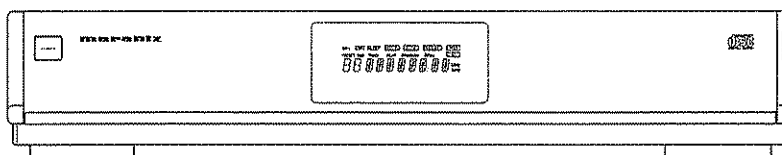
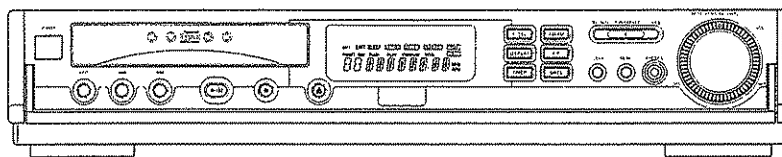


Service Manual

FILE COPY
5/12/98

75 CR2020/2A/2B/2M
CR2020K,F,U
Music Console



COMPACT
disc
DIGITAL AUDIO

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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®

model CR2020

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.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

CANADA

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

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MARANTZ EUROPE B.V.
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FAX : +31 - 40 - 2735578

PROFESSIONAL USA

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
1000 CORPORATE BLVD., SUITE D
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL CANADA

TC ELECTRONICS CANADA LTD.
540 FIRING AVE.
BAIE D'URFÉ, QUEBEC H9X 3T2
CANADA
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FAX : 514 - 457 - 5524

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2F SHINHAN BLDG., 247-17 SEOKYO-DONG
MAPO-KU, SEOUL
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PHONE : +82 - 2 - 323 - 2155
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SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123 (Discagem Direta Gratuita)
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THAILAND

MRZ STANDARD CO., LTD.
746 - 754 MAHACHAI RD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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CASTLE PEAK RD., KWAI CHUNG, N.T.
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SCAN AUDIO PTY. LTD.
52 CROWN STREET, RICHMOND 3121
VICTORIA
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6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
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FAX : +886 (2) 5630415

MALAYSIA

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NO. 102 JALAN SS 21/35, DAMANSARA
UTAMA, 47400 PETALING JAYA
SELANGOR DARUL EHSAN.
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JAPAN 228-8505
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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

SINGAPORE

FORWARD MARKETING (S) PTE. LTD.
23, LORONG 8, TOA PAYOH,
SINGAPORE 319257
PHONE : +65 2583640
FAX : +65 3564047

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 N0. 1492.

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

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency range	87.5 - 108 MHz
Sensitivity (U,K version)	19.2 dBf
Sensitivity DIN (Mono/Stereo)/(2A/2B/2M)	3.0/25 μ V
S/N (Mono/Stereo)	75/65 dB
T.H.D.	0.3/0.6 %
Selectivity at 98 MHz	65 dB

MW TUNER SECTION

Frequency range	520 - 1710 kHz
U version	531 - 1602/520 - 1710 kHz
K version	531 - 1602 kHz
/2A/2B/2M version	400 μ V/m
Sensitivity (U,K version)	600 μ V
Sensitivity DIN (S/N 20 dB 30% Mod.999 kHz)	50 dB
(/2A/2B/2M version)	
S/N	

LW TUNER SECTION(/2A/2B/2M)

Frequency range	152 - 282 kHz
Sensitivity DIN (S/N 20 dB 30% Mod.207 kHz)	1800 μ V

AMPLIFIER SECTION

Power output at 6 Ω	25 W
T.H.D. at 6 Ω rated RMS output	0.06 %
Input Sensitivity:AUX, TAPE, MD	180 mV/47 k Ω
S/N :AUX, TAPE, MD	80 dB

CD PLAYER SECTION

Frequency range	20 Hz - 20 kHz
Dynamic range	85 dB
S/N	85 dB
Channel Separation	85 dB
T.H.D.	0.015 %

POWER REQUIREMENTS

U version	120 V AC, 60 Hz
K version	115/220 - 230 V AC, 50/60 Hz
/2A/2B/2M version	230 V AC, 50 Hz

DIMENSIONS

Width	16.6" 422 mm
Height	3" 76 mm
Depth	12.3" 314 mm
WEIGHT	6.2 kg

SUPPLIED ACCESSORIES

Remote controller (RC2020CR) $\times$ 1
AAA (R03) Battery $\times$ 2
FM antenna $\times$ 1
AM loop antenna $\times$ 1

Specifications subject to change without prior notice.

FM 部

受信周波数範囲	76.0~90MHz
実用感度	16.8dBf/1.9 μ V
S/N(モノラル/ステレオ)	78/70dBf
T.H.D(モノラル/ステレオ)	0.3/0.6%

AM 部

受信周波数範囲	531~1602kHz
実用感度	300 μ V/m
S/N	50dB

アンプ部

定格出力(40Hz~20kHz T.H.D 0.6%)	25W+25W(6 Ω)
入力感度 AUX,TAPE/MD	180mV/47k Ω
S/N比 AUX,TAPE/MD	80dB

CD 部

チャンネル	2チャンネル
周波数特性	20~20,000Hz $\pm$ 0.5dB
S/N比	85dB(1000Hz)
T.H.D	0.015%(1000Hz)
出力レベル	2V RMS
光出力(角型光コネクタ)	-19dBm

その他

電源電圧	AC 100V,50/60Hz
消費電力(電気用品取締法)	50W
最大外形寸法	
幅	422mm
高さ	76mm
奥行き	314mm
質量	6.2kg

付属品

リモコン送信機	1
単四乾電池	2
FM T 型アンテナ	1
AM ループアンテナ	1
スピーカーケーブル	2

本機の規格および外観は改良のため予告なく変更することがありますのでご了承ください。

CLASS 1
LASER PRODUCT

4. IC DATA

Q221:SAA7372

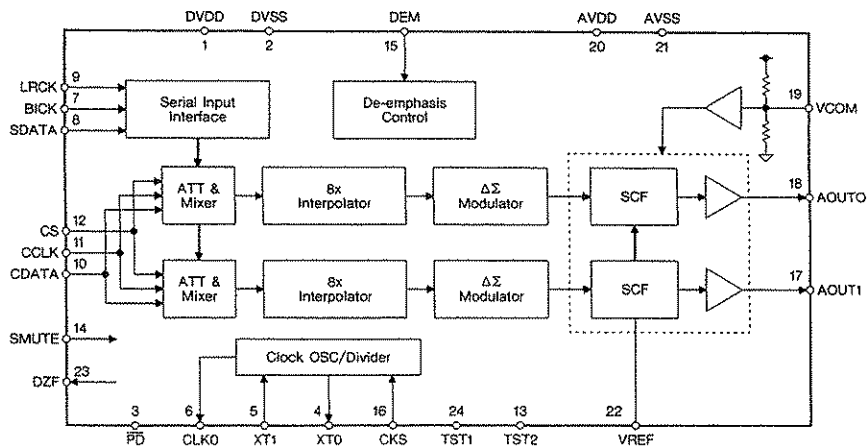
SYMBOL	PIN	DESCRIPTION
V _{SSA1}	1 ⁽¹⁾	analog ground 1
V _{DDA1}	2 ⁽¹⁾	analog supply voltage 1
D1	3	unipolar current input (central diode signal input)
D2	4	unipolar current input (central diode signal input)
D3	5	unipolar current input (central diode signal input)
V _{RL}	6	reference voltage input for ADC
D4	7	unipolar current input (central diode signal input)
R1	8	unipolar current input (satellite diode signal input)
R2	9	unipolar current input (satellite diode signal input)
V _{REFT}	10	current reference output for ADC calibration
V _{REFH}	11	reference voltage output from ADC
V _{SSA2}	12 ⁽¹⁾	analog ground 2
SELPLL	13	selects whether internal clock multiplier PLL is used
ISLICE	14	current feedback output from data slicer
HPIN	15	comparator signal input
V _{SSA3}	16 ⁽¹⁾	analog ground 3
HPREF	17	comparator common mode input
I _{REF}	18	reference current output pin (nominally 0.5V _{DD})
V _{DDA2}	19 ⁽¹⁾	analog supply voltage 2
TEST1	20	test control input 1; this pin should be tied LOW
CRIN	21	crystal/resonator input
CROUT	22	crystal/resonator output
TEST2	23	test control input 2; this pin should be tied LOW
CL16	24	16.9344 MHz system clock output
CL11	25	11.2896 or 5.6448 MHz clock output (3-state)
RA	26	radial actuator output
FO	27	focus actuator output
SL	28	sledge control output
TEST3	29	test control input 3; this pin should be tied LOW
V _{DDP1(P)}	30 ⁽¹⁾	digital supply voltage 1 for periphery
DOB1	31	bi-phase mark output (externally buffered; 3-state)
V _{SSD1}	32 ⁽¹⁾	digital ground 1
MOTO1	33	motor output 1; versatile (3-state)
MOTO2	34	motor output 2; versatile (3-state)
SBSY	35	subcode block sync output (3-state)
SFSY	36	subcode frame sync output (3-state)
RCK	37	subcode clock input
SUB	38	P-to-W subcode output bits (3-state)
V _{SSD2}	39 ⁽¹⁾	digital ground 2
V5	40	versatile output pin 5

SYMBOL	PIN	DESCRIPTION
V4	41	versatile output pin 4
V3	42	versatile output pin 3 (open-drain)
KILL	43	kill output (programmable; open-drain)
EF	44	C2 error flag; output only defined in CD ROM modes and 1fs modes (3-state)
DATA	45	serial data output (3-state)
WCLK	46	word clock output (3-state)
V _{DDP2(P)}	47 ⁽¹⁾	digital supply voltage 2 for periphery
SCLK	48	serial bit clock output (3-state)
V _{SSD3}	49 ⁽¹⁾	digital ground 3
CL4	50	4.2336 MHz microcontroller clock output
SDA	51	microcontroller interface data I/O line (open-drain output)
SCL	52	microcontroller interface clock line input
RAB	53	microcontroller interface R/W and load control line input (4-wire bus mode)
SILD	54	microcontroller interface R/W and load control line input (4-wire bus mode)
n.c.	55	not connected
V _{SSD4}	56 ⁽¹⁾	digital ground 4
RESET	57	power-on reset input (active LOW)
STATUS	58	servo interrupt request line/decoder status register output (open-drain)
V _{DDP3(C)}	59 ⁽¹⁾	digital supply voltage 3 for core
C2FAIL	60	indication of correction failure output (open-drain)
CFLG	61	correction flag output (open-drain)
V1	62	versatile input pin 1
V2	63	versatile input pin 2
LDON	64	laser drive on output (open-drain)

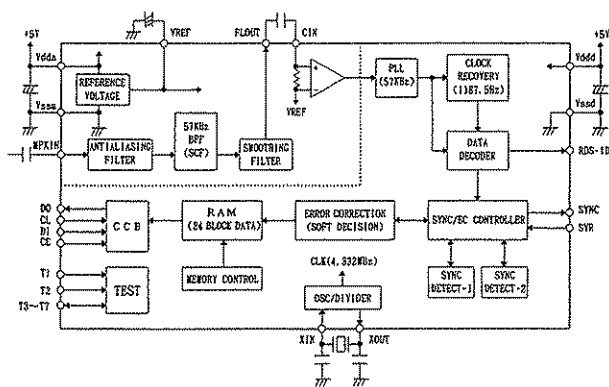
Note

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

Q401:AK4311A

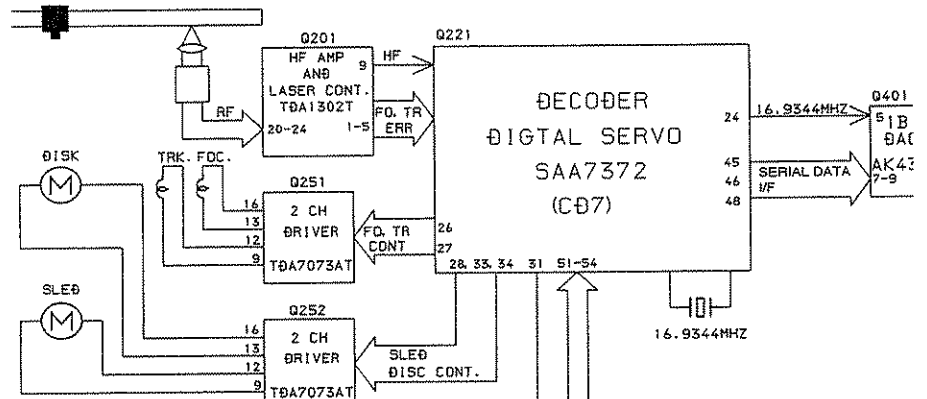


Q301:LC72720



VDDA	1	24	SVR
MPXIN	2	25	CE
VDDA	3	26	DI
VSSA	4	27	CL
FLOUT	5	28	DO
CIN	6	29	RDS-ID
T1	7	30	SYNC
T2	8	31	T7(CORREC/ARI-ID/BD0)
T3(RODL)	9	32	T6(CORREC/STK/BE1)
T4(RODA)	10	33	VSSD
T5(RSFT)	11	34	VDD
XMUT	12	35	XIN

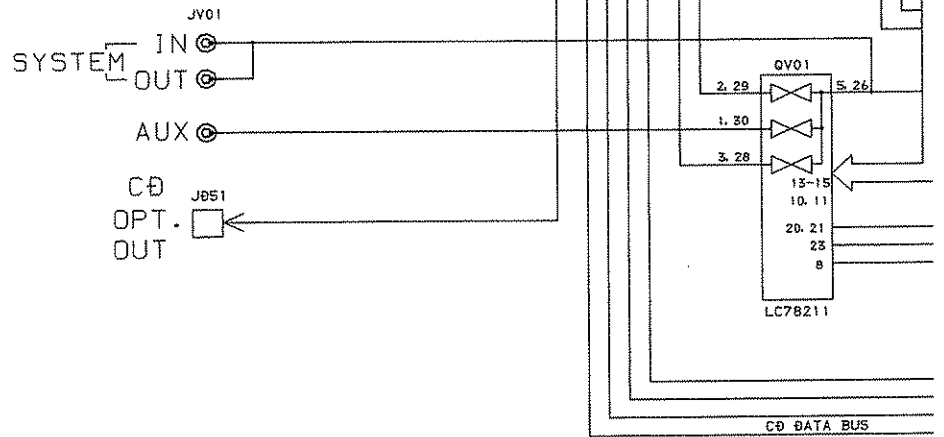
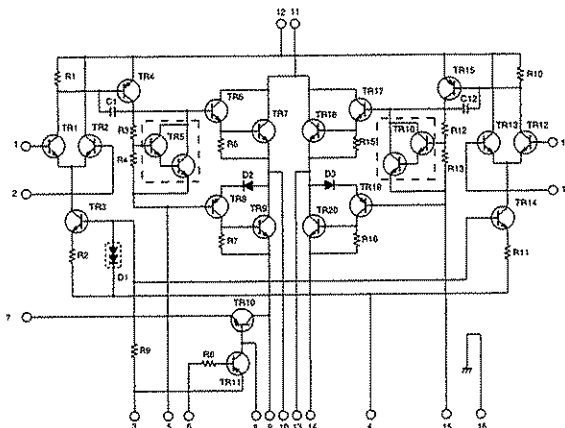
3. BLOCK DIAGRAM

