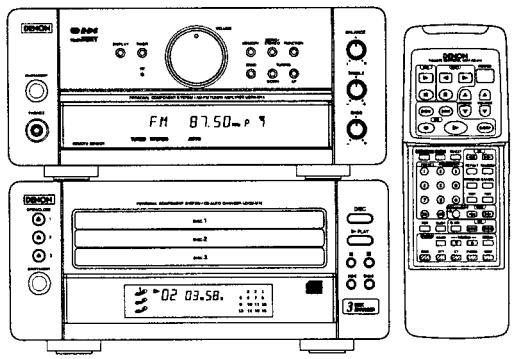
DENON

Hi-Fi Personal Component System

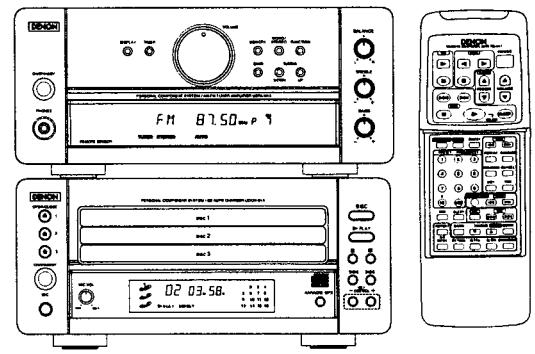
SERVICE MANUAL

MODEL UD-M10

PERSONAL COMPONENT SYSTEM



U.S.A., Canada, Europe & U.K. models



Asia model

Unit No. UDRA-M10 (Tuner Amplifier)
Unit No. UDCM-M10(CD Auto Changer)

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● **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

TUNER AMP SECTION

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

■ **Tuner-amplifier (UDRA-M10)**

Reception frequency band:	FM: 87.5 MHz ~ 108.0 MHz AM: 520 kHz~ 1710 kHz (U.S.A. & Canada models) AM: 522 kHz ~ 1611 kHz (Europe, U.K. & Asia models)
Reception sensitivity:	FM: 1.5 μV/75 Ω/ohms AM: 20 μV
FM stereo separation:	35 dB (1 kHz)
Rated output power:	40 W + 40 W (6 Ω/ohms, 1 kHz, T.H.D. 10%)
Low frequency adjustment range:	100 Hz ±8 dB
High frequency adjustment range:	10 kHz ±8 dB
Audio input/output jacks:	CD input jacks, TAPE input/output jacks, AUX. input jacks, MD input/output jacks, PRE OUT (MONO) jack, 3.5 mm headphones jack
Power supply:	AC 120 V, 60 Hz (U.S.A. & Canada models) AC 230 V, 50 Hz (Europe, U.K. & Asia models)
Power consumption:	80 W (U.S.A. & Canada models) 74 W (Europe, U.K. & Asia models)
Maximum external dimensions:	210 (W) x 95 (H) x 322 (D) mm (8-17/64" x 3-45/64" x 12-11/16") (including feet, controls and terminals)
Weight:	4.4 kg (9 lbs. 11 oz)

■ **CD auto changer (UDCM-M10)**

Wow & flutter:	Below measurable limits (±0.001% W. peak)
Sampling frequency:	44.1 kHz
Optical source:	Semiconductor
Audio input/output jacks:	AUDIO OUT jacks, DIGITAL OPTICAL OUT VIDEO OUT jack (for Video CD, Asia model only) Microphone jack (Asia model only)
Power supply:	AC 120 V, 60 Hz (U.S.A. & Canada models) AC 230 V, 50 Hz (Europe, U.K. & Asia models)
Power consumption:	12 W
Maximum external dimensions:	210 (W) x 97 (H) x 338 (D) mm (8-17/64" x 3-45/64" x 13-5/16") (including feet, controls and terminals)
Weight:	3.0 kg (6 lbs. 10 oz)

■ **Remote control unit (RC-846)** ..... (U.S.A., Canada, Europe & U.K. models)
(RC-847) ..... (Asia model)

Remote control system:	Infrared pulse
Number of buttons:	54 (U.S.A., Canada, Europe & U.K. models) 55 (Asia model)
Power supply:	Two DC 1.5V R6P/AA batteries
Maximum external dimensions:	67 (W) x 197 (H) x 21 (D) mm (2-41/64" x 7-3/4" x 53/64")
Weight:	145 g (5.1 oz) (including batteries)

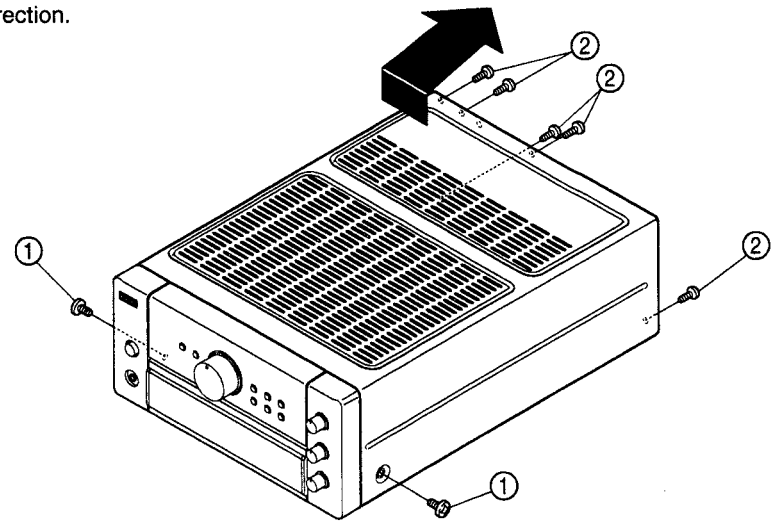
*Maximum dimensions include controls, jacks, and covers.
(W) = width, (H) = height, (D) = depth

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

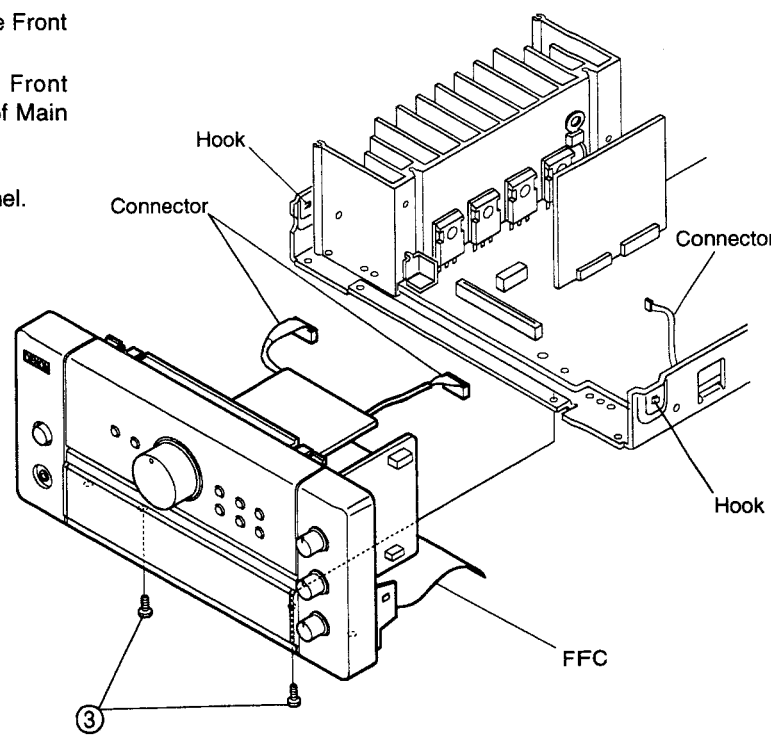
1. Top Cover

(1) Remove 2 screws ① on both sides.
(2) Remove 5 screws ② on the rear.
(3) Detach the Top Cover as shown in the arrow direction.



2. Front Panel

(1) Remove 2 screws ③ on the bottom edge of the Front Panel.
(2) Unplug 2 wire connectors coming out of the Front Panel's P.W.B., and 1 connector coming out of Main P.W.B.
(3) Disconnect FFC from the Main P.W.B.
(4) Release 2 hooks on both sides of the Front Panel.

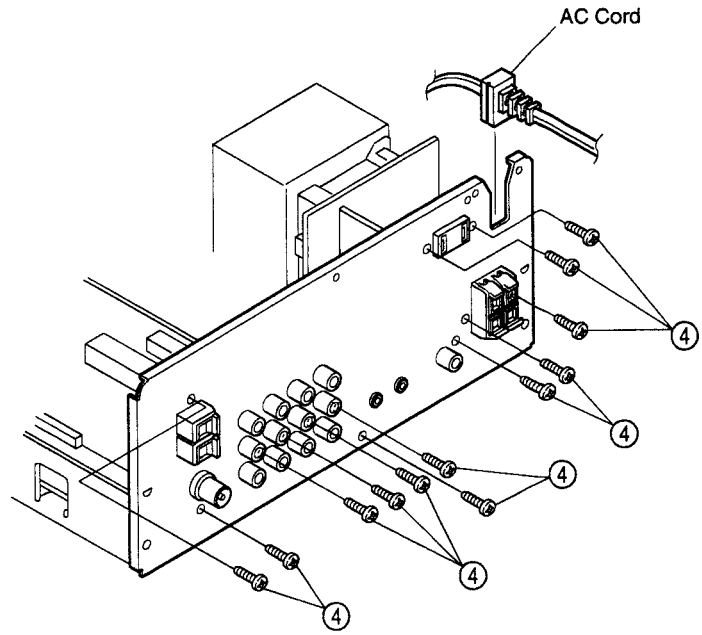


TUNER AMP SECTION

3. Rear Plate

(1) Take off the AC Cord from the Rear Plate.

(2) Remove 12 screws ④ from the Rear Plate.



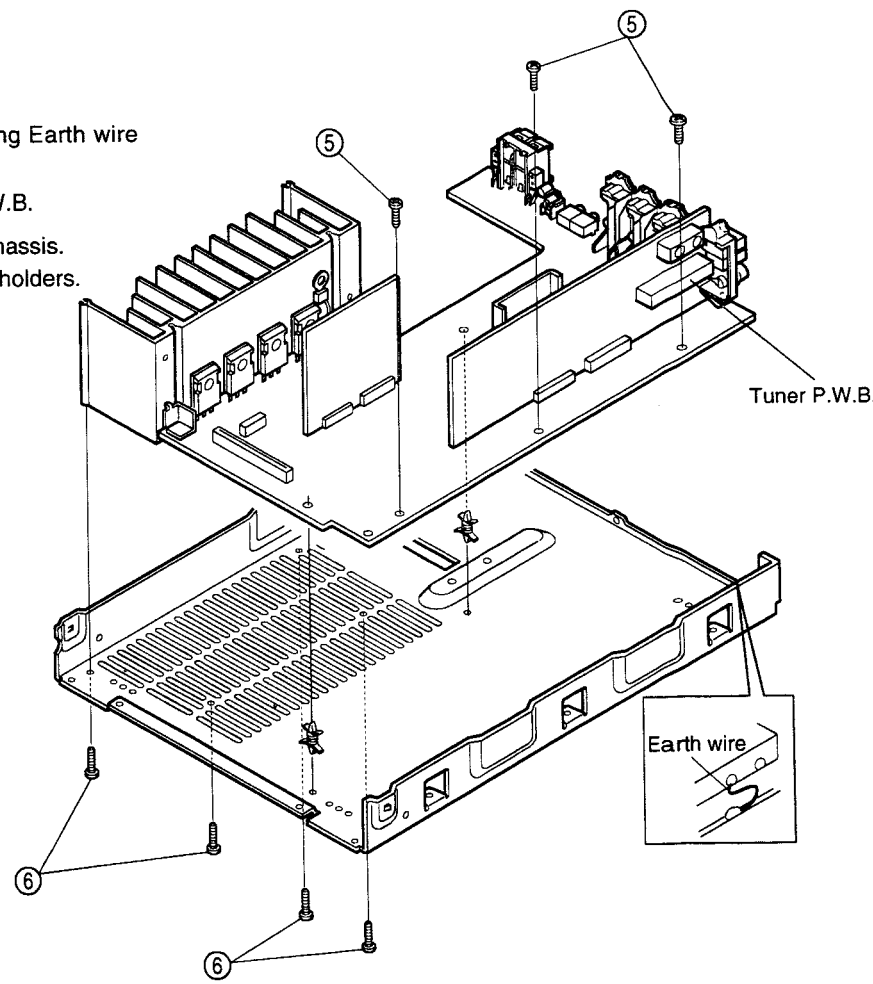
4. Main P.W.B.

(1) Remove Tuner P.W.B.after disconnecting Earth wire from its tuner pack.

(2) Remove 3 screws ⑤ fixing the Main P.W.B.

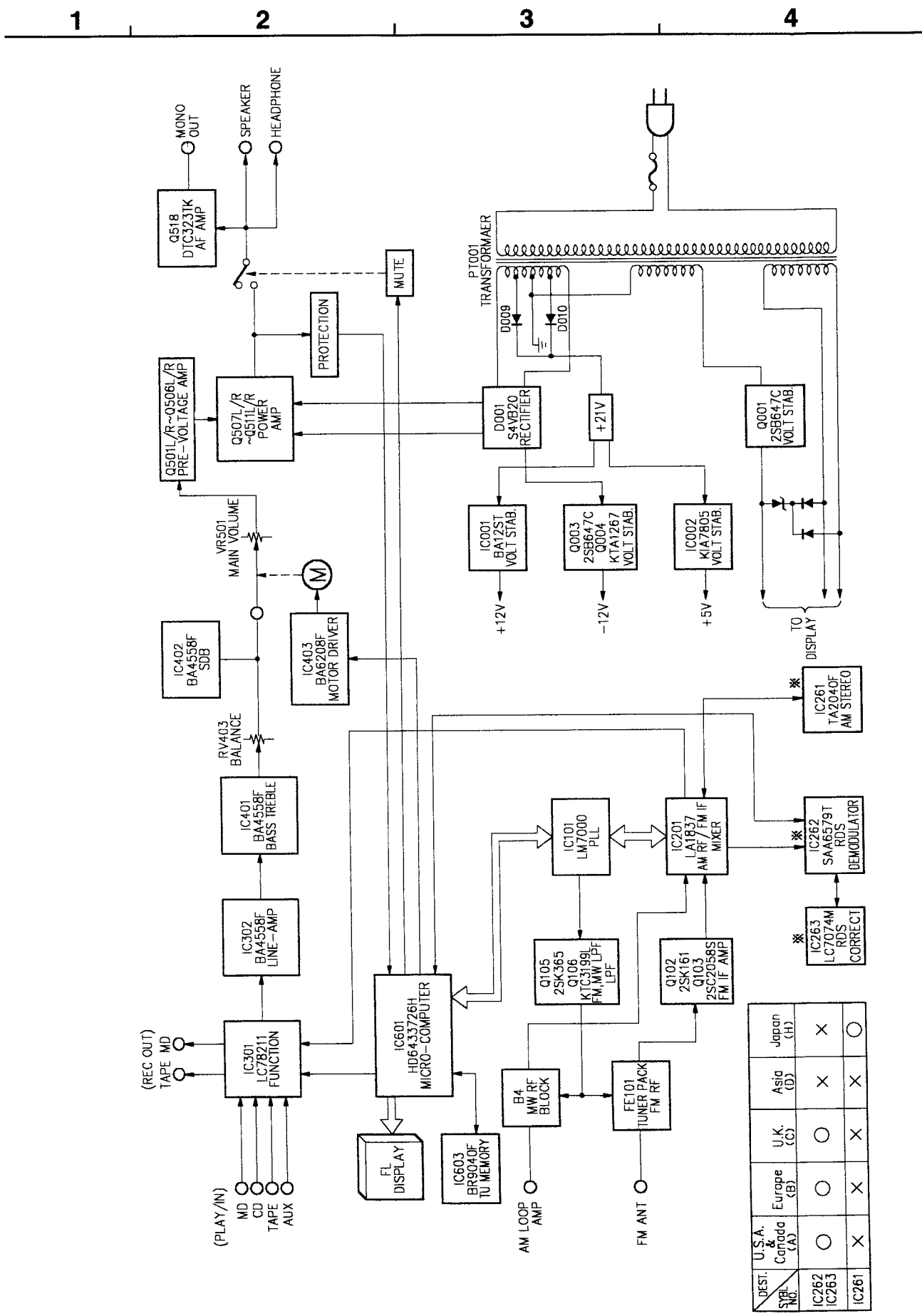
(3) Remove 4 screws ⑥ on the bottom of chassis.

(4) Release the Main P.W.B. from 2 P.W.B. holders.



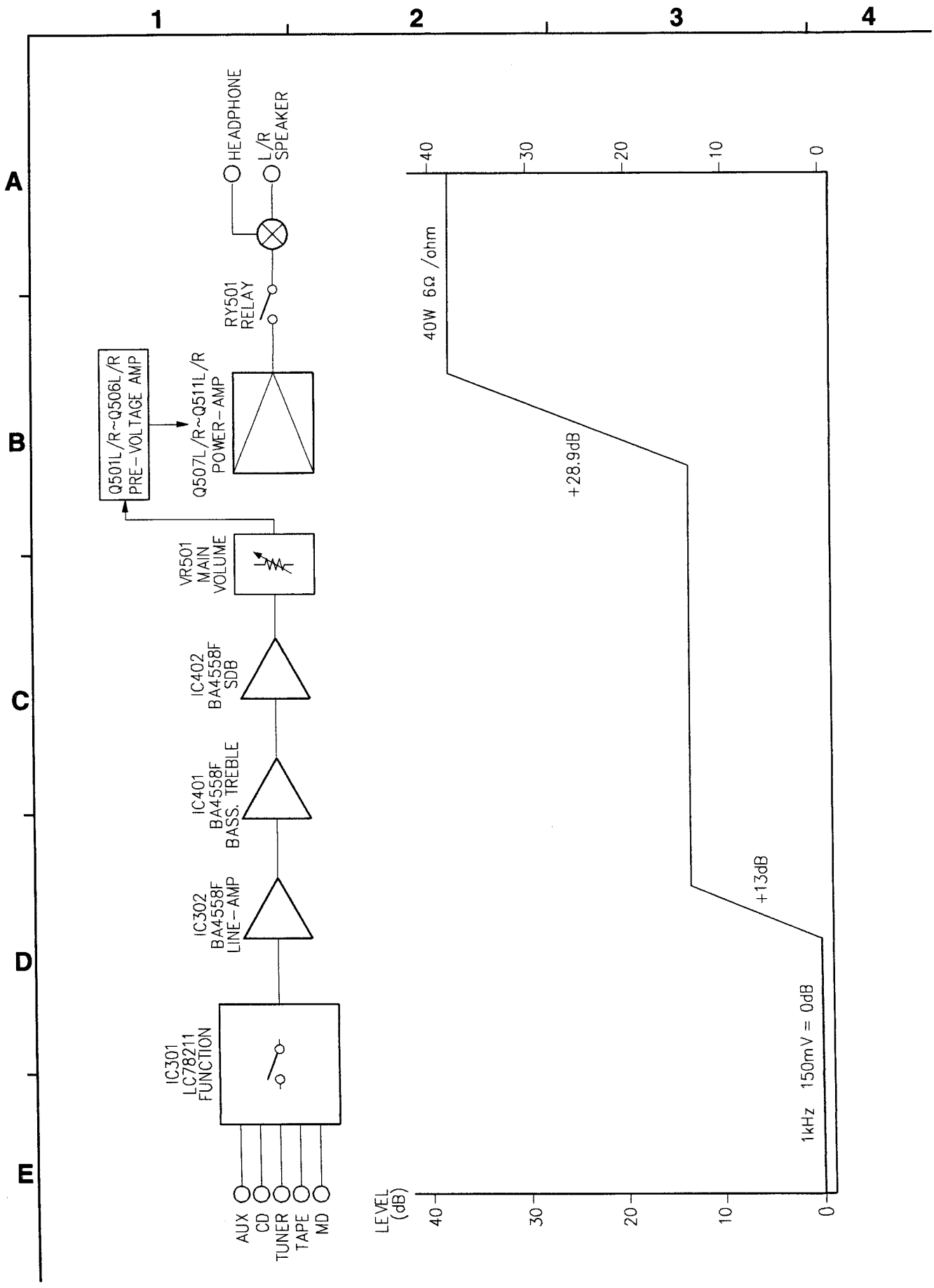
BLOCK DIAGRAM

TUNER AMP SECTION



DEST. / SYM. NO.	U.S.A. & Canada (A)	Europe (B)	U.K. (C)	Asia (D)	Japan (H)
IC262 IC263	○	○	○	×	○
IC261	×	×	×	×	×

LEVEL DIAGRAM

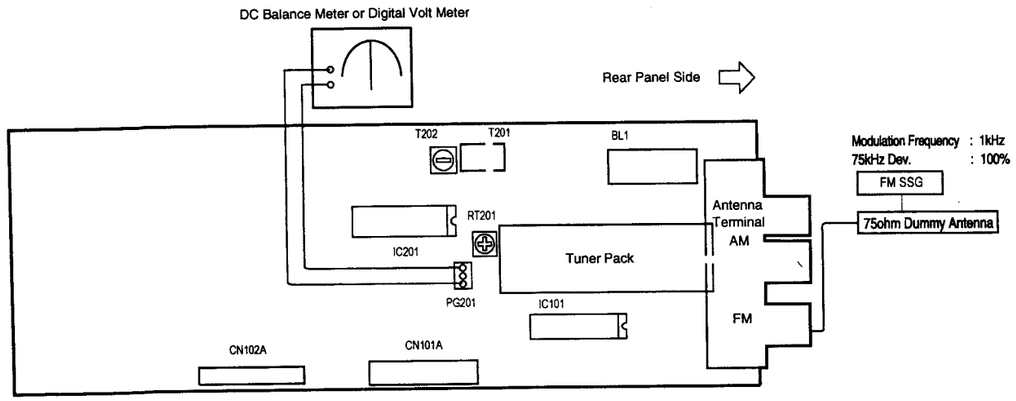


1. ADJUSTMENT

TUNER ALIGNMENT(BAND BUTTON : FM, MONO/AUTO BUTTON : AUTO)

Step	Alignment Item	Tuning Frequency Setting	Input					Output		Adjustment		Remarks
			Instrument	Frequency	Input level	Modulation	Connection	Type	Connect to	Points	Adjust to	
1	FM DC BALANCE	98.3 MHz	FM S.G.	98.3 MHz	60 dBμ	1kHz 75kHz DEV.	FM Antenna Terminal	DC Balance Meter or Digital Volt Meter	⊕PG201 ⊖PG201	T202	0±30mV	Monaural Modulation
2	MUTING LEVEL	98.3 MHz	FM S.G.	98.3 MHz	22 dBμ	1kHz 75kHz DEV.	FM Antenna Terminal	TUNED Lighting Check	SPEAKERS Terminal or TAPE OUT Terminal	RT201	Input Level 22dBμ±4dB	Output signal appearing level

CONNECTION / ALIGNMENT POINTS (Component Side)



TUNER P.W.B.

2. Idling current adjust

(1) Set controls as follows:

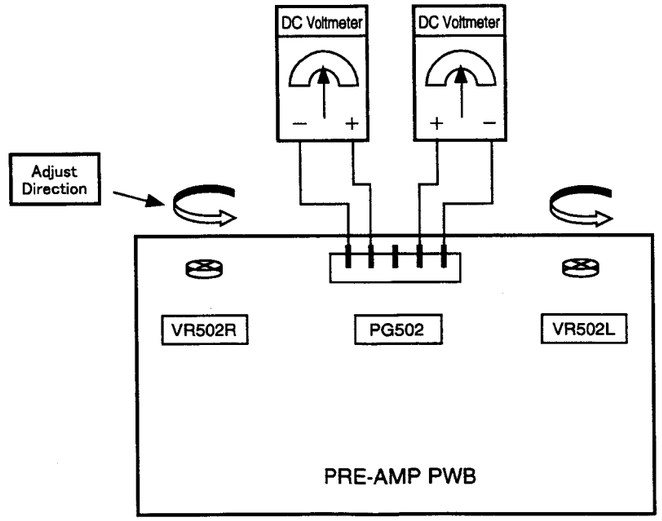
POWER Switch	OFF (Standby)
Volume Control	0 (Min)
Function	AUX
Speakers	Open
Temperature	15°C~30°C (59°F~86°F)
VR502L/R	Max (CW)

(2) Connect DC Voltmeter to PG502

(3) Turn the power switch on and rotate the VR502L/R CCW so that the DC Voltmeter reads 2~2.5mV DC at the PG502 before set heat up.

Remarks:

* If power transistor spoiled, in this case need to change **(Q508L, Q509L, Q510L, Q511L)** or **(Q508R, Q509R, Q510R, Q511R)** at the same time
* Use rated power supply voltage (mentioned in Specifications when adjusting the idling current.)

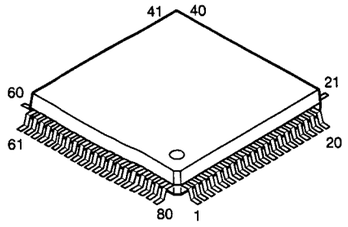


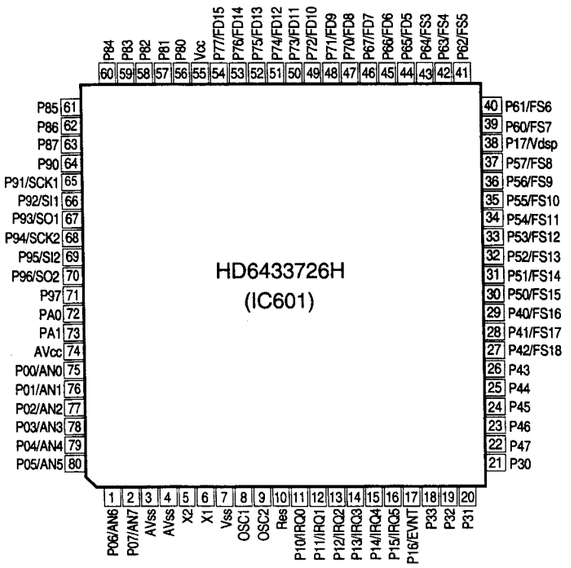
TUNER AMP SECTION

SEMICONDUCTORS

● μCOM

HD6433726H (IC601)





The functions of this microcomputer are made up of the following four pillars.

a. Tuner functions

These functions perform the required control for the reception of FM and AM broadcasts.

b. Auto functions

Positioned at the heart of the system stereo, the auto functions perform serial communications with other components to provide overall control.

These functions decode the signals from the remote control and send them to each component of the system.

c. Timer functions

Counts the clock of the 24-hour display.

These functions perform two types of timer operations, "everyday and sleep."

d. Display Function

Outputs the control signal of the FLD.

NOTE1 When buttons "STANDBY" and "MEMORY" are pressed simutaneously and the power cord is inserted into the power outlet , the frequencies used for the tracking adjustment will automatically be registerd in the preset memory as indicated below.
Use this information for tuning and other procedures.

	P1	P2	P3	P4	P5
AM (kHz)	520	600	1000	1400	1710
	P11	P12	P13	P14	P15
FM (MHz)	87.5	89.0	98.0	100.1	108.0

* P6 through P10 and P21 through P40 are AM 520 kHz, and P16 through P20 are FM 87.5 MHz.

NOTE2 Depressing both the MEORY and BAND buttons while plugging the power cord into the power outlet serves to initialize the current time setting and the contents of the timer and preset memory.

2. Receiving Band Table

Band	Receiving frequency	Local oscillator frequency	IF	Frequency division ratio	Comparison frequency	Step frequency	Other
FM	87.5 ~ 108.0MHz	98.2 ~ 118.7MHz	10.7MHz	1	25kHz	100kHz	STEREO
AM	520 ~ 1710kHz	970 ~ 2160kHz	450kHz	—	10kHz	10kHz	

3. Signals sent to the LM7000 Programmable Divider

a. Signals to the programmable divider are sent from 3 sources: CE OUT, CLOCK OUT, and DATA OUT.

b. The programmable divider takes in DATA at CLOCK ↓ , when CE equals 1.

c. The data is a 24-bit serial signal which is taken in to the programmable divider from the LSB.
(At the AM setting, D_0 through D_3 are ignored, so that D_4 becomes the LSB.)

d. The data is made up of the number of frequency divisions data, the band data, and the comparison frequency data.
(See diagram below.)

Number of frequency divisions data

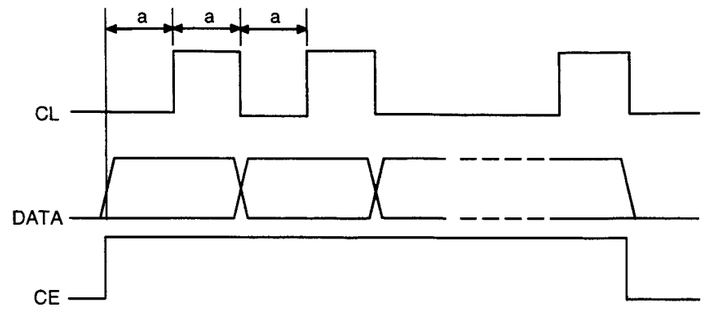
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_{10}	D_{11}	D_{12}	D_{13}
FM	1	0	0	0	1	1	1	1	1	1	1	0	0	0
AM	X	X	X	X	1	0	0	0	1	0	1	0	0	0

(T1)	(T2)	Band data			Comparison frequency data				
0	0	B0	B1	B2	0 (TB)	R0	R1	R2	S

Band	B_0	B_1	B_2	B_{01}	B_{02}	B_{03}
FM	0	1	0	0	1	0
AM (JAPAN) MW (EUROPE)	1	0	0	1	0	0
LW	1	0	1	1	0	1
AM (USA)	1	0	1	1	0	1

Comparison frequency	R0	R1	R2		S
25kHz	0	1	0	→	1
9kHz	1	0	1		0
1kHz	1	1	0	→	0
10kHz	1	1	0	→	0

e. Timing for sending
a = 2.5 μsec



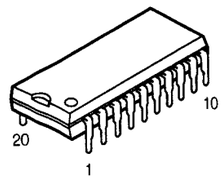
HD6433726H Terminal Function

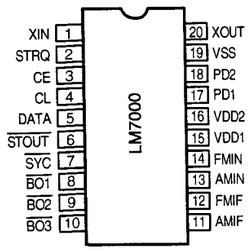
Pin No.	Symbol	Port Name	I/O	INI	ACT	Function
1	AM Stereo	P06/AN6	I	–	L	AM stereo signal detection.
2	Tuned In	P07/AN7	I	L	H	– FM/AM tuning signal input.
3	GND	AVss	–	–	–	Analog ground.
4	GND	Test	–	–	–	
5	Sub Xtal	X2	O	–	–	Sub Xtal drive.
6	Sub Xtal	X1	I	–	–	Sub Xtal input.
7	Vss	Vss	–	–	–	Ground.
8	OSC1	OSC1	O	–	–	8.38 MHz Xtal out.
9	OSC2	OSC2	I	–	–	8.38 MHz Xtal in.
10	Reset	Res	I	–	L	Reset input.
11	Remocon	P10/IRQ0	I	–	L	Remote control signal in.
12	50/60	P11/IRQ1	I	–	L	50/60 Hz AC input.
13	Protect	P12/IRQ2	I	–	L	Overcurrent detection signal input.
14	RDS Start	P13/IRQ3	I	–	L	RDS signal start detection.
15	RXD	P14/IRQ4	I	–	L	Denon Bus data input.
16	Mute	P15/IRQ5	O	H	L	Speaker relay off.
17	GND	P16/EVNT	I	–	–	Not used.
18	N.C.	P33	O	L	L	No connection.
19	RT Gr LED	P32	O	L	H	RT green LED.
20	TA Gr LED	P31	O	L	H	TA green LED.
21	PTY Gr LED	P30	O	L	H	PTY green LED.
22	RT Rd LED	P47	O	L	H	RT red LED.
23	TA Rd LED	P46	O	L	H	TA red LED.
24	RTY Rd LED	P45	O	L	H	PTY red LED.
25	Diode 1	P44	I	–	H	Setting return input 1.
26	Diode 2	P43	I	–	H	Setting return input 2.
27	Seg 1	P42/FS18	O	L	H	Segment 16 output.
28	Seg 2	P41/FS17	O	L	H	Segment 15 output.
29	Seg 3	P40/FS16	O	L	H	Segment 14 output.
30	Seg 4	P50/FS15	O	L	H	Segment 13 output.
31	Seg 5	P51/FS14	O	L	H	Segment 12 output.
32	Seg 6	P52/FS13	O	L	H	Segment 11 output.
33	Seg 7	P53/FS12	O	L	H	Segment 10 output.
34	Seg 8	P54/FS11	O	L	H	Segment 9 output.
35	Seg 9	P55/FS10	O	L	H	Segment 8 output.
36	Seg 10	P56/FS9	O	L	H	Segment 7 output.
37	Seg 11	P57/FS8	O	L	H	Segment 6 output.
38	Vdisp	P17/Vdsp	–	–	–	High B voltage.
39	Seg 12	P60/FS7	O	L	H	Segment 5 output.
40	Seg 13	P61/FS6	O	L	H	Segment 4 output.
41	Seg 14	P62/FS5	O	L	H	Segment 3 output.
42	Seg 15	P63/FS4	O	L	H	Segment 2 output.
43	Seg 16	P64/FS3	O	L	H	Segment 1 output.
44	Dig 11	P65/FD5	O	L	H	Digit 11 output.
45	Dig 10	P66/FD6	O	L	H	Digit 10 output.
46	Dig 9	P67/FD7	O	L	H	Digit 9 output.
47	Dig 8	P70/FD8	O	L	H	Digit 8 output.
48	Dig 7	P71/FD9	O	L	H	Digit 7 output.
49	Dig 6	P72/FD10	O	L	H	Digit 6 output.
50	Dig 5	P73/FD11	O	L	H	Digit 5 output.
51	Dig 4	P74/FD12	O	L	H	Digit 4 output.
52	Dig 3	P75/FD13	O	L	H	Digit 3 output.
53	Dig 2	P76/FD14	O	L	H	Digit 2 output.
54	Dig 1	P77/FD15	O	L	H	Digit 1 output.
55	Vcc	Vcc	–	–	–	5V.
56	Volume Dwn	P80	O	H	H	Master volume down.
57	Volume Up	P81	O	H	H	Master volume up.
58	Power	P82	O	L	L	Amplifier circuit power on.
59	Tuner Mute	P83	O	H	L	Tuner audio mute.
60	Auto/Mono	P84	O	H	–	FM Auto/Mono setting.
61	Ant Sns	P85	O	L	H	Antenna sensitivity reduction.
62	SDB	P86	O	L	H	Super Dynamic Bass.
63	Sel EEROM	P87	O	L	H	Select SCI to EEROM.
64	PLL CE	P90	O	L	H	PLL serial data selection output.
65	Bus Clock	P91/SCK1	O	H	–	Denon Bus clock.
66	Bus Data In	P92/SI1	I	–	–	Denon Bus data input.
67	Bus Data Out	P93/SO1	O	H	–	Denon Bus data output.
68	RDS Clock	P94/SCK2	O	H	–	RDS data fetch clock input, PLL control clock output, LC7821 clock output.
69	RDS Data	P95/SI2	I	H	–	RDS serial data input.
70	PLL Data	P96/SO2	O	H	–	PLL serial data output, LC7821 serial data output.
71	RDS Res	P97	O	H	L	LC7070 reset output.
72	PLL STRQ	PA0	O	L	H	IF count operation request output.
73	LC7821CE	PA1	O	L	H	LC7821 chip enable.
74	AVcc	AVcc	–	–	–	Analog 5 V power supply.
75	Key AD0	P00/AN0	I	–	–	Analog key input 1.
76	Key AD1	P01/AN1	I	–	–	Analog key input 1.
77	PWB Test	P02/AN2	I	–	–	Board check at 5 V.
78	Stereo In	P03/AN3	I	–	L	FM stereo demodulation detection.
79	Signal In	P04/AN4	I	–	L	RF signal detection signal input.
80	Stop In	P05/AN5	I	–	L	IF count tuning detection.

