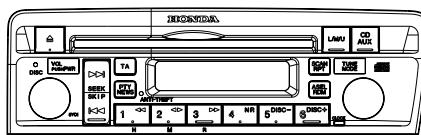


Service Manual

Pioneer

HONDA

DEH-M6006ZH/X1P/EW



ORDER NO.
CRT2657

MULTI-CD CONTROL CD PLAYER WITH RDS TUNER

DEH-M6006ZH
DEH-M6017ZH EW



VEHICLE	DESTINATION	PRODUCED AFTER	HONDA PART No.	ID No.	PIONEER MODEL No.
CIVIC 5door	EUROPE	March 2001	39100-S6A-G500	—	DEH-M6006ZH/X1P/EW
ACCORD	EUROPE	February 2001	39100-S1A-E100	—	DEH-M6017ZH/EW

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech. Module	Remarks
CX-958	CRT2423	S8.1	CD Mech. Module:Circuit Description, Mech.Description, Disassembly

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PIONEER CORPORATION

4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan

PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.

PIONEER EUROPE NV Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium

PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

● CD Player Service Precautions

1. For pickup unit(CXX1285) handling, please refer to "Disassembly"(see page 55)

During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).

2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
3. Please checking the grating after changing the service pickup unit(see page 51).

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.

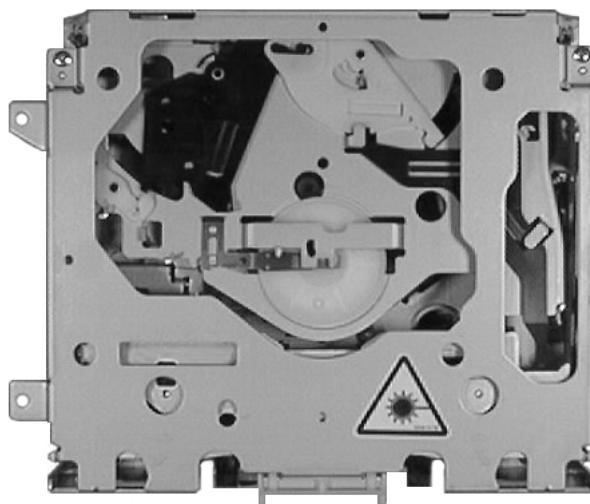
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

1. Safety Precautions for those who Service this Unit.

- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
 2. During repair or tests, do not view laser beam for 10 seconds or longer.
2. A "CLASS 1 LASER PRODUCT" label is affixed to the top of the player.
3. The triangular label is attached to the mechanism unit frame.

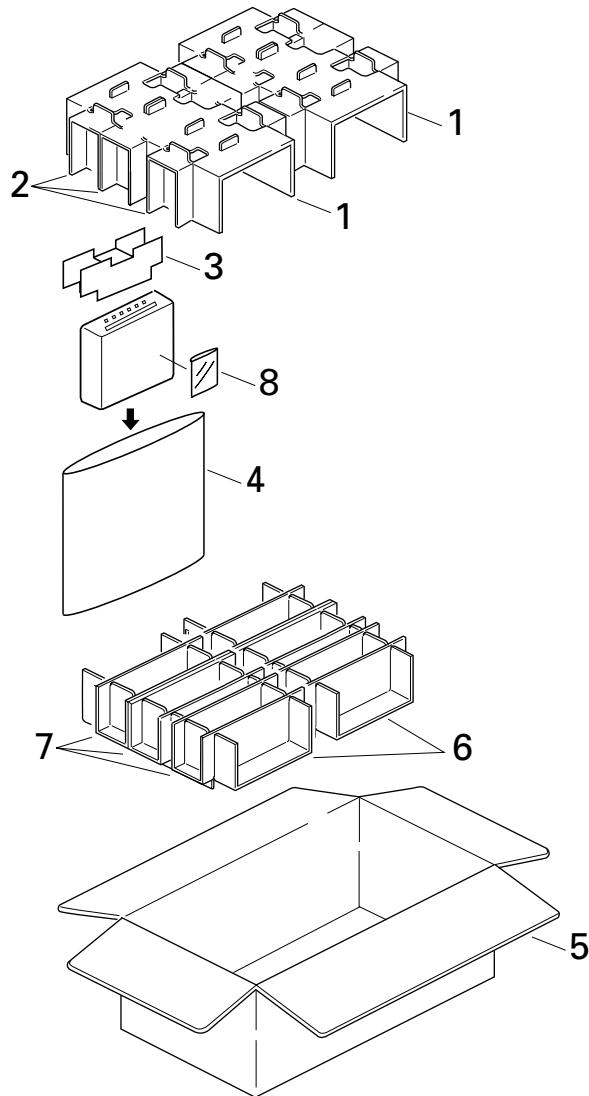
**4. Specifications of Laser Diode**

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 800 nanometers

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



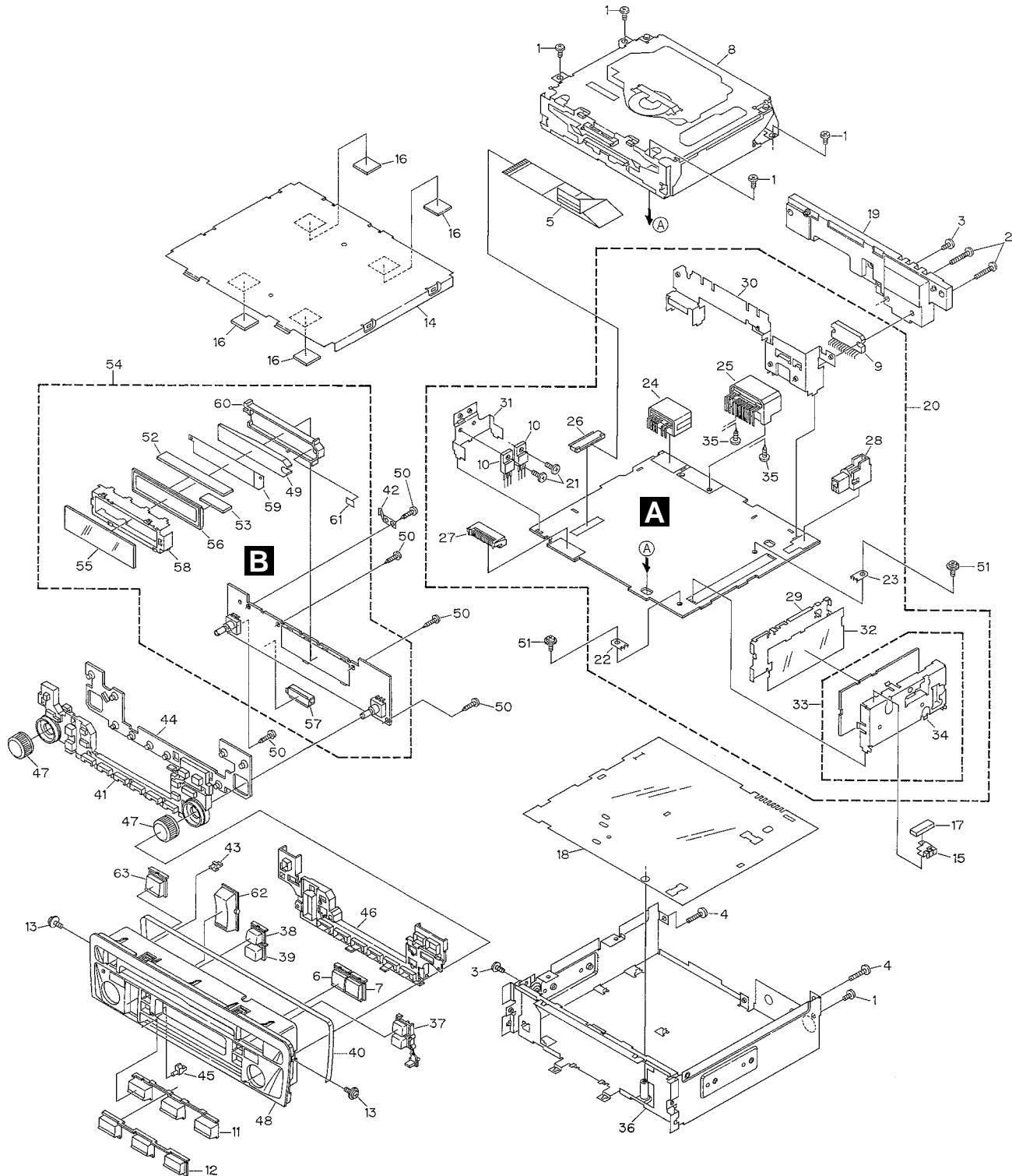
NOTE:

- 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.
	DEH-M6006ZH/X1P/EW	DEH-M6017ZH/EW
1	Protector	UHP2311
2	Protector	UHP2312
3	Protector	UHP2315
4	Polyethylene Bag	UEG1042
5	Contain Box	UHL-091
6	Protector	UHP2313
7	Protector	UHP2314
8-1	Polyethylene Bag	UEG1229
8-2	ID Card	CEE1018
		CHP2311
		CHP2312
		CHP2315
		CEG-162
		CHL4294
		CHP2313
		CHP2314
		CEG1229
		CEE1018

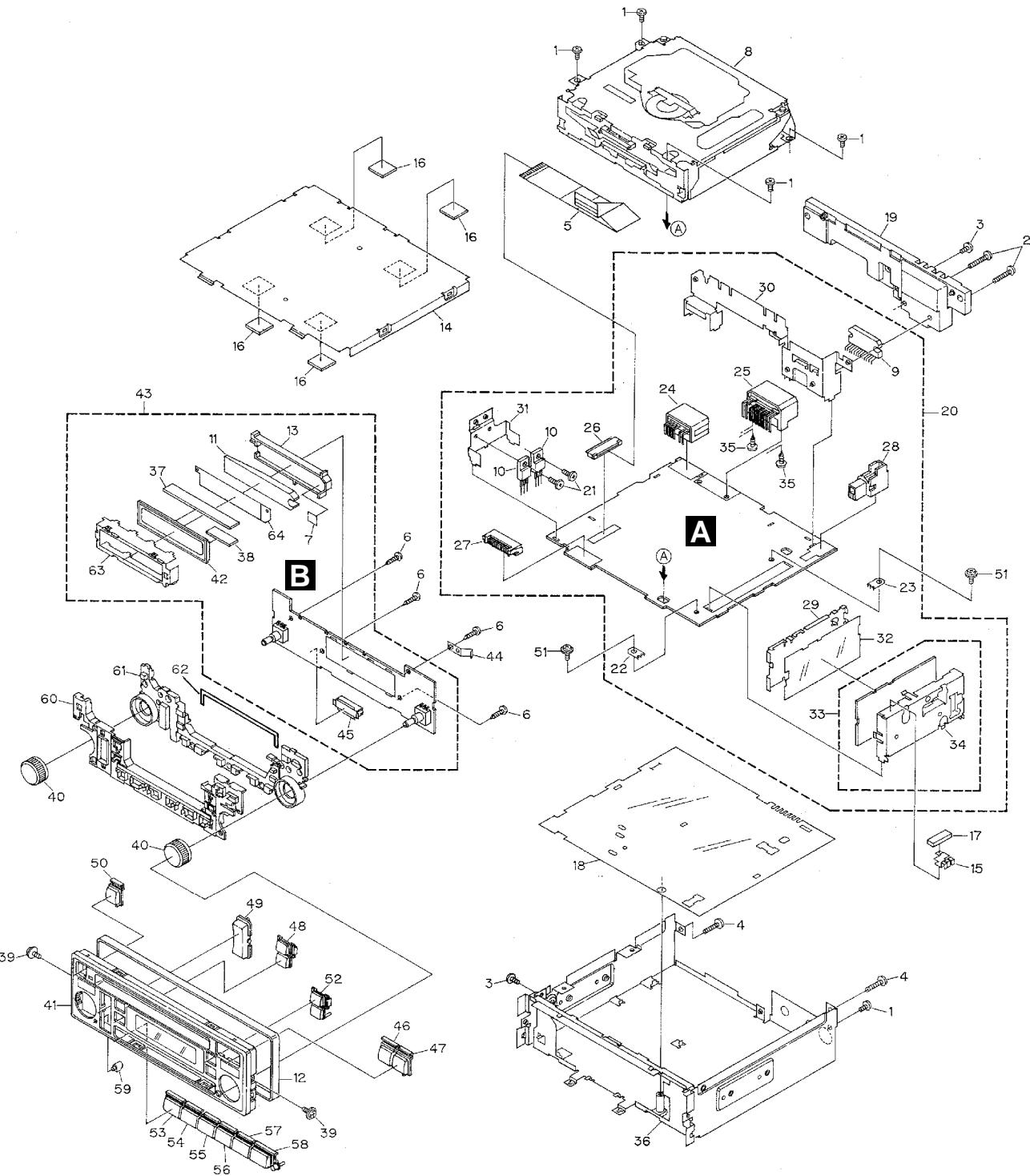
2.2 EXTERIOR(DEH-M6006ZH)



● EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P060FMC	36	Chassis Unit	CXB5428
2	Screw	BSZ26P150FMC	37	Button	CAC6573
3	Screw	BSZ30P060FMC	38	Button(TA)	CAC6574
4	Screw	BSZ30P120FMC	39	Button(PTY,NEWS)	CAC6575
5	Cable	CDE6645	40	Cushion	CNM6939
6	Button(L/M/U)	CAC6568	41	Lighting Conductor	CNV6159
7	Button(CD,AUX)	CAC6569	42	Conductor	CNC9043
8	CD Mechanism Module(S8.1)	CKX5201	43	Lighting Conductor	CNV6160
9	IC(IC901)	TDA7384	44	Rubber	CNV6173
10	Transistor(Q801,805)	2SD2396	45	Lighting Conductor	CNV6294
11	Button	CAC6570	46	Holder	CNV6295
12	Button	CAC6571	47	Knob Assy	CXB5429
13	Screw	ISS30P060FMC	48	Grille Unit	CXB5431
14	Case	CNB2560	49	Lighting Conductor	CNV6161
15	Holder	CNC5704	50	Screw	BPZ20P080FMC
16	Cushion	CNM7071	51	Screw	ISS26P055FUC
17	Cushion	CNM4870	52	Connector	CNV6163
18	Insulator	CNM6862	53	Connector	CNV6293
19	Heat Sink	CNR1565	54	Keyboard Unit	UWM7109
20	Tuner Amp Unit	UWM7108	55	Plate	CAH1723
21	Screw	BSZ26P060FMC	56	LCD(LCD951)	CAW1588
22	Terminal(CN501)	CKF1059	57	Socket(CN951)	CKS3551
23	Terminal(CN502)	CKF1059	58	Holder	CNC8745
24	Connector(CN901)	CKM1208	59	Plate	CNM7308
25	Plug(CN902)	CKM1283	60	Holder	CNV6162
26	Connector(CN601)	CKS1962	61	Spacer	CNM7313
27	Plug(CN602)	CKS3538	62	Button(SEEK/SKIP)	CAC6572
28	Antenna Jack(ANT501)	CKX1060	63	Button(EJECT)	CAC6567
29	Holder	CNC7533			
30	Holder	CNC8746			
31	Holder	CNC8747			
32	Insulator	CNM5967			
33	FM/AM Tuner Unit	UWE1576			
34	Holder	CNC7532			
35	Screw	PRZ30P060FSN			

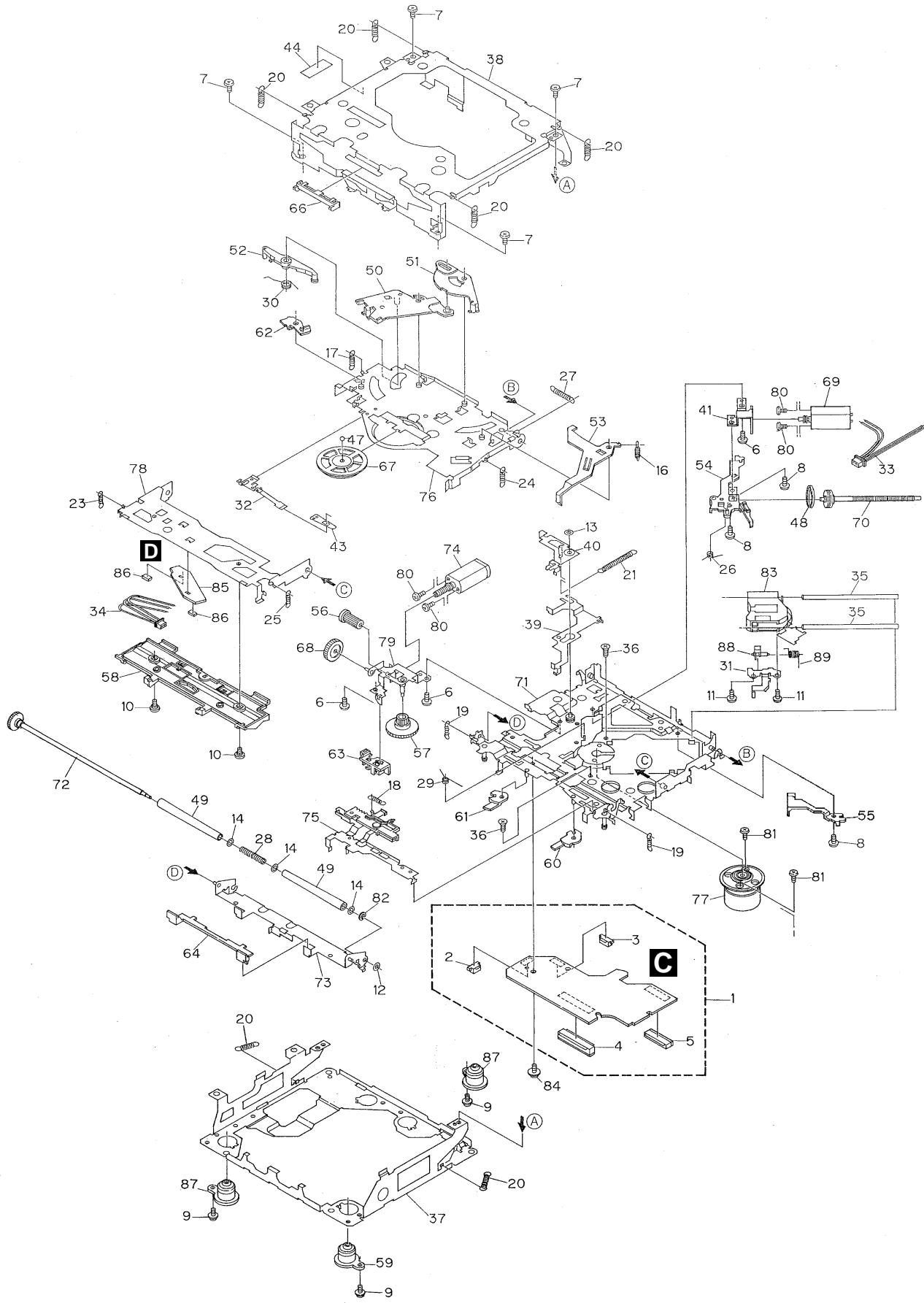
2.3 EXTERIOR(DEH-M6017ZH)



● EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P060FMC	36	Chassis Unit	CXB6229
2	Screw	BSZ26P150FMC	37	Connector	CNV6163
3	Screw	BSZ30P060FMC	38	Connector	CNV6293
4	Screw	BSZ30P120FMC	39	Screw	ISS26P060FMC
5	Cable	CDE6645	40	Knob Assy	CXB6649
6	Screw	BPZ20P080FMC	41	Grille Unit	CXB7646
7	Spacer	CNM7313	42	LCD(LCD951)	CAW1588
8	CD Mechanism Module(S8.1)	CKX5201	43	Keyboard Unit	CWM7351
9	IC(IC901)	TDA7384	44	Conductor	CNC9043
10	Transistor(Q801,805)	2SD2396	45	Socket(CN951)	CKS3551
11	Lighting Conductor	CNV6161	46	Button(CD,AUX)	CAC6827
12	Cushion	CNY-197	47	Button(L/M/U)	CAC6829
13	Holder	CNV6162	48	Button	CAC6830
14	Case	CNB2560	49	Button(SEEK,SKIP)	CAC6831
15	Holder	CNC5704	50	Button(EJECT)	CAC6838
16	Cushion	CNM7071	51	Screw	ISS26P055FUC
17	Cushion	CNM4870	52	Button(TA,PTY/NEWS)	CAC6888
18	Insulator	CNM6862	53	Button(REW)	CAC6916
19	Heat Sink	CNR1565	54	Button(PLAY/PROG)	CAC6917
20	Tuner Amp Unit	CWM7372	55	Button(FF)	CAC6918
21	Screw	BSZ26P060FMC	56	Button(NR)	CAC6919
22	Terminal(CN501)	CKF1059	57	Button(DISC-)	CAC6920
23	Terminal(CN502)	CKF1059	58	Button(DISC+)	CAC6921
24	Connector(CN901)	CKM1208	59	Lighting Conductor	CNV6299
25	Plug(CN902)	CKM1283	60	Holder	CNV6482
26	Connector(CN601)	CKS1962	61	Lighting Conductor	CNV6481
27	Plug(CN602)	CKS3538	62	Cushion	CNM7388
28	Antenna Jack(ANT501)	CKX1060	63	Holder	CNC9251
29	Holder	CNC7533	64	Plate	CNM6684
30	Holder	CNC8746			
31	Holder	CNC8747			
32	Insulator	CNM5967			
33	FM/AM Tuner Unit	CWE1576			
34	Holder	CNC7532			
35	Screw	PRZ30P060FSN			

2.4 CD MECHANISM MODULE



● CD MECHANISM MODULE SECTION PARTS LIST

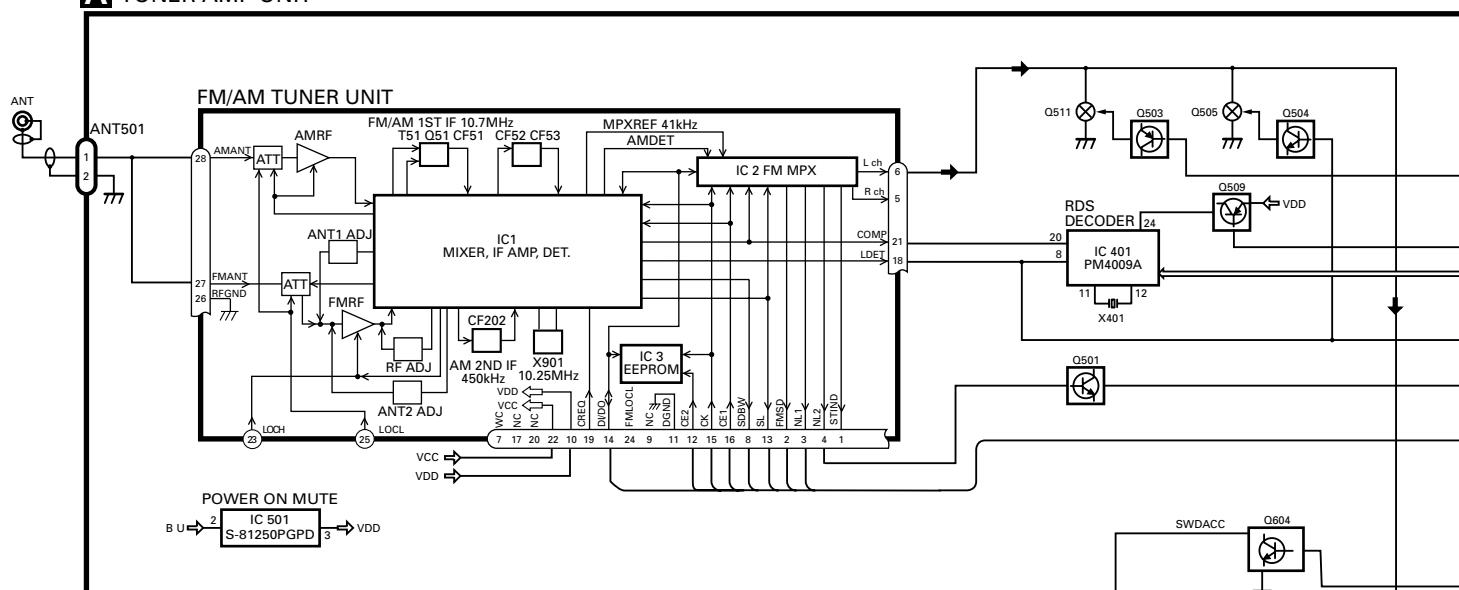
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
1	Control Unit	CWX2411		46		
2	Connector(CN802)	CKS2192		47	Ball	CNR1189	
3	Connector(CN801)	CKS2193		48	Belt	CNT1086	
4	Connector(CN701)	CKS2773		49	Roller	CNV4509	
5	Connector(CN101)	CKS3486		50	Arm	CNV6037	
6	Screw	BMZ20P030FMC		51	Arm	CNV5247	
7	Screw	BSZ20P040FMC		52	Arm	CNV5248	
8	Screw(M2x3)	CBA1077		53	Arm	CNV5249	
9	Screw(M2x5)	EBA1028		54	Guide	CNV5254	
10	Screw	CBA1243		55	Guide	CNV5255	
11	Screw(M2x4)	CBA1362		56	Gear	CNV5257	
12	Washer	CBF1037		57	Gear	CNV5256	
13	Washer	CBF1038		58	Guide	CNV6272	
14	Washer	CBF1060		59	Damper	CNV6010	
15			60	Arm	CNV6096	
16	Spring	CBH2079		61	Arm	CNV6031	
17	Spring	CBH2117		62	Arm	CNV6211	
18	Spring	CBH2314		63	Guide	CNV6012	
19	Spring	CBH2110		64	Guide	CNV5510	
20	Spring	CBH2282		65		
21	Spring	CBH2318		66	Guide	CNV5751	
22			67	Clamper	CNV6013	
23	Spring	CBH2324		68	Gear	CNV5813	
24	Spring	CBH2118		69	Motor Unit(M1)	CXB2190	
25	Spring	CBH2161		70	Screw Unit	CXB5892	
26	Spring	CBH2163		71	Chassis Unit	CXB4797	
27	Spring	CBH2189		72	Gear Unit	CXB4728	
28	Spring	CBH2377		73	Arm Unit	CXB5753	
29	Spring	CBH2260		74	Motor Unit(M2)	CXB2195	
30	Spring	CBH2262		75	Lever Unit	CXB4730	
31	Bracket	CNC8568		76	Arm Unit	CXB4731	
32	Spring	CBL1369		77	Motor Unit(M3)	CXB2562	
33	Connector	CDE5531		78	Arm Unit	CXB4732	
34	Connector	CDE5532		79	Bracket Unit	CXB4795	
35	Shaft	CLA3894		80	Screw	JFZ20P025FMC	
36	Screw(M2.6x6)	CBA1458		81	Screw	JGZ17P025FZK	
37	Frame	CNC8565		82	Washer	YE20FUC	
38	Frame	CNC8749		83	Pickup Unit(Service)(P8)	CXX1285	
39	Lever	CNC9265		84	Screw	IMS26P030FMC	
40	Arm	CNC8663		*	85	PCB	CNX2982
41	Bracket	CNC8567		86	Photo-transistor(Q1, 2)	CPT230SX-TU	
42			87	Damper	CNV6011	
43	Spacer	CNM3315		88	Rack	CNV6014	
44	Sheet	CNM6659		89	Spring	CBH2315	
45						