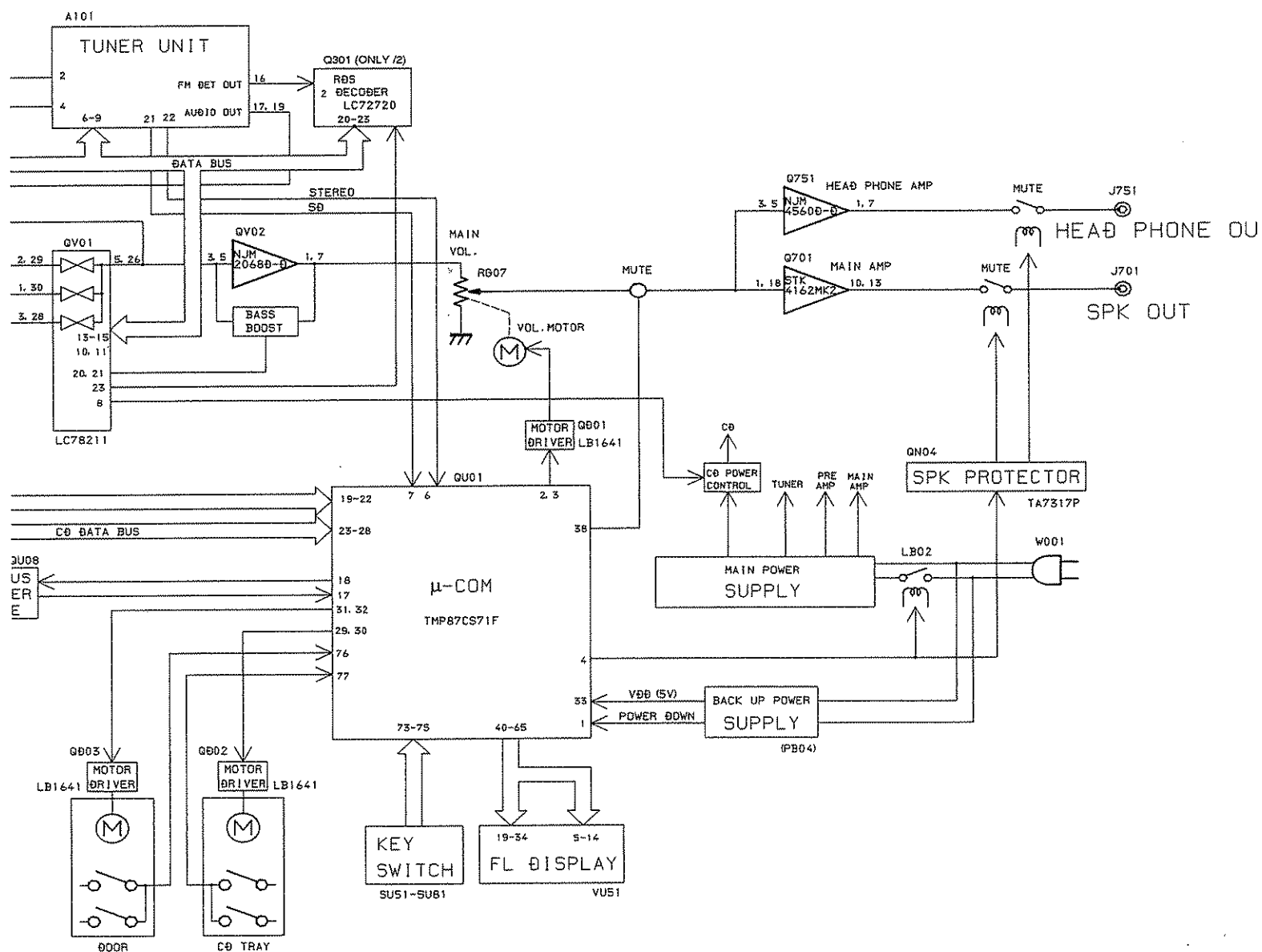
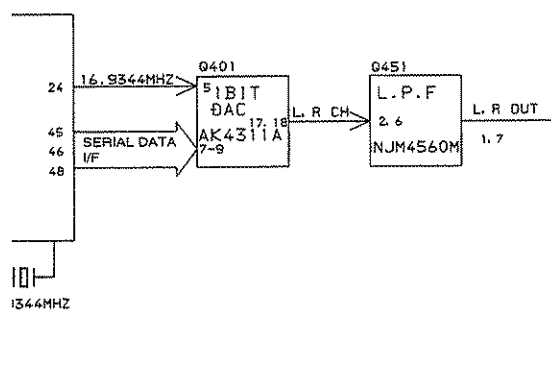


Q201:TDA1302T

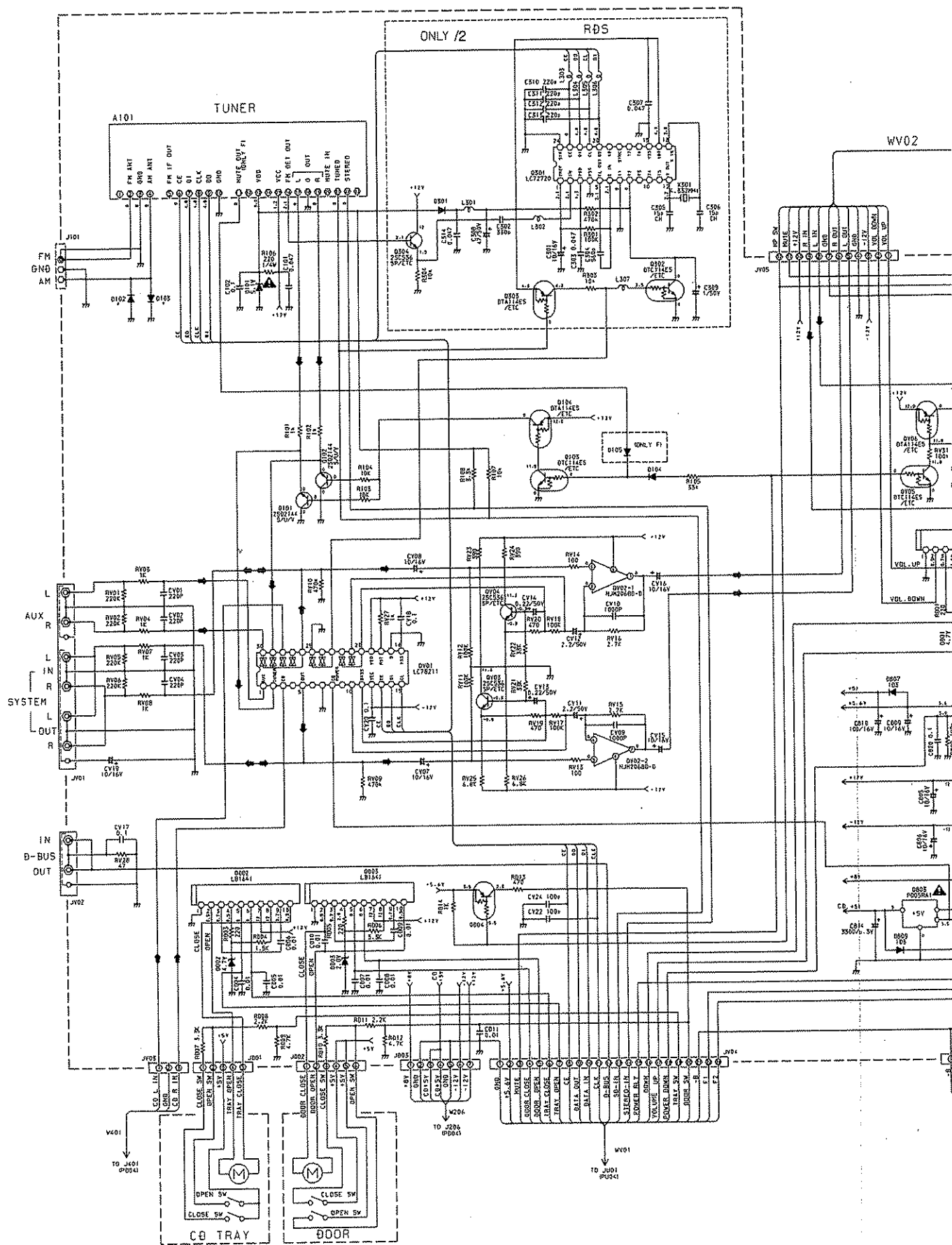
SYMBOL	PIN	DESCRIPTION
O4	1	output of diode current amplifier 4
O6	2	output of diode current amplifier 6
O3	3	output of diode current amplifier 3
O1	4	output of diode current amplifier 1
O5	5	output of diode current amplifier 5
O2	6	output of diode current amplifier 2
LDON	7	control pin for switching the laser ON and OFF
V _{DDL}	8	laser supply voltage
RFE	9	equalized output voltage of sum signal of amplifier 1 to 4
RF	10	unequalized output
HG	11	control pin for gain switch
LS	12	control pin for speed switch
CL	13	external capacitor
ADJ	14	reference input normally connected to ground via a resistor
GND	15	0 V supply; substrate connection (ground)
LO	16	current output to the laser diode
MI	17	laser monitor diode input
V _{DD}	18	amplifier supply voltage
I2	19	photo detector input 2 (central)
I5	20	photo detector input 5 (satellite)
I1	21	photo detector input 1 (central)
I3	22	photo detector input 3 (central)
I6	23	photo detector input 6 (satellite)
I4	24	photo detector input 4 (central)

Q701:STK4162MKII

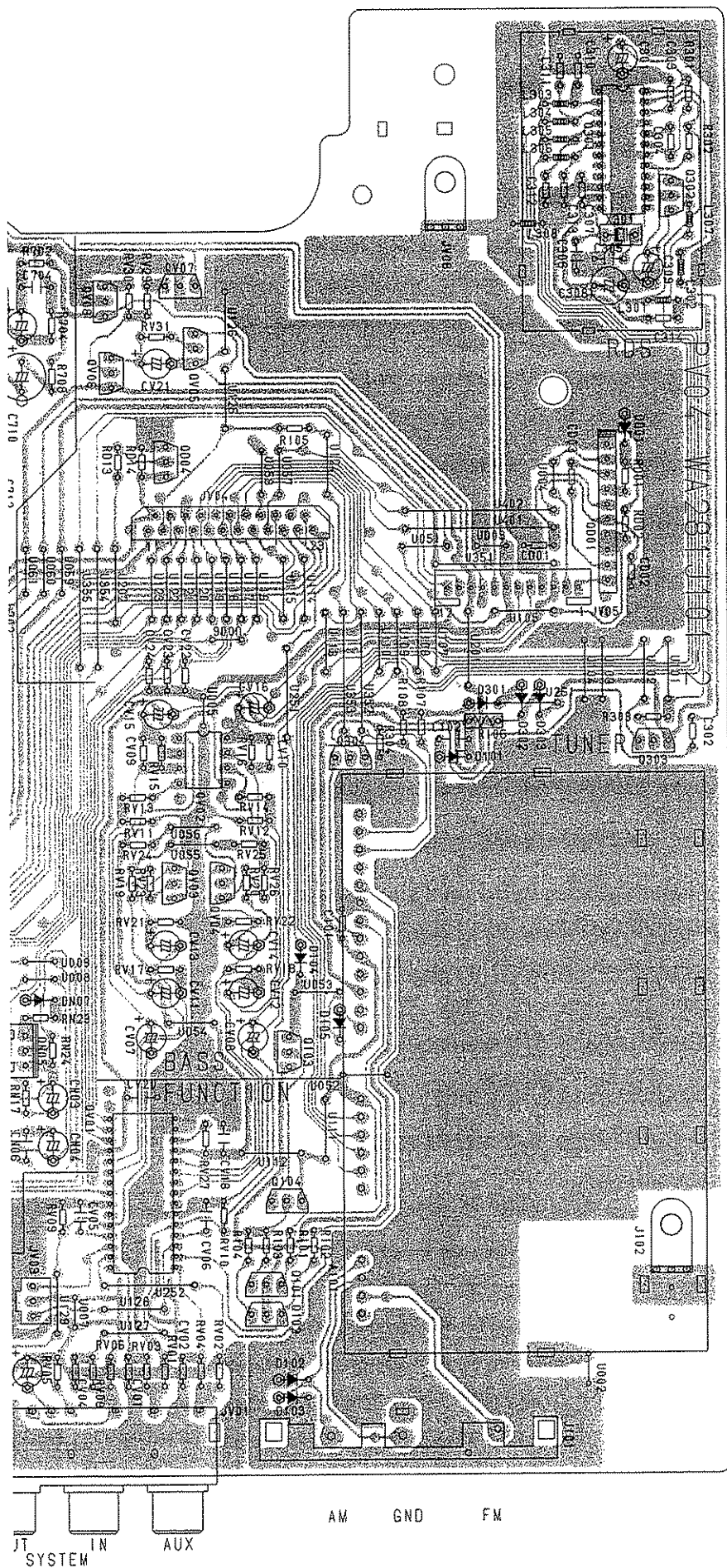




4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)