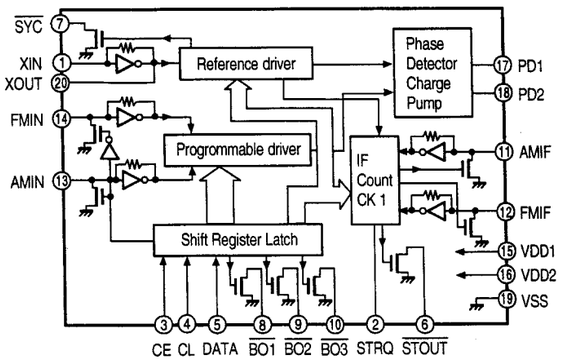
TUNER AMP SECTION

● IC's

LM7000 (IC101)



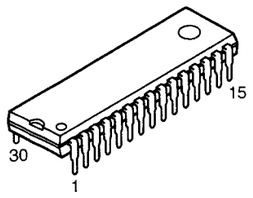


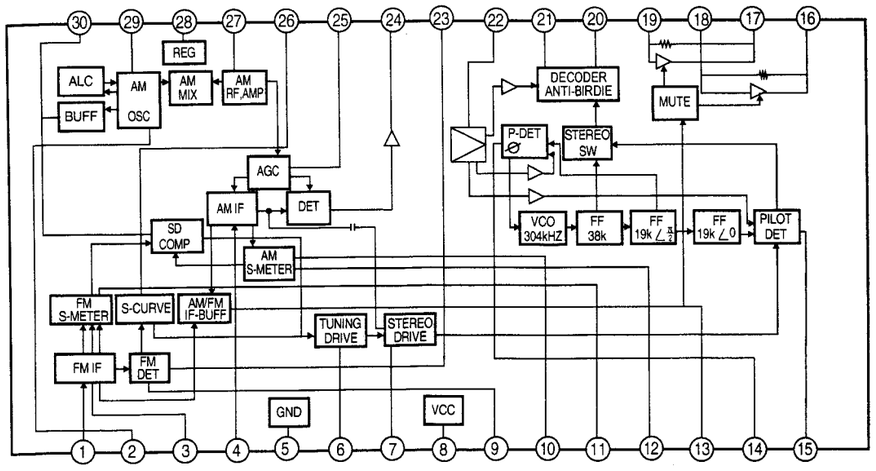


Pin Description

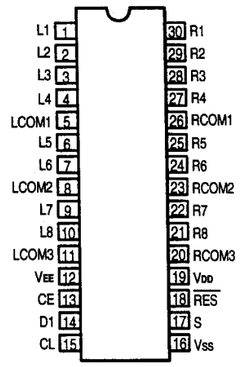
SYC	: Clock (400kHz) for the controller
XIN, XOUT	: X'tal oscillator (7.2MHz) with built-in feedback resistor
FM IN, AM IN	: Local osc. signal input
CE, CL, DATA	: Data input
B01, B02, B03	: Band data output. B01 can be set as the time base output (8Hz)
STRQ	: IF counter request input
STOUT	: Auto research stop signal output
VDD1, VDD2, VSS	: Power supply (VDD2 is a back-up power supply)
AMIF, FMIF	: IF signal input
PD1, PD2	: Charge pump output

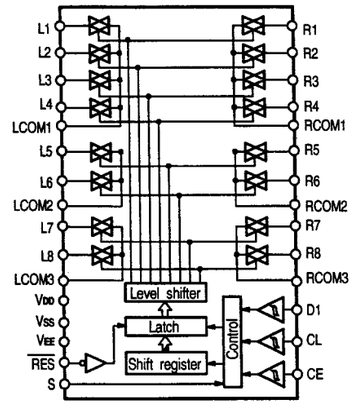
LA1837 (IC201)



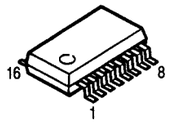


LC78211 (IC301)



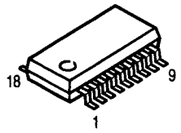


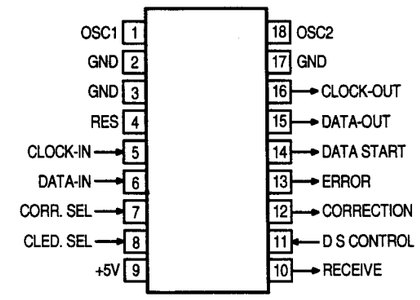
SAA6579T (IC262)



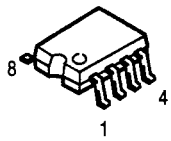
Pin No.	Symbol	Description
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	Vref	Reference voltage output (0.5 VDDA).
4	MUX	Multiplex signal input.
5	VDDA	+5V supply voltage for analog part.
6	VSSA	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier output of reconstruction filter.
9	TSTLD	Test control.
10	TEST	Test enable.
11	VSSD	Ground for digital part (0V).
12	VDDD	+5V supply voltage for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57 kHz clock signal output.
16	RDCL	RDS clock output.

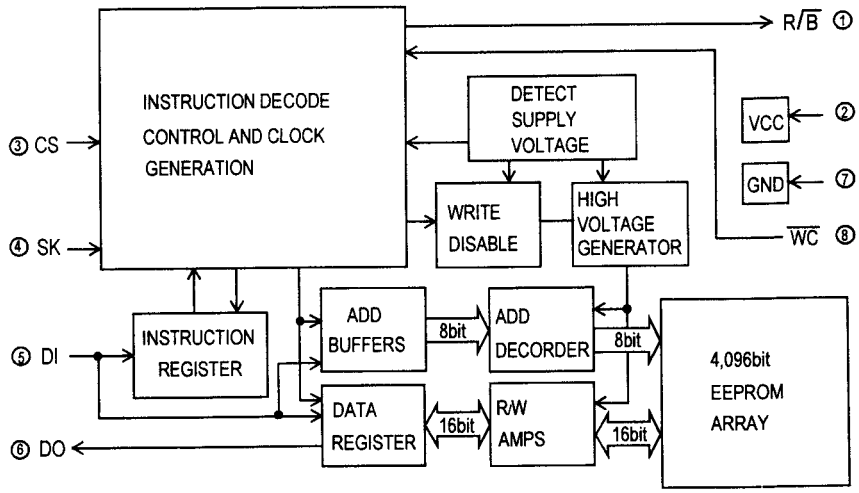
LC7074M (IC263)



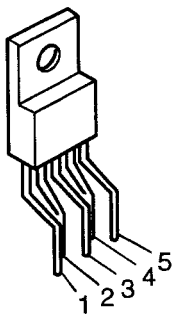


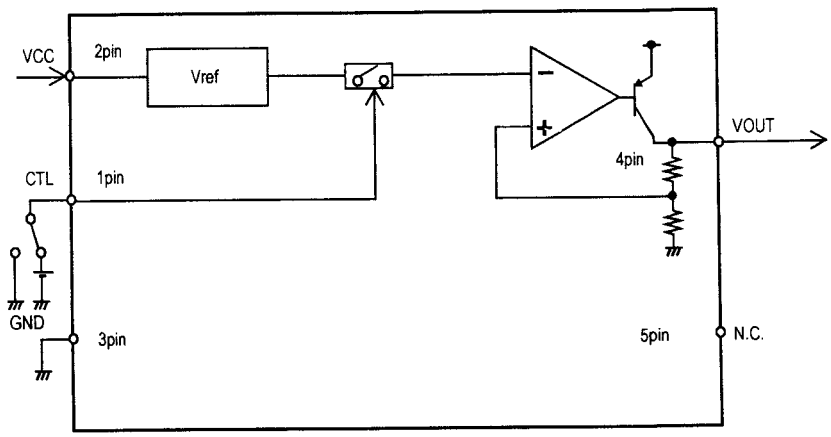
BR9040F (IC603)



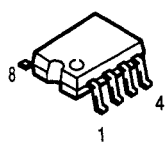


BA12ST (IC001)



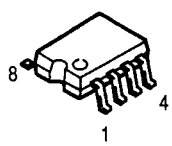


BA6208F (IC403)



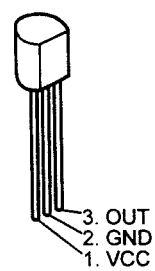
1: VCC
2: BOUT
3: GND
4: AOUT
5: BIN
6: VCT
7: GND
8: AIN

BA4558F (IC302, 401, 402)

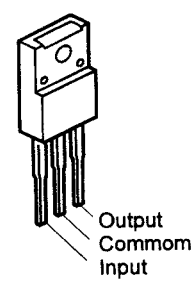


1: AOUT
2: AIN1
3: AIN2
4: VEE
5: BIN2
6: BIN1
7: BOUT
8: VCC

KIA7045P (IC602)



KIA7805 (IC002)



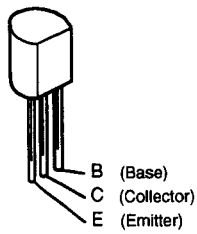
●IC PROTECTOR

ICP-N5 (PR001,002,003,201)

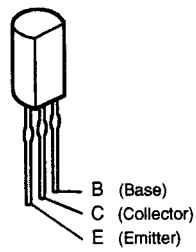
TUNER AMP SECTION

●TRANSISTOR

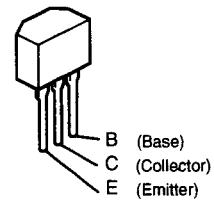
HIT8050C
2SA970
2SA988
2SC1740
2SC1815
2SC1841



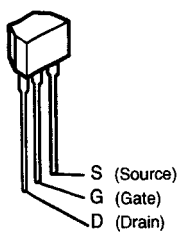
2SB647
2SD667A



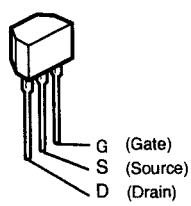
2SC2058S
KTC3199
KTC3199L
KTA1267



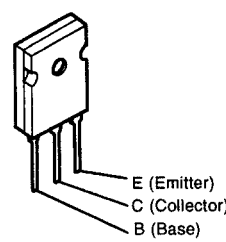
2SK365



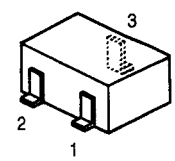
2SK161



2SA1633
2SC4278

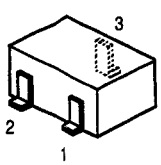


2SA1037AK
2SC2412K



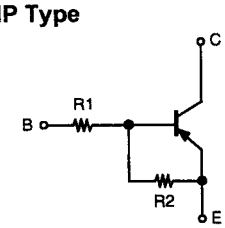
1: E (Emitter)
2: B (Base)
3: C (Collector)

DTA114EK
DTC114EK
DTC143EK
DTA144EK
DTC144EK
DTC323TK



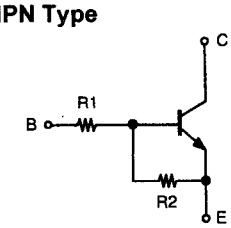
1: E (Emitter)
2: B (Base)
3: C (Collector)

PNP Type



	R1	R2
DTA114EK	10 kohm	10 kohm
DTA144EK	47 kohm	47 kohm

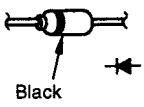
NPN Type



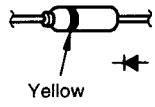
	R1	R2
DTC114EK	10 kohm	10 kohm
DTC143EK	4.7 kohm	4.7 kohm
DTC144EK	47 kohm	47 kohm
DTC323TK	2.2 kohm	–

●DIODE

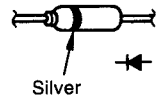
1N4531
1S2471



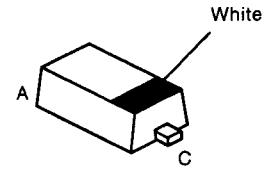
1SS133



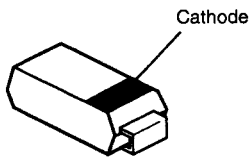
1N4002



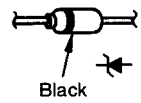
1SS355



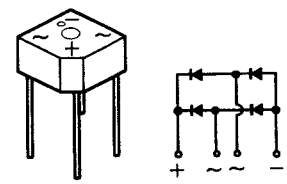
RB160L-40
S1B



MTZ-J12C
MTZ-J5.6A
MTZ-J27A
MTZ-J6.2A
MTZ-J10A

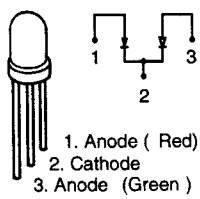


S4VB20

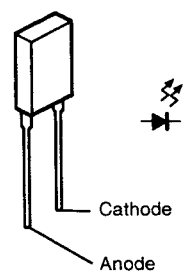


●LED

SPR-505MVW

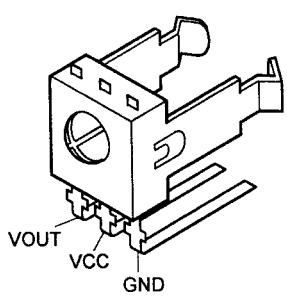


LH5230/P1 (Red)



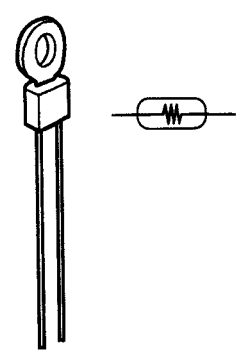
●IR SENSOR

28043TH2



● POSISTOR

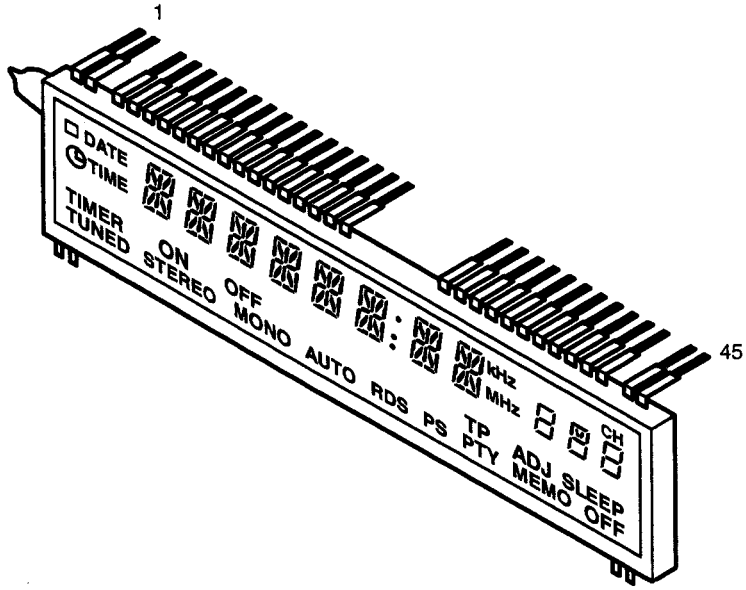
PTH9M04BC222TS2F333



TUNER AMP SECTION

● FL DISPLAY 11-BT-159GK

(Parts No. : 9LDD00061)



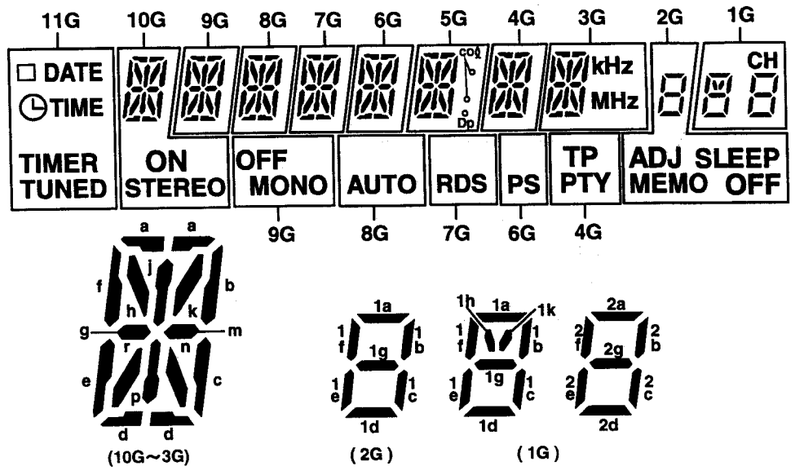
Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NX	NX	NX	NX

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Connection	NX	NX	NX	NX	NX	NX	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2

NOTE
1) F1,F2 ..... Filament
2) NP ..... No Pin
3) NX ..... No Extension Pin
4) DL ..... Datum Line
5) 1G~11G ..... Grid
6) Visible Angle (Min) = 33° (Upper), 25° (Lower)

Grid Partition

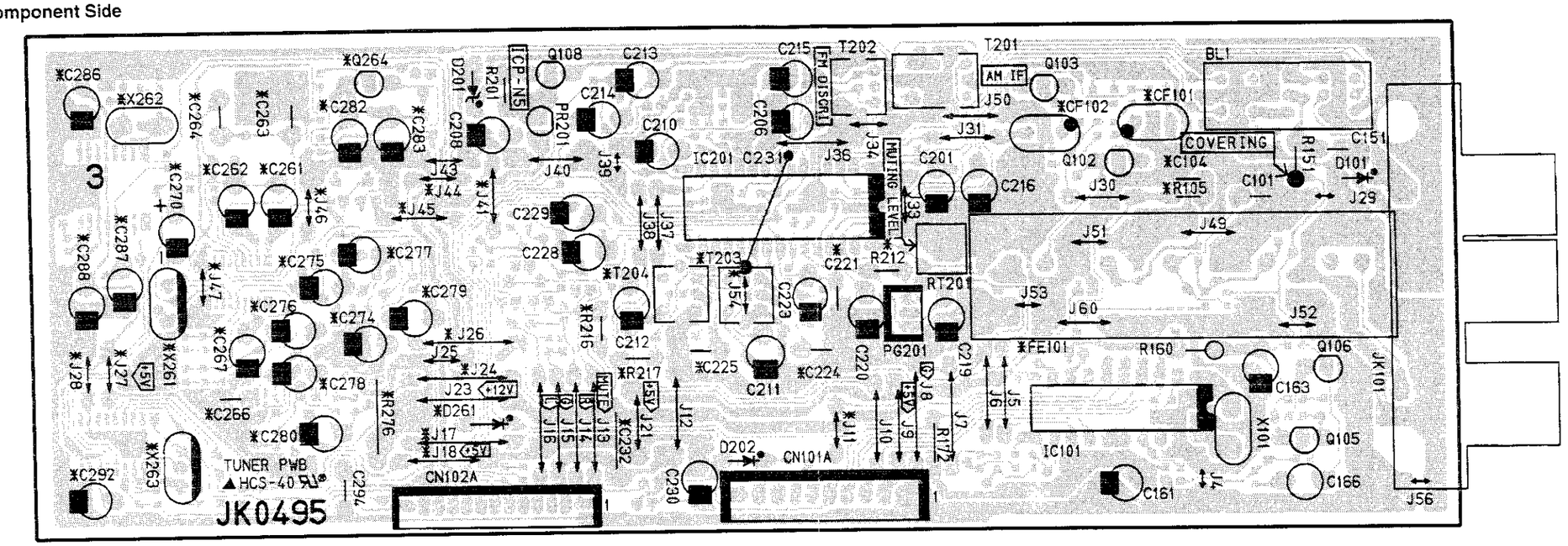


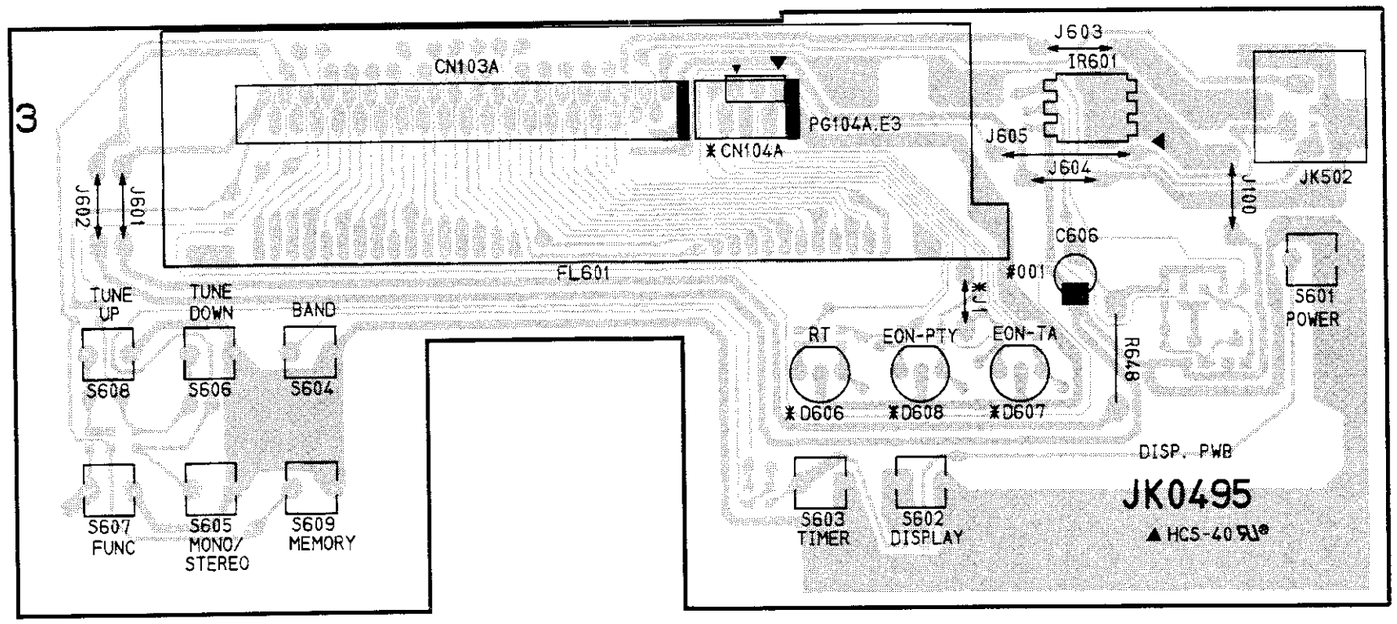
Anode Connection

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	▭	a	a	a	a	a	a	a	a	1a	1a
P2	◷	b	b	b	b	b	b	b	b	1b	1b
P3	**DATE**	c	c	c	c	c	c	c	c	1c	1c
P4	**TIME**	d	d	d	d	d	d	d	d	1d	1d
P5	**TIMER**	e	e	e	e	e	e	e	e	1e	1e
P6	**TUNED**	f	f	f	f	f	f	f	f	1f	1f
P7	–	g	g	g	g	g	g	g	g	1g	1g
P8	–	h	h	h	h	h	h	h	h	**ADJ**	1h,1k
P9	–	j	j	j	j	j	j	j	j	**MEMO**	2a
p10	–	k	k	k	k	k	k	k	k	**SLEEP**	2b
P11	–	m	m	m	m	m	m	m	m	**OFF**	2c
P12	–	n	n	n	n	n	n	n	n	–	2d
P13	–	p	p	p	p	p	p	p	p	–	2e
P14	–	r	r	r	r	r	r	r	r	–	2f
P15	–	**ON**	**OFF**	**AUTO**	**RDS**	**PS**	col	**TP**	**kHz**	–	2g
P16	–	**STEREO**	**MONO**	–	–	–	Dp	**PTY**	**MHz**	–	**CH**

TUNER / DISPLAY UNIT ASS'Y

Component Side

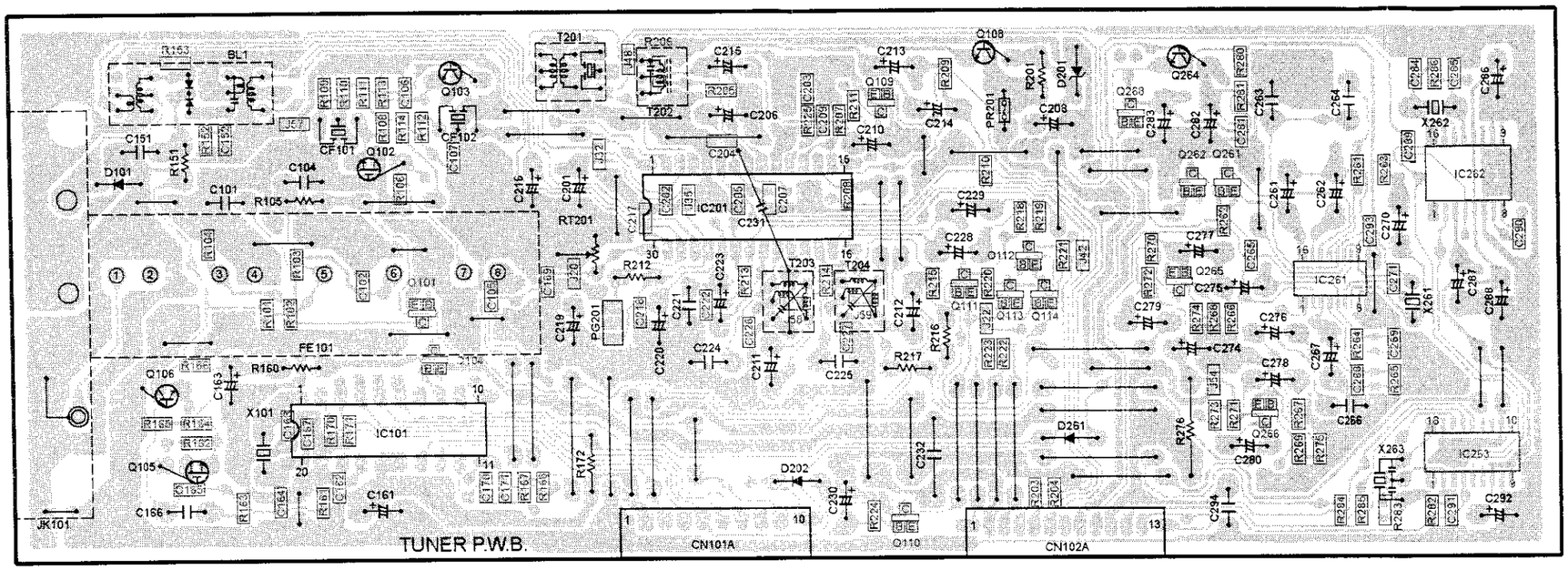




1 2 3 4 5 6 7 8

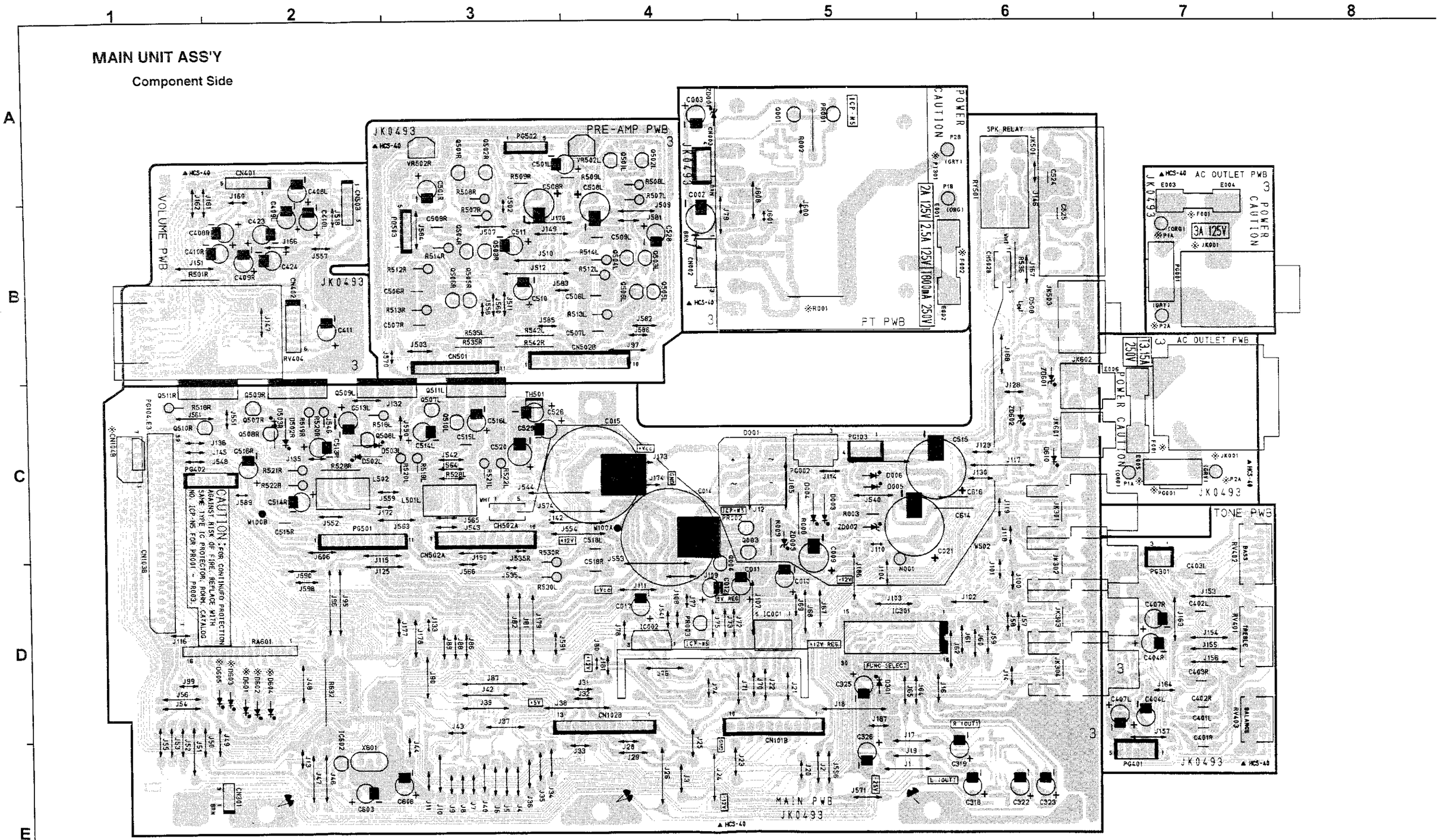
A B C D E

■Pattern Side



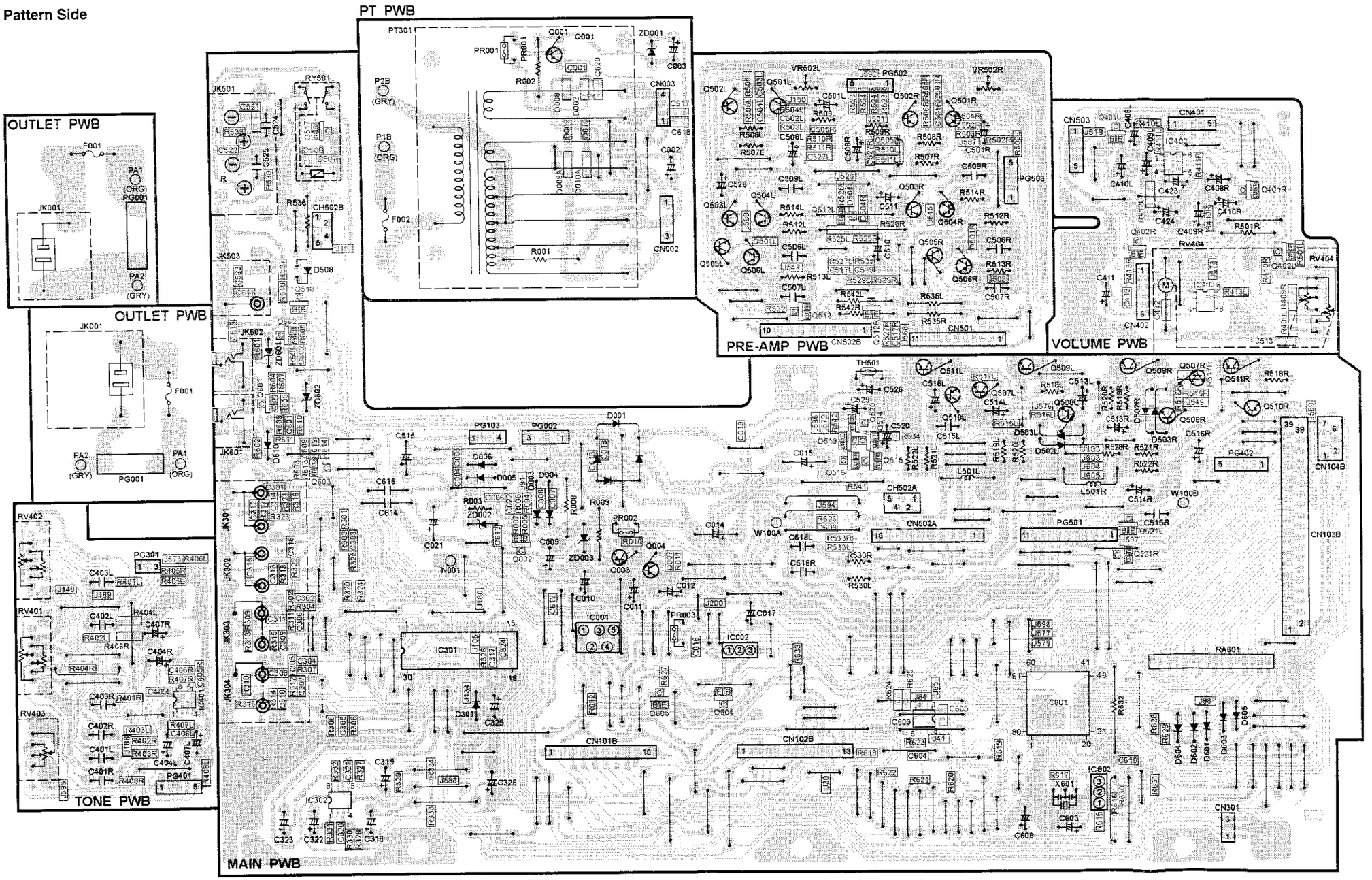
MAIN UNIT ASS'Y

Component Side



TUNER AMP SECTION

Pattern Side



TUNER AMP SECTION

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▒▒ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN Type, 14K Shape and performance, 2E Power, 182 Resistance, G Allowable error, FR Others

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✱ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE Type, 04W Shape and performance, 1H Dielectric strength, 2R2 Capacity, M Allowable error, BP Others

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✱ Capacity (electrolyte only)

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: μF.