DEH-M6006ZH,M6017ZH

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

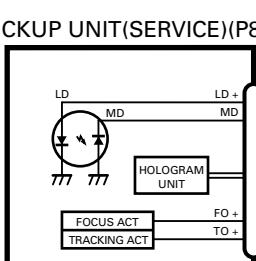
3.1 BLOCK DIAGRAM

A TUNER AMP UNIT

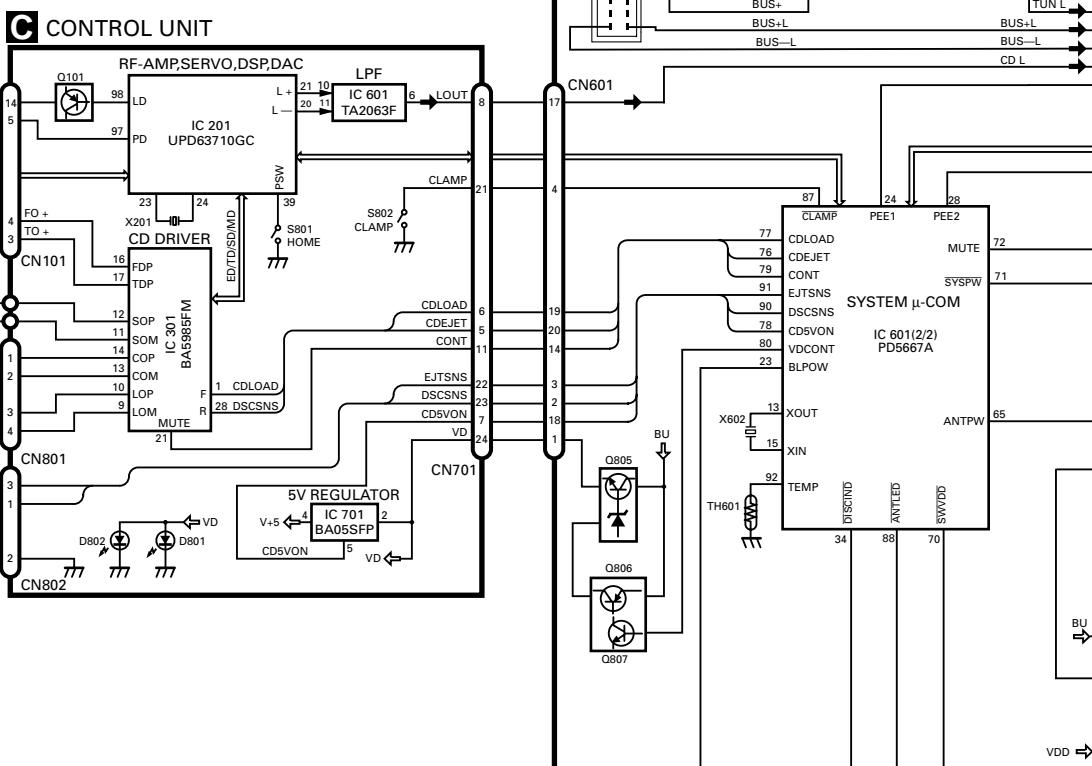


B

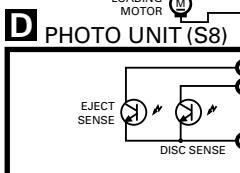
PICKUP UNIT(SERVICE)(P8)



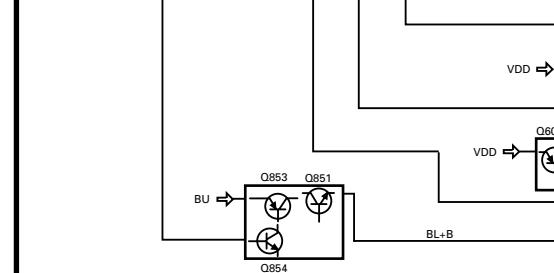
C CONTROL UNIT



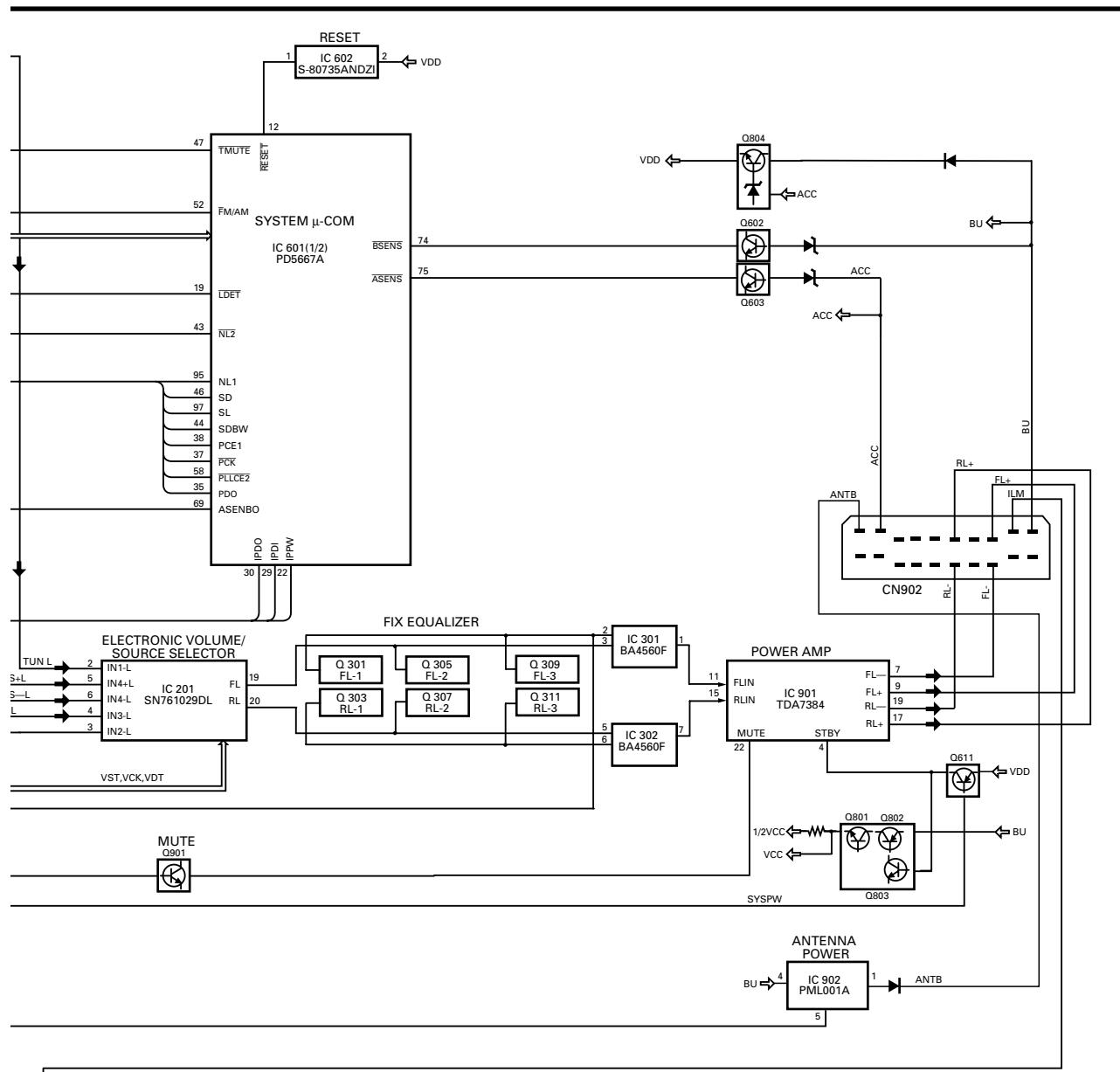
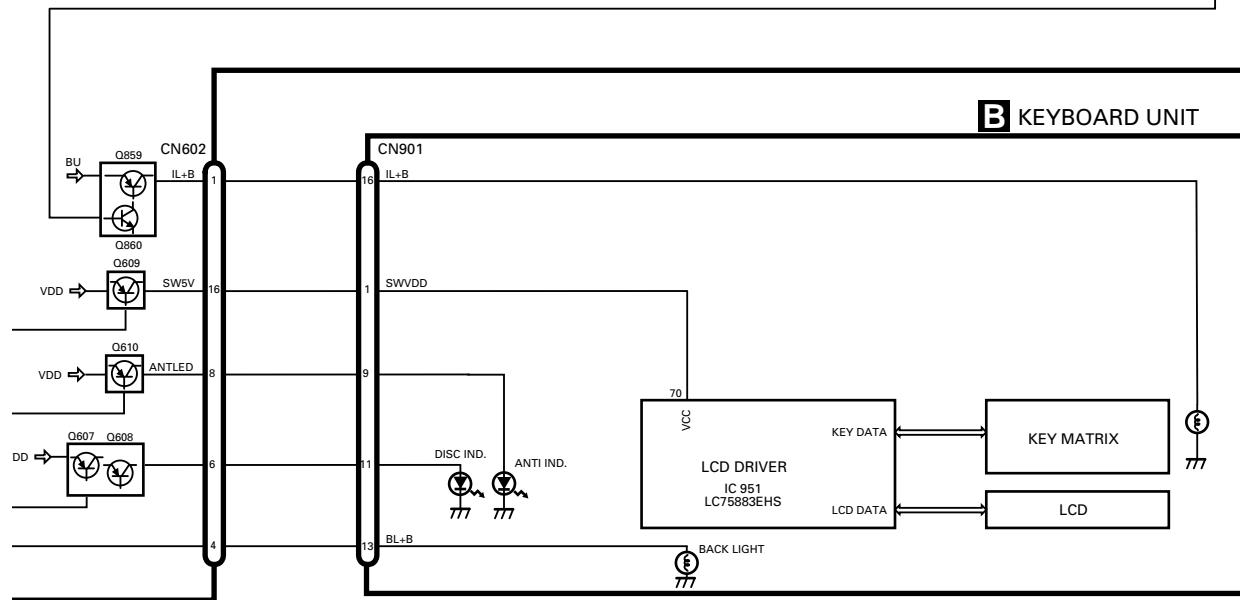
C



D PHOTO UNIT (S8)



D

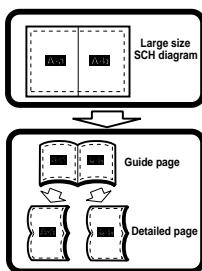
**B KEYBOARD UNIT**

DEH-M6006ZH,M6017ZH

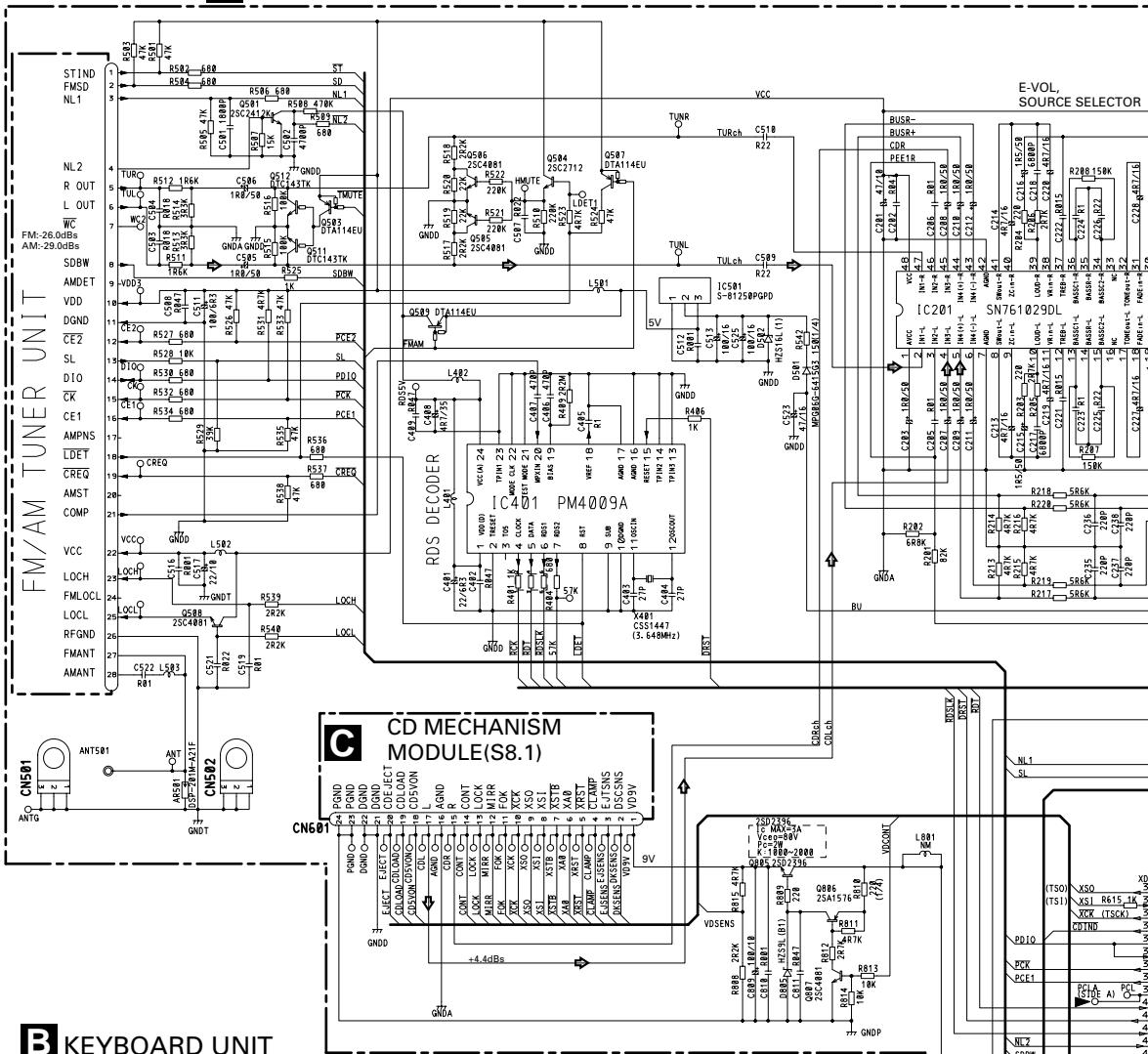
3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(DEH-M6006ZH)

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

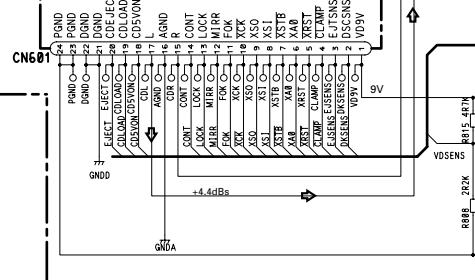
A TUNER AMP UNIT



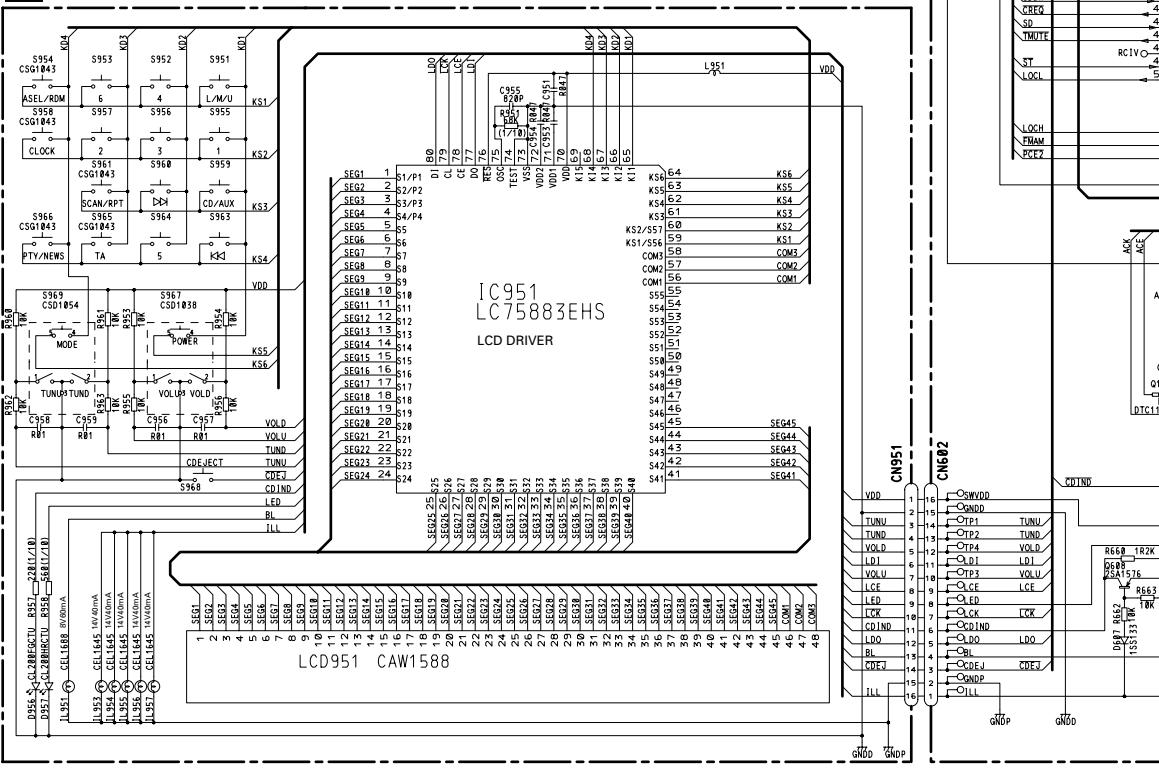
A-a



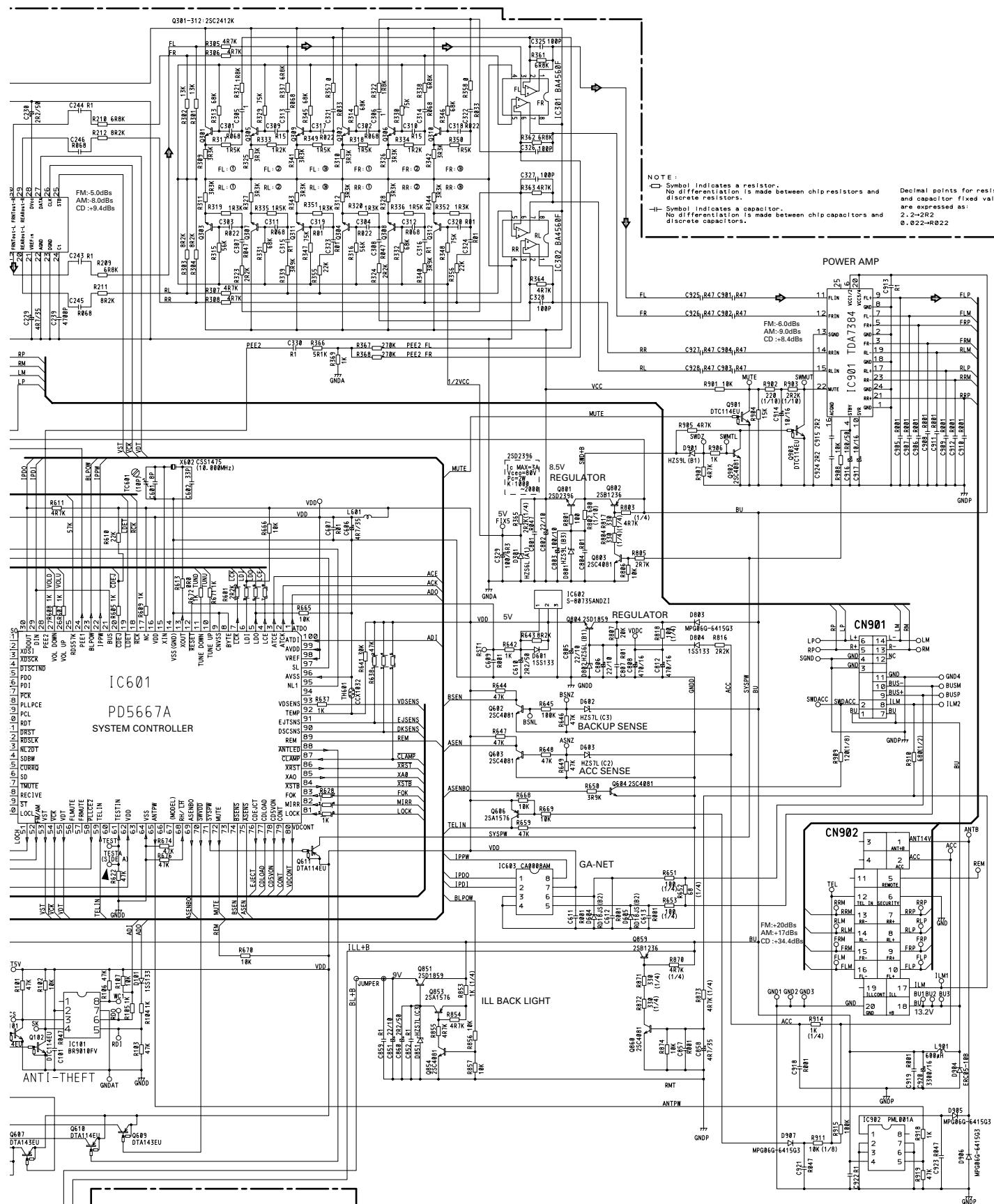
C CD MECHANISM MODULE(S8.1)



