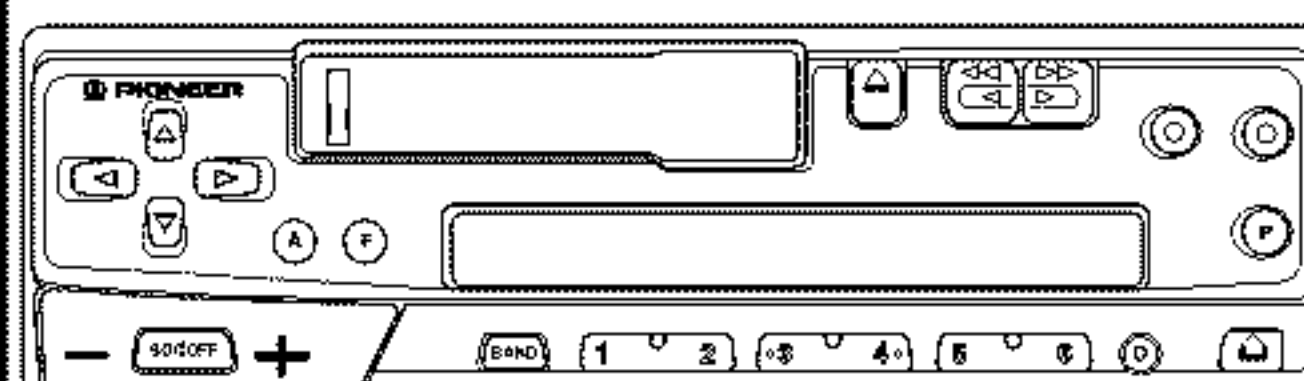


Service Manual

PIONEER
The Art of Entertainment

KEH-2700R/X1M/EW



ORDER NO.
CRT2110

HIGH POWER CASSETTE PLAYER WITH RDS TUNER

KEH-2700R X1M/EW

KEH-2730R X1M/EW

NOTE:

- See the separate manual CX-644(CRT1800) for the cassette mechanism description.
- The cassette mechanism assy employed in this model is one of 2M series.
- This service manual has no describe the CD test mode.

For the operations in the CD test mode, refer to the CD player's Service Manual.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING

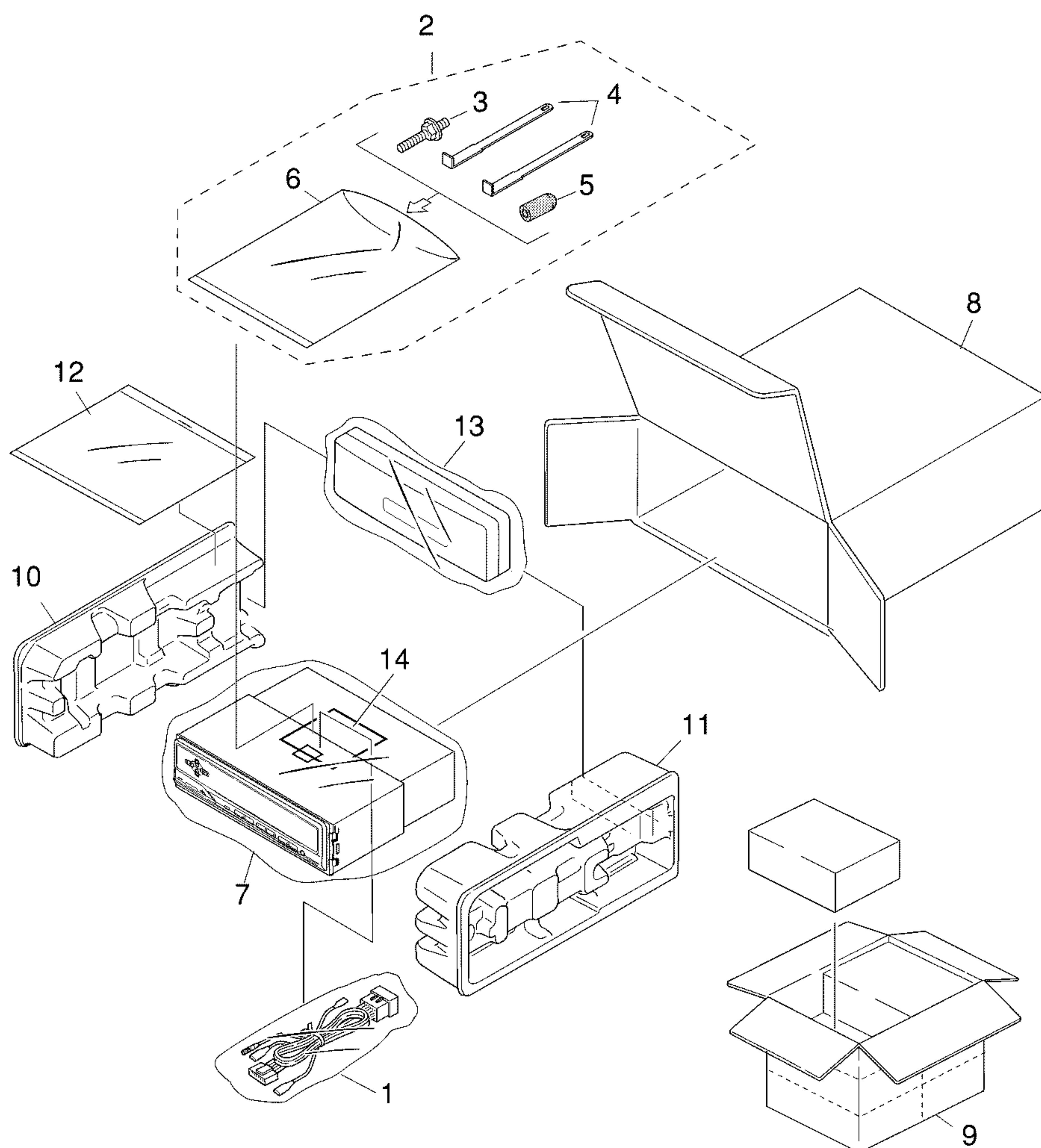


Fig. 1

NOTE:

- Parts marked by “*” are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	
			KEH-2700R/X1M/EW	KEH-2730R/X1M/EW
	1	Cord Assy	CDE5498	CDE5498
	2	Accessory Assy	CEA1917	CEA1917
	3	Screw	CBA1304	CBA1304
	4	Handle(x2)	CNC5395	CNC5395
	5	Bush	CNV3930	CNV3930
*	6	Polyethylene Bag	E36-615	E36-615
	7	Polyethylene Bag	CEG-162	CEG-162
	8	Carton	CHG3348	CHG3349
	9	Contain Box	CHL3348	CHL3349
	10	Protector	CHP1622	CHP1622
	11	Protector	CHP1623	CHP1623
	12-1	Owner's Manual	CRD2546	CRD2546
	12-2	Owner's Manual	CRD2547	CRD2547
	12-3	Installation Manual	CRD2548	CRD2548
*	12-4	Warranty Card	CRY1087	CRY1087
	13	Case Assy	CXB1063	CXB1063
*	14	Caution Card	CRP1172	CRP1172

● Owner's Manual, Installation Manual

Part No.	Language
CRD2546	English,Spanish,German
CRD2547	French,Italian,Dutch
CRD2548	English,Spanish,German French,Italian,Dutch

2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR

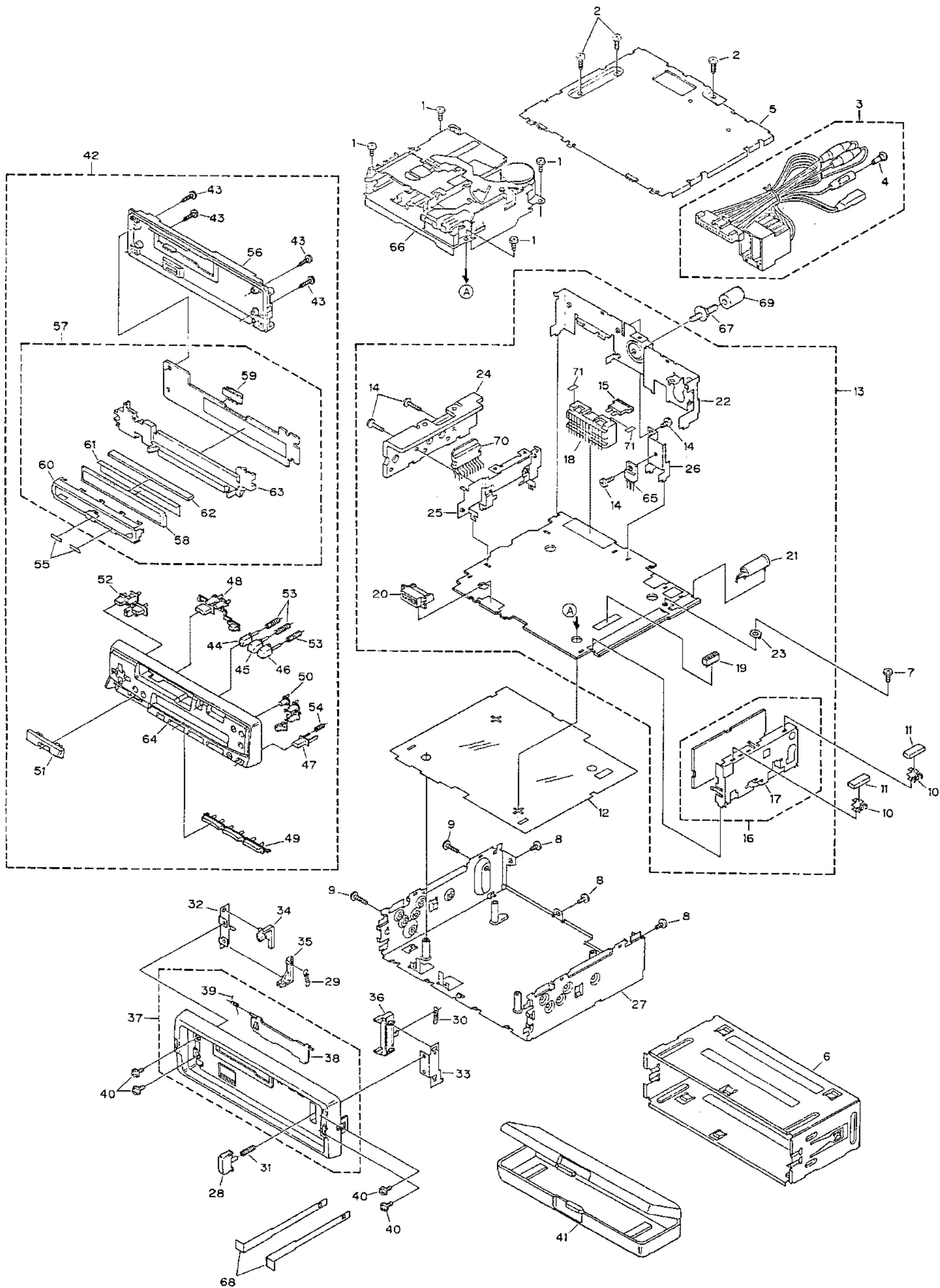


Fig. 2

(1) EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P050FMC	36	Arm	CNV4728
2	Screw	BSZ30P100FMC	37	Panel Unit	See Contrast table(2)
3	Cord Assy	CDE5498	38	Door	CAT1814
4	Terminal Cover	CKX-003	39	Spring	CBH1838
5	Case	CNB2074	40	Screw	IMS20P030FZK
6	Holder	CNC6798	41	Case Assy	CXB1063
7	Screw	BSZ30P055FUC	42	Detach Grille Assy	See Contrast table(2)
8	Screw	BSZ30P060FMC	43	Screw	BPZ20P120FZK
9	Screw	BSZ30P100FMC	44	Button(≡)	CAC4867
10	Holder	CNC5704	45	Button(◀◀)	CAC4868
11	Cushion	CNM4870	46	Button(▶▶)	CAC4869
12	Insulator	CNM5025	47	Button(⌂)	See Contrast table(2)
13	Tuner Amp Unit	See Contrast table(2)	48	Button	CAC5306
14	Screw	BSZ26P080FMC	49	Button(1-6)	See Contrast table(2)
15	Fuse(10A)	CEK1136	50	Button	See Contrast table(2)
16	FM/AM Tuner Unit	CWE1466	51	Button(DOWN,UP)	See Contrast table(2)
17	Holder	CNC6554	52	Button	See Contrast table(2)
18	Plug(CN601)	CKM1270	53	Spring	CBH1836
19	Connector(CN604)	CKS3362	54	Spring	CBH2103
20	Connector(CN603)	CKS3581	55	Spacer	CNM5319
21	Antenna Jack(CN301)	CKX1056	56	Cover	See Contrast table(2)
22	Panel	CNB2246	57	Keyboard Unit	See Contrast table(2)
23	Holder	CNC5399	58	LCD(LCD901)	CAW1391
24	Heat Sink	CNC6217	59	Connector(CN901)	CKS3580
25	Holder	CNC6372	60	Holder	CNC6846
26	Holder	CNC6845	61	Reflector	CNM5542
27	Chassis Unit	CXA9851	62	Connector	CNV4763
28	Button	CAC4836	63	Lighting Conductor	CNV5074
29	Spring	CBH1834	64	Grille Assy	See Contrast table(2)
30	Spring	CBH1835	65	Transistor(Q801)	2SD2037
31	Spring	CBH1996	66	Cassette Mechanism Assy	EXK3458
32	Bracket	CNC6135	67	Screw	CBA1304
33	Bracket	CNC6791	68	Handle	CNC5395
34	Arm	CNV4692	69	Bush	CNV3930
35	Arm	CNV4693	70	IC(IC501)	HA13155
			71	Spacer	CNM5739

KEH-2700R,2730R

(2) CONTRAST TABLE

KEH-2700R/X1M/EW and KEH-2730R/X1M/EW are constructed the same except for the following:

Mark No.	Symbol and Description	Part No.	
		KEH-2700R/X1M/EW	KEH-2730R/X1M/EW
13	Tuner Amp Unit	CWM5520	CWM5521
37	Panel Unit	CXA9847	CXA9848
42	Detach Grille Assy	CXB1724	CXB1725
47	Button()	CAC4870	CAC4993
49	Button(1-6)	CAC5307	CAC5324
50	Button	CAC5310	CAC5308
51	Button(DOWN,UP)	CAC5321	CAC5320
52	Button	CAC5323	CAC5322
56	Cover	CNS4627	CNS4628
57	Keyboard Unit	CWM5529	CWM5530
64	Grille Assy	CXB2318	CXB2319

2.2 CASSETTE MECHANISM ASSY

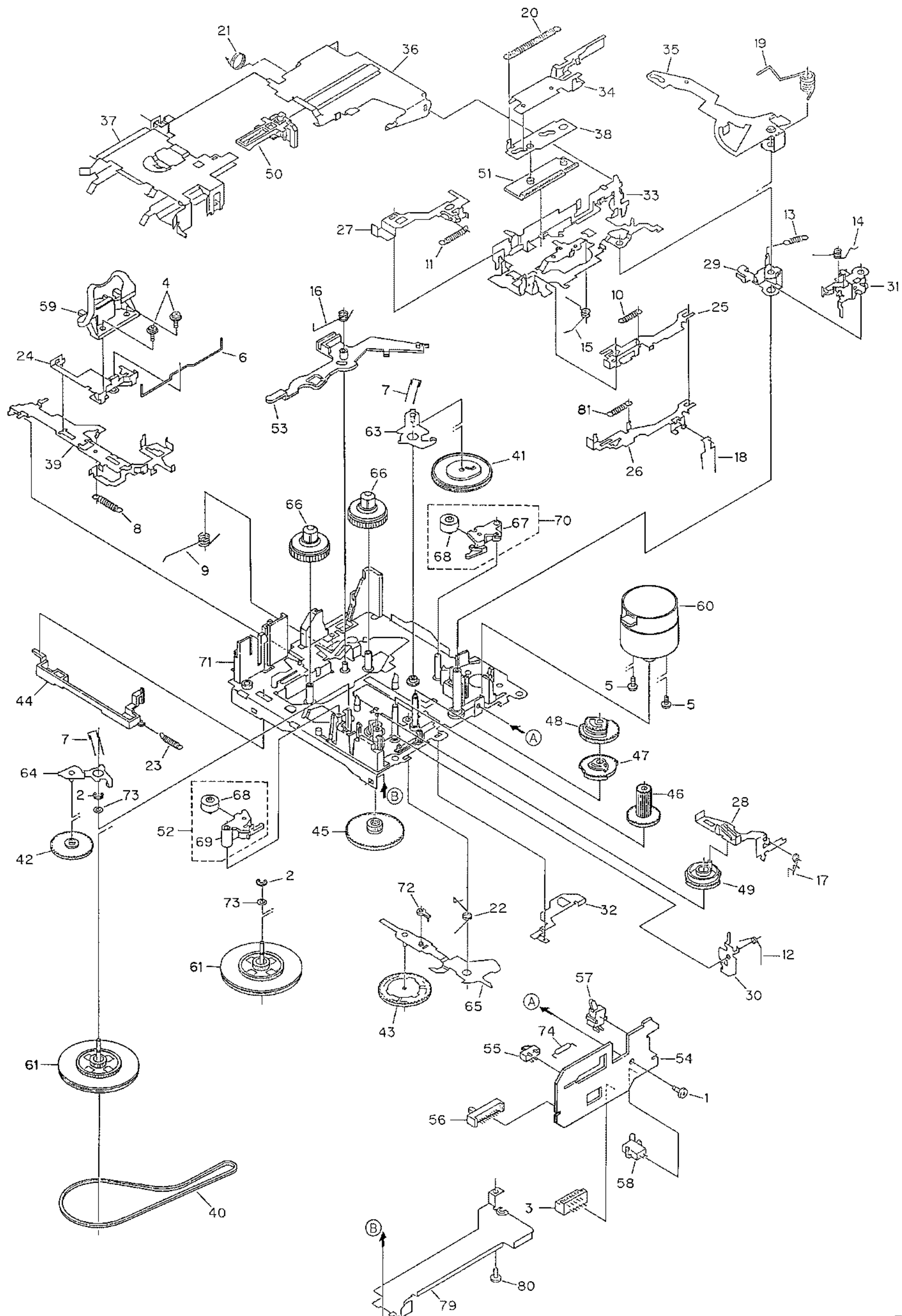


Fig. 3

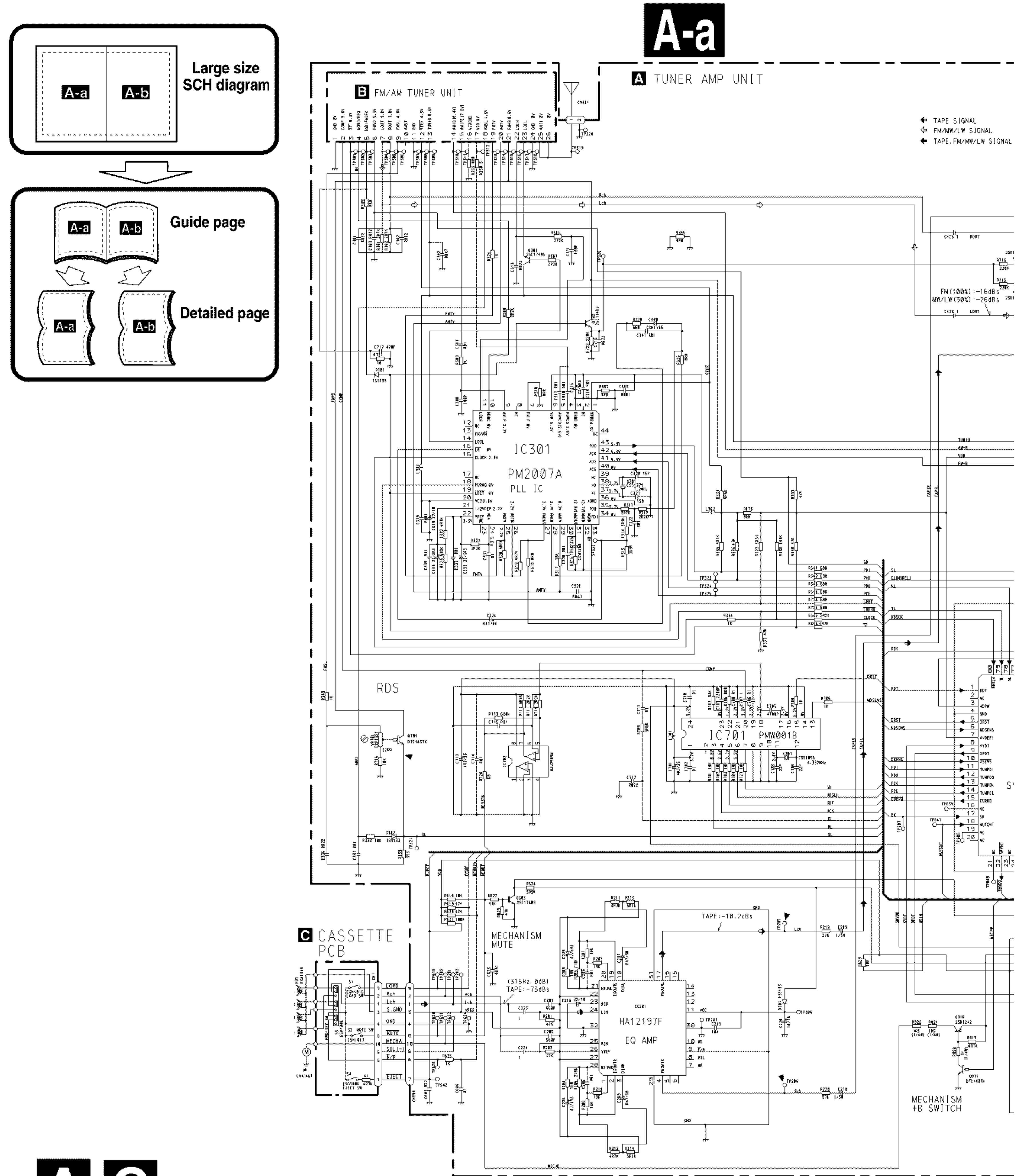
● CASSETTE MECHANISM ASSY SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ23P050FMC	41	Gear	ENV1504
2	Washer	CBG1003	42	Gear	ENV1470
3	Connector(CN1)	CKS2829	43	Gear	ENV1517
4	Screw(M2x5)	EBA1038	44	Lever	ENV1472
5	Screw(M2x2.5)	EBA1037	45	Gear	ENV1510
6	Spring	EBH1554	46	Gear	ENV1475
7	Spring	EBH1555	47	Gear	ENV1512
8	Spring	EBH1556	48	Gear	ENV1513
9	Spring	EBH1557	49	Gear	ENV1502
10	Spring	EBH1591	50	Lever	ENV1480
11	Spring	EBH1559	51	Lever	ENV1487
12	Spring	EBH1593	52	Pinch Holder Unit	EXA1516
13	Spring	EBH1561	53	Arm	ENV1489
14	Spring	EBH1562	* 54	PCB	ENP1161
15	Spring	EBH1563	55	Switch(Eject)(S4)	ESG1006
16	Spring	EBH1590	56	Switch(FWD)(REV)(S3)	ESH1006
17	Spring	EBH1565	57	Switch(Load)(S1)	ESN1016
18	Spring	EBH1566	58	Switch(Mute)(S2)	ESN1017
19	Spring	EBH1567	59	Head Assy(HD1)	EXA1466
20	Spring	EBH1568	60	Motor Unit(M1)	EXA1467
21	Spring	EBH1569	61	Flywheel Unit	EXA1468
22	Spring	EBH1571	62		
23	Spring	EBH1579	63	Arm Unit	EXA1447
24	Head Base	ENC1475	64	Arm Unit	EXA1448
25	Lever	ENC1429	65	Arm Unit	EXA1449
26	Lever	ENC1430	66	Reel Unit	EXA1450
27	Lever	ENC1431	67	Pinch Holder	ENV1466
28	Lever	ENC1432	68	Pinch Roller	ENV1518
29	Arm	ENC1433	69	Pinch Holder	ENV1467
30	Arm	ENC1434	70	Pinch Holder Unit	EXA1515
31	Arm	ENC1480	71	Chassis Unit	EXA1498
32	Arm	ENC1476	72	Service Arm	EXX1048
33	Bracket	ENC1477	73	Washer	HBF-179
34	Lever	ENC1483	74	Resistor(R1)	RD1/4HM472J
35	Arm	ENC1439	75-78		
36	Frame	ENC1440	79	Cover	ENC1452
37	Holder	ENC1441	80	Screw	BSZ23P050FMC
38	Lever	ENC1446	81	Spring	EBH1592
39	Lever	ENC1478			
40	Belt	ENT1027			

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to “EXPLODED VIEWS AND PARTS LIST” or “ELECTRICAL PARTS LIST”.