Q301

Q302

QV08 QV07

QV05 QV06

QD04

QD01

QV02 Q304 Q303

PG04 P.C. Board

Q751

QV03 QV04

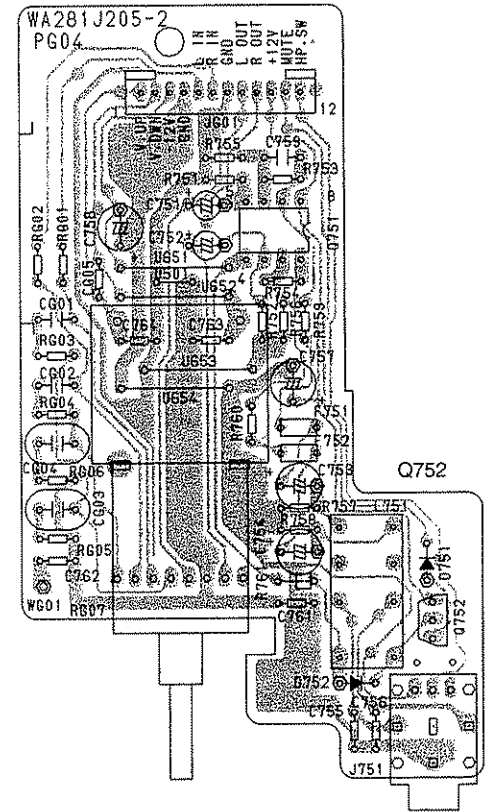
Q103

QV01 Q104

Q101

Q102

Q752



PV04 P.C. Board

Q701

Q802 QN01 QN02

Q801

Q804

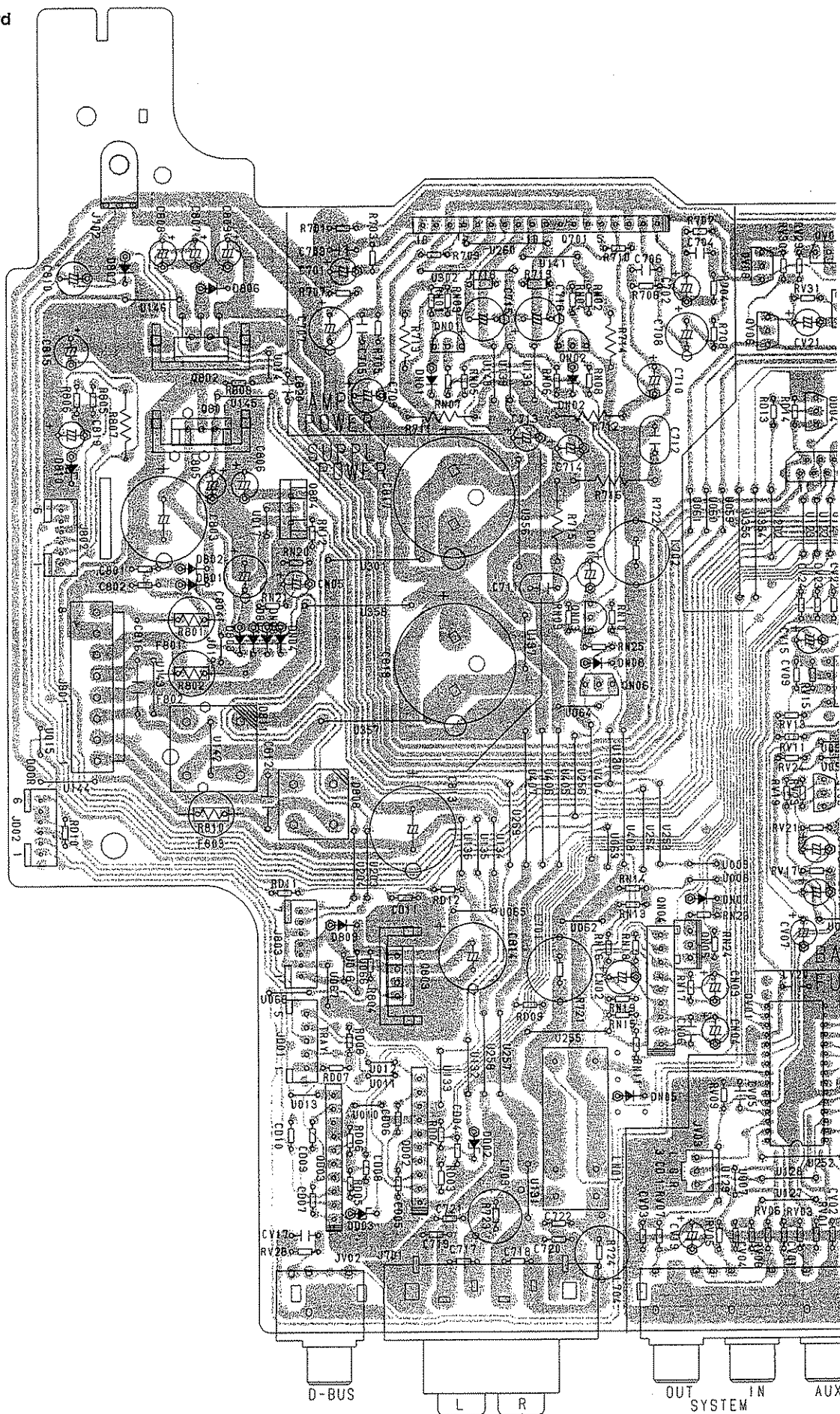
QN03

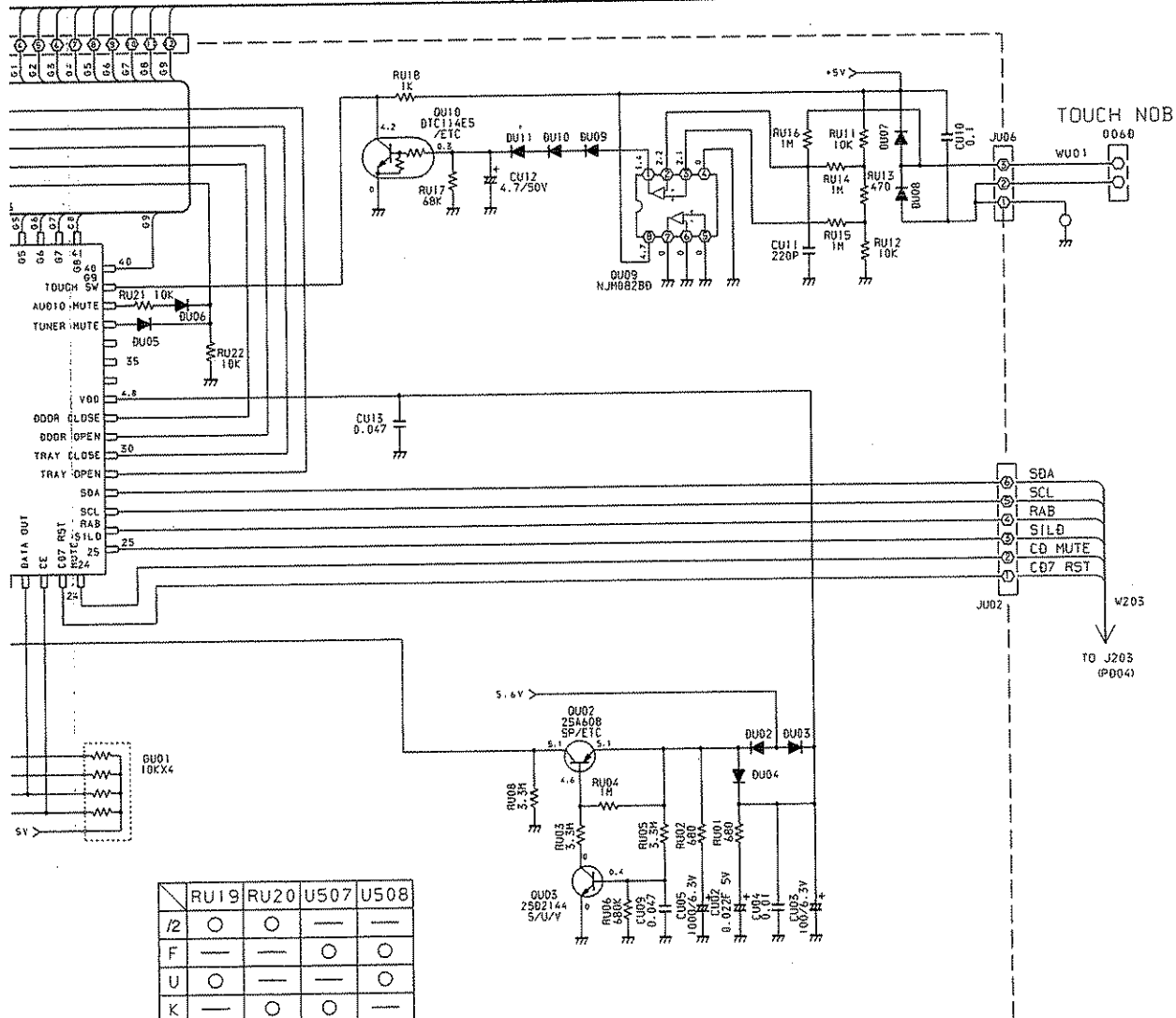
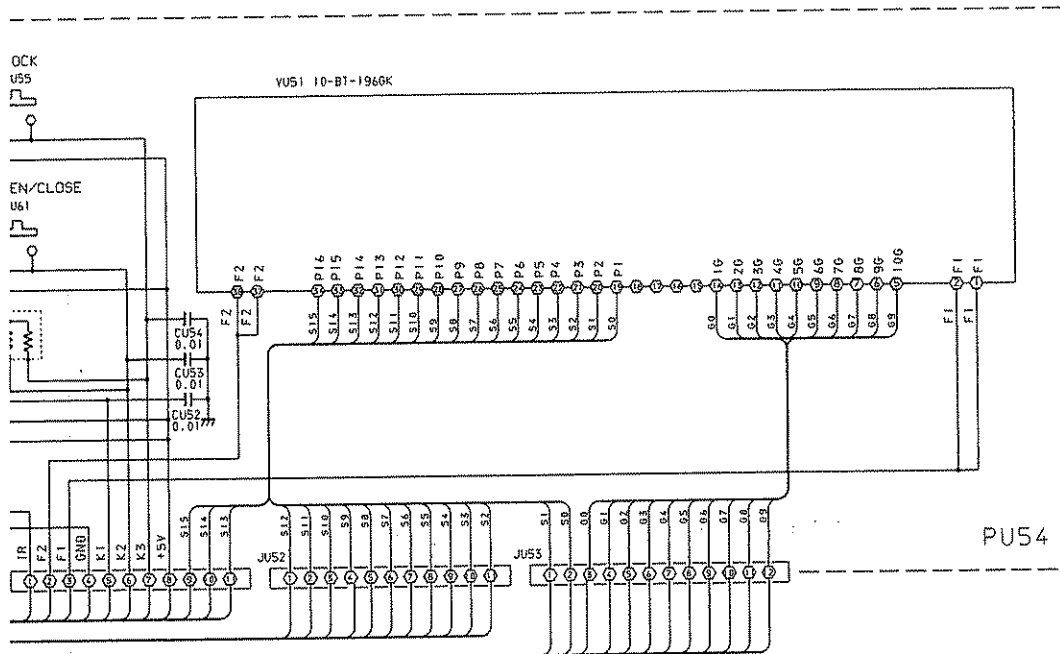
QN06

QN05

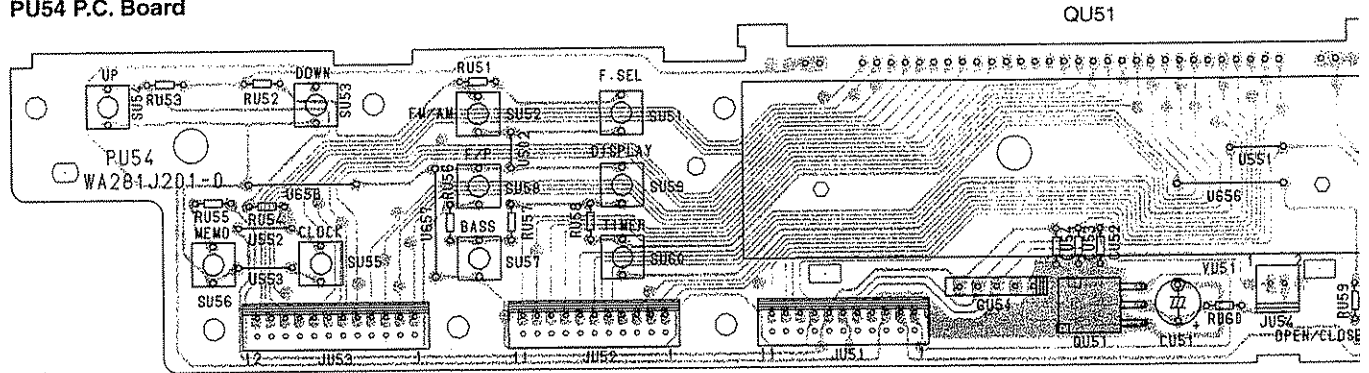
Q803 QN04

QD03 QD02

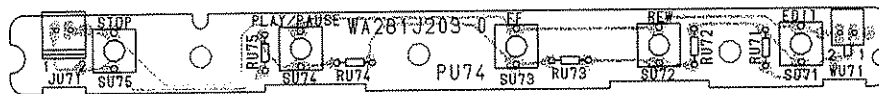




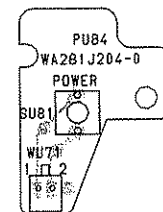
PU54 P.C. Board



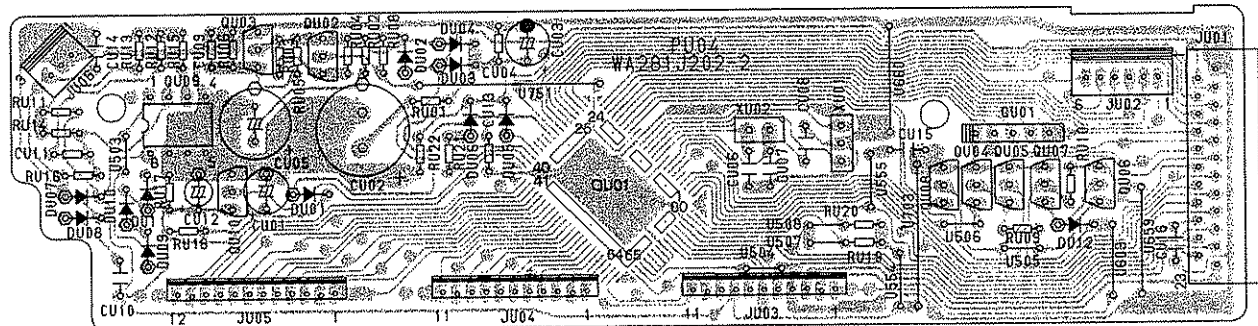
PU74 P.C. Board



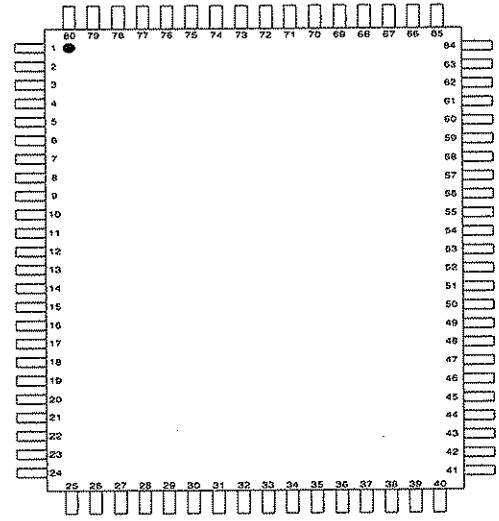
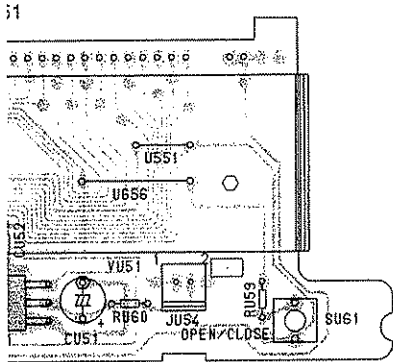
PU84 P.C. Board