B KEYBOARD UNIT



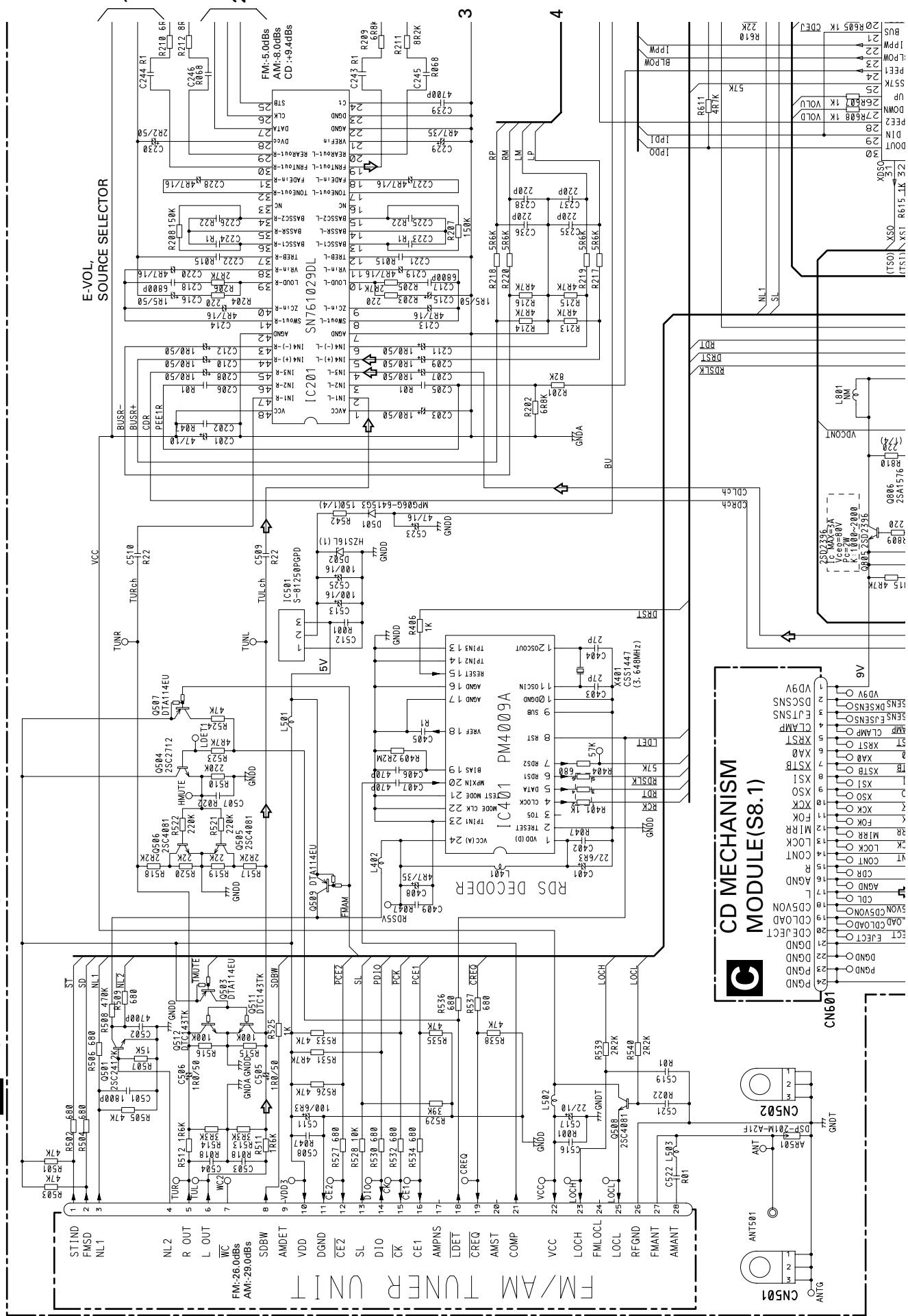
A-b



A

A TUNER AMP UNIT

A-a A-b



A-a

14

A

B

C

D

3

4

1

2

4

1

2

3

4

A-a A-b

A

B

C

D

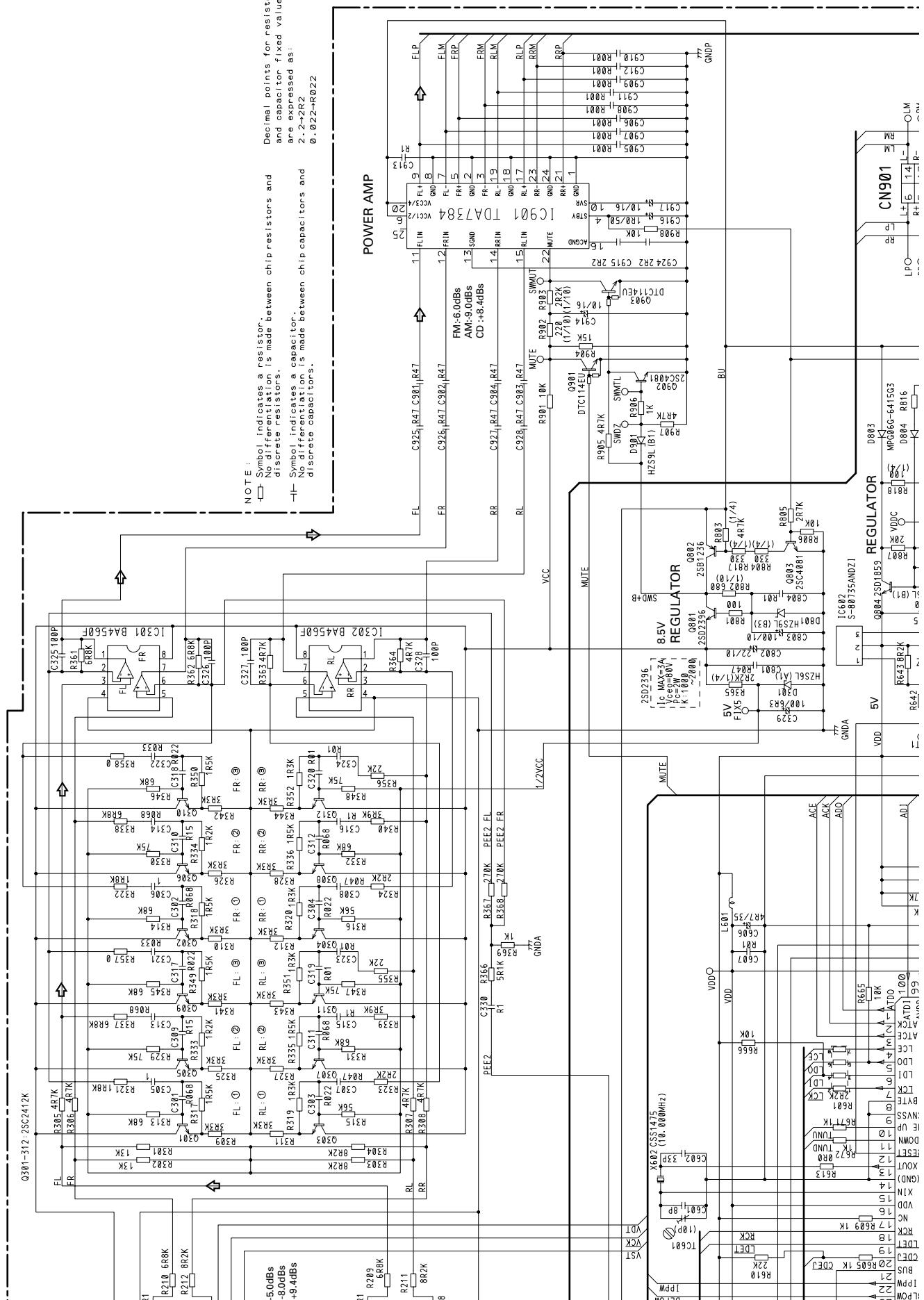
A-b

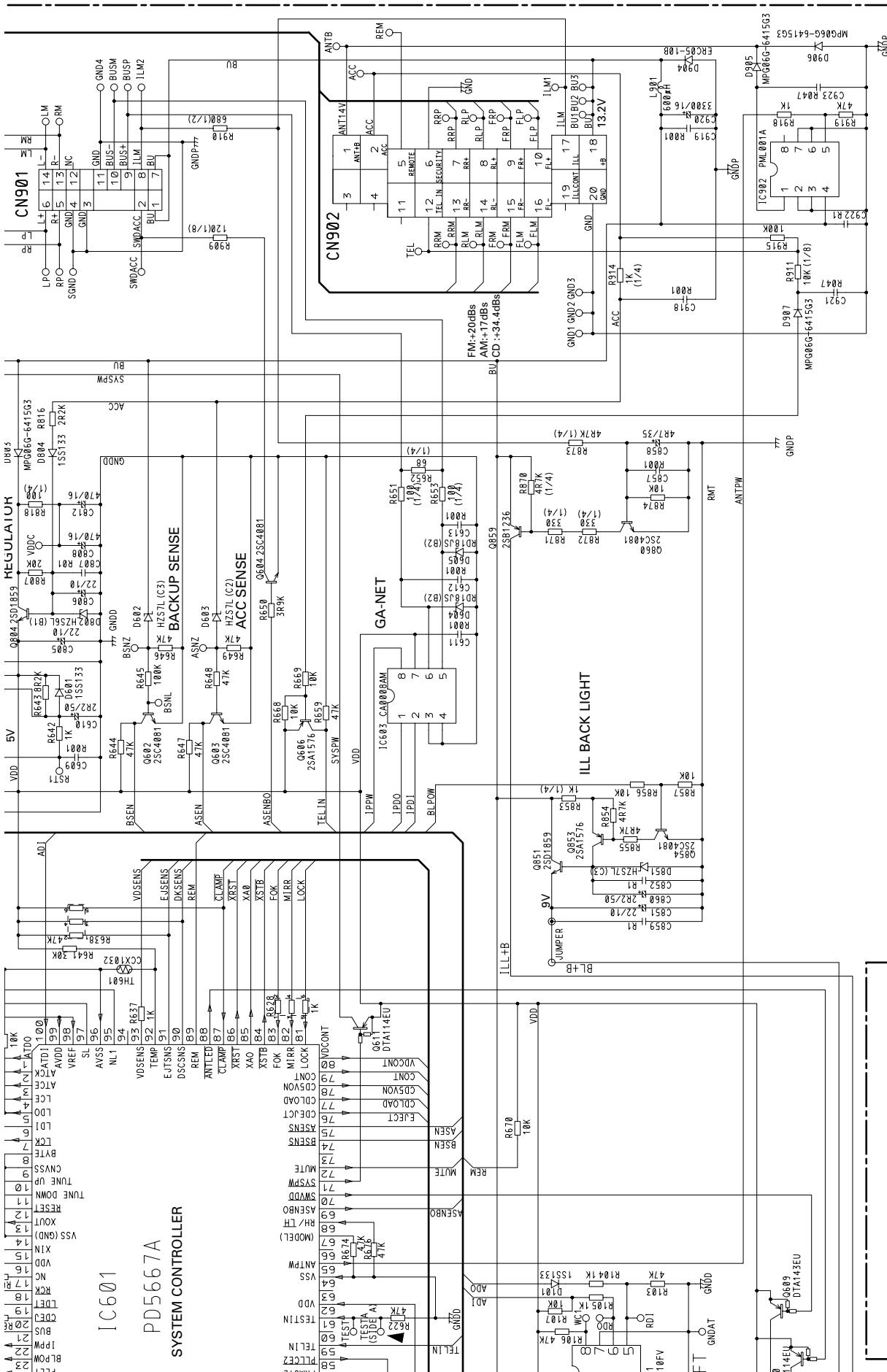
1

2

3

4





A-b

A

B

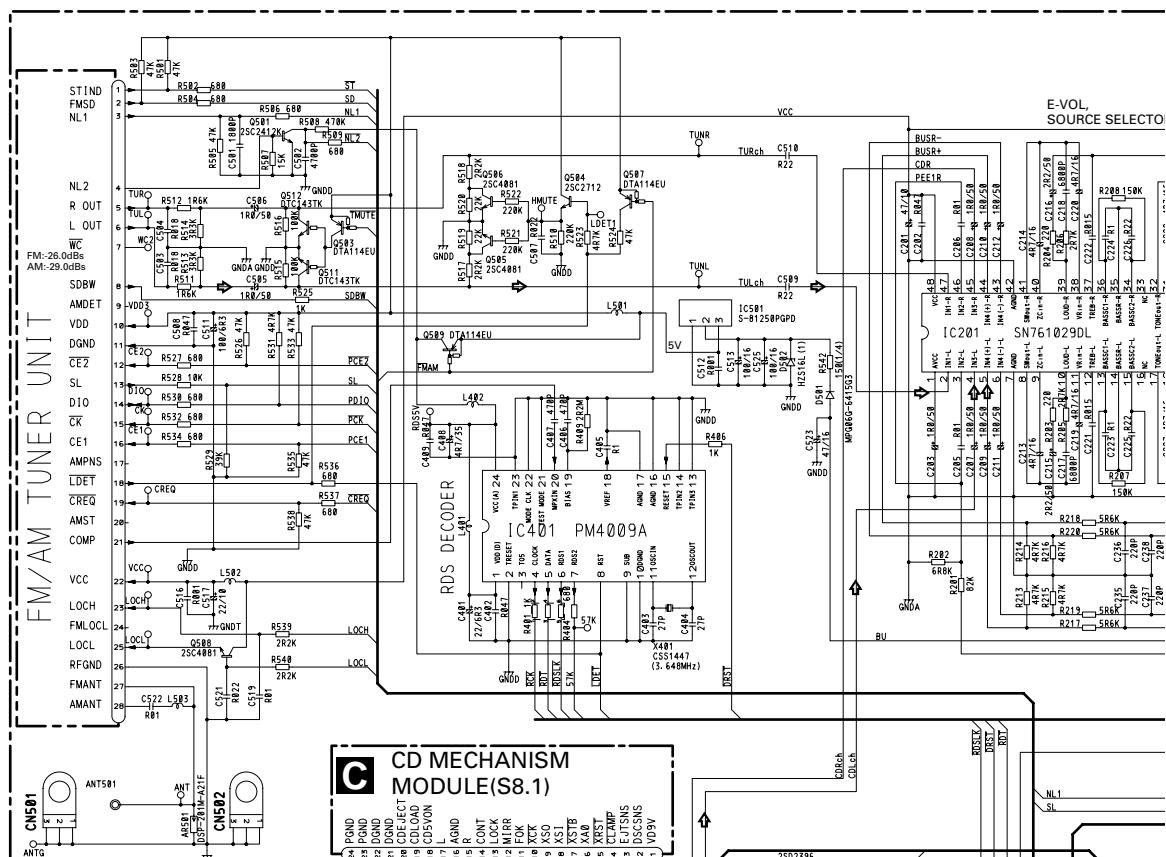
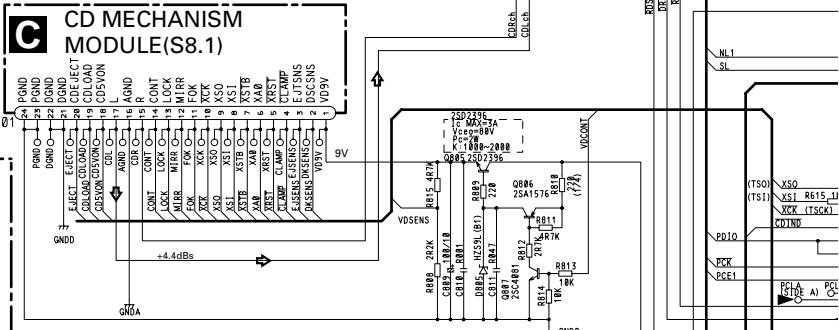
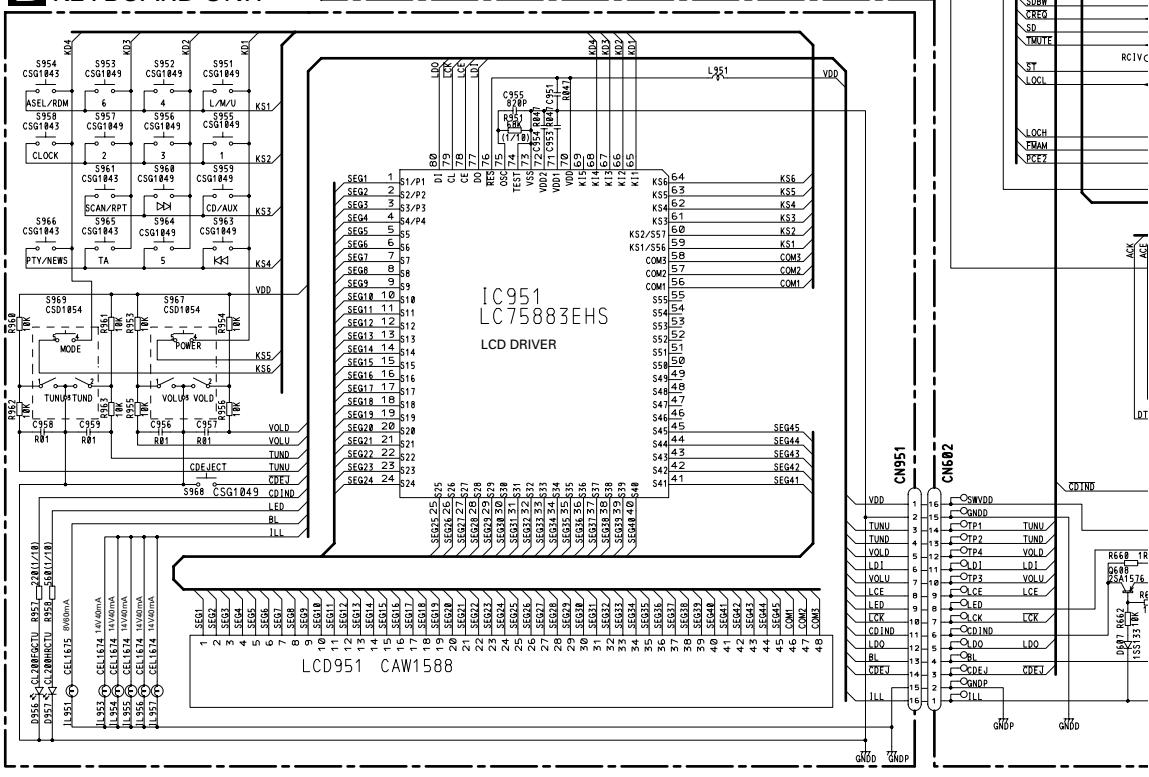
C

D

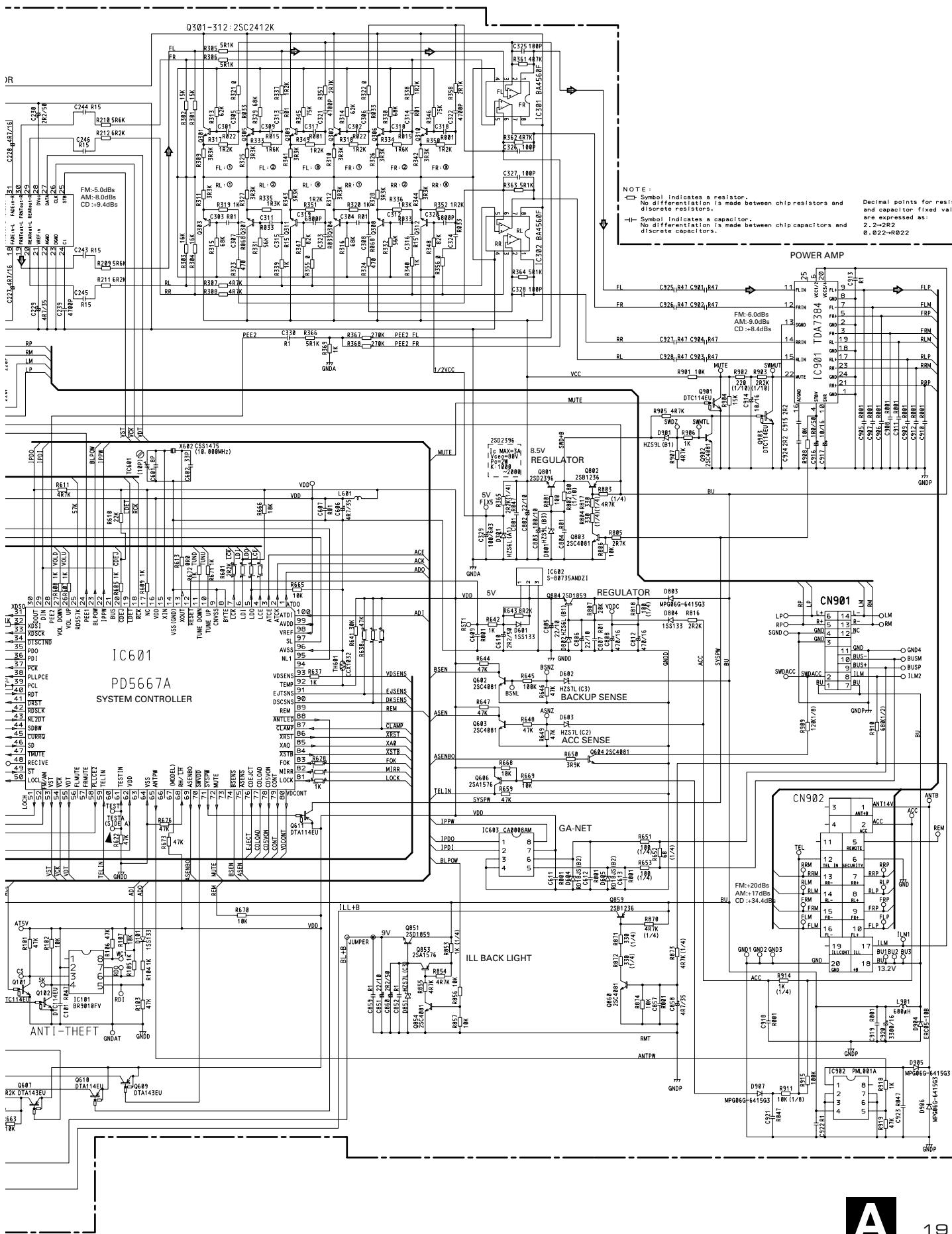
A-b

17

3.3 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(DEH-M6017ZH)

A-a**A** TUNER AMP UNIT**C** CD MECHANISM MODULE(S.8.1)**B** KEYBOARD UNIT**A** **B**

A-b

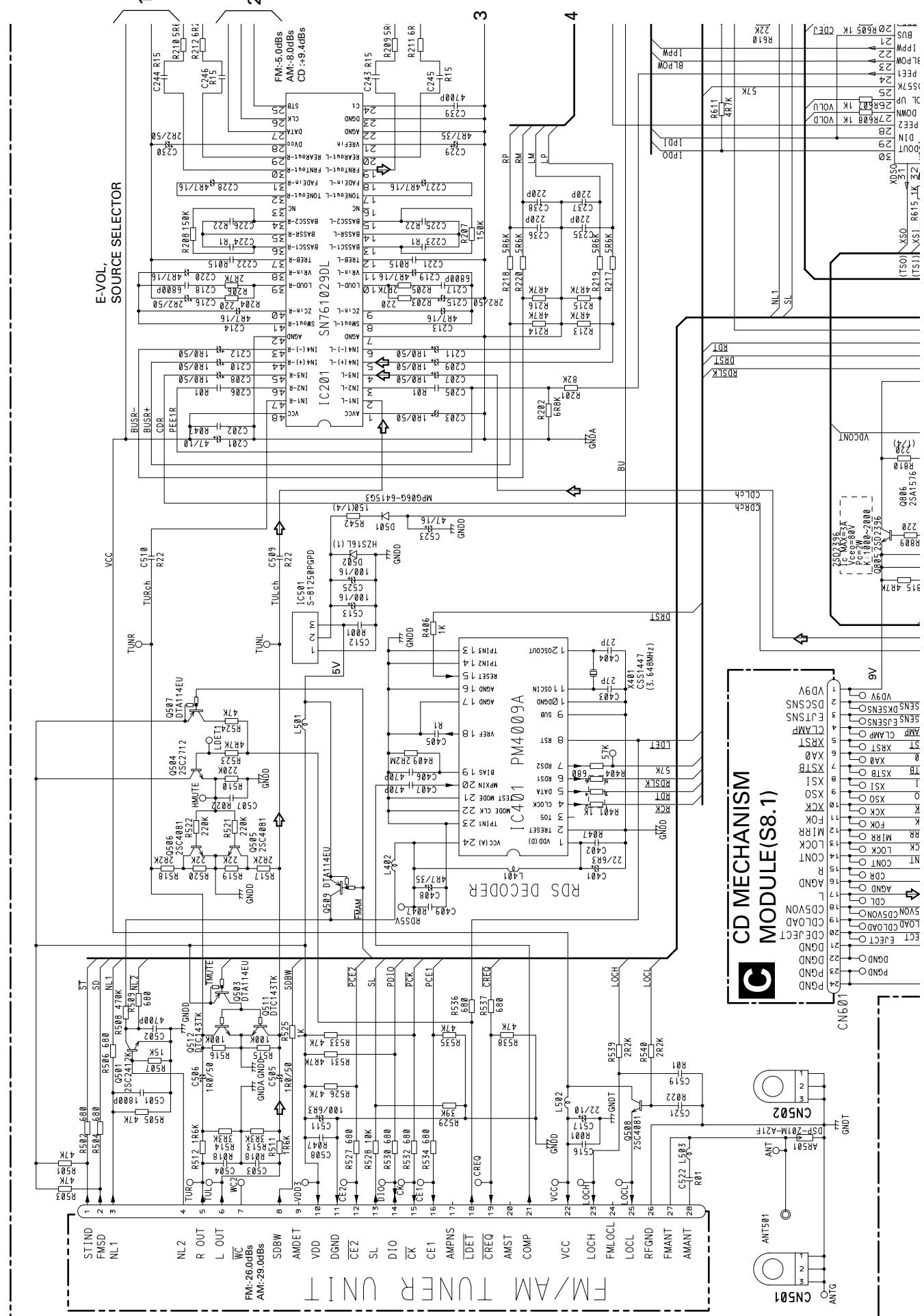


19

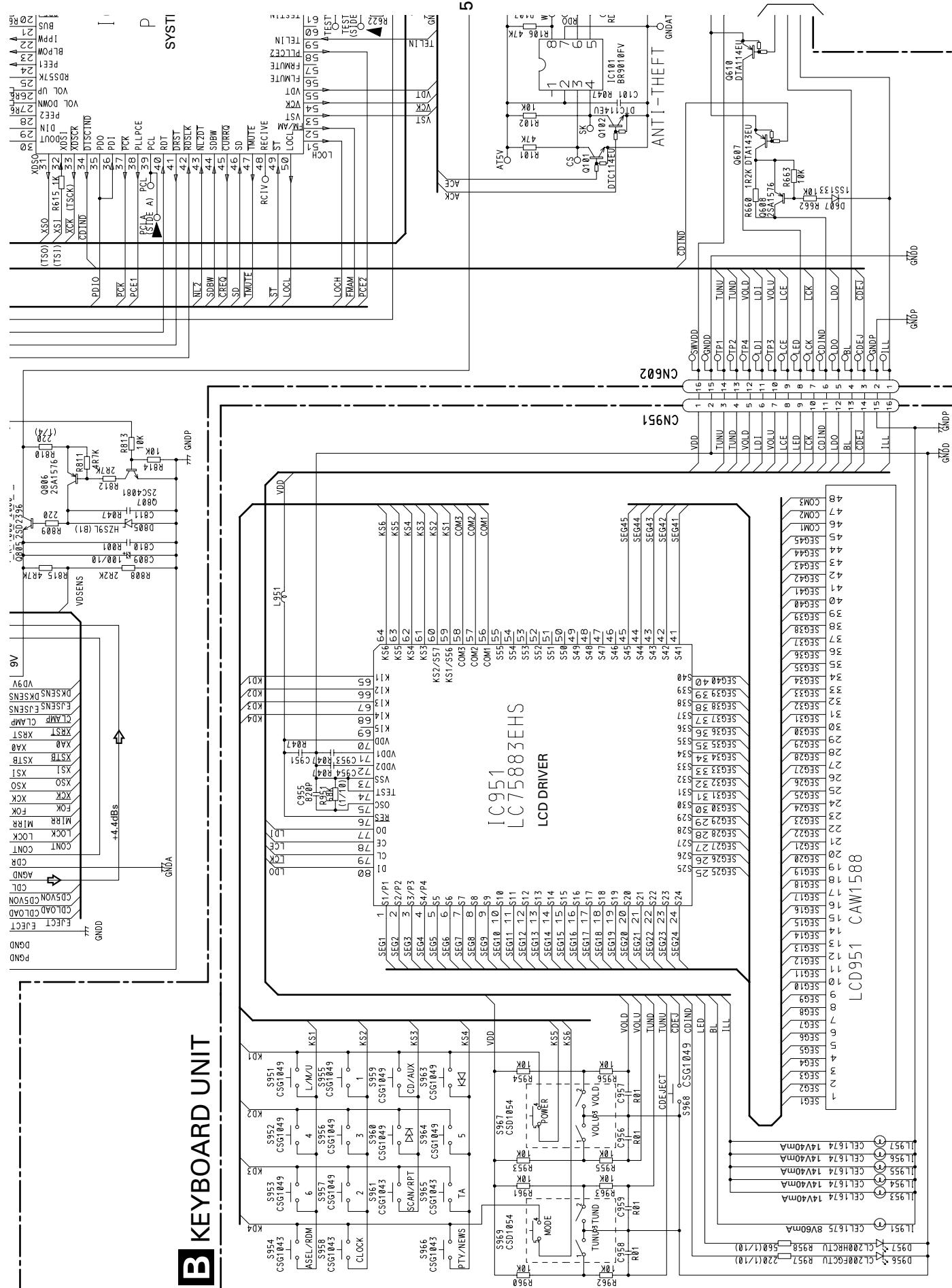
A

A TUNER AMP UNIT

A-a A-b



A-a



B KEYBOARD UNIT

A-a A-b

A

B

C

D

A-b

1

2

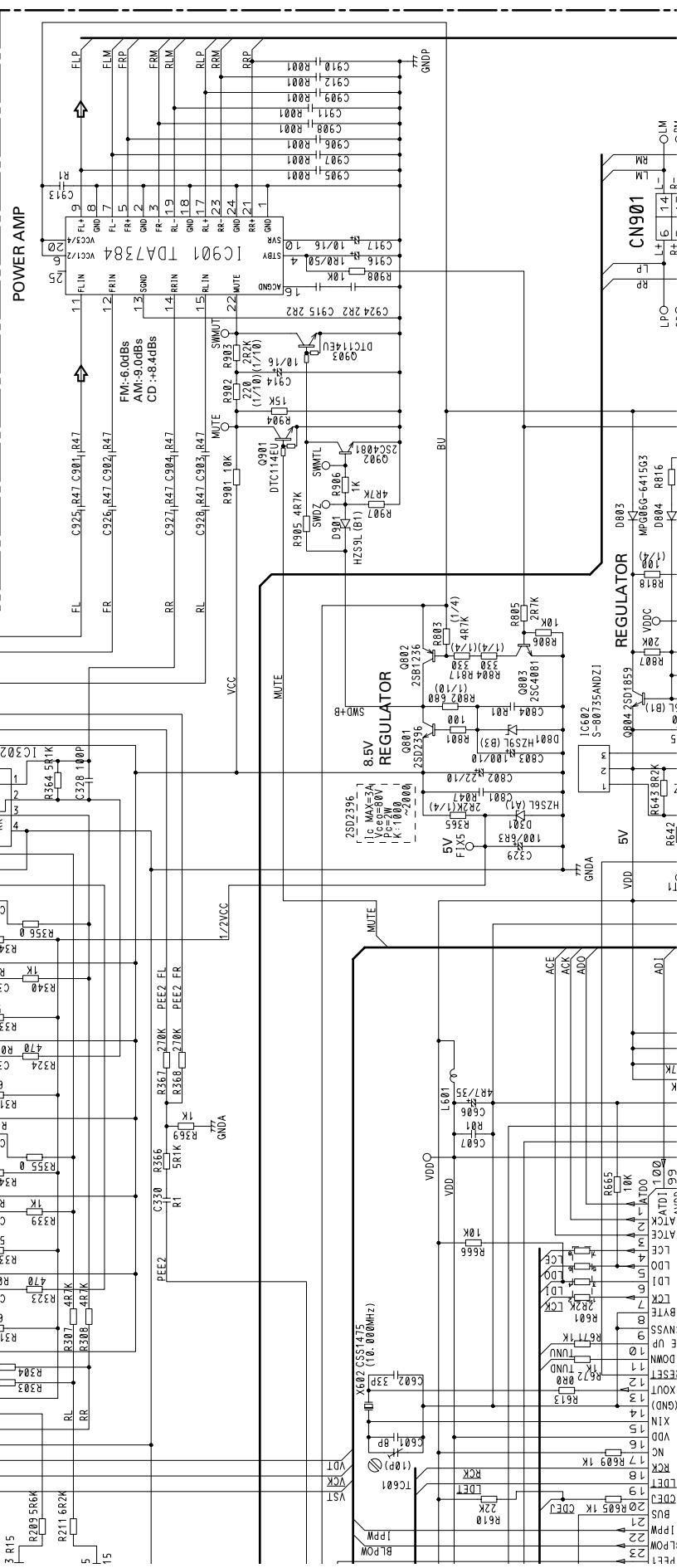
3

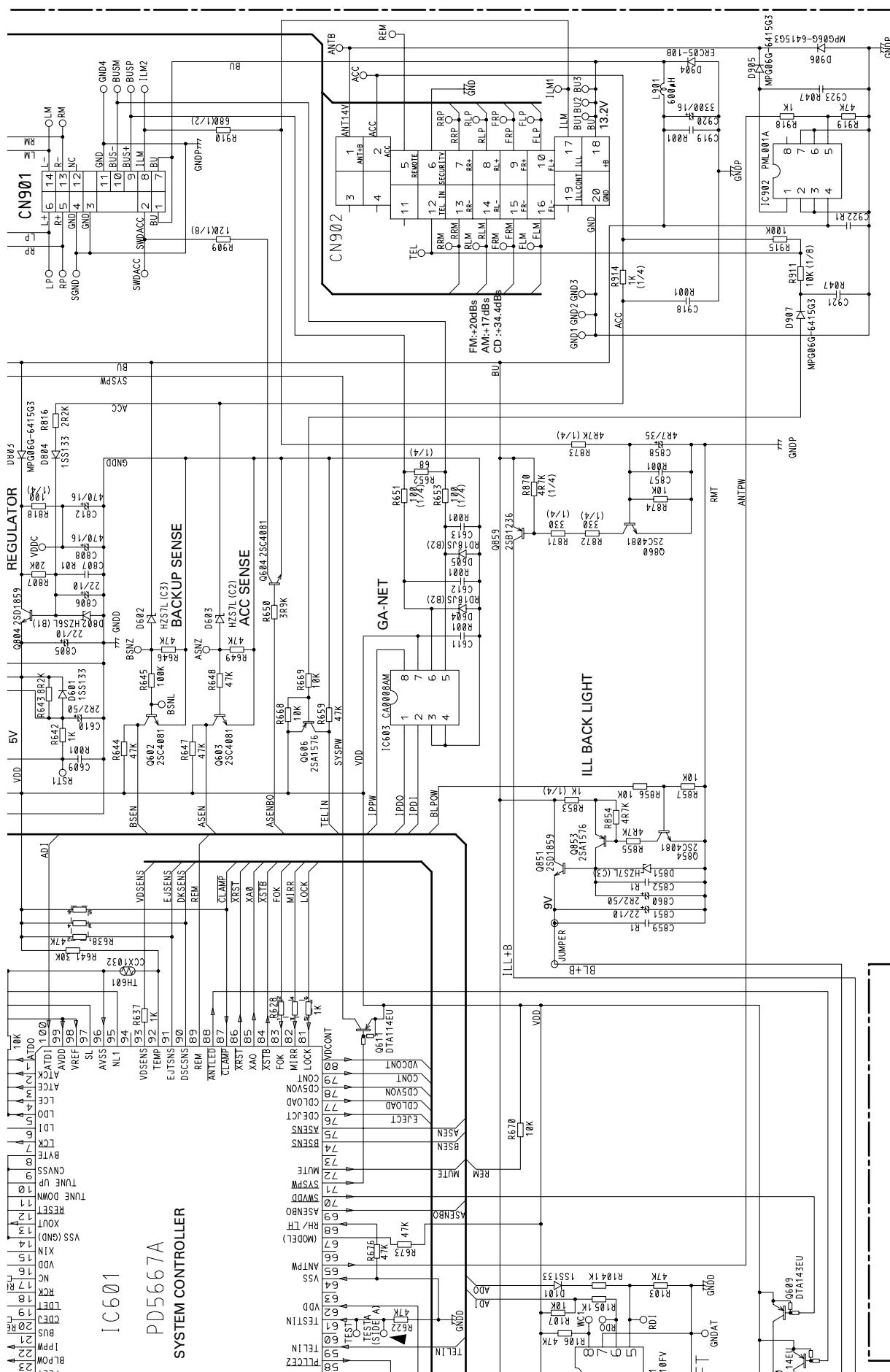
4

NOTE :
 -□- Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 -II- 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