✱ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 2 1 ⇒ 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

TUNER/DISPLAY P.W.B. UNIT ASS'Y

* As for "Note" in Part No. refer to ADDENDUM PARTS LIST

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	9LC P044 91	IC LM7000	
IC201	9LC P045 01	IC LA1837	
IC262	NOTE	NOTE	
IC263	NOTE	NOTE	
Q101	9L2 3163 61R	Transistor DTC114EK	Europe & U.K. models only
Q102	9LC F011 21R	Transistor 2SK161	
Q103	9LC F011 41R	Transistor 2SC2058S(Q)	
Q104	9LC A002 91R	Transistor DTA114EK	
Q105	9LC F011 31R	Transistor 2SK365 (BL/GR)	
Q106	9LC A006 41R	Transistor KTC3199L(GR)	
Q108	9L2 3190 52T	Transistor HiT8050-C	
Q109	9L2 3163 61R	Transistor DTC114EK	
Q110	9LC A002 91R	Transistor DTA114EK	
Q111~114	9LC A005 81R	Transistor DTC323TK	
D101	9L2 3989 21T	Diode 1N4531T/1SS133	
D201	9L2 3481 71M	Zener diode MTZ J10A	10V
D202	9L2 3989 21T	Diode 1N4531T/1SS133	
D606	NOTE	NOTE	NOTE
D607,608	9LC H011 31R	LED SPR-505MVW	Red-Green, Europe & U.K. models only
PR201	9L2 7262 21R	IC protector ICP-N5	
RESISTORS GROUP			
R101		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R102		Carbon chip 150 ohm 1/32W	RMC73M-1F151JR, Europe & U.K. models only
R103,104		Carbon chip 27 kohm 1/32W	RMC73M-1F273JR, Europe & U.K. models only
R105	NOTE	NOTE	NOTE
R106		NOTE	NOTE
R108,109		Carbon chip 330 ohm 1/32W	RMC73M-1F331JR
R110		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R111		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR
R112		Carbon chip 330 ohm 1/32W	RMC73M-1F331JR
R113		NOTE	NOTE
R114		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R151	9L0 7000 67M	Carbon film 100 kohm 1/16W	RD14S1J104JB
R152		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR
R160	9LA T012 44R	Metal oxide 10 ohm 1/4W(NB)	FLAME RES 100 1/4W NB
R161		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R162		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R163		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR
R164		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R165		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR
R166		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R167,168		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R170,171		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R172	9L0 7000 54M	Carbon film 10 kohm 1/16W	RD14S1J103JB
R201	9L0 7000 41M	Carbon film 1 kohm 1/16W	RD14S1J102JB
R203,204		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R205		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R206,207		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR
R208		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R209		Carbon chip 3 kohm 1/32W	RMC73M-1F302JR
R210,211		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR
R212	NOTE	NOTE	NOTE
R213		NOTE	NOTE
R214,215		Carbon chip 3.3 kohm 1/32W	RMC73M-1F332JR
R218,219		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R220,221		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R222,223		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R224		Carbon chip 5.6 kohm 1/32W	RMC73M-1F562JR
R225		Carbon chip 51 ohm 1/32W	RMC73M-1F510JR
R282		NOTE	NOTE
R283		NOTE	NOTE
R284,285		NOTE	NOTE
R286		NOTE	NOTE
R630		NOTE	NOTE
R631		NOTE	NOTE
R632		Carbon chip 330 ohm 1/32W	RMC73M-1F331JR, Europe & U.K. models only
R633		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR, Europe & U.K. models only
R634		Carbon chip 330 ohm 1/32W	RMC73M-1F331JR, Europe & U.K. models only
R635		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR, Europe & U.K. models only
R636		Carbon chip 680 ohm 1/32W	RMC73M-1F681JR
R637		Carbon chip 390 ohm 1/32W	RMC73M-1F391JR
R638		Carbon chip 270 ohm 1/32W	RMC73M-1F271JR
R639		Carbon chip 180 ohm 1/32W	RMC73M-1F181JR
R640		Carbon chip 150 ohm 1/32W	RMC73M-1F151JR
R641		Carbon chip 180 ohm 1/32W	RMC73M-1F181JR
R642		Carbon chip 150 ohm 1/32W	RMC73M-1F151JR
R643,644		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R648	9LH 1295 43	Carbon film 33 ohm 1/4W	RD14S2E330JB
RT201	9L0 1603 22	Semi fixed resistor 10 kohm	RT6-3H103

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C101	9L0 8800 09R	Mylar film 0.01 µF/50V	CQ92M1H103KB(AMZ)
C102		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C104	NOTE	NOTE	NOTE
C105		Ceramic chip 1000 pF/50V	CK73MF1H102ZR
C106		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C107		Ceramic chip 0.022 µF/50V	CK73MF1H223ZR
C151	9L0 8800 09R	Mylar film 0.01 µF/50V	CQ92M1H103KB
C152		Ceramic chip 9 pF/50V	CK73MCH1H090CR
C161	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C162		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C163	9L0 8000 42Y	Electrolytic 47 µF/25V	CE04W1E470MB(SSL)
C164		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C165		Ceramic chip 0.022 µF/50V	CK73MF1H223ZR
C166	9L0 2846 23R	Electrolytic 1 µF/50V	CE04W1H1R0BP(BP)
C167,168		Ceramic chip 27 pF/50V	CC73MCH1H270JR
C169		Ceramic chip 1000 pF/50V	CK73MF1H102ZR
C170		Ceramic chip 100 pF/50V	CC73MSL1H101JR
C171		Ceramic chip 1000 pF/50V	CK73MF1H102ZR
C201	9L0 8000 42Y	Electrolytic 47 µF/25V	CE04W1E470MB(SSL)
C202~204		Ceramic chip 0.047 µF/50V	CK73MF1H473ZR
C205		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C206	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C207		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR
C208	9L0 8000 42Y	Electrolytic 47 µF/25V	CE04W1E470MB(SSL)
C209		Ceramic chip 0.047 µF/50V	CK73MF1H473ZR
C210	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C211,212	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C213	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C214	9L0 8000 01Y	Electrolytic 0.47 µF/50V	CE04W1HR47MB(SSL)
C215	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C216	9L0 8000 34Y	Electrolytic 33 µF/31.5V	CE04W1F330MB(SSL)
C217,218		Ceramic chip 0.047 µF/50V	CK73MF1H473ZR
C219	9L0 8000 07Y	Electrolytic 3.3 µF/50V	CE04W1H3R3MB(SSL)
C220	9L0 8000 26Y	Electrolytic 22 µF/50V	CE04W1H220MB(SSL)
C221	NOTE	NOTE	NOTE
C222		NOTE	NOTE
C223	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C224	NOTE	NOTE	NOTE
C225	NOTE	NOTE	NOTE
C226,227		Ceramic chip 2700 pF/50V	CK73MB1H272BR, Europe & U.K. models only
C228,229	9L0 8000 05Y	Electrolytic 2.2 µF/50V	CE04W1H2R2MB(SSL)
C230	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C231	9LH 2400 68	Ceramic 0.1 µF/50V	CK14F1H104ZB(050)
C284,285		NOTE	NOTE
C286	NOTE	NOTE	NOTE
C287	NOTE	NOTE	NOTE
C288	NOTE	NOTE	NOTE
C289		NOTE	NOTE
C290		NOTE	NOTE
C291		NOTE	NOTE
C292	NOTE	NOTE	NOTE
C294	9L0 8800 16R	Mylar film 0.1 µF/50V	CQ92M1H104KB(AMZ)
C551,552		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR, Europe & U.K. models only
C606	9L0 8001 43R	Electrolytic 100 µF/6.3V	CE04W0J101MB(SRA)
C607		Ceramic chip 0.01 µF/50V	CK73MF1H103ZR

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
BL1	9LB H005 32	AM RF block		1
CF101	NOTE	NOTE		1
CF102	NOTE	NOTE		1
CN101A	9LE Y004 88	10P B to B socket (9130S)		1
CN102A	9LE Y001 02	13P B to B socket (9110S)		1
CN103A	9LE D016 77	1.25 39P FFC connector (L)		1
CN104A	9LE D008 02	1.25 7P FFC connector (L)	Europe & U.K. models only	1
E001	9L0 5444 08	Lug terminal		1
FE101	NOTE	NOTE		1
FL601	9LD D000 61	FL tube (11-BT-159GK)		1
IR601	9LC W002 02	Remote sensor (28043TH2)		1
J3		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J20		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J22		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J32		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J35		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J42		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J57		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J58,59		NOTE	NOTE	2
J61		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J101		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
JK101	9LE U000 11	Ant. terminal YKD31		1
JK502	9L2 6950 33	Head phone jack		1
PG104A	9L2 6695 22W	2.5mm pin post (V) F3B-EH	U.S.A. & Canada models only	1
PG201	9L2 6742 62	3P MX pin post-test point		1
S601~609	9LF E002 21R	Tact switch (SKHVBB)		9
T201	9LB J002 52	AM IFT with CF (450kHz)		1
T202	9LB J004 22	FM discri. coil		1
T203,204	9LB J004 11	LPF (19kHz)	Europe & U.K. models only	2
X101	9L2 1701 32	Crystal 7.2MHz		1
X262	NOTE	NOTE		1
X263	NOTE	NOTE		1
Z001	9L9 4511 40	UL tube		1
#001	9LN J017 11	FL holder		1

TUNER AMP SECTION

ADDENDUM PARTS LIST

TUNER/DISPLAY P.W.B. UNIT ASS'Y

Ref. No.	Part Name	Part No.			Remarks	Q'ty
		U.S.A. & Canada	Europe & U.K.	Asia		
SEMICONDUCTORS GROUP						
IC262	IC SAA6579T	9LC K044 51	9LC K044 51	—		
IC263	IC LC7074M	9LC K044 71	9LC K044 71	—		
D606	LED SPR-505MVW	9LC H011 31R	9LC H011 31R	—	Red-Green	
RESISTORS GROUP						
R105	Carbon film 22 ohm 1/16W	9L0 7000 18M	9L0 7000 18M	9L0 7000 18M	RD14S1J220JB	
R106	Carbon chip 1 kohm 1/32W	Need	—	Need	RMC73M-1F102JR	
R106	Carbon chip 390 ohm 1/32W	—	Need	—	RMC73M-1F391JR	
R113	Carbon chip 2.7 kohm 1/32W	Need	—	Need	RMC73M-1F272JR	
R113	Carbon chip 390 ohm 1/32W	—	Need	—	RMC73M-1F391JR	
R212	Carbon film 10 kohm 1/16W	—	9L0 7000 54M	9L0 7000 54M	RD14S1J103JB	
R212	Carbon film 6.8 kohm 1/16W	9L0 7000 52M	—	—	RD14S1J682JB	
R213	Carbon chip 8.2 kohm 1/32W	Need	Need	Need	RMC73M-1F822JR	
R282	Carbon chip 10 kohm 1/32W	Need	Need	—	RMC73M-1F103JR	
R283	Carbon chip 1 Mohm 1/32W	Need	Need	—	RMC73M-1F105JR	
R284,285	Carbon chip 1 kohm 1/32W	Need	Need	—	RMC73M-1F102JR	
R286	Carbon chip 1 Mohm 1/32W	Need	Need	—	RMC73M-1F105JR	
R630	Carbon chip 330 ohm 1/32W	Need	Need	—	RMC73M-1F331JR	
R631	Carbon chip 220 ohm 1/32W	Need	Need	—	RMC73M-1F221JR	
CAPACITORS GROUP						
C104	Ceramic 0.047 µF/50V	9LH 2400 67	—	9LH 2400 67	CK14F1H473ZB(050)	
C221	Ceramic 1000 pF/50V	—	—	9L0 8900 35M	CK14B1H102KB(050)	
C221	Ceramic 560 pF/50V	9L0 8900 32M	9L0 8900 32M	—	CK14B1H561KB(050)	
C222	Ceramic chip 0.047 µF/50V	Need	Need	Need	CK73MF1H473ZR	
C224	Mylar film 0.033 µF/50V	—	9L0 8800 13R	9L0 8800 13R	CQ92M1H333KB(AMZ)	
C224	Mylar film 0.047 µF/50V	9L0 8800 14R	—	—	CQ92M1H473KB	
C225	Mylar film 0.033 µF/50V	—	9L0 8800 13R	9L0 8800 13R	CQ92M1H333KB(AMZ)	
C225	Mylar film 0.047 µF/50V	9L0 8800 14R	—	—	CQ92M1H473KB	
C284,285	Ceramic chip 27 pF/50V	Need	Need	—	CK73MCH1H270JR	
C286	Electrolytic 47 µF/25V	9L0 8000 42Y	9L0 8000 42Y	—	CE04W1E470MB(SSL)	
C287	Electrolytic 2.2 µF/50V	9L0 8000 05Y	9L0 8000 05Y	—	CE04W1H2R2MB(SSL)	
C288	Electrolytic 47 µF/25V	9L0 8000 42Y	9L0 8000 42Y	—	CE04W1E470MB(SSL)	
C289	Ceramic chip 330 pF/50V	Need	Need	—	CK73MSL1H331JR	
C290	Ceramic chip 560 pF/50V	Need	Need	—	CK73MSL1H561JR	
C291	Ceramic chip 0.01 µF/50V	Need	Need	—	CK73MF1H103ZR	
C292	Electrolytic 47 µF/25V	9L0 8000 42Y	9L0 8000 42Y	—	CE04W1E470MB(SSL)	
OTHER PARTS GROUP						
CF101	Ceramic filter SFE10.7MA-8	9L2 1349 92	—	9L2 1349 92		1
CF101	Ceramic filter SFT10.7MS2-A	—	9LB N001 01	—		1
CF102	Ceramic filter SFE10.7MS2G-A	9LB N001 11	—	9LB N001 11		1
CF102	Ceramic filter SFT10.7MS2-A	—	9LB N001 01	—		1
FE101	Tuner pack (FE340-A01)	9LH H000 31	—	9LH H000 31		1
FE101	Tuner pack (FE415-G11)	—	9L2 4286 51	—		1
J58,59	Carbon chip 0ohm 1/32W	Need	—	Need	RMC73M-1F0O0R	2
X262	Crystal 4.332MHz	9L2 1701 33F	9L2 1701 33F	—		1
X263	Ceramic 4.00 MHz	9L2 7920 71	9L2 7920 71	—		1

MAIN P.W.B. UNIT ASS'Y

* As for "Note" in Part No. refer to ADDENDUM PARTS LIST

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC001	9LC P045 13	IC BA12ST	
IC002	9LC P024 11	IC KIA7805	
IC301	9L2 3016 92W	IC LC78211	
IC302	9L2 3883 01R	IC BA4558F	
IC401,402	9L2 3883 01R	IC BA4558F	
IC403	9LC K076 21R	IC BA6208F	
IC601	9LC K076 01	IC HD6433726H-D45	
IC602	9LC P007 12R	IC KIA7045P	
IC603	9LC K076 11R	IC BR9040F	
Q001	9L2 3286 25T	Transistor 2SB647(C)	
Q002	9L2 3256 91R	Transistor 2SC2412K(Q/R)	
Q003	9L2 3286 25T	Transistor 2SB647(C)	
Q004	9LC A006 61R	Transistor KTA1267GR	
Q401L,401R	9LC A005 81R	Transistor DTC323TK	
Q402L,402R	9LC A005 81R	Transistor DTC323TK	
Q501L,501R	9LC F011 81R	Transistor 2SA970(BL)	
Q502L,502R	9LC F011 81R	Transistor 2SA970(BL)	
Q503L,503R	9LC F012 01R	Transistor 2SC1841(E/F)	
Q504L,504R	9LC F012 01R	Transistor 2SC1841(E/F)	
Q505L,505R	9LC F012 01R	Transistor 2SC1841(E/F)	
Q506L,506R	9LC F011 91R	Transistor 2SA988(E/F)	
Q507L,507R	9L2 3181 91	Transistor 2SC1815(GR)	
Q508L,508R	9L2 3286 32	Transistor 2SD667A(C)	
Q510L,510R	9L2 3286 22	Transistor 2SB647A(C)	
Q512L,512R	9L2 3256 91R	Transistor 2SC2412K(Q/R)	
Q513	9LC A006 91R	Transistor 2SA1037AK(Q/R)	
Q514,515	9L2 3256 91R	Transistor 2SC2412K(Q/R)	
Q516	9LC A006 91R	Transistor 2SA1037AK(Q/R)	
Q517	9L2 3163 61R	Transistor DTC114EK	
Q518	9LC A005 81R	Transistor DTC323TK	
Q519,520	9L2 3256 91R	Transistor 2SC2412K(Q/R)	
Q521L,521R	9LC A003 01R	Transistor DTC143EK	
Q601	9LC A006 91R	Transistor 2SA1037AK(Q/R)	
Q602,603	9L2 3256 91R	Transistor 2SC2412K(Q/R)	
Q604	9LC A002 92R	Transistor DTA144EK	
Q605	9L2 3166 91R	Transistor DTC144EK	
Q606	9LC A002 91R	Transistor DTA114EK	
D001	9L2 3374 61W	Diode S4VB20	
D002	9LC C007 01R	Diode S1B	
D003,004	9L2 3980 61T	Diode 1N4002	
D005,006	9L2 3989 21T	Diode 1N4531/1SS133	
D007	9LC C000 03R	Diode 1SS355	
D008	9LC C007 01R	Diode S1B	
D009,010	9LC C006 61R	Diode RB160L-40(chip)	
D011, 012	NOTE	NOTE	
D301	9L2 3989 21T	Diode 1N4531/1SS133	
D501L,501R	9LC C000 03R	Diode ISS355	
D502L,502R	9L2 3312 32M	Diode 1S2471B	
D503L,503R	9L2 3312 32M	Diode 1S2471B	
D504L,504R	9LC C000 03R	Diode ISS355	
D506,507	9LC C000 03R	Diode ISS355	
D508	9LC H019 71	LED LH5230/P1	Red
D509, 510	9LC C000 03R	Diode 1SS355	
D602	NOTE	NOTE	
D603	NOTE	NOTE	
D605	NOTE	NOTE	
D609	9LC C000 03R	Diode 1SS355	
D610	9L2 3989 21T	Diode 1N4531/1SS133	
ZD001	9L2 3482 71M	Zener diode MTZ-J27A	27V
ZD002	9L2 3481 11M	Zener diode MTZ-J5.6A	5.6V
ZD003	9L2 3481 93M	Zener diode MTZ-J12C	12V
ZD601,602	9L2 3481 21M	Zener diode MTZ-J6.2A	6.2V
⚠ PR001~003	9L2 7262 21R	IC protector ICP-N5	
RESISTORS GROUP			
R001	9LH 1390 06	Composition 2.7 Mohm 1/2W	RC14GF2H275KBFO, U.S.A. & Canada models only
R002	9LH 1133 71	Carbon film 3.3 kohm 1/2W	RD14S2H332JB
R003	9L0 7000 54M	Carbon film 10 kohm 1/16W	RDL-103J1-16LT
R004~007		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R008	9LH 1133 62	Carbon film 2.2 kohm 1/2W	RD14S2H222JB
R009	9LH 1296 01	Carbon film 1 kohm 1/4W	RD14S2E102JB
R010		Carbon chip 33 kohm 1/32W	RMC73M-1F333JR
R011		Carbon chip 8.2 kohm 1/32W	RMC73M-1F822JR
R012		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R301,302		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR
R303,304		Carbon chip 82 kohm 1/32W	RMC73M-1F823JR
R305,306		Carbon chip 820 ohm 1/32W	RMC73M-1F821JR
R307,308		Carbon chip 6.8 kohm 1/32W	RMC73M-1F682JR
R309,310		Carbon chip 5.6 kohm 1/32W	RMC73M-1F562JR
R311,312		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R313,314		Carbon chip 820 ohm 1/32W	RMC73M-1F821JR
R315,316		Carbon chip 6.8 kohm 1/32W	RMC73M-1F682JR
R317,318		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R319,320		Carbon chip 7.5 kohm 1/32W	RMC73M-1F752JR
R321,322		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R323,324		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR

TUNER AMP SECTION

Ref. No.	Part No.	Part Name	Remarks
R325		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR
R326		Carbon chip 680 kohm 1/32W	RMC73M-1F684JR
R327,328		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR
R329,330		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R331,332		Carbon chip 3.6 kohm 1/32W	RMC73M-1F362JR
R333,334		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR
R401L,401R		Carbon chip 24 kohm 1/32W	RMC73M-1F243JR
R402L,402R		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R403L,403R		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R404L,404R		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R405L,405R		Carbon chip 39 kohm 1/32W	RMC73M-1F393JR
R406L,406R		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R407L,407R		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R408L,408R		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R409L,409R		Carbon chip 27 kohm 1/32W	RMC73M-1F273JR
R410L,410R		Carbon chip 7.5 kohm 1/32W	RMC73M-1F752JR
R411L,411R		Carbon chip 330 ohm 1/32W	RMC73M-1F331JR
R412L,412R		Carbon chip 470 kohm 1/32W	RMC73M-1F474JR
R501L		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R501R	9L0 7000 41M	Carbon film 1 kohm 1/16W	RDL-102J1-16LT
R502L,502R		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR
R503L,503R		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R504L,504R		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR
R505L,505R		Carbon chip 12 kohm 1/32W	RMC73M-1F123JR
R506L,506R		Carbon chip 30 ohm 1/32W	RMC73M-1F300JR
R507L,507R	9LA T011 77R	Fusible 2.2 kohm 1/4W (FR)	RN45B2E222JB-FR
R508L,508R	9LA T011 77R	Fusible 2.2 kohm 1/4W (FR)	RN45B2E222JB-FR
R509L,509R	9L0 7000 55M	Carbon film 12 kohm 1/16W	RDL-123J1-16LT
R510L,510R		Carbon chip 47 ohm 1/32W	RMC73M-1F470JR
R511L,511R		Carbon chip 430 ohm 1/32W	RMC73M-1F431JR
R512L,512R	9LA T012 47T	Carbon film 130 ohm 1/4W	RD14S2E131J
R513L,513R	9LA T012 47T	Carbon film 130 ohm 1/4W	RD14S2E131J
⚠R514L,514R	9LA T011 74R	Fusible 68 ohm 1/4W (FR)	RD45B2E680JNB-FR
R515L,515R		Carbon chip 5.6 kohm 1/32W	RMC73M-1F562JR
R516L,516R		Carbon chip 75 kohm 1/32W	RMC73M-1F753JR
R517L,517R		Carbon chip 9.1 kohm 1/32W	RMC73M-1F912JR
R518L,518R	9LA T012 53T	Carbon film 220 ohm 1/4W	RD14S2E221J1
R519L,519R	9LA T010 12R	Metal oxide 0.22 ohm 1W	RE-R22J0001N
R520L,520R	9LA T010 12R	Metal oxide 0.22 ohm 1W	RE-R22J0001N
R521L,521R	9LA T010 12R	Metal oxide 0.22 ohm 1W	RE-R22J0001N
R522L,522R	9LA T010 12R	Metal oxide 0.22 ohm 1W	RE-R22J0001N
R523L,523R		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R524L,524R		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R525L,525R		Carbon chip 20 kohm 1/32W	RMC73M-1F203JR
R526L,526R		Carbon chip 270 kohm 1/32W	RMC73M-1F274JR
R527L,527R		Carbon chip 20 kohm 1/32W	RMC73M-1F203JR
R528L,528R	9L0 7000 05M	Carbon film 2.2 kohm 1/16W	RDL-2R2J1-16LT
R529L,529R		Carbon chip 0ohm 1/32W	RMC73M-1F000R
R530L,530R	9LA T010 47R	Metal oxide 4.7 ohm 1W	RE-4R7J0001N
R531		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R532		Carbon chip 13 kohm 1/32W	RMC73M-1F133JR
R533L,533R		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R534		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R535L,535R	9LH 1132 89	Carbon film 150 ohm 1/2W	RD14S2H151JB
R536	9LH 1295 53	Metal oxide 82 ohm 1/4W	RES 1/4W 82 ohm
R537		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R538,539		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R540		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR
R541		Carbon chip 20 kohm 1/32W	RMC73M-1F203JR
R542		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR
R542L,542R	9LH 1132 90	Carbon film 180 ohm 1/2W	RD14S2H181JB
R543	9L0 1870 96M	Carbon film 20 kohm 1/16W	RDL-203J1-16LT
R543L,543R		Carbon chip 0ohm 1/32W	RMC73M-1F000R
R544R		Carbon chip 0ohm 1/32W	RMC73M-1F000R
R601		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R602		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R603		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R604		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R605,606		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R607		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR
R608,509		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R610~612		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R613		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R614		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R615		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR
R616		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R617		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R618~620		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R621,622		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R623~631		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R632	9L0 7000 41M	Carbon film 1 kohm 1/16W	RD14S1J102JB
R633		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
RV401,402	9LA Y001 88	Variable resistor 50 kohm	BASS,TREBLE
RV403	9LA Y003 91	Variable resistor 100 kohm	BALANCE
RV404	9LA Y002 51	Variable resistor 100 kohm RK16812MG	VOLUME (Motor)
VR502L,502R	9L0 1603 17	Semi fixed resistor 5 kohm	RT6-3V502

CAPACITORS GROUP

C001	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C002	9LA L012 61R	Electrolytic 100 µF/50V	RJ350V101M
C003	9LA L012 62R	Electrolytic 10 µF/50V	RJ350V100M
C004~006	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C007,008	9L0 8932 42R	Ceramic 0.022 µF/50V	CKM-223Z500F
C009	9L0 8000 53Y	Electrolytic 100 µF/50V	CE04W1H101MB(SSL)
C010	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C011	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C012	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C013	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F

Ref. No.	Part No.	Part Name	Remarks
C014,015	9LA L004 71	Electrolytic 8200 µF/50V	CE04W1H822M
C016	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C017	9L0 8000 18Y	Electrolytic 10 µF/50V	E04W1H100MB(SSL)
C018	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C019	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C020	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C021	9LA L004 76Q	Electrolytic 220 µF/25V	CE04W1E222M
C022	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C023	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C301	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C302,303		Ceramic chip 680 pF/50V	CCM-681J500SL
C304,305		Ceramic chip 10 pF/50V	CCM-100J500SL
C306,307		Ceramic chip 220 pF/50V	CCM-221J500SL
C308	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C309,310		Ceramic chip 10 pF/50V	CCM-100J500SL
C311	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C312~315		Ceramic chip 220 pF/50V	CCM-221J500SL
C316	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C317	9L0 8932 42R	Ceramic 0.022 µF/50V	CKM-223Z500F
C318,319	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C320,321		Ceramic chip 100 pF/50V	CCM-101J500SL
C322,323	9L0 8000 16Y	Electrolytic 10 µF/25V	CE04W1E100MB(SSL)
C324	9L0 8932 42R	Ceramic 0.022 µF/50V	CKM-223Z500F
C325,326	9L0 8000 16Y	Electrolytic 10 µF/25V	CE04W1E100MB(SSL)
C401L,401R	9LH 2740 32K	Mylar film 1800 pF/50V	CQ92M1H182KEBK
C402L,402R	9L0 8800 12R	Mylar film 0.022 µF/50V	CQ92M1H223KEBK
C403L,403R	9L0 8800 12R	Mylar film 0.022 µF/50V	CQ92M1H223KEBK
C404L,404R	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C405L,405R		Ceramic chip 220 pF/50V	CCM-221J500SL
C406L,406R		Ceramic chip 220 pF/50V	CCM-221J500SL
C407L,407R	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C408L,408R	9L0 8000 42Y	Electrolytic 47 µF/25V	CE04W1E470MB(SSL)
C409L,409R	9L0 2539 42R	Electrolytic 0.22 µF/50V	CE04W1HR22MB
C410L,410R	9L0 2539 41R	Electrolytic 0.15 µF/80V	CE04W1KR15MB
C411	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C412	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C413		Ceramic chip 0.1 µF/16V	CK73MB1C104KR
C414	9L0 8800 09R	Mylar film 0.01 µF/50V	CQ92M1H103KB
C415	9L0 8900 87R	Ceramic 1000 pF/50V	CK14B1H102KB(050)
C423,424	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB
C501L,501R	9L0 8000 16Y	Electrolytic 10 µF/25V	CE04W1E100MB(SSL)
C502L,502R		Ceramic chip 220 pF/50V	CC73MSL1H221J
C503L,503R		Ceramic chip 220 pF/50V	CC73MSL1H221J
C504L,504R		Ceramic chip 6800 pF/50V	CK73MB1H682J
C505L,505R		Ceramic chip 10 pF/50V	CC73MSL1H100J
C506L,506R	9L0 8800 03R	Mylar film 1000 pF/50V	CQ92M1H102KB
C507L,507R	9L0 8800 03R	Mylar film 1000 pF/50V	CQ92M1H102KB
C508L,508R	9L0 8000 59Y	Electrolytic 220 µF/25V	CE04W1E221MB(SSL)
C509L,509R	9L0 2478 76R	Ceramic 18 pF/500V	CC45SL2H180KB

Ref. No.	Part No.	Part Name	Remarks
C510,511	9L0 8000 53Y	Electrolytic 100 µF/50V	CE04W1H101MB(SSL)
C513L,513R	9L0 8000 12Y	Electrolytic 4.7 µF/50V	CE04W1H4R7MB(SSL)
C514L,514R	9L0 8000 03Y	Electrolytic 1 µF/50V	CE04W1H1R0MB(SSL)
C515L,515R	9L0 2435 05R	Ceramic 220 pF/500V	CK45B2H221KB
C516L,516R	9L0 8000 12Y	Electrolytic 4.7 µF/50V	CE04W1H4R7MB(SSL)
C517L,517R		Ceramic chip 0.01 µF/50V	CK73MB1H103K
C518L,518R	9L0 8800 16R	Mylar film 0.1 µF/50V	CQ92M1H104KEB
C519		Ceramic chip 0.01 µF/50V	CK73MB1H103K
C520	9L0 8000 64R	Electrolytic 330 µF/6.3V	CE04W0J331MB
C521,522	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C523	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C524,525	9L0 8800 09R	Mylar film 0.01 µF/50V	CQ92M1H103KB
C526	9L0 8000 42Y	Electrolytic 47 µF/25V	CE04W1E470MB(SSL)
C527L,527R	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C528,529	9L0 8000 18Y	Electrolytic 10 µF/50V	CE04W1H100MB(SSL)
C601,602		Ceramic chip 1000 pF/50V	CCM-102J500SL
C603	9L0 8000 26Y	Electrolytic 22 µF/50V	CE04W1H220MB(SSL)
C604,605	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C608	9L0 8000 48R	Electrolytic 100 µF/10V	CE04W1A101MB
C609		Ceramic chip 1000 pF/50V	CCM-102J500SL
C610	9L0 8932 39R	Ceramic 0.01 µF/50V	CKM-103Z500F
C611~613	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C614	9LH 2400 67	Ceramic 0.047 µF/50V	CK14F1H473ZB(050)
C615	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C616	9LH 2400 67	Ceramic 0.047 µF/50V	CK14F1H473ZB(050)
C617	9L0 8932 46R	Ceramic 0.047 µF/50V	CKM-473Z500F
C619	9L0 2846 48R	Electrolytic 22 µF/25V (BP)	CE04W1E220MB (BP)

OTHER PARTS GROUP				Q'ty
CH502A,502B	9L2 6745 93	PRG-cable holder 05P		2
CN002	9LE F059 12	3P VH board-in		1
CN003	9LE F031 86	4P MX B-C connector		1
CN101B	9LE Y005 18	B/B pin header 9130B-10		1
CN102B	9LE Y000 82	B/B pin header 9110B-13		1
CN103B	9LE D016 67	1.25mm FFC connector 39P		1
CN104B	9LE D007 72	1.25mm FFC connector 7P	Europe & U.K. models only	1
CN301	9LE D014 05	3P MX board-in		1
CN401	9LE F042 52	5P PH board-in		1
CN402	9LE F018 17	6P PH board-in		1
CN501	9LE Y000 99	11P B to B socket (9110S)		1
CN502A	9LE Y005 18	B/B pin header 9130B-10		1
CN502B	9LE Y004 88	10P B to B socket (9130S)		1
CN503	9LE D014 08	MX 5P connector		1
E001,002	9L2 7292 52R	Fuse holder		2
E003,004	9L2 7292 52R	Fuse holder	U.S.A. & Canada models only	2
E005,006	NOTE	NOTE		2

TUNER AMP SECTION

Ref. No.	Part No.	Part Name	Remarks	Q'ty
E100	9L5 4440 8	Lug terminal		1
J15		Carbon chip 0ohm 1/4W	RK73Z2ETD0 J	1
J30		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J41		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J84,85		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J98		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J106		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J113		NOTE	NOTE	1
J134		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J148		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J150		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J183		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J188,189		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J200		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J501		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J513,514		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J516,517		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J519,520		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J543		Carbon chip 0ohm 1/4W	RK73Z2ETD0 J	1
J545		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J547		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J549		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J562		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J567		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J568,569		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J572,573		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J576-580		Carbon chip 0ohm 1/32W	RMC73M-1F000R	5
J587		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J592,593		Carbon chip 0ohm 1/32W	RMC73M-1F000R	2
J594		Carbon chip 0ohm 1/4W	RK73Z2ETD0 J	1
J595~597		Carbon chip 0ohm 1/32W	RMC73M-1F000R	3
J602		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J607		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
J610		Carbon chip 0ohm 1/32W	RMC73M-1F000R	1
⚠JK001	NOTE	NOTE		1
⚠JK001	NOTE	NOTE		1
JK301	9LE R003 92	3P US pin jack (white)		1
JK302	9LE R003 91	3P US pin jack (red)		1
JK303	9LE R003 92	3P US pin jack (white)		1
JK304	9LE R003 91	3P US pin jack (red)		1
JK501	9LE U000 86	4P SP terminal		1
JK503	9LE R002 41	1P US pin jack		1
JK601,602	9L2 6714 13	3.5 mini jack		2
L501L,501R	9L2 2273 63	Trap coil 1μH		2
N001	9L4 5372 34	Style pin		1
PG001	9L2 6742 84	PLG-VH plug 2P4		1
PG002	9L2 6688 12W	3.96mm pin header (B3P-VH)		1
PG003	9L2 6742 63	MX mini pin post 4P		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
PG104	9L2 9991 22	MX pin post 3P (2.5mm)	U.S.A. & Canada models only	1
PG301	9L2 6742 62	MX mini pin post 3P		1
PG401	9L2 9590 54	PH pin post (A2001WV2-5P)		1
PG402	9L2 9590 55	TXL-P06P-B1		1
PG501	9LE Y000 79	B/B pin header 9110B-11		1
PG502	9L2 6586 94W	TXL-P05P-B1		1
PG503	9L2 6742 64	MX mini pin post 5P		1
RY501	9L2 6413 21	Relay OSA-SS-224DM3		1
TH501	9LC J001 54	Posistor PTH9M04BC222TS2F333		1
W001	9LE K002 99	1P board-in connector (ORG) 125mm		1
W002	9LE K004 86	1P board-in connector (GRY) 125mm		1
W102		UL wire #24S BLK		1
W301		UL wire #24S BLK		1
W304		UL wire #22S BLK	U.S.A. & Canada models only	1
W415		UL wire #24S BRN		1
W502	9LE D017 64	Ribbon wire 5P		1
X601	9LB P008 31	Ceramic 8.38MHz		1
#002	9L8 6914 10	Screw 3 x 10 BT bind		2
#003	9LM A009 31	Heat sink L		1
#004	9LM D033 02	Shield plate		1
#005	NOTE	NOTE		1
#006	NOTE	NOTE		1
#007	9LM N005 42	Insulate sheet	For C014,C015	2

ADDENDUM PARTS LIST

MAIN P.W.B. UNIT ASS'Y

Ref. No.	Part Name	Part No.			Remarks	Q'ty
		U.S.A. & Canada	Europe & U.K.	Asia		
SEMICONDUCTORS GROUP						
D011,012	Diode RB160L-40 (chip)	—	9LC C006 61R	9LC C006 61R		
D602	Diode 1N4531/1SS133	9L2 3989 21T	—	9L2 3989 21T		
D603	Diode 1N4531/1SS133	—	9L2 3989 21T	9L2 3989 21T		
D605	Diode 1N4531/1SS133	9L2 3989 21T	9L2 3989 21T	—		
OTHER PARTS GROUP						
E005,006	Fuse holder	—	9L2 7292 52R	9L2 7292 52R		2
J113	Carbon chip 0ohm 1/32W	—	Need	Need	RMC73M-1F000R	1
JK001	AC outlet	9LE P001 32	9LE P000 91	9LE P000 91		1
#005	Shield plate	—	9LM D033 41	9LM D033 41		1
#006	Cushion felt	—	9L4 6848 69W	9L4 6848 69W		1

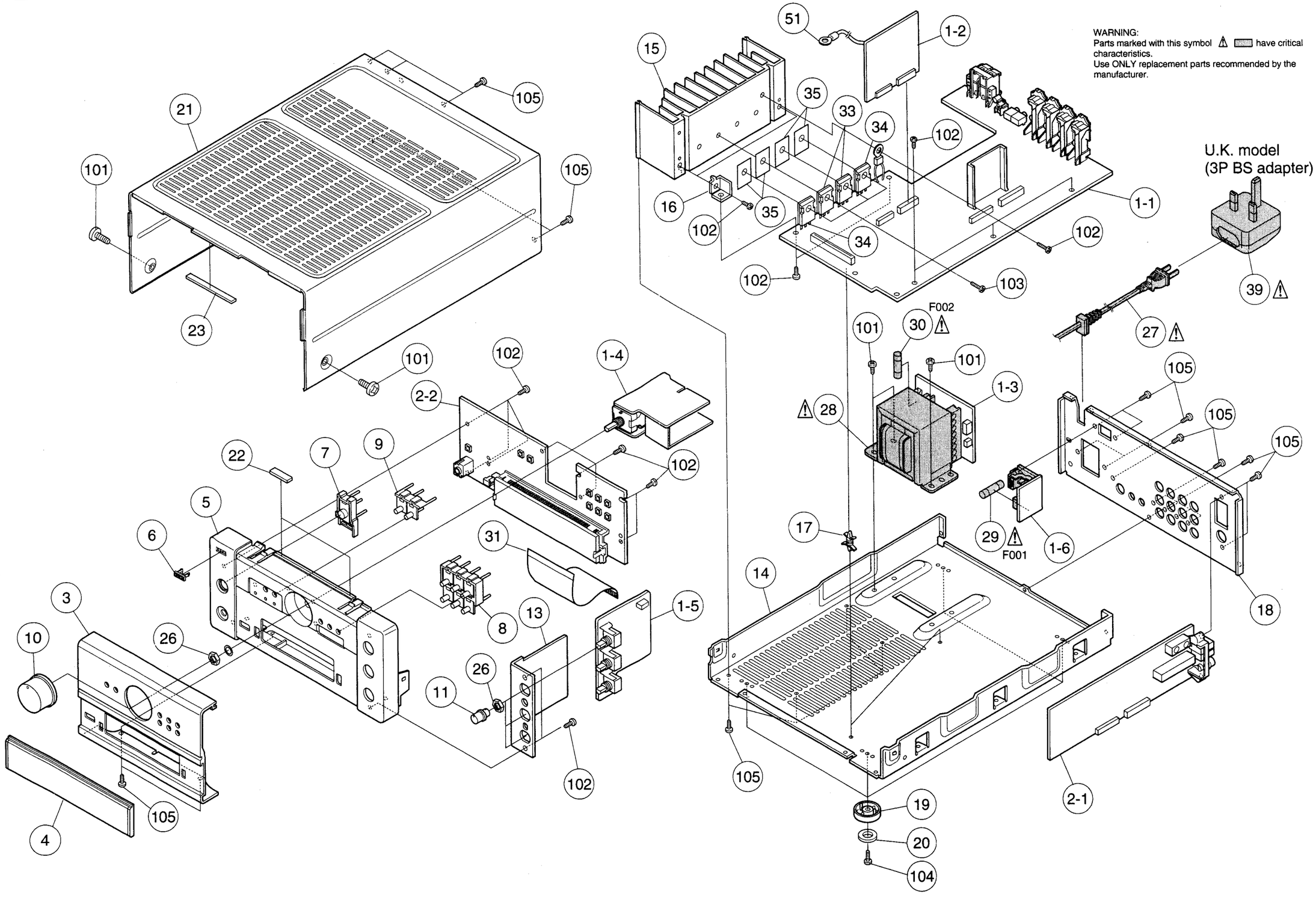
TUNER AMP. SECTION

EXPLODED VIEW

1 2 3 4 5 6 7 8

A B C D E

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.