PU04 P.C. Board QU03 QU02
QU09 QU10



QU01:TMP87C71F

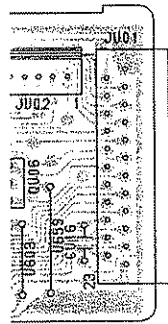


Board

QU01:TMP87C71F

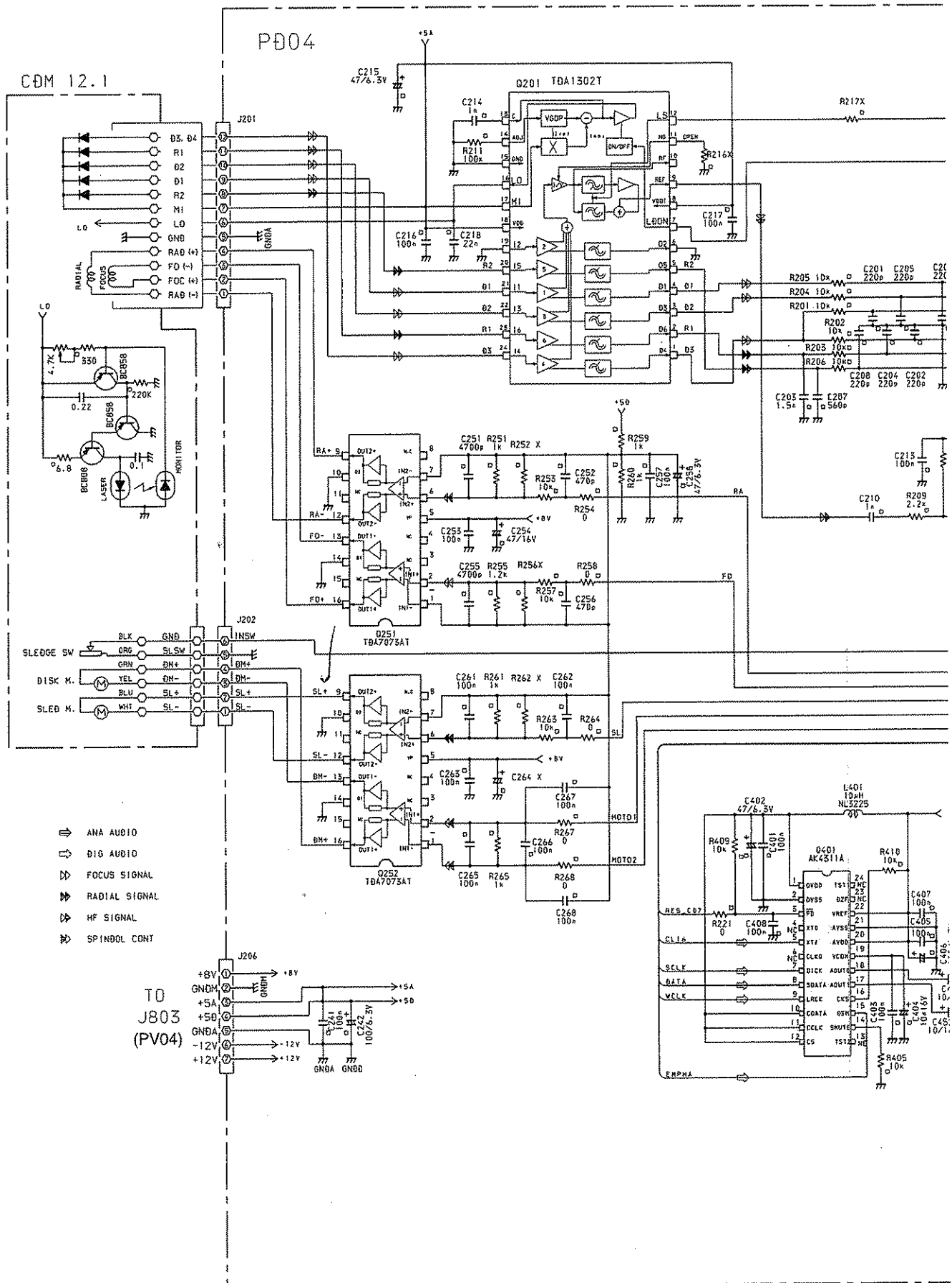
14-0

U06



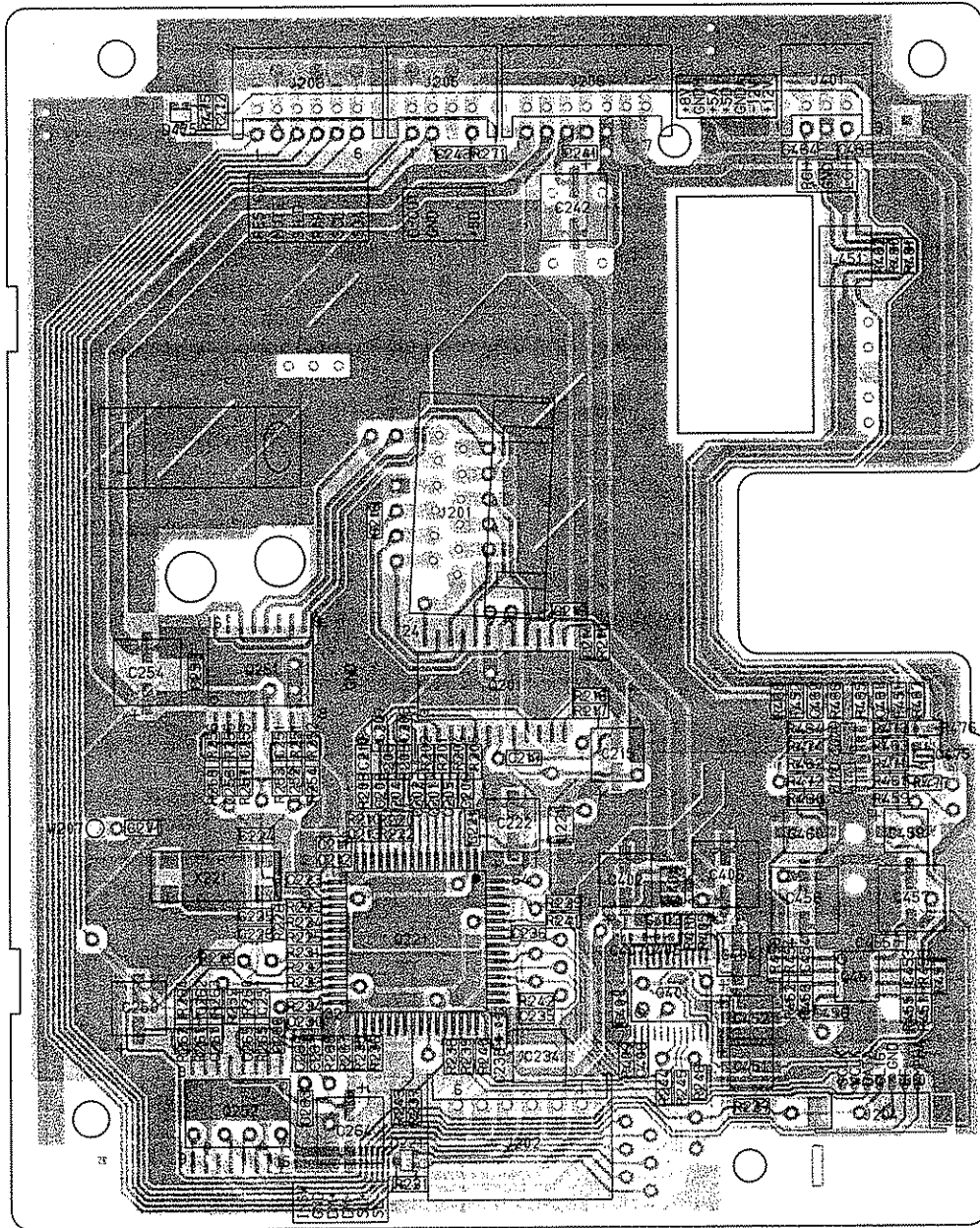
No.	NAME	SIG.NAME	I/O	ACTIVE	FUNCTION
1	P10(INT0)	POWER_DOWN	INT	L	POWER DOWN
2	P11(INT1)	VOLUM_UP	OUT	H	VOLUME UP
3	P12(INT2)	VOLUM_DOWN	OUT	H	VOLUME DOWN
4	P13(DV0)	POWER_RLY	OUT	H	POWER ON
5	P14		OUT	-	
6	P15	TUNER_STEREO	IN	L	TUNER STEREO
7	P16	TUNER_SD	IN	L	TUNER SD
8	P17	EDIT	OUT	L	EDIT ON
9	TEST		GND	-	GND
10	P21(XTIN)	32.768kHz	IN	-	X-TAL
11	P22(XTOUT)	32.768kHz	OUT	-	X-TAL
12	RESET	RESET	IN	L	RESET
13	XIN	8.0MHz	IN	-	X-TAL
14	XOUT	8.0MHz	OUT	-	X-TAL
15	VSS		GND	-	GND
16	P20(INT5)	HOLD	IN	L	HOLD IN
17	P30(INT3)	PC-5 IN	INT	L	PC-5
18	P31	PC-5 OUT	IN	L	PC-5
19	P32(SCK)	CLK	OUT	H	CL(CCB BUS)
20	P33(SI)	DATA_IN	IN	H	DI(CCB BUS)
21	P34(SO)	DATA_OUT	OUT	H	DI(CCB BUS)
22	P35(HSCK)	CE	OUT	H	CE(CCB BUS)
23	P36	CD7_RESET	OUT	L	CD7 RESET
24	P37(HSO)		OUT	L	PICUP POSITION L:IN
25	P00	SILD	OUT	L	CD7 CONTROL
26	P01	RAB	OUT	H	CD7 CONTROL
27	P02	SCL	OUT	H	CD7 CONTROL
28	P03	SDA	IN/OUT	H	CD7 CONTROL
29	P04	TRAY_OPEN	OUT	H	TRAY OPEN
30	P05	TRAY_CLOSE	OUT	H	TRAY CLOSE
31	P06	DOOR_OPEN	OUT	H	DOOR OPEN
32	P07	DOOR_CLOSE	OUT	H	DOOR CLOSE
33	VDD	+5V		-	VDD
34	P60(G15)	-		-	N.C.
35	P61(G14)	-		-	N.C.
36	P62(G13)	-		-	N.C.
37	P63(G12)	TUNER_MUTE	OUT	H	TUNER MUTE ON
38	P64(G11)	AUDIO_MUTE	OUT	H	AUDIO MUTE ON
39	P65(G10)	DOOR_TOUCH	IN	L	DOOR TOUCH
40	P66(G9)	G9	OUT	H	DIGIT OUTPUT

No.	NAME	SIG.NAME	I/O	ACTIVE	FUNCTION
41	P67(G8)	G8	OUT	H	DIGIT OUTPUT
42	P70(G7)	G7	OUT	H	DIGIT OUTPUT
43	P71(G6)	G6	OUT	H	DIGIT OUTPUT
44	P72(G5)	G5	OUT	H	DIGIT OUTPUT
45	P73(G4)	G4	OUT	H	DIGIT OUTPUT
46	P74(G3)	G3	OUT	H	DIGIT OUTPUT
47	P75(G2)	G2	OUT	H	DIGIT OUTPUT
48	P76(G1)	G1	OUT	H	DIGIT OUTPUT
49	P77(G0)	G0	OUT	H	DIGIT OUTPUT
50	P80(S0)	S0	OUT	H	SEGMENT OUTPUT
51	P81(S1)	S1	OUT	H	SEGMENT OUTPUT
52	P82(S2)	S2	OUT	H	SEGMENT OUTPUT
53	P83(S3)	S3	OUT	H	SEGMENT OUTPUT
54	P84(S4)	S4	OUT	H	SEGMENT OUTPUT
55	P85(S5)	S5	OUT	H	SEGMENT OUTPUT
56	P86(S6)	S6	OUT	H	SEGMENT OUTPUT
57	P87(S7)	S7	OUT	H	SEGMENT OUTPUT
58	P90(S8)	S8	OUT	H	SEGMENT OUTPUT
59	P91(S9)	S9	OUT	H	SEGMENT OUTPUT
60	P92(S10)	S10	OUT	H	SEGMENT OUTPUT
61	P93(S11)	S11	OUT	H	SEGMENT OUTPUT
62	P94(S12)	S12	OUT	H	SEGMENT OUTPUT
63	P95(S13)	S13	OUT	H	SEGMENT OUTPUT
64	P96(S14)	S14	OUT	H	SEGMENT OUTPUT
65	P97(S15)	S15	OUT	H	SEGMENT OUTPUT
66	VKK	-B		-	FL POWER SUPPLY
67	P40(KEY0)	*	IN	-	N.C.
68	P41(KEY1)	*	IN	-	N.C.
69	P42(KEY2)	*	IN	-	N.C.
70	P43(KEY3)	*	IN	-	N.C.
71	P44(KEY4)	*	IN	-	N.C.
72	P45(KEY5)	*	IN	-	N.C.
73	P46(A/D)	KEY_IN_3	IN	LEVEL	KEY
74	P47(A/D)	KEY_IN_2	IN	LEVEL	KEY
75	P50(A/D)	KEY_IN_1	IN	LEVEL	KEY
76	P51(A/D)	DOOR_SW	IN	LEVEL	CLOSE,OPEN,OTHER
77	P52(A/D)	TRAY_SW	IN	LEVEL	CLOSE,OPEN,OTHER
78	P53(A/D)	*	IN	-	N.C.
79	P54	VER_SET0	IN	H	79 0 F 1 U 0 K 1 /2
80	P55	VER_SET1	IN	H	80 0 F 1 U 0 K 1 /2