2.2=2R2
 0.022=R022





A-a A-b

A

B

C

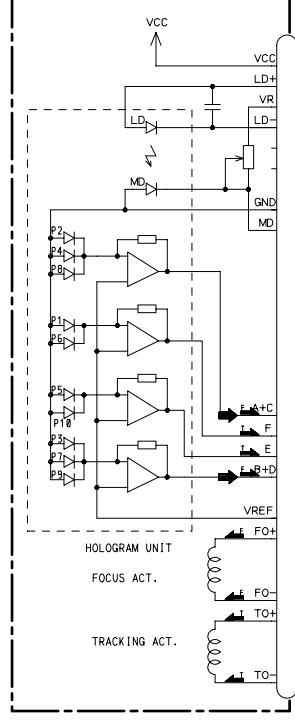
D

A-b

D3

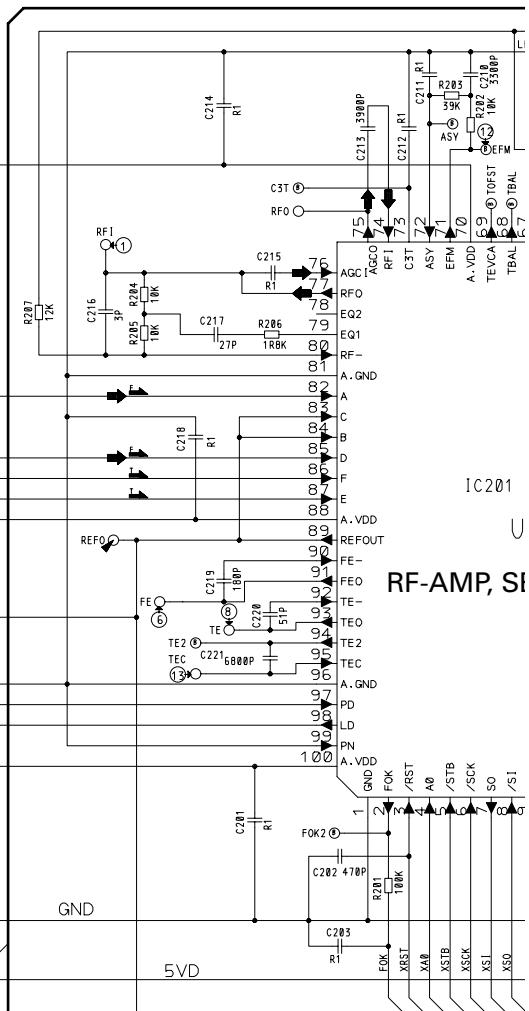
8

3.4 CD MECHANISM MODULE

C CONTROL UNITPICKUP UNIT
(SERVICE)(P8)

CN101

5VA



RF-AMP, SI

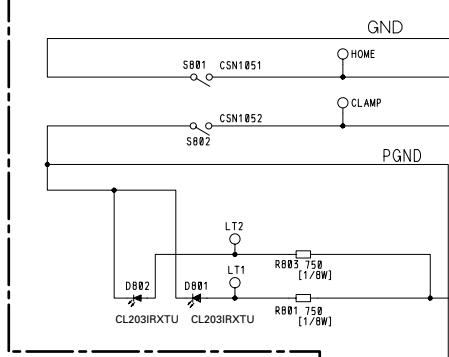


PHOTO UNIT(S8)

CN802

Q1 CPT230SX-TU Q2 CPT230SX-TU

SPINDLE MOTOR M3 CXB2562

CARRIAGE MOTOR M1 CXB2190

LOADING MOTOR M2 CXB2195

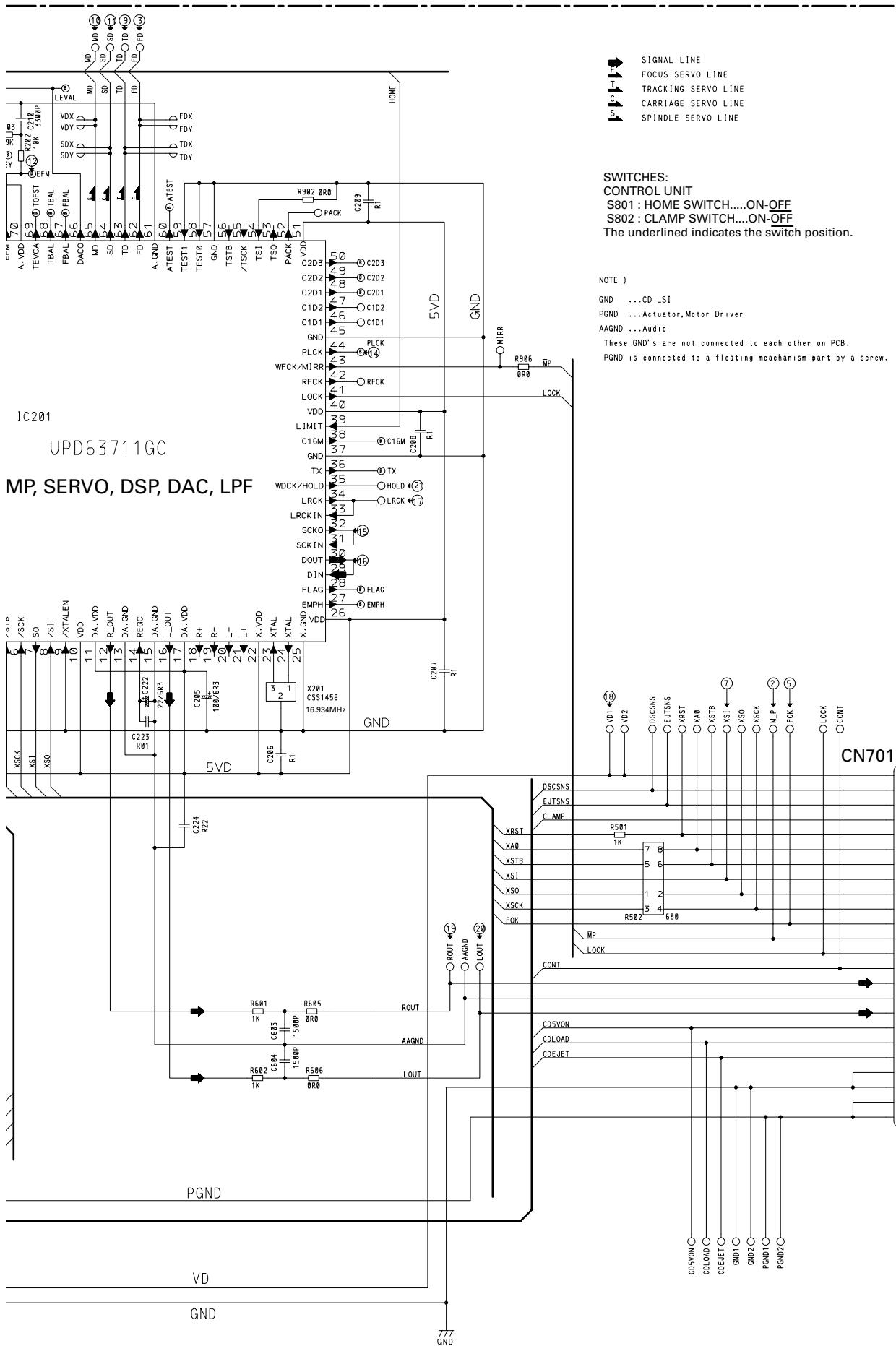
CN801

IC701

BA05SFP

5V REGULATOR

C D

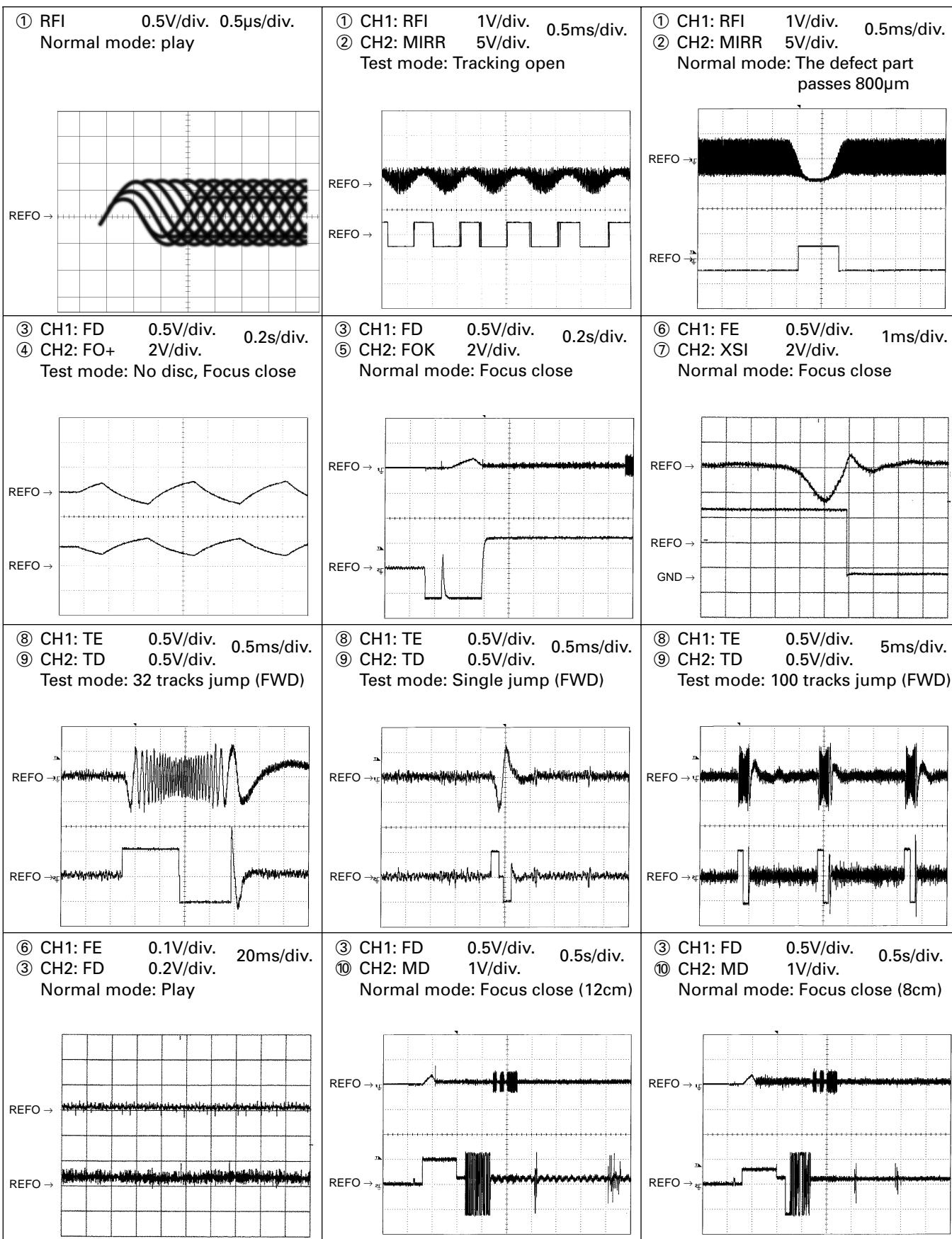


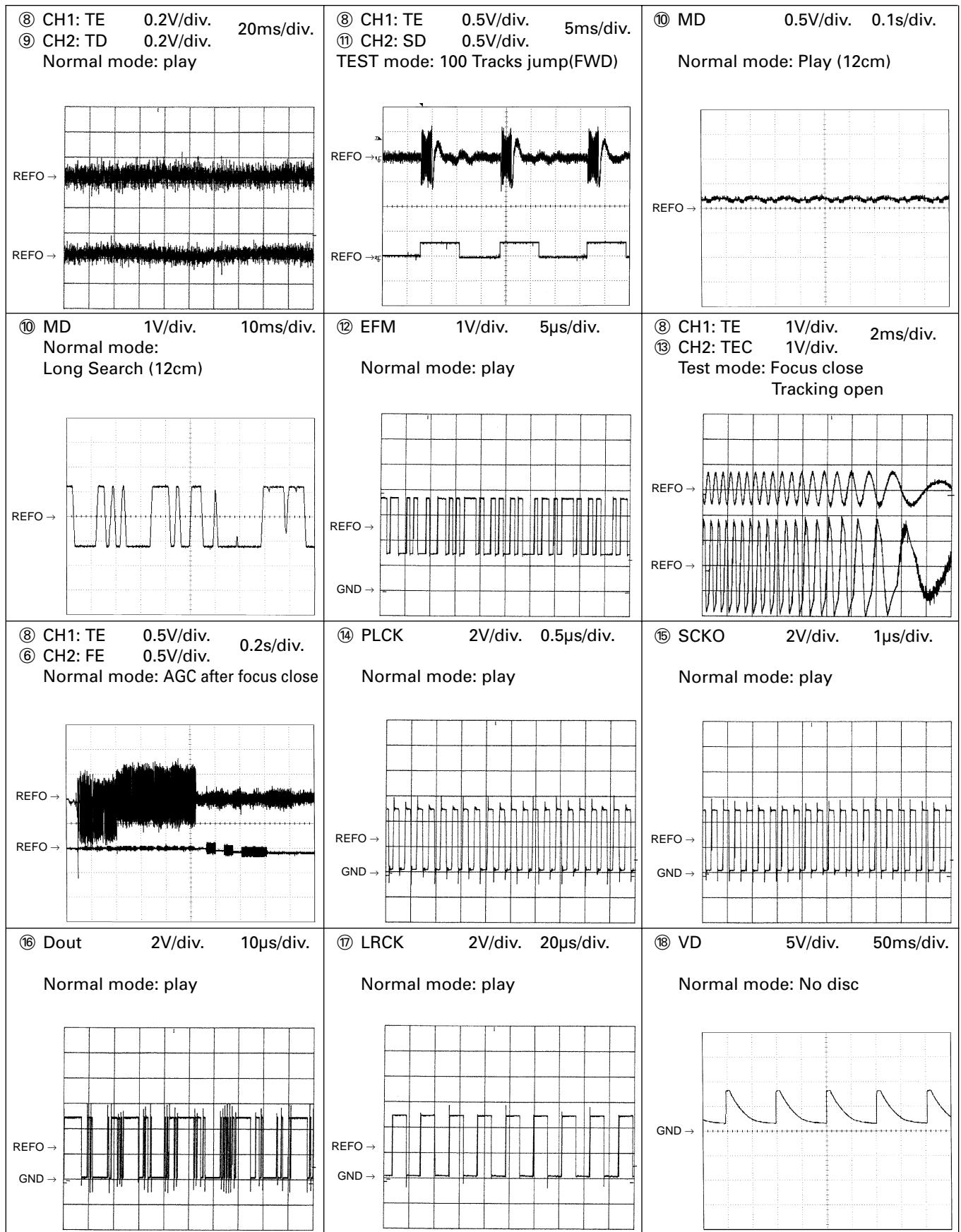
Note:1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage

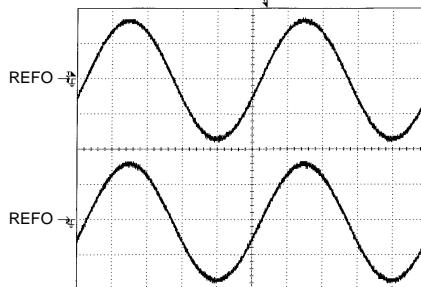
REFO:2.5V

● Waveforms

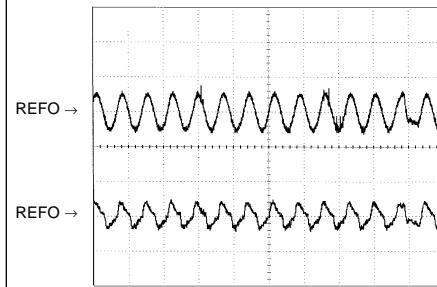




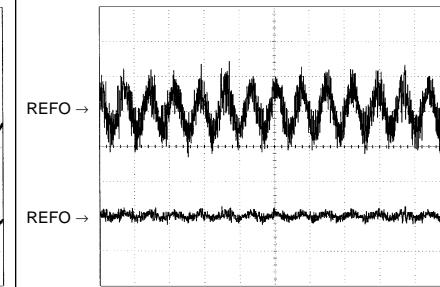
⑯ CH1: R OUT 1V/div. 0.2ms/div.
 ⑰ CH2: L OUT 1V/div. 0.2ms/div.
 Normal mode: Play (1kHz 0dB)



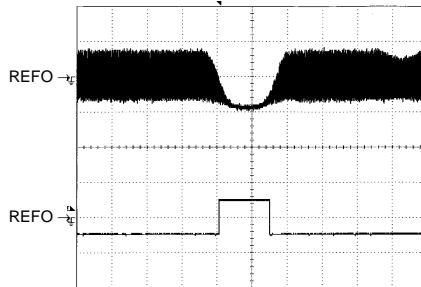
⑥ CH1: FE 0.2V/div. 1ms/div.
 ⑦ CH2: FD 0.5V/div. 1ms/div.
 Normal mode: During AGC



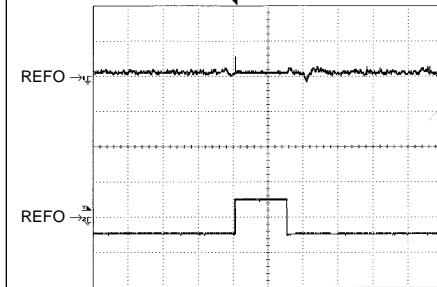
⑧ CH1: TE 0.2V/div. 1ms/div.
 ⑨ CH2: TD 0.5V/div. 1ms/div.
 Normal mode: During AGC



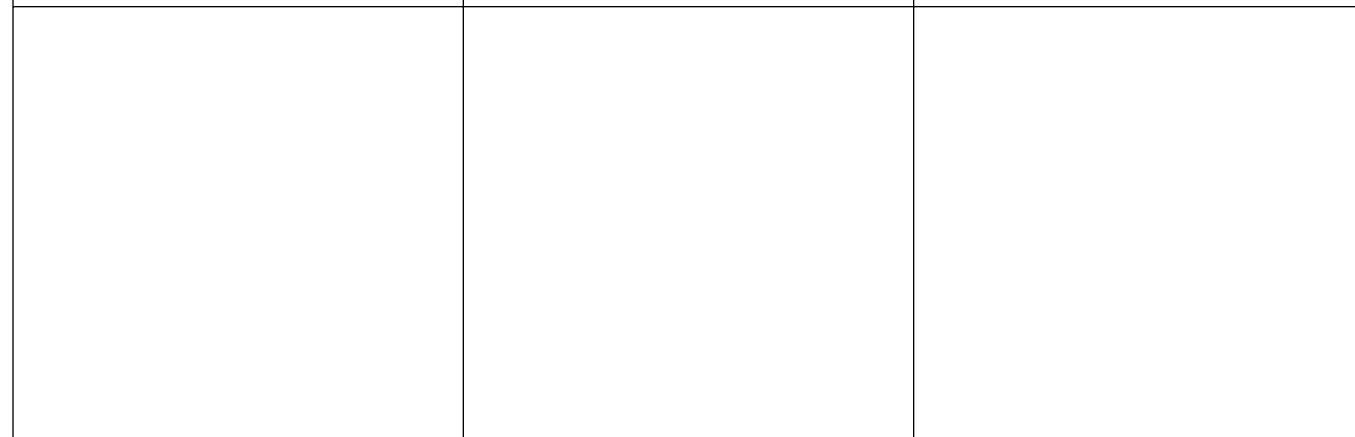
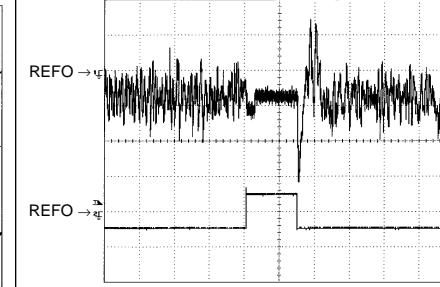
① CH1: RFI 1V/div. 0.5ms/div.
 ⑫ CH2: HOLD 5V/div. 0.5ms/div.
 Normal mode: The defect part passes 800μm(B.D)



③ CH1: FD 0.5V/div. 0.5ms/div.
 ⑭ CH2: HOLD 5V/div. 0.5ms/div.
 Normal mode: The defect part passes 800μm(B.D)



⑩ CH1: TD 0.1V/div. 0.5ms/div.
 ⑮ CH2: HOLD 5V/div. 0.5ms/div.
 Normal mode: The defect part passes 800μm(B.D)



4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

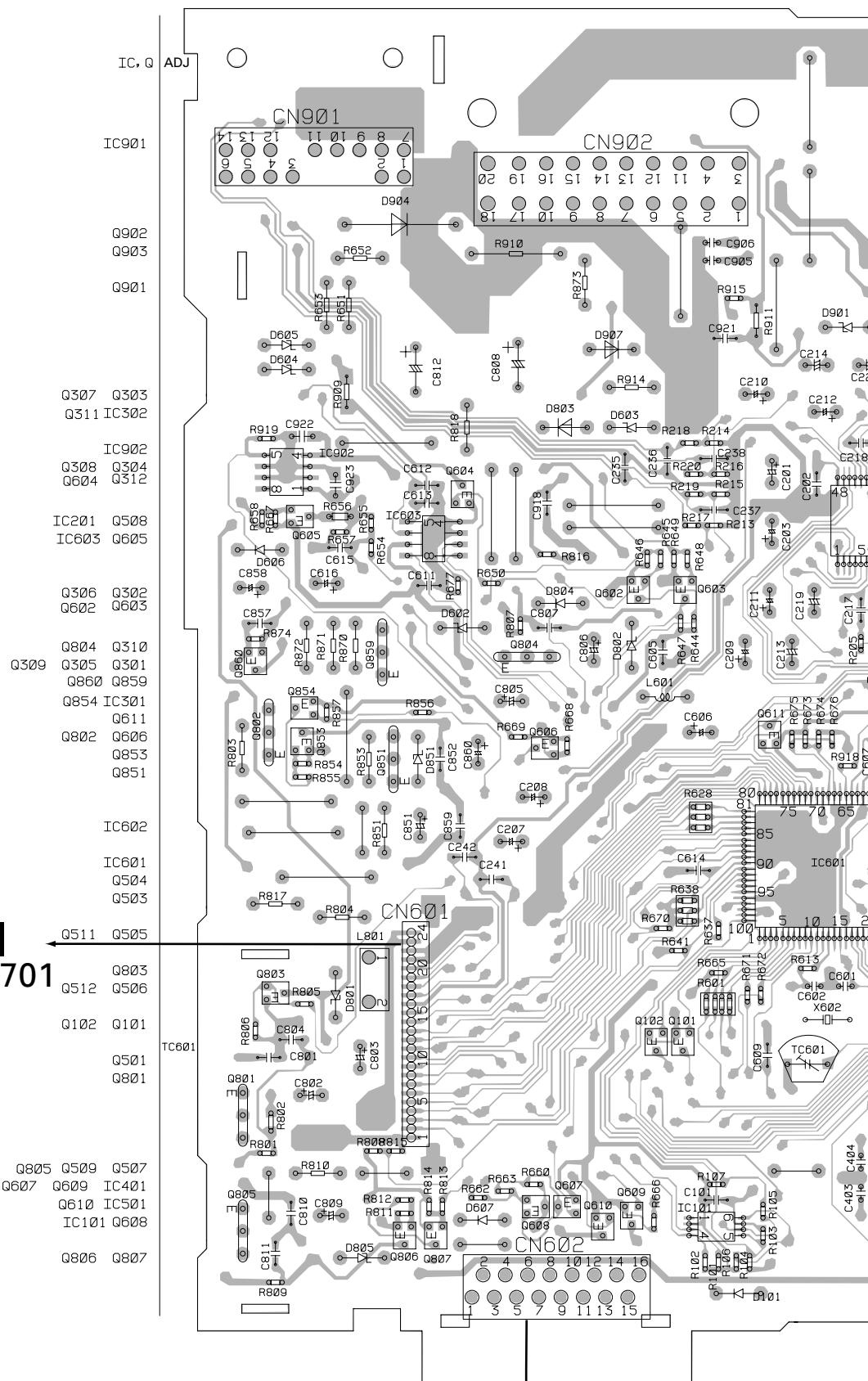
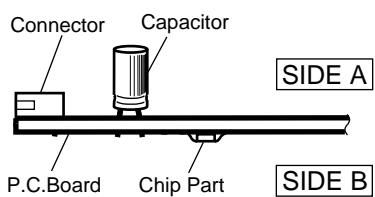
A TUNER AMP UNIT