A

B

C

D

A-b

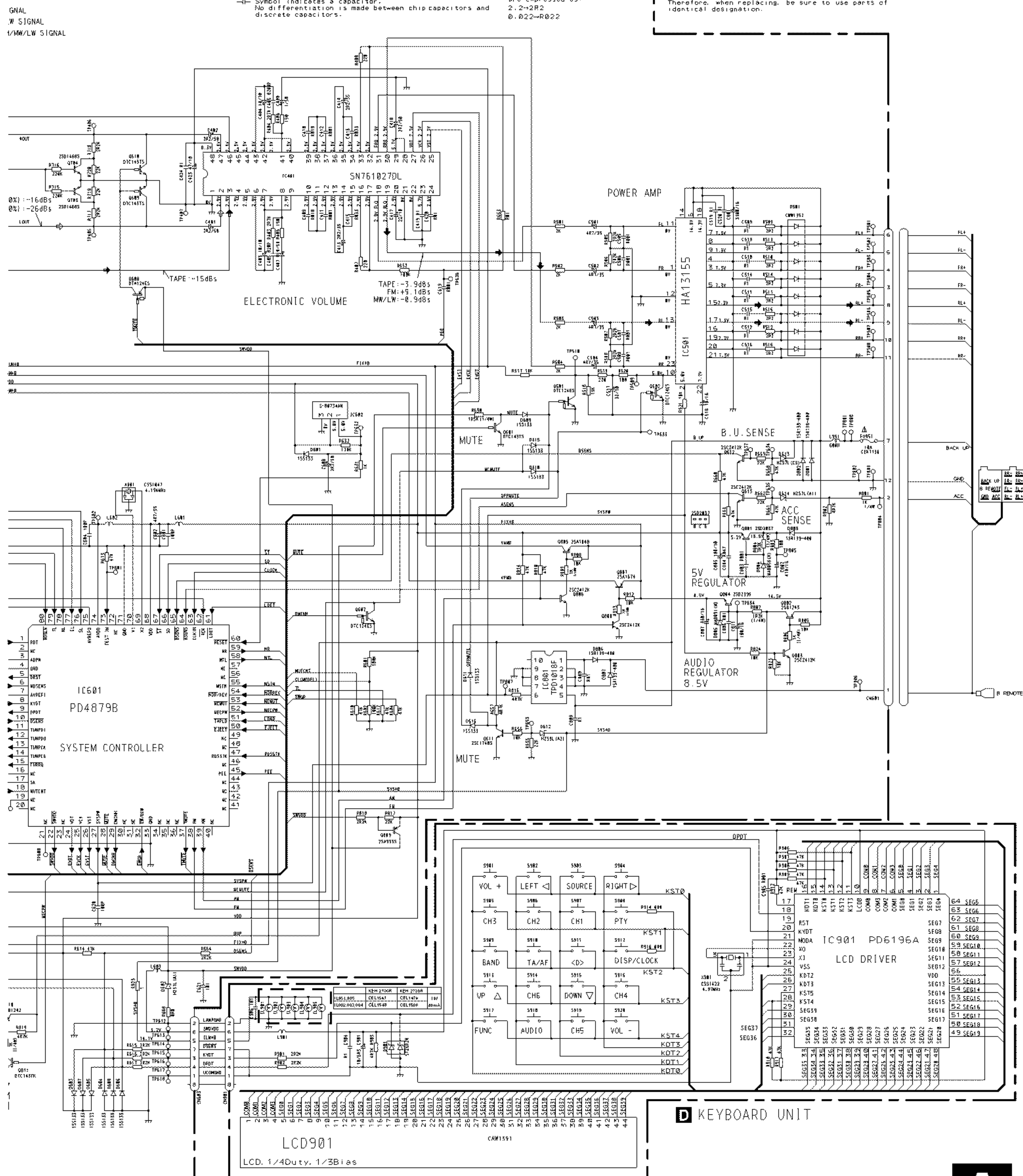
NOTE

NOTE
 Symbol indicates a resistor.
 No differentiation is made
 discrete resistors.

- H Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

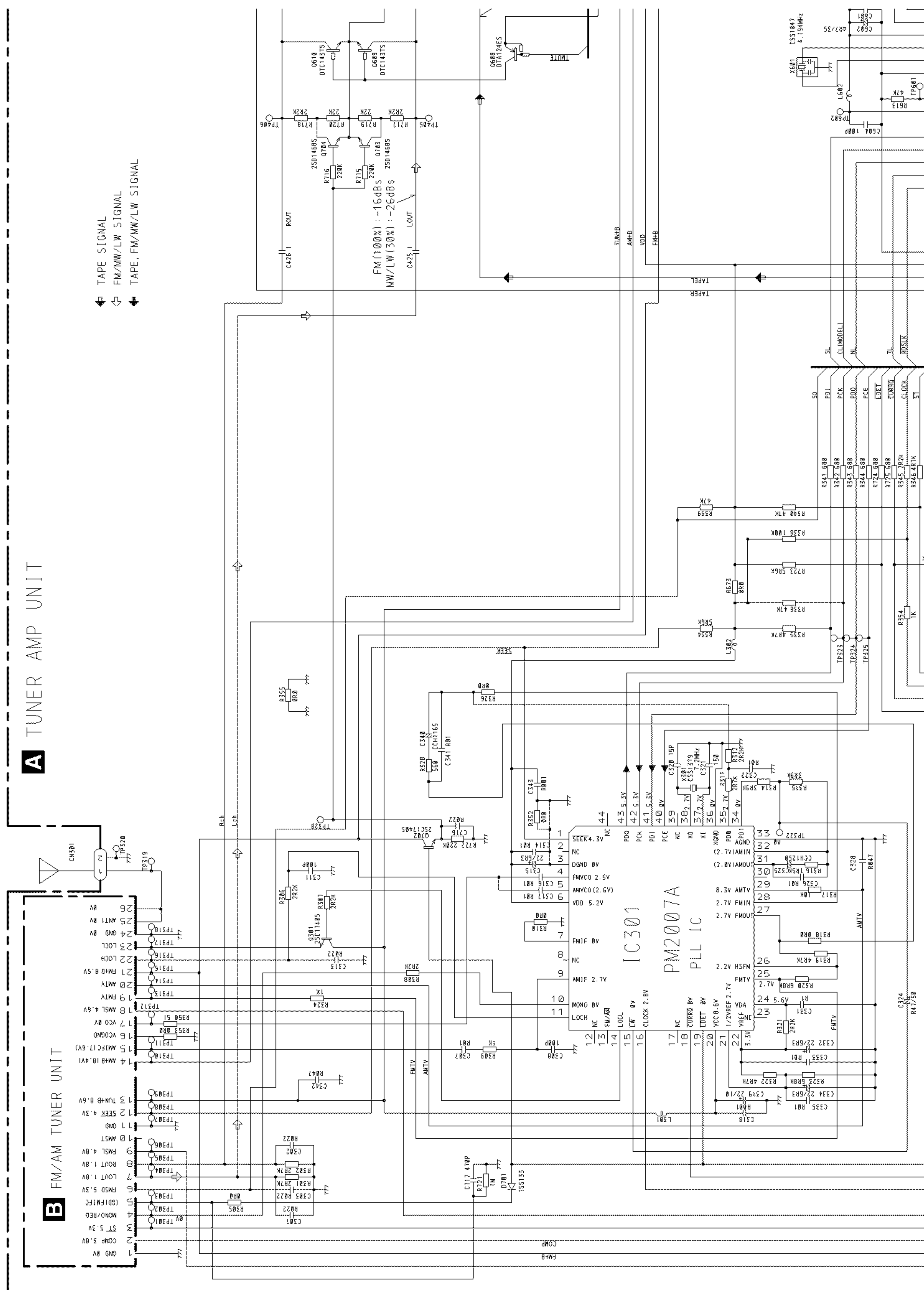
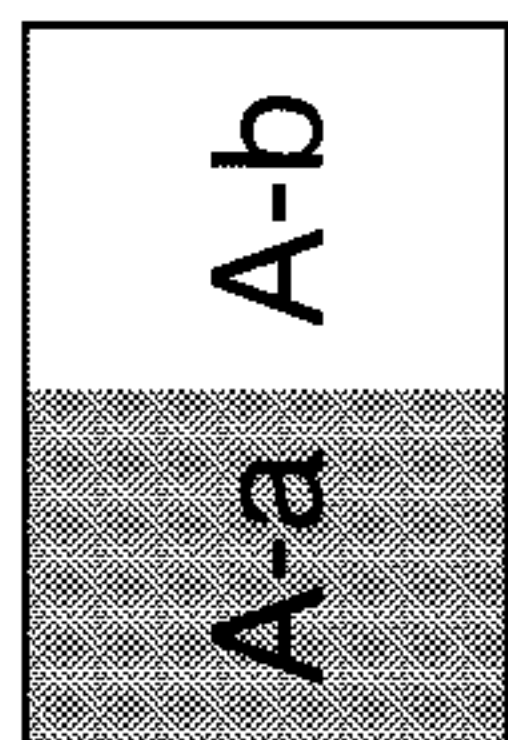
The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



D KEYBOARD UNIT

Fig. 4

A D 11



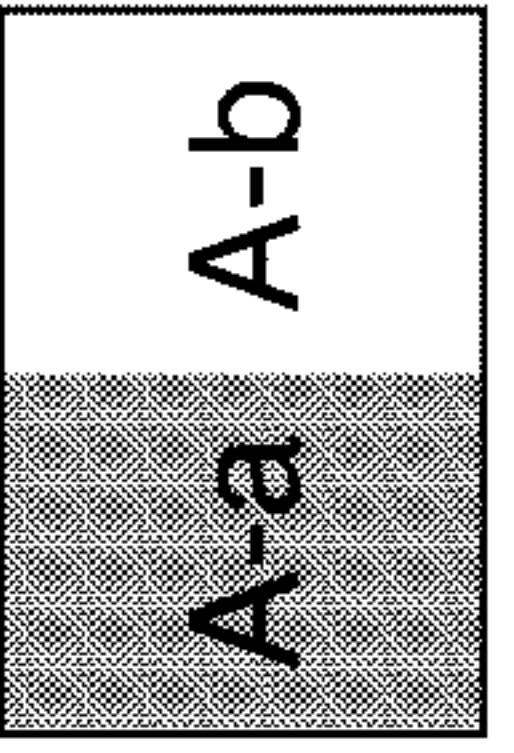
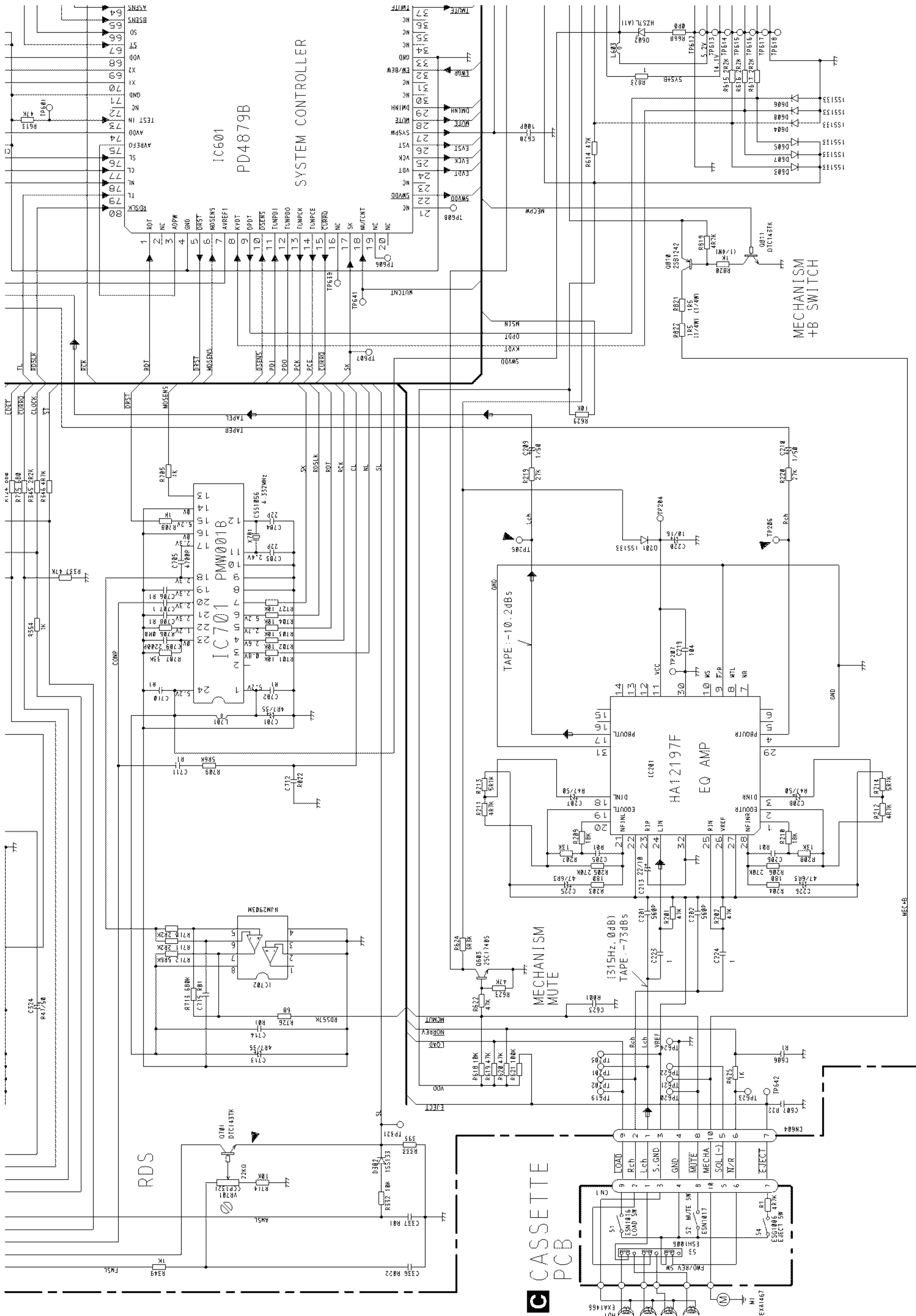
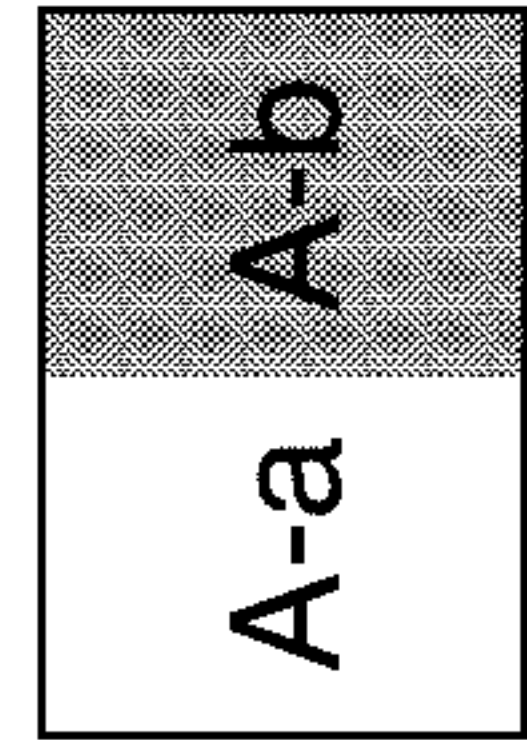


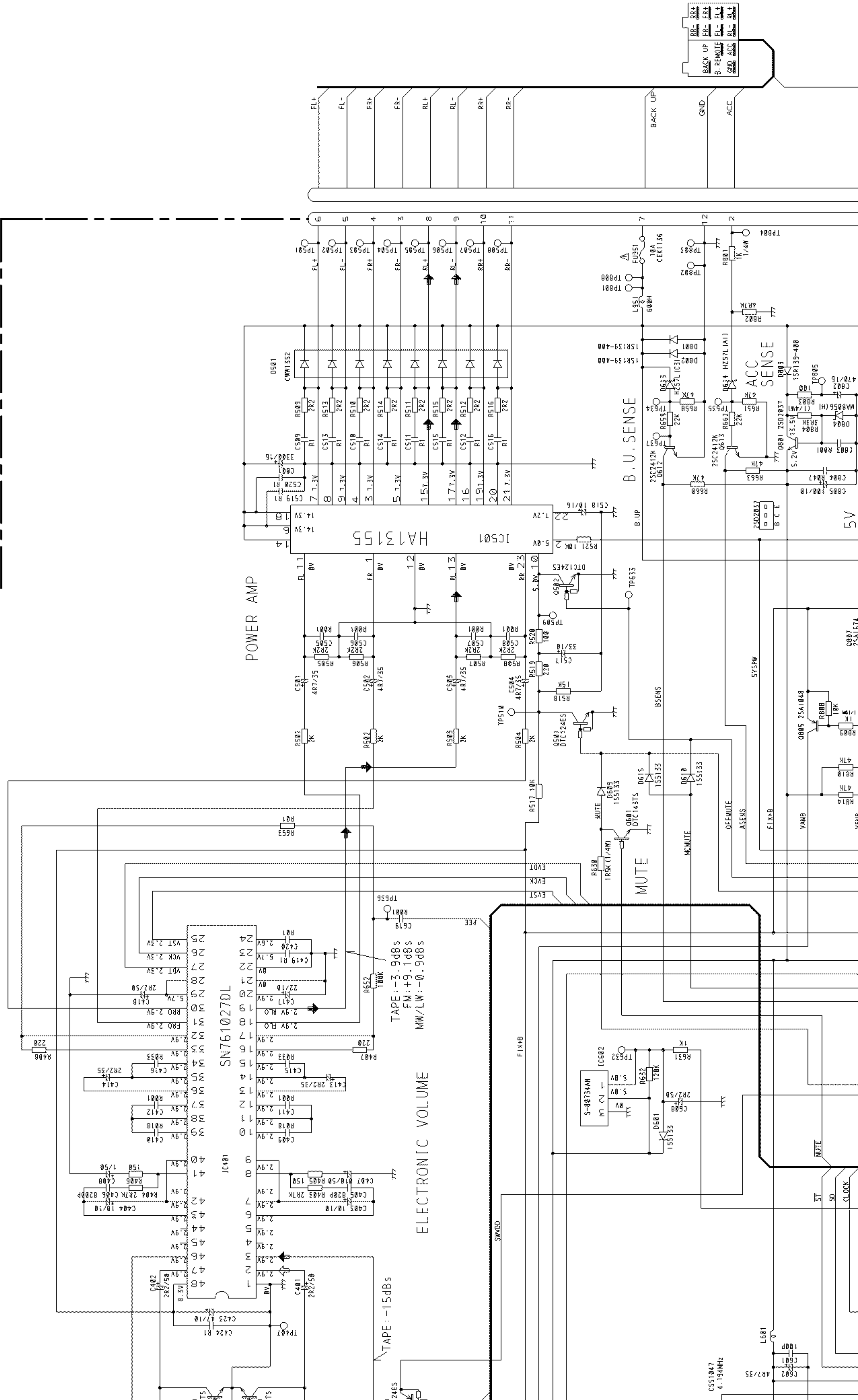
Fig. 5

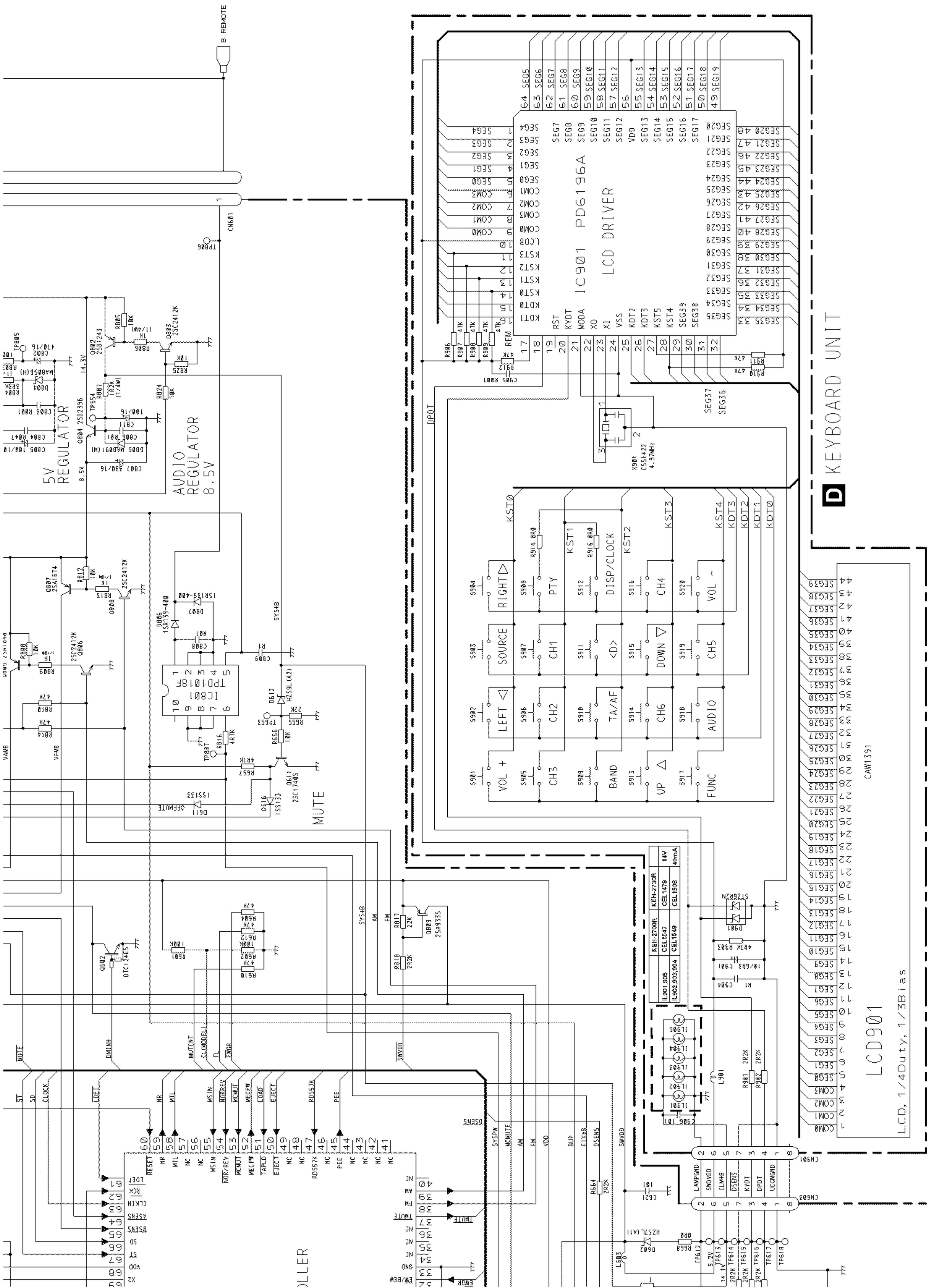


NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2-2R2
0.022-R022

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.