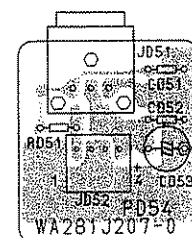


PD04 P.C. Board

Q251	Q201	Q472
Q252	Q221	Q471 Q475
	Q401	Q451

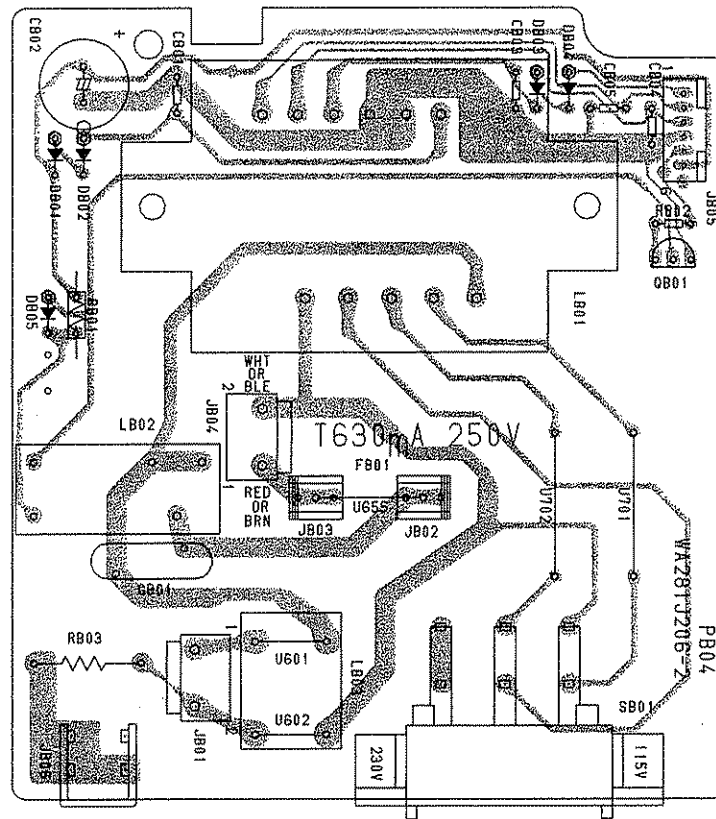


PD54 P.C. Board

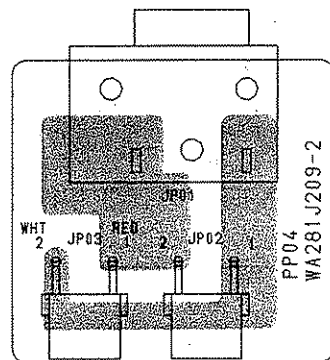


PB04 P.C. Board

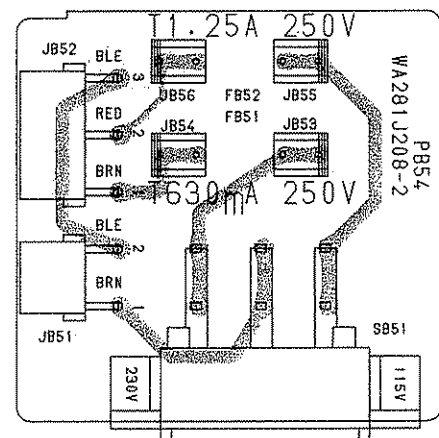
QB01

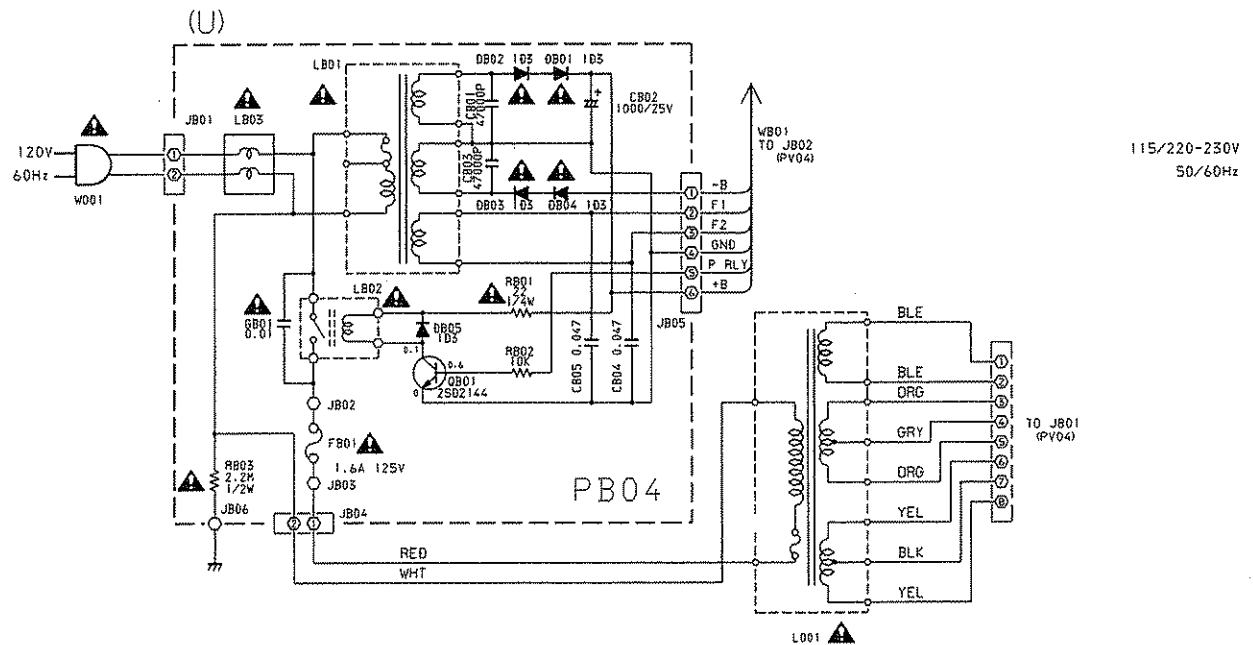
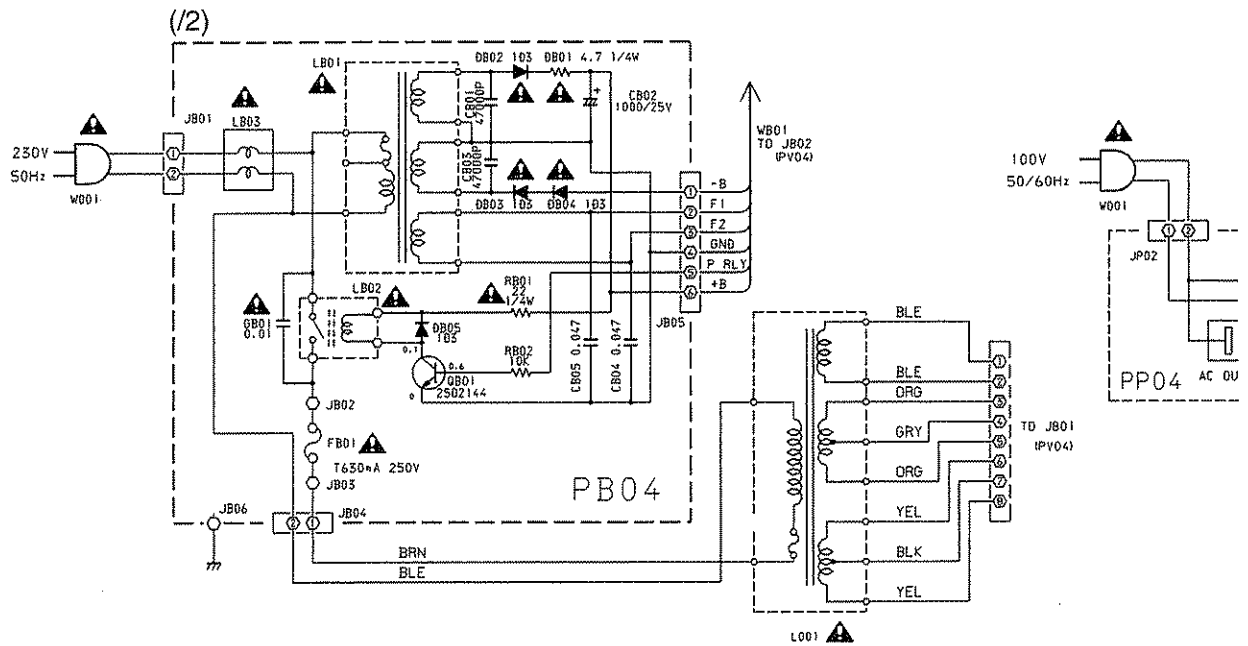


PP04 P.C. Board

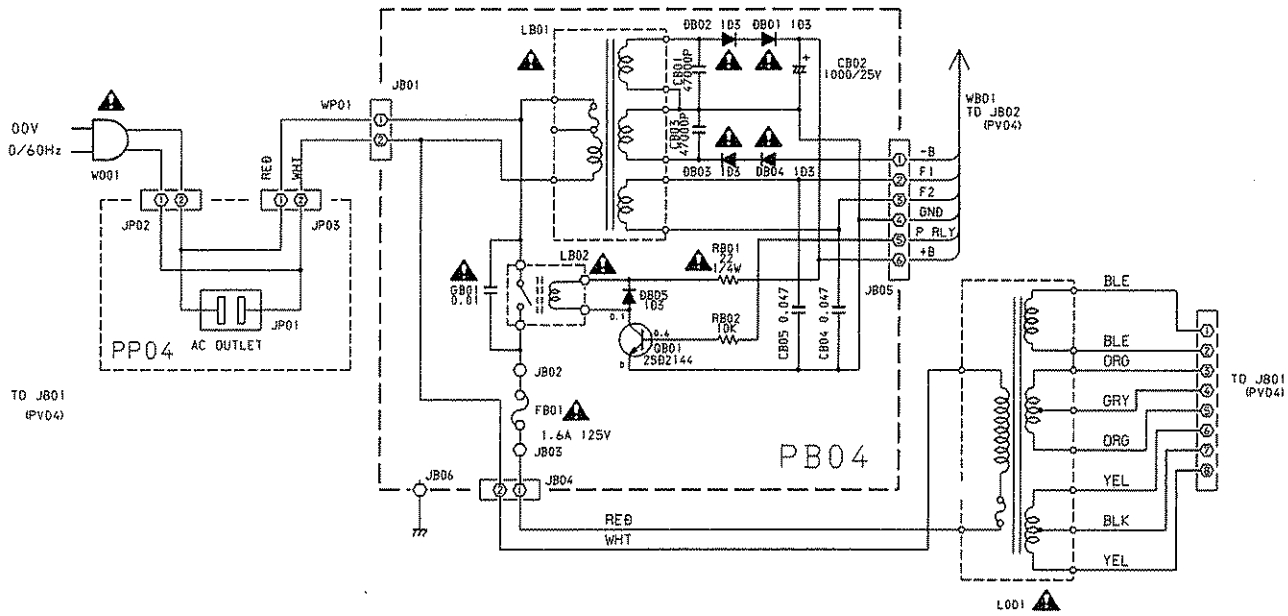


PB54 P.C. Board

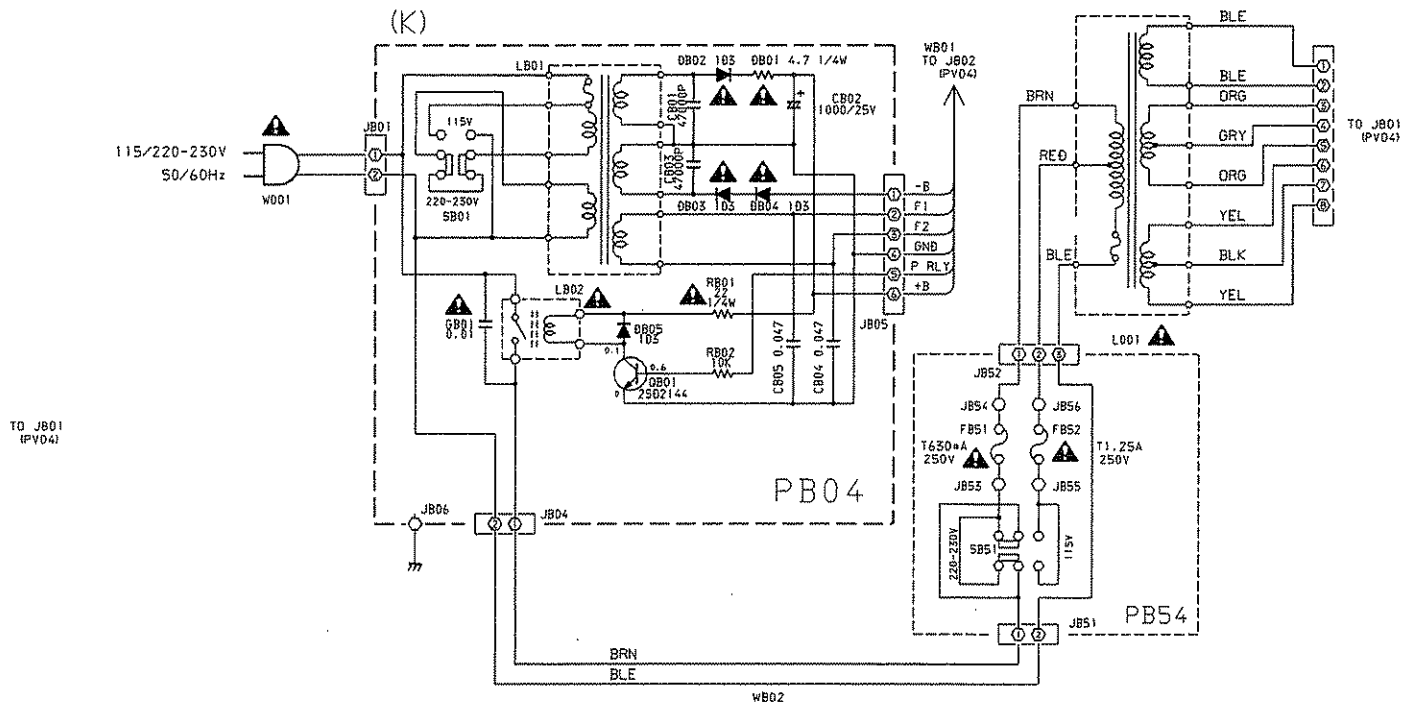




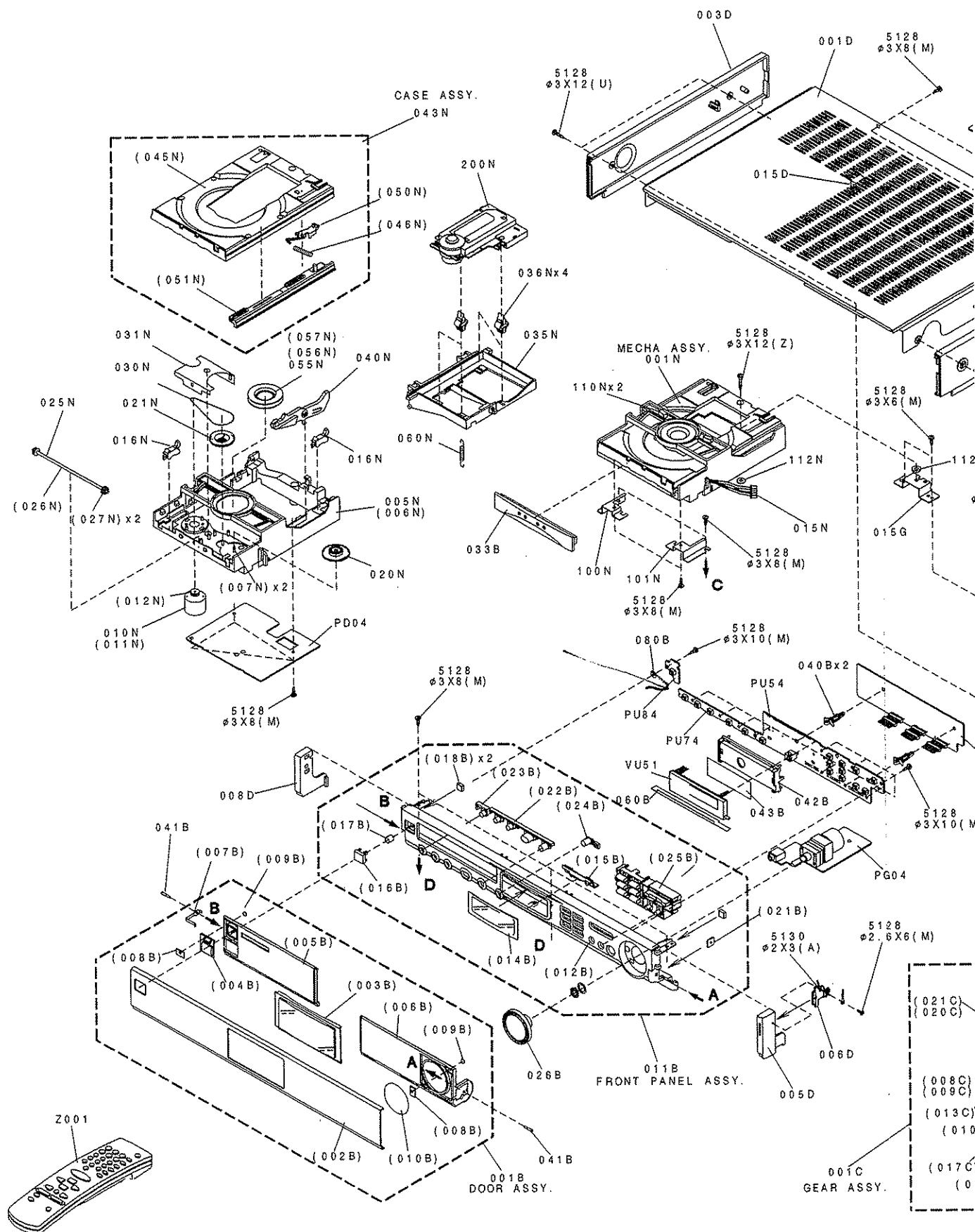
(F)



(K)