PARTS LIST OF EXPLODED VIEW

TUNER AMPLIFIER SECTION

* As for "Note" in Part No. refer to ADDENDUM PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	NOTE	Main P.W.B. unit ass'y		1
1-1		Main unit		
1-2		Pre-amp. unit		
1-3		PT unit		
1-4		Volume unit		
1-5		Tone unit		
1-6		AC outlet unit		
2	NOTE	Tuner/disp. P.W.B. unit ass'y		1
2-1		Tuner unit		
2-2		Disp. unit		
3	NOTE	Front panel AL (UDRA)	Aluminum	1
4	9LP H058 23	Clear panel (UDRA)	Window	1
5	9LP H059 21	Front panel (UDRA)	Plastic molding	1
6	9LP U003 31	DENON badge		1
7	NOTE	Power button		1
8	NOTE	Function button		1
9	NOTE	Display button		1
10	NOTE	Volume knob ass'y		1
11	NOTE	Tone knob		3
★ 12	9LM E016 51	Shield sheet (trans)		1
13	9LN A215 71	Tone bracket		1
14	9LQ A012 31	Bottom chassis		1
15	9LN D001 91	Heat sink (M10)		1
16	9LN A083 31	PWB bracket C		2
17	9LM L004 41	PWB support (MLPLS-4)		2
18	NOTE	Rear plate		1
19	9LQ J003 91	Foot		4
20	9LM S002 11	Felt		4
21	9LQ A009 11	Top cover		1
22	9L4 8583 32	Spacer 14x8		2
23	9L4 8583 36	Spacer 60x8		1
★ 24	9L4 9303 12	Number sheet		1
25	NOTE	Origin label	Place of origin	1
26	9LM K002 46	Nut M9 x 0.75		4
⚠ 27	NOTE	AC cord	AP1	1
⚠ 28	NOTE	Power trans	PT301	1
⚠ 29	NOTE	NOTE	F001	1
⚠ 30	NOTE	NOTE	F002	1
31	9LE K001 19	39P FFC cable	W101	1
★ 32	9L3 9737 31	Bar lock tie		4
33	9LC F011 51	Transistor 2SC4278 (E/F)	Q509L,509R	2
34	9LC F011 61	Transistor 2SA1633 (E/F)	Q511L,511R	2
35	9LM F001 73	Insulation sheet		4
★ 36	NOTE	RDS indicator		1
★ 37	9L4 9485 11	Fuse caution label	U.S.A. & Canada models only	1
★ 38	9LQ L050 11	Caution label	U.S.A. & Canada models only	1
⚠ 39	9LE P000 62	3P BS adaptor	U.K. model only	1
★ 40	9LE D026 21	3P EH-MX connector (P=2.5)	CN104, U.S.A. & Canada models only	1
★ 41	9LE K002 35	7P FFC cable	W102, Europe & U.K. models only	1
★ 42	9L4 9485 13	Caution label	U.S.A. & Canada models only	1
51	9L5 4440 8	Lug terminal	E100	1
★ 52	9L0 8800 09R	Mylar film 0.01 mF/50V	C414, CQ92M1H103KB	1
★ 53	9L0 8900 87R	Ceramic 1000 pF/50V	C415, CK14B1H102KB(050)	1
★ 54		UL wire #22S BLK	W307, U.S.A. & Canada models only	1
★ 55	9L4 6921 00W	Spacer		1
SCREWS				
101	9L8 6796 06	Screw 4x6 DT bind B		6
102	9L8 6914 10	Screw 3x10 BT bind		NOTE
103	9L8 6914 14	Screw 3x14 BT bind		4
104	9L8 6994 08	Screw 3x8 BT bind B		4
105	9L8 6994 10	Screw 3x10 BT bind B		23

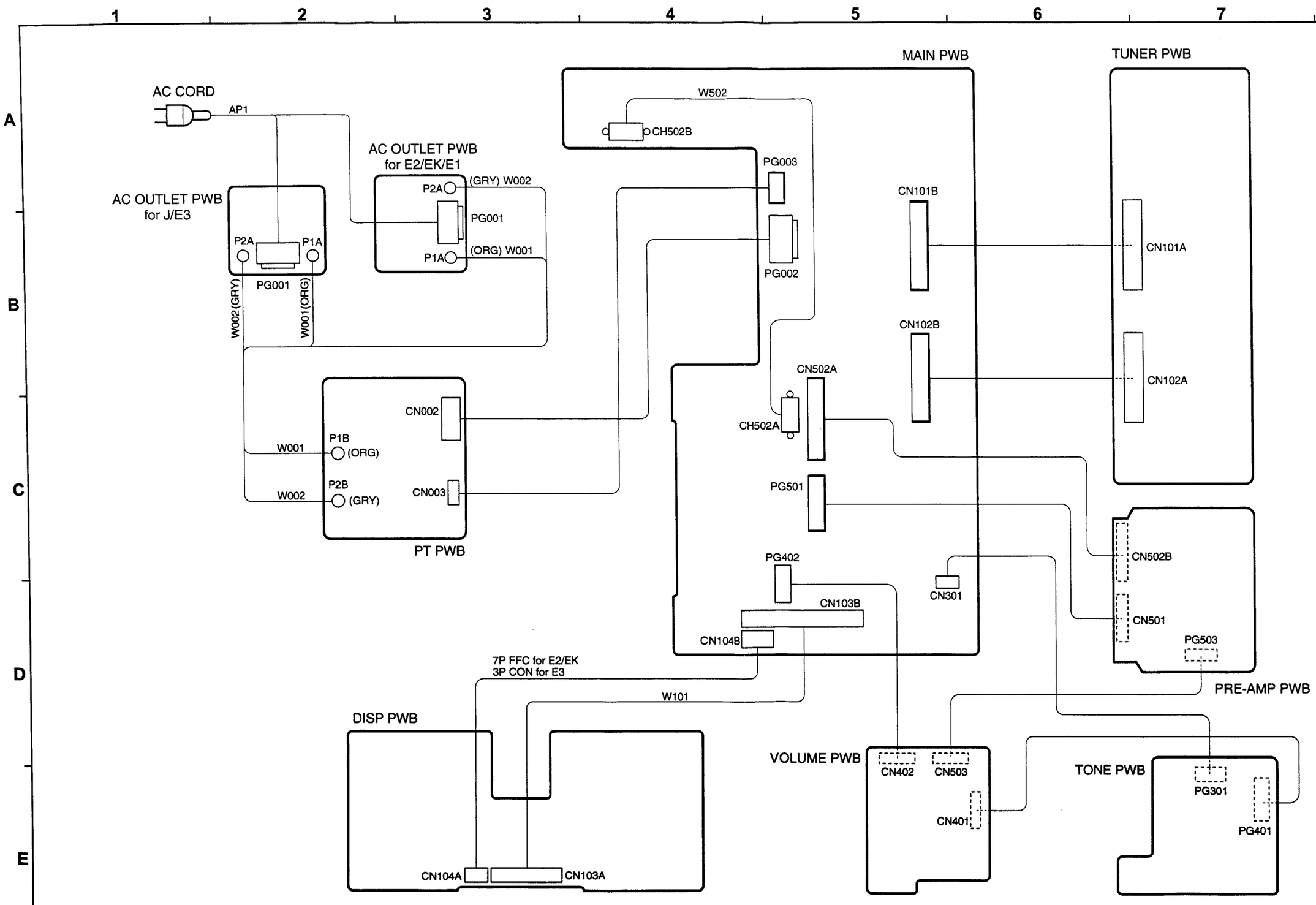
ADDENDUM PARTS LIST OF EXPLODED VIEW

TUNER AMPLIFIER SECTION

Ref. No.	Part Name	U.S.A/Canada		Europe		U.K.		Asia		Remarks
		Part No.	Q'ty	Part No.	Q'ty	Part No.	Q'ty	Part No.	Q'ty	
1	Main P.W.B. unit ass'y	9LJ T083 61		9LJ T083 62		9LJ T083 63		9LJ T083 66		
2	Tuner/disp. P.W.B. unit ass'y	9LJ T084 01		9LJ T084 02		9LJ T084 03		9LJ T084 06		
3	Front panel AL (UDRA)	9LP M065 41		9LP M065 42		9LP M065 42		9LP M065 43		Aluminum
7	Power button	9LP C022 91		9LP C022 91		9LP C022 91		9LP C022 92		
8	Function button	9LP C030 91		9LP C030 91		9LP C030 91		9LP C030 92		
9	Display button	9LP C031 01		9LP C031 01		9LP C031 01		9LP C031 02		
10	Volume knob ass'y	9LP C023 03		9LP C023 03		9LP C023 03		9LP C023 04		
11	Tone knob	9LP C023 31		9LP C023 31		9LP C023 31		9LP C023 32		
18	Rear plate	9LQ A012 41		9LQ A012 42		9LQ A012 42		9LQ A012 43		
★ 25	Origin label	9L4 9313 06		9LQ NO29 74		9LQ NO29 74		9L4 9313 06		Place of origin
⚠ 27	AC cord	9LE V007 02		9LE V005 85		9LE V005 85		9LE V005 85		AP1
⚠ 28	Power trans	9LB T011 43		9LB T011 42		9LB T011 42		9LB T011 42		PT301
⚠ 29	Fuse 3A 125V	9L2 7224 16		—		—		—		F001
⚠ 29	Fuse T3.15A 250V	—		9L2 7216 15		9L2 7216 15		9L2 7216 15		F001
⚠ 30	Fuse 2A 125V	9L2 7224 14		—		—		—		F002
⚠ 30	Fuse T800mA 250V	—		9L2 7280 71		9L2 7280 71		9L2 7280 71		F002
★ 36	RDS indicator	9LP H046 02		9LP H046 01		9LP H046 01		—		
SCREWS										
102	Screw 3x10 BT bind	9L8 6914 10	21	9L8 6914 10	21	9L8 6914 10	21	9L8 6914 10	19	

TUNER AMP SECTION

WIRING DIAGRAM

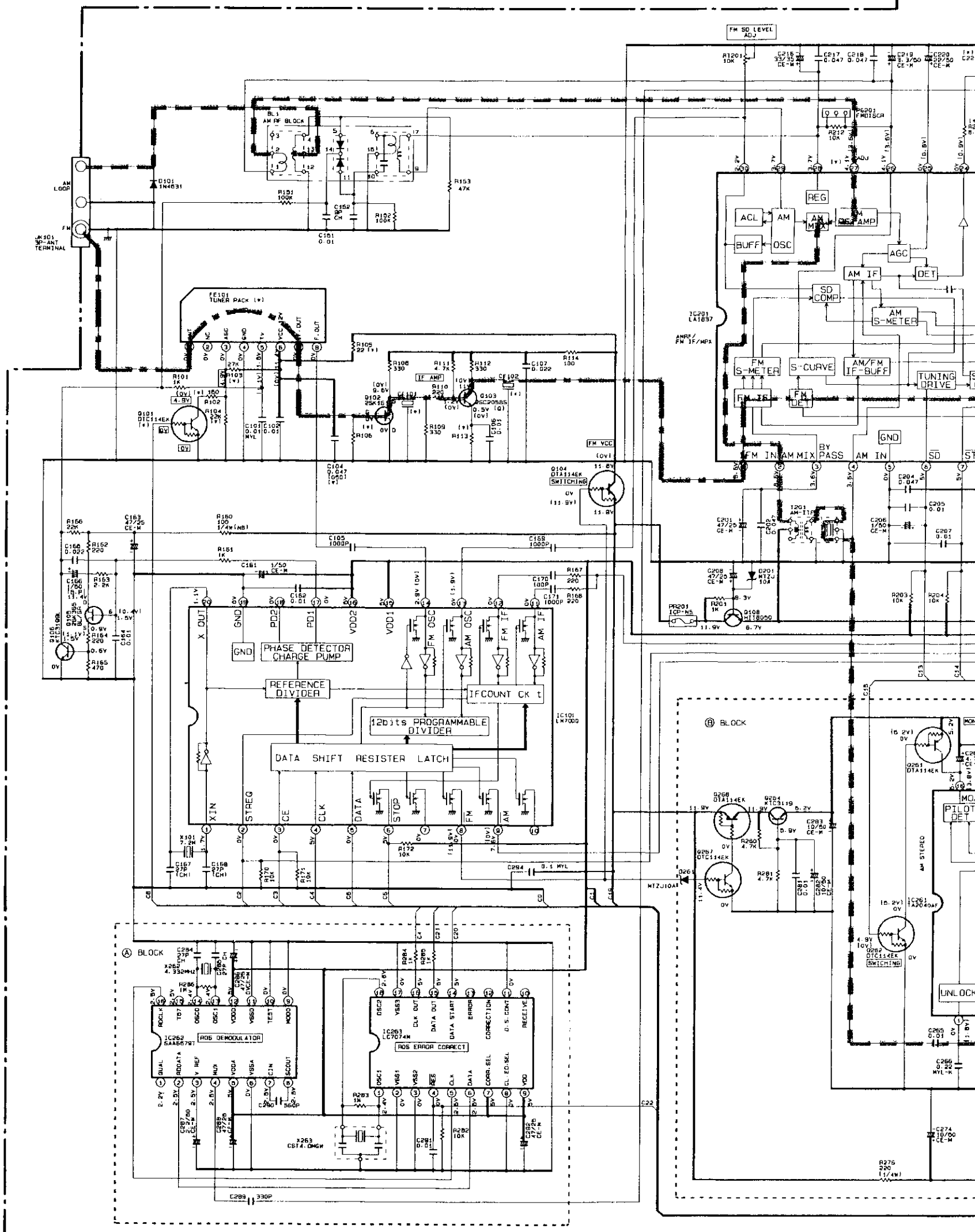


SCHEMATIC DIAGRAMS (1/3)

1 2 3 4 5

TUNER PWB ASS'Y UNIT TABLE OF DIFFERENCE TUN. DISP(CICUIT)

P#/D#	R102	R103	R104	Q101	R105	CF101	CF102	FE101	J203 T204	J68 J69	C226 C227	R232	C224 C225	C221	A-BLOCK	B-BLOCK	C222	R213	C104	R106	R113	C232
1 (A) E9	X	X	X	X	22	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	6.8K	0.047	560P	O	X	O	O	O	1K	2.7K	X
2,3 (B,C)E2	O	O	O	O	22	SFT10.7 MS2-A	SFT10.7 MS2-A	4-TUNE	O	X	O	10K	0.033	560P	O	X	O	O	X	390	390	X
6 (F) E1	X	X	X	X	22	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	10K	0.033	1000P	X	X	O	O	O	1K	2.7K	X
8 (H) J	X	X	X	X	150	SFE10.7 MA-B	SFE10.7 MS26-A	3-TUNE	X	O	X	6.8K	0.033	1000P	X	O	X	X	X	390	220	O
NOTE	FM A.G.C				(+B)IF FILTER	BAND-Width		FRONT END	FM 19kHz LPF			MUTE-BAND-Width	DE-EMPHASIS	SEPARATION	A.D.S	AM STEREO			FM IF			



NOTICE

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R113	C232
2.7K	X
380	X
2.7K	X
220	O

DISP. PWB ASS'Y UNIT TABLE OF DIFFERNCE

P#/D#	D606 R930 R931	R632~R635 D607 D608	CN104A (7PFFC)	CN104 (3PMx)	C851 C852
1 (A) E3	O	X	X	O	X
2.318.C) E2/EK	O	O	O	X	O
6 (F) E1	X	X	X	X	X
8 (H) J	X	X	X	X	X
NOTE	AT	AT.TA.PTY ROS		AT	0.01U EMC

TO MAIN P.W.B UNIT P6104

TO MAIN P.W.B CN103B

CN103A

CN104A TO MAIN P.W.B UNIT CN104B

D16P P.W.B. Unit

FL601

POWER DISP TIMER BAND NONG/ST DOWN FUNC UP MEMO

TA PTY

FM SD LEVEL ADJ

IC201 LA1837 ANRE/ FM IF/MPX

REG ACL BUFF OSC AM MIX AM RF AMP AGC AM IF DET SD COMP AM S-METER FM S-METER S-CURVE AM/FM IF-BUFF TUNING DRIVE STEREO DRIVE FM IF FM DET

DECODER ANTI-BIADIE P-DET STEREO SW MUTE VCO 304KHZ FF 38K FF 19K FF 19K PILOT DET 33K

GND VCC FM IN AM MIX BY PASS AM IN SD ST FM DET AM VSM IF BUFF /MUTE P-DET MONO/ST

Ⓑ BLOCK

MONO/ST SWITCH

MO/ST LPF2 PILOT DET PHASE COMP PILOT IN PILOT OUT MODE VCC LED DRIVER

AM STEREO

LIMIT ENV DET EAR AMP I-DET VCA Q-DET 1/8 DEV 1/16K PHASE DET VCO GND UNLOCK IF AMP AGC MATRIX LPF

AT AM MODE ( ) AM STEREO

CN101A TO MAIN PWB UNIT CN101B (S130)

CN102A TO MAIN PWB UNIT CN102B (S110)

C0 D GND 1 · C1 +B (8V) 2 · C2 PLL STRO 3 · C3 PLL CE 4 · C4 CLK 5 · C5 PLL DATA 6 · C6 STOP IN 7 · C8 L/DX 9 · C9 TU MUTE 10 · C10 R OUT 1 · C11 A GND 2 · C12 L OUT 3 · C13 5Ω 4 · C14 STEREO IN 5 · C15 AUTO/MONO 6 · C17 A GND 8 · C18 AM STEREO 9 · C19 +B (12V) 10 · C20 ROS START 11 · C21 ROS DATA 12 · C22 ROS REF 13

FM MODE
( ) AM MODE
[ ] FOR E2 DEST. ONLY

TUNER P.W.B. UNIT

th this symbol ⚠ ▨ have critical characteristics.
ement parts recommended by the manufacturer.

the unit to the customer, make sure you make either (1) a
check or (2) a line to chassis resistance check. If the leakage
0.5 milliamps, or if the resistance from chassis to either side
rd is less than 460 kohms, the unit is detective.

he unit to the customer until the problem is located and

DISP. PWB ASS'Y UNIT TABLE OF DIFFERNCE

P#/O#	D506 R530 R531	R632~R635 D607 D608	CN104A (7PFFC)	CN104 (3PNX)	C651 C652
1 (A) E3	○	×	×	○	×
2, 3 (B, C) E2/EK	○	○	○	×	○
6 (F) E1	×	×	×	×	×
8 (H) J	×	×	×	×	×
NOTE	AT	AT, TA, PTY		AT	0.05u
	ROS				EMC

TO MAIN P.W.B UNIT P6104

TO MAIN P.W.B CN103B

FL601

POWER DISP TIMER BAND MONO/ST DOWN FUNC UP MEMO

REMOTE-SENSOR PIC-210431H2

HEAD PHONE JACK

Disp P.W.B. Unit

TA PTY

DECODER ANTI-DIADIE

STEREO SW

MUTE

VCO 304KHZ

FF 38K

FF 19K

FF 19K

PILOT DET

AM VSM

IF BUFF /MUTE

P-DET

MONO/ST

33K

Q111 DTC3231K

Q113 DTC3231K

Q112 DTC3231K

Q114 DTC3231K

Q110 DTA114EK

Q109 DTC114EK

D202 1N4531

CN101A TO MAIN PWB UNIT CN101B (9130)

CN102A TO MAIN PWB UNIT CN102B (9110)

C0 D GND
C1 +B (5V)
C2 PLL STRO
C3 PLL CE
C4 CLK
C5 PLL DATA
C6 STOP IN
C8 L/OX
C9 TU MUTE
C11 A GND
C13 50
C14 STEREO IN
C15 AUTO/MONO
C17 A GND
C18 AM STEREO
C19 +B 12V
C20 POS START
C21 POS DATA
C22 POS RES

MODE VCC LED DRIVER

PILOT IN PILOT OUT

ERR AMP I-DET Q-DET 1/8 DEV 1/18K

PHASE DET VCO GND

MATRIX L R LPF

AT AM MODE
( ) AM STEREO

FM MODE
( ) AM MODE
[ ] FOR E2 DEST. ONLY

P.W.B. UNIT

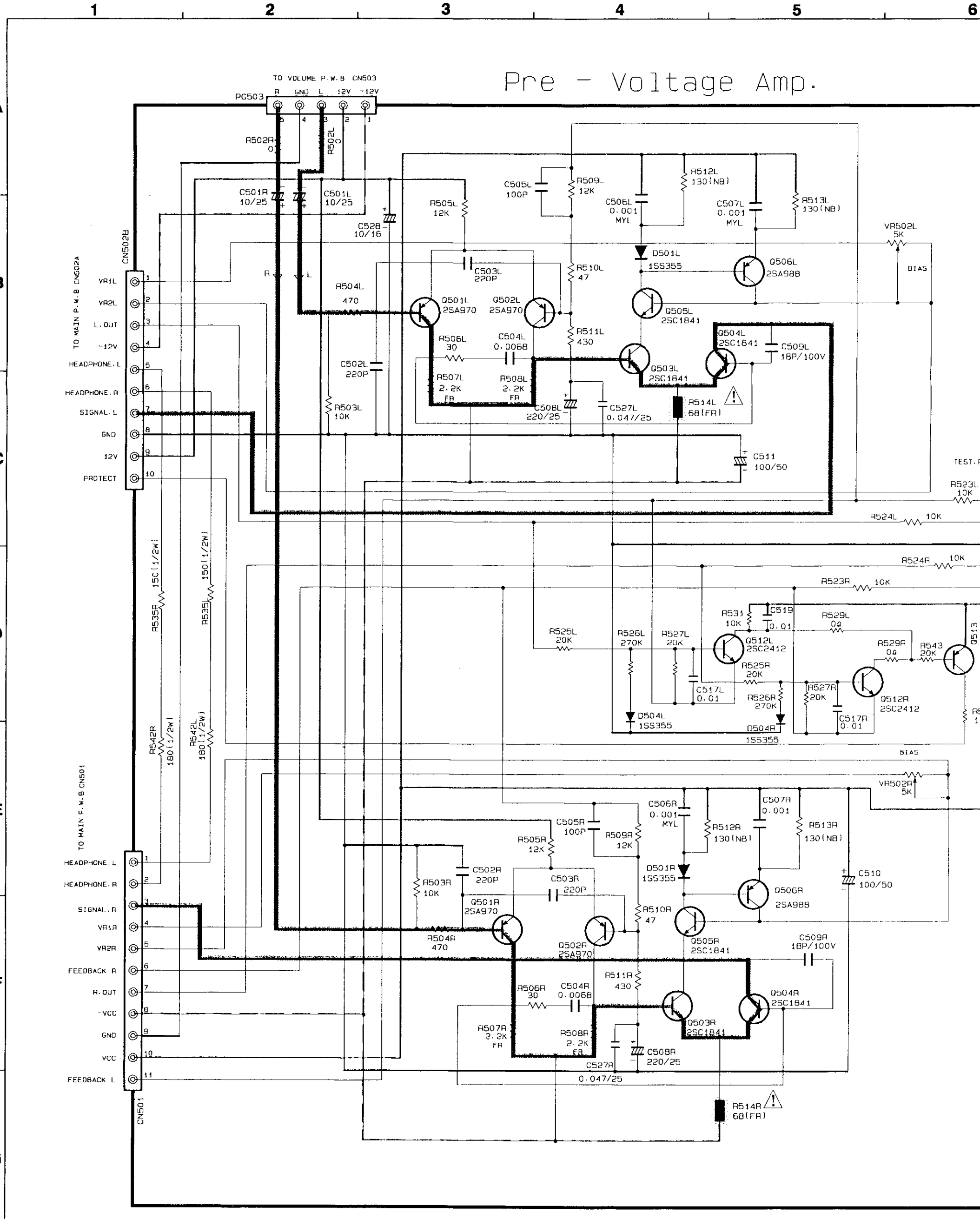
+B LINE

AM SIGNAL LINE

FM SIGNAL LINE

TUNER AMP SECTION

SCHEMATIC DIAGRAMS (2/3)



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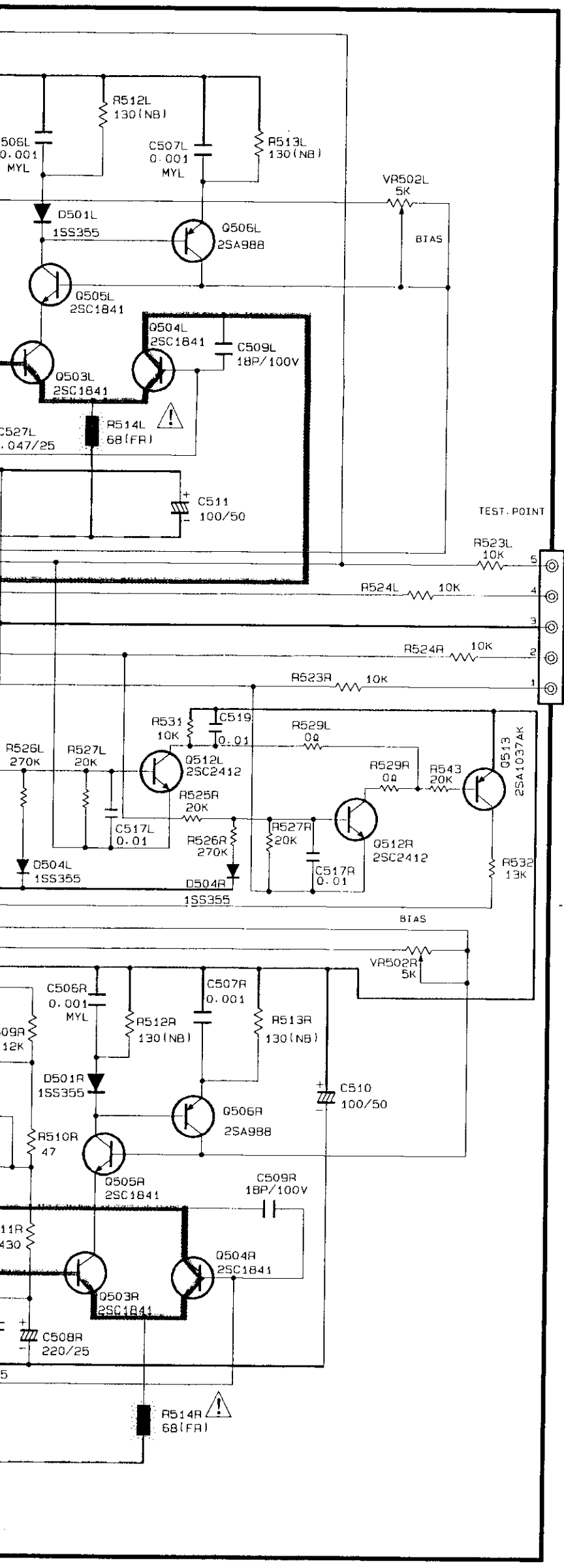
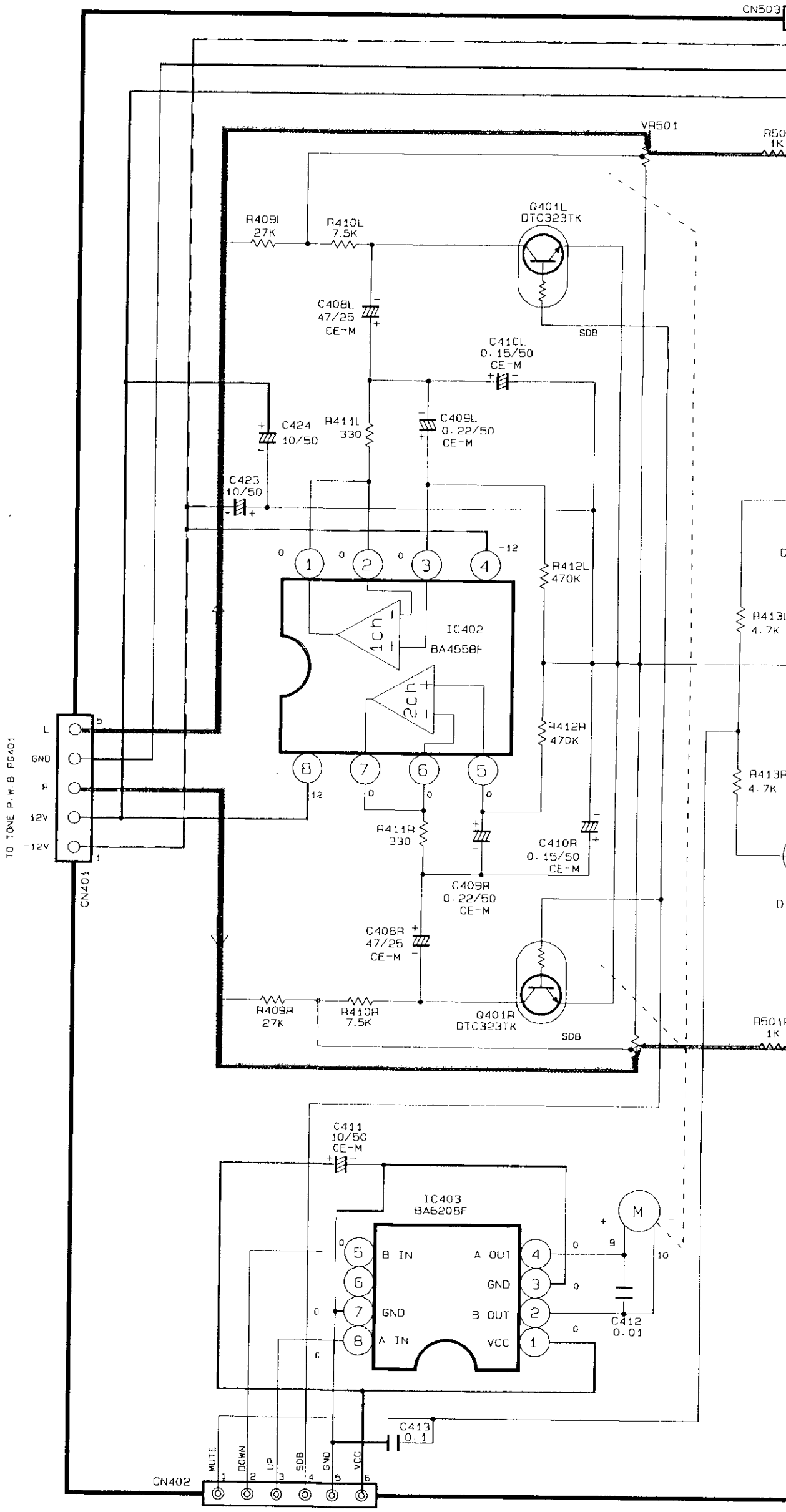
Voltage Amp.