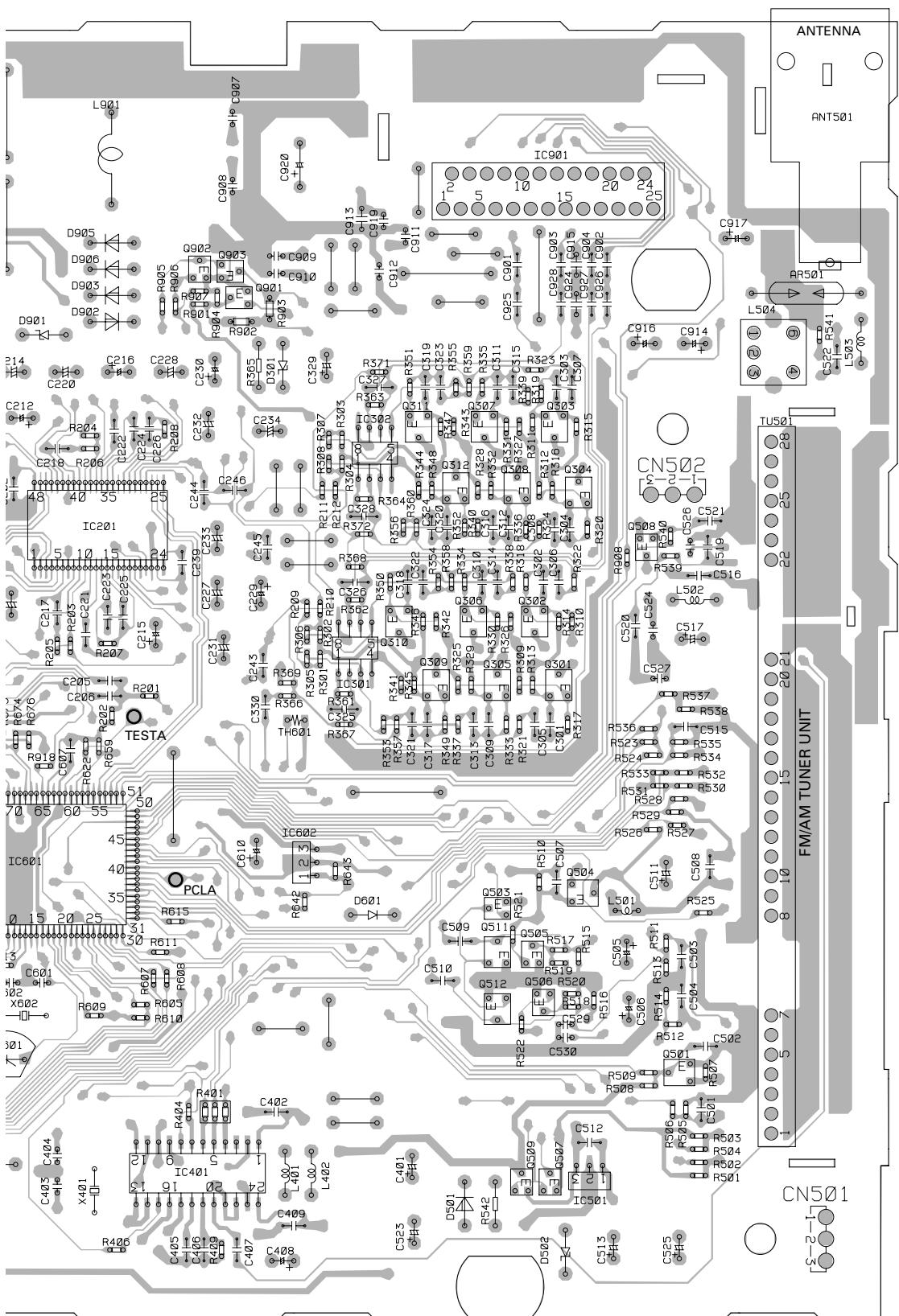
NOTE FOR PCB DIAGRAMS

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





SIDE A

A

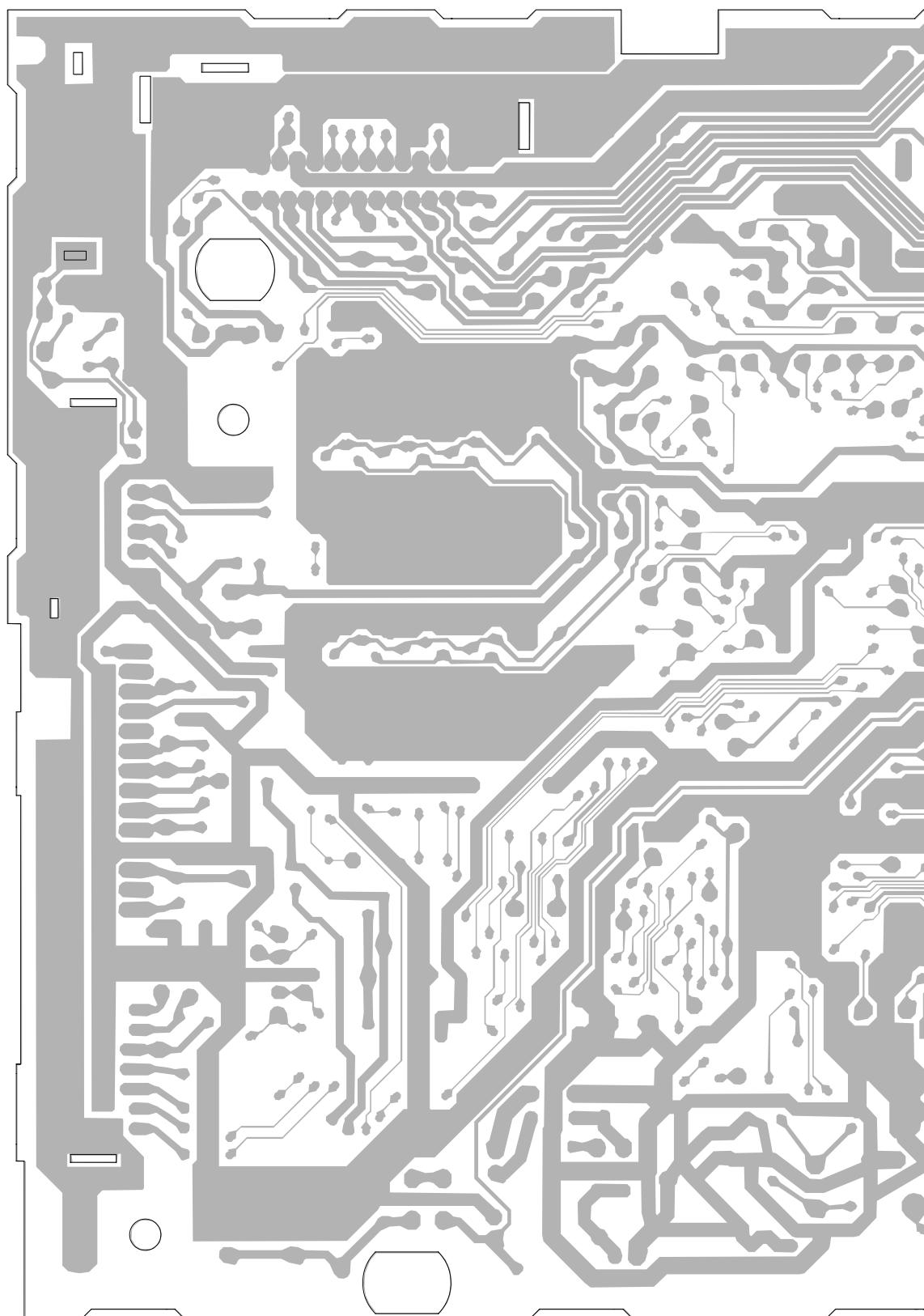
B

C

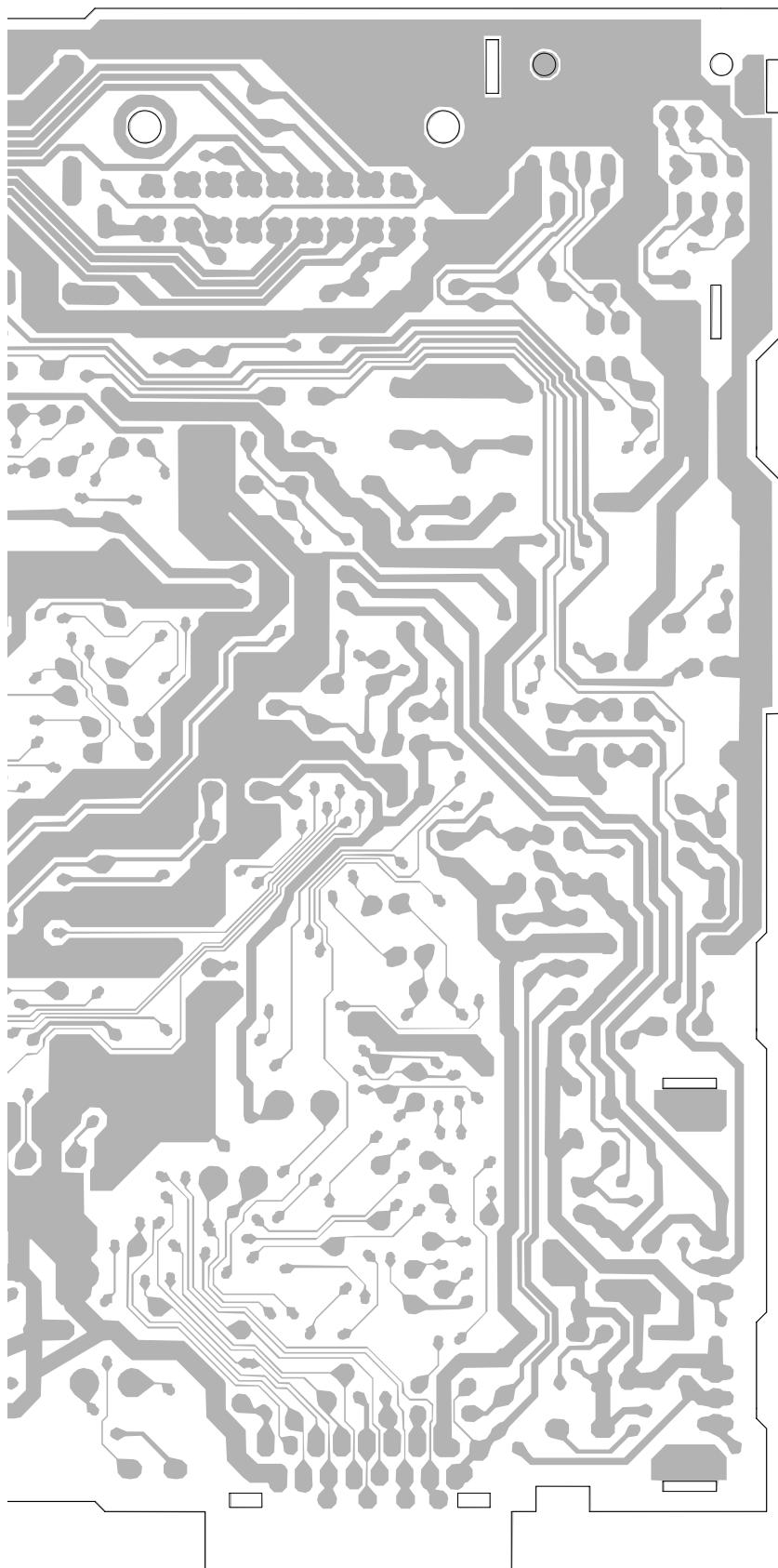
D

A

31

A TUNER AMP UNIT

FRONT

SIDE B

A

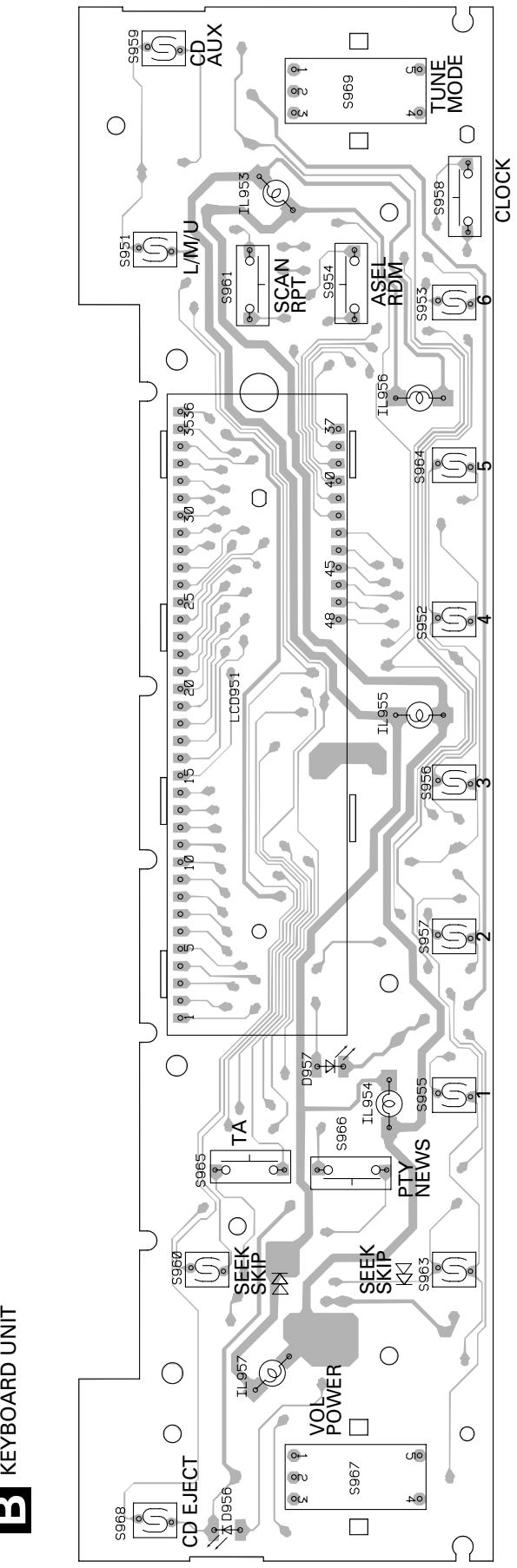
B

C

D

A

33

4.2 KEYBOARD UNIT(DEH-M6006ZH)**B** KEYBOARD UNIT**SIDE A**

1

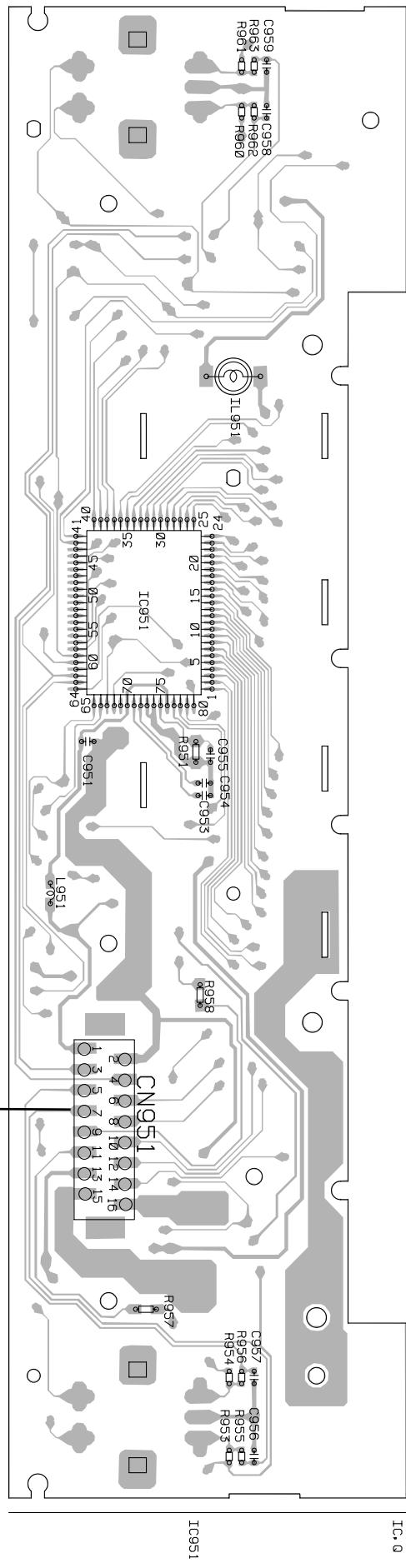
2

3

4

DEH-M6006ZH,M6017ZH**SIDE B**

A CN602
B KEYBOARD UNIT

**B**

35

1

2

3

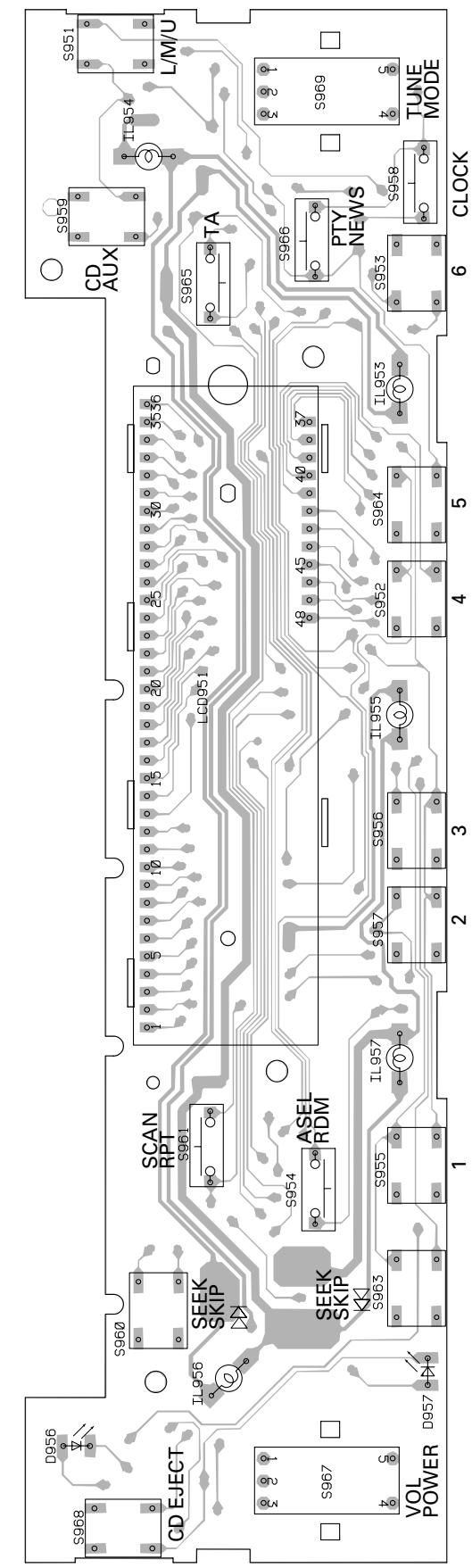
4

A

B

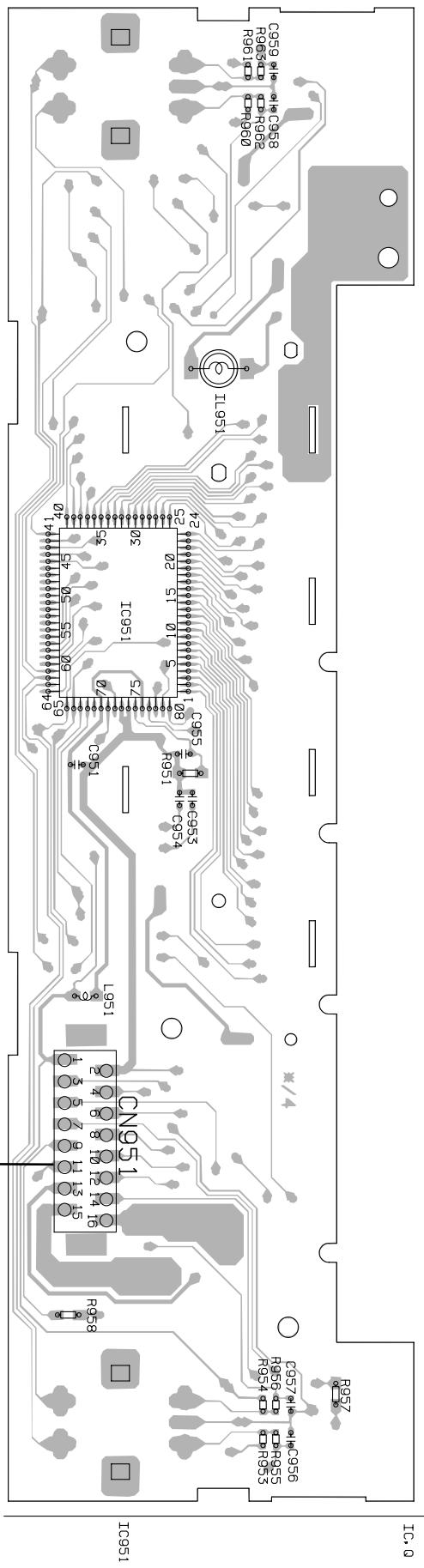
C

D

4.3 KEYBOARD UNIT(DEH-M6017ZH)**B****B** KEYBOARD UNIT**SIDE A**

SIDE B

A CN602
B KEYBOARD UNIT

**B**

37

4.4 CD MECHANISM MODULE

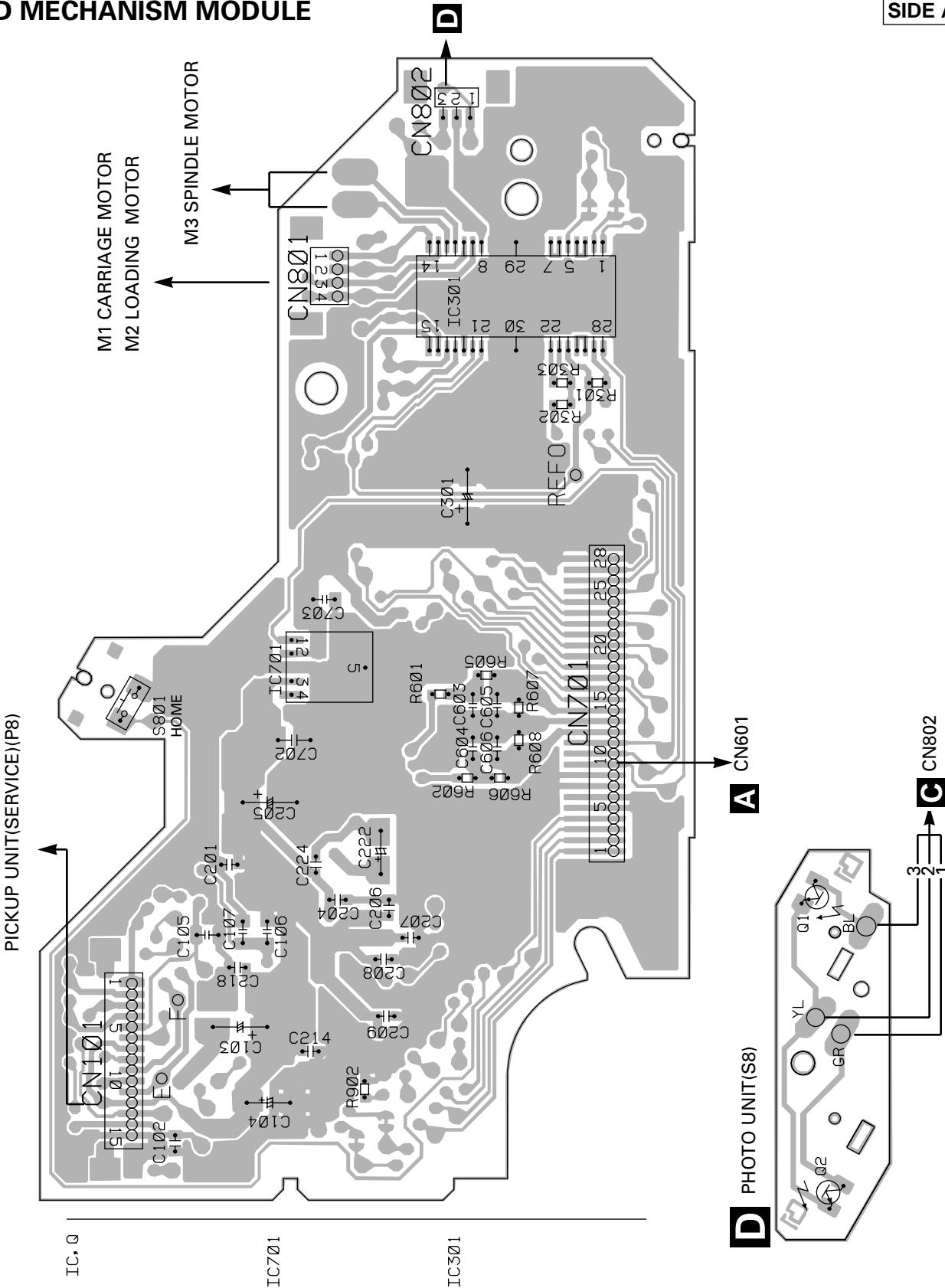
SIDE A

A

B

C

D

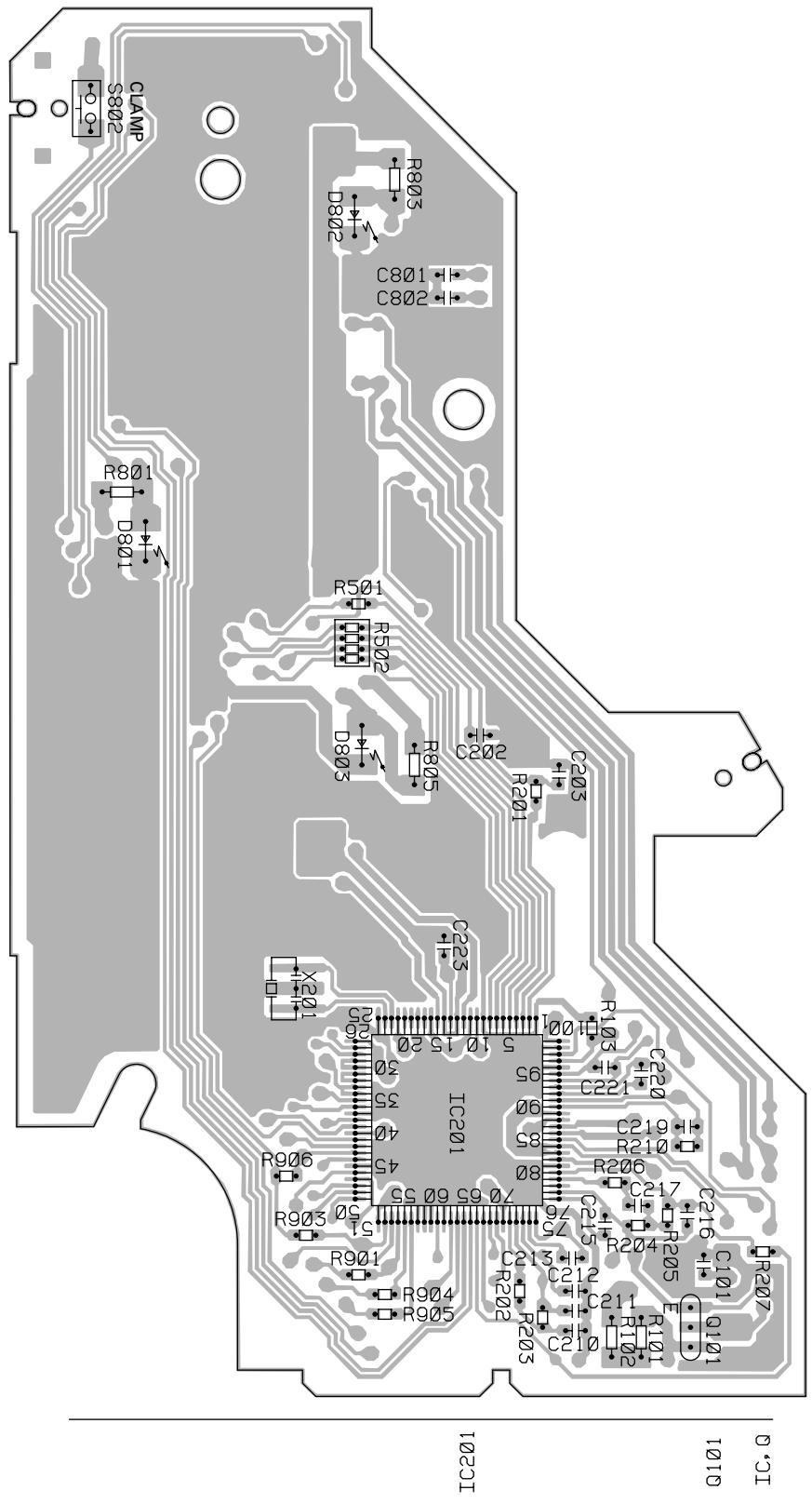


1

2

3

4

DEH-M6006ZH,M6017ZH**SIDE B****C** CONTROL UNIT**C**

39

1

2

3

4

5. 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/OS000J,RS1/OOS000J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol and No.=====Part Name			=====Circuit Symbol and No.=====Part Name			Part No.	
A	Unit Number : UWM7108(DEH-M6006ZH)		Q	807	Transistor	2SC4081	
	Unit Name : Tuner Amp Unit		Q	851	Transistor	2SD1859	
	MISCELLANEOUS		Q	853	Transistor	2SA1576	
			Q	854	Transistor	2SC4081	
			Q	859	Transistor	2SB1236	
IC	101	IC	BR9010FV	Q	860	Transistor	2SC4081
IC	201	IC	SN761029DL	Q	901	Transistor	DTC114EU
IC	301	IC	BA4560F	Q	902	Transistor	2SC4081
IC	302	IC	BA4560F	Q	903	Transistor	DTC114EU
IC	401	IC	PM4009A	D	101	Diode	1SS133
IC	501	IC	S-81250PGPD	D	301	Diode	HZS6L(A1)
IC	601	IC	PD5667A	D	501	Diode	MPG06G-6415G3
IC	602	IC	S-80735ANDZI	D	502	Diode	HZS16L(1)
IC	603	IC	CA0008AM	D	601	Diode	1SS133
IC	901	IC	TDA7384	D	602	Diode	HZS7L(C3)
IC	902	IC	PML001A	D	603	Diode	HZS7L(C2)
Q	101	Transistor	DTC114EU	D	604	Diode	RD18JS(B2)
Q	102	Transistor	DTC114EU	D	605	Diode	RD18JS(B2)
Q	301	Transistor	2SC2412K	D	607	Diode	1SS133
Q	302	Transistor	2SC2412K	D	801	Diode	HZS9L(B3)
Q	303	Transistor	2SC2412K	D	802	Diode	HZS6L(B1)
Q	304	Transistor	2SC2412K	D	803	Diode	MPG06G-6415G3
Q	305	Transistor	2SC2412K	D	804	Diode	1SS133
Q	306	Transistor	2SC2412K	D	805	Diode	HZS9L(B1)
Q	307	Transistor	2SC2412K	D	851	Diode	HZS7L(C3)
Q	308	Transistor	2SC2412K	D	901	Diode	HZS9L(B1)
Q	309	Transistor	2SC2412K	D	904	Diode	ERC05-10B
Q	310	Transistor	2SC2412K	D	905	Diode	MPG06G-6415G3
Q	311	Transistor	2SC2412K	D	906	Diode	MPG06G-6415G3
Q	312	Transistor	2SC2412K	D	907	Diode	MPG06G-6415G3
Q	501	Transistor	2SC2412K	L	401	Ferri-Inductor	LAU221K
Q	503	Transistor	DTA114EU	L	402	Inductor	LAU100K
Q	504	Chip Transistor	2SC2712	L	501	Inductor	CTF1399
Q	505	Transistor	2SC4081	L	502	Ferri-Inductor	LAU2R2K
Q	506	Transistor	2SC4081	L	503	Ferri-Inductor	LAU4R7K
Q	507	Transistor	DTA114EU	L	601	Inductor	LAU100K
Q	508	Transistor	2SC4081	L	901	Choke Coil 600μH	CTH1225
Q	509	Transistor	DTA114EU	TC	601	Trimmer	CCL1046
Q	511	Transistor	DTC143TK	TH	601	Thermistor	CCX1032
Q	512	Transistor	DTC143TK	X	401	Crystal Resonator 3.648MHz	CSS1447
Q	602	Transistor	2SC4081	X	602	Radiator 10.00MHz	CSS1475
Q	603	Transistor	2SC4081			FM/AM Tuner Unit	UWE1576
Q	604	Transistor	2SC4081	AR	501	Surge Protector	DSP-201M-A21F
Q	606	Transistor	2SA1576				
Q	607	Transistor	DTA143EU				
						RESISTORS	
Q	608	Transistor	2SA1576	R	101		RS1/16S473J
Q	609	Transistor	DTA143EU	R	102		RS1/16S103J
Q	610	Transistor	DTA114EU	R	103		RS1/16S473J
Q	611	Transistor	DTA114EU	R	104		RS1/16S102J
Q	801	Transistor	2SD2396	R	105		RS1/16S102J
Q	802	Transistor	2SB1236	R	106		RS1/16S473J
Q	803	Transistor	2SC4081	R	107		RS1/16S103J
Q	804	Transistor	2SD1859	R	201		RS1/16S823J
Q	805	Transistor	2SD2396	R	202		RS1/16S682J
Q	806	Transistor	2SA1576	R	203		RS1/16S221J