5. EXPLODED VIEW AND PARTS LIST



(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
001B	FBV, KCB, UCB, /2B	4822 443 10933	ESCUTCHEON, DOOR AL PANEL ASSY CR BLACK	281J063510	013C		4822 358 31264	BELT	446T264010
001B	FTB, KBZ, /2A	4822 443 10934	ESCUTCHEON, DOOR AL PANEL ASSY CR TITAN	281J063500	014C		4822 522 33388	GEAR	446T058010
001B	/2M	*REMARK	ESCUTCHEON, DOOR AL PANEL ASSY CR BLANK		015C		4822 492 33411	SPRING	446T115010
011B	FBV, KCB, UCB		FRONT PANEL ASSY CR BLACK	281J248510	016C		4822 271 30768	MINI SW., LEAF	SM01011530
011B	FTB, KBZ		FRONT PANEL ASSY CR TITAN	281J248500	017C		4822 462 71954	STOPPER, WASHER	204K114210
011B	/2A	4822 459 04962	FRONT PANEL ASSY CR TITAN	281J248520	001D	FBV, KCB, UCB		LID, TOP COVER CR BLACK	157J257240
011B	/2B/2M	4822 459 04961	FRONT PANEL ASSY CR BLACK	281J248530	001D	FTB, KBZ		LID, TOP COVER CR TITAN	157J257210
012B	FBV, KCB, UCB		FRONT PANEL CR BLACK	281J248110	002D	FBV, KCB, UCB, /2B	4822 426 10559	SIDE PANEL, R BLACK	281J249010
012B	FTB, KBZ, /2A		FRONT PANEL CR TITAN	281J248010	002D	FTB, KBZ, /2A	4822 426 30156	SIDE PANEL, R TITAN	157J249010
012B	/2A	4822 459 04964	FRONT PANEL CR TITAN	281J248050	002D	/2M	*REMARK	SIDE PANEL, R BLANK	
012B	/2B/2M	4822 459 04963	FRONT PANEL CR BLACK	281J248150	003D	FBV, KCB, UCB, /2B	4822 426 10561	SIDE PANEL, L BLACK	281J249020
014B		4822 450 62123	WINDOW, FL	271K158010	003D	FTB, KBZ, /2A	4822 426 30157	SIDE PANEL, L TITAN	157J249020
015B		4822 381 11434	LENS, IR	271K355010	003D	/2M	*REMARK	SIDE PANEL, L BLANK	
016B	FBV, KCB, UCB, /2B/2M	4822 410 62877	BUTTON, POWER BLACK	157J270130	005D	FBV, KCB, UCB, /2B	4822 426 10562	BUSHING, SIDE R BLACK	281J259010
016B	FTB, KBZ, /2A	4822 410 62813	BUTTON, POWER TITAN	157J270030	005D	FTB, KBZ, /2A	4822 532 12253	BUSHING, SIDE R TITAN	157J259010
017B		4822 492 33409	SPRING, POWER	271K115010	005D	/2M	*REMARK	BUSHING, SIDE R BLANK	
018B		4822 526 20213	MAGNET ASSY	271K305500	008D		4822 281 50181	CONTACTOR, 2 TOUCH	294K123010
021B		4822 505 11161	NUT	446T011010	008D	FBV, KCB, UCB, /2B	4822 426 10563	BUSHING, SIDE L BLACK	281J259020
025B	FBV, KCB, UCB, /2B/2M		BUTTON, FUNCTION BLACK	281J270110	008D	FTB, KBZ, /2A	4822 532 12254	BUSHING, SIDE L TITAN	157J259020
025B	FTB, KBZ, /2A		BUTTON, FUNCTION TITAN	281J270010	008D	/2M	*REMARK	BUSHING, SIDE L BLANK	
026B	FBV, KCB, UCB, /2B/2M	4822 410 11781	KNOB, MASTER VOLUME BLACK	281J154110	005G		4822 462 42068	LEG, FRONT	271K057110
026B	FTB, KBZ, /2A	4822 410 11782	KNOB, MASTER VOLUME TITAN	281J154010	006G		4822 462 42069	LEG, REAR	271K057120
033B	FBV, KCB, UCB, /2B/2M	4822 442 01348	ESCUTCHEON, TRY CD BLACK	294K063320	902G	F,U,/2	4822 532 60948	BUSHING	450H259010
033B	FTB, KBZ, /2A	4822 454 30501	ESCUTCHEON, TRY CD TITAN	294K063020	902G	K	4822 532 61184	BUSHING	085J259010
041B		4822 502 21585	SCREW, DOOR	446T010010	001N			MECHANISM, CD LOADER LM-300	305K304560
001C		4822 522 33389	GEAR ASSY	446T058500	010N		4822 361 21741	D.C MOTOR	MM0030002R
007C		4822 404 21283	LEVER	446T354010	016N		4822 271 30873	MINI SW.	SM01020620
008C		4822 361 21687	D.C MOTOR ASSY	*MM000630R	020N		4822 522 33521	GEAR	305K058030
012C		4822 528 40363	PULLEY	446T262020	021N		4822 528 81537	PULLEY	305K262010
					025N		4822 522 33522	GEAR	305K058500
					030N		4822 358 31314	BELT	305K264010
					035N		4822 443 51265	CASE	305K064110
					036N		4822 462 72118	BUFFER, SUSPENSION	305K056010
					040N		4822 402 20104	ARM	305K002010
					043N		4822 444 50732	CASE	305K064500
					046N		4822 492 33494	SPRING	305K115010
					050N		4822 528 30429	CAM	305K054010
					051N		4822 522 33519	GEAR	305K058010

*REMARK : Remarked parts for are not standard spare parts. If it is necessary for repair, Please contact to MARANTZ EUROPE B.V..

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

DN	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
	446T264010	055N		4822 401 11582	CLAMPER	305K005500
	446T058010	060N		4822 492 33495	SPRING	305K115020
	446T115010	200N		4822 691 30278	MECHANISM, CDM 12.1	292K304500
	SM01011530					
R	204K114210	▲ L001	F		MAINS TRANSFORMER 100V	TS16674020
		▲ L001	K		MAINS TRANSFORMER	TS16674040
R BLACK	157J257240				115V 230V	
		▲ L001	/2	4822 146 10968	MAINS TRANSFORMER 230V	TS16674010
		▲ L001	U		MAINS TRANSFORMER 120V	TS16674030
R TITAN	157J257210	▲ W001	F	4822 321 11359	MAINS CORD	YC01800800
		▲ W001	K/2	4822 321 11343	MAINS CORD	YC01800790
ICK	281J249010	▲ W001	U		MAINS CORD, UL CSA	YC01800780
					PACKING	
		001T	F		USER GUIDE	281J851110
AN	157J249010	001T	K,U		USER GUIDE	281J851250
		001T	/2	4822 736 16048	USER GUIDE	281J851310
INK		Z001		4822 219 10474	REMOTE COMMANDER	ZK281J0010
.CK	281J249020				RC2020CR	
AN	157J249020					
NK						
BLACK	281J259010					
TITAN	157J259010					
BLANK						
UCH	294K123010					
ILACK	281J259020					
TITAN	157J259020					
ILANK						
	271K057110					
	271K057120					
	450H259010					
	085J259010					
JADER	305K304560				NOT STANDARD SPARE PARTS	
		001S	F,U		PACKING CASE	281J801010
	MM0030002R	002S	F,U		CUSHION, L SIDE	157J809010
	SM01020620	003S	F,U		CUSHION, R SIDE	157J809020
	305K058030	Z002	F		BATTERY, UM-4NEPH/2S	ZF24302000
	305K262010	Z003		4822 157 63083	ANT COIL, LA-700HB LOOP	LA00055010
	305K058500				ANT.	
	305K264010	Z004	F,U		EXT.ANTENNA, FM FEEDER	ZA02000070
	305K064110	Z004	K/2		EXT.ANTENNA, FM FEEDER	ZA02800020
ION	305K056010				W/CONNECTOR	
	305K002010	Z005	F,U	4822 264 30265	PLUG, ANT PLUG ADAPTOR	YP90000310
	305K064500	Z006	K	4822 267 31647	JACK, AC PLUG ADAPTER	YJ04001960
	305K115010				CCT59/2M-0701	
	305K054010	Z007	F		CONNECTIVE CORD, SPK 5M	ZD05000010
	305K058010				X2	

6. SERVICE PROGRAM

1. How to into the Service Mode

(Segment check mode)

- 1) Confirm the product status in the "POWER OFF" (STAND-BY) mode and remove the mains plug from the mains outlet.
- 2) While holding the "DISPLAY" + "UP" buttons together and put the mains plug to the mains outlet. Keep the front door open, while this operation. (Door will be closed automatically.)
- 3) The FL display shows "FL CHECK" three seconds.
- 4) After that all segments turn off, then the segments light one by one except the alpha-numeric segments.
- 5) Then all segments turn off, after that the alpha-numeric segments light one by one.
- 6) Finally all segments are blinked, then return to the 4) and continue procedures.
- 7) Segment check mode will continue until press a button ("PLAY/PAUSE" or "FM/AM").

[REMARK]

Segments check mode can not be released by pressing of other buttons.

2. Tracking point memory mode

- 1) Press the "FM/AM" button while the segments check mode.
- 2) The FL display shows "TR FREQ" three seconds. Then tracking point frequencies have recalled and the source function has turned to "TUNER".
- 3) Frequencies have preset as tables below.
(User programmed frequencies will be deleted.)

	VERSION	P1 - P3	P4	P5	P6	
FM	JAPAN (F)	76.0	78.0	83.0	88.0	MHz
	FAR EAST(K),USA (U),EUROPE (/2)	87.5	90.0	98.0	106.0	

	VERSION	P7	P8	P9	P10	P11	P12	P13	
AM	JAPAN (F)	603	999	1404	531	←	←	←	kHz
	USA (U)	600	1000	1400	520	←	←	←	
	WITHOUT LW (K)	603	999	1404	531	←	←	←	
	WITH LW (/2)	603	999	1404	171	207	270	152	

No frequencies are memorized in preset No. P14-P30.

P14-P30 には何もメモリーされません。

[REMARK]

How to clear preset memories;
See the content 5. All clear.

サービス・モード機能

1. サービスモードの入れ方

(セグメントチェックモード)

- 1) 電源プラグを接続しPOWER OFF (STAND-BY)の状態にし、電源プラグをはずす。
- 2) 本体の「DISPLAY」+「UP」ボタンを押しながら電源プラグを接続する。このとき、フロントのドアが自動的に閉まるため、強制的にドアを押さえて閉じないようにする。
- 3) サービスモードにはいり、ディスプレイに"FL CHECK"と3秒間表示される。
- 4) 一度全消灯し、14セグメントと7セグメントを除いて、右上から順次点灯する。
- 5) 次に、消灯し14セグメントと7セグメントが1本ずつ順次点灯する。
- 6) 最後に、FLの全てのセグメントが点滅し、始めからの動作を繰り返す。(4.へ戻る)
- 7) 「PLAY/PAUSE」ボタン(「CD TESTモード」へ)、または「FM/AM」ボタン(「トラッキングポイント周波数メモリーモード」へ)のいずれかのボタンが押されるまで、セグメントチェックが繰り返される。(他のキーは無効)

2. トラッキングポイント周波数メモリーモード

- 1) 「セグメントチェックモード(サービスモード)」の状態にて、本体の「FM/AM」ボタンを押す。
- 2) ディスプレイに"TR FREQ"と3秒間表示され、トラッキングポイント周波数がメモリーされる。(「トラッキングポイント周波数メモリーモード」になり、ファンクションは、TUNERとなる。)
- 3) 「トラッキングポイント周波数メモリーモード」になると、下表の周波数がそれぞれのプリセット番地にメモリーされる。(前のデータがある場合はオーバーライトされる。)

※ メモリーをクリアするには… "5. オールクリア(マイコンの設定を出荷状態にするには)"を参照。

3. CD Test mode

- 1) Press the "PLAY/PAUSE" button while in the segments check mode.
- 2) The FL display shows "CD TEST" three seconds.
- 3) Press the "UP" button, then the sledge move to the outside. Press the "DOWN" button then the sledge move to the inside. Press the "F/P" button while the sledge is moving, then the sledge stop. Press the "DISPLAY" button, then the laser pick up unit is giving out the beam. Press the "DISPLAY" button again then the laser pick up unit stop beam out. All operations are available with out the Disc.
- 4) If any ERROR is happened, the display shows "CD ERR X". (X is a ERROR code.) The ERROR message will not be clear until pressing "CD OPEN/CLOSE", "STOP" or "POWER" buttons.

Error Code	Description
1	The sledge switch not turn on.
2	The sledge switch not turn off.
3	The laser pick up unit not focus.
4	The Tracking is not fixed.
5	The spindle motor not locked.

4. How to stop "Service mode"

Press the "POWER" button while in every service mode.
[REMARK]

The microprocessor will not be clear by above operation.

5. How to "All clear"

- 1) Press the "F/P" button and "F.SEL" button with "STOP" button while in the Tracking point memory mode.
- 2) The display shows "CLEAR" two seconds. Then all memories will be clear and product will be in POWER OFF (STAND-BY).

3. CD TEST モード

- 1) 「セグメントチェックモード(サービスモード)」の状態にて、本体の「PLAY/PAUSE」ボタンを押す。
- 2) ディスプレイに「CD TEST」と3秒間表示される。(「CD TEST」になる。)
- 3) 「CD TESTモード」でCD停止状態(Disc無しでも可)の時、「UP」ボタンでスレッジが外周に「DOWN」ボタンで内周に移動し、「F/P」ボタンで停止する。また、「DISPLAY」ボタンでレーザーの照射をON/OFFする。
- 4) 「CD TESTモード」中エラーが発生した時は、ディスプレイに「CD ERR X」(「X」はエラーコード)と表示される。表示は、「CD OPEN/CLOSE」、「STOP」、「POWER」のいずれかのボタンが押されるまで継続する。

エラーコード	エラーの詳細
1	スレッジのスイッチがONしない
2	スレッジのスイッチがOFFしない
3	フォーカスが合わない
4	トラッキングが合わない
5	スピンドルモーターがロックしない

4. サービスモードから抜けるには

サービスモードから抜けるには、「CD TESTモード」、「トラッキングポイント周波数メモリーモード」の状態にて「POEWR」ボタンを押す。(注意:メモリーのクリアはされない。)または、オールクリアをする。

5. オールクリア(マイコンの設定を出荷状態にするには)

- 1) 「トラッキングポイント周波数メモリーモード」の状態にて、「F/P」+「F.SEL」ボタンを押しながら「STOP」ボタンを押す。
- 2) ディスプレイに「CLEAR」と2秒間表示し、メモリーがクリアされた後、POWER OFF(STAND-BY)の状態になる。

ASSIGNMENT OF COMMON PARTS CODES.

