	CHIP 4.7kΩ ±1% 1/10W	NI01472110

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RZ27		nsp	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RZ31		nsp	CHIP 10kΩ ±5% 1/16W	NN05103610
RZ32		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RZ33		nsp	CHIP 1.5kΩ ±5% 1/16W	NN05152610
RZ34		nsp	CHIP 56kΩ ±5% 1/16W	NN05563610
RZ35		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RZ36		nsp	CHIP 470Ω ±5% 1/16W	NN05471610
RZ37		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
RZ38		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RZ39		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RZ40		nsp	CHIP 47kΩ ±5% 1/16W	NN05473610
RZ41		nsp	CHIP 220kΩ ±5% 1/16W	NN05224610
RZ51		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RZ52		nsp	CHIP 1kΩ ±5% 1/16W	NN05102610
RZ81		NI01333110	CHIP 33kΩ ±1% 1/10W	NI01333110
RZ82		NI01683110	CHIP 68kΩ ±1% 1/10W	NI01683110
RZ83		NI01272110	CHIP 2.7kΩ ±1% 1/10W	NI01272110
RZ84		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
RZ85		NI01273110	CHIP 27kΩ ±1% 1/10W	NI01273110
RZ87		NI01153110	CHIP 15kΩ ±1% 1/10W	NI01153110
RZ88		nsp	CHIP 100kΩ ±5% 1/16W	NN05104610
RZ90		NI01683110	CHIP 68kΩ ±1% 1/10W	NI01683110
PZ01-SEMICONDUCTORS				
DZ01		HZ30028050	CHIP DIODE 02CZ16-Y	HZ30028050
▲ DZ02		HZ20006100	CHIP DIODE EC15QS02L MINI POWER 1.3A	HZ20006100
▲ DZ03		HZ20013100	CHIP DIODE EC21QS03L	HZ20013100
▲ DZ04		HZ20013100	CHIP DIODE EC21QS03L	HZ20013100
DZ31		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
▲ DZ32		HZ20012100	CHIP DIODE EC11FSZ 200V 1A	HZ20012100
DZ33		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
DZ34		HZ21005000	CHIP DIODE 1SS301 DAN202U	HZ21005000
QZ01		HT418022B0	TRS. 2SD1802S/T-TL	HT418022B0
▲ QZ02		HY10238000	CHIP FET 2SJ238	HY10238000
▲ QZ03		HC10106530	IC S-8521D33MC-BXS	HC10106530
▲ QZ04		HC10173020	IC AN8011S-E1 DC/DC CONV. SOP16	HC10173020
▲ QZ05		HT211342B0	TRS. 2SB1134 S R	HT211342B0
▲ QZ06		HT211342B0	TRS. 2SB1134 S R	HT211342B0
▲ QZ31		HC10032360	IC LM2586SX-ADJ	HC10032360
QZ32		BA20035210	DIG. TRS DTC114EU	BA20035210
▲ QZ33		HX410062A0	CHIP TRS. 2SD1006 HK HL	HX410062A0
QZ34		HX333241B0	CHIP TRS. 2SC3324 B	HX333241B0
QZ81		HC10109530	IC S-80840CNUA-B8Z	HC10109530
QZ82		HC10109530	IC S-80840CNUA-B8Z	HC10109530
PZ01-MISCELLANEOUS				
FZ01		NH05047140	FUSIBLE 4.7Ω J 1/4W	NH05047140
LZ01		LU80104010	CHIP INDUCTANCE CDRH103R 100μH	LU80104010
LZ02		LU83683030	CHIP INDUCTANCE CDRH5D28 68μH ±30% 520MA	LU83683030
LZ03		LU80104010	CHIP INDUCTANCE CDRH103R 100μH	LU80104010
LZ04		LU80104010	CHIP INDUCTANCE CDRH103R 100μH	LU80104010
LZ05		LU83683030	CHIP INDUCTANCE CDRH5D28 68μH ±30% 520MA	LU83683030
LZ06		LU83683030	CHIP INDUCTANCE CDRH5D28 68μH ±30% 520MA	LU83683030
LZ31		LC11540170	CHOKE COIL 150μH N06DB151K	LC11540170

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