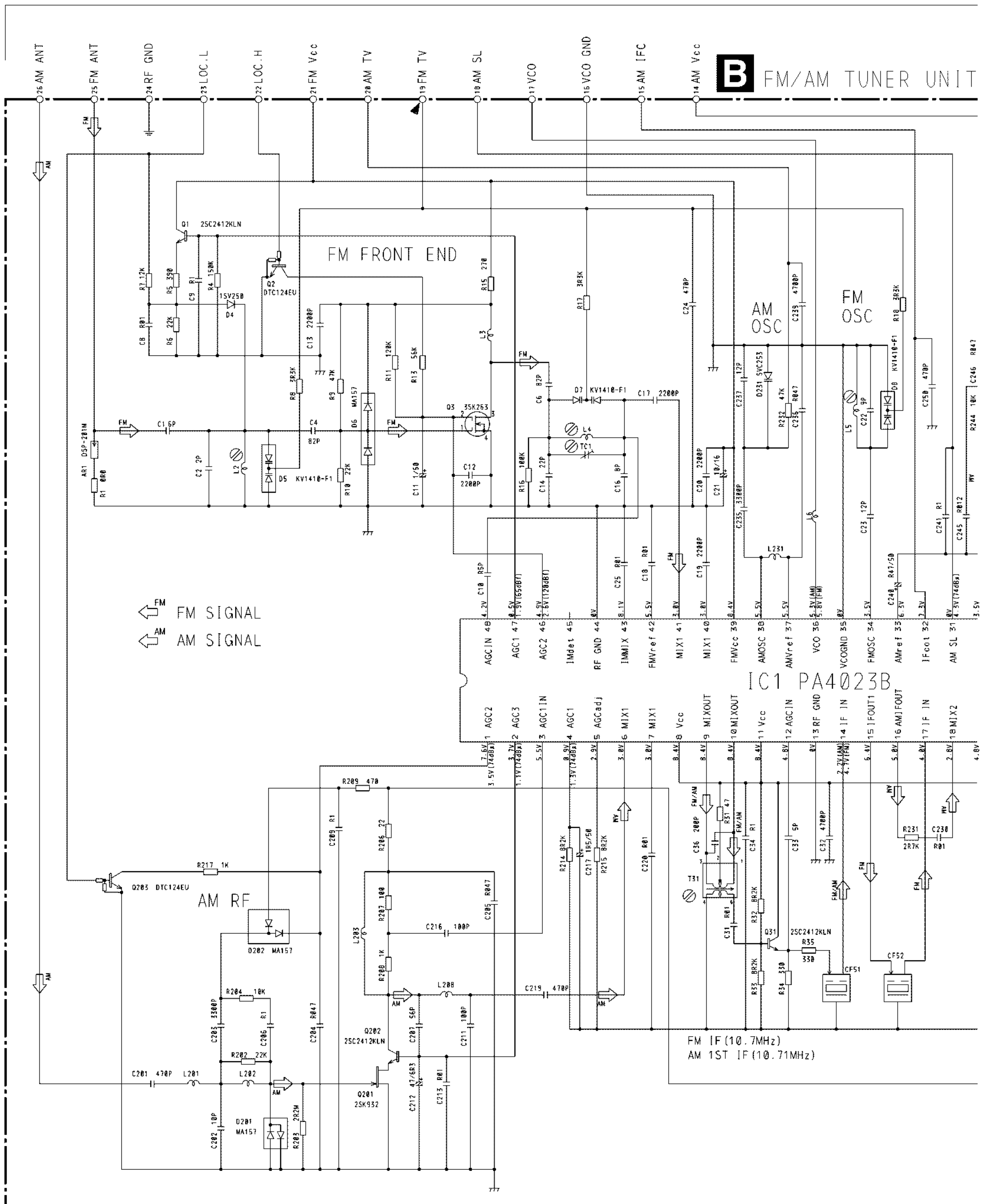
A-a A-b

Fig. 6

D A-b

3.2 FM/AM TUNER UNIT

B FM/AM TUNER UNIT



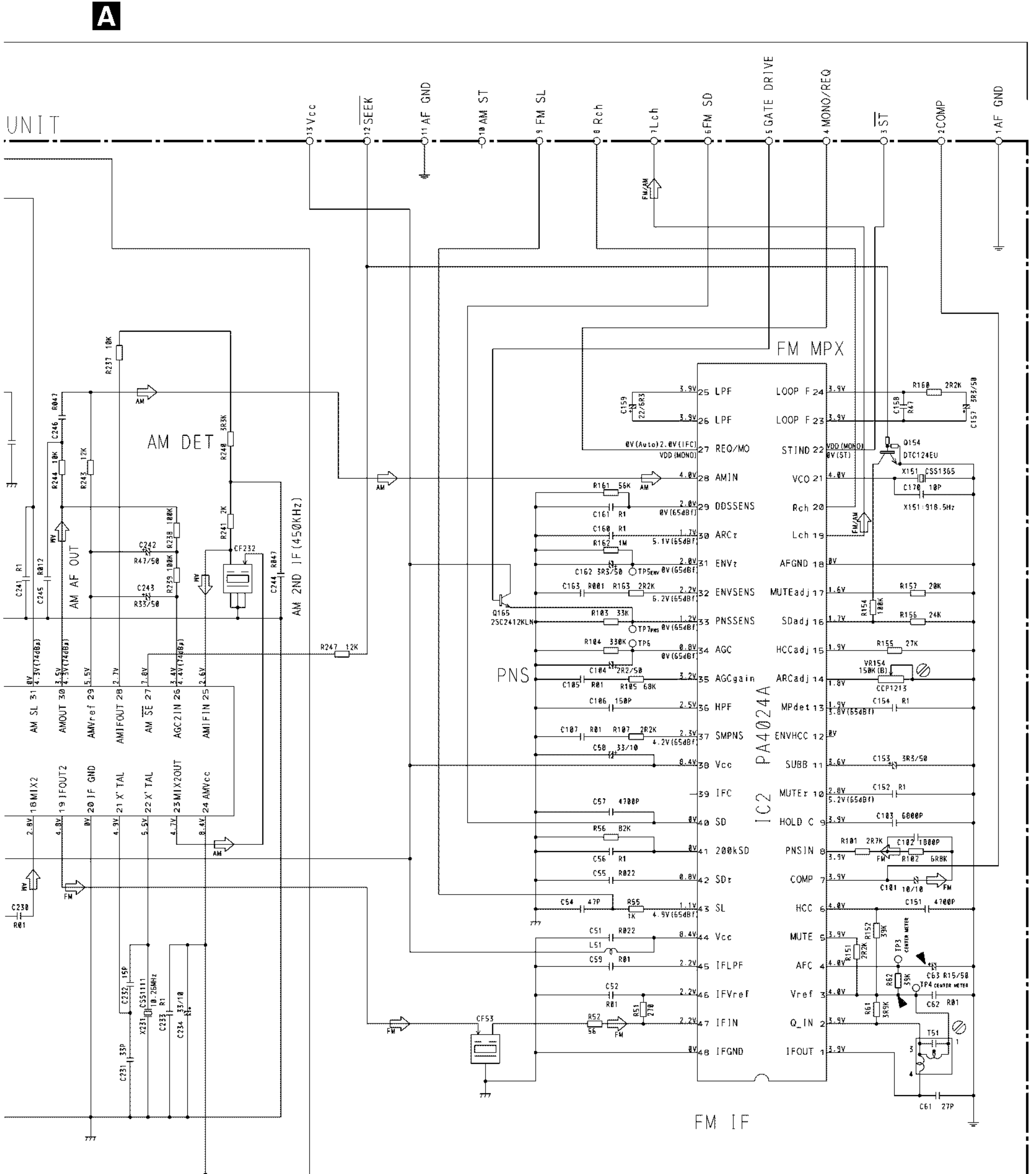


Fig. 7

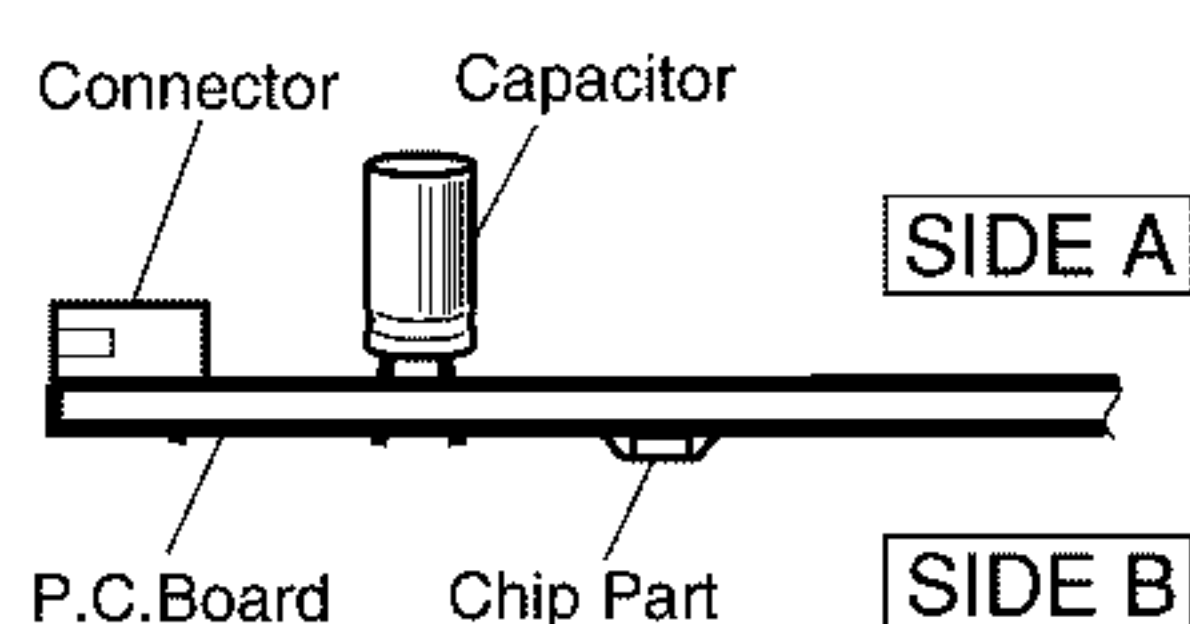
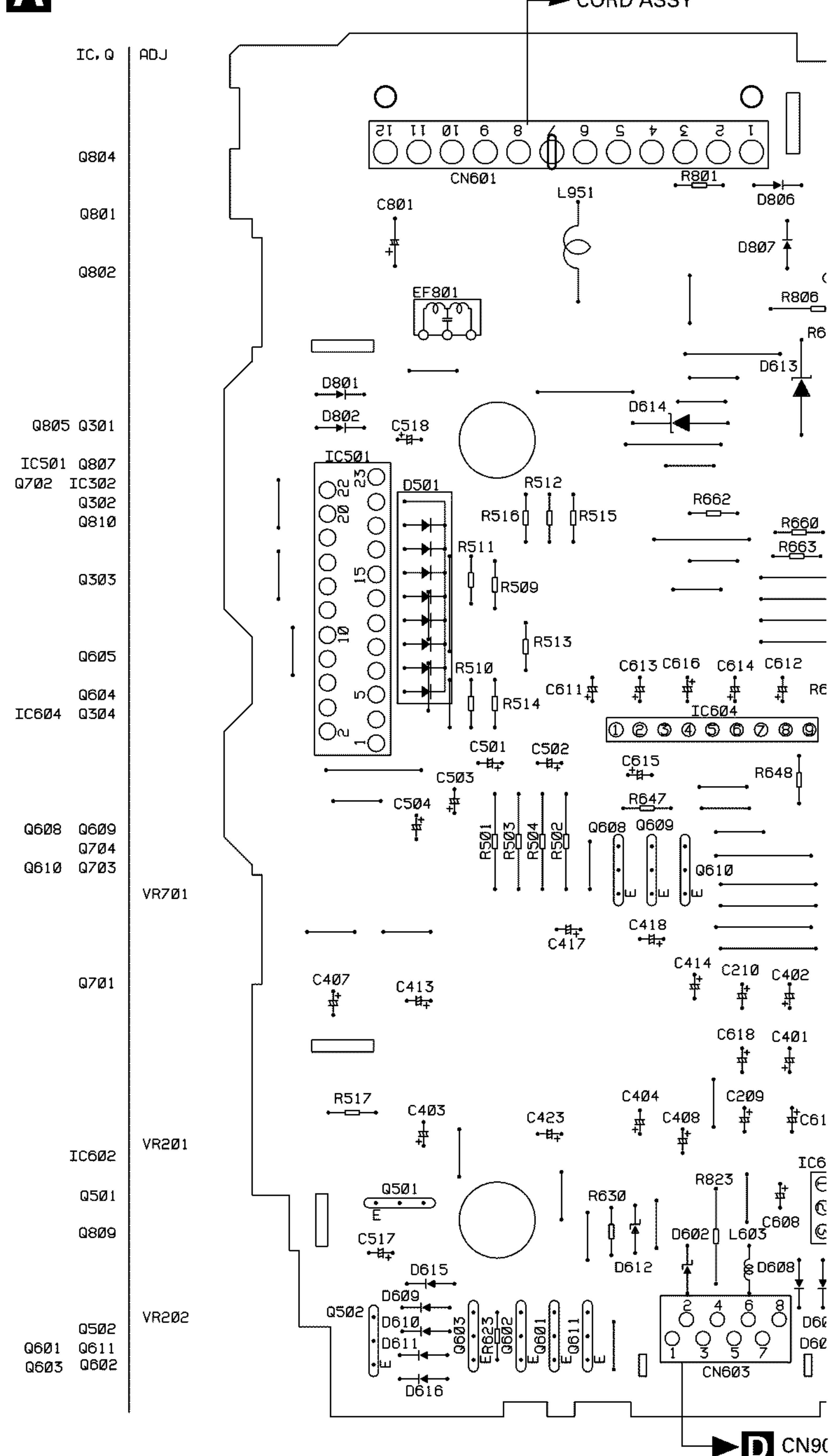
4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

- ## 2. Viewpoint of PCB diagrams

**A TUNER AMP UNIT**

SIDE A

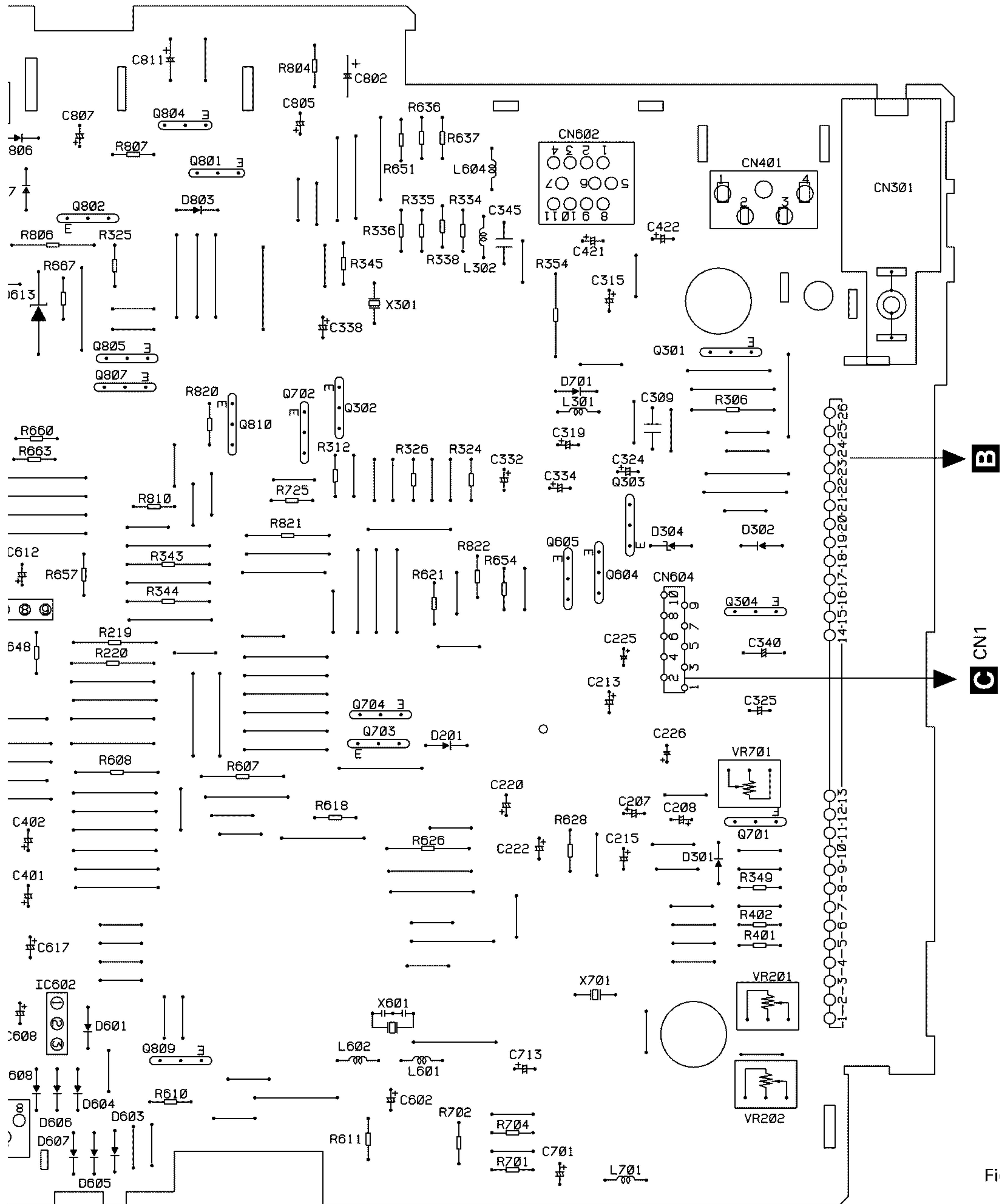
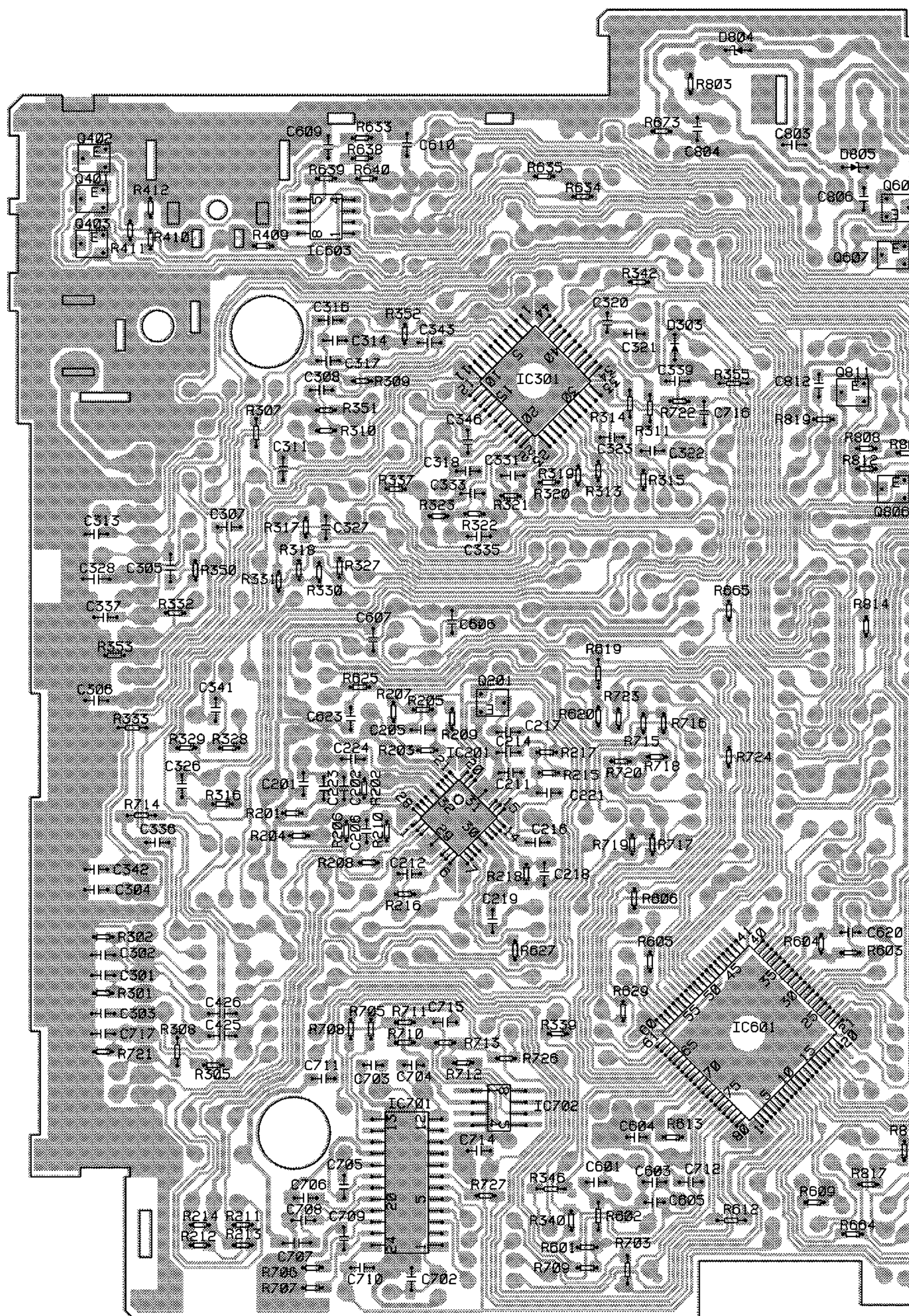