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

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

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PB04-BACK UP		C205		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300
			PB04-CAPACITORS		C206		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300
CB01		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	C207		4822 126 11724	CER., 560pF $\pm 5\%$ W5R	DK96561300
CB02			ELECT, 1000 μ F 25V	EA10802510	C208		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300
CB03		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	C210		4822 126 12516	CER., 1000pF $\pm 10\%$ B 50V	DK96102300
CB04		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	C211		4822 122 33777	CER., 47pF $\pm 5\%$ CG 50V	DD95470300
CB05		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	C212		4822 126 11567	CER., 0.022 μ F $\pm 10\%$ XTR 16V	DK96223200
			PB04-RESISTORS		C213		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ DB01	K,2	4822 113 90107	FUSIBLE, 4.7 Ω $\pm 5\%$ 1/4W	NH05047140	C214		4822 126 12516	CER., 1000pF $\pm 10\%$ B 50V	DK96102300
RB01		4822 050 22209	RES., 22 Ω $\pm 5\%$ 1/4W	GG05220140	C215		4822 124 11131	TANTL., 47 μ F 6.3V	EY47600620
RB02			RES., 10k Ω $\pm 5\%$ 1/6W	GD05103160	C216		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ RB03	U		RES., 2.2M Ω $\pm 10\%$ 1/2W	RC10225820	C217		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			PB04-SEMICONDUCTORS		C218		4822 126 11567	CER., 0.022 μ F $\pm 10\%$ XTR 16V	DK96223200
▲ DB01	F,U	4822 130 82421	DIODE, 1D3	HD20002710	C221		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ DB01	K,2	4822 113 90107	FUSIBLE, 4.7 Ω $\pm 5\%$ 1/4W	NH05047140	C222		4822 124 11131	TANTL., 47 μ F 6.3V	EY47600620
▲ DB02					C223		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ DB05		4822 130 82421	DIODE, 1D3	HD20002710	C224		4822 122 33757	CER., 18pF $\pm 5\%$ GR39	DD95180300
					C225		4822 122 33757	CER., 18pF $\pm 5\%$ GR39	DD95180300
QB01		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0	C230		4822 122 33777	CER., 47pF $\pm 5\%$ CG 50V	DD95470300
			PB04-MISCELLANEOUS		C233		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ FB01	F		FUSE, 1.6A 125V FBT	FS10160350	C234		4822 124 11131	TANTL., 47 μ F 6.3V	EY47600620
▲ FB01	/2	4822 070 36301	FUSE, T630MA 250V	FS10063850	C236		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			SEMKO/BS LISTED		C241		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ FB01	/2	4822 070 36301	FUSE, T630MA 250V	FS10063850	C242		4822 124 10772	TANTL., 100 μ F 6.3V	EY10700620
			SEMKO/BS LISTED		C243		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ FB01	/2	4822 070 36301	FUSE, T630MA 250V	FS10063850	C251		4822 126 11685	CER., 4700pF $\pm 10\%$ B 50V	DK96472300
			SEMKO/BS LISTED		C252		4822 126 11568	CER., 470pF GR39	DK96471300
▲ FB01	U		FUSE, 1.6A 125V FBT	FS10160350	C253		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
					C254		4822 124 41842	TANTL., 47 μ F 16V	EY47601620
▲ GB01		4822 122 33276	CER., DE7150 F 103M	DK17103840	C255		4822 126 11685	CER., 4700pF $\pm 10\%$ B 50V	DK96472300
▲ LB01	F		MAINS TRANSFORMER 100V	TS14823270	C256		4822 126 11568	CER., 470pF GR39	DK96471300
▲ LB01	K	4822 146 10878	MAINS TRANSFORMER 115V 230V	TS14823310	C257		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
					C258		4822 124 11131	TANTL., 47 μ F 6.3V	EY47600620
▲ LB01	/2	4822 146 10879	MAINS TRANSFORMER 230V	TS14823290	C261		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ LB01	U		MAINS TRANSFORMER 120V	TS14823280	C262		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ LB02		4822 280 80754	RELAY, VS-12MB DC12V	LY10120380	C263		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ LB03	/2	4822 157 11583	10mH 1A	FN01010060	C265				
			UF2327L-103Y1R0-01,		C266		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
▲ LB03	U	4822 157 70419	LF-4D-102	FN01020020	C268				
▲ SB01	K	4822 277 21825	SLIDE SW., SDKGA4 SEMKO	SS02021510	C401		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			PB54-VOLTAGE SELECTOR CIRCUIT BOARD [K ONLY]		C402		4822 124 11131	TANTL., 47 μ F 6.3V	EY47600620
▲ FB51	K	4822 070 36301	FUSE, T630MA 250V	FS10063850	C403		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			SEMKO BS LISTED		C404		4822 124 11074	TANTL., 10 μ F 16V	EY10601620
▲ FB52	K	4822 070 31252	FUSE, T1.25A 250V	FS10125850	C405		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			SEMKO/BS LISTED		C406		4822 124 10772	TANTL., 100 μ F 6.3V	EY10700620
▲ SB51	K	4822 277 21825	SLIDE SW., SDKGA4 SEMKO	SS02021510	C407		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			PD04-CD SERVO DECODER DAC CIRCUIT BOARD		C408		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
			PD04-CAPACITORS (CHIP)		C451		4822 124 11074	TANTL., 10 μ F 16V	EY10601620
C201		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300	C452		4822 124 11074	TANTL., 10 μ F 16V	EY10601620
C202		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300	C453		4822 122 33782	CER., 56pF $\pm 5\%$ GR39	DD95560300
C203		4822 126 12495	CER., 1500pF $\pm 10\%$ GR39	DK96152300	C454		4822 122 33782	CER., 56pF $\pm 5\%$ GR39	DD95560300
C204		4822 126 11668	CER., 220pF $\pm 5\%$ CG 50V	DD95221300	C455		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
					C456		4822 126 11687	CER., 0.1 μ F +80%-20%	DK98104200
					C457		4822 124 41842	TANTL., 47 μ F 16V	EY47601620
					C458		4822 124 41842	TANTL., 47 μ F 16V	EY47601620
					C459		4822 124 11074	TANTL., 10 μ F 16V	EY10601620
					C460		4822 124 11074	TANTL., 10 μ F 16V	EY10601620
					C461		4822 126 11685	CER., 4700pF $\pm 10\%$ B 50V	DK96472300
					C462		4822 126 11685	CER., 4700pF $\pm 10\%$ B 50V	DK96472300
							PD04-RESISTORS (CHIP)		
					R201				
							4822 051 30103	RES., 10k Ω $\pm 5\%$ 1/16W	NN05103610
					R206				
					R209		4822 051 30222	RES., 2.2k Ω $\pm 5\%$ 1/16W	NN05222610

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ART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
95221300	R210		4822 051 30223	RES., 22kΩ ±5% 1/16W	NN05223610	Q252		4822 209 16372	IC, TDA7073AT	HC10165490
95221300	R211		4822 051 30104	RES., 100kΩ ±5% 1/16W	NN05104610				SOP DUAL BTL DRIVER	
96561300	R220		4822 116 82487	RES., 0Ω 1/16W	NN05000610	Q401		4822 209 15591	IC, AK4311A 1BIT DAC	HC10020480
95221300	R221		4822 116 82487	RES., 0Ω 1/16W	NN05000610	Q451		4822 209 83357	IC, NJM4560M	HC10029090
96102300	R222		4822 051 30274	RES., 270kΩ ±5% 1/16W	NN05274610				PD04-MISCELLANEOUS	
95470300	R223		4822 051 30105	RES., 1MΩ ±5% 1/16W	NN05105610				FERRITE BEAD BK2125HM102	FN31010020
96223200	R224		4822 051 30331	RES., 330Ω ±5% 1/16W	NN05331610	F451		4822 156 21729	FERRITE BEAD BK2125HM102	FN31010020
98104200	R225		4822 051 30331	RES., 330Ω ±5% 1/16W	NN05331610	F452		4822 156 21729		
96102300	R226		4822 116 82487	RES., 0Ω 1/16W	NN05000610				CHIP INDUCTANCE,	LU12103010
47600620	R229		4822 051 30223	RES., 22kΩ ±5% 1/16W	NN05223610	L221		4822 157 53872	NL322522-100K	LU12103010
98104200	R231		4822 116 83208	RES., 12kΩ ±5% 1/16W	NN05123610				CHIP INDUCTANCE,	LU12103010
98104200	R232		4822 116 83208	RES., 12kΩ ±5% 1/16W	NN05123610	L401		4822 157 53872	NL322522-100K	FN21000040
96223200	R233		4822 116 83208	RES., 12kΩ ±5% 1/16W	NN05123610				3LINE COMN COIL	
98104200	R234		4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610	L451		4822 157 11276	ZCYS51R5-M3PAT	
47600620	R235		4822 116 83208	RES., 12kΩ ±5% 1/16W	NN05123610					
98104200	R236		4822 116 83208	RES., 12kΩ ±5% 1/16W	NN05123610					
95180300	R238		4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610	X221		4822 242 10883	CRYSTAL, CM309S	JX16002360
95180300	R239		4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610				16.9344MHz	
95470300	R240		4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610				PD54-OPT OUT	
98104200	R241		4822 051 30222	RES., 2.2kΩ ±5% 1/16W	NN05222610				CIRCUIT BOARD .	
47600620	R242		4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610				PD54-CAPACITORS	
98104200	R243		4822 116 82487	RES., 0Ω 1/16W	NN05000610				CER., 47pF ±5%	DA15470110
98104200	R251		4822 051 30102	RES., 1kΩ ±5% 1/16W	NN05102610	CD51		4822 126 10513		DA17473110
Y10700620	R253		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610	CD52		4822 122 40589	CER., 0.047μF ±20% 50V	EJ47601610
K98104200	R254		4822 116 82487	RES., 0Ω 1/16W	NN05000610	CD53		4822 124 23056	ELECT, 47μF 16V	
K96472300	R255		4822 116 83207	RES., 1.2kΩ ±5% 1/16W	NN05122610				PD54-RESISTOR	
K96471300	R257		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610				RES., 100Ω ±5% 1/6W	GD05101160
K98104200	R258		4822 116 82487	RES., 0Ω 1/16W	NN05000610	RB02				
Y47601620	R259		4822 051 30102	RES., 1kΩ ±5% 1/16W	NN05102610				PD54-MISCELLANEOU	
K96472300	R260		4822 051 30102	RES., 1kΩ ±5% 1/16W	NN05102610				OPT. CONNECTOR, GP1F32T	YJ15000090
K96471300	R261		4822 051 30102	RES., 1kΩ ±5% 1/16W	NN05102610	JD51		4822 267 31369	OPTICAL OUTPUT	
K98104200	R263		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610				PG04-MOTOR VR	
Y47600620	R264		4822 116 82487	RES., 0Ω 1/16W	NN05000610				HEAD PHONE AMP	
K98104200	R265		4822 051 30102	RES., 1kΩ ±5% 1/16W	NN05102610				CIRCUIT BOARD	
K98104200	R267		4822 116 82487	RES., 0Ω 1/16W	NN05000610				PG04-CAPACITORS	
K98104200	R268		4822 116 82487	RES., 0Ω 1/16W	NN05000610				CER., 0.047μF ±20% 50V	DA17473110
	R405		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610	CG05		4822 122 40589		
K98104200	R409		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610	C751			ELECT, 4.7μF 50V	EJ47505010
Y47600620	R410		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610					
K98104200	R451		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610	C754		4822 124 23057		
Y10601620	R452		4822 051 30103	RES., 10kΩ ±5% 1/16W	NN05103610	C755		4822 122 40589	CER., 0.047μF ±20% 50V	DA17473110
K98104200	R453		4822 051 30273	RES., 27kΩ ±5% 1/16W	NN05273610	C756		4822 122 40589	CER., 0.047μF ±20% 50V	DA17473110
Y10601620	R454		4822 051 30273	RES., 27kΩ ±5% 1/16W	NN05273610	C761		4822 122 40586	CER., 0.01μF ±20% 25V	DA17103110
K98104200	R455		4822 051 30682	RES., 6.8kΩ ±5% 1/16W	NN05682610	C762		4822 122 40586	CER., 0.01μF ±20% 25V	DA17103110
Y10700620	R456		4822 051 30682	RES., 6.8kΩ ±5% 1/16W	NN05682610				PG04-CAPACITORS (COMMON)	
K98104200	R457		4822 051 30154	RES., 150kΩ ±5% 1/16W	NN05154610				ELECTROLYTIC CAPACITOR	
K98104200	R458		4822 051 30154	RES., 150kΩ ±5% 1/16W	NN05154610				±20% :C757 C758	
Y10601620	R459		4822 051 30223	RES., 22kΩ ±5% 1/16W	NN05223610					
EY10601620	R460		4822 051 30223	RES., 22kΩ ±5% 1/16W	NN05223610					
JD95560300	R461									
JD95560300			4822 051 30101	RES., 100Ω ±5% 1/16W	NN05101610				PLASTIC FILM CAPACITOR	
JK98104200	R464								±5% 50V : CG0-CG04	
DK98104200	R465		4822 116 83339	RES., 56Ω ±5% 1/16W	NN05560610				PG04-RESISTORS	
EY47601620	R466		4822 116 83339	RES., 56Ω ±5% 1/16W	NN05560610				VAR., 100K B X2	RY01040380
EY47601620						RG07		4822 101 11876	WITH TAP MOTOR VOLUM	
EY10601620	D221		4822 130 83715	PD04-SEMICONDUCTORS CHIP DIODE, 1SS301 DAN202U UMT	HZ21005000			4822 113 90107	FUSIBLE, 4.7Ω ±5% 1/4W	NH05047140
EY10601620									PG04-RESISTORS (COMMON)	
DK96472300	Q201		4822 209 33992	IC, TDA1302T HF AMPAND LASER CONT	HC10136490				CARBON FILM FIXED RES.	
DK96472300	Q221		4822 209 91174	IC, SAA7372GP SERVO IC	HC10132490				±5% 1/6W :	
NN05103610	Q251		4822 209 16372	IC, TDA7073AT SOP DUAL BTL DRIVER	HC10165490				R751-R760 RG01-RG06	