Volume Control



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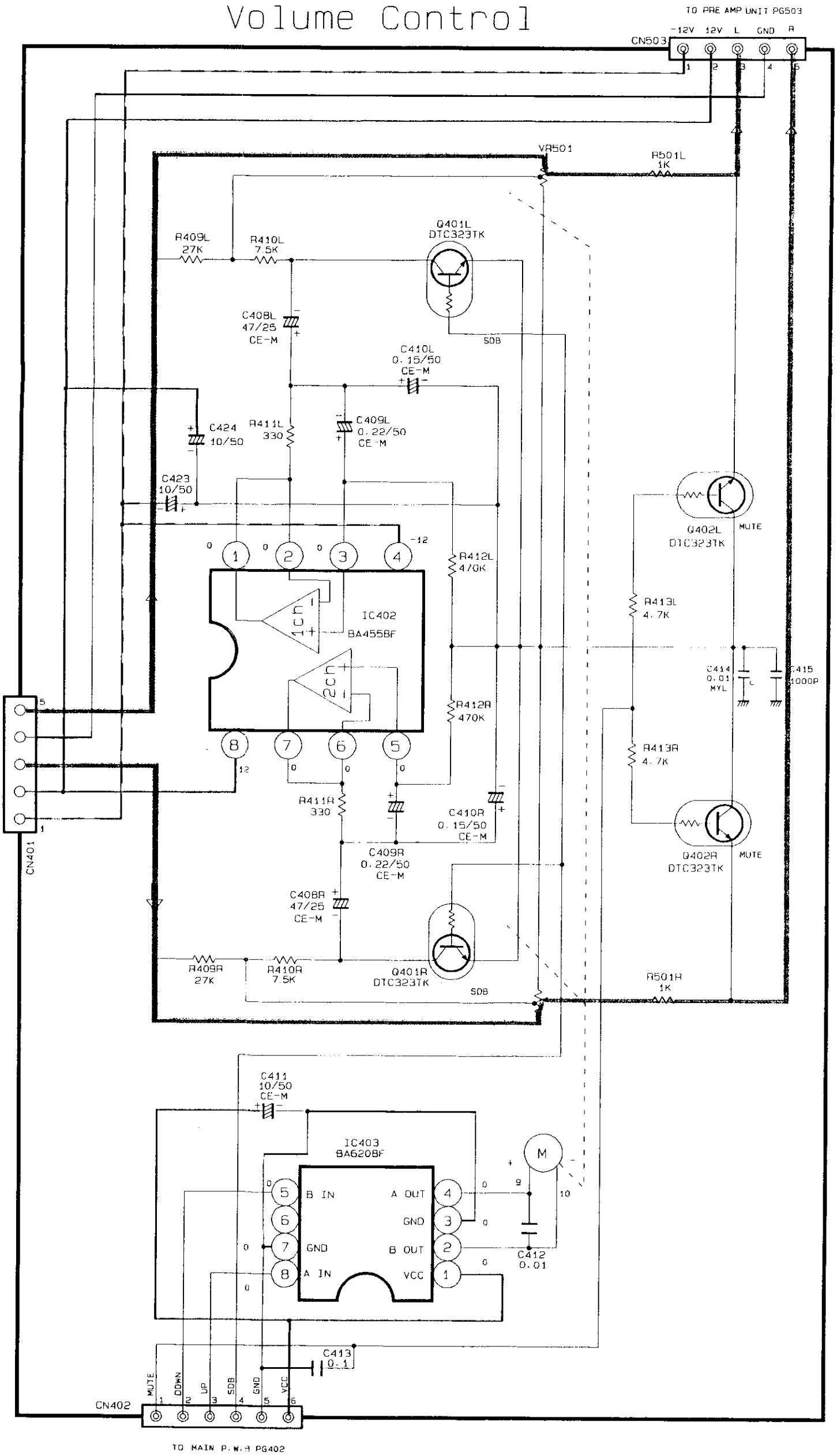
is less than 460 kohms, the unit is detective.

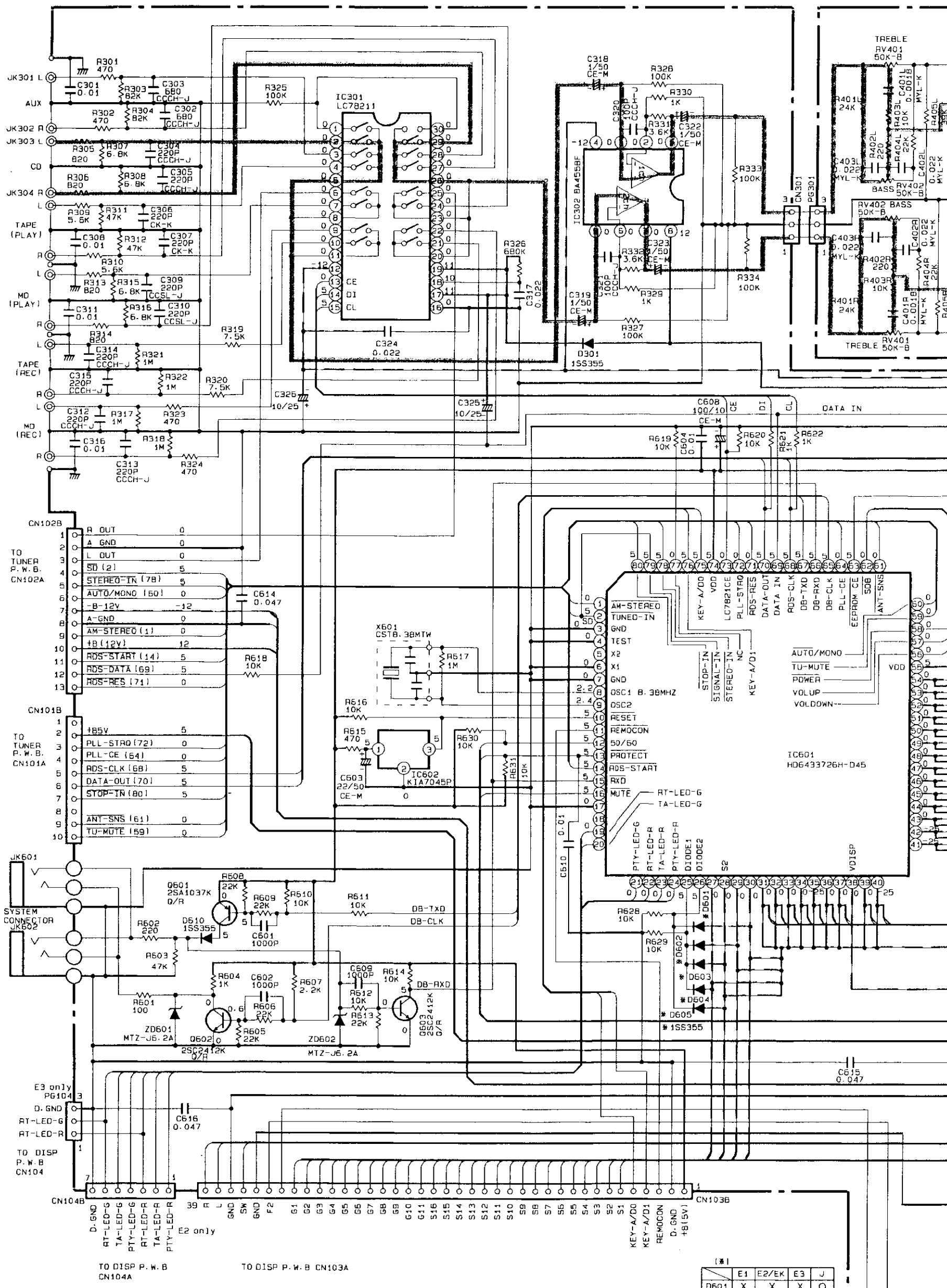
unit to the customer until the problem is located and

Volume Control



SCHEMATIC DIAGRAMS (3/3)

1 2 3 4 5



(*)

	E1	E2/EK	E3	J
D601	X	X	X	O
D602	O	X	O	O
D603	O	O	X	X
D604	X	X	X	O
D605	X	O	O	X
D011	O	O	X	X
D012	O	O	X	X

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5 6 7 8 9 10

Tone Control

TREBLE RV401 50K-B
BASS RV402 50K-B
BALANCE RV403 100K-5B
IC401 BA455BF
TREBLE RV401 50K-B
RV402 BASS 50K-B

TO PRE AMP UNIT CN502B
TO PRE AMP UNIT CN501
TO VOLUME UNIT CN401
TO VOLUME UNIT CN402

CN502A
CN501A
CN301
PG301
PG401
PG402

Q508L 2SD667A(C)
Q509L 2SC4278
Q510L 2SB647A
Q511L 2SA1633
Q507L 2SC1815
Q508R 2SD667A(C)
Q509R 2SC4278
Q510R 2SB647A
Q511R 2SA1633
Q507R 2SC1815

D502L 1S2471
D503L 1S2471
D502R 1S247
D503R 1S247

IC601
HD6433726H-045

IC603
BA9040F

IC001
BA12ST

IC002
K1A7805

Q604 DTA144EK
Q605 DTC144EK
Q606 DTA114
Q521R DTC143EK
Q521L DTC143EK
Q515 2SC2412K
Q516 2SA1037K
Q517 DTC144EK
Q002 2SC2412K (O/B)
Q003 2SB647
Q004 KTA1267
Q001 2SB647

D609 1SS355
D510 1SS355
D509 1SS356
D605 1SS355
D001 S4VB20
D002 S1B
D008 S1B
D003 1N4002
D004 1N4002
D005 IN4531
D006 IN4531
ZD002 MTZ-J5.6A
ZD001 MTZ-J27A
ZD003 MTZ-J12C
D011 RB160L-40
D009 RB160L-40
D012 RB160L-40
D010 RB160L-40

PR003 ICP-N5
PR002 ICP-N6
PR001 ICP-N5
PT001

F002 T800mA 2.5A 125V
2A 125V

DATA IN
DATA-OUT
MUTE
SW
VOLUP
VOLDOWN
POWER
AUTO/MONO
TU-MUTE
VDD
5V
DBS
VOL. UP
VOL. DOWN
MUTE
+B (12V)
A-GND

AM-STEREO
TUNED-IN
GND
TEST
X2
X1
GND
OSC1 8.38MHZ
OSC2
RESET
REMOCON
50/60
PROTECT
RDS-START
RXD
MUTE
RT-LED-G
TA-LED-G
PTY-LED-G
RT-LED-R
TA-LED-R
PTY-LED-R
DIODE1
DIODE2
S2
VDISP
KEY-A/D0
VDD
LC7821CE
PLL-STRB
RDS-RES
DATA-OUT
DATA IN
RDS-CLK
DB-TXD
DB-RXD
DB-CLK
PLL-CE
EEPROM CE
SDB
ANT-SNS
STOP-IN
SIGNAL-IN
STEREO-IN
NC
KEY-A/D1

CN103B
KEY-A/D0
KEY-A/D1
REMOCON
D.GND
+B(5V)
S2
S1

(*)	E1	E2/EK	E3	J
D601	X	X	X	O
D602	O	X	O	O
D603	O	O	X	X
D604	X	X	O	O
D605	X	O	O	X
D011	O	O	X	X
D012	O	O	X	X

	E1
F001	T3.15A
F002	T800mA

ristics.
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make either (1) a
heck. If the leakage
assis to either side
ective.
is located and

7 8 9 10 11

A B C D E F G H

Power Amp

	E1	E2	E3	J
F001	T3.15A	T3.15A	3A 125V	3A 125V
F002	T800mA	T800mA	2A 125V	2.5A 125V

+B LINE

-B LINE

SIGNAL LINE

DISASSEMBLY

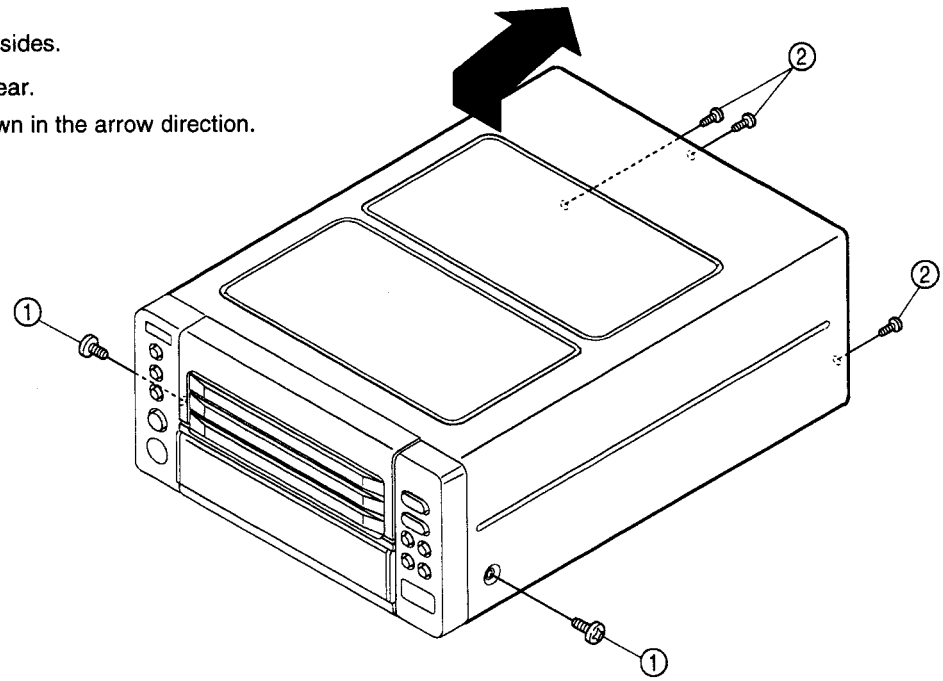
(Follow the procedure below in reverse order when reassembling)

1. Top Cover

(1) Remove 2 screws ① on both sides.

(2) Remove 3 screws ② on the rear.

(3) Detach the Top Cover as shown in the arrow direction.



2. Front Panel, FL P.W.B.

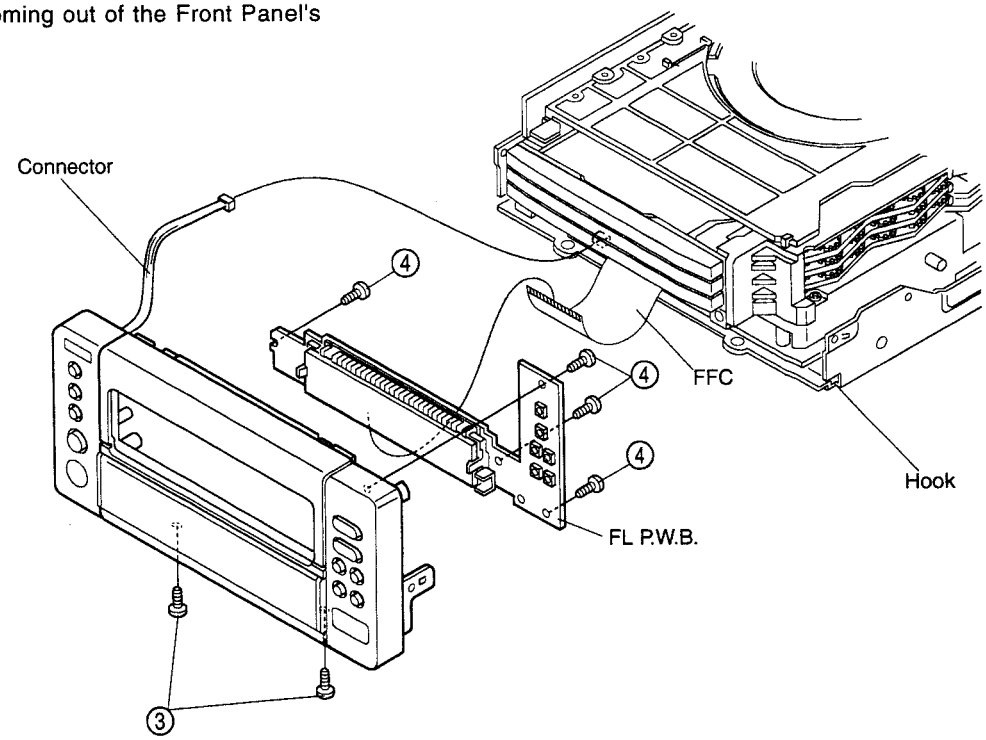
(1) Remove 2 screws ③ on the bottom edge of the Front Panel.

(2) Relese 2 hooks on both sides of the Front Panel.

(3) Detach FL P.W.B. from the Front Panel by removing 4 screws ④ .

(4) Disconnect FFC from the FL P.W.B.

(5) Unplug wire connector coming out of the Front Panel's P.W.B.



CD AUTO CHANGER SECTION

3. CD Mecha. ASS'Y

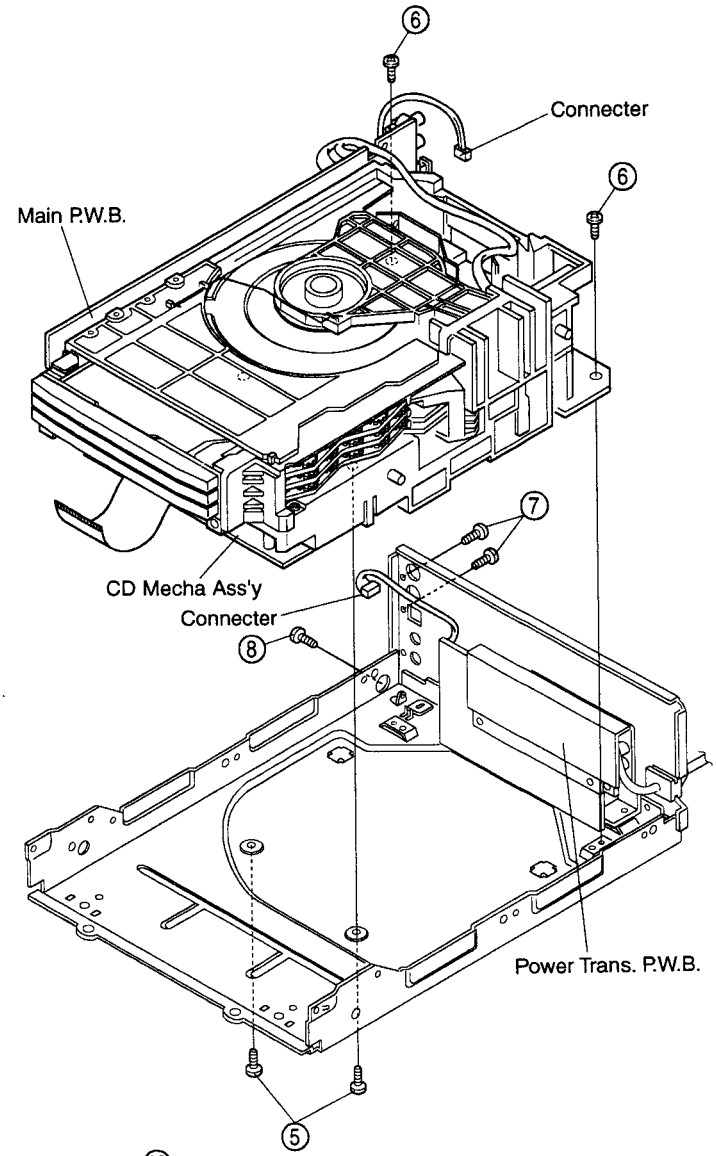
(1) Unplug wire connector coming out of Main P.W.B., and one coming out of Power Trans. P.W.B.

(2) Remove 2 screws ⑤ on the bottom of chassis.

(3) Remove 2 screws ⑥ fixing CD Mecha. Ass'y at its sides.

(4) Remove 2 screws ⑦ on the rear.

(5) Detach the CD Mecha. Ass'y after removing screw ⑧.

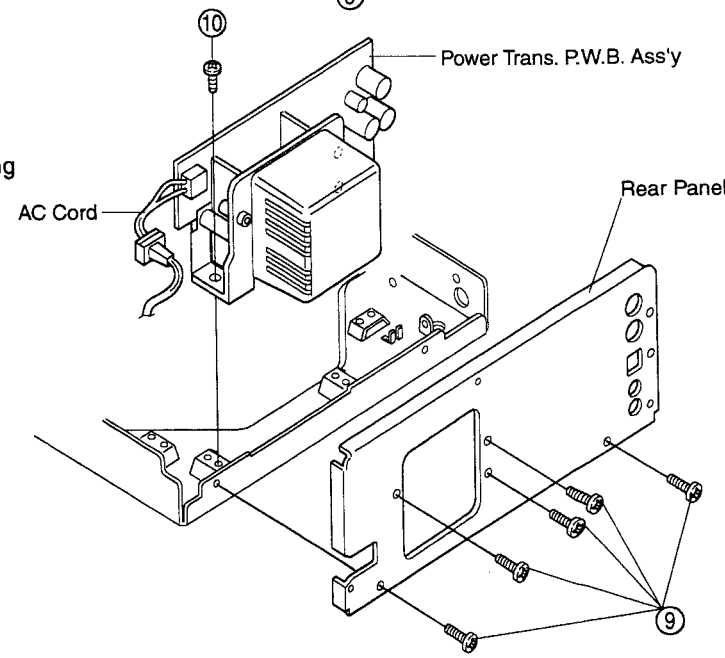


4. Power Trans. P.W.B.

(1) Remove 5 screws ⑨, on the rear.

(2) Remove AC cord on the rear.

(3) Take off the Power Trans. P.W.B. after removing screw ⑩.



Mechanism Section

(Follow the procedure below in reverse order when reassembling)

1. Traverse Mecha. Ass'y

(1) Take off Top Board by removing 2 screws ① . (Fig. A)
(2) Pull up Tray Change Shaft, and remove Top, Middle and Bottom Joint Levers. (Fig. B)
(3) Lower the Traverse Mecha. by turning Main Cam or Cam Gear to the arrow direction (counterclockwise) to disengage chucking of Disc Tray, and put it in Guide Tray. (Fig. A)
(4) Pull out the Tray part with pressing the front of Change Lever as shown with the arrow A ~ C in turn from the top. (Fig. A)
(5) Turn the Main Cam or Cam Gear until it stops turning as shown in the arrow (clockwise). (Fig. B)
(6) Raise Stabilizer Holder with pressing its side hook and release the hook. (Fig. C)
(7) Turn the Main Cam or Cam Gear again to the arrow direction (clockwise), and align recesses of the Main Cam with projections of Mecha. Holder. (Fig. B, D)
(8) Pull up the Stabilizer Holder to take it off. (Fig. C)
(9) Remove screw ② to take off Mecha. Holder Guide. (Fig. C)
(10) Remove 2 screws ③ to take off Mecha. Holder Angle. (Fig. D)
(11) Pull the Traverse Mecha. Ass'y apart after checking that the projections of the Mecha. Holder correspond with the recesses of the Main Cam. (Fig. D)

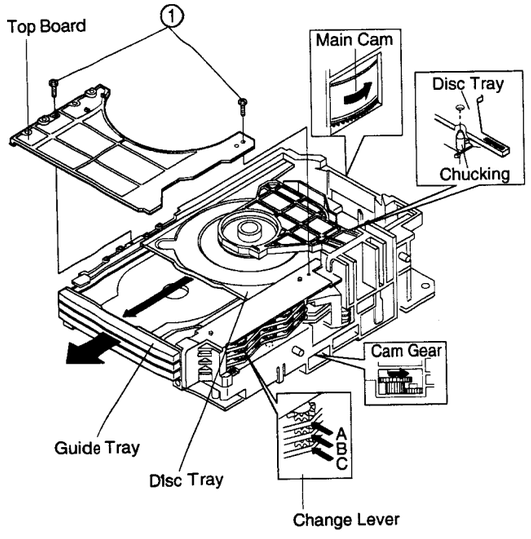


Fig. A

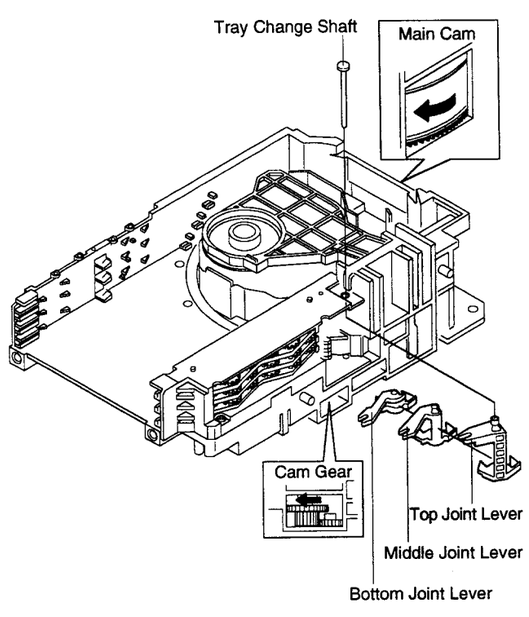


Fig. B

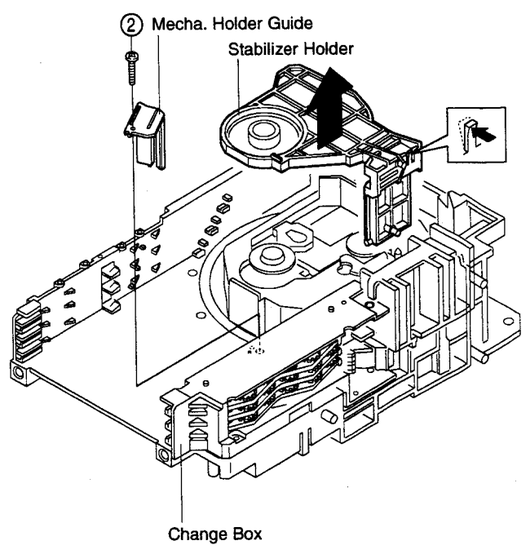


Fig. C

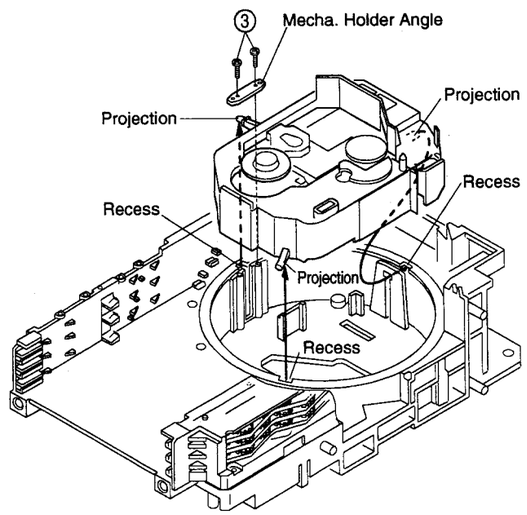
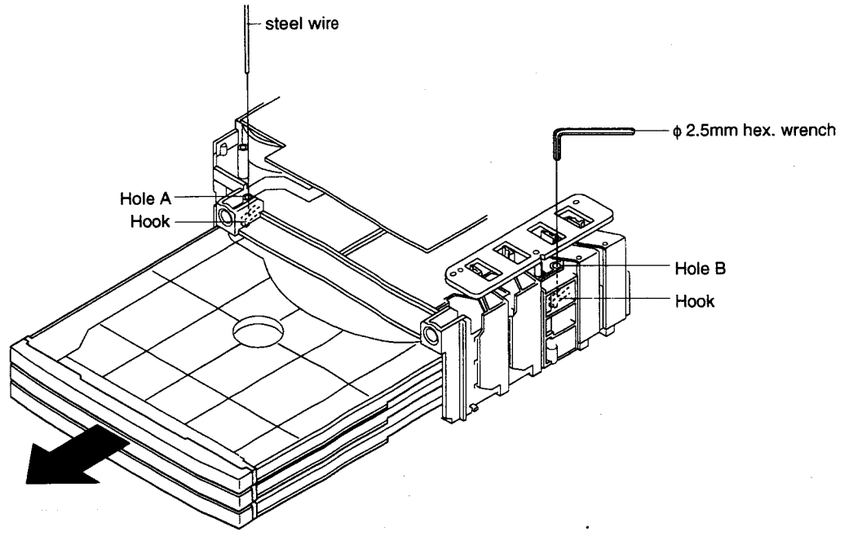


Fig. D

2. Tray 1 ~ 3

(1) Turn the CD Mecha. over.
(2) Insert a steel wire or eyeleteer into the hole A, and ϕ2.5mm hex. wrench into the hole B through P.W.B. gap to release both hooks at once, then pull the Tray 3 apart as shown in fig.
* Be careful as the hooks may be broken if pushed hard.
* As to releasing the hole B hook for the Tray 1 and 2, finger pushing through side openings is possible.



CD AUTO CHANGER SECTION

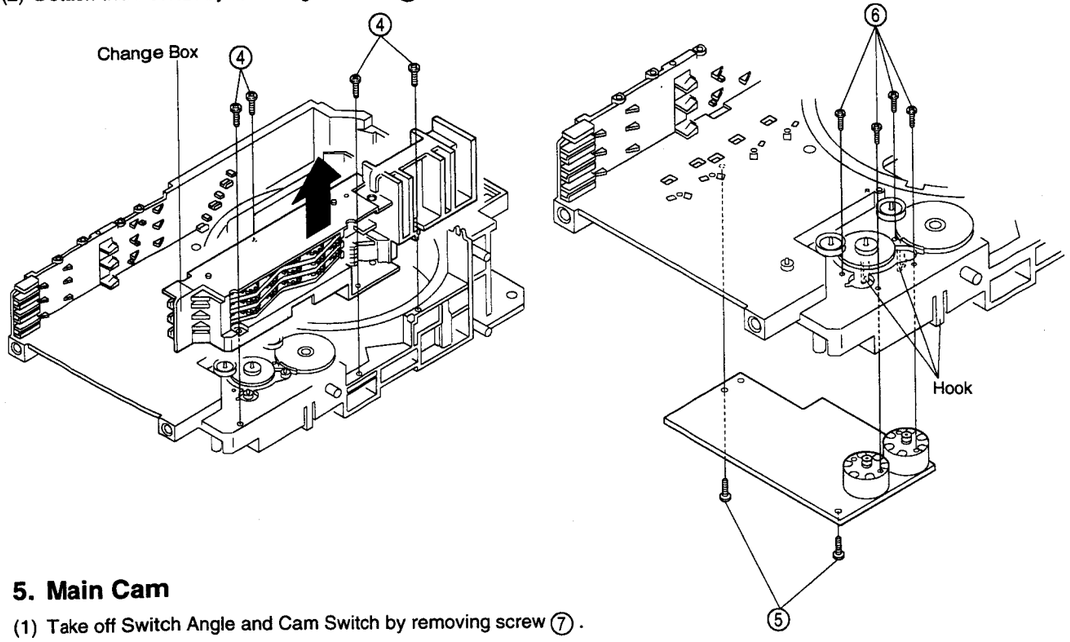
3. Change Box

Remove 4 screws ④ and pull up the Change Box.

4. Motor P.W.B.

(1) Remove 2 screws ⑤ from the P.W.B.

(2) Detach the P.W.B. by removing 4 screws ⑥ and 3 hooks.

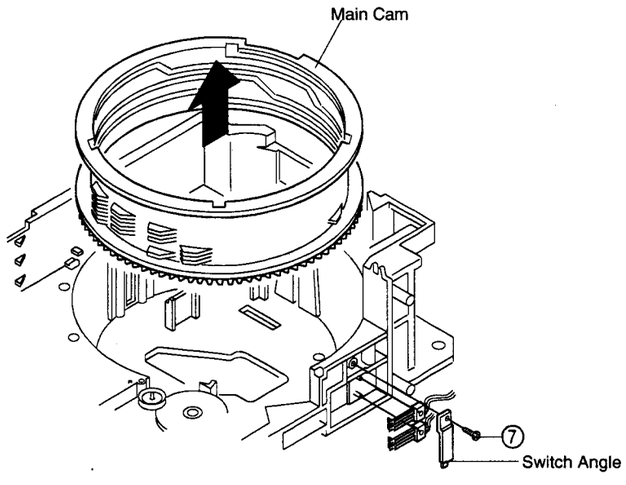


5. Main Cam

(1) Take off Switch Angle and Cam Switch by removing screw ⑦ .

(2) Pull the Main Cam apart in the arrow direction.

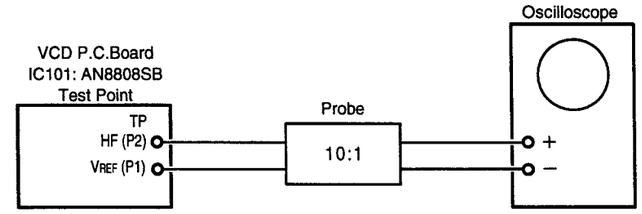
* Cord colors of the Switch Angle are red, brown, orange, green, yellow and blue from the top.

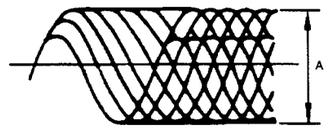
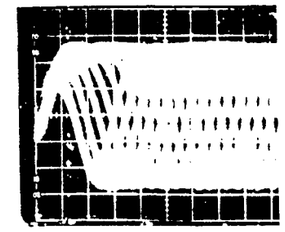


CD WAVEFORM CONFIRMATION

1. HF level Confirming

Connection

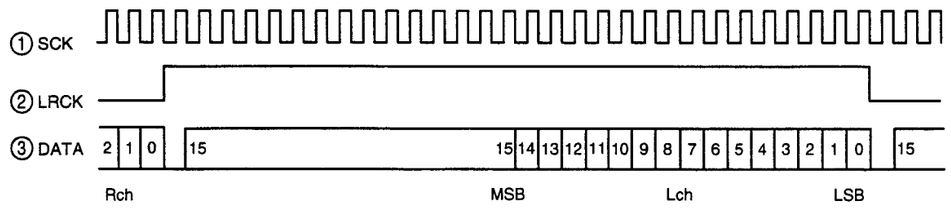


Oscilloscope		Check	Step
V	H	(Oscilloscope)	1. Push ▶ button.
50mV/div or 20mV/div	0.2µs/div or 0.5µs/div	 A=0.3~0.7V	2. Check HF level of oscilloscope.
• Set input mode to ALTERNATE or CHOPPER.			3. Confirm that the waveform is in good shape. (◇eye pattern in center must be discriminated clearly.)