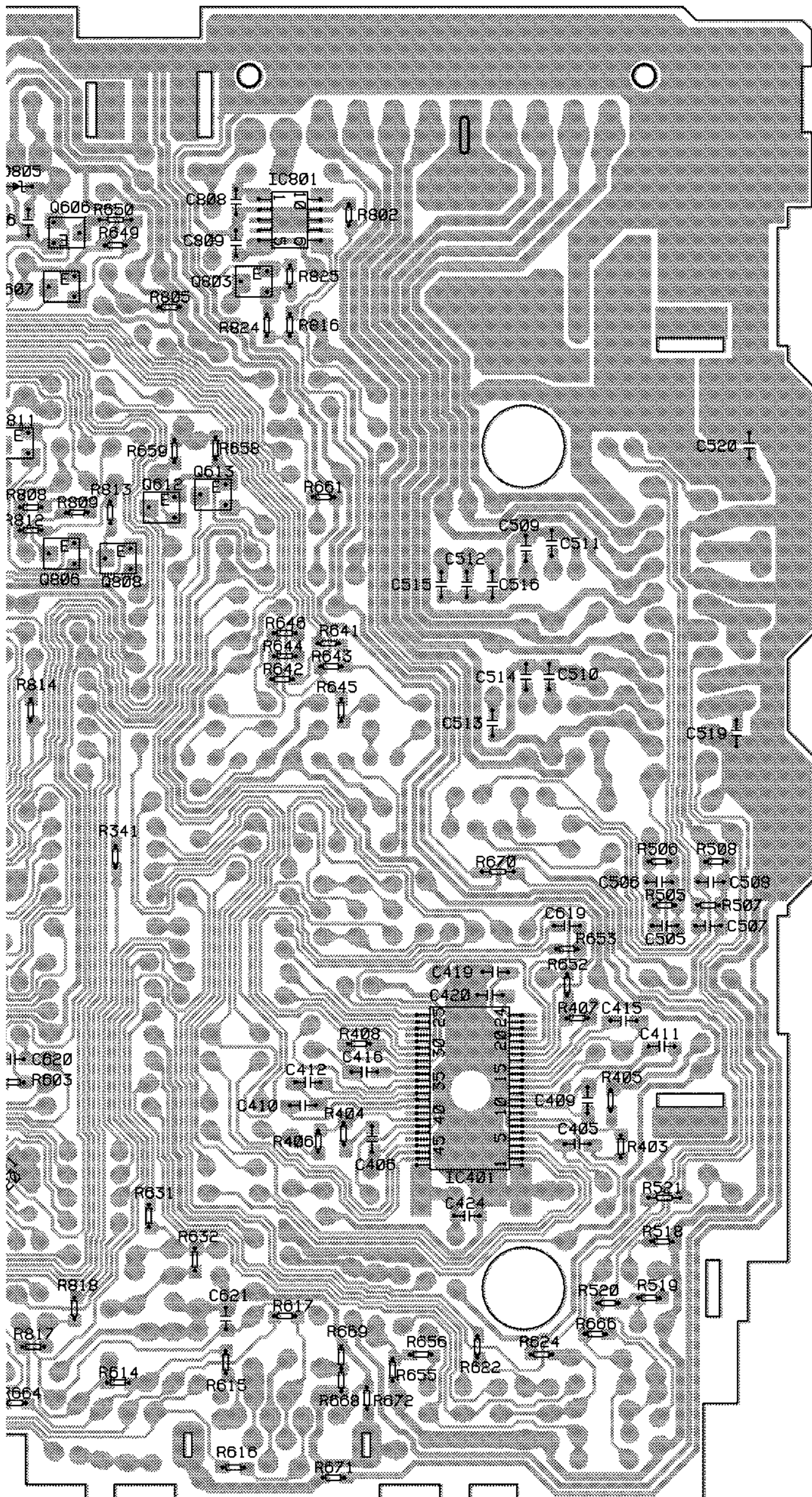
Fig. 8

CN901

A

A TUNER AMP UNIT





IC, Q

SIDE B

Q402

Q401 Q606
IC801
Q403Q607 Q803
IC603Q811
IC301Q613
Q612Q806
Q808

Q201

IC201

IC401
IC601IC701
IC702

Fig. 9

4.2 FM/AM TUNER UNIT

SIDE A

B FM/AM TUNER UNIT

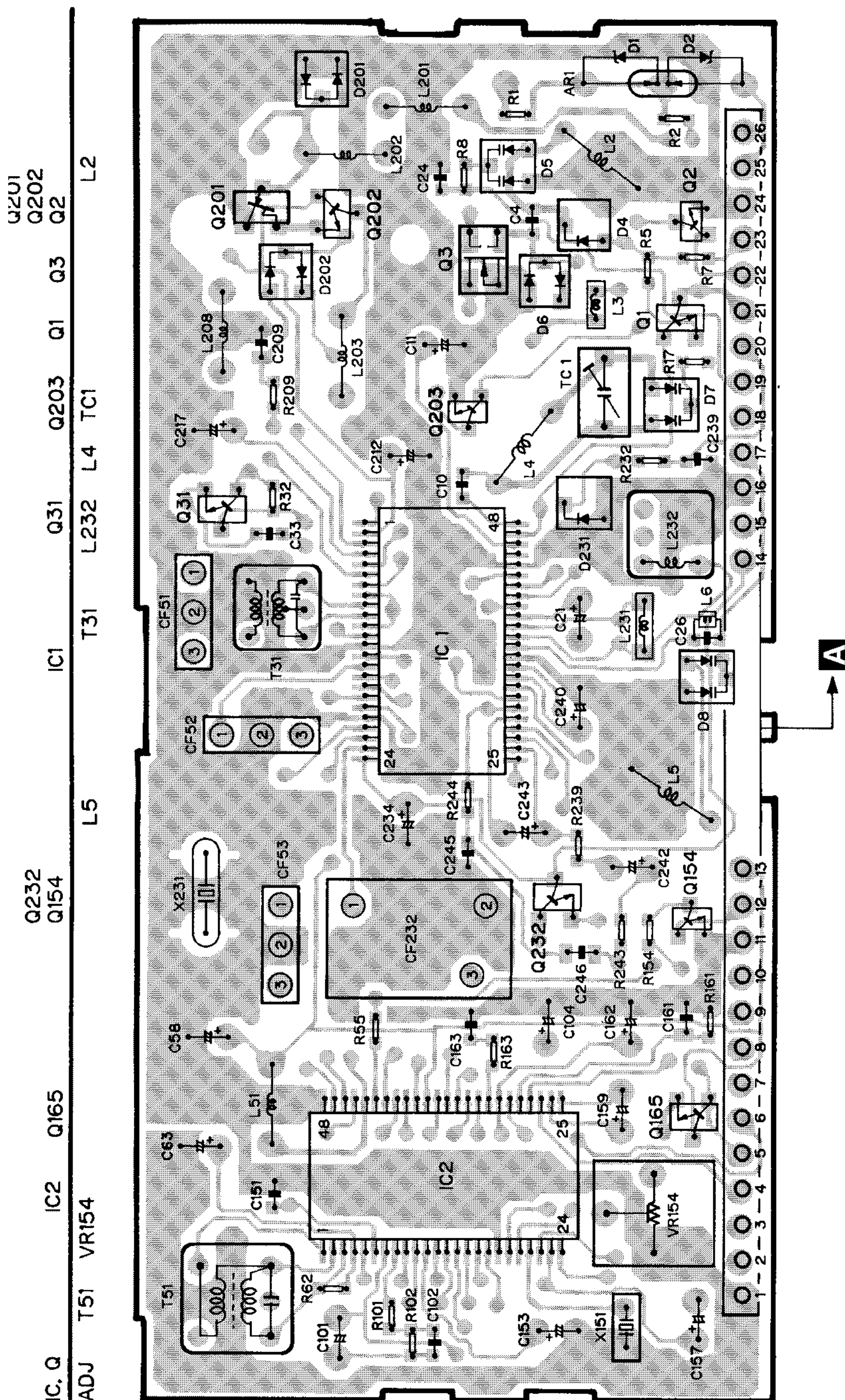


Fig. 10

SIDE B

FM/AM TUNER UNIT

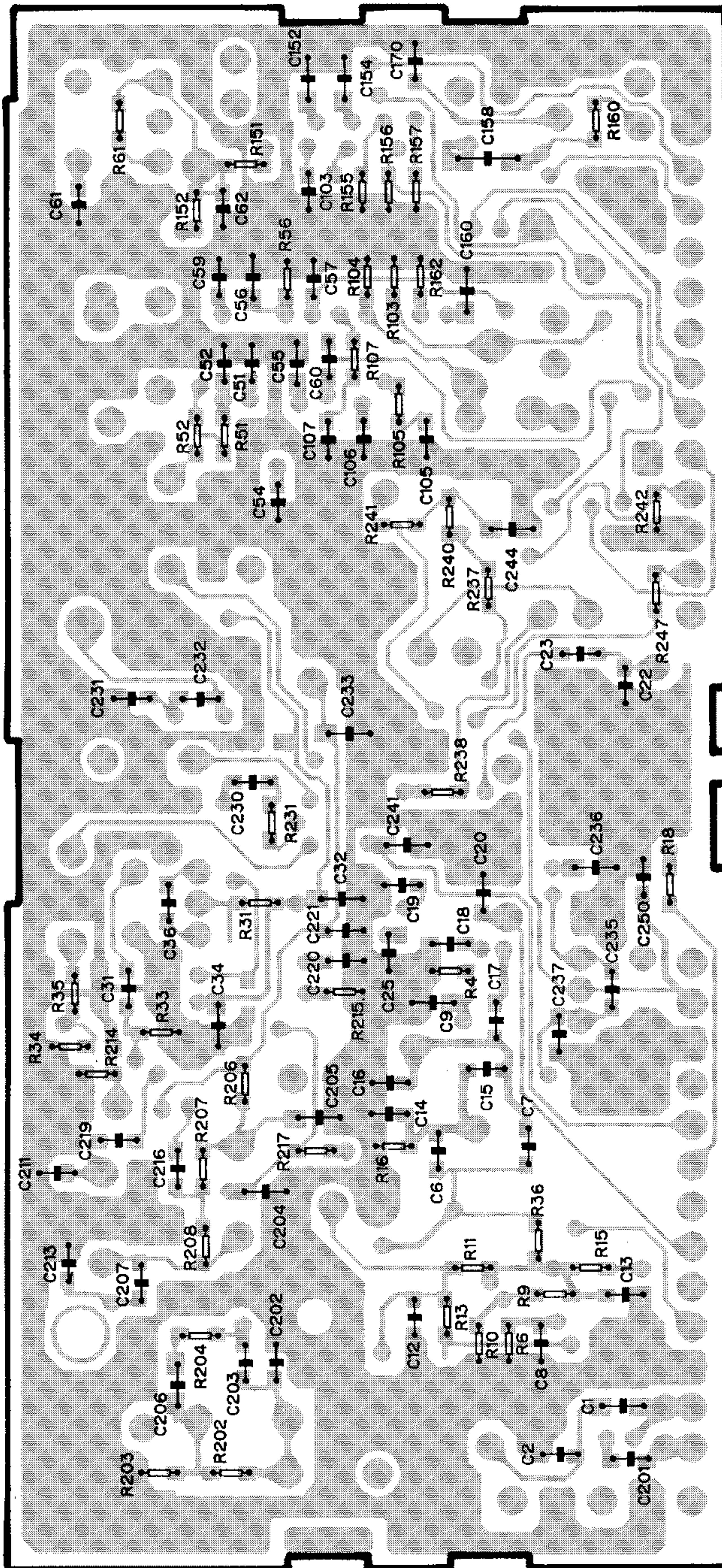


Fig. 11

4.3 KEYBOARD UNIT

SIDE A

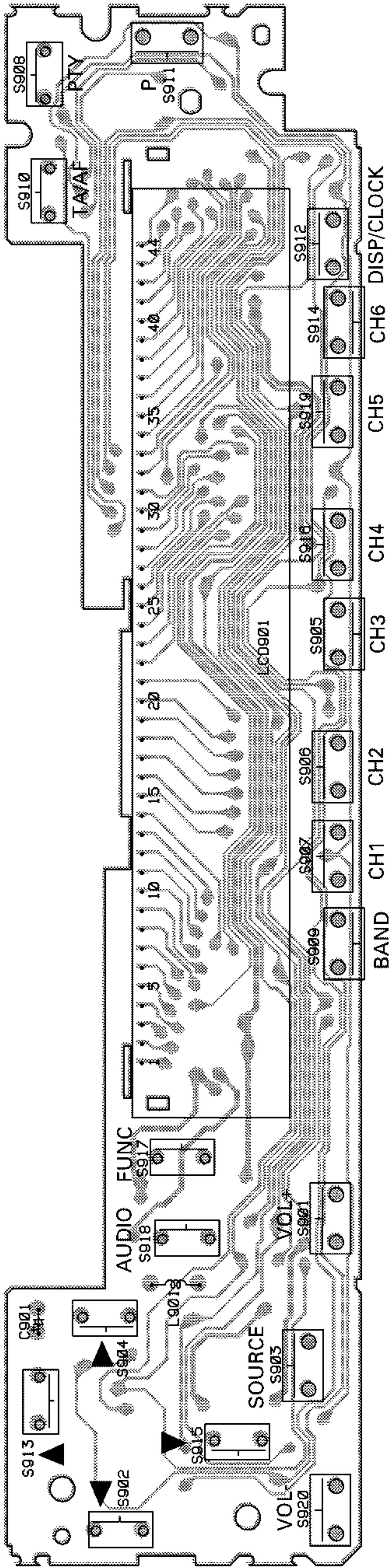


Fig. 12

SIDE B

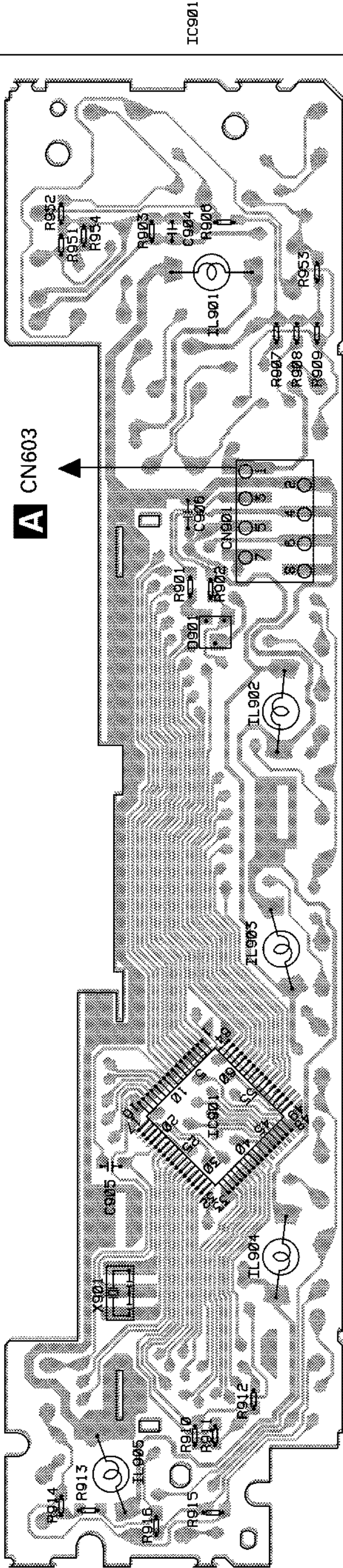


Fig. 13

4.4 CASSETTE PCB

C CASSETTE PCB

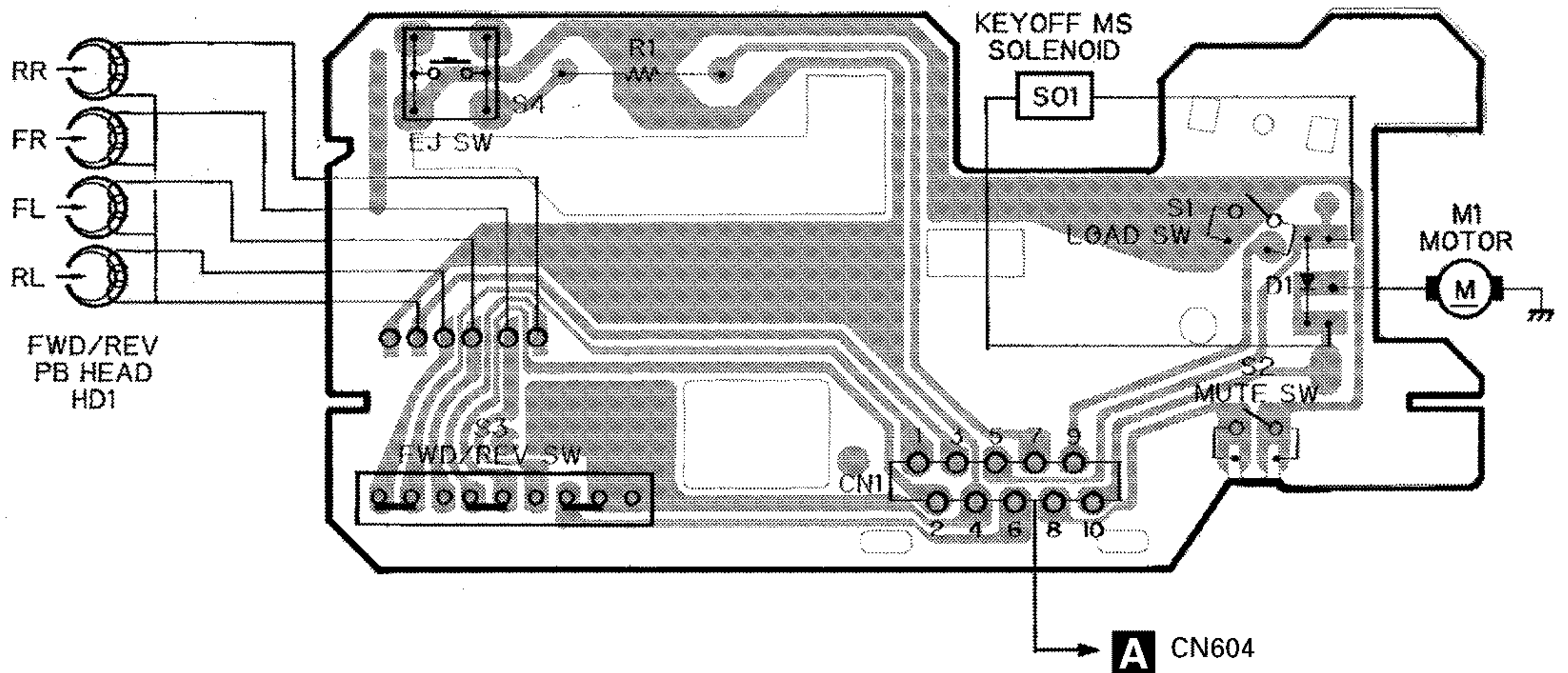


Fig. 14

ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor
RS1/○S○○○○J,RS1/○○S○○○○J
Chip Capacitor (except for CQS.....)
CKS....., CCS....., CSZS.....

=====Circuit Symbol and No.===Part Name		Part No.	=====Circuit Symbol and No.===Part Name		Part No.
B Unit Number : CWE1466 Unit Name : FM/AM Tuner Unit			R	8	RS1/16S332J
MISCELLANEOUS			R	9	RS1/16S473J
IC	1	IC	R	10	RS1/16S223J
IC	2	IC	R	11	RS1/16S124J
Q	1	Transistor	R	13	RS1/16S563J
Q	2	Transistor	R	15	RS1/16S271J
Q	3	FET	R	16	RS1/16S104J
			R	17	RS1/16S332J
			R	18	RS1/16S332J
			R	31	RS1/16S470J
Q	31	Transistor			
Q	154	Transistor	R	32	RS1/16S822J
Q	165	Transistor	R	33	RS1/16S822J
Q	201	FET	R	34	RS1/16S331J
Q	202	Transistor	R	35	RS1/16S331J
			R	51	RS1/16S271J
Q	203	Transistor			
D	4	Diode	R	52	RS1/16S560J
D	5	Diode	R	55	RS1/16S102J
D	6	Diode	R	56	RS1/16S823J
D	7	Diode	R	61	RS1/16S392J
			R	62	RS1/16S393J
D	8	Diode			
D	201	Diode	R	101	RS1/16S272J
D	202	Diode	R	102	RS1/16S682J
D	231	Diode	R	103	RS1/16S333J
L	2	Coil	R	104	RS1/16S334J
			R	105	RS1/16S683J
L	3	Inductor			
L	4	Coil	R	107	RS1/16S222J
L	5	Coil	R	151	RS1/16S222J
L	6	Inductor	R	152	RS1/16S393J
L	51	Ferri-Inductor	R	154	RS1/16S104J
			R	155	RS1/16S273J
L	201	Ferri-Inductor			
L	202	Ferri-Inductor	R	156	RS1/16S243J
L	203	Inductor	R	157	RS1/16S203J
L	208	Inductor	R	160	RS1/16S222J
L	231	Inductor	R	161	RS1/16S563J
			R	162	RS1/16S105J
T	31	Coil			
T	51	Coil	R	163	RS1/16S222J
TC	1	Capacitor	R	202	RS1/16S223J
CF	51	Ceramic Filter	R	203	RS1/16S225J
CF	52	Ceramic Filter	R	204	RS1/16S103J
			R	206	RS1/16S220J
CF	53	Ceramic Filter			
CF	232	Ceramic Filter	R	207	RS1/16S101J
X	151	Resonator 920.5kHz	R	208	RS1/16S102J
X	231	Crystal Resonator 10.26MHz	R	209	RS1/16S471J
VR	154	Semi-fixed 150kΩ(B)	R	214	RS1/16S822J
			R	215	RS1/16S822J
AR	1	Capacitor with Discharge Gap	R	217	RS1/16S102J
			R	231	RS1/16S272J
RESISTORS			R	232	RS1/16S473J
R	1	RS1/16S0R0J	R	237	RS1/16S103J
R	4	RS1/16S154J	R	238	RS1/16S104J
R	5	RS1/16S391J			
R	6	RS1/16S223J	R	239	RS1/16S104J
R	7	RS1/16S123J	R	240	RS1/16S332J
			R	241	RS1/16S202J
			R	243	RS1/16S123J
			R	244	RS1/16S103J

====Circuit Symbol and No.==Part Name	Part No.
R 247	RS1/16S123J
CAPACITORS	
C 1	CCSQCH6R0D50
C 2	CCSRCK2R0C50
C 4	CCSRCH820J50
C 6	CCSRCH820J50
C 8	CKSRYB103K25
C 9	CKSQYB104K16
C 10	CCSRCKR50C50
C 11	CEJA1R0M50
C 12	CKSRYB222K50
C 13	CKSRYB222K50
C 14	CCSRCH220J50
C 16	CCSRCH8R0D50
C 17	CKSRYB222K50
C 18	CKSRYB103K25
C 19	CKSRYB222K50
C 20	CKSRYB222K50
C 21	CEJA100M16
C 22	CCSRTH9R0D50
C 23	CCSRTH120J50
C 24	CCSRCH471J50
C 25	CKSRYB103K25
C 31	CKSRYB103K25
C 32	CKSQYB472K50
C 33	CCSRCH5R0C50
C 34	CKSQYB104K16
C 36	CCSRRH201J50
C 51	CKSRYB223K25
C 52	CKSRYB103K25
C 54	CCSRCH470J50
C 55	CKSQYB223K25
C 56	CKSQYB104K16
C 57	CKSRYB472K50
C 58	CEJA330M10
C 59	CKSRYB103K25
C 61	CCSRCH270J50
C 62	CKSRYB103K25
C 63	CEJAR15M50
C 101	CEJANP100M10
C 102	CKSRYB182K50
C 103	CKSRYB682K25
C 104	CEJA2R2M50
C 105	CKSRYB103K25
C 106	CCSRCH151J50
C 107	CKSRYB103K25
C 151	CKSRYB472K50
C 152	CKSQYB104K16
C 153	CEJA3R3M50
C 154	CKSQYB104K16
C 157	CEJA3R3M50
C 158	CKSYB474K16
C 159	CEJA220M6R3
C 160	CKSQYB104K16
C 161	CKSQYB104K16
C 162	CEJA3R3M50
C 163	CKSRYB102K50
C 170	CCSRCH100D50
C 201	CCSRCH471J50
C 202	CCSRCH100D50
C 203	CKSRYB332K50
C 204	CKSQYB473K16
C 205	CKSQYB473K16
C 206	CKSQYB104K16
C 207	CCSRCH560J50
C 209	CKSQYB104K16
C 211	CCSRCH101J50

====Circuit Symbol and No.==Part Name	Part No.
C 212	CEJA470M6R3
C 213	CKSRYB103K25
C 216	CCSRCH101J50
C 217	CEJA1R5M50
C 219	CCSRCH471J50
C 220	CKSRYB103K25
C 230	CKSRYB103K25
C 231	CCSRCH330J50
C 232	CCSRCH150J50
C 233	CKSQYB104K16
C 234	CEJA330M10
C 235	CKSRYB332K50
C 236	CKSQYB473K16
C 237	CCSRCH120J50
C 239	CKSRYB472K50
C 240	CEJAR47M50
C 241	CKSQYB104K16
C 242	CEJAR47M50
C 243	CEJAR33M50
C 244	CKSQYB473K16
C 245	CKSRYB123K25
C 246	CKSQYB473K16
C 250	CCSRCH471J50



Unit Number: CWM5520(KEH-2700R/X1M/EW)

Unit Number: CWM5521(KEH-2730R/X1M/EW)

Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 201	IC	HA12197F
IC 301	IC	PM2007A
IC 401	IC	SN761027DL
IC 501	IC	HA13155
IC 601	IC	PD4879B
IC 602	IC	S-80734AN
IC 701	IC	PM4006B
IC 702	IC	NJM2903M
IC 801	IC	TPD1018F
Q 301	Transistor	2SC1740S
Q 501	Transistor	DTC124ES
Q 502	Transistor	DTC124ES
Q 601	Transistor	DTC143TS
Q 602	Transistor	DTC124ES
Q 603	Transistor	2SC1740S
Q 608	Transistor	DTA124ES
Q 609	Transistor	DTC143TS
Q 610	Transistor	DTC143TS
Q 611	Transistor	2SC1740S
Q 612	Transistor	2SC2412K
Q 613	Transistor	2SC2412K
Q 701	Transistor	DTC143TS
Q 702	Transistor	2SC1740S
Q 703	Transistor	2SD1468S
Q 704	Transistor	2SD1468S
Q 801	Transistor	2SD2037
Q 802	Transistor	2SB1243
Q 803	Transistor	2SC2412K
Q 804	Transistor	2SD2396
Q 805	Transistor	2SA1048
Q 806	Transistor	2SC2412K
Q 807	Transistor	2SA1674
Q 808	Transistor	2SC2412K
Q 809	Transistor	2SA933S
Q 810	Transistor	2SB1242
Q 811	Transistor	DTC143TK
D 201	Diode	1SS270
D 302	Diode	1SS270
D 501	Compound Parts	CWW1352
D 601	Diode	1SS270

KEH-2700R,2730R

====Circuit Symbol and No.,==Part Name			Part No.	====Circuit Symbol and No.,==Part Name			Part No.
D	602	Diode	HZS7L(A1)	R	318		RS1/10S0R0J
D	603	Diode	1SS270	R	319		RS1/10S472J
D	604	Diode	1SS270	R	320		RS1/10S682J
D	605	Diode	1SS270	R	321		RS1/10S222J
D	606	Diode	1SS270	R	322		RS1/10S472J
D	607	Diode	1SS270	R	323		RS1/10S682J
D	608	Diode	1SS270	R	324		RD1/4PU102J
D	609	Diode	1SS270	R	326		RD1/4PU0R0J
D	610	Diode	1SS270	R	328		RS1/10S561J
D	611	Diode	1SS270	R	332		RS1/10S103J
D	612	Diode	HZS9L(A2)	R	333		RS1/8S393J
D	613	Diode	HZS7L(C3)	R	334		RD1/4PU562J
D	614	Diode	HZS7L(A1)	R	335		RD1/4PU472J
D	615	Diode	1SS270	R	336		RD1/4PU473J
D	616	Diode	1SS270	R	337		RS1/10S473J
D	701	Diode	1SS270	R	338		RD1/4PU104J
D	801	Diode	1SR139-400	R	339		RS1/10S473J
D	802	Diode	1SR139-400	R	340		RS1/10S473J
D	803	Diode	1SR139-400	R	341		RS1/10S681J
D	804	Diode	MA8056(H)	R	342		RS1/10S681J
D	805	Diode	MA8091(M)	R	343		RD1/4PU681J
D	806	Diode	1SR139-400	R	344		RD1/4PU681J
D	807	Diode	1SR139-400	R	345		RD1/4PU222J
L	301	Ferri-Inductor	LAU101K	R	346		RS1/8S472J
L	302	Ferri-Inductor	LAU101K	R	349		RD1/4PU102J
L	601	Ferri-Inductor	LAU101K	R	350		RS1/10S510J
L	602	Ferri-Inductor	LAU101K	R	352		RS1/10S0R0J
L	603	Ferri-Inductor	LAU101K	R	353		RS1/10S0R0J
L	701	Ferri-Inductor	LAU101K	R	354		RD1/4PU102J
L	951	Choke Coil 600H	CTH1168	R	355		RS1/8S0R0J
X	301	Crystal Resonator 7.200MHz	CSS1379	R	403		RS1/10S272J
X	601	Ceramic Resonator 4.194MHz	CSS1047	R	404		RS1/10S272J
X	701	Crystal Resonator 4.332MHz	CSS1056	R	405		RS1/10S151J
VR	701	Semi-fixed 22kΩ(B)	CCP1321	R	406		RS1/10S151J
FU	951	Fuse 10A	CEK1136	R	407		RS1/10S221J
		FM/AM Tuner Unit	CWE1466				
RESISTORS				R	408		RS1/10S221J
R	201		RS1/10S473J	R	501		RD1/4PU202J
R	202		RS1/10S473J	R	502		RD1/4PU202J
R	203		RS1/10S181J	R	503		RD1/4PU202J
R	204		RS1/10S181J	R	504		RD1/4PU202J
R	205		RS1/10S274J				
R	206		RS1/10S274J	R	505		RS1/10S222J
R	207		RS1/10S133J	R	506		RS1/10S222J
R	208		RS1/10S133J	R	507		RS1/10S222J
R	209		RS1/10S183J	R	508		RS1/10S222J
R	210		RS1/10S183J	R	509		RD1/4PU2R2J
R	211		RS1/10S472J				
R	212		RS1/10S472J	R	510		RD1/4PU2R2J
R	213		RS1/10S512J	R	511		RD1/4PU2R2J
R	214		RS1/10S512J	R	512		RD1/4PU2R2J
R	219		RD1/4PU273J	R	513		RD1/4PU2R2J
R	220		RD1/4PU273J	R	514		RD1/4PU2R2J
R	301		RS1/10S272J				
R	302		RS1/10S272J	R	515		RD1/4PU2R2J
R	305		RS1/10S0R0J	R	516		RD1/4PU2R2J
R	306		RD1/4PU222J	R	517		RD1/4PU103J
R	307		RS1/8S222J	R	518		RS1/10S153J
R	308		RS1/8S222J	R	519		RS1/10S221J
R	309		RS1/10S102J				
R	310		RS1/10S0R0J	R	520		RS1/10S101J
R	311		RS1/8S272J	R	521		RS1/8S103J
R	312		RD1/4PU222J	R	601		RS1/10S104J
R	314		RS1/8S392J	R	602		RS1/8S104J
R	315		RS1/10S392J	R	604		RS1/10S473J
R	316		RS1/10S152J				
R	317		RS1/10S103J	R	610		RD1/4PU473J
				R	612		RS1/8S473J
				R	613		RS1/10S473J
				R	614		RS1/10S473J
				R	615		RS1/10S222J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 616	RS1/10S222J	R 812	RS1/10S103J
R 617	RS1/10S222J	R 813	RS1/10S102J
R 618	RD1/4PU103J	R 814	RS1/10S473J
R 619	RS1/8S473J	R 816	RS1/10S472J
R 620	RS1/10S473J	R 817	RS1/10S223J
R 621	RD1/4PU104J	R 818	RS1/10S222J
R 622	RS1/10S473J	R 819	RS1/10S472J
R 623	RD1/4PU473J	R 820	RD1/4PU102J
R 624	RS1/10S332J	R 821	RD1/4PU1R5J
R 625	RS1/10S102J	R 822	RD1/4PU1R5J
R 629	RS1/10S103J	R 823	RD1/4PU1R0J
R 630	RD1/4PU152J	R 824	RS1/10S103J
R 631	RS1/10S102J	R 825	RS1/10S103J
R 632	RS1/10S124J		
R 652	RS1/10S104J	CAPACITORS	
R 653	RS1/10S104J	C 201	CKSQYB561K50
R 655	RS1/10S223J	C 202	CKSQYB561K50
R 656	RS1/10S103J	C 205	CKSQYB103K25
R 657	RD1/4PU472J	C 206	CKSQYB103K25
R 658	RS1/10S473J	C 207	CEALR47M50
R 659	RS1/10S223J	C 208	CEALR47M50
R 660	RD1/4PU473J	C 209	CEJA1R0M50
R 661	RS1/10S473J	C 210	CEJA1R0M50
R 662	RD1/4PU223J	C 213	CEAL220M16
R 663	RD1/4PU473J	C 219	CKSQYB104K16
R 664	RS1/10S222J	C 220	CEAL100M16
R 668	RS1/10S0R0J	C 223	CKSQYB105K10
R 673	RS1/10S0R0J	C 224	CKSQYB105K10
R 701	RD1/4PU102J	C 225	CEAL470M6R3
R 702	RD1/4PU102J	C 226	CEAL470M6R3
R 703	RS1/8S102J	C 301	CKSQYB223K25
R 704	RD1/4PU102J	C 302	CKSQYB223K25
R 705	RS1/10S102J	C 303	CKSQYB223K25
R 706	RS1/10S0R0J	C 307	CKSQYB103K25
R 707	RS1/10S333J	C 308	CCSQCH101K50
R 708	RS1/10S102J	C 311	CCSQCH101K50
R 709	RS1/10S562J	C 313	CKSQYB223K25
R 710	RS1/10S222J	C 314	CKSQYB103K25
R 711	RS1/10S222J	C 315	CEAL220M6R3
R 712	RS1/10S562J	C 316	CKSQYB103K25
R 713	RS1/10S684J	C 317	CKSQYB103K25
R 714	RS1/8S103J	C 318	CKSQYB102K50
R 715	RS1/10S224J	C 319	CEAL220M16
R 716	RS1/10S224J	C 320	CCSQCH150J50
R 717	RS1/10S222J	C 321	CCSQCH150J50
R 718	RS1/10S222J	C 322	CKSQYB103K25
R 719	RS1/10S223J	C 324	CEALR47M50
R 720	RS1/10S223J	C 325	CCH1250
R 721	RS1/10S105J	C 326	CKSQYB103K25
R 722	RS1/10S224J	C 328	CKLSR473K16
R 723	RS1/10S562J	C 331	CKSQYB104K16
R 724	RS1/10S681J	C 332	CEAL220M6R3
R 725	RD1/4PU681J	C 333	CKSQYB103K25
R 726	RS1/10S681J	C 334	CEAL220M6R3
R 727	RS1/10S102J	C 335	CKSQYB103K25
R 801	RD1/4PU102J	C 336	CKSQYB223K25
R 802	RS1/10S472J	C 337	CKSQYB103K25
R 803	RS1/10S101J	C 340	CCH1165
R 804	RD1/4PU332J	C 341	CKSQYB103K25
R 805	RS1/10S103J	C 342	CKSQYB473K16
R 806	RD1/4PU102J	C 343	CKSQYB102K50
R 807	RD1/4PU122J	C 401	CEJA2R2M50
R 808	RS1/10S103J	C 402	CEJA2R2M50
R 809	RS1/10S102J	C 403	CEJA100M16
R 810	RD1/4PU473J	C 404	CEJA100M16