=====Circuit Symbol and No.====Part Name		Part No.	=====Circuit Symbol and No.====Part Name		Part No.
R	204	RS1/16S221J	R	356	RS1/16S223J
R	205	RS1/16S272J	R	357	RS1/16S0R0J
R	206	RS1/16S272J	R	358	RS1/16S0R0J
R	207	RS1/16S154J	R	361	RS1/16S682J
R	208	RS1/16S154J	R	362	RS1/16S682J
R	209	RS1/16S682J	R	363	RS1/16S472J
R	210	RS1/16S682J	R	364	RS1/16S472J
R	211	RS1/16S822J	R	365	RD1/4PU222J
R	212	RS1/16S822J	R	366	RS1/16S512J
R	213	RS1/16S472J	R	367	RS1/16S274J
R	214	RS1/16S472J	R	368	RS1/16S274J
R	215	RS1/16S472J	R	369	RS1/16S102J
R	216	RS1/16S472J	R	401	RA3C102J
R	217	RS1/16S562J	R	404	RS1/16S681J
R	218	RS1/16S562J	R	406	RS1/16S102J
R	219	RS1/16S562J	R	409	RS1/16S225J
R	220	RS1/16S562J	R	501	RS1/16S473J
R	301	RS1/16S133J	R	502	RS1/16S681J
R	302	RS1/16S133J	R	503	RS1/16S473J
R	303	RS1/16S822J	R	504	RS1/16S681J
R	304	RS1/16S822J	R	505	RS1/16S473J
R	305	RS1/16S472J	R	506	RS1/16S681J
R	306	RS1/16S472J	R	507	RS1/16S153J
R	307	RS1/16S472J	R	508	RS1/16S474J
R	308	RS1/16S472J	R	509	RS1/16S681J
R	309	RS1/16S332J	R	510	RS1/16S224J
R	310	RS1/16S332J	R	511	RS1/16S162J
R	311	RS1/16S332J	R	512	RS1/16S162J
R	312	RS1/16S332J	R	513	RS1/16S332J
R	313	RS1/16S683J	R	514	RS1/16S332J
R	314	RS1/16S683J	R	515	RS1/16S104J
R	315	RS1/16S563J	R	516	RS1/16S104J
R	316	RS1/16S563J	R	517	RS1/16S222J
R	317	RS1/16S152J	R	518	RS1/16S222J
R	318	RS1/16S152J	R	519	RS1/16S223J
R	319	RS1/16S132J	R	520	RS1/16S223J
R	320	RS1/16S132J	R	521	RS1/16S224J
R	321	RS1/16S182J	R	522	RS1/16S224J
R	322	RS1/16S182J	R	523	RS1/16S472J
R	323	RS1/16S222J	R	524	RS1/16S473J
R	324	RS1/16S222J	R	525	RS1/16S102J
R	325	RS1/16S332J	R	526	RS1/16S473J
R	326	RS1/16S332J	R	527	RS1/16S681J
R	327	RS1/16S332J	R	528	RS1/16S103J
R	328	RS1/16S332J	R	529	RS1/16S393J
R	329	RS1/16S753J	R	530	RS1/16S681J
R	330	RS1/16S753J	R	531	RS1/16S472J
R	331	RS1/16S683J	R	532	RS1/16S681J
R	332	RS1/16S683J	R	533	RS1/16S473J
R	333	RS1/16S122J	R	534	RS1/16S681J
R	334	RS1/16S122J	R	535	RS1/16S473J
R	335	RS1/16S152J	R	536	RS1/16S681J
R	336	RS1/16S152J	R	537	RS1/16S681J
R	337	RS1/16S682J	R	538	RS1/16S473J
R	338	RS1/16S682J	R	539	RS1/16S222J
R	339	RS1/16S392J	R	540	RS1/16S222J
R	340	RS1/16S392J	R	542	RD1/4PU151J
R	341	RS1/16S332J	R	601	RAB4C222J
R	342	RS1/16S332J	R	605	RS1/16S102J
R	343	RS1/16S332J	R	607	RS1/16S102J
R	344	RS1/16S332J	R	608	RS1/16S102J
R	345	RS1/16S683J	R	609	RS1/16S102J
R	346	RS1/16S683J	R	610	RS1/16S223J
R	347	RS1/16S753J	R	611	RS1/16S472J
R	348	RS1/16S753J	R	613	RS1/16S0R0J
R	349	RS1/16S152J	R	615	RS1/16S102J
R	350	RS1/16S152J	R	622	RS1/16S473J
R	351	RS1/16S132J	R	628	RA3C102J
R	352	RS1/16S132J	R	637	RS1/16S102J
R	355	RS1/16S223J	R	638	RA3C473J

=====Circuit Symbol and No.====Part Name		Part No.	=====Circuit Symbol and No.====Part Name	Part No.
R 641		RS1/16S303J	CAPACITORS	
R 642		RS1/16S102J	C 101	CKSRYB473K16
R 643		RS1/16S822J	C 201	CEAL470M10
R 644		RS1/16S473J	C 202	CKSRYB473K16
R 645		RS1/16S104J	C 203	CEAL1R0M50
R 646		RS1/16S473J	C 205	CKSRYB103K50
R 647		RS1/16S473J	C 206	CKSRYB103K50
R 648		RS1/16S473J	C 207	CEAL1R0M50
R 649		RS1/16S473J	C 208	CEAL1R0M50
R 650		RS1/16S392J	C 209	CEAL1R0M50
R 651		RD1/4PU101J	C 210	CEAL1R0M50
R 652		RD1/4PU680J	C 211	CEAL1R0M50
R 653		RD1/4PU101J	C 212	CEAL1R0M50
R 659		RS1/16S473J	C 213	CEALNP4R7M16
R 660		RS1/16S122J	C 214	CEALNP4R7M16
R 662		RS1/16S103J	C 215	CEAL1R5M50
R 663		RS1/16S103J	C 216	CEAL1R5M50
R 665		RS1/16S103J	C 217	CKSRYB682K25
R 666		RS1/16S103J	C 218	CKSRYB682K25
R 668		RS1/16S103J	C 219	CEALNP4R7M16
R 669		RS1/16S103J	C 220	CEALNP4R7M16
R 670		RS1/16S103J	C 221	CKSRYB153K25
R 671		RS1/16S102J	C 222	CKSRYB153K25
R 672		RS1/16S102J	C 223	CKSRYB104K16
R 674		RS1/16S473J	C 224	CKSRYB104K16
R 676		RS1/16S473J	C 225	CKSRYB224K10
R 801		RS1/16S101J	C 226	CKSRYB224K10
R 802		RS1/10S681J	C 227	CEALNP4R7M16
R 803		RD1/4PU472J	C 228	CEALNP4R7M16
R 804		RD1/4PU331J	C 229	CEAL4R7M35
R 805		RS1/16S272J	C 230	CEAL2R2M50
R 806		RS1/16S103J	C 231	CCSRCH221J50
R 807		RS1/16S203J	C 235	CCSRCH221J50
R 808		RS1/16S222J	C 236	CCSRCH221J50
R 809		RS1/16S221J	C 237	CCSRCH221J50
R 810		RD1/4PU221J	C 238	CCSRCH221J50
R 811		RS1/16S472J	C 239	CKSRYB472K50
R 812		RS1/16S272J	C 243	CKSRYB104K16
R 813		RS1/16S103J	C 244	CKSRYB104K16
R 814		RS1/16S103J	C 245	CKSRYB683K16
R 815		RS1/16S472J	C 246	CKSRYB683K16
R 816		RS1/16S222J	C 301	CKSRYB683K16
R 817		RD1/4PU331J	C 302	CKSRYB683K16
R 818		RD1/4PU101J	C 303	CKSRYB223K25
R 853		RD1/4PU102J	C 304	CKSRYB223K25
R 854		RS1/16S472J	C 305	CKSRYB105K10
R 855		RS1/16S472J	C 306	CKSRYB105K10
R 856		RS1/16S103J	C 307	CKSRYB473K16
R 857		RS1/16S103J	C 308	CKSRYB473K16
R 870		RD1/4PU472J	C 309	CKSRYB154K10
R 871		RD1/4PU331J	C 310	CKSRYB154K10
R 872		RD1/4PU331J	C 311	CKSRYB683K16
R 873		RD1/4PU472J	C 312	CKSRYB683K16
R 874		RS1/16S103J	C 313	CKSRYB683K16
R 901		RS1/16S103J	C 314	CKSRYB683K16
R 902		RS1/10S221J	C 315	CKSRYB104K16
R 903		RS1/10S222J	C 316	CKSRYB104K16
R 904		RS1/16S153J	C 317	CCSRCH223K25
R 905		RS1/16S472J	C 318	CCSRCH223K25
R 906		RS1/16S102J	C 319	CKSRYB103K50
R 907		RS1/16S472J	C 320	CKSRYB103K50
R 908		RS1/16S103J	C 321	CKSRYB333K25
R 909		RS1/8S121J	C 322	CKSRYB333K25
R 910		RD1/2PM681J	C 323	CKSRYB103K50
R 911		RS1/8S103J	C 324	CKSRYB103K50
R 914		RD1/4PU102J	C 325	CCSRCH101J50
R 915		RS1/16S104J	C 326	CCSRCH101J50
R 918		RS1/16S102J		
R 919		RS1/16S473J		

=====Circuit Symbol and No.====Part Name		Part No.	=====Circuit Symbol and No.====Part Name		Part No.
C 327		CCSRCH101J50	C 911		CKSRYB102K50
C 328		CCSRCH101J50	C 912		CKSRYB102K50
C 329		CEAL101M6R3	C 913		CKSQYB104K50
C 330		CKSRYB104K16	C 914		CEAL100M16
C 401		CEAL220M6R3	C 915		CKSQYB225K10
C 402		CKSRYB473K16	C 916		CEAL1R0M50
C 403		CCSRCH270J50	C 917		CEAL100M16
C 404		CCSRCH270J50	C 918		CKSRYB102K50
C 405		CKSRYB104K16	C 919		CKSRYB102K50
C 406		CKSRYB471K50	C 920		CCH1368
C 407		CKSRYB471K50	C 921		CKSRYB473K16
C 408		CEAL4R7M35	C 922		CKSQYB104K50
C 409		CKSRYB473K16	C 923		CKSQYB473K50
C 501		CKSRYB182K50	C 924		CKSQYB225K10
C 502		CKSRYB472K50	C 925		CKSRYB474K10
C 503		CKSRYB183K25	C 926		CKSRYB474K10
C 504		CKSRYB183K25	C 927		CKSRYB474K10
C 505		CEAL1R0M50	C 928		CKSRYB474K10
C 506		CEAL1R0M50			
C 507		CKSRYB223K25			
C 508		CKSRYB473K16			
C 509		CKSRYB224K10			
C 510		CKSRYB224K10			
C 511		CEAL101M6R3			
C 512		CKSRYB102K50			
C 513		CEJA101M16	IC 951	IC	LC75883EHS
C 516		CKSRYB102K50	D 956	LED	CL200FGCTU
C 517		CEAL220M10	D 957	Chip LED	CL200HRCTU
C 519		CKSRYB103K50	L 951	Inductor	LCTB4R7K2125
C 521		CKSRYB223K25	S 954	Switch	CSG1043
C 522		CKSRYB103K50	S 958	Switch	CSG1043
C 523		CEAL470M16	S 961	Switch	CSG1043
C 525		CEJA101M16	S 965	Switch	CSG1043
C 601		CCSRCH8R0D50	S 966	Switch	CSG1043
C 602		CCSRCH330J50	S 967	Encoder(VOL/POWER)	CSD1038
C 606		CEAL4R7M35	S 969	Encoder(TUNE/MODE)	CSD1054
C 607		CKSRYB103K50	IL 951	Lamp 8V60mA	CEL1688
C 609		CKSRYB102K50	IL 954	Lamp 14V40mA	CEL1645
C 610		CEAL2R2M50	IL 955	Lamp 14V40mA	CEL1645
C 611		CKSRYB102K50	IL 956	Lamp 14V40mA	CEL1645
C 612		CKSRYB102K50	IL 957	Lamp 14V40mA	CEL1645
C 613		CKSRYB102K50	LCD 951	LCD	CAW1588
C 801		CKSRYB473K16			
C 802		CEAL220M10			
C 803		CEAL101M10	R 951		RS1/10S683J
C 804			R 953		RS1/16S103J
C 805		CKSRYB103K50	R 954		RS1/16S103J
C 806		CEAL220M10	R 955		RS1/16S103J
C 807		CEAL220M10	R 956		RS1/16S103J
C 808	470μF/16V	CKSRYB103K50	R 957		RS1/10S221J
		CCH1331	R 958		RS1/10S561J
C 809		CEAL101M10	R 960		RS1/16S103J
C 810		CKSRYB102K50	R 961		RS1/16S103J
C 811		CKSRYB473K16	R 962		RS1/16S103J
C 812	470μF/16V	CCH1331	R 963		RS1/16S103J
C 851		CEAL220M10			
C 852		CKSRYB104K16			
C 857		CKSRYB102K50	C 951		CKSRYB473K16
C 858		CEAL4R7M35	C 953		CKSRYB473K16
C 859		CKSRYB104K16	C 954		CKSRYB473K16
C 860		CEAL2R2M50	C 955		CCSRCH821J50
C 901		CKSRYB474K10	C 956		CKSRYB103K50
C 902		CKSRYB474K10			
C 903		CKSRYB474K10	C 957		CKSRYB103K50
C 904		CKSRYB474K10	C 958		CKSRYB103K50
C 905		CKSRYB102K50	C 959		CKSRYB103K50
C 906		CKSRYB102K50			
C 907		CKSRYB102K50			
C 908		CKSRYB102K50			
C 909		CKSRYB102K50			
C 910		CKSRYB102K50			

B Unit Number : UWM7109(DEH-M6006ZH)
Unit Name : Keyboard Unit

MISCELLANEOUS

RESISTORS

CAPACITORS

=====Circuit Symbol and No.====Part Name			=====Circuit Symbol and No.====Part Name		
		Part No.			Part No.
A	Unit Number : CWM7372(DEH-M6017ZH)		D 301	Diode	HZS6L(A1)
	Unit Name : Tuner Amp Unit		D 501	Diode	MPG06G-6415G3
	MISCELLANEOUS		D 502	Diode	HZS16L(1)
			D 601	Diode	1SS133
			D 602	Diode	HZS7L(C3)
IC 101	IC	BR9010FV	D 603	Diode	HZS7L(C2)
IC 201	IC	SN761029DL	D 604	Diode	RD18JS(B2)
IC 301	IC	BA4560F	D 605	Diode	RD18JS(B2)
IC 302	IC	BA4560F	D 607	Diode	1SS133
IC 401	IC	PM4009A	D 801	Diode	HZS9L(B3)
IC 501	IC	S-81250PGPD	D 802	Diode	HZS6L(B1)
IC 601	IC	PD5667A	D 803	Diode	MPG06G-6415G3
IC 602	IC	S-80735ANDZI	D 804	Diode	1SS133
IC 603	IC	CA0008AM	D 805	Diode	HZS9L(B1)
IC 901	IC	TDA7384	D 851	Diode	HZS7L(C3)
IC 902	IC	PML001A	D 901	Diode	HZS9L(B1)
Q 101	Transistor	DTC114EU	D 904	Diode	ERC05-10B
Q 102	Transistor	DTC114EU	D 905	Diode	MPG06G-6415G3
Q 301	Transistor	2SC2412K	D 906	Diode	MPG06G-6415G3
Q 302	Transistor	2SC2412K	D 907	Diode	MPG06G-6415G3
Q 303	Transistor	2SC2412K	L 401	Ferri-Inductor	LAU221K
Q 304	Transistor	2SC2412K	L 402	Inductor	LAU100K
Q 305	Transistor	2SC2412K	L 501	Inductor	CTF1399
Q 306	Transistor	2SC2412K	L 502	Ferri-Inductor	LAU2R2K
Q 307	Transistor	2SC2412K	L 503	Ferri-Inductor	LAU4R7K
Q 308	Transistor	2SC2412K	L 601	Inductor	LAU100K
Q 309	Transistor	2SC2412K	L 901	Choke Coil 600μH	CTH1225
Q 310	Transistor	2SC2412K	TC 601	Trimmer	CCL1046
Q 311	Transistor	2SC2412K	TH 601	Thermistor	CCX1032
Q 312	Transistor	2SC2412K	X 401	Crystal Resonator 3.648MHz	CSS1447
Q 501	Transistor	2SC2412K	X 602	Radiator 10.00MHz	CSS1475
Q 503	Transistor	DTA114EU		FM/AM Tuner Unit	CWE1576
Q 504	Chip Transistor	2SC2712	AR 501	Surge Protector	DSP-201M-A21F
Q 505	Transistor	2SC4081			
Q 506	Transistor	2SC4081			
RESISTORS					
Q 507	Transistor	DTA114EU	R 101		RS1/16S473J
Q 508	Transistor	2SC4081	R 102		RS1/16S103J
Q 509	Transistor	DTA114EU	R 103		RS1/16S473J
Q 511	Transistor	DTC143TK	R 104		RS1/16S102J
Q 512	Transistor	DTC143TK	R 105		RS1/16S102J
Q 602	Transistor	2SC4081	R 106		RS1/16S473J
Q 603	Transistor	2SC4081	R 107		RS1/16S103J
Q 604	Transistor	2SC4081	R 201		RS1/16S823J
Q 606	Transistor	2SA1576	R 202		RS1/16S682J
Q 607	Transistor	DTA143EU	R 203		RS1/16S221J
Q 608	Transistor	2SA1576	R 204		RS1/16S221J
Q 609	Transistor	DTA143EU	R 205		RS1/16S272J
Q 610	Transistor	DTA114EU	R 206		RS1/16S272J
Q 611	Transistor	DTA114EU	R 207		RS1/16S154J
Q 801	Transistor	2SD2396	R 208		RS1/16S154J
Q 802	Transistor	2SB1236	R 209		RS1/16S562J
Q 803	Transistor	2SC4081	R 210		RS1/16S562J
Q 804	Transistor	2SD1859	R 211		RS1/16S622J
Q 805	Transistor	2SD2396	R 212		RS1/16S622J
Q 806	Transistor	2SA1576	R 213		RS1/16S472J
Q 807	Transistor	2SC4081	R 214		RS1/16S472J
Q 851	Transistor	2SD1859	R 215		RS1/16S472J
Q 853	Transistor	2SA1576	R 216		RS1/16S472J
Q 854	Transistor	2SC4081	R 217		RS1/16S562J
Q 859	Transistor	2SB1236	R 218		RS1/16S562J
Q 860	Transistor	2SC4081	R 219		RS1/16S562J
Q 901	Transistor	DTC114EU	R 220		RS1/16S562J
Q 902	Transistor	2SC4081	R 301		RS1/16S153J
Q 903	Transistor	DTC114EU	R 302		RS1/16S153J
D 101	Diode	1SS133	R 303		RS1/16S163J

=====Circuit Symbol and No.====Part Name		Part No.	=====Circuit Symbol and No.====Part Name		Part No.
R	304	RS1/16S163J	R	409	RS1/16S225J
R	305	RS1/16S512J	R	501	RS1/16S473J
R	306	RS1/16S512J	R	502	RS1/16S681J
R	307	RS1/16S472J	R	503	RS1/16S473J
R	308	RS1/16S472J	R	504	RS1/16S681J
R	309	RS1/16S332J	R	505	RS1/16S473J
R	310	RS1/16S332J	R	506	RS1/16S681J
R	311	RS1/16S332J	R	507	RS1/16S153J
R	312	RS1/16S332J	R	508	RS1/16S474J
R	313	RS1/16S623J	R	509	RS1/16S681J
R	314	RS1/16S623J	R	510	RS1/16S224J
R	315	RS1/16S683J	R	511	RS1/16S162J
R	316	RS1/16S683J	R	512	RS1/16S162J
R	317	RS1/16S122J	R	513	RS1/16S332J
R	318	RS1/16S122J	R	514	RS1/16S332J
R	319	RS1/16S102J	R	515	RS1/16S104J
R	320	RS1/16S102J	R	516	RS1/16S104J
R	321	RS1/16S0R0J	R	517	RS1/16S222J
R	322	RS1/16S0R0J	R	518	RS1/16S222J
R	323	RS1/16S471J	R	519	RS1/16S223J
R	324	RS1/16S471J	R	520	RS1/16S223J
R	325	RS1/16S332J	R	521	RS1/16S224J
R	326	RS1/16S332J	R	522	RS1/16S224J
R	327	RS1/16S332J	R	523	RS1/16S472J
R	328	RS1/16S332J	R	524	RS1/16S473J
R	329	RS1/16S683J	R	525	RS1/16S102J
R	330	RS1/16S683J	R	526	RS1/16S473J
R	331	RS1/16S563J	R	527	RS1/16S681J
R	332	RS1/16S563J	R	528	RS1/16S103J
R	333	RS1/16S162J	R	529	RS1/16S393J
R	334	RS1/16S162J	R	530	RS1/16S681J
R	335	RS1/16S132J	R	531	RS1/16S472J
R	336	RS1/16S132J	R	532	RS1/16S681J
R	337	RS1/16S122J	R	533	RS1/16S473J
R	338	RS1/16S122J	R	534	RS1/16S681J
R	339	RS1/16S102J	R	535	RS1/16S473J
R	340	RS1/16S102J	R	536	RS1/16S681J
R	341	RS1/16S332J	R	537	RS1/16S681J
R	342	RS1/16S332J	R	538	RS1/16S473J
R	343	RS1/16S332J	R	539	RS1/16S222J
R	344	RS1/16S332J	R	540	RS1/16S222J
R	345	RS1/16S753J	R	542	RD1/4PU151J
R	346	RS1/16S753J	R	601	RAB4C222J
R	347	RS1/16S823J	R	605	RS1/16S102J
R	348	RS1/16S823J	R	607	RS1/16S102J
R	349	RS1/16S122J	R	608	RS1/16S102J
R	350	RS1/16S122J	R	609	RS1/16S102J
R	351	RS1/16S122J	R	610	RS1/16S223J
R	352	RS1/16S122J	R	611	RS1/16S472J
R	355	RS1/16S0R0J	R	613	RS1/16S0R0J
R	356	RS1/16S0R0J	R	615	RS1/16S102J
R	357	RS1/16S272J	R	622	RS1/16S473J
R	358	RS1/16S272J	R	628	RA3C102J
R	361	RS1/16S472J	R	637	RS1/16S102J
R	362	RS1/16S472J	R	638	RA3C473J
R	363	RS1/16S512J	R	641	RS1/16S303J
R	364	RS1/16S512J	R	642	RS1/16S102J
R	365	RD1/4PU222J	R	643	RS1/16S822J
R	366	RS1/16S512J	R	644	RS1/16S473J
R	367	RS1/16S274J	R	645	RS1/16S104J
R	368	RS1/16S274J	R	646	RS1/16S473J
R	369	RS1/16S102J	R	647	RS1/16S473J
R	401	RA3C102J	R	648	RS1/16S473J
R	404	RS1/16S681J	R	649	RS1/16S473J
R	406	RS1/16S102J	R	650	RS1/16S392J

=====Circuit Symbol and No.====Part Name		Part No.	=====Circuit Symbol and No.====Part Name	Part No.
R	651	RD1/4PU101J	C	206
R	652	RD1/4PU680J	C	207
R	653	RD1/4PU101J	C	208
R	659	RS1/16S473J	C	209
R	660	RS1/16S122J	C	210
R	662	RS1/16S103J	C	211
R	663	RS1/16S103J	C	212
R	665	RS1/16S103J	C	213
R	666	RS1/16S103J	C	214
R	668	RS1/16S103J	C	215
R	669	RS1/16S103J	C	216
R	670	RS1/16S103J	C	217
R	671	RS1/16S102J	C	218
R	672	RS1/16S102J	C	219
R	673	RS1/16S473J	C	220
R	676	RS1/16S473J	C	221
R	801	RS1/16S101J	C	222
R	802	RS1/10S681J	C	223
R	803	RD1/4PU472J	C	224
R	804	RD1/4PU331J	C	225
R	805	RS1/16S272J	C	226
R	806	RS1/16S103J	C	227
R	807	RS1/16S203J	C	228
R	808	RS1/16S222J	C	229
R	809	RS1/16S221J	C	230
R	810	RD1/4PU221J	C	235
R	811	RS1/16S472J	C	236
R	812	RS1/16S272J	C	237
R	813	RS1/16S103J	C	238
R	814	RS1/16S103J	C	239
R	815	RS1/16S472J	C	243
R	816	RS1/16S222J	C	244
R	817	RD1/4PU331J	C	245
R	818	RD1/4PU101J	C	246
R	853	RD1/4PU102J	C	301
R	854	RS1/16S472J	C	302
R	855	RS1/16S472J	C	303
R	856	RS1/16S103J	C	304
R	857	RS1/16S103J	C	305
R	870	RD1/4PU472J	C	306
R	871	RD1/4PU331J	C	307
R	872	RD1/4PU331J	C	308
R	873	RD1/4PU472J	C	309
R	874	RS1/16S103J	C	310
R	901	RS1/16S103J	C	311
R	902	RS1/10S221J	C	312
R	903	RS1/10S222J	C	313
R	904	RS1/16S153J	C	314
R	905	RS1/16S472J	C	315
R	906	RS1/16S102J	C	316
R	907	RS1/16S472J	C	317
R	908	RS1/16S103J	C	318
R	909	RS1/8S121J	C	319
R	910	RD1/2PM681J	C	320
R	911	RS1/8S103J	C	321
R	914	RD1/4PU102J	C	322
R	915	RS1/16S104J	C	323
R	918	RS1/16S102J	C	324
R	919	RS1/16S473J	C	325
			C	326
CAPACITORS				
C	101	CKSRYB473K16	C	327
C	201	CEAL470M10	C	328
C	202	CKSRYB473K16	C	329
C	203	CEAL1R0M50	C	330
C	205	CKSRYB103K50	C	401
			C	CCSRCH101J50
			C	CCSRCH101J50
			C	CEAL101M6R3
			C	CKSRYB104K16
			C	CEAL220M6R3