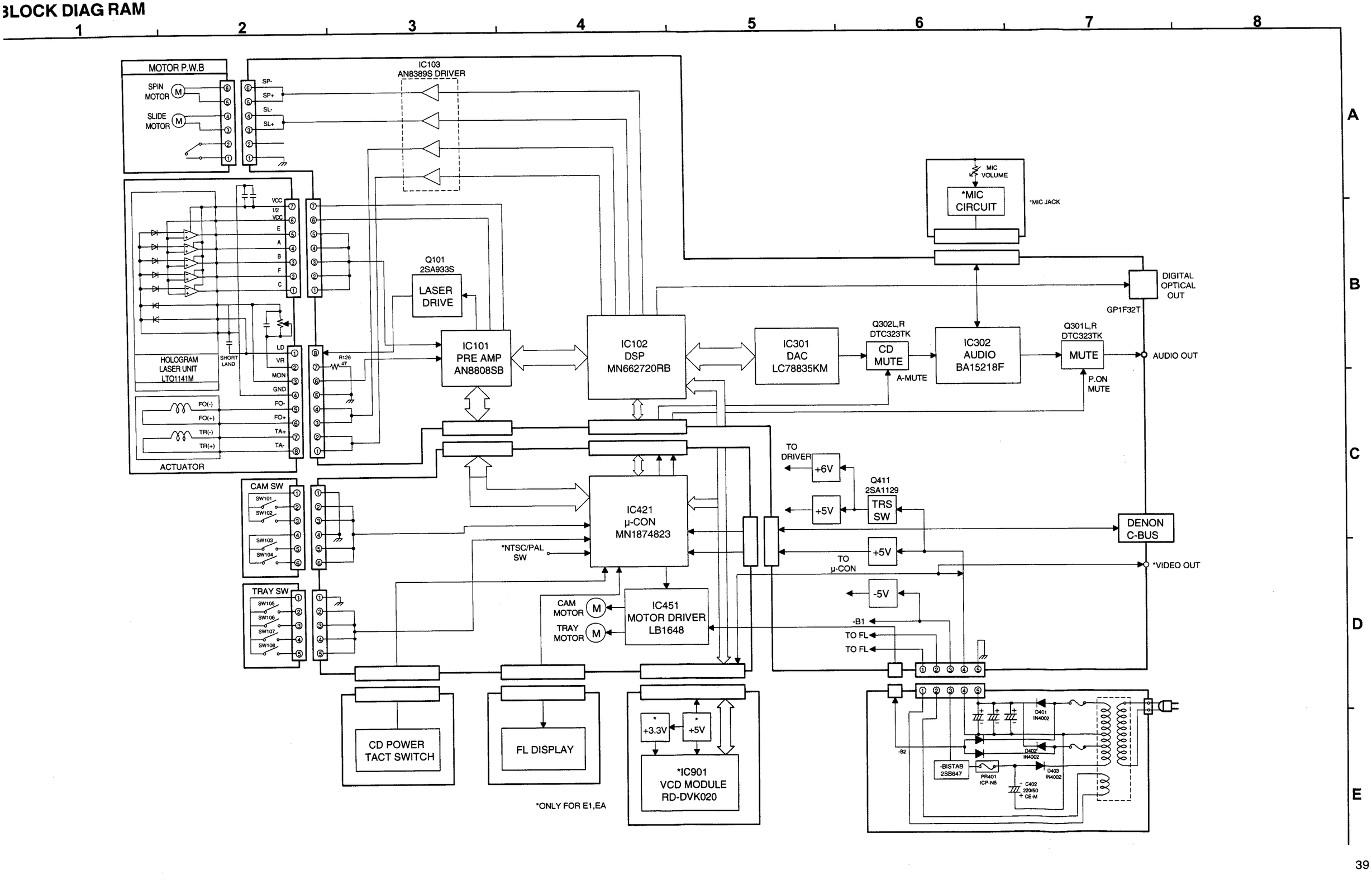
2. Servo IC Output Waveform

(IC102: MN662720RB Pin ① ~ ③)

Rch when LRCK = "L", Lch when LRCK = "H"



BLOCK DIAG RAM

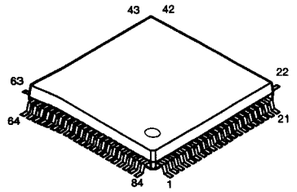


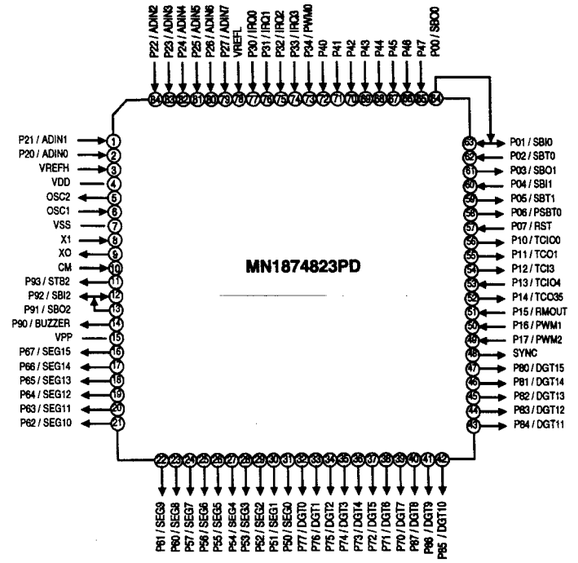
CD AUTO CHANGER SECTION

SEMICONDUCTORS

● μCOM

MN1874823PD (IC421)

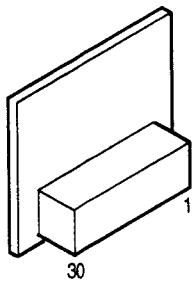


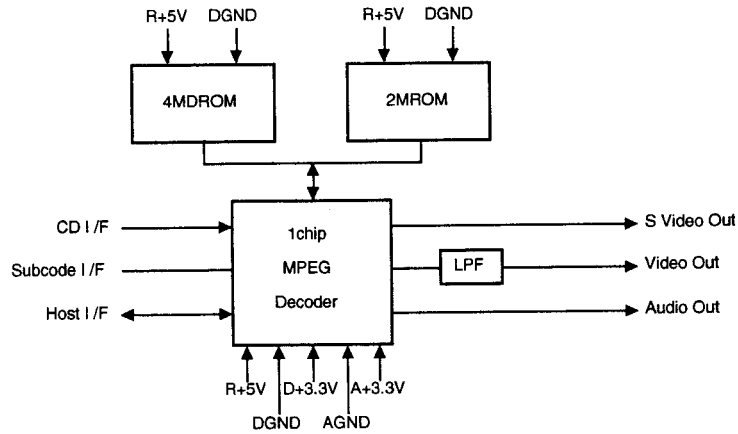


MN1874823PD Terminal Function

Pin No.	Symbol	Port Name	I/O	INI	ACT	Function
1	KEY1	P21/ADIN1	I	–	H	Key scan input 1
2	KEY2	P20/ADIN0	I	–	H	Key scan input 0
3	VREFH	VREFH	I	V_{DD}	V_{DD}	Ref.V for analog input (High)
4	+5V	V_{DD}	–	5V	5V	Power
5	4.32MHz	OSC2	O	–	–	μCOM system clock out
6	4.32MHz	OSC1	I	–	–	μCOM system clock in
7	GND	Vss	–	GND	GND	GND
8	X1	X1	I	–	–	μCOM system clock in
9	X0	X0	O	–	–	μCOM system clock out
10	CM	CM	I	GND	GND	Chip mode select input
11	—	P93/SBT2	O	H	L/H	Remote control signal in.
12	—	P92/SBI2	I	H	L	Pull up
13	—	P91/SBO2	O	H	L	NC
14	—	P90/BUZZE	O	H	L	NC
15	V_{PP}	V_{PP}	–	–	–	V_{PP}
16	Seg 15	P67/Seg15	O	L	H	FL segment out 15
17	Seg 14	P66/Seg14	O	L	H	FL segment out 14
18	Seg 13	P65/Seg13	O	L	H	FL segment out 13
19	Seg 12	P64/Seg12	O	L	H	FL segment out 12
20	Seg 11	P63/Seg11	O	L	H	FL segment out 11
21	Seg 10	P62/Seg10	O	L	H	FL segment out 10
22	Seg 9	P61/Seg9	O	L	H	FL segment out 9
23	Seg 8	P60/Seg8	O	L	H	FL segment out 8
24	Seg 7	P57/Seg7	O	L	H	FL segment out 7
25	Seg 6	P56/Seg6	O	L	H	FL segment out 6
26	Seg 5	P55/Seg5	O	L	H	FL segment out 5
27	Seg 4	P54/Seg4	O	L	H	FL segment out 4
28	Seg 3	P53/Seg3	O	L	H	FL segment out 3
29	Seg 2	P52/Seg2	O	L	H	FL segment out 2
30	Seg 1	P51/Seg1	O	L	H	FL segment out 1
31	Seg 0	P50/Seg 0	O	L	H	FL segment out 0
32	DGT 0 / KSCAN 7	P77/DGT 0	O	L	H	FL grid output 0, Key scan output 7
33	DGT 1 / KSCAN 6	P76/DGT 1	O	L	H	FL grid output 1, Key scan output 6
34	DGT 2 / KSCAN 5	P75/DGT 2	O	L	H	FL grid output 2, Key scan output 5
35	DGT 3 / KSCAN 4	P74/DGT 3	O	L	H	FL grid output 3, Key scan output 4
36	DGT 4 / KSCAN 3	P73/DGT 4	O	L	H	FL grid output 4, Key scan output 3
37	DGT 5 / KSCAN 2	P72/DGT 5	–	L	H	FL grid output 5, Key scan output 2
38	DGT 6 / KSCAN 1	P71/DGT 6	O	L	H	FL grid output 6, Key scan output 1
39	—	P70/DGT 7	O	L		NC
40	TRYM –	P87/DGT 8	O			CD changer mecha tray monitor output –
41	TRYM +	P86/DGT 9	O			CD changer mecha tray monitor output +
42	CAMM –	P85/DGT 10	O			CD changer mecha tray monitor output –
43	CAMM +	P84/DGT 11	O			CD changer mecha cam motor output +
44	CDPWR	P83/DGT 12	O		L	CD power control output
45	DRVMT	P82/DGT 13	O	H	L	Driver mute output
46	DMUTE	P81/DGT 14	O	L	H	CD DSP mute output
47	AMUTE	P80/DGT 15	O			Audio DSP mute output
48	SYNC	SYNC	O	–	–	NC
49	TLOCK	P17/PWM 2	O	L	L	CD DSP TLOCK signal input
50	FLOCK	P16/PWM 1	O	L	L	CD DSP FLOCK signal input
51	SENSE	P15/RMOUT	I	L	H	CD-DSP SENSE sianal input
52	MCLK	P14/TCO35	O	H	L/H	CD-DSP serial transmission clock output
53	STAT	P13/TCI04	O	–	H	CD-DSP serial transmission status input
54	MDATA	P12/TCI03	O	H	H	CD-DSP serial transmission data output
55	MLD	P11/TCO1	O	H	H	CD-DSP serial transmission load output
56	SRST	P10/TCIO0	O	L	H	Servo LSI reset output
57	RST	P07/RST	I	L	H	μCOM reset input
58	—	P06/PSBT0	O	L	H	Pull down
59	SQCK	P05/SBT1	O	H	L/H	Sub code (Q code) clock output
60	SUBQ	P04/SBI1	I	–	H	Sub code (Q code) data input
61	—	P03/SBO1	I	Hi-Z		NC
62	BUSCLK	P02/SBT0	I	–	L/H	DENON BUS transmission clock input
63	BUSIN	P01/SBI0	I	–		DENON BUS transmission data input
64	DATA	P00/SBO0	O			DENON BUS transmission data output
65	TRYSW4	P47	I	–		CD changer mecha tray SW input 4
66	TRYSW3	P46	I	–		CD changer mecha tray SW input 3
67	TRYSW2	P45	I	–		CD changer mecha tray SW input 2
68	TRYSW1	P44	I	–		CD changer mecha tray SW input 1
69	CAMSW4	P43	I	–		CD changer mecha cam SW input 4
70	CAMSW3	P42	I	–		CD changer mecha cam SW input 3
71	CAMSW2	P41	I	–		CD changer mecha cam SW input 2
72	CAMSW1	P40	I	–		CD changer mecha cam SW input 1
73	—	P34/PWM0	I	H	L	Pull up
74	PWRSW	P33/IRQ3	I			Power on input
75	—	P32/IRQ2	I	H	L	Pull up
76	—	P31/IRQ1	I	–	L/H	—
77	BUSINT	P30/IRQ0	I	–	L/H	DENON BUS communicate intervention input
78	VREFL	VREFL	I	GND	GND	Ref V for analog input (Low)
79	CD/VCD	P27/ADIN7	I	L	–	CD(L) and VCD switching input
80	LMTSW	P26/ADIN6	I	–	L	Pick-up inner circle position detect input
81	KEY5	P25/ADIN5	I	–	H	Key scan input 5
82	KEY4	P24/ADIN4	I	–	H	Key scan input 4
83	KEY3	P23/ADIN3	I	–	H	Key scan input 3
84	KEY2	P22/ADIN2	I	–	H	Key scan input 2

RD-DVK023-K (IC901)





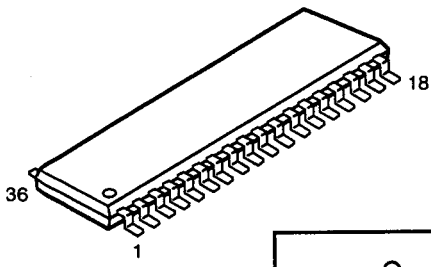
●RD-DVK023-K Terminal Function

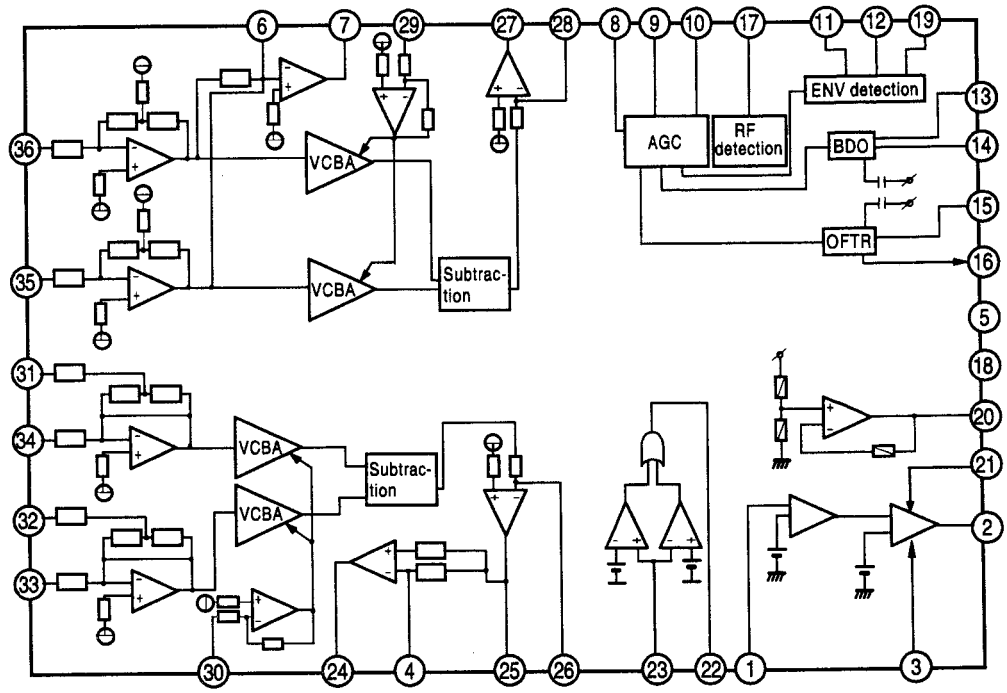
Pin No.	Terminal	I/O	Function
1	A+3.3V		+3.3V power supply for analog video
2	CVOUT	O	Composite video output
3	COUT	O	C video output (s)
4	YOUT	O	Y video output (s)
5	VGND		Analog video ground
6	VGND		Analog video ground
7	R+5V		Digital +5V power supply
8	D+3.3V		Digital +3.3V power supply
9	D+3.3V		Digital +3.3V power supply
10	DGND		Digital ground
11	DGND		Digital ground
12	XCK	I	Audio external frequency clock
13	EMPH	O	Audio emphasis output
14	DILRCK	O	Audio left right clock
15	HRDY	O	Host data ready
16	DISCK	O	Audio bit clock
17	DIDATA	O	Audio data serial bus
18	HINT	O	Host interrupt
19	SBCK	O	Subcode clock for CD-G
20	VRST	I	Hardware reset
21	HCK	I	Host clock
22	HDIO	I/O	Host serial data bus
23	CDSCK	I	CD bit clock
24	CDDATA	I	CD data
25	CDLRCK	I	CD left right clock
26	IPFLG	I	CD data error flag (C2P0)
27	HSEL	I	Host address/ data select
28	SUBC	I	Subcode data for CD-G
29	CLDCK	I	Subcode frame sync for CD-G
30	BLKCK	I	Subcode block for CD-G

CD AUTO CHANGER SECTION

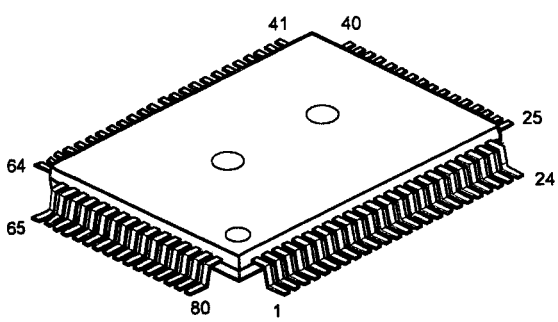
● IC's

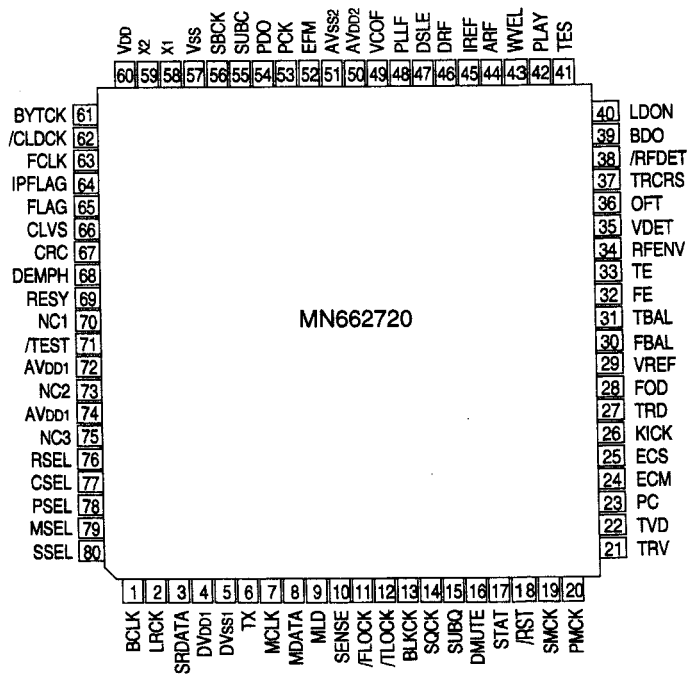
AN8808SB (IC101)



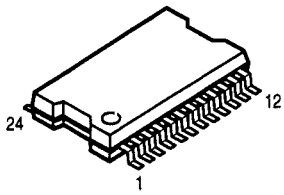


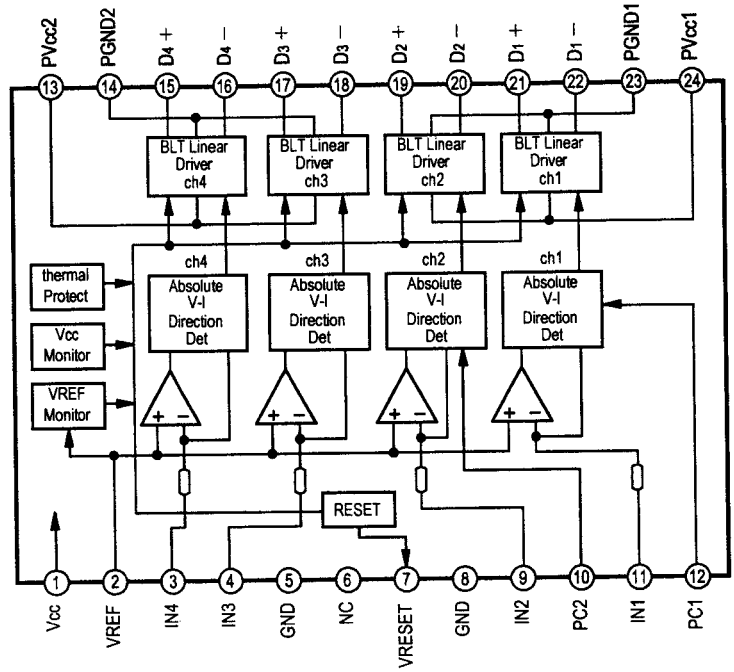
MN662720RB (IC102)



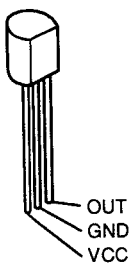


AN8389S (IC103)

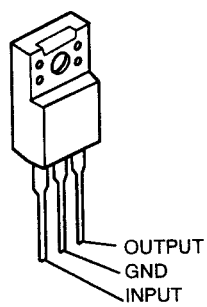




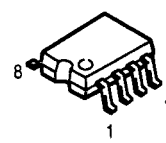
KIA7045P (IC422)

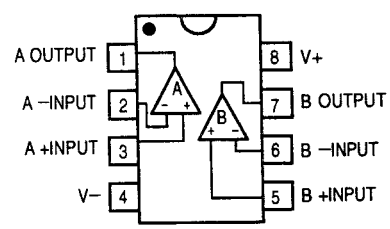


KIA7805PI (IC412, 413, 903)
KIA7806PI (IC414)

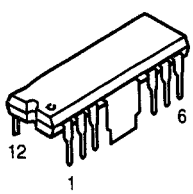


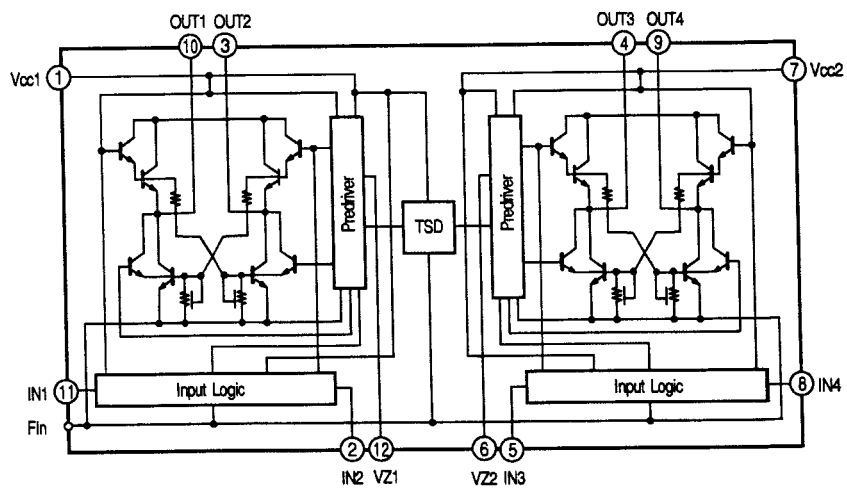
BA15218F (IC302, 902)





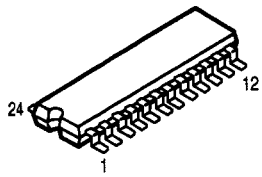
LB1648 (IC451)

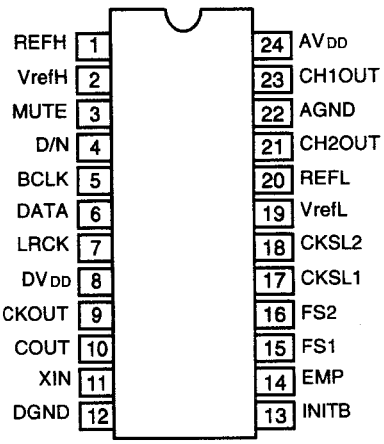


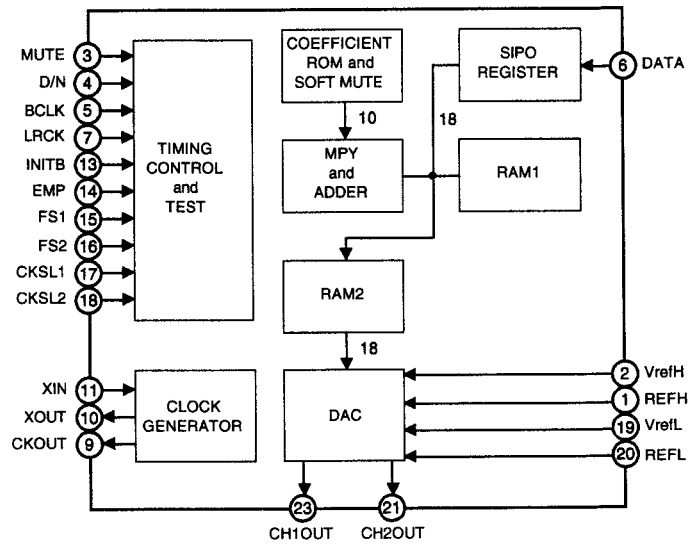


CD AUTO CHANGER SECTION

LC78835KM (IC301)

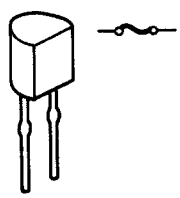






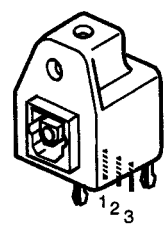
● IC PROTECTOR

ICP-N5 (PR401)

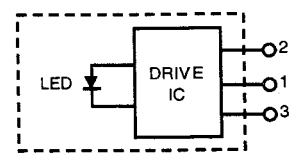


● OPT. DIGITAL OUTPUT

GP1F32T (IC201)



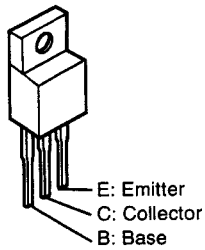
1. Vin
2. Vcc
3. GND



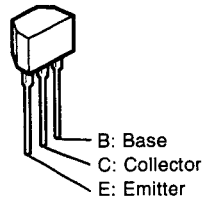
LED: Ga Al As
DRIVE IC: Silicon

● TRANSISTORS

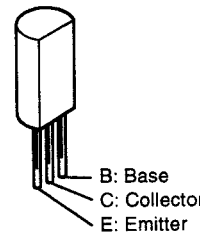
2SA1129



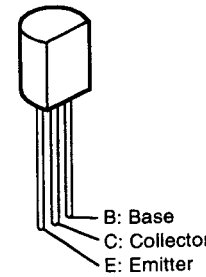
2SA933S



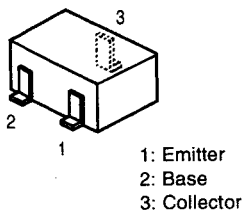
2SB647



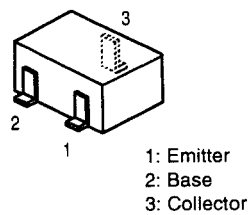
2SA844

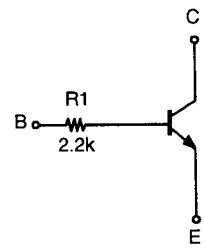


2SA1037AK
2SC2412K

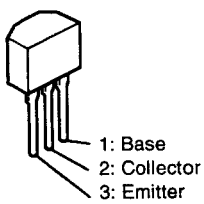


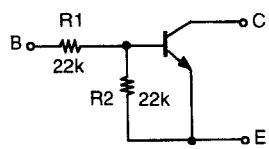
DTC323TK





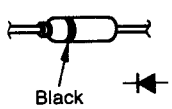
DTC124ES



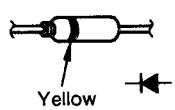


● DIODES

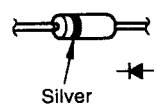
1N4531



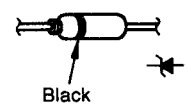
1SS133



1N4002



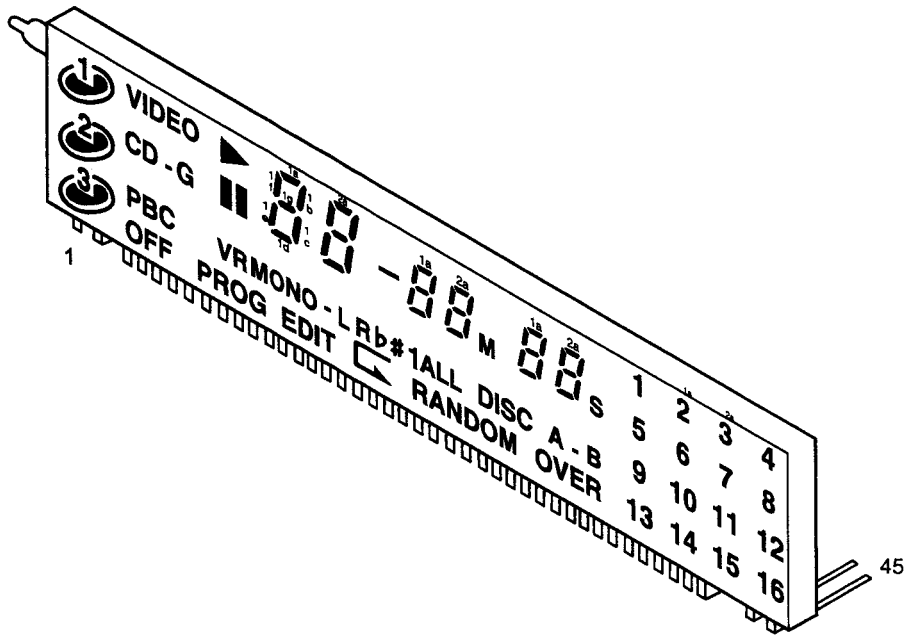
MTZJ3.9B MTZJ5.6A
MTZJ5.1B MTZJ6.2A
MTZJ5.1C MTZJ6.8A
MTZJ27A



CD AUTO CHANGER SECTION

● FL DISPLAY 6-ST-59GK (FL801)

(Part No. : 9LDD00071)



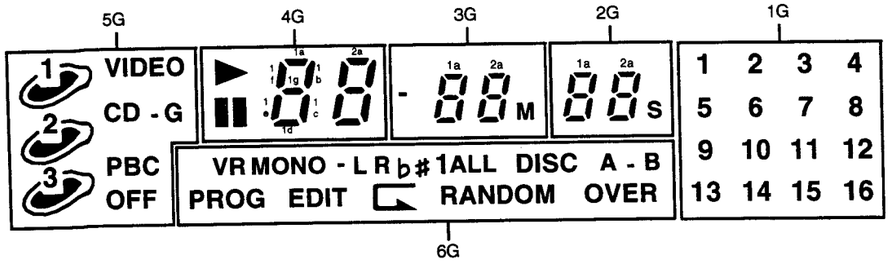
Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Connection	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	NX	NX	NX

Pin No.	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Connection	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2

NOTE 1) F1,F2 ---------- Filament
2) NP ---------- No Pin
3) NX ---------- No Extension Pin
4) DL ---------- Datum Line
5) 1G~6G ---------- Grid
6) Visible Angle (MIN) : 33° (Upper), 25° (Lower)

Grid Partition



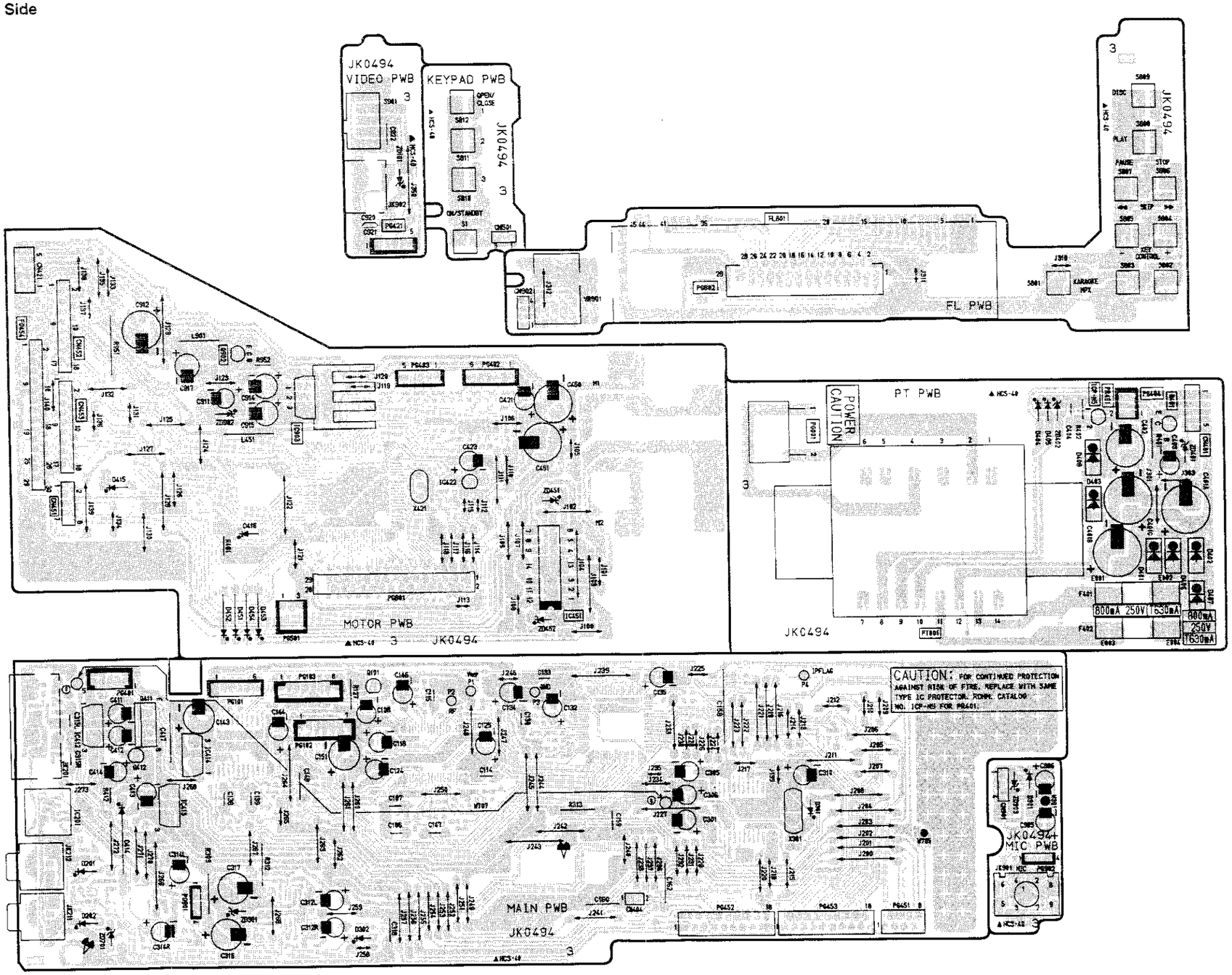
Anode Connection

	6G	5G	4G	3G	2G	1G
P1	VR	1	1a	1a	1a	1
P2	MONO -	[1]	1b	1b	1b	2
P3	L	[1]	1c	1c	1c	3
P4	R	2	1d	1d	1d	4
P5	1	[2]	1e	1e	1e	5
P6	ALL	[2]	1 f	1 f	1 f	6
P7	DISC	3	1g	1g	1g	7
P8	A -	[3]	2a	2a	2a	8
P9	B	[3]	2b	2b	2b	9
P10	PROG	VIDEO	2c	2c	2c	10
P11	EDIT	CD	2d	2d	2d	11
P12		-G	2e	2e	2e	12
P13	RANDOM	PBC	2 f	2 f	2 f	13
P14	OVER	OFF	2g	2g	2g	14
P15	#	–	▶	-	–	15
P16	b	–	▮▮	M	S	16

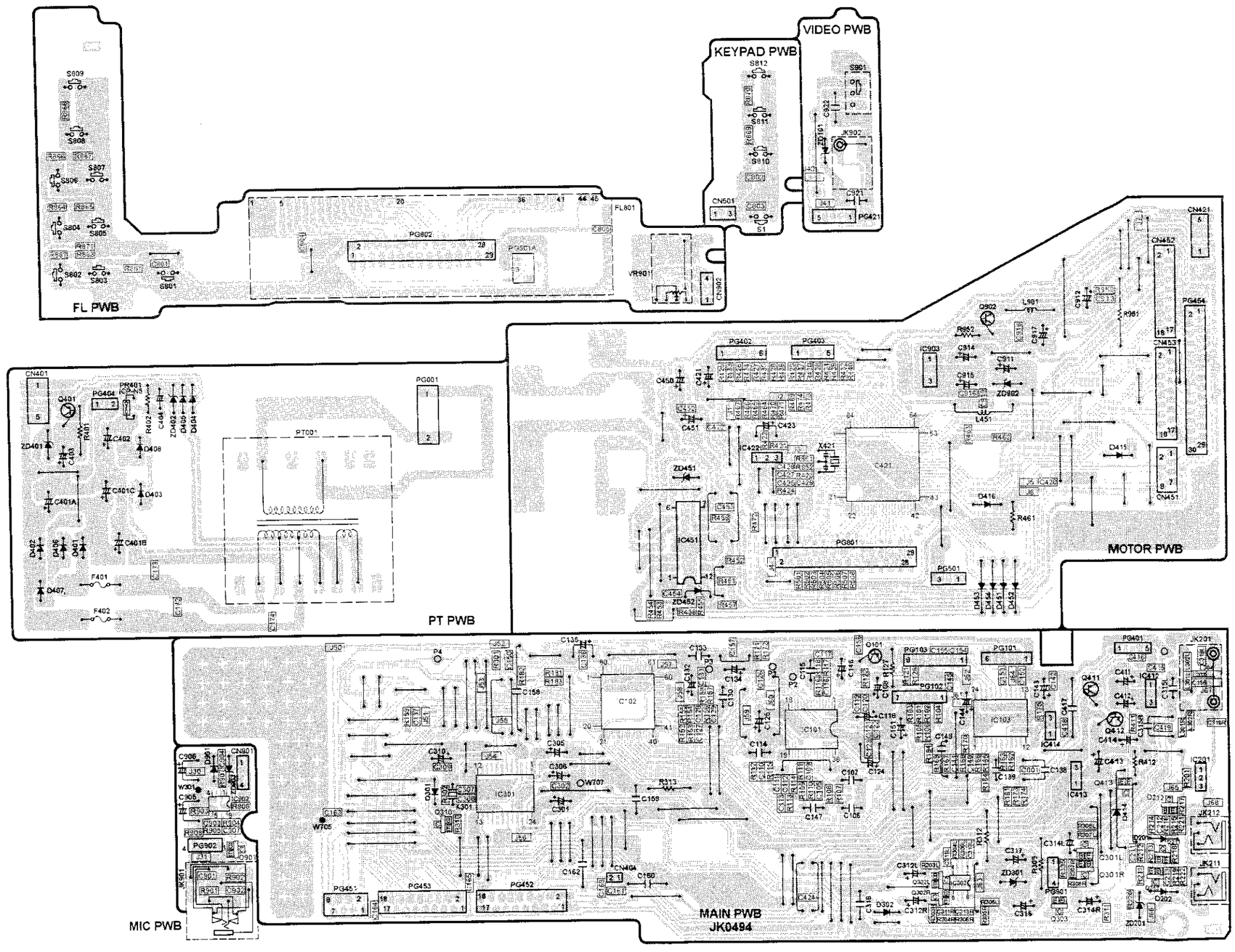
PRINTED WIRING BOARDS

VCD UNIT ASS'Y

Component Side



Pattern Side



CD AUTO CHANGER SECTION

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▓▓ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✱ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✱ Capacity (electrolyte only)

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: μF.