KEH-2700R,2730R

====Circuit Symbol and No.====Part Name	Part No.
C 405	CKSQYB822K50
C 406	CKSQYB822K50
C 407	CEJA1R0M50
C 408	CEJA1R0M50
C 409	CKSQYB183K25
C 410	CKSQYB183K25
C 411	CKSQYB102K50
C 412	CKSQYB102K50
C 413	CEJA2R2M50
C 414	CEJA2R2M50
C 415	CKSQYB333K25
C 416	CKSQYB333K25
C 417	CEJA220M6R3
C 418	CEJA2R2M50
C 419	CKSQYB104K16
C 420	CKSQYB103K25
C 423	CEJA470M10
C 424	CKSQYB104K16
C 425	CKSYB105K16
C 426	CKSYB105K16
C 501	CEJA4R7M35
C 502	CEJA4R7M35
C 503	CEJA4R7M35
C 504	CEJA4R7M35
C 505	CKSQYB102K50
C 506	CKSQYB102K50
C 507	CKSQYB102K50
C 508	CKSQYB102K50
C 509	CKSQYB104K16
C 510	CKSQYB104K16
C 511	CKSQYB104K16
C 512	CKSQYB104K16
C 513	CKSQYB104K16
C 514	CKSQYB104K16
C 515	CKSQYB104K16
C 516	CKSQYB104K16
C 517	CEJA330M10
C 518	CEJA100M16
C 519	CKSQYB104K16
C 520	CKSQYB104K16
C 601	CCSQCH101K50
C 602	CEAL4R7M35
C 604	CCSQCH101K50
C 606	CKSQYB104K16
C 607	CKSQYB224K16
C 608	CEJA2R2M50
C 619	CKSQYB102K50
C 620	CCSQCH101K50
C 621	CCSQCH101J50
C 623	CKSQYB102K50
C 701	CEAL4R7M35
C 702	CKSQYB104K16
C 703	CCSQCH220J50
C 704	CCSQCH220J50
C 705	CKSQYB472K50
C 706	CKSQYB104K16
C 707	CKSYB105K16
C 708	CKSQYB104K16
C 709	CKSQYB222K50
C 710	CKSQYB104K16
C 711	CKSQYB104K16
C 712	CKSQYB223K25
C 713	CEAL4R7M35
C 714	CKSQYB103K25
C 715	CKSQYB103K25
C 716	CKSQYB223K25
C 717	CKSQYB471K50
C 801 3300μF/16V	CCH1018
C 802 470μF/16V	CCH1183
C 803	CKSQYB102K50

====Circuit Symbol and No.====Part Name	Part No.
C 804	CKSQYB473K16
C 805	CEJA101M10
C 806	CKSQYB103K25
C 807 330μF/10V	CCH1181
C 808	CKSQYB103K25
C 809	CKSQYB104K16
C 811 100μF/16V	CCH1179

D Unit Number: CWM5529(KEH-2700R/X1M/EW)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 901	IC	PD6196A
D 901	Diode	STZ6R2N
L 901	Ferri-Inductor	LAU101K
X 901	Ceramic Resonator 4.970MHz	CSS1422
S 901	Push Switch	CSG1093
S 902	Switch	CSG1081
S 903	Push Switch	CSG1093
S 904	Switch	CSG1081
S 905	Push Switch	CSG1093
S 906	Push Switch	CSG1093
S 907	Push Switch	CSG1093
S 908	Switch	CSG1081
S 909	Push Switch	CSG1093
S 910	Switch	CSG1081
S 911	Push Switch	CSG1093
S 912	Push Switch	CSG1093
S 913	Switch	CSG1081
S 914	Push Switch	CSG1093
S 915	Switch	CSG1081
S 916	Push Switch	CSG1093
S 917	Switch	CSG1081
S 918	Switch	CSG1081
S 919	Push Switch	CSG1093
S 920	Push Switch	CSG1093
IL 901	Lamp 14V 40mA	CEL1547
IL 902	Lamp 14V 40mA	CEL1549
IL 903	Lamp 14V 40mA	CEL1549
IL 904	Lamp 14V 40mA	CEL1549
IL 905	Lamp 14V 40mA	CEL1547
LCD 901	LCD	CAW1391

RESISTORS

R 901	RS1/10S222J
R 902	RS1/10S222J
R 903	RS1/10S472J
R 906	RS1/10S473J
R 907	RS1/10S473J
R 908	RS1/10S473J
R 909	RS1/10S473J
R 910	RS1/10S473J
R 911	RS1/10S473J
R 912	RS1/10S473J
R 914	RS1/10S0R0J
R 916	RS1/10S0R0J

CAPACITORS

C 901	CEAL100M16
C 904	CKSQYB104K50
C 905	CKSQYB102K50
C 906	CCSCH101J50

====Circuit Symbol and No.====Part Name Part No.



Unit Number: CWM5530(KEH-2730R/X1M/EW)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC	901	IC	PD6196A
D	901	Diode	STZ6R2N
L	901	Ferri-Inductor	LAU101K
X	901	Ceramic Resonator 4.970MHz	CSS1422
S	901	Push Switch	CSG1093
S	902	Switch	CSG1081
S	903	Push Switch	CSG1093
S	904	Switch	CSG1081
S	905	Push Switch	CSG1093
S	906	Push Switch	CSG1093
S	907	Push Switch	CSG1093
S	908	Switch	CSG1081
S	909	Push Switch	CSG1093
S	910	Switch	CSG1081
S	911	Push Switch	CSG1093
S	912	Push Switch	CSG1093
S	913	Switch	CSG1081
S	914	Push Switch	CSG1093
S	915	Switch	CSG1081
S	916	Push Switch	CSG1093
S	917	Switch	CSG1081
S	918	Switch	CSG1081
S	919	Push Switch	CSG1093
S	920	Push Switch	CSG1093
IL	901	Lamp 14V 40mA	CEL1479
IL	902	Lamp 14V 40mA	CEL1508
IL	903	Lamp 14V 40mA	CEL1508
IL	904	Lamp 14V 40mA	CEL1508
IL	905	Lamp 14V 40mA	CEL1479
LCD	901	LCD	CAW1391

RESISTORS

R	901	RS1/10S222J
R	902	RS1/10S222J
R	903	RS1/10S472J
R	906	RS1/10S473J
R	907	RS1/10S473J
R	908	RS1/10S473J
R	909	RS1/10S473J
R	910	RS1/10S473J
R	911	RS1/10S473J
R	912	RS1/10S473J
R	914	RS1/10S0R0J
R	916	RS1/10S0R0J

CAPACITORS

C	901	CEAL100M16
C	904	CKSQYB104K50
C	905	CKSQYB102K50
C	906	CCSCH101J50

====Circuit Symbol and No.====Part Name Part No.



Unit Number:
Unit Name : Cassette PCB

S	1	Switch(Load)	ESN1016
S	2	Switch(Mute)	ESN1017
S	3	Switch(FWD/REV)	ESH1006
S	4	Switch(Eject)	ESG1006
R	1		RD1/4HM472J

Miscellaneous Parts List

M	1	Motor Unit	EXA1467
HD	1	Head Assy	EXA1466

6. ADJUSTMENT

● Connection Diagram

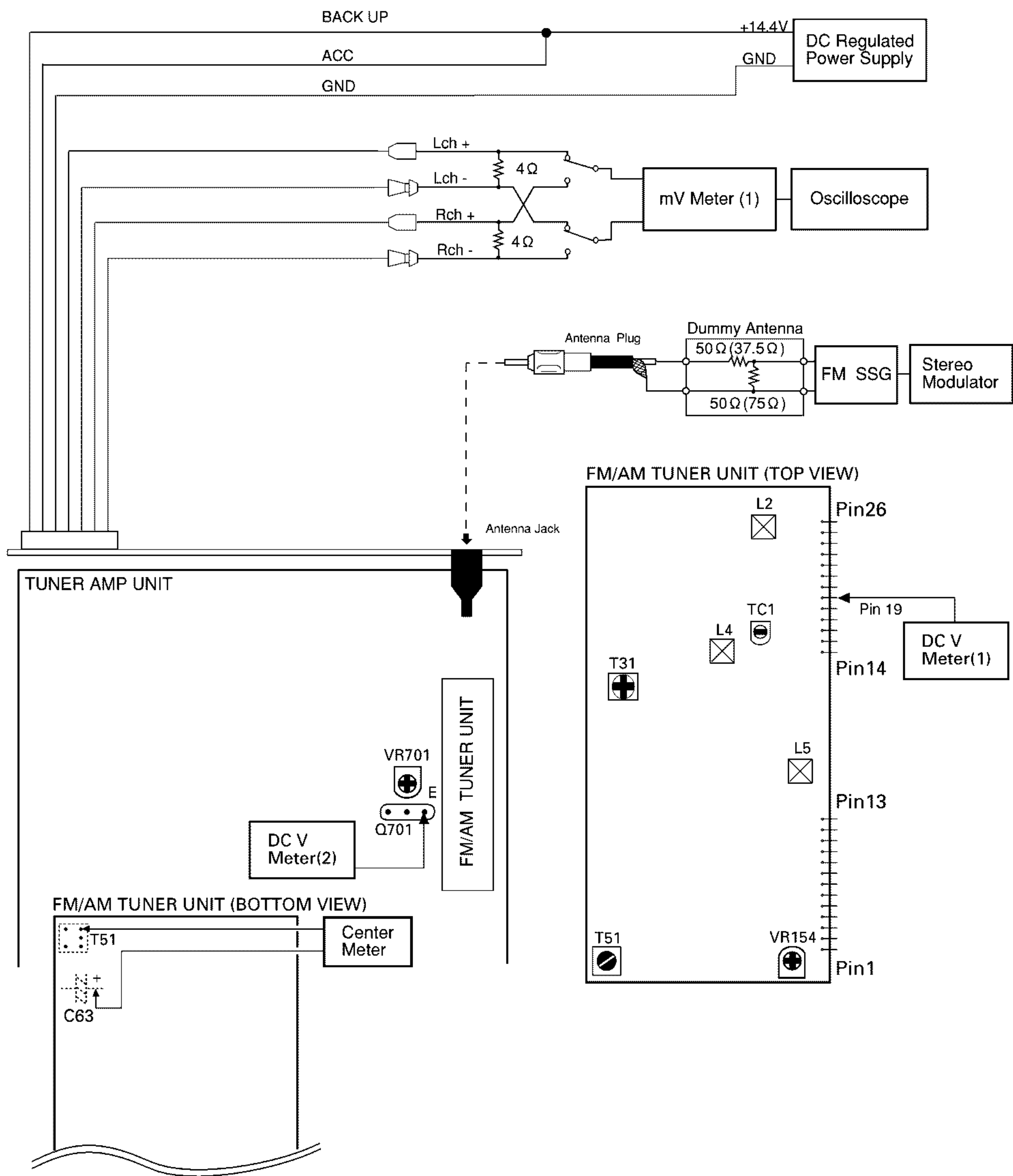


Fig. 15

FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2:STEREO MOD., 400Hz, L or R=60%(40.50kHz+7.5kHz Dev.)

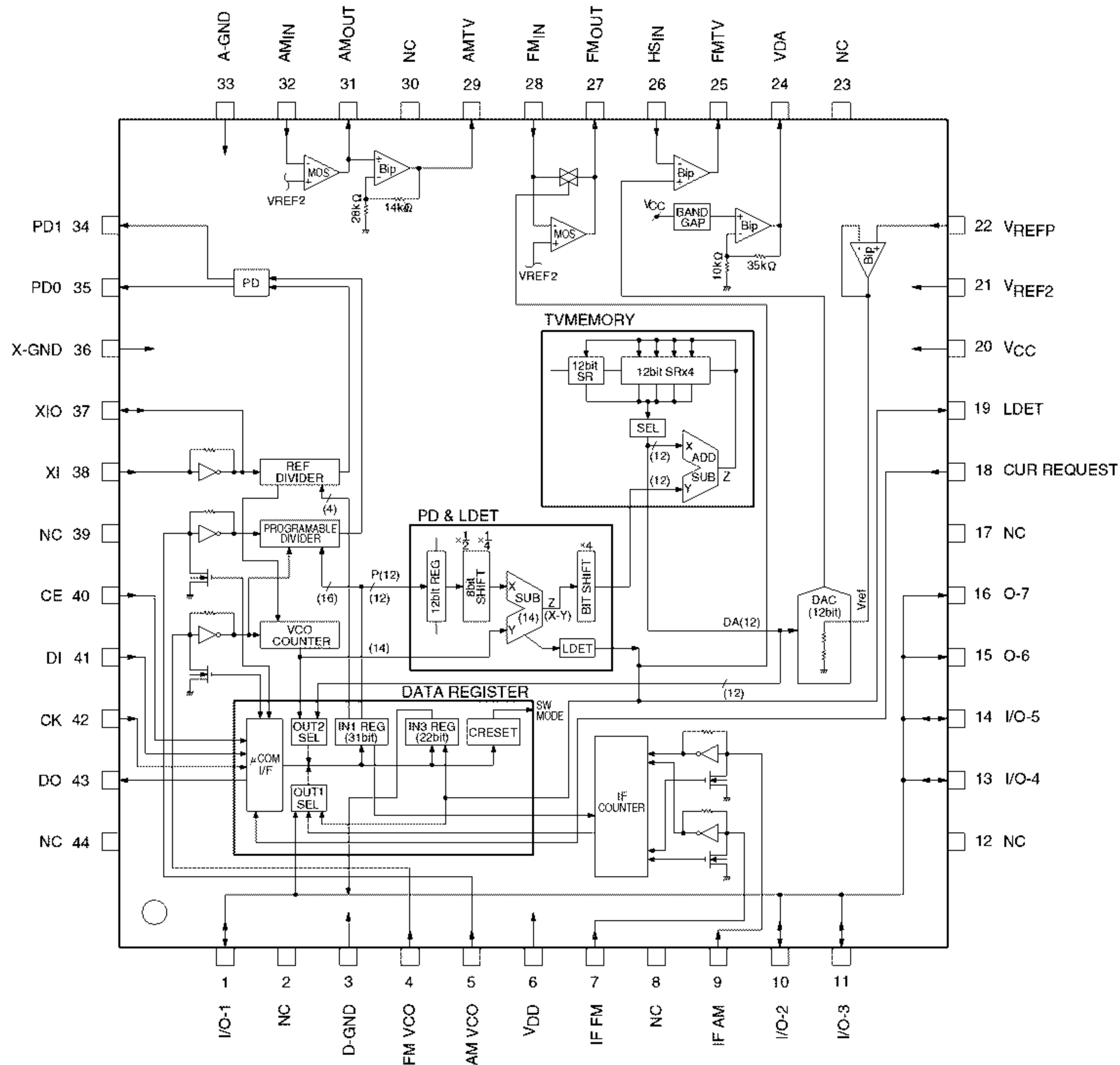
NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	*****	*****	108.0	L5	DC V Meter(1) : 6V
IF	2	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	3	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	4	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
Image	5	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
IFT	6	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	7	98.1 S	40	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

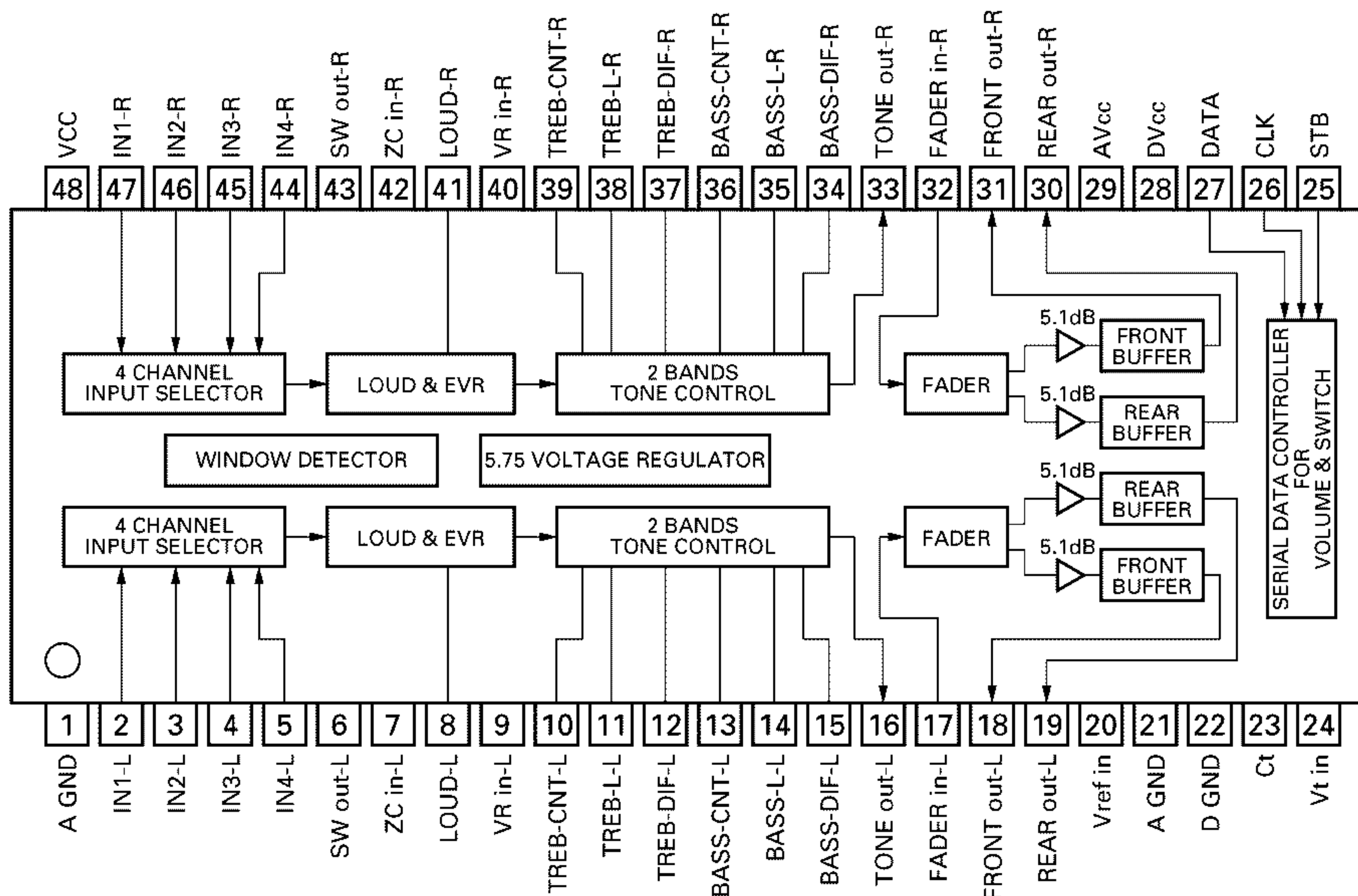
RDS SL ADJUSTMENT

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
	1	104.0 S2	35	104.0	VR701	DC V Meter(2) : 1.75V+0.05V,-0.35V