====Circuit Symbol and No.====Part Name		Part No.	====Circuit Symbol and No.====Part Name		Part No.
C 402		CKSRYB473K16	C 911		CKSRYB102K50
C 403		CCSRCH270J50	C 912		CKSRYB102K50
C 404		CCSRCH270J50	C 913		CKSQYB104K50
C 405		CKSRYB104K16	C 914		CEAL100M16
C 406		CKSRYB471K50	C 915		CKSQYB225K10
C 407		CKSRYB471K50	C 916		CEAL1R0M50
C 408		CEAL4R7M35	C 917		CEAL100M16
C 409		CKSRYB473K16	C 918		CKSRYB102K50
C 501		CKSRYB182K50	C 919		CKSRYB102K50
C 502		CKSRYB472K50	C 920		CCH1368
C 503		CKSRYB183K25	C 921		CKSRYB473K16
C 504		CKSRYB183K25	C 922		CKSQYB104K50
C 505		CEAL1R0M50	C 923		CKSQYB473K50
C 506		CEAL1R0M50	C 924		CKSQYB225K10
C 507		CKSRYB223K25	C 925		CKSRYB474K10
C 508		CKSRYB473K16	C 926		CKSRYB474K10
C 509		CKSRYB224K10	C 927		CKSRYB474K10
C 510		CKSRYB224K10	C 928		CKSRYB474K10
C 511		CEAL101M6R3			
C 512		CKSRYB102K50			
C 513		CEJA101M16			
C 516		CKSRYB102K50			
C 517		CEAL220M10			
C 519		CKSRYB103K50			
C 521		CKSRYB223K25	IC 951	IC	LC75883EHS
			D 956	LED	CL200FGCTU
			D 957	Chip LED	CL200HRCTU
C 522		CKSRYB103K50	L 951	Inductor	LCTB4R7K2125
C 523		CEAL470M16	S 951	Switch	CSG1049
C 525		CEJA101M16	S 952	Switch	CSG1049
C 601		CCSRCH8R0D50	S 953	Switch	CSG1049
C 602		CCSRCH330J50	S 954	Switch	CSG1043
C 606		CEAL4R7M35	S 955	Switch	CSG1043
C 607		CKSRYB103K50	S 956	Switch	CSG1049
C 609		CKSRYB102K50	S 957	Switch	CSG1049
C 610		CEAL2R2M50	S 958	Switch	CSG1043
C 611		CKSRYB102K50	S 959	Switch	CSG1049
C 612		CKSRYB102K50	S 960	Switch	CSG1049
C 613		CKSRYB102K50	S 961	Switch	CSG1043
C 801		CKSRYB473K16	S 963	Switch	CSG1049
C 802		CEAL220M10	S 964	Switch	CSG1049
C 803		CEAL101M10	S 965	Switch	CSG1043
C 804		CKSRYB103K50	S 966	Switch	CSG1043
C 805		CEAL220M10	S 967	Encoder(VOL/POWER)	CSD1054
C 806		CEAL220M10	S 968	Switch	CSG1049
C 807		CKSRYB103K50	S 969	Encoder(TUNE/MODE)	CSD1054
C 808	470μF/16V	CCH1331	IL 951	Lamp 8V60mA	CEL1675
C 809		CEAL101M10	IL 953	Lamp 14V40mA	CEL1674
C 810		CKSRYB102K50	IL 954	Lamp 14V40mA	CEL1674
C 811		CKSRYB473K16			
C 812	470μF/16V	CCH1331	IL 955	Lamp 14V40mA	CEL1674
C 851		CEAL220M10	IL 956	Lamp 14V40mA	CEL1674
C 852		CKSRYB104K16	IL 957	Lamp 14V40mA	CEL1674
C 857		CKSRYB102K50	LCD 951	LCD	CAW1588
C 858		CEAL4R7M35			
C 859		CKSRYB104K16			
C 860		CEAL2R2M50	R 951		
C 901		CKSRYB474K10	R 953		RS1/10S683J
C 902		CKSRYB474K10	R 954		RS1/16S103J
C 903		CKSRYB474K10	R 955		RS1/16S103J
C 904		CKSRYB474K10	R 956		RS1/16S103J
C 905		CKSRYB102K50	R 957		RS1/10S221J
C 906		CKSRYB102K50	R 958		RS1/10S561J
C 907		CKSRYB102K50	R 960		RS1/16S103J
C 908		CKSRYB102K50	R 961		RS1/16S103J
C 909		CKSRYB102K50	R 962		RS1/16S103J
C 910		CKSRYB102K50	R 963		RS1/16S103J

B Unit Number : CWM7351(DEH-M6017ZH)
Unit Name : Keyboard Unit

MISCELLANEOUS

RESISTORS

=====Circuit Symbol and No.====Part Name			Part No.	=====Circuit Symbol and No.====Part Name	Part No.
CAPACITORS				C 210	CKSRYB332K50
C 951	CKSRYB473K16			C 211	CKSRYB104K16
C 953	CKSRYB473K16			C 213	CKSRYB392K50
C 954	CKSRYB473K16			C 214	CKSRYB104K16
C 955	CCSRCH821J50				
C 956	CKSRYB103K50			C 215	CKSRYB104K16
C 957	CKSRYB103K50			C 216	CCSRCJ3R0C50
C 958	CKSRYB103K50			C 217	CCSRCH270J50
C 959	CKSRYB103K50			C 218	CKSRYB104K16
C 959	CKSRYB103K50			C 219	CCSRCH181J50
C Unit Number : CWX2411				C 220	CCSRCH510J50
Unit Name : Control Unit				C 221	CKSRYB682K25
MISCELLANEOUS				C 222	CEV220M6R3
				C 223	CKSRYB103K25
				C 224	CKSRYB224K10
IC 201 IC	UPD63711GC				
IC 301 IC	BA5985FM			C 301	CEV101M10
IC 701 IC	BA05SFP			C 603	CCSQSL152J50
Q 101 Transistor	2SB1132			C 604	CCSQSL152J50
D 801 Chip LED	CL203IRXTU			C 702	10µF/10V
D 802 Chip LED	CL203IRXTU			C 703	CKSQYB334K16
X 201 Ceramic Resonator 16.934MHz	CSS1456				
S 801 Spring Switch (HOME)	CSN1051				
S 802 Spring Switch(CLAMP)	CSN1052				
RESISTORS					
R 101	RS1/8S120J				
R 102	RS1/8S100J				
R 103	RS1/16S222J				
R 201	RS1/16S104J				
R 202	RS1/16S103J				
R 203	RS1/16S393J				
R 204	RS1/16S103J				
R 205	RS1/16S103J				
R 206	RS1/16S182J				
R 207	RS1/16S123J				
R 302	RS1/16S153J				
R 303	RS1/16S103J				
R 501	RS1/16S102J				
R 502	RA4C681J				
R 601	RS1/16S102J				
R 602	RS1/16S102J				
R 605	RS1/16S0R0J				
R 606	RS1/16S0R0J				
R 801	RS1/8S751J				
R 803	RS1/8S751J				
R 902	RS1/16S0R0J				
R 906	RS1/16S0R0J				
CAPACITORS					
C 101	CKSRYB102K50				
C 102	CKSRYB104K16				
C 103	CEV101M6R3				
C 104	CEV470M6R3				
C 105	CKSQYB334K16				
C 106	CKSQYB334K16				
C 107	CKSQYB334K16				
C 201	CKSRYB104K16				
C 202	CKSRYB471K50				
C 203	CKSRYB104K16				
C 205	CEV101M6R3				
C 206	CKSRYB104K16				
C 207	CKSRYB104K16				
C 208	CKSRYB104K16				
C 209	CKSRYB104K16				

D Unit Number :
Unit Name : Photo Unit(S8)

Q 1 Photo-transistor CPT230SX-TU
Q 2 Photo-transistor CPT230SX-TU

Miscellaneous Parts List

M 1	Pickup Unit(Service)(P8)	CXX1285
M 2	Motor Unit(CARRIAGE)	CXB2190
M 3	Motor Unit(LOADING)	CXB2195
	Motor Unit(SPINDLE)	CXB2562

6. ADJUSTMENT

6.1 CD ADJUSTMENT

1) Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND. If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.

*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.

*The unit will not load a disc.

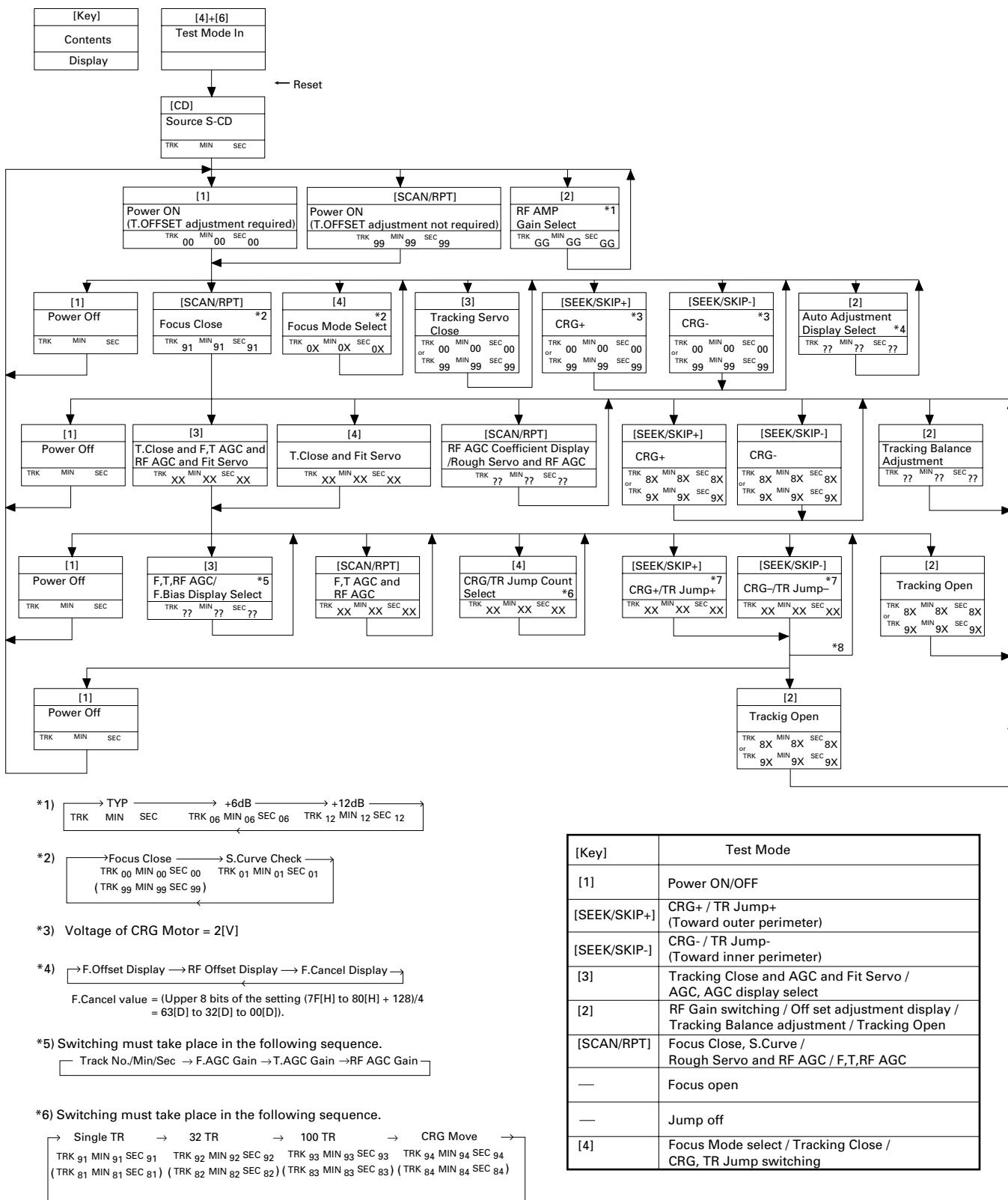
When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

2) Test Mode

This mode is used for adjusting the CD mechanism module of the device.

- Test mode starting procedure
Reset while pressing the **4** and **6** keys together.
- Test mode cancellation
Switch ACC, back-up OFF.
- After pressing the EJECT key, do not press any other key until the disk is completely ejected.
- If the SEEK/SKIP+ or SEEK/SKIP- key is pressed while focus search is in progress, immediately turn the power off (otherwise the actuator may be damaged due to adhesion of the lenses).
- Jump operation of TRs other than 100TR continues after releasing the key. CRG move and 100TR jump operations are brought into the "Tracking close" status when the key is released.

● Flow Chart



6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

• Note :

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

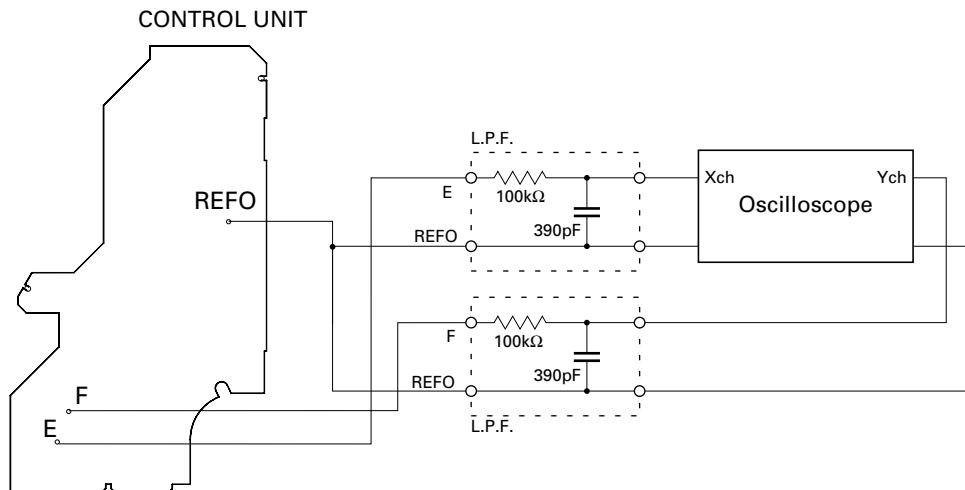
To check that the grating is within an acceptable range when the PU unit is changed.

• Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• Method :

- Measuring Equipment • Oscilloscope, Two L.P.F.
- Measuring Points • E, F, REFOUT
- Disc • ABEX TCD-784
- Mode • TEST MODE



• Checking Procedure

1. In test mode, load the disc and switch the 5V regulator on.
2. Using the **SEEK/SKIP+** and **SEEK/SKIP-** buttons, move the PU unit to the innermost track.
3. Press key **SCAN/RPT** to close focus, the display should read "91". Press key **2** to implement the tracking balance adjustment the display should now read "81". Press key **SCAN/RPT 2** times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

• Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

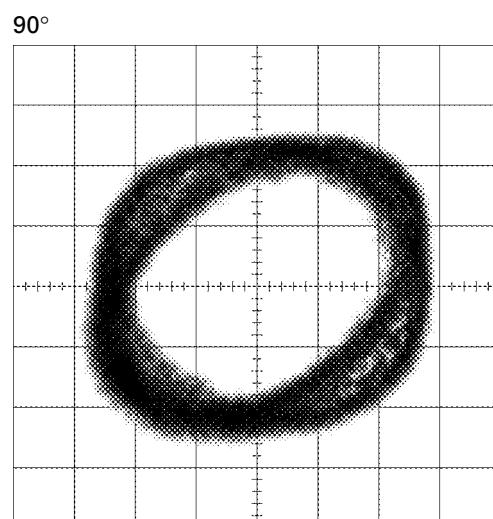
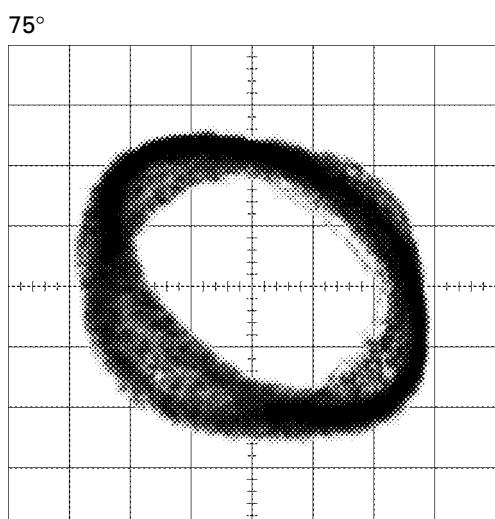
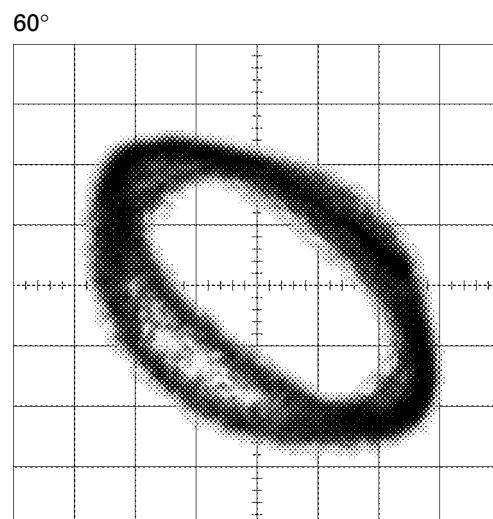
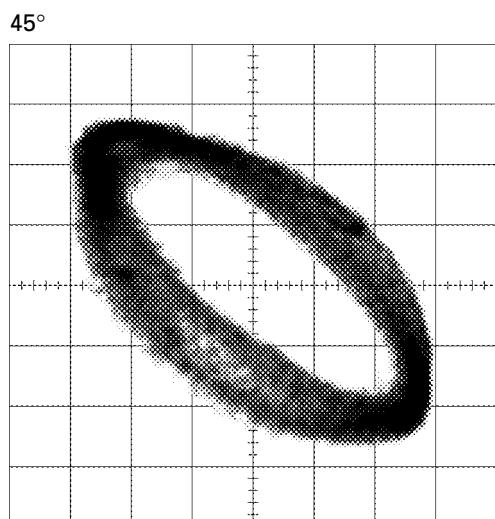
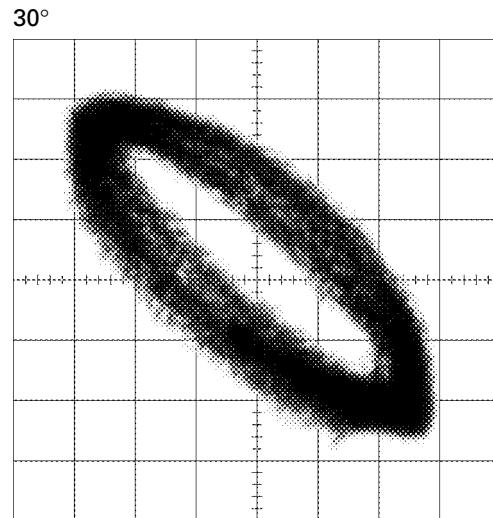
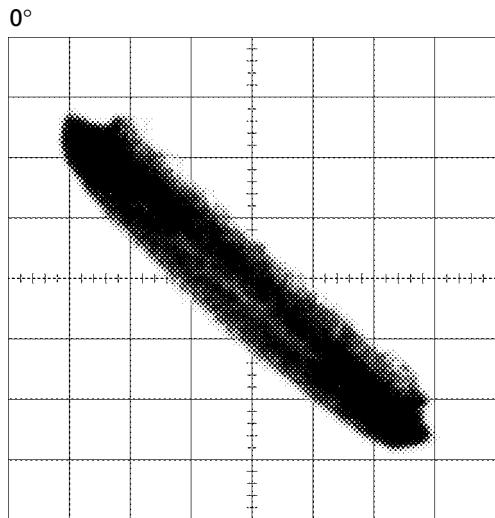
• Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

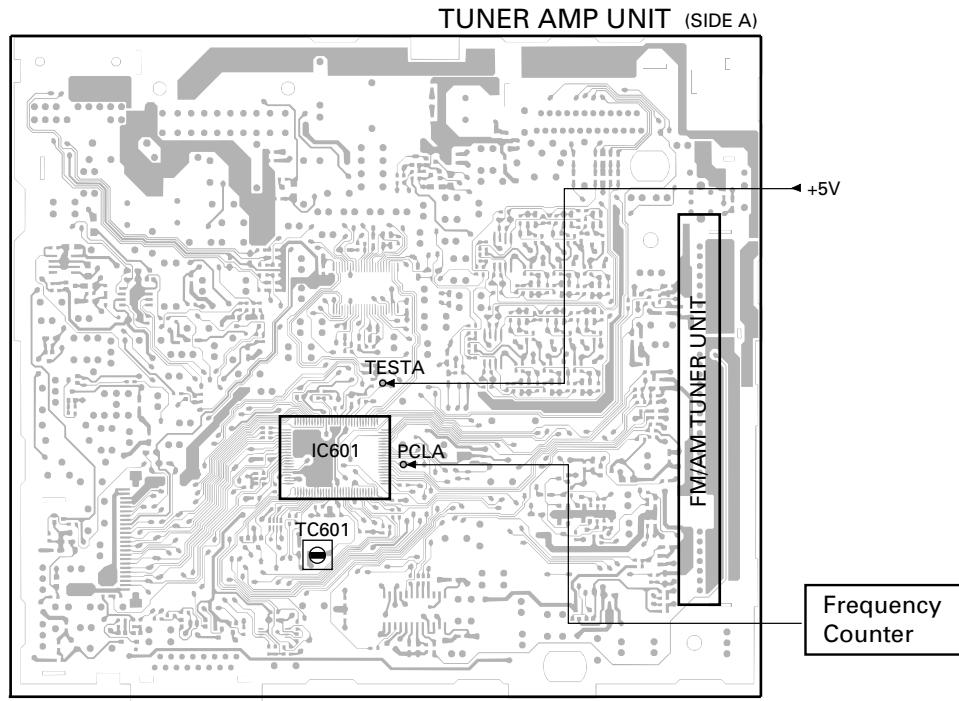
Grating waveform

Ech → Xch 20mV/div, AC

Fch → Ych 20mV/div, AC



6.3 CLOCK ADJUSTMENT



CLOCK ADJUSTMENT

No.		Adjustment Point	Adjustment Method (Switch Position)
1	Switch ACC,back-up On.		
2	Apply +5V to the test point TESTA.	TC601	Frequency Counter : $312.5\text{kHz} \pm 0.001\text{kHz}$

Remarks: The adjustment should be made when the ambient temperature is between 10 degrees C and 30 degrees C.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 ERROR MESSAGES

● Error message table

Error				Presumable causes (For the slave, general conditions)
Source	Display	Error name	BUS data	
Internal CD	ERROR	Mech. error	F0	Mechanical error CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. → Failure on home switch or CRG move mechanism. Communication failure between the microcomputer and the LSI Target address can't be reached →Failure on the carriage/tracking or scratches on the disc. Ground fault of power supply (VD) →Failure on switching transistor or failure of power supply.
	HEAT	High temperature error	F1	High temperature sense
	DISC	Focus error	F2	Focusing not available. → Stains on rear side of disc or excessive vibrations on REWRITABLE. Spindle not locked. Sub-code is strange (not readable). An appropriate RF AMP gain can't be determined. → Failure on spindle, stains or damages on disc, or excessive vibrations. → CD signal error. → A disc not containing CD-R data is found. Turned over disc are found, though rarely. AGC protection cannot be turned on in time or focus can be easily lost →Scratches or stains on the disc or strong vibrations.
External DISC	ERROR	Mech. error	F0	Mechanical error
	HEAT	High temperature error	F1	High temperature sense
	DISC	Focus error	F2	Focusing not available.
External DISC (CHG only)	DISC	Magazine error	F3	An error with an empty magazine inserted. No magazine is available.
External TAPE	TP-ER	error	F0	The BUS status is F0 (ERROR).

7.1.2 DISASSEMBLY

● Removing the Case (not shown)

1. Remove the Case.

● Removing the CD Mechanism Module (Fig.1)

 Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

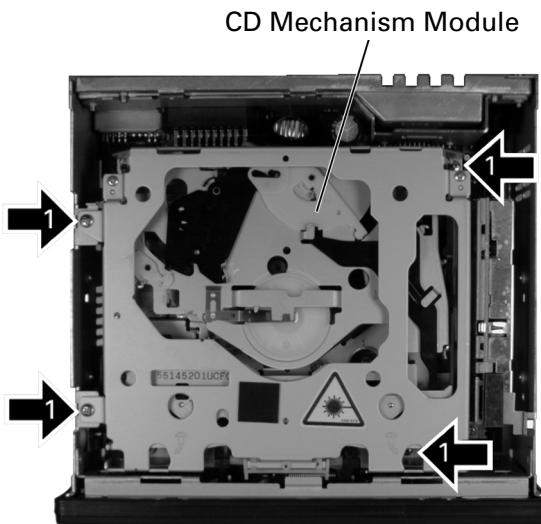


Fig.1

● Removing the Grille Assy (DEH-M6006ZH)(Fig.2)

 Remove the two screws.

 Disconnect the six claws and then remove the Grille Assy.



Fig.2

● Removing the Grille Assy (DEH-M6017ZH)(Fig.3)

The cushion has been stuck onto the frame of the Grille Assy with double-faced adhesive tape. Remove the cushion from the frame.

 Remove the two screws.

 Disconnect the six claws and then remove the Grille Assy.

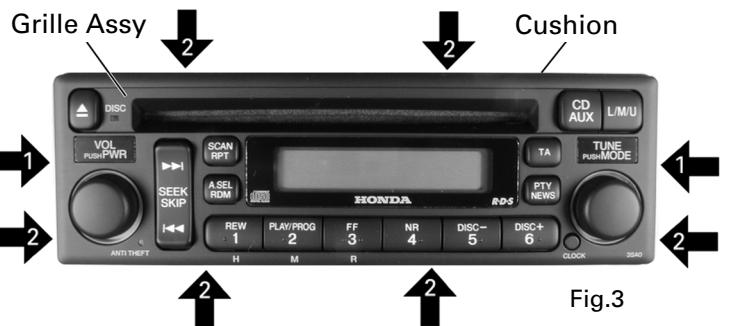


Fig.3

● Removing the Heat Sink (Fig.3)

- 1 Remove the two screws(M3 x 12).
- 2 Remove the screw(M3 x 6).
- 3 Remove the two screws.
- 4 Remove the screw and then remove the Heat Sink.

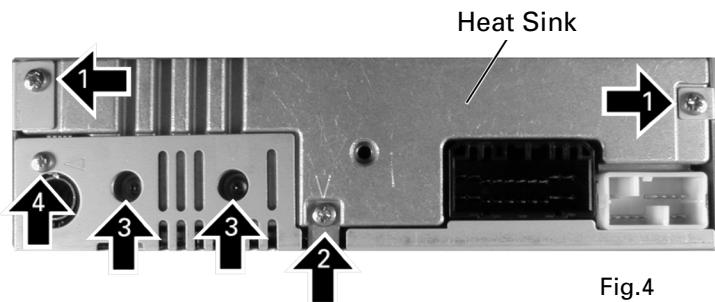


Fig.4

● Removing the Tuner Amp Unit (Fig.4)

- 1 Remove the screw.
- 2 Straight the tabs at three locations indicated.
- 3 Remove the two screws and then remove the Tuner Amp Unit.

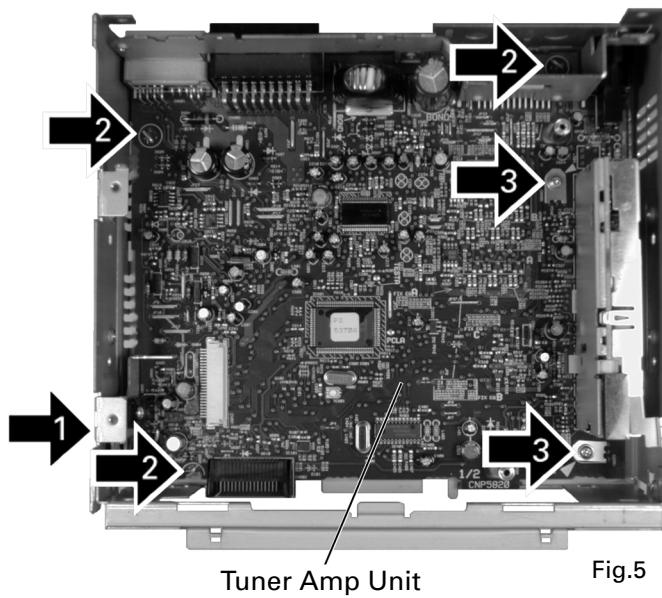
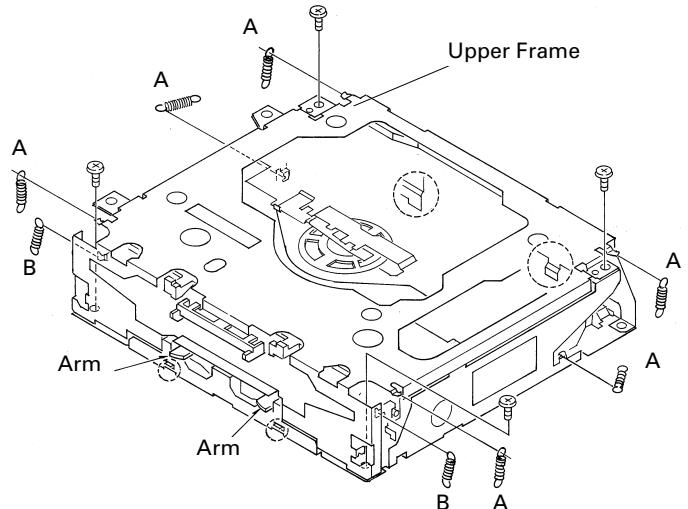


Fig.5

● Removing the Upper Frame

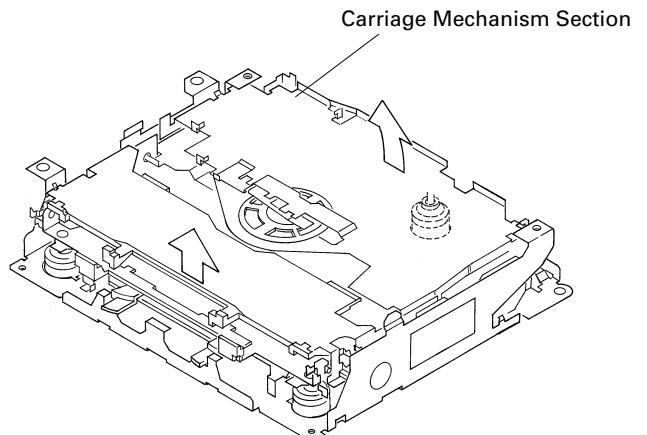
1. Remove six Springs A, two Springs B and four Screws.
2. Remove two Tabs situated on rear side of the Upper Frame, remove two Arms on the front side, then remove two Tabs on the front side.