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
D751		4822 130 32362	PG04-SEMICONDUCTORS DIODE, 30V 0.1A 1SS176 MA165 1SS254	HD20002000	QU02		4822 130 42715	TRS., 2SA608SP 2SA1048 2SA1309 A933S	HT10001000
D752		4822 130 32362	DIODE, 30V 0.1A 1SS176 MA165 1SS254	HD20002000	QU03 QU04 }		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0
Q751		4822 209 83274	IC, NJM4560D-D	HC10021090	QU08		4822 130 42682	DIG. TRS., DTA144ES UN4113 47k 47k	BA10002000
Q752		4822 130 42682	DIG. TRS., DTA144ES UN4113 47k 47k	BA10002000	QU09 QU10		4822 209 63468 4822 130 42594	IC, NJM082D DIG. TRS., DTC144ES UN4213 47k 47k	HC10066090 BA20002000
F751	U/2	4822 526 10584	PG04-MISCELLANEOUS FERRITE CORE, ZBF503D-00TA	FC90090010	XU01 XU02		4822 242 72066 4822 242 72236	PU04-MISCELLANEOUS SERAMVIB., CST8.0MHz MT CRYSTAL, DT-38 32.768kHz	FQ08004010 XO001001T2
J751		4822 267 31792	JACK H.P., HSJ0917-012140 BLACK/GOLD	YJ01003360				PU54-FTD TACT SW CIRCUIT BOARD	
L751		4822 280 20501	RELAY, MR62-24SR 24V	LY20240410	CU51 CU52 CU53 CU54		4822 124 80087 4822 122 40586 4822 122 40586 4822 122 40586	PU54-CAPACITORS ELECT, 220μF 6.3V CER., 0.01μF ±20% 25V CER., 0.01μF ±20% 25V CER., 0.01μF ±20% 25V	EJ22700610 DA17103110 DA17103110 DA17103110
▲ JP01	F	4822 267 31686	PP04-AC OUTLET CIRCUIT BOARD [F ONLY] PP04-MISCELLANEOU JACK, AC OUTLET 1P CCT1302-0202	YJ04001780	GU51		4822 111 92205	PU54-RESISTOR COMPO., 10kΩ X 4	BW05103250
CU01		4822 126 10935	PU04-U-COM CIRCUIT BOARD PU04-CAPACITORS ELECT, 100μF 6.3V	EJ10700610	R***			PU54-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RU51-RU60	
CU02		4822 124 23295	BIG ELECT, 0.022F BACK UP	EX22300510	QU51		4822 209 16157	PU54-MISCELLANEOUS PHOTO UNIT, PNA4655M00XB	HW10005020
CU03		4822 126 10935	ELECT, 100μF 6.3V	EJ10700610	SU51		4822 276 20508	PUSH SW., TACT	SP01011280
CU04		4822 122 40586	CER., 0.01μF ±20% 25V	DA17103110	SU61		4822 135 00194	DISPLAY UNIT, 10-BT-196GK 10GRD 16SEG	HQ31004410
CU05		4822 126 12867	ELECT., 1000μF 6.3V	OA108006Q0	VU51			PU74-TACT SW CIRCUIT BOARD	
CU06		4822 122 31823	CER., 15pF ±5% CH 50V BLK	DD15150300				PU74-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RU71-RU75	
CU07		4822 122 31823	CER., 15pF ±5% CH 50V BLK	DD15150300	R***			PU74-MISCELLANEOUS	
CU08		4822 122 40617	CER., 0.1μF +80%-20% 50V DC	DD38104010	SU71		4822 276 20508	PUSH SW., TACT	SP01011280
CU09		4822 122 40589	CER., 0.047μF ±20% 50V	DA17473110	SU75			PU84-POWER SW CIRCUIT BOARD	
CU10		4822 122 40617	CER., 0.1μF +80%-20% 50V DC	DD38104010	SU81		4822 276 20508	PU74-MISCELLANEOU PUSH SW., TACT	SP01011280
CU11		4822 126 10408	CER., 220pF ±10% 25V	DA16221110				PV04-MAIN AMP FUNCTION SEL. CIRCUIT BOARD	
CU12		4822 124 23057	ELECT, 4.7μF 50V	EJ47505010	CD01		4822 122 40586	PV04-CAPACITORS CER., 0.01μF ±20% 25V	DA17103110
CU13		4822 122 40589	CER., 0.047μF ±20% 50V	DA17473110	CD11		4822 122 40586	CER., 0.01μF ±20% 25V	DA17103110
CU15		4822 122 40617	CER., 0.1μF +80%-20% 50V DC	DD38104010	CN06		4822 122 40617	CER., 0.01μF ±20% 25V	DA17103110
CU16		4822 122 40617	CER., 0.1μF +80%-20% 50V DC	DD38104010	CV01			CER., 0.1μF +80%-20% 50V DC	DD38104010
GU01		4822 111 92205	PU04-RESISTORS COMPO., 10kΩ X 4	BW05103250	CV04		4822 126 10408	CER., 220pF ±10% 25V	DA16221110
RU03		4822 050 23308	RES., 3.3MΩ ±5% 1/6W	GD05335160	CV08		4822 122 33639	CER., 1000pF ±10% 25V	DA16102110
RU05		4822 050 23308	RES., 3.3MΩ ±5% 1/6W	GD05335160					
RU08		4822 050 23308	RES., 3.3MΩ ±5% 1/6W	GD05335160					
R***			PU04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RU01 RU02 RU04 RU06 RU09-RU18 (RU19 RU20 [K,U/2]) RU21 RU22						
DU01			PU04-SEMICONDUCTORS						
DU12		4822 130 32362	DIODE, 30V 0.1A 1SS176 MA165 1SS254	HD20002000					
QU01		4822 209 16369	MICROPROCESSOR, TMP87CS71F-6713	HU281JT02F					

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RT NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
0001000	CV10		4822 122 33639	CER., 1000pF $\pm 10\%$ 25V	DA16102110				PV04-RESISTORS (COMMON)	
21442A0	CV17		4822 122 40617	CER., 0.1 μ F +80%-20% 50V DC	DD38104010	R***			CARBON FILM FIXED RES.	
	CV18		4822 122 40617	CER., 0.1 μ F +80%-20% 50V DC	DD38104010				$\pm 5\%$ 1/6W : R101-R105 R107	
0002000	CV20		4822 122 40617	CER., 0.1 μ F +80%-20% 50V DC	DD38104010				R108 (R301-R304[2])	
	CV22		4822 126 10364	CER., 100pF $\pm 10\%$ 25V	DA16101110				R701-R710 R721 R722 (R723	
10066090	CV24		4822 126 10364	CER., 100pF $\pm 10\%$ 25V	DA16101110				R724[02]) R804-R806 R808	
0002000	C101		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110				RD01-RD14 RN01-RN21 RN23	
	C102		4822 122 40617	CER., 0.1 μ F +80%-20% 50V DC	DD38104010				RN24 RN25 RV01-RV31	
	C302								PV04-SEMICONDUCTORS	
	3	/2	4822 122 31823	CER., 15pF $\pm 5\%$ CH 50V BLK	DD15150300	DD01		4822 130 33759	ZENER DIODE, 4.7V 04AZ4.7-Y	HD30471000
38004010	C307								RD4.7ES B2 MTZJT-77 4.7B	
001001T2	C310					DD02		4822 130 80317	ZENER DIODE, 5.1V 04AZ5.1-Y	HD30511000
	3	/2	4822 126 10408	CER., 220pF $\pm 10\%$ 25V	DA16221110				RD5.1ES B2 MTZJT-77 5.1B	
	C314					DD03		4822 130 82609	ZENER DIODE, MTZJ2.0B	HD30201000
	C705		4822 122 40103	CER., 5pF ± 0.25 pF C CH 50V	DD10050300	DN01		4822 130 80837	DIODE, HSS81TD 150V 150MA	HD20027010
	C706		4822 122 40103	CER., 5pF ± 0.25 pF C CH 50V	DD10050300	DN02		4822 130 80837	DIODE, HSS81TD 150V 150MA	HD20027010
2700610	C717		4822 122 40586	CER., 0.01 μ F $\pm 20\%$ 25V	DA17103110	DN03		4822 130 82421	DIODE, 1D3 1A 200V	HD20002710
17103110	C718		4822 122 40586	CER., 0.01 μ F $\pm 20\%$ 25V	DA17103110	DN04		4822 130 82421	DIODE, 1D3 1A 200V	HD20002710
17103110	C719		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	DN05		4822 130 82421	DIODE, 1D3 1A 200V	HD20002710
17103110	C720		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	DN07		4822 130 32362	DIODE, 30V 0.1A	HD20002000
	C721	/2	4822 122 40586	CER., 0.01 μ F $\pm 20\%$ 25V	DA17103110				1SS176 MA165 1SS254	
	C722	/2	4822 122 40586	CER., 0.01 μ F $\pm 20\%$ 25V	DA17103110				1SS176 MA165 1SS254	
	C801		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110	DN08		4822 130 32362	DIODE, 30V 0.1A	HD20002000
05103250	C802		4822 122 40589	CER., 0.047 μ F $\pm 20\%$ 50V	DA17473110				1SS176 MA165 1SS254	
	C803		4822 124 22695	ELECT., 2200 μ F 35V	OA22803520	D101		4822 130 33759	ZENER DIODE, 4.7V 04AZ4.7-Y	HD30471000
	C807		4822 124 22571	ELECT., 10 μ F $\pm 20\%$ 50V RA-2	OA10605020				RD4.7ES B2 MTZJT-77 4.7B	
	▲ C812		4822 126 12453	CER., 0.01 μ F +80%-20% 500	DK18103560	D102		4822 130 32362	DIODE, 30V 0.1A	HD20002000
	C813		4822 124 80582	ELECT., 4700 μ F 16V	OA47801620				1SS176 MA165 1SS254	
	C814		4822 124 80773	ELECT., 3300 μ F 6.3V	OA33800620	D103		4822 130 32362	DIODE, 30V 0.1A	HD20002000
	▲ C816		4822 126 12453	CER., 0.01 μ F +80%-20% 500	DK18103560				1SS176 MA165 1SS254	
10005020	▲ C817		4822 126 12866	ELECT., 4700 μ F 50V	EB47805040	D104		4822 130 32362	DIODE, 30V 0.1A	HD20002000
	▲ C818		4822 126 12866	ELECT., 4700 μ F 50V	EB47805040				1SS176 MA165 1SS254	
	C820		4822 122 40617	CER., 0.1 μ F +80%-20% 50V DC	DD38104010	D105	F	4822 130 32362	DIODE, 30V 0.1A	HD20002000
									1SS176 MA165 1SS254	
01011280						D301	/2	4822 130 32362	DIODE, 30V 0.1A	HD20002000
131004410	C***			PV04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR $\pm 10\%$ 50V : C703 C704		▲ D801			DIODE, 1D3	HD20002710
						3				
	C***			ELECTROLYTIC CAPACITOR $\pm 20\%$: (C301 C308 C309[2]) C701-C710 C713-C716 C804 C805 C806 C808 C809 C810 C815 C819		▲ D804		4822 130 82421	DIODE, 1D3	HD20002710
						▲ D806		4822 130 82421	DIODE, 1D3	HD20002710
						▲ D807		4822 130 82421	DIODE, S2VB20	HE20011290
						▲ D808		4822 130 33057	DIODE, 1D3	HD20002710
						▲ D809		4822 130 82421	ZENER DIODE, 18V 04AZ18-Z	HD31801000
						D810		4822 130 80838	RD18ES B2 MTZJT-77 18C	
	C***			PLASTIC FILM CAPACITOR $\pm 5\%$ 50V : C711 C712		▲ D811		4822 130 31007	DIODE, S4VB20	HE20015290
01011280										
						QD01		4822 209 30193	IC, LB1641	HC10279030
	▲ R106		4822 116 83929	RES., 220 Ω $\pm 5\%$ 1/4W	GG05221140	QD02		4822 209 30193	MOTOR VOLUME DRIVE	HC10279030
	R711		4822 117 10002	RES., 2.2k Ω $\pm 5\%$ 1/2W	GG05222120				IC, LB1641	
	R712		4822 117 10002	RES., 2.2k Ω $\pm 5\%$ 1/2W	GG05222120	QD03		4822 209 30193	MOTOR DRIVER TRAY	HC10279030
01011280	R713		4822 113 80363	RES., 0.22 Ω $\pm 10\%$ 3W	GO10222030				IC, LB1641	
	R714		4822 113 80363	RES., 0.22 Ω $\pm 10\%$ 3W	GO10222030	QD04		4822 130 61227	MOTOR DRIVER DOOR	HC10279030
	R715		4822 053 10109	RES., 10 Ω $\pm 5\%$ 1W	GA05100010				DIG. TRS., DTA114ES UN4111	BA10001000
	R716		4822 053 10109	RES., 10 Ω $\pm 5\%$ 1W	GA05100010	QN01		4822 130 43233	10k 10k	
	R718		4822 052 10101	RES., 100 Ω $\pm 5\%$ 1/6W	GG05101160	QN02		4822 130 43233	TRS., 2SC2240 GR OR BL	HT322402A0
17103110	R719		4822 052 10101	RES., 100 Ω $\pm 5\%$ 1/6W	GG05101160	QN03		4822 130 42949	TRS., 2SA970 GR OR BL	HT109702A0
17103110	▲ R801	F,K,/2	4822 116 60306	FUSIBLE, 1 Ω $\pm 5\%$ 1/2W	NH05010120	QN04		4822 209 83312	IC, TA7317P	HC10042050
17103110	▲ R802	F,K,/2	4822 116 60306	FUSIBLE, 1 Ω $\pm 5\%$ 1/2W	NH05010120	QN05		4822 130 61179	TRS., 2SD2037 E OR F	HT420372B0
388104010	▲ R807		4822 117 10002	RES., 2.2k Ω $\pm 5\%$ 1/2W	GG05222120				50V 1.8W	
	▲ R810	F,K,/2	4822 116 60307	FUSIBLE, 1 Ω $\pm 5\%$ 1/4W	NH05010140	QN06		4822 130 60588	DIG. TRS., DTC114ES UN4211	BA20001000
116221110									10k 10k	
116102110						QV01		4822 209 32552	IC, LC78211 ANALOG SW.	HC10308030
						QV02		4822 209 73064	IC, NJM2068D-D	HC10053090

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJL)
QV03		4822 130 41947	TRS., 2SC536SP 2SC2458 2SC3311 2SC1740S	HT30001000
QV04		4822 130 41947	TRS., 2SC536SP 2SC2458 2SC3311 2SC1740S	HT30001000
QV05		4822 130 60588	DIG. TRS., DTC114ES UN4211 10k 10k	BA20001000
QV06		4822 130 61227	DIG. TRS., DTA114ES UN4111 10k 10k	BA10001000
QV07		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0
QV08		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0
Q101		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0
Q102		4822 130 61892	TRS., 2SD2144S U OR V	HT421442A0
Q103		4822 130 60588	DIG. TRS., DTC114ES UN4211 10k 10k	BA20001000
Q104		4822 130 61227	DIG. TRS., DTA114ES UN4111 10k 10k	BA10001000
Q301	/2	4822 209 16175	IC, LC72720 RDS DECODER	HC10385030
Q302	/2	4822 130 60588	DIG. TRS., DTC114ES UN4211 10k 10k	BA20001000
Q303	/2	4822 130 61227	DIG. TRS., DTA114ES UN4111 10k 10k	BA10001000
Q304	/2	4822 130 41947	TRS., 2SC536SP 2SC2458 2SC3311 2SC1740S	HT30001000
▲ Q701		4822 209 32132	IC, STK4162 MK2	HC10371030
▲ Q801		4822 209 60826	IC, NJM7812FA +12V 1A	HC3891209F
▲ Q802		4822 209 70385	IC, L78MR05 +5V 1A	HC31505030
▲ Q803		4822 209 31925	IC, PQ05RA1	HC36905320
Q804		4822 209 63641	IC, NJM79M12FA -12V 0.5A	HC3951209F
PV04-MISCELLANEOUS				
A101	F		VHF TUNER, TFCB2J4, TUNER UNIT WITH AM ST	AV01201130
A101	K,U		VHF TUNER, TFCB2U, TUNER UNIT	AV01201110
A101	/2	4822 210 10816	VHF TUNER, TFCB3E, TUNER UNIT	AV01201120
▲ F801	U		FUSE, T400MA 250V TR5 NO.19374 TP	FS20040210
▲ F802	U		FUSE, T400MA 250V TR5 NO.19374 TP	FS20040210
▲ F803	U		FUSE, T2A 250V TR5 NO.1937 TP	FS20200210
JV01		4822 265 10748	TERMINAL, 6P RCA JACK	YT02060460
JV02		4822 267 41009	TERMINAL, 2P RCA JACK REMOTE IN/OUT	YT02020890
J101		4822 290 81632	TERMINAL, YKD31-0215A ANT	YT03030020
J701		4822 265 11274	TERMINAL, YKD21-0181 SPK	YT03040420
LN01		4822 280 70354	RELAY, VB 24MBU-510 5A 240VAC	LY20240310
L301	/2	4822 157 62911	CHOKE COIL, 3.3μH	LC13323800
L307			LAL02TA3R3J	
L701		4822 157 70022	AIR COIL, SPK CHOCK VERTI.	ML08010030
L702		4822 157 70022	AIR COIL, SPK CHOCK VERTI.	ML08010030
L703	/2	4822 157 70022	AIR COIL, SPK CHOCK VERTI.	ML08010030
L704	/2	4822 157 70022	AIR COIL, SPK CHOCK VERTI.	ML08010030
WV01		4822 265 11273	JUMPER LEAD, 23P	YU23300530
X301	/2	4822 242 10857	CRYSTAL, 4.332MHz LC72720	JX04003260