PM2007A

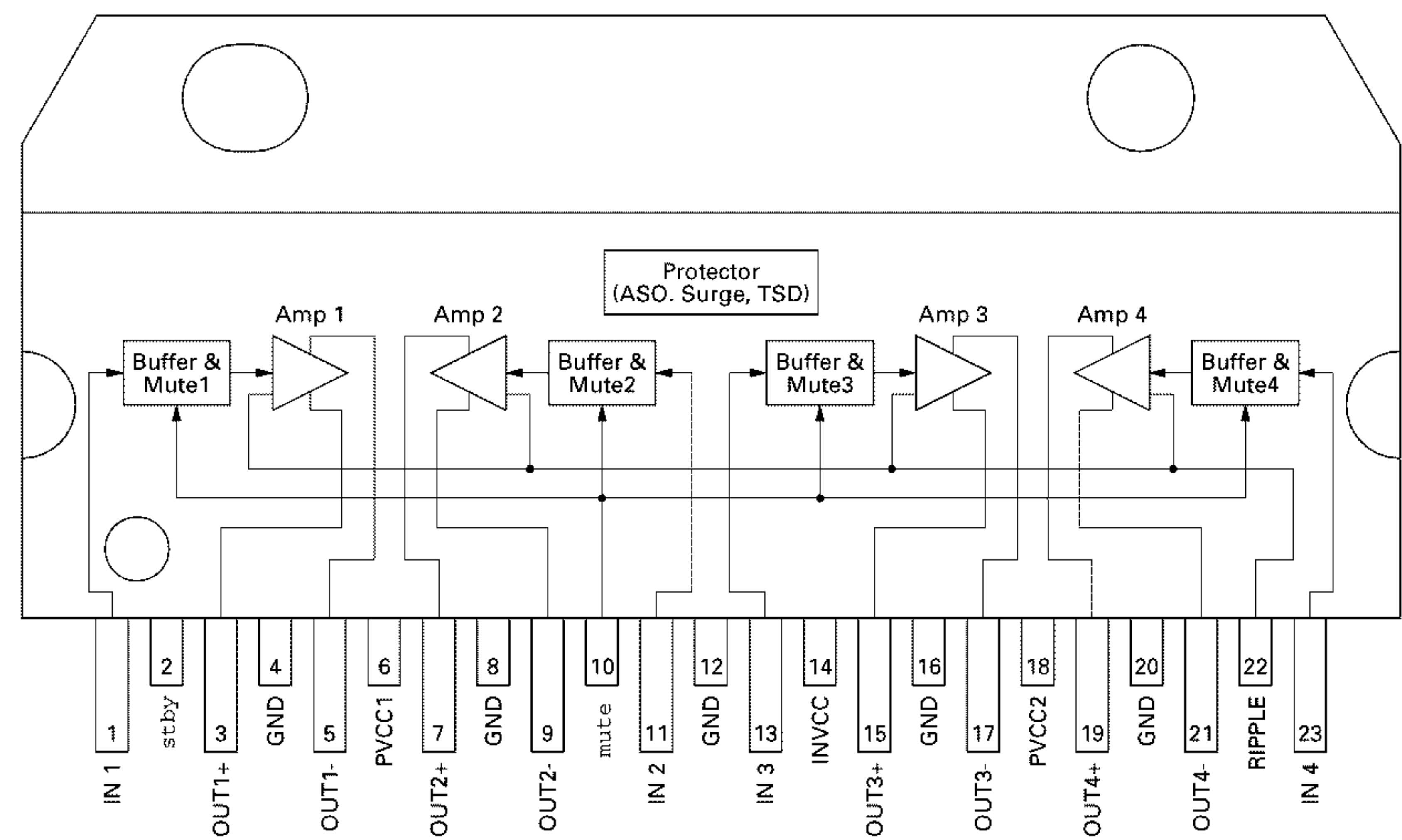


SN761027DL

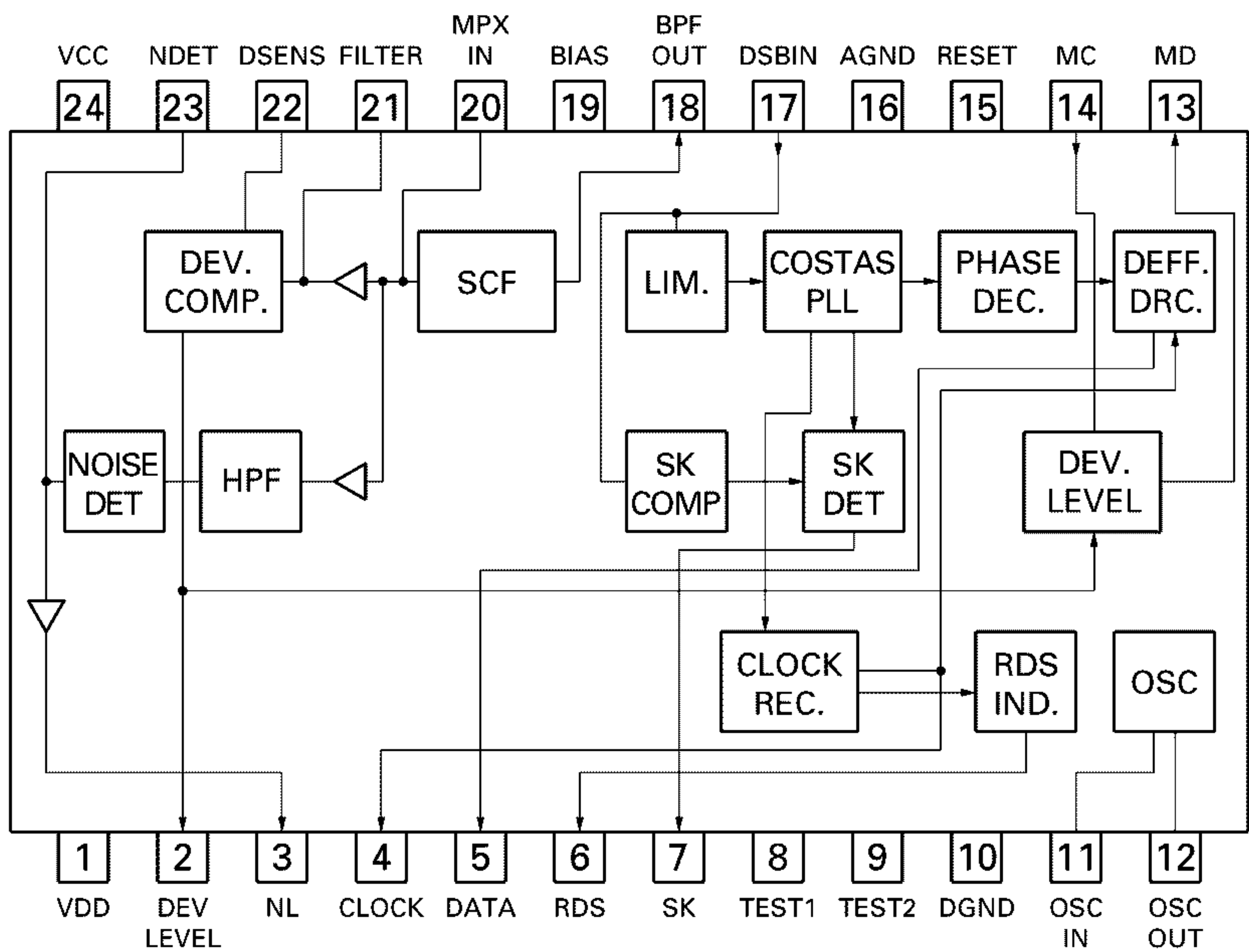


KEH-2700R,2730R

HA13155



PM4006B



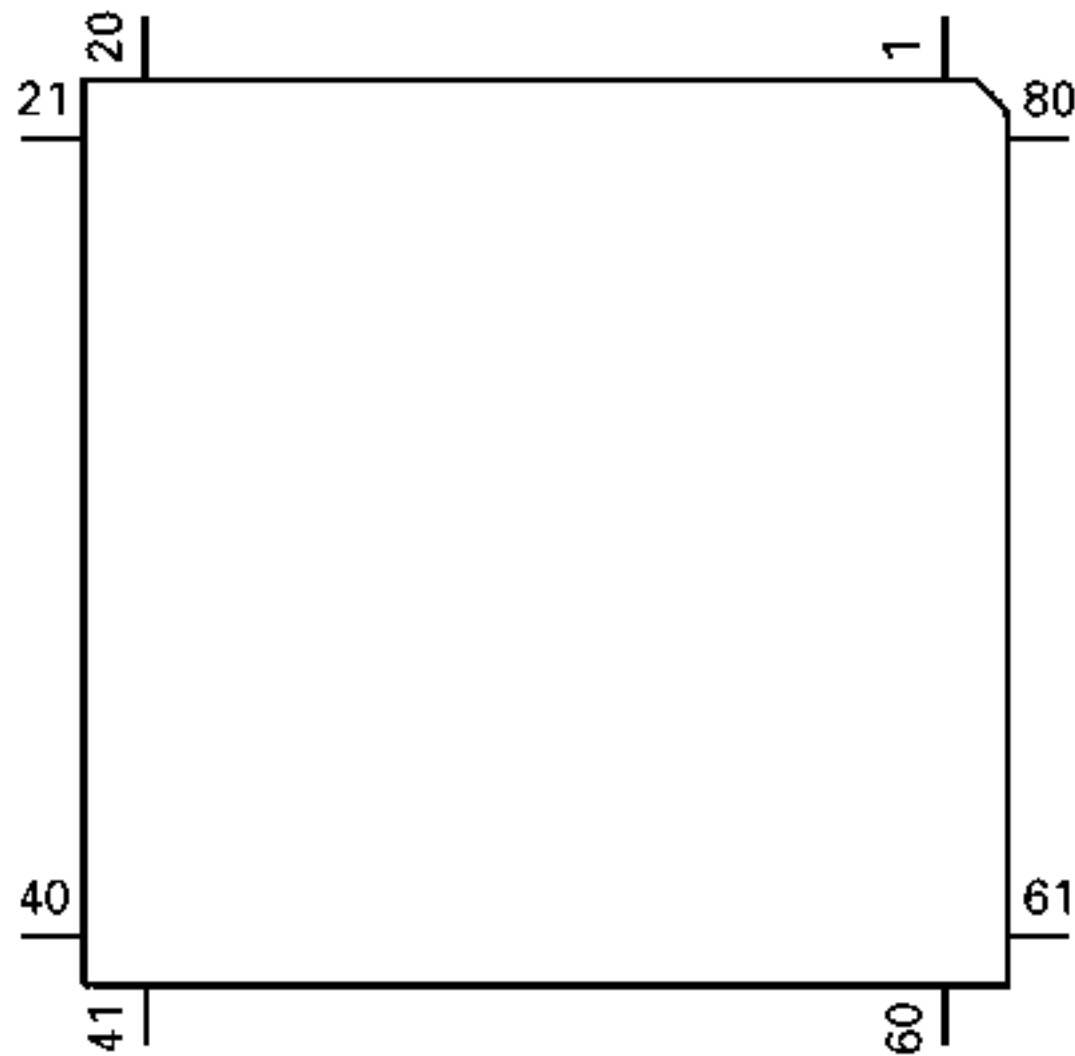
● Pin Functions (PD4879B)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	RDT	I		FROM data input
2	NC			Not used
3	ADPW			A/D converter power
4	GND			GND
5	$\overline{\text{DRST}}$	O	C	Decoder reset output
6	MDSSENS	I		Modulation detect input
7	AVREF1			(D/A converter standard voltage)
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10	$\overline{\text{DSENS}}$	I		Grille detach sense
11	TUNPDI	I		PLL IC data input
12	TUNPDO	O	C	PLL IC data output
13	TUNPCK	O	C	PLL IC clock output
14	TUNPCE	O	C	PLL IC chip enable output
15	$\overline{\text{CURRO}}$	O	C	Tuner voltage FIX output
16	NC			Not used
17	SK	I		SK signal input
18	MUTCNT	I		NF mute control input
19-21	NC			Not used
22	$\overline{\text{SWVDD}}$	O	C	Grille power supply control output
23	NC			Not used
24	VDT	O	C	Data output for electronic volume
25	VCK	O	C	Clock output for electronic volume
26	VST	O	C	Strobe pulse output for electronic volume
27	SYSPW	O	C	System power supply control output
28	MUTE	O	C	Mute output
29	DMINH	O	C	Mechanism mute cancel output
30,31	NC			Not used
32	$\overline{\text{EW/BEW}}$	I	C	Model select
33	GND			GND
34-36	NC			Not used
37	$\overline{\text{TMUTE}}$	O	N	Tuner mute output
38	FM	O	N	FM power control output
39	AM	O	N	AM power control output
40	NC			Not used
41-44	NC			Not used
45	PEE	O	C	Beep tone output
46	NC			Not used
47	RDS57K	I		57kHzBP-OUT sense input
48	NC			Not used
49	NC			Not used
50	$\overline{\text{EJECT}}$	I		Eject key input pin
51	$\overline{\text{TAPLD}}$	I		Tape loading input
52	MECPW	O	C	Cassette mechanism power output
53	$\overline{\text{MCMUT}}$	I		Mechanism mute request
54	$\overline{\text{NOR/REV}}$	I		Normal reverse input
55	MSIN	I		Cassette mechanism MS sense input
56	NC			Not used
57	NC			Not used
58	MTL	O	C	METAL output
59	NR	O	C	NR output
60	$\overline{\text{RESET}}$	I		Reset input
61	$\overline{\text{LDET}}$	I		PLL lock sense input
62	RCK	I		RDS demodulation clock input
63	CLKIN	I		Clock input
64	ASENS	I		ACC power sense input
65	$\overline{\text{BSENS}}$	I		Back up power sense input
66	SD	I		SD input
67	$\overline{\text{ST}}$	I		Stereo input
68	VDD			Power supply

KEH-2700R,2730R

Pin No.	Pin Name	I/O	Format	Function and Operation
69	X2			Oscillator output
70	X1			Oscillator input
71	GND			GND
72	NC			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			(A/D converter standard voltage input)
76	SL	I		Signal level input from tuner
77	CL	I		Synchronizing signal input of display data latch
78	NL	I		Noise level input
79-79	TL	I		Trigger level input
80	RDSLK	I		RDS LK signal input

*PD4879B



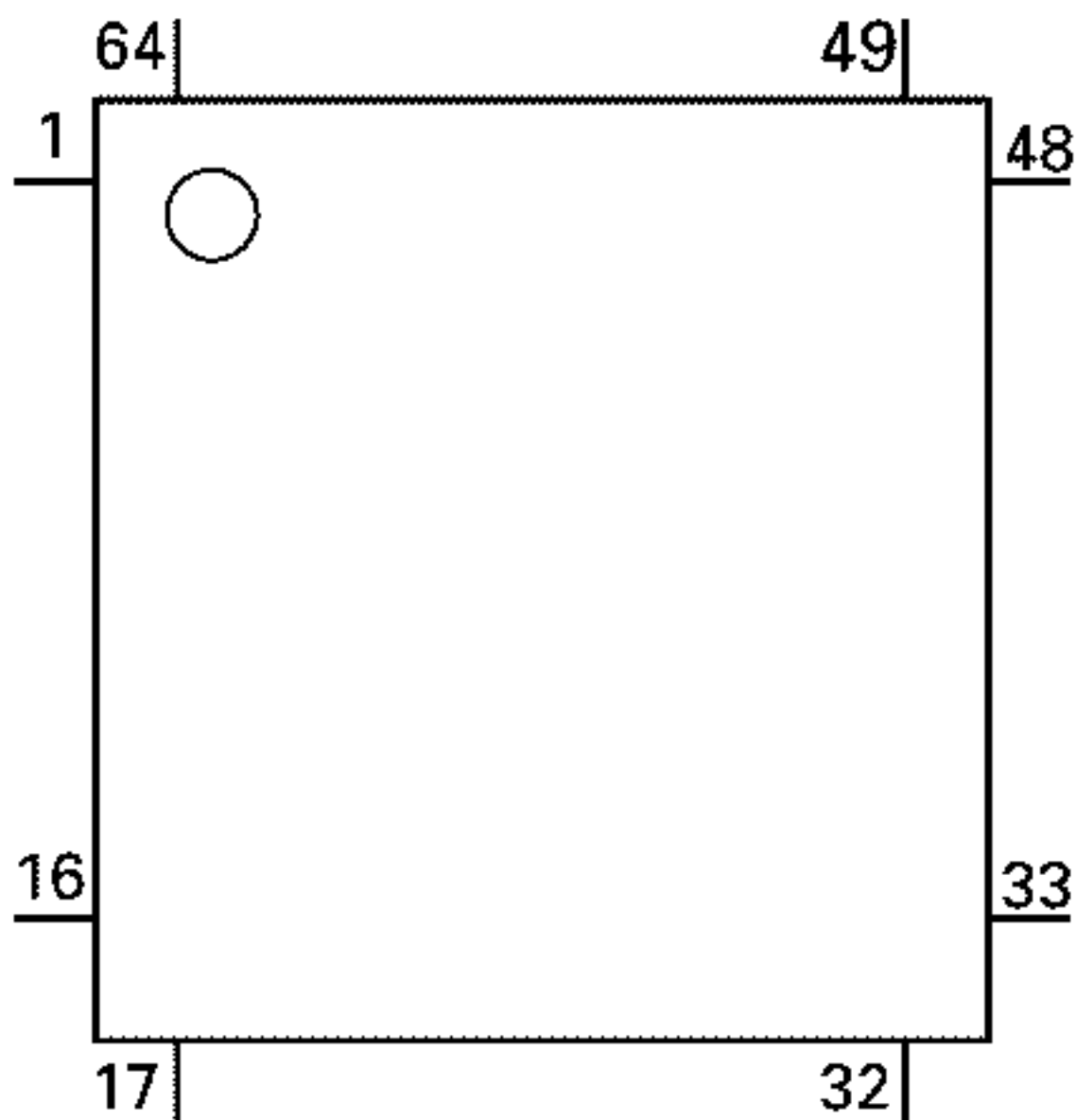
IC's marked by* are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

Format	Meaning
C	C MOS
N	N Channel open drain

● Pin Functions(PD6196A)

Pin No.	Pin Name	I/O	Function and Operation
1-5	SEG4-0	O	LCD segment output
6-9	COM3-0	O	Common driver output
10	V3		LCD bias power supply
11-14	KS4-1	O	Key strobe output
15,16	KD1,2	I	Key data input
17	REM	I	Remote control reception
18	SI	I	UART input
19	RST	I	System reset
20	SO	O	UART output
21	MODA		GND
22	X0		Crystal oscillator connection pin
23	X1		Crystal oscillator connection pin
24	VSS		GND
25,26	KD3,4	I	Key data input
27,28	KS6,5	O	Key strobe output
29-55	SEG39-13	O	LCD segment output
56	VCC		5V
57-64	SEG12-5	O	LCD segment output

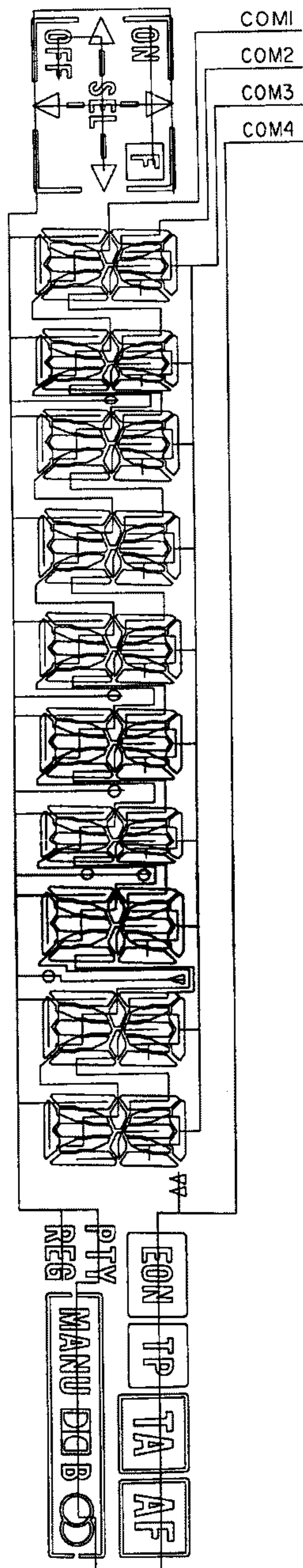
*PD6196A



7.1.2 DISPLAY

● CAW1391

COMMON



SEGMENT

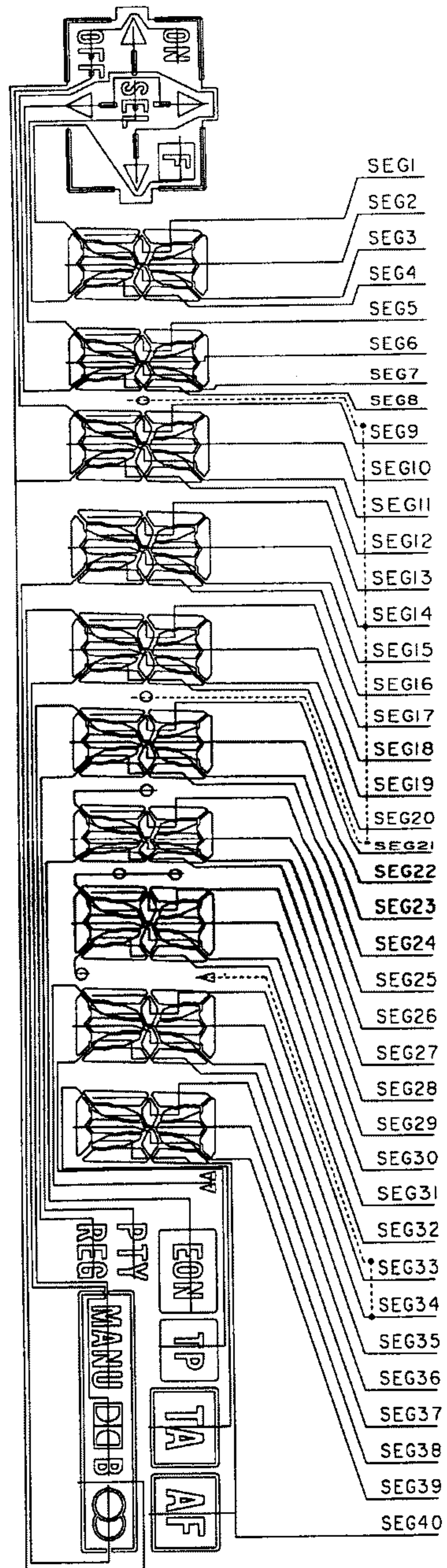


Fig. 16

7.2 DISASSEMBLY

● **Removing the Case(not shown)**

- 1.Remove the three screws.
- 2.Remove the Case.

● **Removing the Cassette Mechanism Assy (not shown)**

- 1.Remove the four screws.
- 2.Disconnect the connector, and then removing the Cassette Mechanism Assy.

● **Removing the Grille Assy(Fig.17)**

- 1.Disengage the stopper at two locations indicated by arrows.
- 2.Remove the Grille Assy.

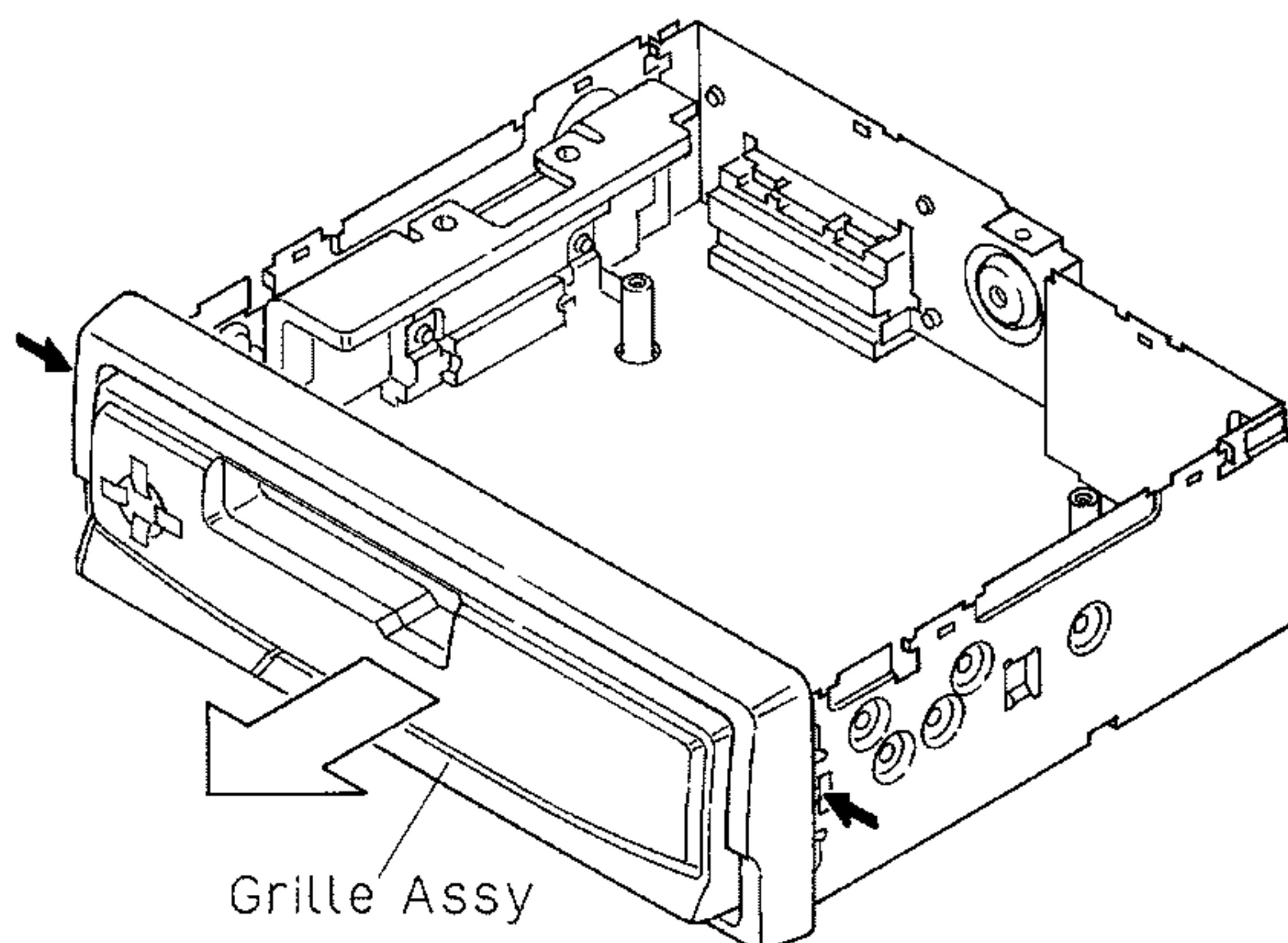


Fig. 17

● **Removing the Tuner Amp Unit(Fig.18)**

- 1.Removing the three screws A, two screws B and screw C.
- 2.Unbend the tabs at a location indicated by arrow until straight.
- 3.Remove the Tuner Amp Unit.