✱ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2) Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 2 1 ⇒ 220pF
(0 or 1) Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

CDC/VCD MAIN P.W.B. UNIT ASS'Y

※ As for "Note" in Part No., refer to ADDENDUM PARTS LIST.

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	9LC K077 21R	IC AN8808SB	
IC102	9LC K077 31	IC MN662720RB	
IC103	9LC K080 31R	IC AN8389S	
IC201	9LD T001 31	Optical digital output GP1F32T	
IC301	9LC K098 71R	IC LC78835KM	
IC302	9LC K014 51R	IC BA15218F	
IC412,413	9LC P024 11	IC KIA7805PI	
IC414	9LC P024 12	IC KIA7806PI	
IC421	9LC K077 46	IC MN1874823PD	
IC422	9LC P007 12R	IC KIA7045P	
IC451	9LC P025 41	IC LB1468	
IC901	9LC W002 11	IC RD-DVK023-K	Asia model only
IC902	9LC K014 51R	IC BA15218F	Asia model only
IC903	9LC P024 11	IC KIA7805PI	Asia model only
Q101	9L2 3182 93T	Transistor 2SA933S	
Q211	9LC A006 91R	Transistor 2SA1037AK	
Q212	9L2 3256 91R	Transistor 2SC2412K	
Q213	9LC A006 91R	Transistor 2SA1037AK	
Q301L,301R	9LC A005 81R	Transistor DTC323TK	
Q302L,302R	9LC A005 81R	Transistor DTC323TK	Asia model only
Q303,304	9LC A007 91R	Transistor DTC124ES	
Q310	9LC A007 91R	Transistor DTC124ES	
Q401	9L2 3286 25T	Transistor 2SB647C	
Q411	9L2 3243 62	Transistor 2SA1129K	
Q412	9L2 3280 83T	Transistor 2SA844(E)	
Q413	9LC A007 91R	Transistor DTC124ES	
Q901	9LC A005 81R	Transistor DTC323TK	Asia model only
Q902	9L2 3190 62	Transistor HIT5609C	Asia model only
D201,202	9L2 3989 21T	Diode 1N4531/1SS133	
D203	9L2 3989 21T	Diode 1N4531/1SS133	
D301,302	9L2 3989 21T	Diode 1N4531/1SS133	
D401~403	9L2 3980 66	Diode 1N4002	
D404,405	9L2 3989 21T	Diode 1N4531/1SS133	
D406~408	9L2 3980 66	Diode 1N4002	
D414~416	9L2 3989 21T	Diode 1N4531/1SS133	
D451~454	9L2 3989 21T	Diode 1N4531/1SS133	
D901	9L2 3989 21T	Diode 1N4531/1SS133	Asia model only
ZD101	9L2 3481 03M	Zener diode MTZJ 5.1C	5.1V, Asia model only
ZD201	9L2 3481 21M	Zener diode MTZJ 6.2A	6.2V
ZD301	9L2 3481 02M	Zener diode MTZJ 5.1B	5.1V
ZD401	9L2 3482 71M	Zener diode MTZJ 27A	27V
ZD402	9L2 3481 11M	Zener diode MTZJ 5.6A	5.6V
ZD451	9L2 3481 03M	Zener diode MTZJ 5.1C	5.1V
ZD452	9L2 3481 31M	Zener diode MTZJ 6.8A	6.8V
ZD902	9L2 3480 72M	Zener diode MTZJ 3.9B	3.9V, Asia model only
ZD903	9L2 3481 31M	Zener diode MTZJ 6.8A	6.8V, Asia model only
⚠ PR401	9L2 7262 21R	IC protector ICP-N5	
RESISTORS GROUP			
R101,102		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R103,104		Carbon chip 68 kohm 1/32W	RMC73M-1F683JR
R105,106		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R107		Carbon chip 390 kohm 1/32W	RMC73M-1F394JR
R108		Carbon chip 330 kohm 1/32W	RMC73M-1F334JR
R109		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR
R110		Carbon chip 18 kohm 1/32W	RMC73M-1F183JR
R111		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R112		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR
R114		Carbon chip 39 kohm 1/32W	RMC73M-1F393JR
R115		Carbon chip 220 kohm 1/32W	RMC73M-1F224JR
R116		Carbon chip 1.8 kohm 1/32W	RMC73M-1F182JR
R117		Carbon chip 1.5 kohm 1/32W	RMC73M-1F152JR
R118		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R121		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R122		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R126		Carbon chip 47 ohm 1/32W	RMC73M-1F470JR
R127	9LH 1295 37	Carbon film 18 ohm 1/4W	RD14S2E180JR
R152		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R153		Carbon chip 120 kohm 1/32W	RMC73M-1F124JR
R154		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R155		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR
R157		Carbon chip 150 ohm 1/32W	RMC73M-1F151JR
R158		Carbon chip 680 ohm 1/32W	RMC73M-1F681JR
R159		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R161,162		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R163		Carbon chip 1.8 kohm 1/32W	RMC73M-1F182JR
R164		Carbon chip 2.7 kohm 1/32W	RMC73M-1F272JR
R165		Carbon chip 220 kohm 1/32W	RMC73M-1F224JR
R166		Carbon chip 1.8 kohm 1/32W	RMC73M-1F182JR
R167		Carbon chip 68 kohm 1/32W	RMC73M-1F683JR
R168		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R169		Carbon chip 33 kohm 1/32W	RMC73M-1F333JR
R170		Carbon chip 330 kohm 1/32W	RMC73M-1F334JR
R171		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R172		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R173		Carbon chip 150 kohm 1/32W	RMC73M-1F154JR

Ref. No.	Part No.	Part Name	Remarks
R174		Carbon chip 12 kohm 1/32W	RMC73M-1F123JR
R175		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R181		**NOTE**	**NOTE**
R182		**NOTE**	**NOTE**
R183		**NOTE**	**NOTE**
R201		Carbon chip 470 ohm 1/32W	RMC73M-1F471JR
R211		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R212,213		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R214		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R215		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R216		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R217~219		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R220		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R221		Carbon chip 220 ohm 1/32W	RMC73M-1F221JR
R222		Carbon chip 100 ohm 1/32W	RMC73M-1F101JR
R301		Carbon chip 560 ohm 1/32W	RMC73M-1F561JR
R302		Carbon chip 1 Mohm 1/32W	RMC73M-1F105JR
R303L,303R		Carbon chip 680 ohm 1/32W	RMC73M-1F681JR
R304L,304R		Carbon chip 9.1 kohm 1/32W	RMC73M-1F912JR
R305L,305R		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR, Asia model only
R306L,306R		Carbon chip 12 kohm 1/32W	RMC73M-1F123JR
R307L,307R		Carbon chip 68 kohm 1/32W	RMC73M-1F683JR
R308L,308R		Carbon chip 680 ohm 1/32W	RMC73M-1F681JR
R309	9LH 1132 21	Carbon film 22 ohm 1/2W	RD14S2H220JB
R311		**NOTE**	**NOTE**
R312	9LH 1133 62	Carbon film 2.2 kohm 1/2W	RD14S2H222JB
R313	9LH 1132 21	Carbon film 22 ohm 1/2W	RD14S2H220JB
R314		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R315		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R335		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR
R401	9LH 1133 71	Carbon film 3.3 kohm 1/20W	RD14S1H332JB
R402	9L0 7000 54M	Carbon film 10 kohm 1/16W	RD14S1J103JB
R411		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R412	9L0 7000 45M	Carbon film 2.2 kohm 1/16W	RD14S1J222JB
R421		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR
R422		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R423		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R424~432		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR
R433~440		Carbon chip 22 kohm 1/32W	RMC73M-1F223JR
R450	9L0 7000 44M	Carbon film 1.8 kohm 1/16W	RD14S1J182JB
R451~458		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R461	9L0 7000 54M	Carbon film 10 kohm 1/16W	RD14S1J103JB
R462~467		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R469		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R470		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR, Asia model only
R471~474		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR
R851,852		Carbon chip 15 kohm 1/32W	RMC73M-1F153JR

Ref. No.	Part No.	Part Name	Remarks
R861		Carbon chip 1.5 kohm 1/32W	RMC73M-1F152JR
R862		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR
R863		Carbon chip 2.7 kohm 1/32W	RMC73M-1F272JR
R864		Carbon chip 5.6 kohm 1/32W	RMC73M-1F562JR
R865		Carbon chip 8.2 kohm 1/32W	RMC73M-1F822JR
R866		Carbon chip 15 kohm 1/32W	RMC73M-1F153JR
R867		Carbon chip 33 kohm 1/32W	RMC73M-1F333JR
R868		Carbon chip 82 kohm 1/32W	RMC73M-1F823JR
R869		Carbon chip 1.5 kohm 1/32W	RMC73M-1F152JR
R870		Carbon chip 2.2 kohm 1/32W	RMC73M-1F222JR
R871		Carbon chip 3.9 kohm 1/32W	RMC73M-1F392JR
R901		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR, Asia model only
R902		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR, Asia model only
R903		Carbon chip 1 kohm 1/32W	RMC73M-1F102JR, Asia model only
R904		Carbon chip 47 kohm 1/32W	RMC73M-1F473JR, Asia model only
R905		Carbon chip 680 ohm 1/32W	RMC73M-1F681JR, Asia model only
R906		Carbon chip 4.7 kohm 1/32W	RMC73M-1F472JR, Asia model only
R907		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR, Asia model only
R908		Carbon chip 100 kohm 1/32W	RMC73M-1F104JR, Asia model only
R951	9L0 7000 54M	Carbon film 10 kohm 1/16W	RD14S1J103JB, Asia model only
R952	9L0 7000 32M	Carbon film 220 ohm 1/16W	RD14S1J221JB, Asia model only
R953		Carbon chip 10 kohm 1/32W	RMC73M-1F103JR, Asia model only
VR901	9L0 1581 09	Variable resistor 10 kohm	RVR-12H103(3B), Asia model only

CAPACITORS GROUP

C105		Ceramic chip 470 pF/50V	CK73MSL1H471JR
C106,107	9L0 8800 16R	Mylar film 0.1μF/50V	CQ92HIH104KEBK
C108	9L0 8000 12Y	Electrolytic 4.7μF/50V	CE04W1H4R7MB (SSL)
C109		Ceramic chip 1200 pF/50V	CK73MB1H122KR
C111		Ceramic chip 0.033μF/50V	CK73MB1H333KR
C112		Ceramic chip 4700 pF/50V	CK73MB1H472KR
C114	9L0 8800 16R	Mylar film 0.1μF/50V	CQ92HIH104KEBK
C115	9L0 8800 14R	Mylar film 0.047μF/50V	CQ92MIH473KEBK
C116		Ceramic chip 10 pF/50V	CK73MSL1H100JR
C117		Ceramic chip 120 pF/50V	CK73MSL1H121JR
C118	9L0 8000 03Y	Electrolytic 1μF/50V	CE04W1H010MB (SSL)
C119		Ceramic chip 100 pF/50V	CK73MSL1H101JR
C120		Ceramic chip 0.027μF/16V	CK73MB1C273KR
C121,122		Ceramic chip 1000 pF/50V	CK73MB1H102KR

CD AUTO CHANGER SECTION

Ref. No.	Part No.	Part Name	Remarks
C123		Ceramic chip 0.1μF/16V	CK73MB1C104KR
C124	9L0 8000 57R	Electrolytic 220μF/10V	CE04W1A221MB (SME)
C125	9L0 8000 03Y	Electrolytic 1μF/50V	CE04W1H010MB (SSL)
C126		Ceramic chip 390 pF/50V	CK73MSL1H391JR
C127,128		Ceramic chip 0.022μF/16V	CK73MB1C223KR
C130	9L0 8800 16R	Mylar film 0.1μF/50V	CQ92M1H104KB
C132	9L0 8001 05R	Electrolytic 0.33μF/50V	CE04W1HR33MB (SRA)
C133	9L0 8800 16R	Mylar film 0.1μF/50V	CQ92HIH104KEBK
C134,135	9L0 8000 48R	Electrolytic 100μF/10V	CE04W1A101MB (SME)
C136		Ceramic chip 0.1μF/16V	CK73MB1C104JR
C137		Ceramic chip 100 pF/50V	CK73MSL1H101JR
C138	9L0 8800 13R	Mylar film 0.033μF/50V	CQ92MIH333KEBK
C139	9L0 8800 18R	Mylar film 0.22μF/50V	CQ92HIH224KEBK
C140		Ceramic chip 2200 pF/50V	CK73B1H222JR
C141		Ceramic chip 1000 pF/50V	CK73MSL1H102JR
C142		Ceramic chip 0.01μF/50V	CK73MB1H103JR
C143	9L0 8000 73R	Electrolytic 470μF/10V	CE04W1A471MB
C144	9L0 8000 48R	Electrolytic 100μF/10V	CE04W1A101MB (SME)
C145		Ceramic chip 0.01μF/50V	CK73MB1H103JR
C146	9L0 8000 05Y	Electrolytic 2.2μF/50V	CE04W1H2R2MB (SSL)
C150		Ceramic chip 1000 pF/50V	CK73MSL1H102JR
C151	9L0 8000 65R	Electrolytic 330μF/10V	CE04W1A331MB
C152~155		Ceramic chip 0.1μF/16V	CK73MB1C104KR
C156		Ceramic chip 0.01μF/50V	CK73MB1H103KR
C158~160	9LH 2400 67	Ceramic 0.047μF/50V	CK14F1H473ZB050
C161		Ceramic chip 0.047μF/50V	CK73MB1H473KR
C162	9LH 2400 67	Ceramic 0.047μF/50V	CK14F1H473ZB050
C163~166		Ceramic chip 0.047μF/50V	CK73MB1H473KR
C211~213		Ceramic chip 1000 pF/50V	CK73MSL1H102JR
C214		Ceramic chip 0.047μF/50V	CK73MB1H473KR
C301	9L0 8000 57R	Electrolytic 220μF/6.3V	CE04W0J221MB (SME)
C302		Ceramic chip 0.022μF/16V	CK73MB1C223KR
C305,306	9L0 8000 15Y	Electrolytic 10μF/16V	CE04WIC100MB (SSL)
C307,308		Ceramic chip 22 pF/50V	CK73MCH1H220JR
C309		Ceramic chip 0.022μF/16V	CK73MB1C223KR
C310	9L0 8000 15Y	Electrolytic 10μF/16V	CE04WIC100MB (SSL)
C311L,311R		Mylar film 4700 pF/50V	CQ92M1H472KB
C312L,312R	9L0 8000 15Y	Electrolytic 10μF/16V	CE04WIC100MB (SSL)
C314L,314R	9L0 8000 26Y	Electrolytic 22μF/50V	CE04W1H220MB (SSL)
C315L,315R	9L0 8800 03R	Mylar film 1000 pF/50V	CQ92M1H102KB
C316,317	9L0 8000 59Y	Electrolytic 220μF/25V	CE04W1E221MB (SSL)
C318	9L0 8900 43M	Ceramic 0.01μF/16V	CG14X1C103MB
C401A,401B	9L0 8003 67F	Electrolytic 2200μF/16V	CE04W1C222F
C401C	NOTE	NOTE	NOTE
C402	9L0 8000 62N	Electrolytic 220μF/50V	CE04W1H221MB (SME)
C403	9L0 8000 44Y	Electrolytic 47μF/50V	CE04WIH470MB (SSL)
C404	9LH 2441 71	Ceramic 0.01μF/50V	CK45B1H103KB
C411~414	9L0 8000 18Y	Electrolytic 10μF/50V	CE04WIH100MB (SSL)

Ref. No.	Part No.	Part Name	Remarks
C415,416		Ceramic chip 0.01μF/50V	CK73MB1H103KR
C417	9L0 8900 43M	Ceramic 0.01μF/16V	CG14X1C103MB
C418~420		Ceramic chip 0.01μF/50V	CK73MB1H103KR
C421	9L0 8000 48R	Electrolytic 100μF/10V	CE04W1A101MB (SME)
C422		Ceramic chip 0.01μF/50V	CK73MB1H103KR
C423	9L0 8000 12Y	Electrolytic 4.7μF/50V	CE04W1H4R7MB (SSL)
C424		Ceramic chip 0.047μF/50V	CK73MB1H473KR
C425		Ceramic chip 0.047μF/50V	CK73MB1H473KR, Asia model only
C426		Ceramic chip 1000 pF/50V	CK73MSL1H102ϑP
C427,428		Ceramic chip 560 pF/50V	CK73MSL1H561ϑP
C429		Ceramic chip 1000 pF/50V	CK73MB1H102KR, Asia model only
C430		Ceramic chip 0.047μF/50V	CK73MB1H473KR, Asia model only
C451	9L0 8000 74F	Electrolytic 470μF/16V	CE04W1C471MB (SME)
C452~454		Ceramic chip 0.01μF/50V	CK73MB1H103KR
C801~803		Ceramic chip 560 pF/50V	CK73MSL1H561JR
C901		Ceramic chip 0.01μF/50V	CK73MB1H103KR, Asia model only
C902		Ceramic chip 0.1μF/16V	CK73MB1C104KR, Asia model only
C903		Ceramic chip 330 pF/50V	CK73MSL1H331JR, Asia model only
C904		Ceramic chip 4700 pF/50V	CK73MB1H472KR, Asia model only
C905	9L0 8001 07R	Electrolytic 0.47μF/50V	CE04W1HR47MB (SRA), Asia model only
C906	9L0 8001 39R	Electrolytic 47μF/10V	CE04W1A470MB (SRA), Asia model only
C907		Ceramic chip 330 pF/50V	CK73MSL1H331JR, Asia model only
C910		Ceramic chip 0.047μF/50V	CK73MB1H473KR, Asia model only
C911	9L0 8000 48R	Electrolytic 100μF/10V	CE04W1A101MB (SME), Asia model only
C912	9L0 8000 72R	Electrolytic 470μF/6.3V	CE04W0J471MB (SME), Asia model only
C913		Ceramic chip 1000 pF/50V	CK73MSL1H102JB, Asia model only
C914	9L0 8000 58R	Electrolytic 220μF/16V	CE04W1C221MB (SME), Asia model only
C915	9L0 8000 57R	Electrolytic 220μF/10V	CE04W1A221MB (SME), Asia model only
C916		Ceramic chip 0.1μF/16V	CK73MB1C104KR, Asia model only
C917	9L0 8000 57R	Electrolytic 220μF/10V	CE04W1A221MB (SME), Asia model only
C918		Ceramic chip 0.1μF/16V	CK73MB1C104KR, Asia model only
C919		Ceramic chip 0.01μF/50V	CK73MB1H103KR, Asia model only
C921	9LH 2400 68	Ceramic 0.1μF/50V	CK14F1H104ZB050, Asia model only

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C922	9L0 89400 35M	Ceramic 1000 pF/16V	CG14X1C102MB, Asia model only	
OTHER PARTS GROUP				
CN401	9L2 97753 75	5P PH board-in		1
CN404	9L2 71 16 34A	2P TXL connector		1
CN421	9L2 71 15 34A	5P connector	Asia model only	1
CN451	9LE DO17 13	8P BTEM connector		1
CN452,453	9LE DO17 12	18P BTEM connector		2
CN501	9L2 71 16 42A	3P TXL connector		1
CN901	9L2 71 16 55A	4P TXL connector	Asia model only	1
CN902	9L2 71 16 50A	4P TXL connector	Asia model only	1
E001~004	9L2 72992 52R	Fuse holder	For F401,402	4
E100	9L0 54444 08	Lug terminal	Asia model only	1
E101	9L0 54444 08	Lug terminal		1
E801	9LN JO23 21	FL holder		1
E802	9LM DO41 31	Shield plate (A)	Asia model only	1
E804	9LM DO32 02	Shield plate (C)	Asia model only	1
FL801	9LD DO00 71	FL tube (6-ST-59GK)		1
J1~J7		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR	7
J8		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR, Asia model only	1
J30,31		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR, Asia model only	1
J40,41		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR, Asia model only	2
J51~62		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR	12
J64~66		Carbon chip 0 ohm 1/32W	RMC73M-1F000JR	3
JK201	9LE RO04 02	2P US pin jack		1
JK211,212	9L2 67714 13	Remocon jack		2
JK901	9LE RO05 42	Mic jack	Asia model only	1
JK902	9LE RO02 42	1P US pin jack	Asia model only	1
L301L,301R	9LB MO02 61R	Chip inductor	MMZ1608R102A	2
L302L,302R	9LB MO02 61R	Chip inductor	MMZ1608R102A	2
L303,304	9LB MO02 61R	Chip inductor	MMZ1608R102A	2
L451	9L2 1222 39M	LA axial coil 100KF		1
L901	9L2 2279 14M	Axial coil 3R3	Asia model only	1
LF001	9L2 1695 11	LX-ZCAT 1518-0730 line clamp filter	Europe & U.K. models only	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
N901	9L4 7874 06	Heat sink	Asia model only	1
PG001	9LE D017 71	PLG-VH plug 2P4S		1
PG101	9L2 6742 65	6P MX pin post		1
PG102	9L2 9590 56	7P PH pin post		1
PG103	9L2 9590 57	8P PH pin post		1
PG401	9L2 9590 54	PH plug (5P)		1
PG402	9L2 6742 65	6P MX pin post		1
PG403	9L2 6742 64	5P MX pin post		1
PG404	9L2 6586 91W	TXL(L) pin post 2P		1
PG421	9L2 6586 74W	5P TXL pin post	Asia model only	1
PG451	9LE D017 33	8P BTEM pin post		1
PG452,453	9LE D017 32	18P BTEM pin post		2
PG454	9LE D017 21	30P BTEM pin post	Asia model only	1
PG501	9L2 6586 92W	3P pin post (TXL 2mm)		1
PG801	9L2 6989 86	FFC connector 29P		1
PG802	9L2 6989 93	FFC connector 29P (L)		1
PG901,902	9L2 6586 73W	4P TXL plug	Asia model only	2
P1~3	9L5 7152 35	1 SQ pin		3
P4	9L2 6883 63W	1 SQ pin		1
S1	9LF E002 21R	Tact switch (SKHVBB)		1
S801~803	9LF E002 21R	Tact switch (SKHVBB)	Asia model only	3
S804~812	9LF E002 21R	Tact switch (SKHVBB)		9
S901	9L2 6225 21	SW-SL2-2	Asia model only	1
T001	9L3 9737 31	Bar lock tie	Europe & U.K. models only	1
W301		UL wire L=50 BLK	Asia model only	1
W705A		NOTE		1
W705B		UL wire L=180 blue	Asia model only	1
W707		UL wire L=200 BLK		1
X301	9L2 7802 27	Crystal 16.9344MHz		1
X421	9LB P001 41	Ceramic 8.00MHz		1
#B23	9L8 6714 08	Screw 3x8 DT	Asia model only	1
#B24	9L8 6714 04	Screw 3x4 DT bind	Asia model only	1

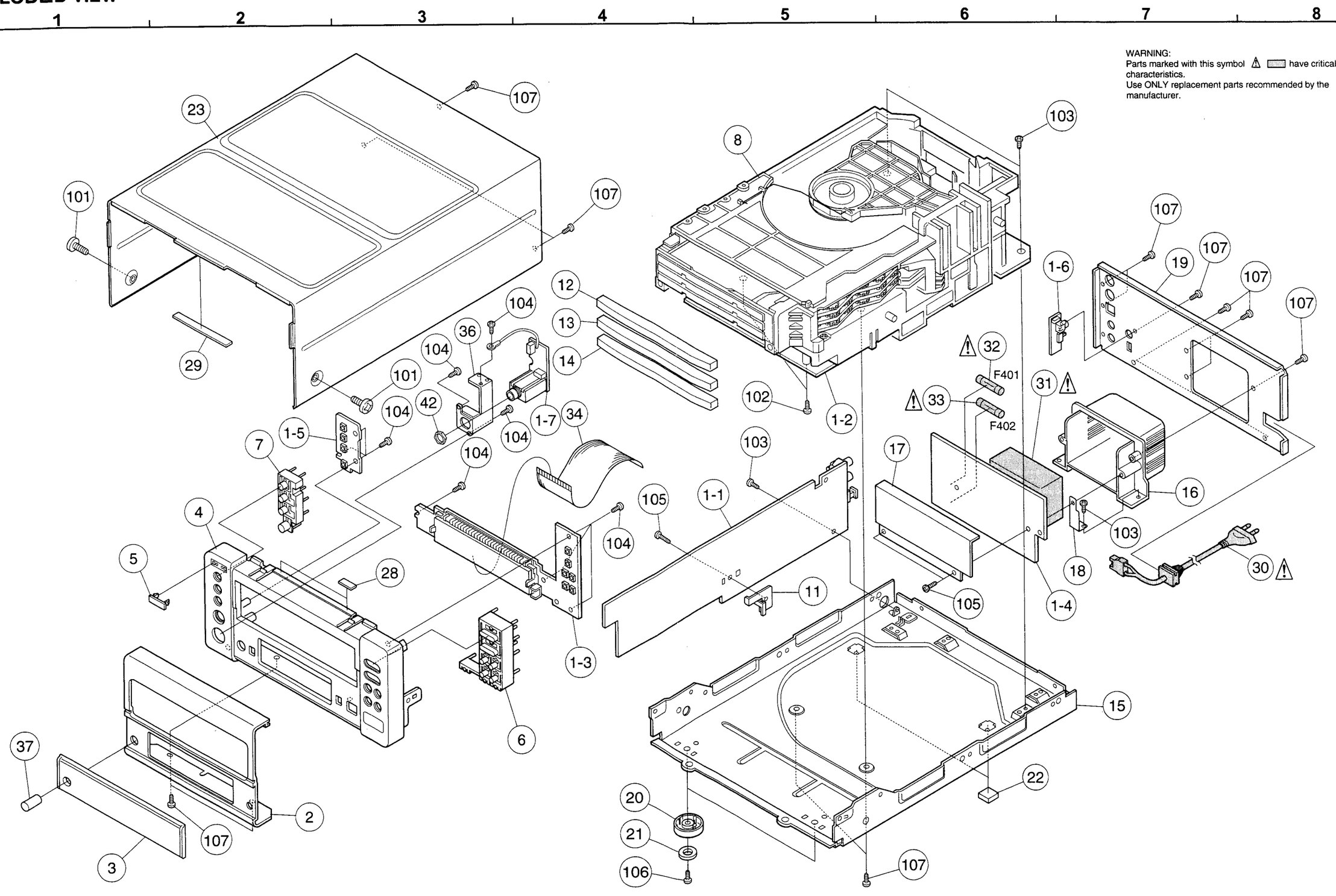
ADDENDUM PARTS LIST OF CDC/VCD P.W.B. UNIT ASS'Y

Ref. No.	Part Name	Part No.			Remarks	Q'ty
		U.S.A. & Canada	Europe & U.K.	Asia		
RESISTORS GROUP						
R181	Carbon chip 0 ohm 1/32W	—	—	Need	RMC73M-1F000JR	
R181	Carbon chip 330 ohm 1/32W	Need	Need	—	RMC73M-1F331JR	
R182	Carbon chip 0 ohm 1/32W	—	—	Need	RMC73M-1F000JR	
R182	Carbon chip 330 ohm 1/32W	Need	Need	—	RMC73M-1F331JR	
R183	Carbon chip 0 ohm 1/32W	—	—	Need	RMC73M-1F000JR	
R183	Carbon chip 330 ohm 1/32W	Need	Need	—	RMC73M-1F331JR	
R311	Carbon chip 0 ohm 1/32W	Need	Need	—	RMC73M-1F000JR	
CAPACITORS GROUP						
C401C	Electrolytic 1000 µF/16V	9L0 8000 82F	9L0 8000 82F	—	CE04W1C102F (SME)	
C401C	Electrolytic 2200 µF/16V	—	—	9L0 8003 67F	CE04W1C222F	
OTHER PARTS GROUP						
W705A	UL wire L=50 BLK	Need	Need	—		

CD AUTO CHANGER SECTION

EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ ▭ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.



PARTS LIST OF EXPLODED VIEW

CD AUTO CHANGER SECTION

※ As for "Note" in Part No., refer to ADDENDUM PARTS LIST.

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	NOTE	NOTE		1
1-1		Main unit		
1-2		Motor unit		
1-3		FL unit		
1-4		PT unit		
1-5		Keypad unit		
1-6		Video unit	Asia model only	
1-7		Mic unit	Asia model only	
2	NOTE	Front panel AL (UDCM)	Aluminum	1
3	NOTE	Clear panel (UDCM)	Window	1
4	NOTE	Front panel (UDCM)	Plastic molding	1
5	9LP U003 31	DENON badge		1
6	NOTE	Button (P)		1
7	NOTE	Play button (UDCM)		1
8	9LU C004 51	3-CD changer mecha		1
★ 9	9LM N006 12	Protect sheet		1
★ 10	9LM M001 71	Wire clamper		1
11	9LN J023 31	PWB holder		1
12	NOTE	CD loader panel (1)		1
13	NOTE	CD loader panel (2)		1
14	NOTE	CD loader panel (3)		1
15	9LN Q046 01	Bottom chassis		1
16	9LN J023 11	PT. cover		1
17	9LM E010 91	Shield sheet		1
18	9LN A254 11	Earth plate (pt)		1
19	NOTE	Rear plate		1
20	9LN M007 31	Foot (30)		2
21	9LM S002 11	Felt		2
22	9LM Q000 35	Leg		2
23	9LQ A009 13	Top cover		1
★ 24	NOTE	Origin label	Place of origin	1
★ 25	9L4 9303 12	Number sheet		1
★ 26	9LQ N021 81	Caution label		1
★ 27	9LS U018 51	Protect paper		1
28	9L4 8583 32	Spacer 14x8		2
29	9L4 8583 36	Spacer 60x8		1
⚠ 30	NOTE	AC cord	AP1	1
⚠ 31	NOTE	Power trans	PT001	1
⚠ 32	NOTE	NOTE	F401	1
⚠ 33	NOTE	NOTE	F402	1
34	9LE K010 22	29P FFC cable (P=1.25)	W101	1
★ 35	9L3 9737 31	Bar lock tie		NOTE
36	9LN A292 01	Phone bracket	Asia model only	1
37	9LP C021 73	Mic knob	Asia model only	1
★ 38	9L4 9485 11	Fuse caution label	U.S.A. & Canada models only	1
★ 39	9LQ K000 51	Manufacturd label	U.S.A. & Canada models only	1
★ 40	9L4 9642 02	UL caution label	U.S.A. & Canada models only	1
★ 41	9LQ L004 61	Class label	Asia model only	1
42	9LM K003 21	Nut M12x1	Asia model only	1
★ 43	9L2 1695 13	Line clamp filter	LF002, Asia model only	1
★ 44	9L4 9485 13	Caution label	U.S.A. & Canada models only	1
SCREWS				
101	9L8 6796 06	Screw 4x6 DT bind B		2
102	9L8 6913 08	Screw 2.6x8 BT bind		2
103	9L8 6914 08	Screw 3x8 BT bind		NOTE
104	9L8 6914 10	Screw 3x10 BT bind		7
105	9L8 6914 14	Screw 3x14 BT bind		3
106	9L8 6994 06	Screw 3x6 BT bind B		2
107	9L8 6994 10	Screw 3x10 BT bind B		NOTE
PACKING & ACCESSORIES (Not included EXPLODED VIEW.)				
201	NOTE	Carton box		1
202	9LS P053 71	Cushion	For UDRA	2
203	9LS P054 01	Cushion CD	For UDCM	2
204	NOTE	Poly sack		2
205	9L3 6276 61	Poly sack	For AC cord	2
206	9LQ T308 21	Warranty card ass'y	U.S.A. & Canada models only	1
207	NOTE	UPC label		1
207	NOTE	EAN label		1
208	9LS X006 91	Origin label	Asia model only	1
209	NOTE	Control label		1
210	NOTE	Poly sack		1
211	9L2 7132 25	1P US Pin cord	Asia model only	1
212	9LE W034 82	2P US Pin cord		1
213	9LE W034 92	System cord		1
214	9L2 7593 41	AM loop ant.		1
215	9LE F021 33	FM ant.		1
216	NOTE	Instruction manual		1
217		Battery		1
218	NOTE	NOTE		1
218	NOTE	NOTE		1