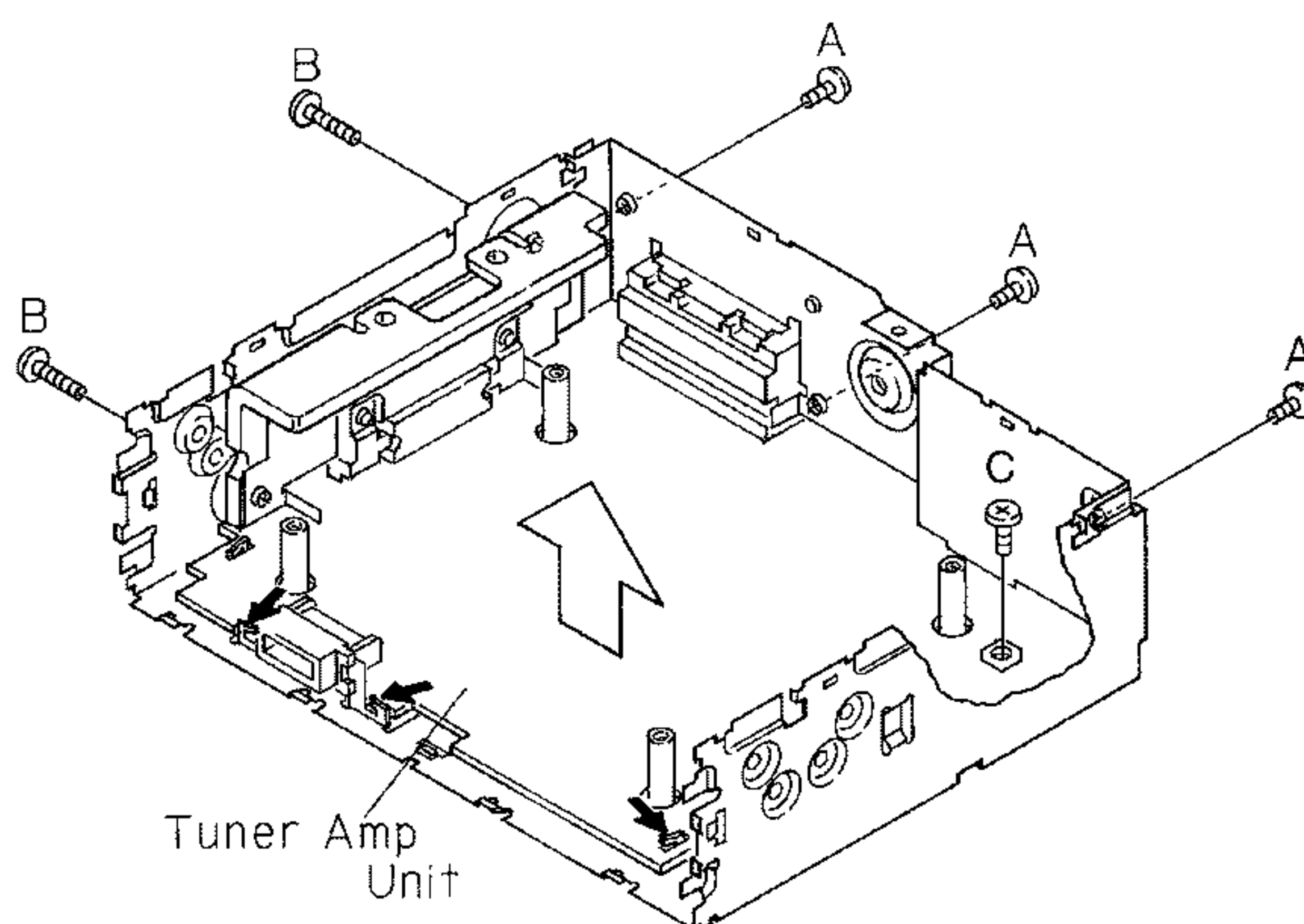


Fig. 18

7.3 BLOCK DIAGRAM

● KEH-2700R/X1M/EW

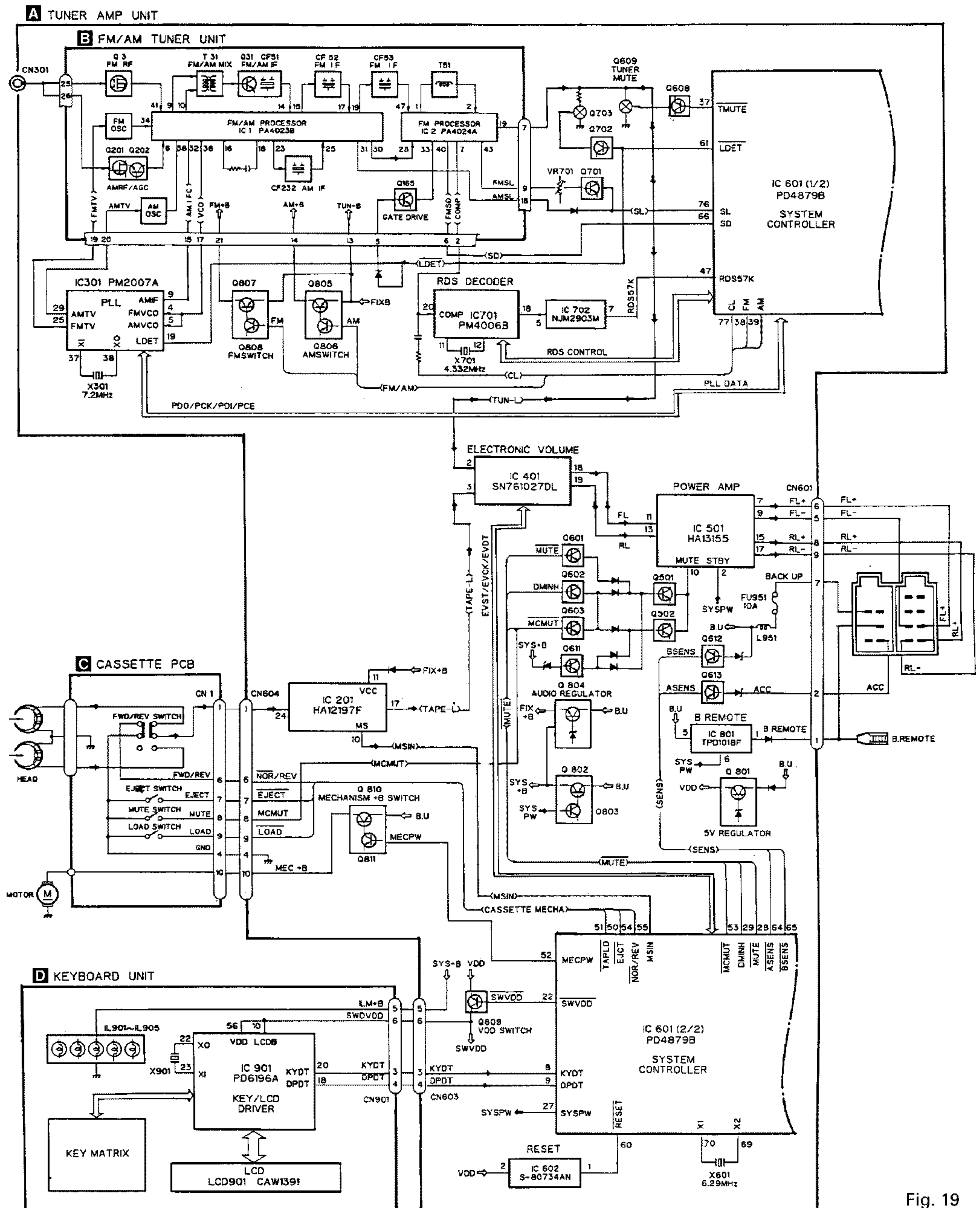


Fig. 19

8. OPERATIONS AND SPECIFICATIONS

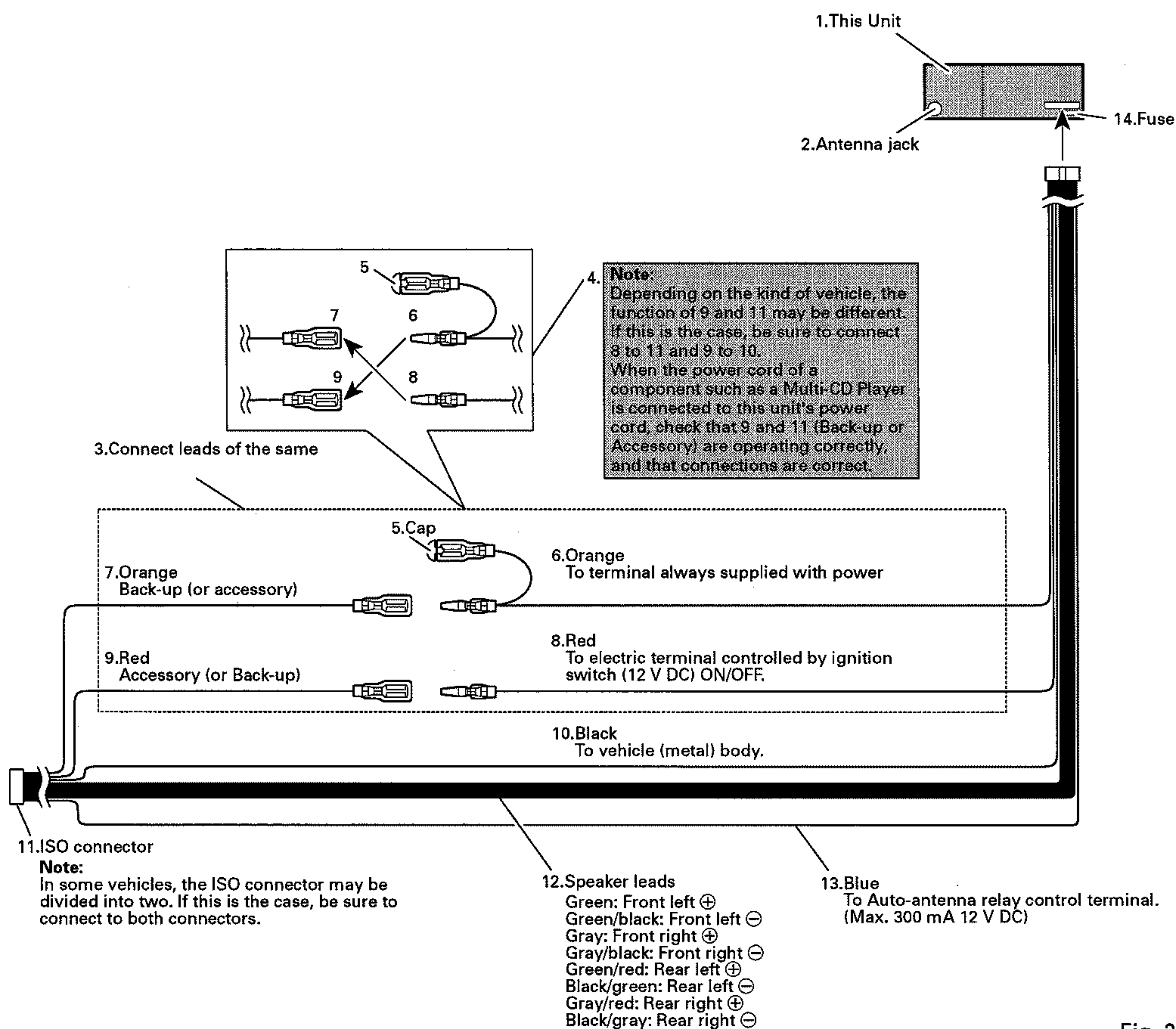
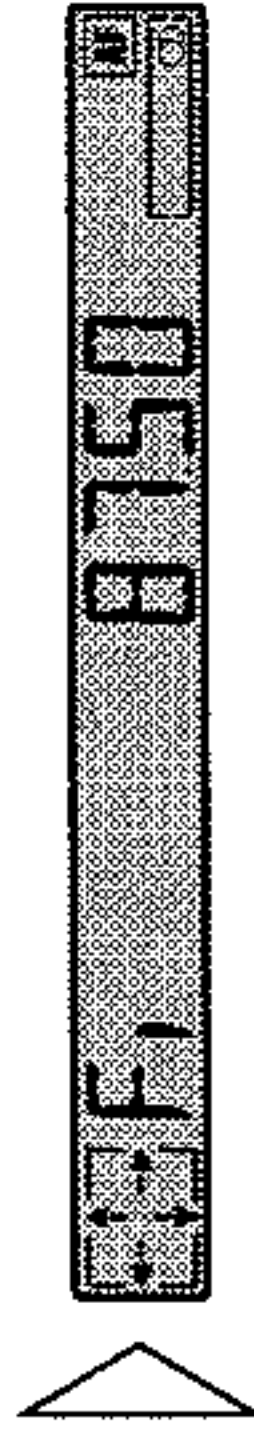
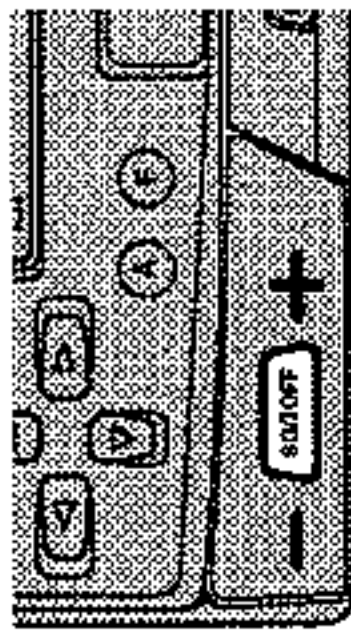


Fig. 20

8.1 OPERATIONS

Basic Operation**Switching Power On**

- Select the desired source (such as the tuner).



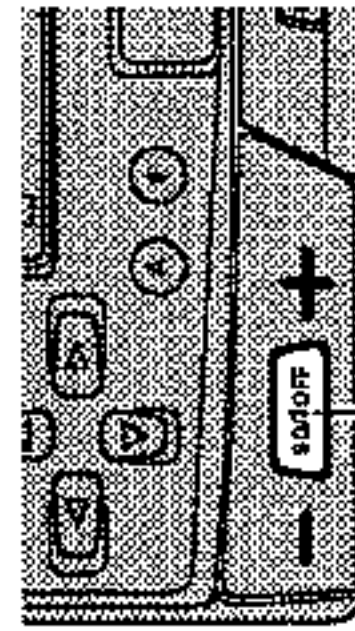
Each press of the SOURCE button selects the desired source in the following order:
Tuner → Tape

Note:

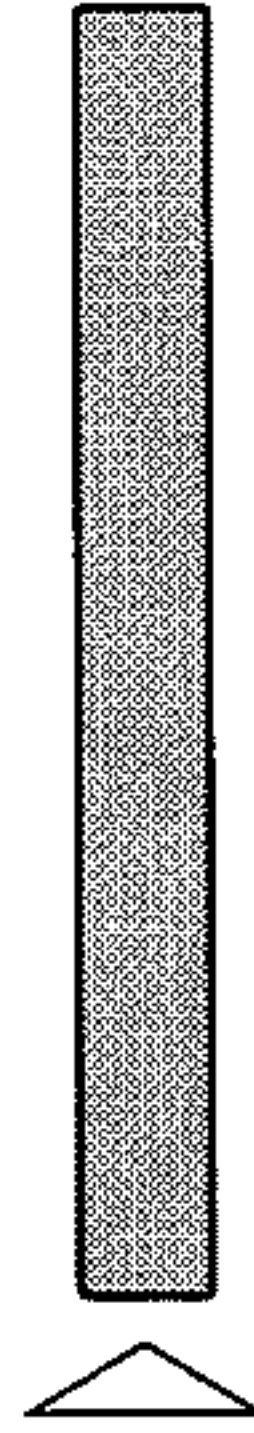
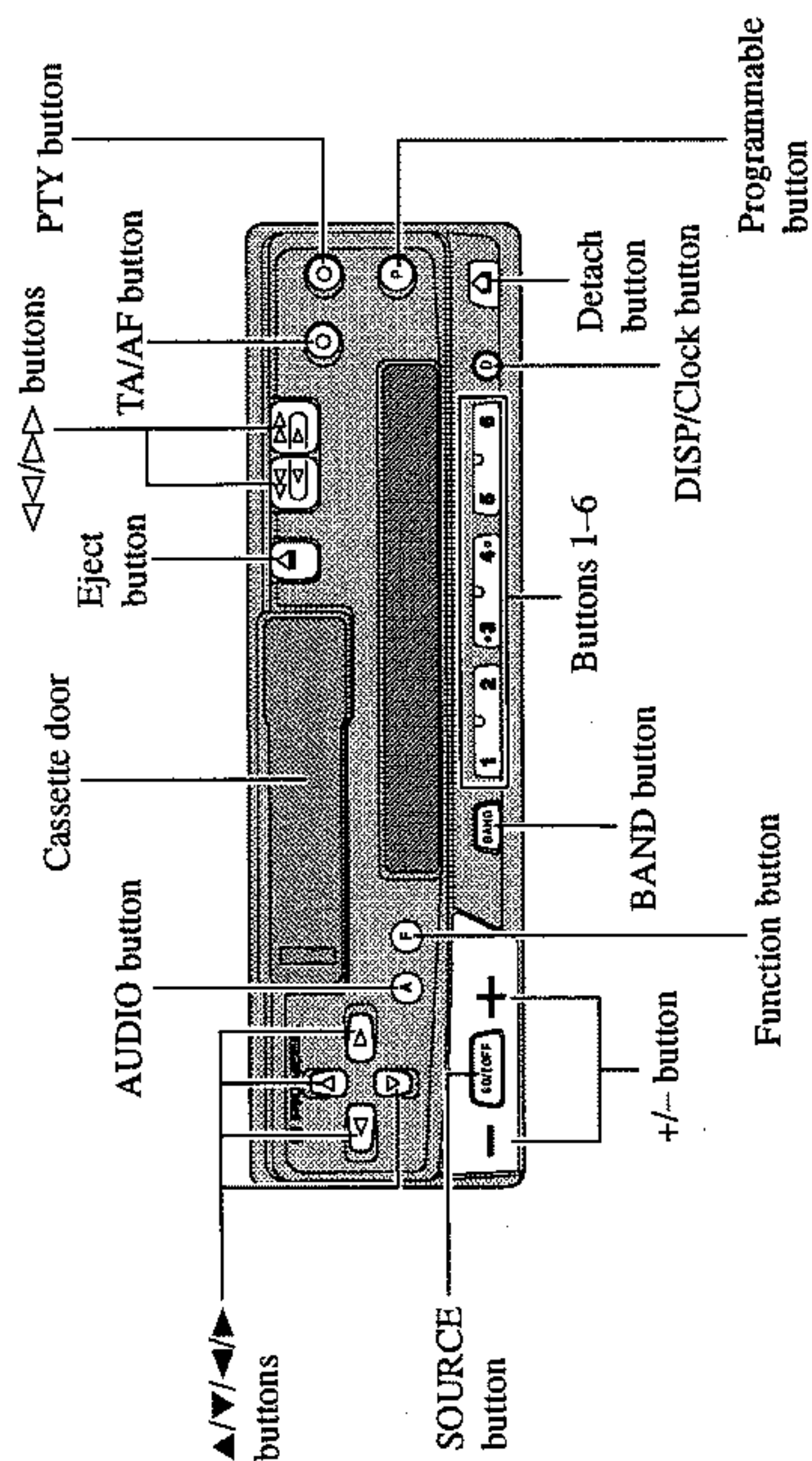
- The sound source will not change when a cassette tape is not set in this unit.

Switching Power Off

- Switch the sources OFF.



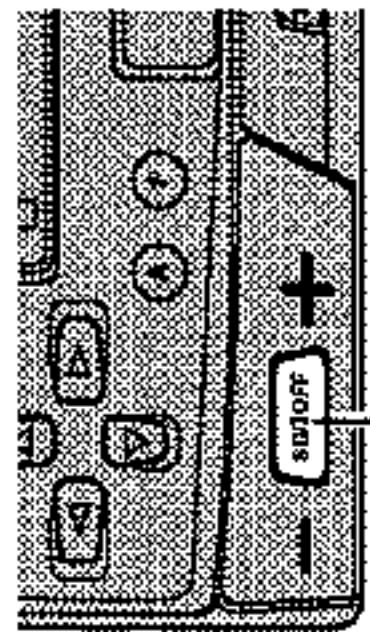
Hold for 1 second

**Key Finder**

Tuner Operation

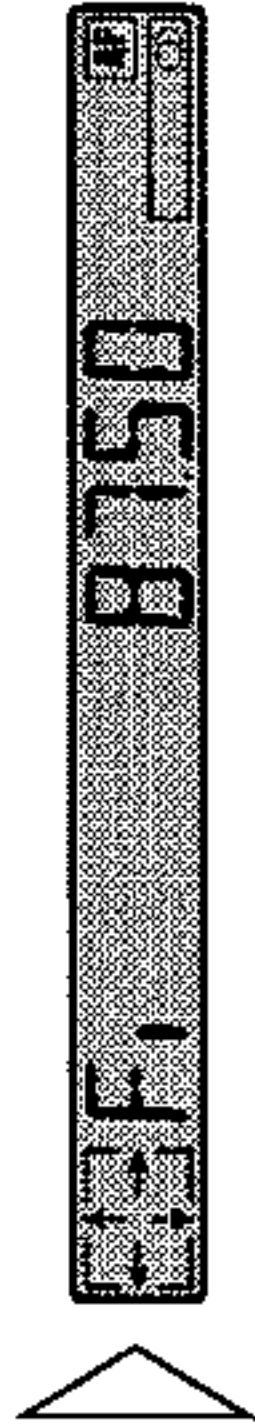
Basic Operation of Tuner

1. Select Tuner.

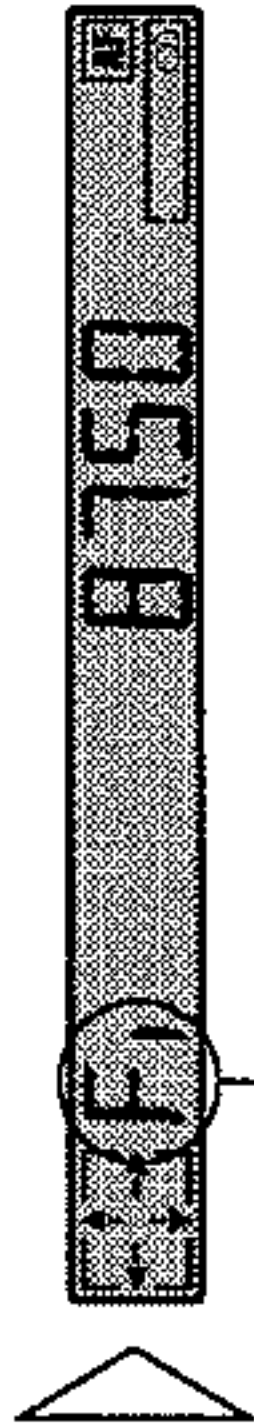
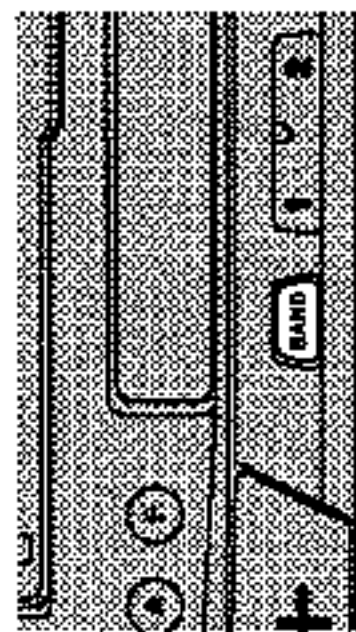


Each press changes the Source ...

The program service name or frequency appears on the display. ("O" indicator lights when a stereo station is selected.)

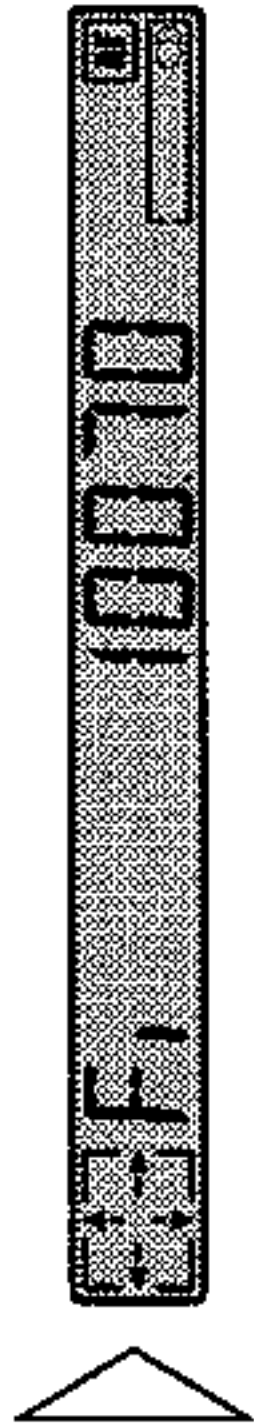
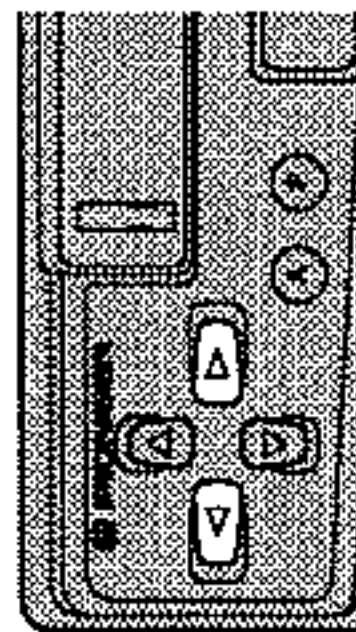


2. Select the desired band.



F1 → F11 → MW/LW

3. Tune the receiver to a higher or lower frequency.



This product's tuner lets you select the tuning by changing the length of the time you press the button.

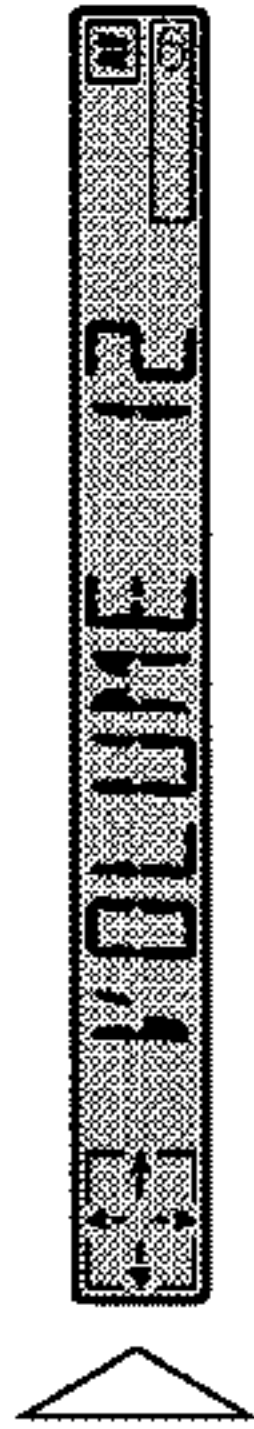
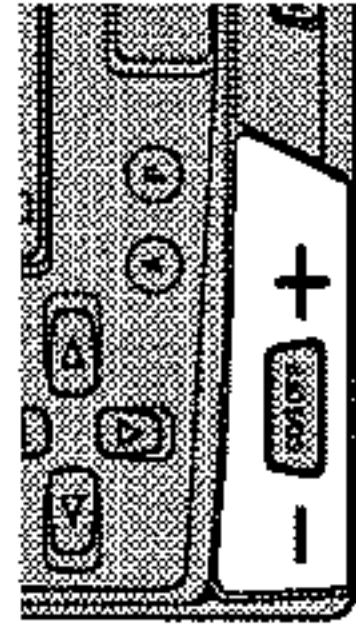
Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning	0.3 - 2 seconds
Manual Tuning (continuously)	2 seconds or more

Note:

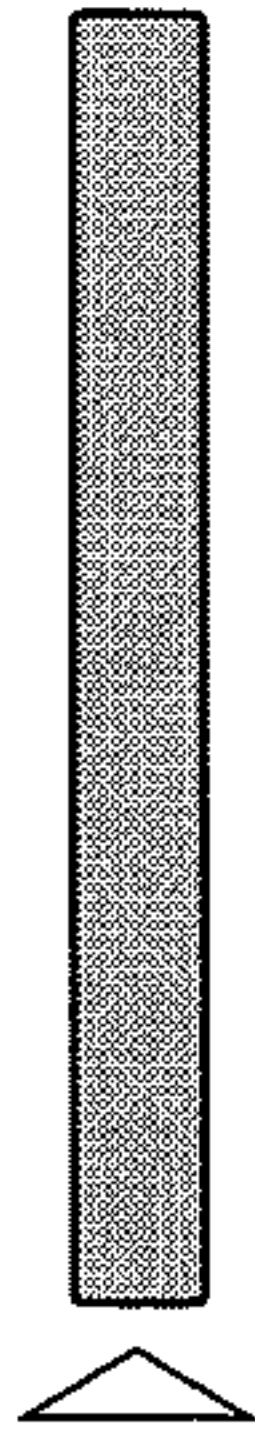
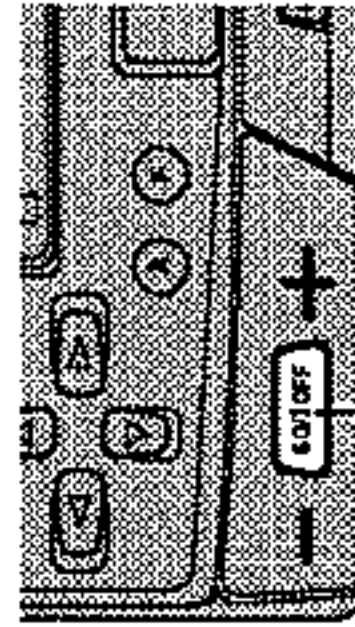
- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning.

Tuner Operation

4. Raise or lower the volume.



5. Turn the source OFF.



Hold for 1 second

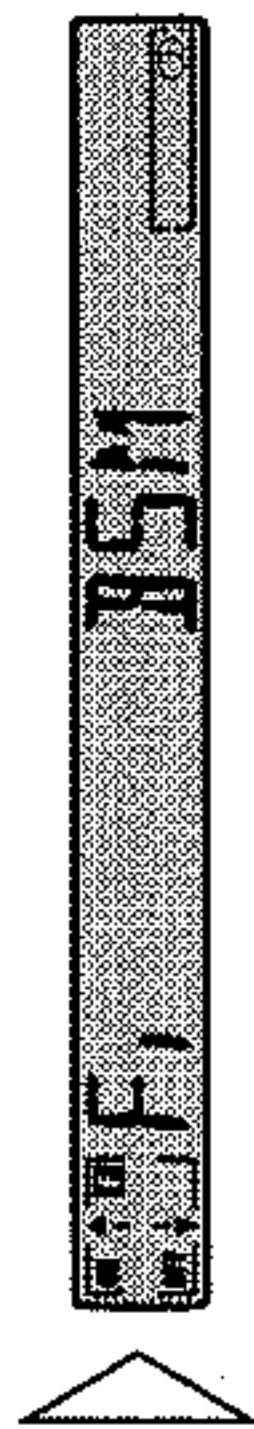
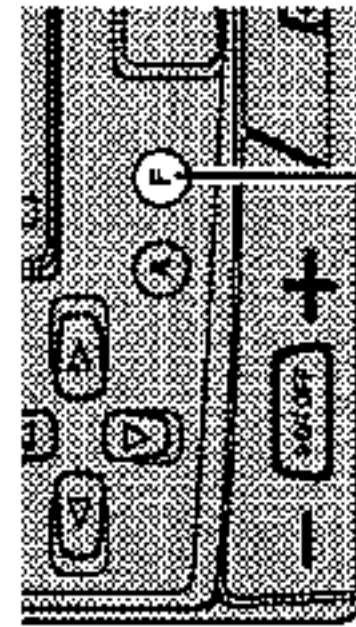
Entering the Function Menu

In this menu you can select tuner functions.

Note:

- REG, TA, PTY, and AF are RDS functions. Refer to "Using RDS Function" for details and instructions on how to use these functions.

- Select the desired mode in Function Menu.



Each press

changes the Mode ...

Each press of the Function button selects the mode in the following order:

BSM → REG → LOCAL → TA → PTY SELECT → AF

Note:

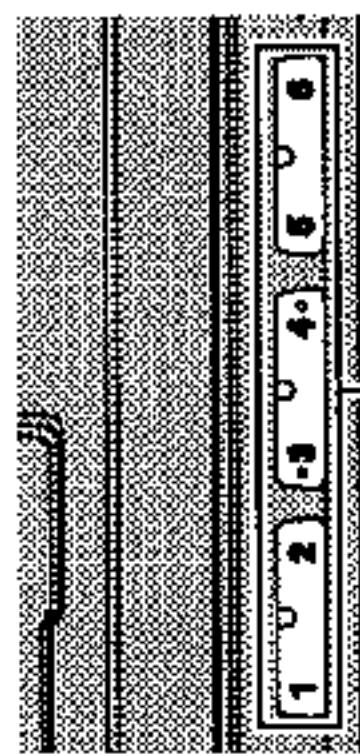
- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Tuner Operation

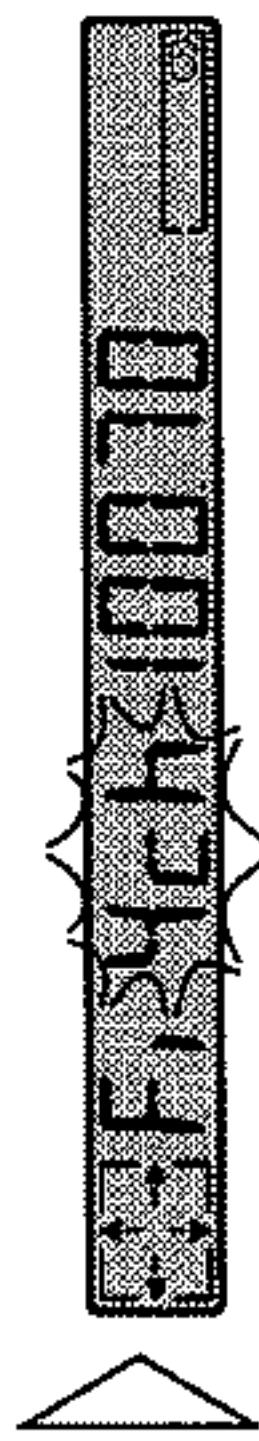
Preset Memory

The Preset Memory function stores stations in memory manually.

1. Select the station whose frequency you want to store in memory.
2. Press one of buttons 1-6 for 2 seconds or longer to store the desired stations.



Hold for 2 seconds



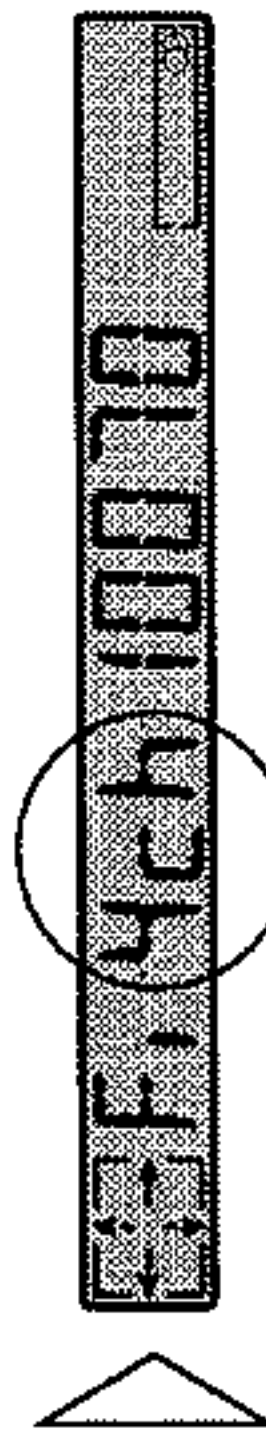
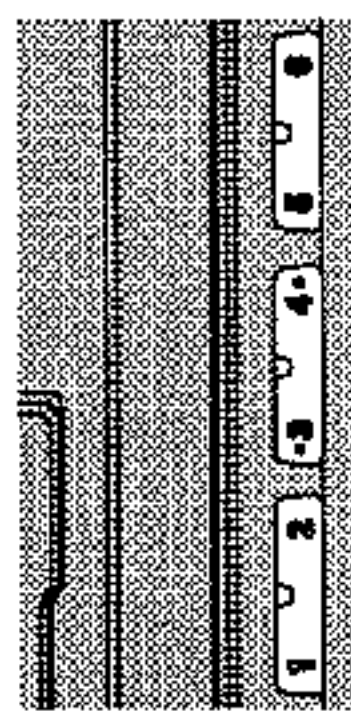
The station is stored in memory under the selected button.

Recalling Preset Stations

There are two ways to recall preset stations.

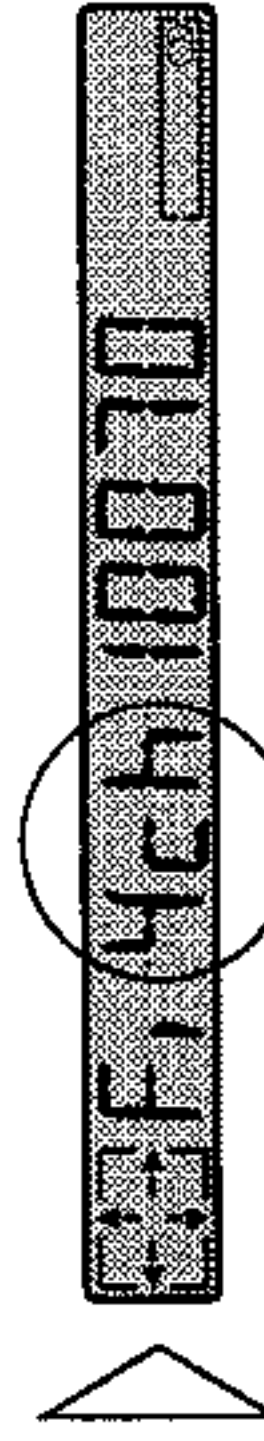
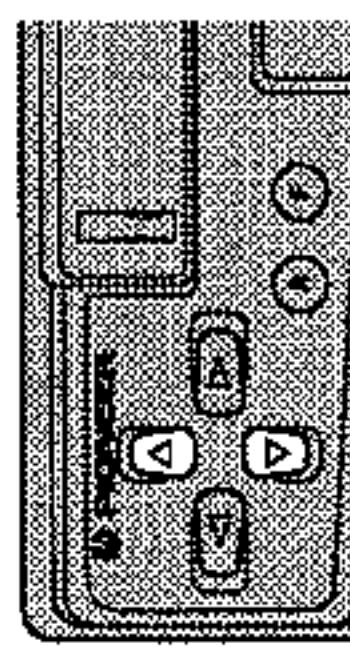
■ Direct Recall

- Press one of buttons 1-6 to recall a station preset under that button.



■ Sequential Recall

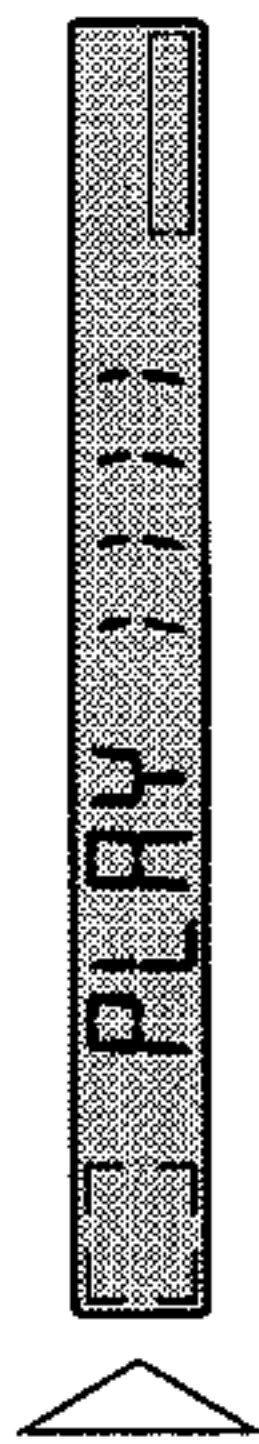
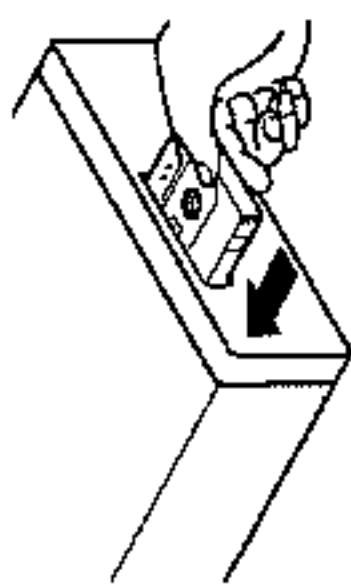
- Recall a station preset under button 1-6.



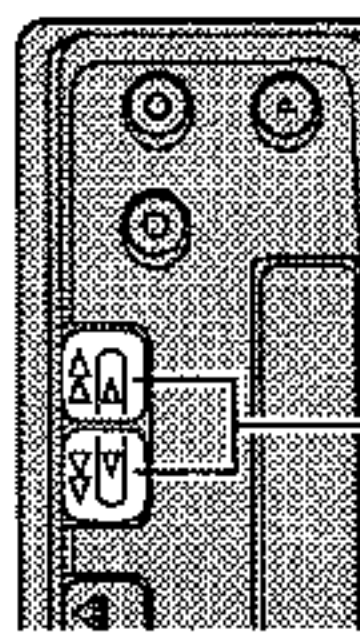
Using the Cassette Player

Basic Operation of Cassette Player

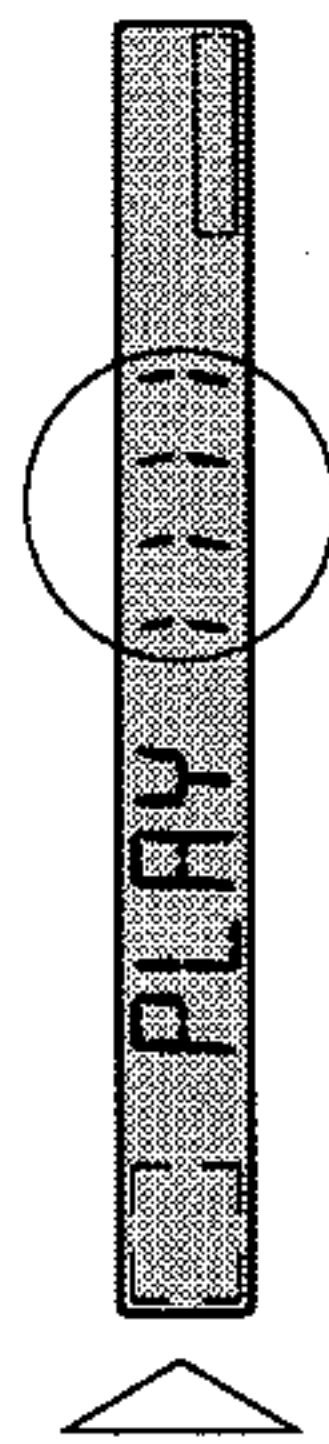
1. Insert the cassette tape.



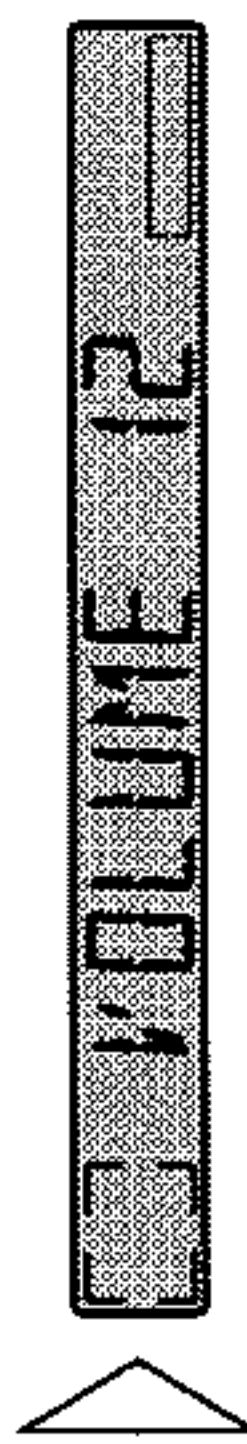
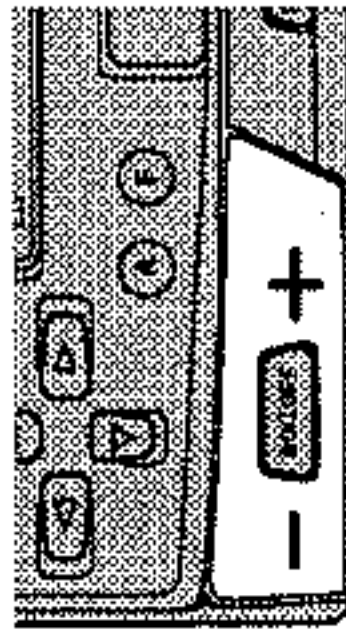
2. Switch tape playback from side A to side B, or vice versa.



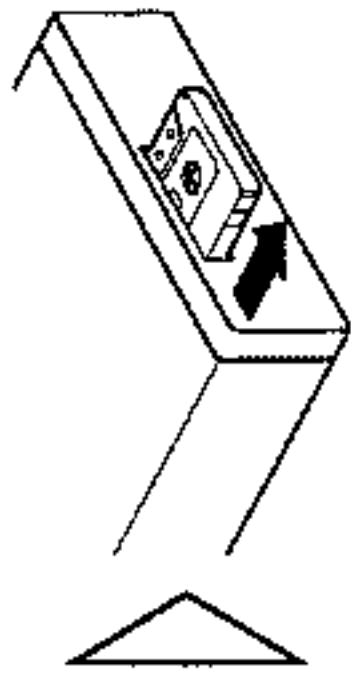
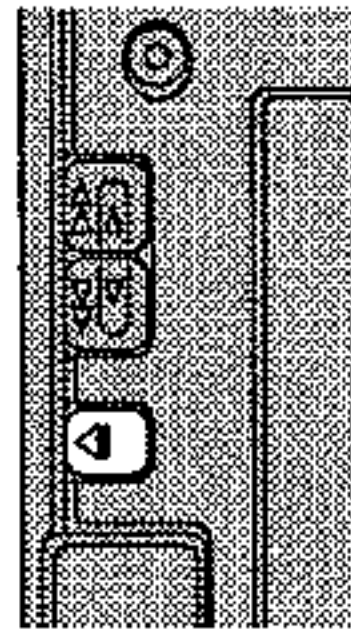
Same Time



3. Raise or lower the volume.



4. Remove the cassette tape.



Note:

- The Tape function can be turned ON/OFF with the cassette tape remaining in this product.

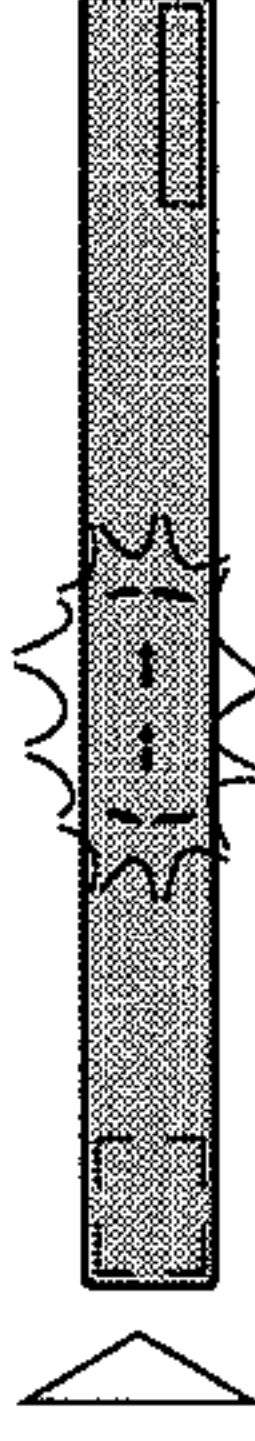
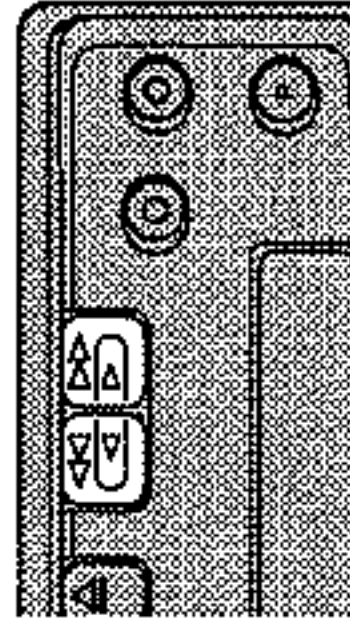
Using the Cassette Player

Fast Forward/Rewind

■ Fast Forward

While "<->" is displayed, the system fast-forwards the cassette tape to the end of the current side.

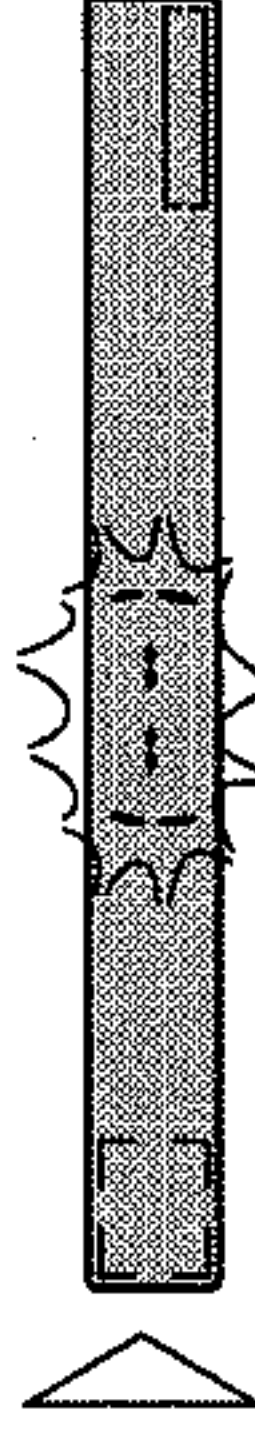
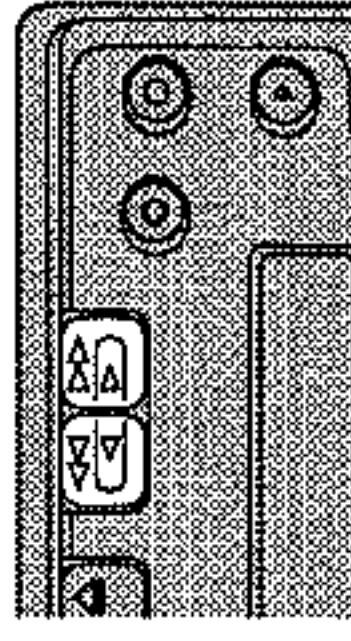
- Fast-forward the cassette tape by pressing the button for the same direction as the tape play indicator.



■ Rewind

While "<->" is displayed, the system rewinds the cassette tape to the beginning of the current side.

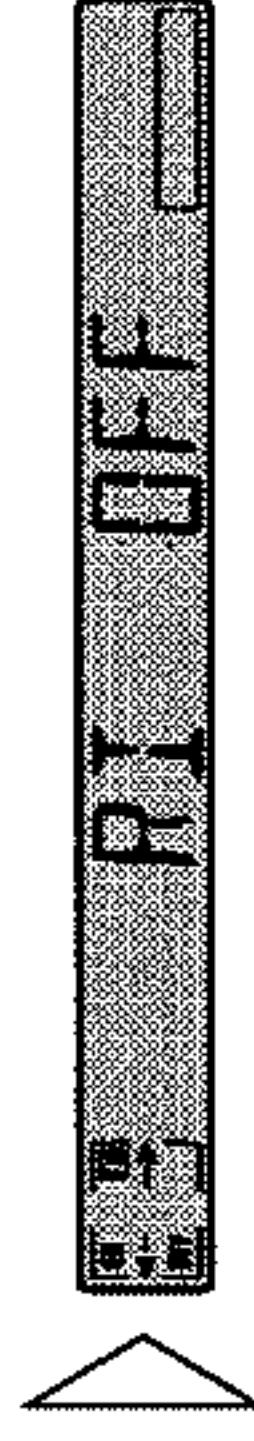
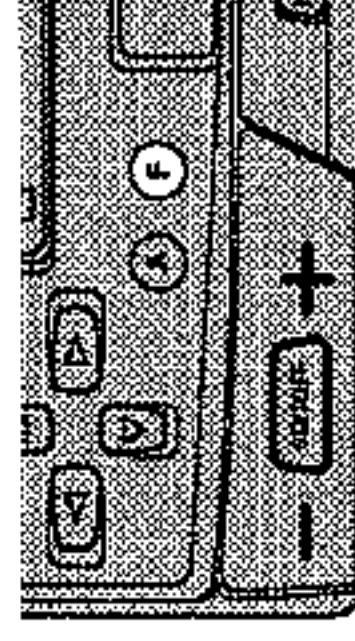
- Rewind the cassette tape by pressing the button for the opposite direction as the tape play indicator.



Entering the Function Menu

In this menu you can select Tape functions.

- Select the Radio Intercept mode in Function Menu.



Note:

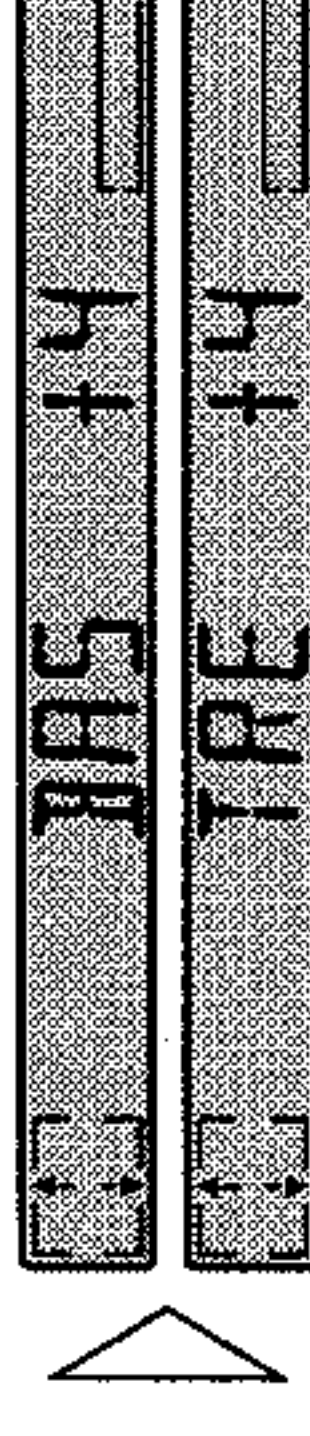
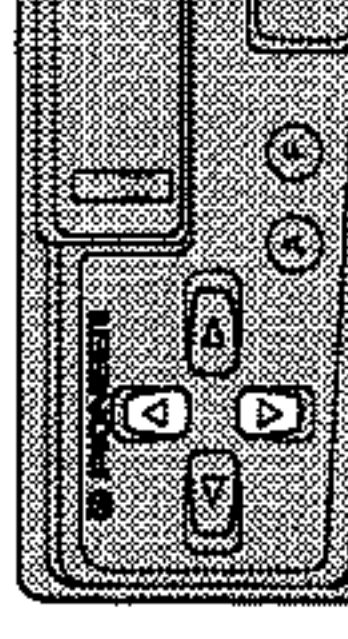
- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.
- This unit's cassette Function Menu enables Radio Intercept mode ON/OFF switching only. If you press the Function button for 2 seconds or more and select the Programmable button Setting mode, you can memorize the Radio Intercept mode ON/OFF setting beforehand. However, switching between ON and OFF is not possible with the Programmable button.
- You can cancel the Programmable button setting mode by pressing the BAND button.

Audio Adjustment

Bass/Treble Adjustment

This product is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes.

1. Select "Bass Adjustment mode" or "Treble Adjustment mode".
After adjustment use the BAND button to return to the normal display.
2. Increase or decrease the intensity of the bass or treble, whichever is selected.



The display shows "+6" - "-6".

3. Repeat steps 1 - 2 above for the other Bass or Treble Adjustment mode.

8.2 SPECIFICATIONS

Specifications

General

Power source 14.4 V DC (10.8 – 15.1 V allowable)
 Grounding system Negative type
 Max. current consumption 8.5 A
 Dimensions
 (mounting size) 178 (W) × 50 (H) × 150 (D) mm
 (front face) 188 (W) × 58 (H) × 19 (D) mm
 Weight 1.2 kg

Amplifier

Maximum power output 35 W × 4
 Continuous power output 22 W × 4
 (DIN45324, +B=14.4 V)
 Load impedance 4 Ω (4 – 8 Ω allowable)
 Tone controls
 (Bass) ±12 dB (100 Hz)
 (Treble) ±12 dB (10 kHz)
 Loudness contour +10 dB (100 Hz), +7 dB (10 kHz)
 (volume: –30 dB)

Cassette player

Tape Compact cassette tape (C-30 – C-90)
 Tape speed 4.76 cm/sec. (+0.14 cm/sec., –0.05 cm/sec.)
 Fast forward/rewinding time Approx. 90 sec. for C-60
 Wow & flutter 0.13% (WRMS)
 Frequency response 40 – 14,000 Hz (±3 dB)
 Stereo separation 45 dB
 Signal-to-noise ratio 52 dB (IEC-A network)

FM tuner

Frequency range 87.5 – 108 MHz
 Usable sensitivity
 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
 50 dB quieting sensitivity 16 dBf (1.7 μV/75 Ω, mono)
 Signal-to-noise ratio 70 dB (IEC-A network)
 Distortion 0.3% (at 65 dBf, 1 kHz, stereo)
 Frequency response 30 – 15,000 Hz (±3 dB)
 Stereo separation 40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 – 1,602 kHz
 Usable sensitivity 18 μV (25 dB) (S/N: 20 dB)
 Selectivity 50 dB (±9 kHz)

LW tuner

Frequency range 153 – 281 kHz
 Usable sensitivity 30 μV (30 dB) (S/N: 20 dB)
 Selectivity 50 dB (±9 kHz)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.