ADDENDUM PARTS LIST OF EXPLODED VIEW

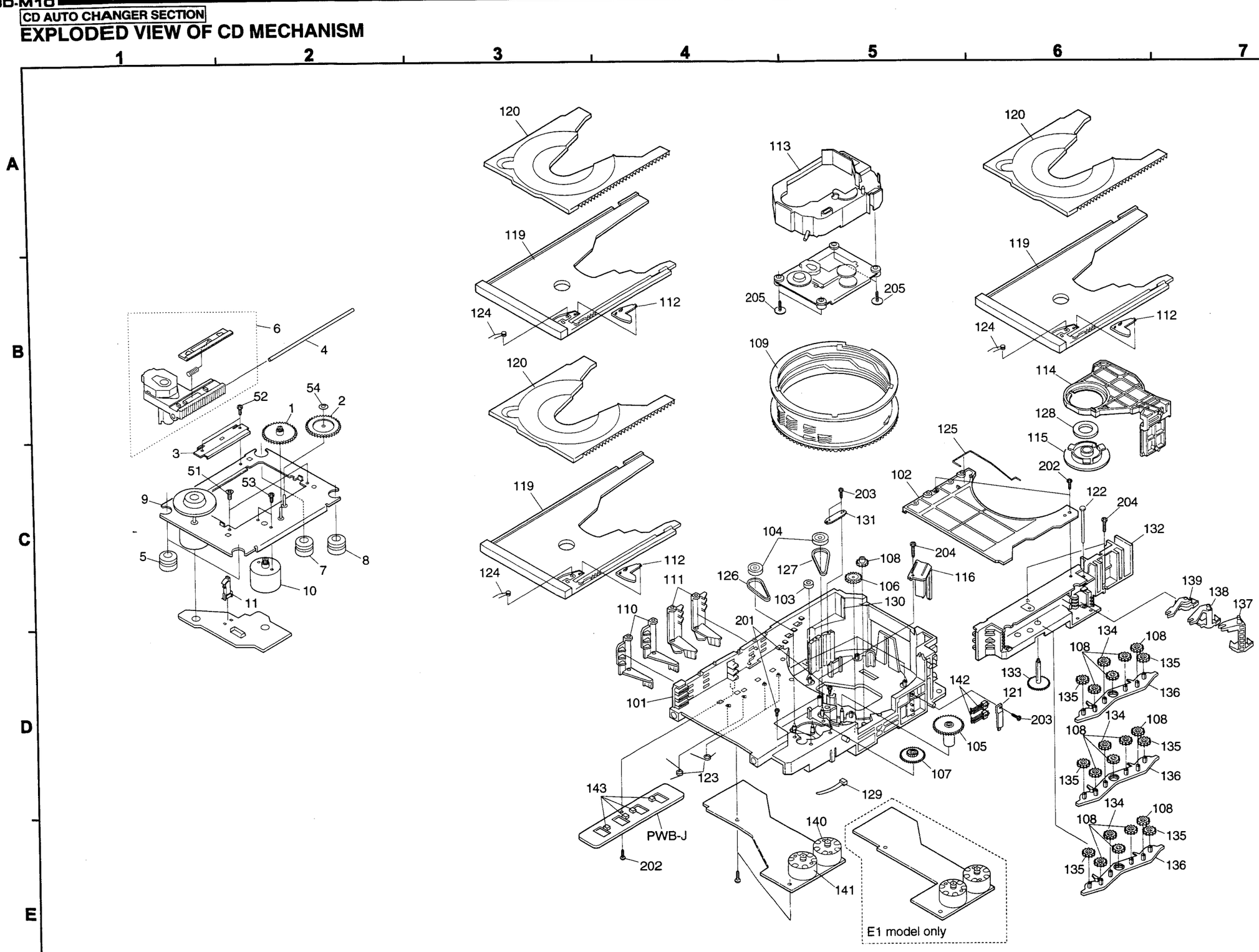
CD AUTO CHANGER SECTION

Ref. No.	Part Name	U.S.A/Canada		Europe		U.K.		Asia		Remarks
		Part No.	Q'ty	Part No.	Q'ty	Part No.	Q'ty	Part No.	Q'ty	
1	CDC P.W.B. unit ass'y	9LJ T083 71		9LJ T083 72		9LJ T083 73		—		
1	VCD P.W.B. unit ass'y	—		—		—		9LJ T083 76		
2	Front panel AL (UDCM)	9LP M065 71		9LP M065 71		9LP M065 71		9LP M065 72		Aluminum
3	Clear panel (UDCM)	9LP H058 24		9LP H058 24		9LP H058 24		9LP H059 31		Window
4	Front panel (UDCM)	9LP H059 41		9LP H059 41		9LP H059 41		9LP H059 42		Plastic molding
6	Button (P)	9LP C031 51		9LP C031 51		9LP C031 51		9LP C031 52		
7	Play button (UDCM)	9LP C031 11		9LP C031 11		9LP C031 11		9LP C031 12		
12	CD loader panel (1)	9LP H059 11		9LP H059 11		9LP H059 11		9LP H059 14		
13	CD loader panel (2)	9LP H059 12		9LP H059 12		9LP H059 12		9LP H059 15		
14	CD loader panel (3)	9LP H059 13		9LP H059 13		9LP H059 13		9LP H059 16		
19	Rear plate	9LQ A012 51		9LQ A012 52		9LQ A012 52		9LQ A012 53		
★ 24	Origin label	9L4 9313 06		9LQ NO29 74		9LQ NO29 74		9L4 9313 06		Place of origin
⚠ 30	AC cord	9LE V007 02		9LE V005 85		9LE V005 85		9LE V005 85		AP1
⚠ 31	Power trans	9LB T009 02		9LB T009 03		9LB T009 03		9LB T009 61		PT001
⚠ 32	Fuse 800mA 250V	9L2 7224 69		—		—		—		F401
⚠ 32	Fuse T630mA	—		9L2 7280 72		9L2 7280 72		9L2 7280 72		F401
⚠ 33	Fuse 800mA 250V	9L2 7224 69		—		—		—		F402
⚠ 33	Fuse T630mA	—		9L2 7280 72		9L2 7280 72		9L2 7280 72		F402
★ 35	Bar lock tie	9L3 9737 31	3	9L3 9737 31	3	9L3 9737 31	3	9L3 9737 31	4	
SCREWS										
103	Screw 3x8 BT bind	9L8 6914 08	5	9L8 6914 08	5	9L8 6914 08	5	9L8 6914 08	7	
107	Screw 3x10 BT bind B	9L8 6994 10	14	9L8 6994 10	14	9L8 6994 10	14	9L8 6994 10	15	

ADDENDUM PARTS LIST OF PACKING & ACCESSORIES

Ref. No.	Part Name	Part No.				Remarks	Q'ty
		U.S.A. & Canada	Europe	U.K.	Asia		
PACKING & ACCESSORIES (Not included EXPLODED VIEW.)							
201	Carton box	9LS G080 11	9LS G080 12	9LS G080 12	9LS G080 13		1
204	Poly sack	9LS U010 20	9LS U010 20	9LS U010 21	9LS U010 20		2
207	UPC label	9LQ N019 96	—	—	—		1
207	EAN label	—	9LQ N028 01	9LQ N028 04	—		1
209	Control label	9LQ N027 61	9LQ N027 62	9LQ N027 63	9LQ N027 64		1
210	Poly sack	9L3 6402 14W	9L3 6402 14W	9L3 6402 13W	9L3 6402 14W		1
216	Instruction manual	9LQ R263 31	9LQ R263 32	9LQ R263 32	9LQ R263 33		1
218	Remote controller RC-846	9LH L009 03	9LH L009 03	9LH L009 03	—		1
218	Remote controller RC-847	—	—	—	9LH L009 04		1

EXPLODED VIEW OF CD MECHANISM



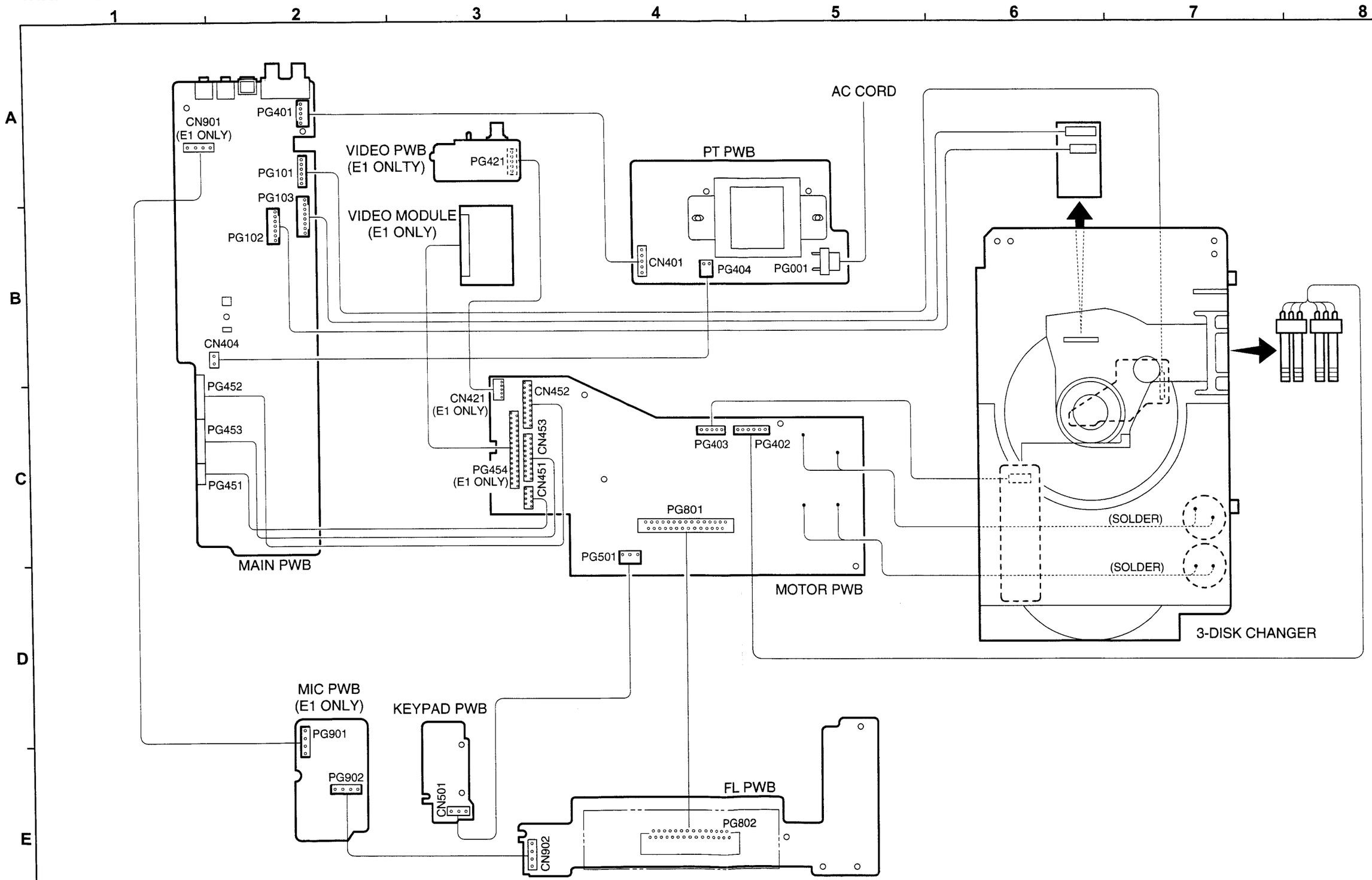
PARTS LIST OF CD CHANGER MECHANISM UNIT (Part No. : 9LU C004 51)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
LOADER MECH. SECTION				
101	937 0233 003	Main base	1242070025	1
102	937 0233 100	Top board	1242000146	1
103	937 0233 207	Cam guide roller	1242870011	3
104	937 0233 304	Drive pulley	1102860025	2
105	937 0233 401	Idler gear	1242810041	1
106	937 0233 508	Cam gear	1242810042	1
107	937 0233 605	Middle gear	1242810043	1
108	937 0233 702	Tray idler gear	1242810046	12
109	937 0233 809	Main cam	1242410001	1
110	937 0233 906	Front switch lever	1242480078	2
111	937 0234 002	Rear switch lever Ass'y	1242480115	2
112	937 0234 109	Tray lock lever	1242480080	3
113	937 0234 206	Mecha holder	1243450005	1
114	937 0234 303	Stabilizer holder	1243450006	1
115	937 0234 400	Stabilizer	1242140101	1
116	937 0234 507	Mecha holder guide	1243450004	1
119	937 0234 604	Guide tray	1241100051	3
120	937 0234 701	Disk tray	1241100052	3
121	937 0234 808	Switch angle	1242000147	1
122	937 0234 905	Tray change shaft	1242900077	1
123	937 0235 001	Tray switch spring	1242580117	4
124	937 0235 108	Tray lock lever spring	1242580119	3
125	937 0235 111	Disk stop spring	1242580118	1
126	937 0235 205	Tray drive belt	1242710003	1
127	937 0235 302	Cam drive belt	1242710004	1
128	937 0235 409	Magnet	1103730019	1
129	445 0033 005	Nylon band (L=80mm)	1309330057	2
130	937 0235 506	Rubber sheet	1243520009	1
131	937 0235 603	Mecha holder angle	1242000192	1
132	937 0235 700	Change box	1242070027	1
133	937 0235 807	Center gear	1242810044	1
134	937 0235 904	Center tray gear	1242810045	3
135	937 0236 000	Tray drive gear	1242810047	6
136	937 0236 107	Tray change lever	1242480074	3
137	937 0236 204	Top joint lever	1242480075	1
138	937 0236 301	Middle joint lever	1242480076	1
139	937 0236 408	Bottom joint lever	1242480077	1
140	937 0236 602	Motor Ass'y	1246300041 for main cam	1
141	937 0236 602	Motor Ass'y	1246300041 for tray	1
142	937 0236 709	Cam switch	1245300022	2
143	937 0041 606	Tray switch	1305301248	4
201	937 0236 505	Screw 2.6x4	1309700139	4
202	937 0236 518	Screw 2x7	1429700216	3
203	937 0236 521	Screw 2x6	1429700120	3
204	937 0182 947	Screw 2.6x12	1429700072	4
205	937 0231 047	Screw with washer 2.6x10	1129700192	4

Ref. No.	Part No.	Part Name	Remarks	Q'ty
TRAVERES SECTION				
1	937 0121 005	Middle gear	1102810126	1
2	937 0121 102	Draiv gear	1102810127	1
3	937 0121 209	Guide railroller	1102480681	1
4	937 0121 306	Guide shaft	1102900223	1
5	937 0121 403	Gum cushion (gray)	1303260448	2
6	937 0227 103	Pickup unit	1306170020	1
7	937 0164 305	Gum cushion (green)	1103260278	1
8	937 0164 208	Gum cushion (red)	1103260275	1
9	937 0150 607	Chassis with motor Ass'y	1106300208	1
10	937 0122 004	Slide motor Ass'y	1106300207	1
11	937 0122 208	Limit switch	1105300522	1
51	937 0121 801	Screw 2.6x6	1109700937	2
52	937 0121 814	Screw 2x5	1109700938	2
53	937 0121 827	Screw 2x3	1309701564	2
54	937 0121 908	Cut washer φ1.5xφ3.8x0.25mm	1109900315	1

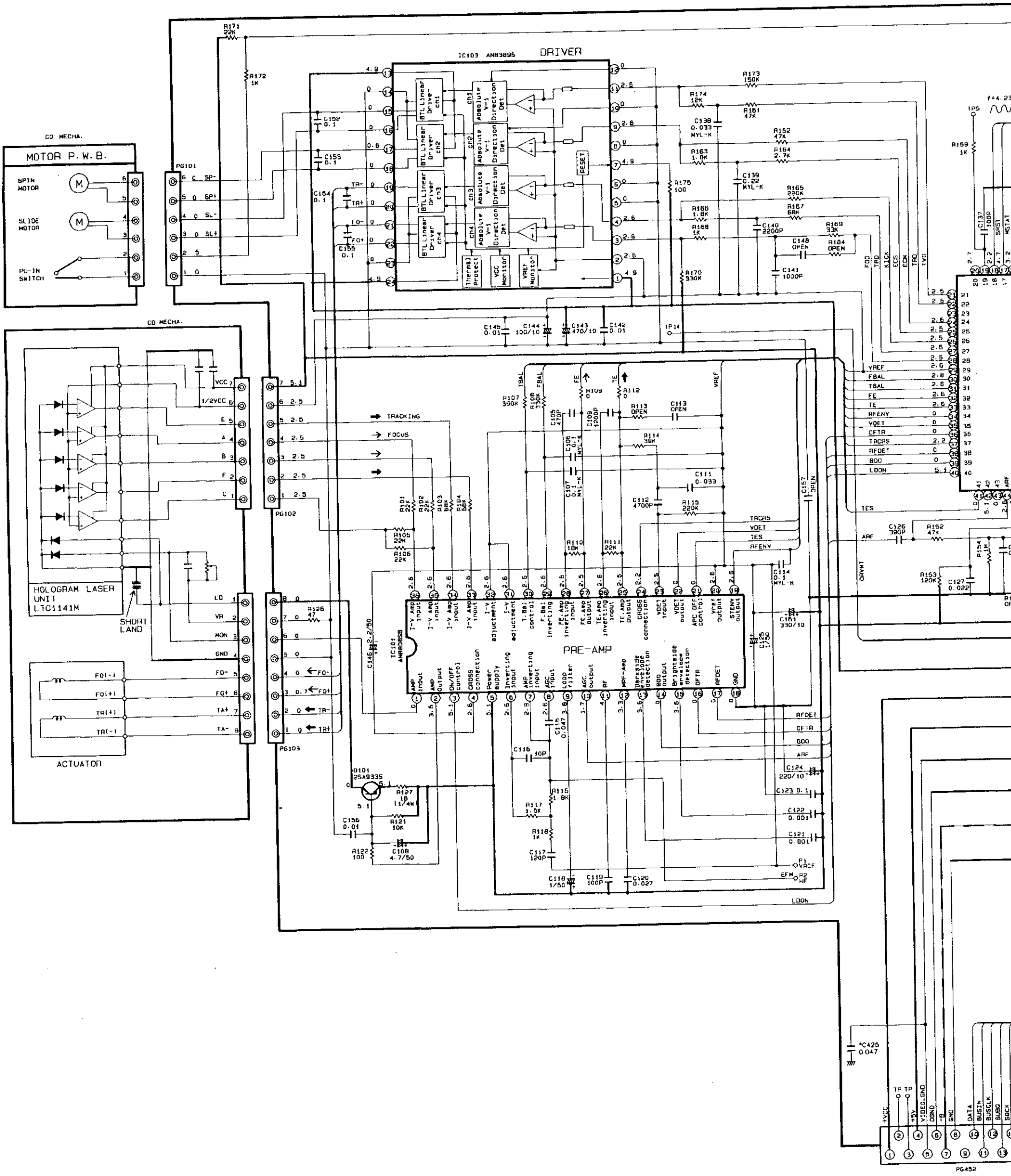
CD AUTO CHANGER SECTION

WIRING DIAGRAM



SCHEMATIC DIAGRAMS (1/3)

1 2 3 4 5



NOTICE

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CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

SYMBOL / DEST.	C401c	F401 / F402
E3	0800082F	800mA 250
E2	0800082F	T630mA
EK	0800082F	T630mA
E1	0800367F	T630mA
EA	0800367F	T630mA
J	0800082F	800mA 250

⇨ Audio Signal
→ Focus
⇻ Tracking

IC102
MN662720RB
SERVO/DSP

IC301
LC78835KM
D/A

IC302
BA15218F
GAIN AMP

IC413
K1A7805PI

TO U-CON UNIT CN452

TO U-CON UNIT CN453

TO U-CON UNIT CN451

characteristics.
manufacturer.

ure you make either (1) a
stance check. If the leakage
from chassis to either side
t is detective.

problem is located and

SYMBOL / DEST.	C401c	F401 / F402	PG901	PT001	Q302L / Q302R	R181 / R183	R305L / R305R	R311	C425	C430
E3	0800082F	800mA 250V	X	BT00902	X	0790031R	X	0	X	X
E2	0800082F	T630mA	X	BT00903	X	0790031R	X	0	X	X
EK	0800082F	T630mA	X	BT00903	X	0790031R	X	0	X	X
E1	0800367F	T630mA	0	BT00961	0	0790001R	0	X	0	0
EA	0800367F	T630mA	0	BT00961	0	0790001R	0	X	0	0
J	0800082F	800mA 250V	X	BT00901	X	0790031R	X	0	X	X

CD AUTO CHANGER SECTION

7 8 9 10 11

A B C D E F G H

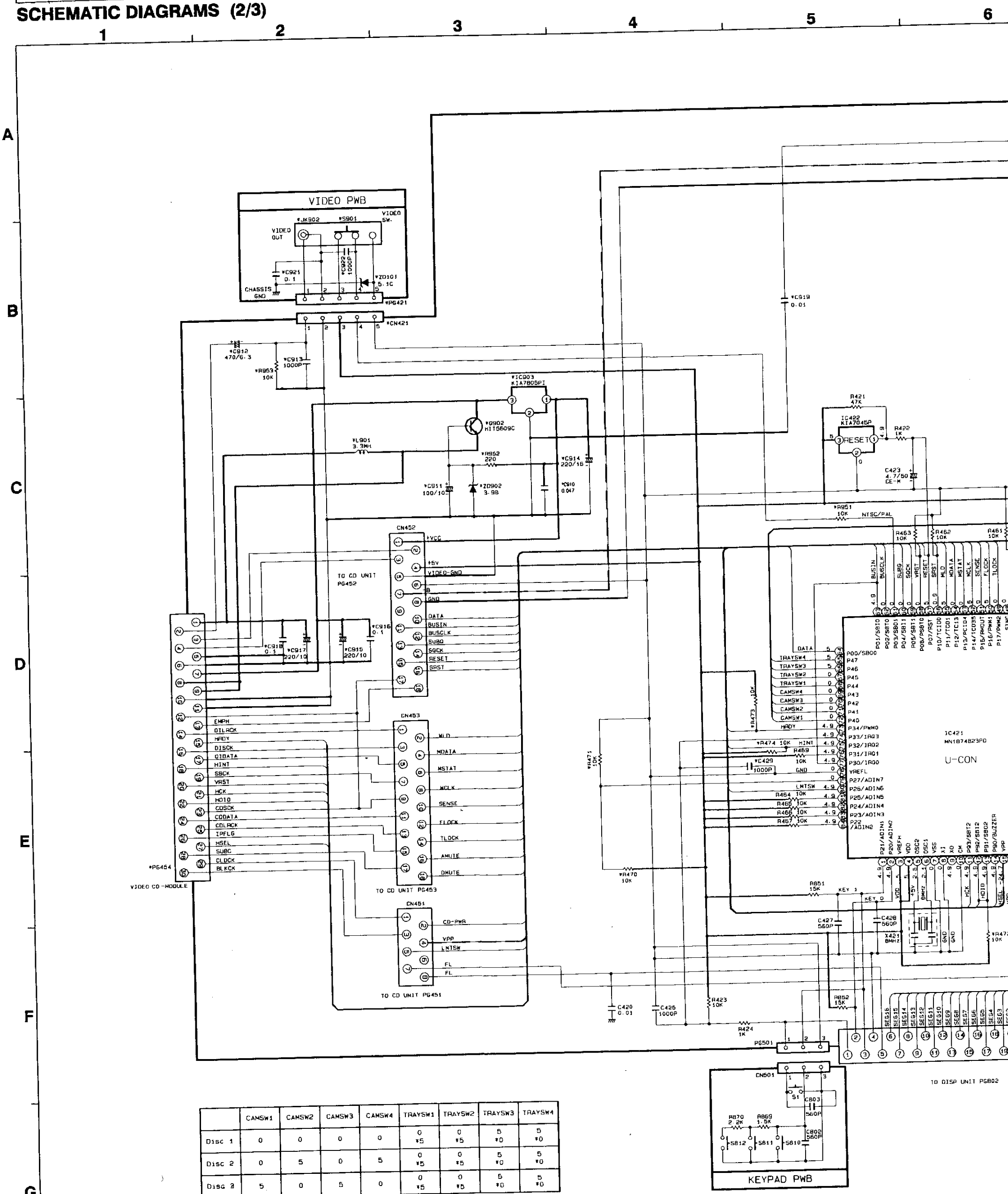
⇨ Audio Signal
→ Focus
➡ Tracking

	Q302L / Q302R	R181 / R183	R305L / R305R	R311	C425	C430
2	x	0790031R	x	0	x	x
3	x	0790031R	x	0	x	x
3	x	0790031R	x	0	x	x
1	0	0790001R	0	x	0	0
1	0	0790001R	0	x	0	0
1	x	0790031R	x	0	x	x

+B LINE
-B LINE
SIGNAL LINE

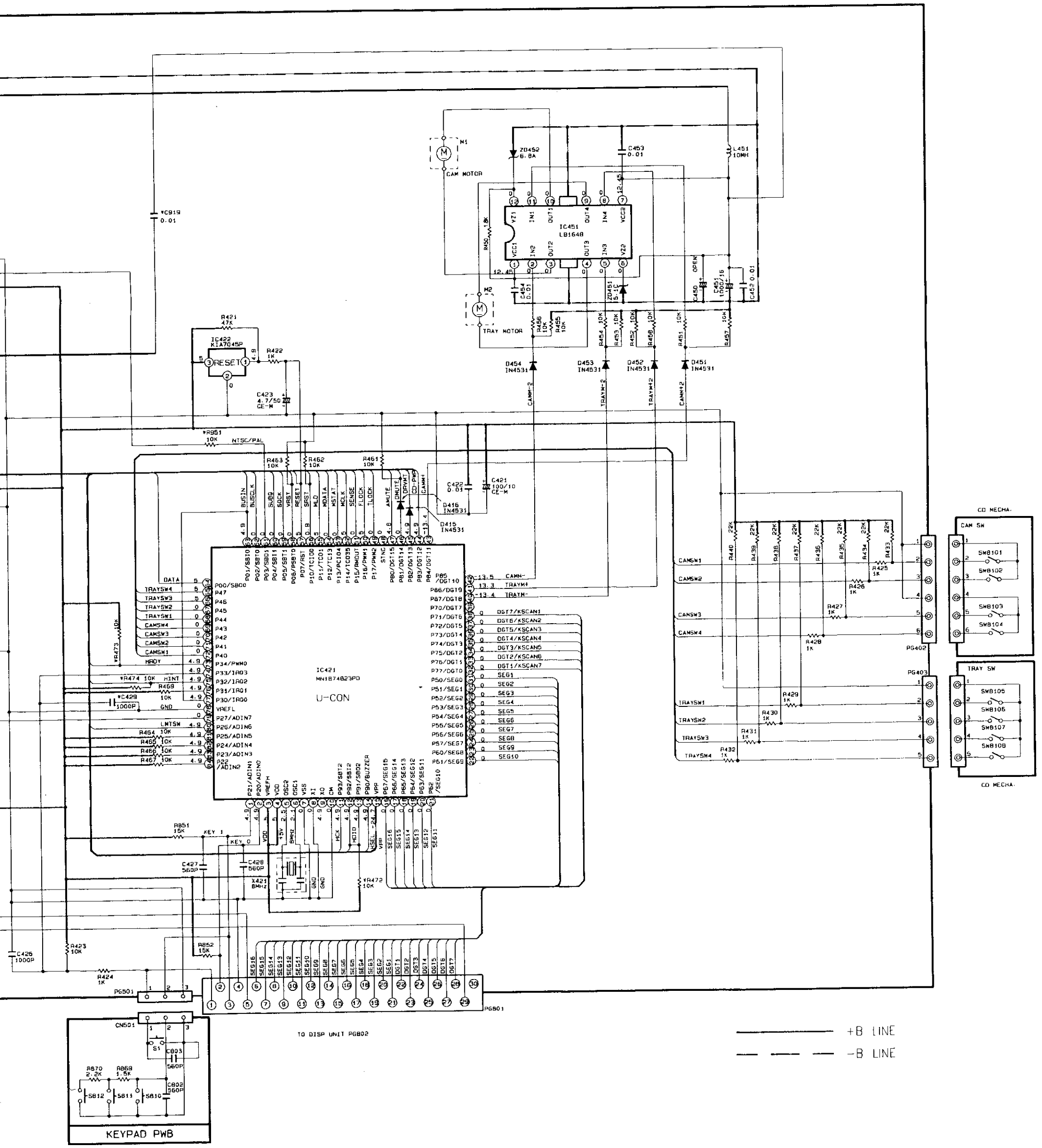
CD AUTO CHANGER SECTION

SCHEMATIC DIAGRAMS (2/3)



	CAMSW1	CAMSW2	CAMSW3	CAMSW4	TRAYSW1	TRAYSW2	TRAYSW3	TRAYSW4
Disc 1	0	0	0	0	0 *5	0 *5	5 *0	5 *0
Disc 2	0	5	0	5	0 *5	0 *5	5 *0	5 *0
Disc 3	5	0	5	0	0 *5	0 *5	5 *0	5 *0

SYMBOL / DEST.	C429	C910 ~ C919	C921 ~ C922	CN421	IC903	JK902	L901	PG421	PG454	Q902	R470	R471 ~ R474	R951 ~ R953	S901	ZD101	ZD902
E3	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X
E2	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X
EK	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X
E1	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0
EA	0	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0
J	X	X	X	X	X	X	X	X	X	X	X	0	X	X	X	X



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current exceeds 0.5 milliamps, or if the resistance fr
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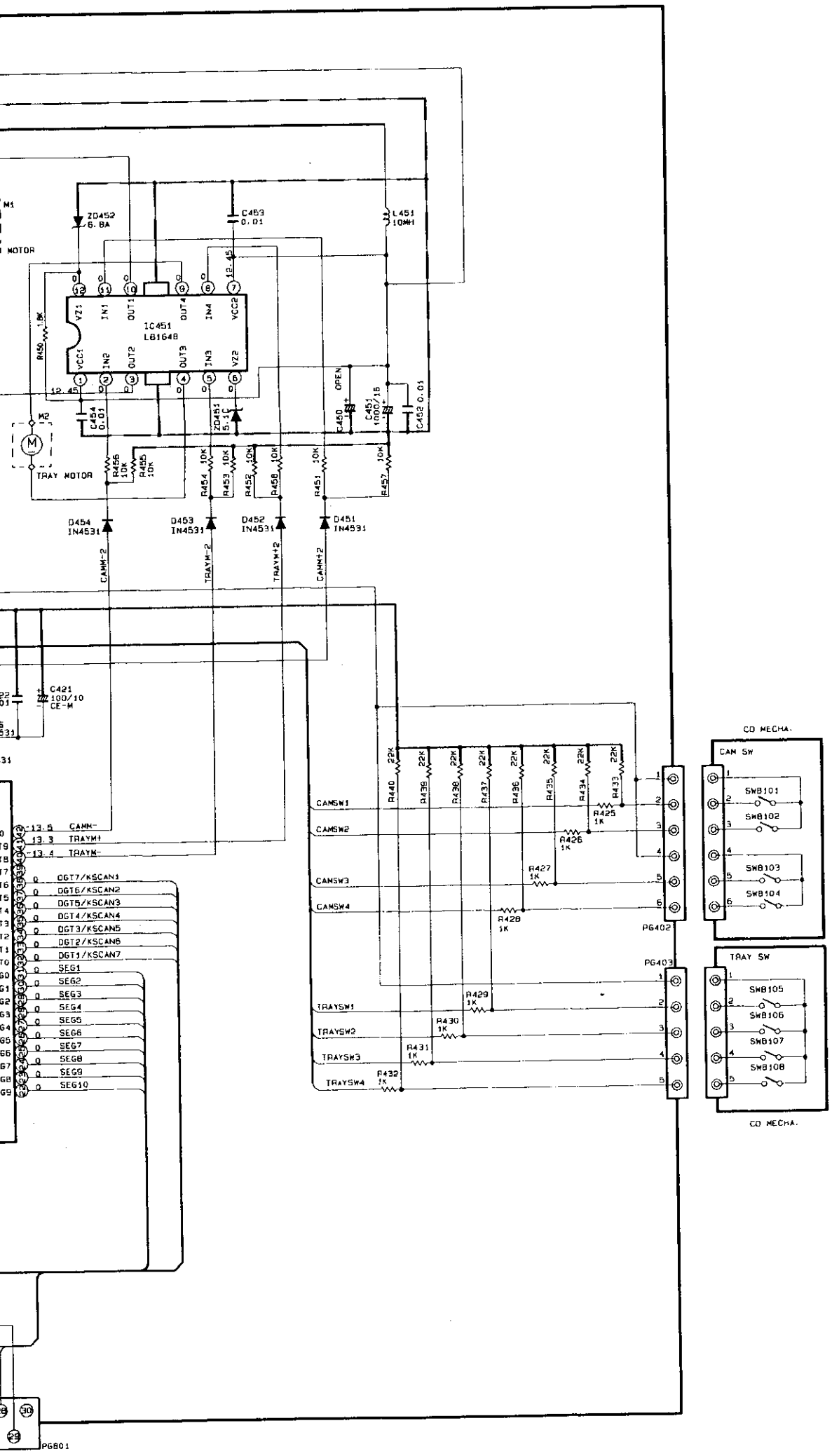
corrected.



——————— +B LINE

— — — — — -B LINE

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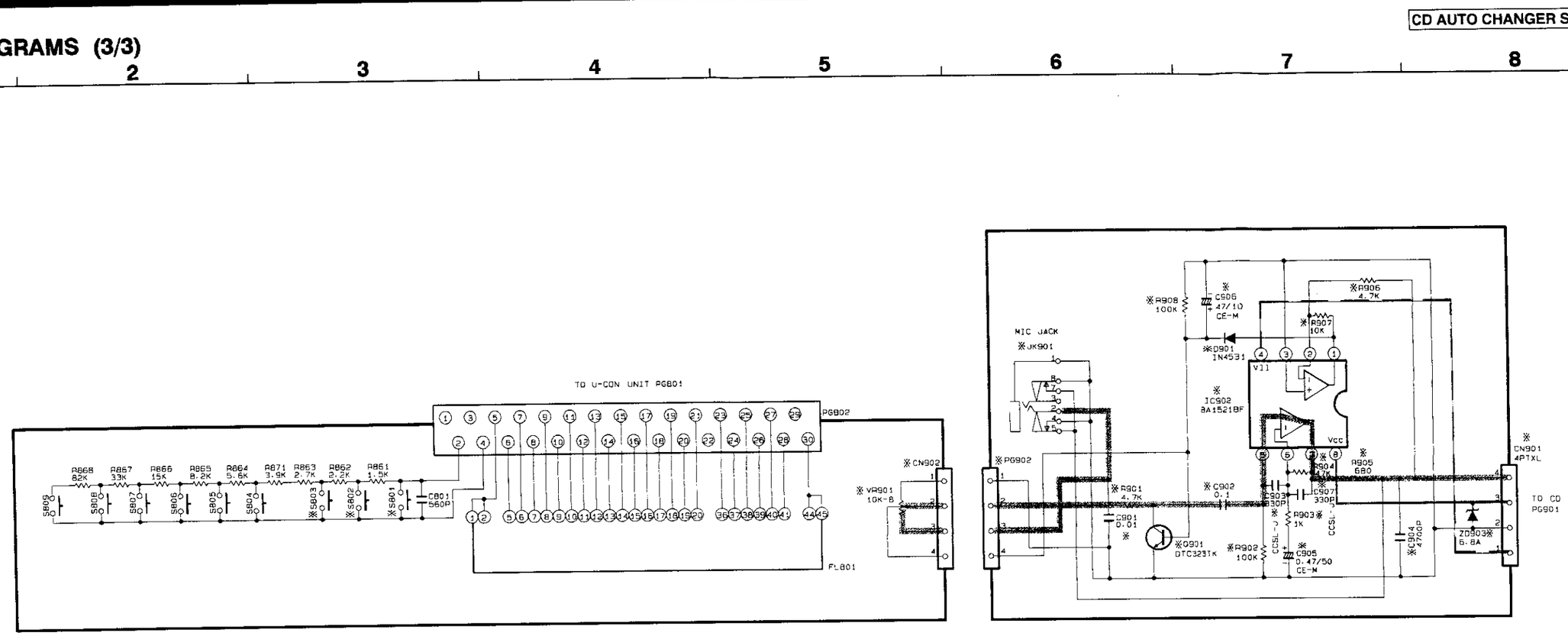
CD AUTO CHANGER SECTION

SCHEMATIC DIAGRAMS (3/3)



+B LINE

-B LINE

MIC SIGNAL LINE

※ Only for E1·EA

o S801 - KARAOKE MPX	o S807 - PAUSE
o S802 - KEY CONTROL +	o S808 - PLAY
o S803 - KEY CONTROL -	o S809 - DISC
o S804 - SkIP	o S810 - OPEN / CLOSE 3
o S805 - SkIP	o S811 - OPEN / CLOSE 2
o S806 - STOP	o S812 - OPEN / CLOSE 1
	o S1 - ON / STANDBY

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