● Removing the Carriage Mechanism

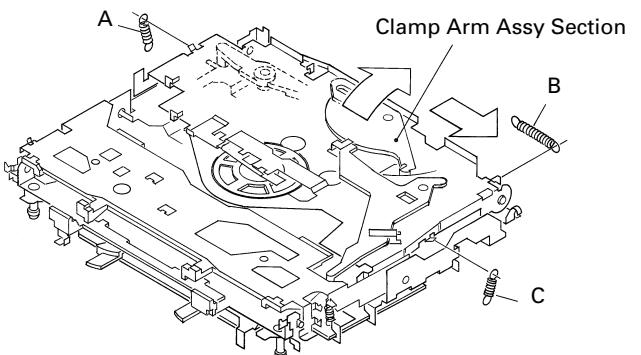
1. Disengage the Carriage Mechanism from the two dampers situated in the front side by driving it up, then disengage and remove the mechanism from the one damper by driving it up aslant into front side direction.

Note : When assembling the Carriage Mechanism, coat the dampers with alcohol prior to the assembly.



● Removing the Clamp Arm Assy

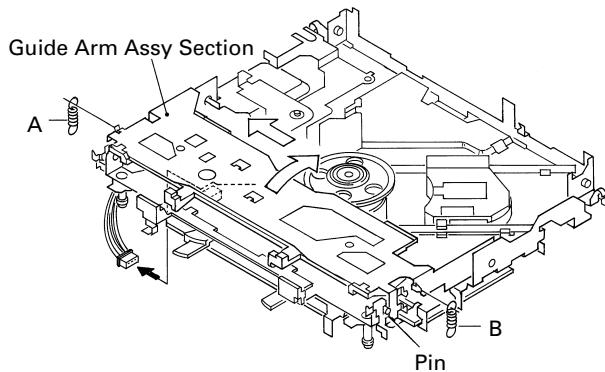
1. Remove a Spring A, a B and a Spring C.
2. Drive the Clamp Arm Assy up into rear side direction, then disengage the arm from its current position. Finally, drive the assembly approximately 45 degrees upward, then slide the assembly toward right side to remove it.



● Removing the Guide Arm Assy

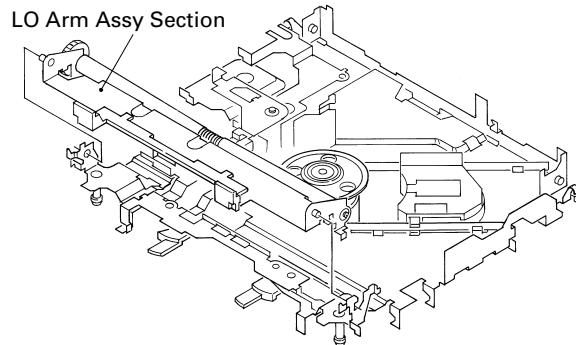
1. Remove a connector, a spring A and B
2. Drive the Guide Arm Assy up aslant into rear side direction, then remove it from a Pin. Finally, drive the assembly approximately 45 degrees upward, then slide the assembly toward left side to remove it.

Note : When assembling the guide arm assembly, route the cord inside the assembly. In this operation, care must be exercised so that cord may be caught by the gear.



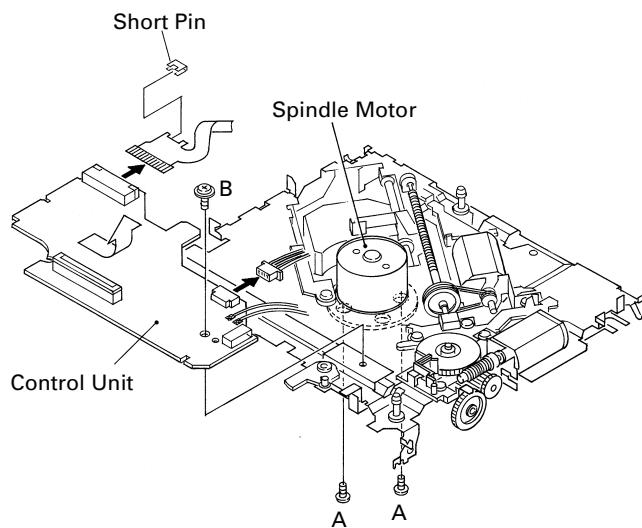
● Removing the LO Arm Assy

1. Remove two Pins to dismount the LO Arm Assy.



● Removing the Control Unit and the Spindle Motor

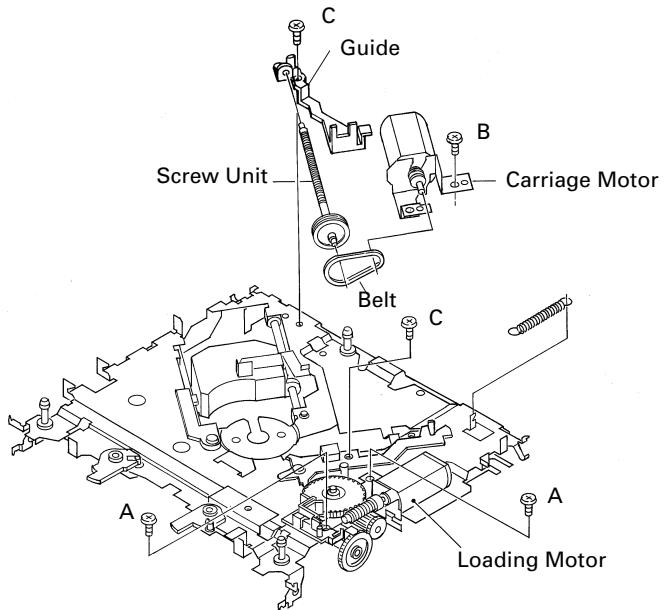
1. Remove from the connector after mounting the short pin on the flexible PCB of the pickup unit.
2. Remove two Soldered joints, then remove two Screws A.
3. Remove two connectors and a Screw B.
4. Disengage the Control Unit from two Tabs, then dismount the unit by sliding it toward left.
5. Dismount the Spindle Motor.



● Removing the Loading Motor and Carriage Motor

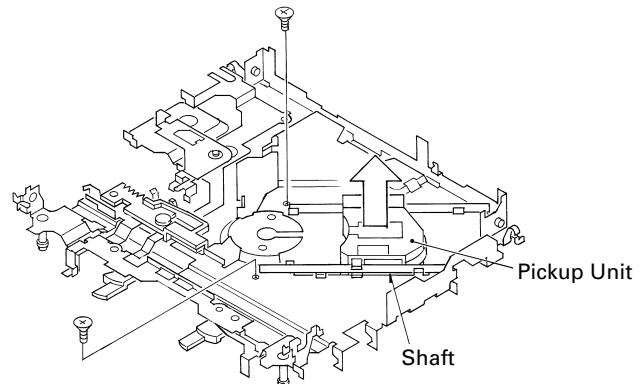
1. Remove the Spring and two Screws A.
2. Dismount the Loading Motor.
3. Remove the Belt, a Screw B, two Screws C, a Guide and a Screw Unit.
4. Dismount the Carriage Motor.

Note : When assembling the Belt, use care so that it may not be contaminated by grease.

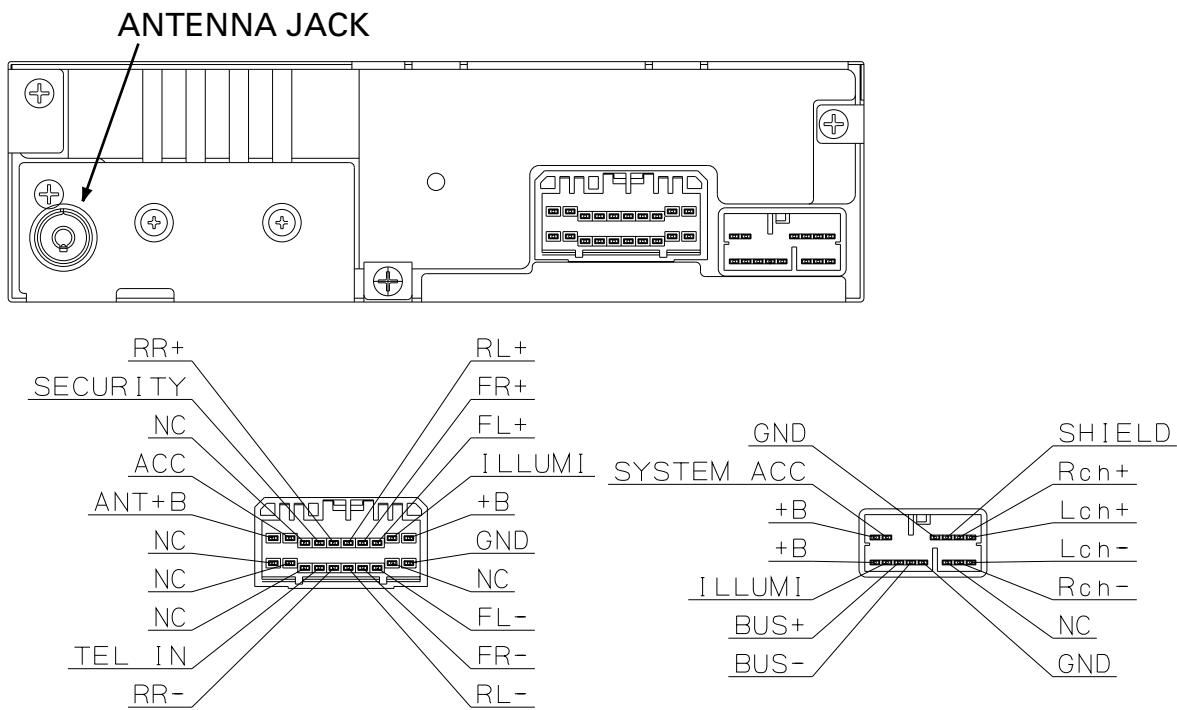


● Removing the Pickup Unit

1. Remove two Screws and a Shaft.
2. Dismount the Pickup Unit.



7.1.3 CONNECTOR FUNCTION DESCRIPTION



7.2 PARTS

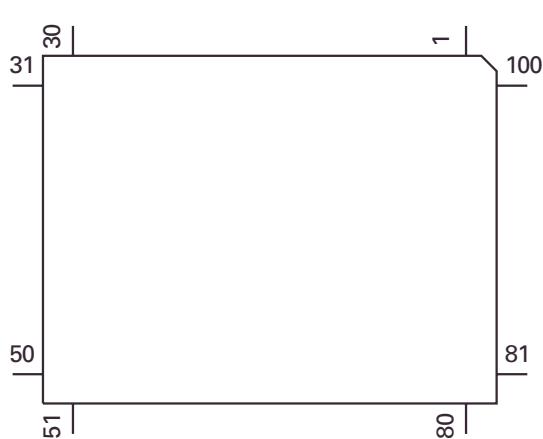
7.2.1 IC

● Pin Functions (PD5667A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	ATDO	O	C	Anti-theft communication data output
2	ATCK	O	C	Anti-theft communication clock output
3	ATCE	O	C	Anti-theft communication chip enable
4	LCE	O	C	Chip enable output pin for LCD driver
5	LDO	O	C	LCD driver data output
6	LDI	I		LCD driver data input
7	LCK	O	C	Clock output for LCD driver
8	BYTE	I		Connect to GND
9	CNVSS	I		Connect to GND
10	TUNE UP	I		Encoder 2 input
11	TUNE DOWN	I		Encoder 2 input
12	RESET	I		Reset input
13	XOUT	O		Crystal oscillating element connection pin
14	VSS			GND
15	XIN	I		Crystal oscillating element connection pin
16	VCC			5V
17	NC			Not used
18	RCK	I		RDS clock input
19	LDET	I		PLL lock sense input
20	CDEJ	I		CD eject key sense input
21	BUS	I		BUS data input
22	IPPW	O	C	IP-BUS driver power supply output
23	BLPOW	O	C	LCD back light output
24	PEE1	O	C	Beep tone output
25	RDS57K	I		RDS 57kHz pulse count input
26	VOL UP	I		Encoder 1 input
27	VOL DOWN	I		Encoder 1 input
28	PEE2	O	C	Beep tone output
29	DIN	I		BUS data input
30	DOUT	O		BUS data output
31	XDSO	O	C	CDS serial data output
32	XDSI	I		CDS serial data input
33	XDSCK	O	C	CDS serial clock output
34	DISCIND	O	C	DISC detect indicator
35	PDO	O	C	Data output for PLL IC
36	PDI	I		Data input from PLL IC
37	PCK	O	C	Serial clock output for PLL IC
38	PLLPC	O	C	PLL IC communication chip enable
39	PCL	O	C	Clock adjustment output
40	RDT	I		RDS demodulation data input
41	DRST	O	C	Decoder reset output
42	RDSLK	I		RDS signal input
43	NL2DT	I		SK signal input
44	SDBW	I		SDBW input
45	CURRQ	O	C	Current request
46	SD	I		SD input
47	TMUTE	O	C	Tuner mute output
48	RECEIVE	O	C	During RDS data reception output
49	ST	I		FM stereo input
50	LOCL	O	C	Local L output
51	LOCH	O	C	Local H output
52	FM/AM	O	C	FM/AM power select output
53	VST	O	C	Strobe pulse output for electronic volume
54	VCK	O	C	Clock output for electronic volume
55	VDT	O	C	Data output for electronic volume
56,57	NC			Not used
58	PLLCE2	O	C	EEPROM chip enable

Pin No.	Pin Name	I/O	Format	Function and Operation
59	TELIN	I		TEL mute signal input
60	NC			Not used
61	TESTIN	I		Test program mode input
62	VDD			5V
63	NC			Not used
64	VSS			GND
65	ANTPW	O	C	Antenna power output
66	NC			Not used
67	MODEL	I		Clock function select
68	RH/LH	I		VOL/TUNE select
69	ASENBO	O	C	Slave power supply control output
70	<u>SWVDD</u>	O	C	Grille power supply control output
71	SYSPW	O	C	System power supply control output
72	MUTE	O	C	Mute output
73	REM			Not used
74	BSENS	I		Back up power sense input
75	ASENS	I		ACC power sense input
76	CDEJCT	O	C	CD eject control output
77	CDLOAD	O	C	LOAD motor loading control output
78	CD5VON	O	C	CD +5V power supply control output
79	CONT	O	C	Servo driver power supply control
80	VDCONT	O	C	VD control output
81	LOCK	I		Spindle lock detector input
82	MIRR	I		Mirror detector input
83	FOK	I		FOK signal input
84	XSTB	O	C	Strobe output (CD)
85	XAO	O	C	CD LSI data discernment control signal output
86	XRST	O	C	CD LSI reset output
87	CLAMP	I		Disc clamp sense input
88	ANTLED	O	C	Antitheft indicator
89	NC	I		Not used
90	DSCSNS	I		Disc detect
91	EJTSNS	I		Disc EJECT position detect
92	TEMP	I		Temperature detector
93	VDSENS	I		Over voltage sense input
94	NC			Not used
95	NL1	I		RDS noise level input
96	AVSS	I		A/D GND
97	SL	I		RDS signal level
98	VREF	I		A/D converter reference voltage input
99	AVCC	I		Analog power supply
100	ATDI	I		Anti-theft communication data input

*PD5667A



Format	Meaning
C	C MOS

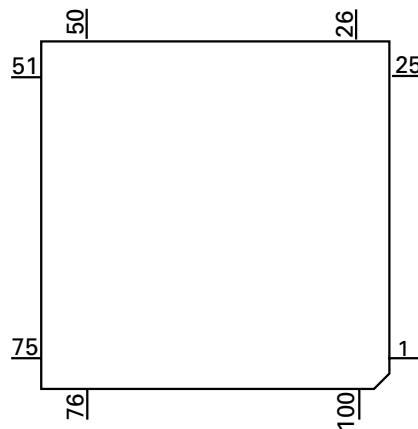
IC's marked by* are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

● Pin Functions (UPD63711GC)

Pin No.	Pin Name	I/O	Function and Operation
1	D.GND		Logic circuit GND
2	RFOK	O	RFOK signal output
3	<u>RST</u>	I	Reset signal input
4	A0	I	Command/parameter identification signal input
5	<u>STB</u>	I	Data strobe signal input
6	SCK	I	Clock signal input for serial data input/output
7	SO	O	Serial data and status signal output
8	SI	I	Serial data input
9	XTALEN	I	Crystal oscillation control pin
10	D.VDD		Positive power supply terminal to logic circuit
11	DA.VDD		Positive power supply terminal to D/A converter
12	R_OUT	O	Right channel audio output signal
13	DA.GND		D/A converter GND
14	REGC	I	The outside putting capacitor connection pin for SCF regulator
15	DA.GND		D/A converter GND
16	L_OUT	O	Left channel audio output signal
17	DA.VDD		Positive power supply terminal to D/A converter
18	R+	O	Right channel audio data output
19	R-	O	Right channel audio data output
20	L-	O	Left channel audio data output
21	L+	O	Left channel audio data output
22	X.VDD		Positive power supply terminal to crystal oscillation circuit
23	XTAL	I	Crystal oscillator connect pin
24	XTAL	O	Crystal oscillator connect pin
25	X.GND		Crystal oscillation circuit GND
26	D.VDD		Positive power supply terminal to logic circuit
27	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
28	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
29	DIN	I	Serial data input to internal DAC
30	DOUT	O	Serial audio data output
31	SCKIN	I	Serial clock input to internal DAC
32	SCKO	O	Audio data that is output from DOUT changes at rising edge of this clock
33	LRCKIN	I	LRCK signal input to internal DAC
34	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT
35	HOLD	O	Defect detection output
36	TX	O	Digital audio interface data output
37	D.GND		Logic circuit GND
38	C16M	O	Oscillator clock buffering output
39	LIMIT	I	Status of the pin is output at Bit 5 of the status output
40	D.VDD		Positive power supply terminal to logic circuit
41	LOCK	O	EFM synchronous detection signal
42	RFCK	O	Frame synchronous signal of XTAL-system
43	MIRR	O	MIRR output
44	PLCK	O	Monitor pin of bit clock
45	D.GND		Logic circuit GND
46	C1D1	O	Output pin for indicating the C1 error correction results
47	C1D2	O	Output pin for indicating the C1 error correction results
48	C2D1	O	Output pin for indicating the C2 error correction results
49	C2D2	O	Output pin for indicating the C2 error correction results
50	C2D3	O	Output pin for indicating the C2 error correction results
51	D.VDD		Positive power supply terminal to logic circuit
52	PACK	O	CD-TEXT PACK synchronous signal
53	TSO	O	CD-TEXT data serial output
54	TSI	I	CD-TEXT control parameter serial input
55	TSCK	I	CD-TEXT serial clock input
56	TSTB	I	CD-TEXT parameter strobe signal input
57	D.GND		Logic circuit GND

Pin No.	Pin Name	I/O	Function and Operation
58	TEST0	I	Test pin
59	TEST1	I	Test pin
60	ATEST	O	Test pin
61	A.GND		Analog circuit GND
62	FD	O	Focus drive output
63	TD	O	Tracking drive output
64	SD	O	Sled drive output
65	MD	O	Spindle drive output
66	DAC0	O	DAC output for adjustment
67	DAC1	O	DAC output for adjustment
68	DAC2	O	DAC output for adjustment
69	DAC3	O	DAC output for adjustment
70	A.VDD		Positive power supply terminal to analog circuit
71	EFM	O	EFM signal output
72	ASY	I	EFM comparator reference voltage input
73	C3T		3T detection capacitor additional pin
74	RFI	I	RF signal input for EFM data regulation
75	AGCO	O	RF signal output of after gain adjustment
76	AGCI	I	RF-AGC amplifier input
77	RFO	O	RF summing amplifier output
78	EQ2		RF amplifier equalizer parts additional pin
79	EQ1		RF amplifier equalizer parts additional pin
80	RF-	I	RF summing amplifier inverted input
81	A.GND		Analog circuit GND
82	A	I	Photo detector A input
83	C	I	Photo detector C input
84	B	I	Photo detector B input
85	D	I	Photo detector D input
86	F	I	Photo detector F input
87	E	I	Photo detector E input
88	A.VDD		Positive power supply terminal to analog circuit
89	REFOUT	O	Reference electric potential output
90	FE-	I	Focus error amplifier inverted input
91	FEO	O	Focus error amplifier output
92	TE-	I	Tracking error amplifier inverted input
93	TEO	O	Tracking error amplifier output
94	TE2	O	Tracking error output of after amplification
95	TEC	I	Tracking comparator input
96	A.GND		Analog circuit GND
97	PD	I	PD detection signal input for LD output monitor
98	LD	O	LD control current output
99	PN	I	APC circuit control polarity set pin
100	A.VDD		Positive power supply terminal to analog circuit

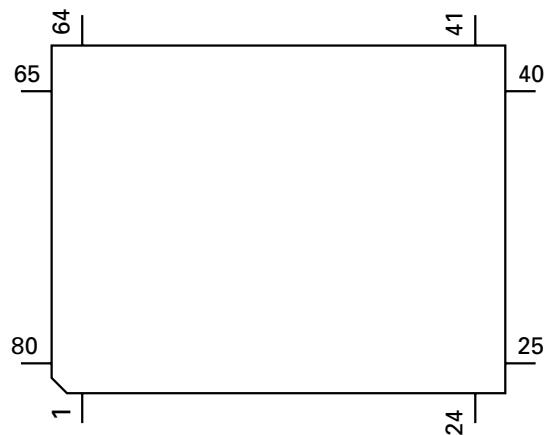
*UPD63711GC



● Pin Functions (LC75883EHS)

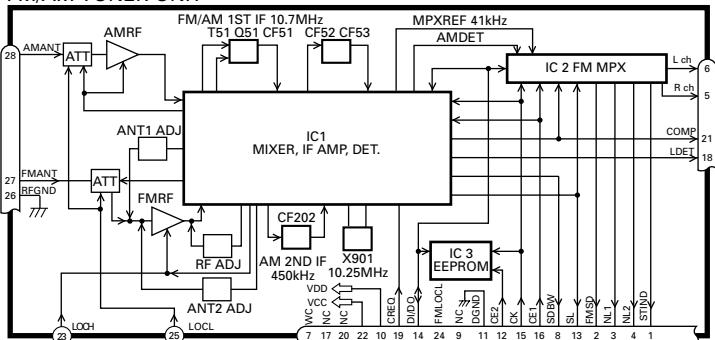
Pin No.	Pin Name	I/O	Function and Operation
1–45	S1–45	O	LCD segment output
46–55	S46–55	O	Not used
56–58	COM1–3	O	LCD common output
59–64	KS1–6	O	Key strobe output
65–69	KI1–5	I	Key data input
70	VDD		Power supply terminal
71,72	VDD1,2		LCD bias power supply
73	VSS		GND
74	TEST		Connect to VSS
75	OSC	I/O	Oscillator terminal
76	RES	I	Connect to VDD
77	DO	O	Data output
78	CE	I	Chip enable
79	CL	I	Clock input
80	DI	I	Data input

*LC75883EHS



● FM/AM Tuner Unit

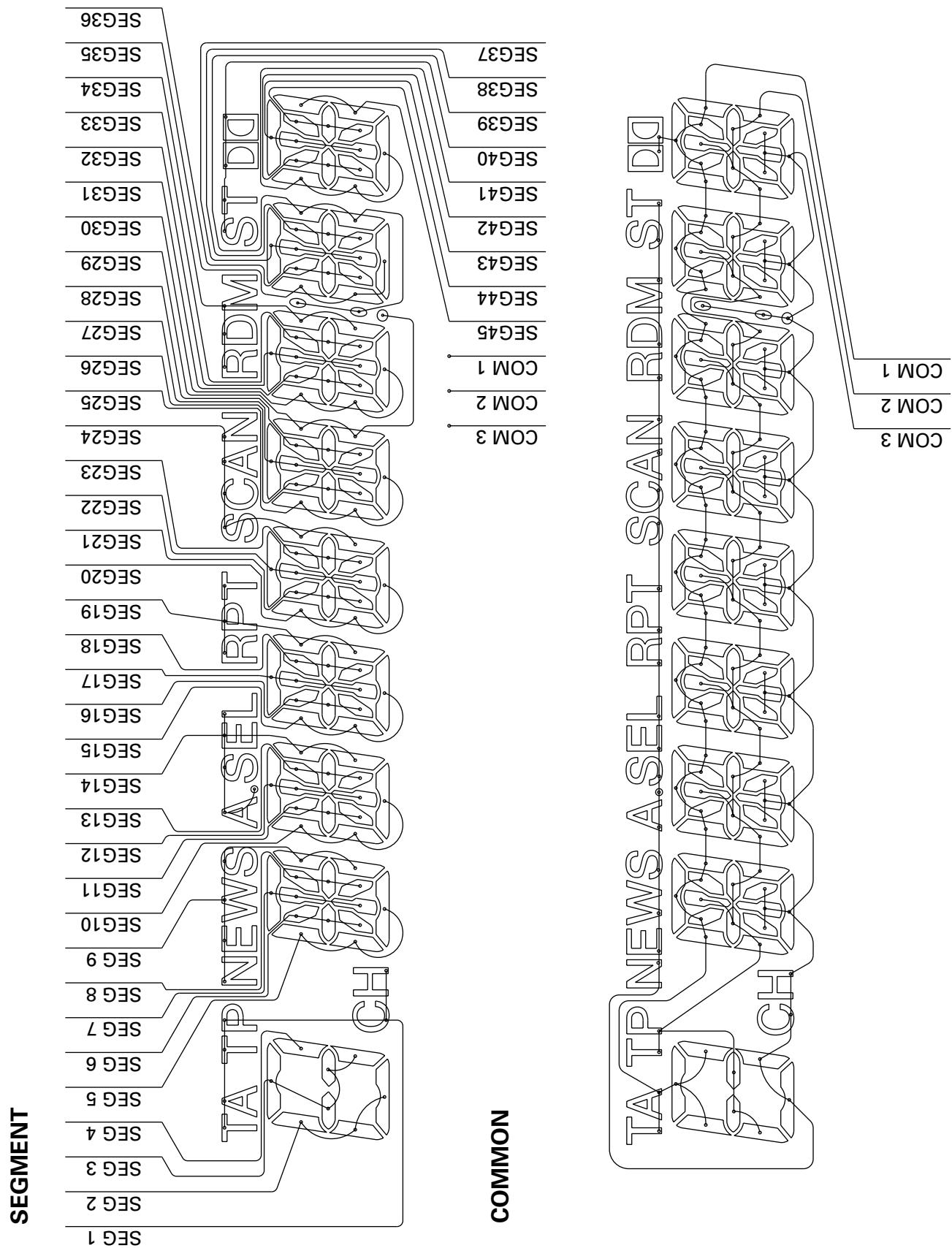
FM/AM TUNER UNIT



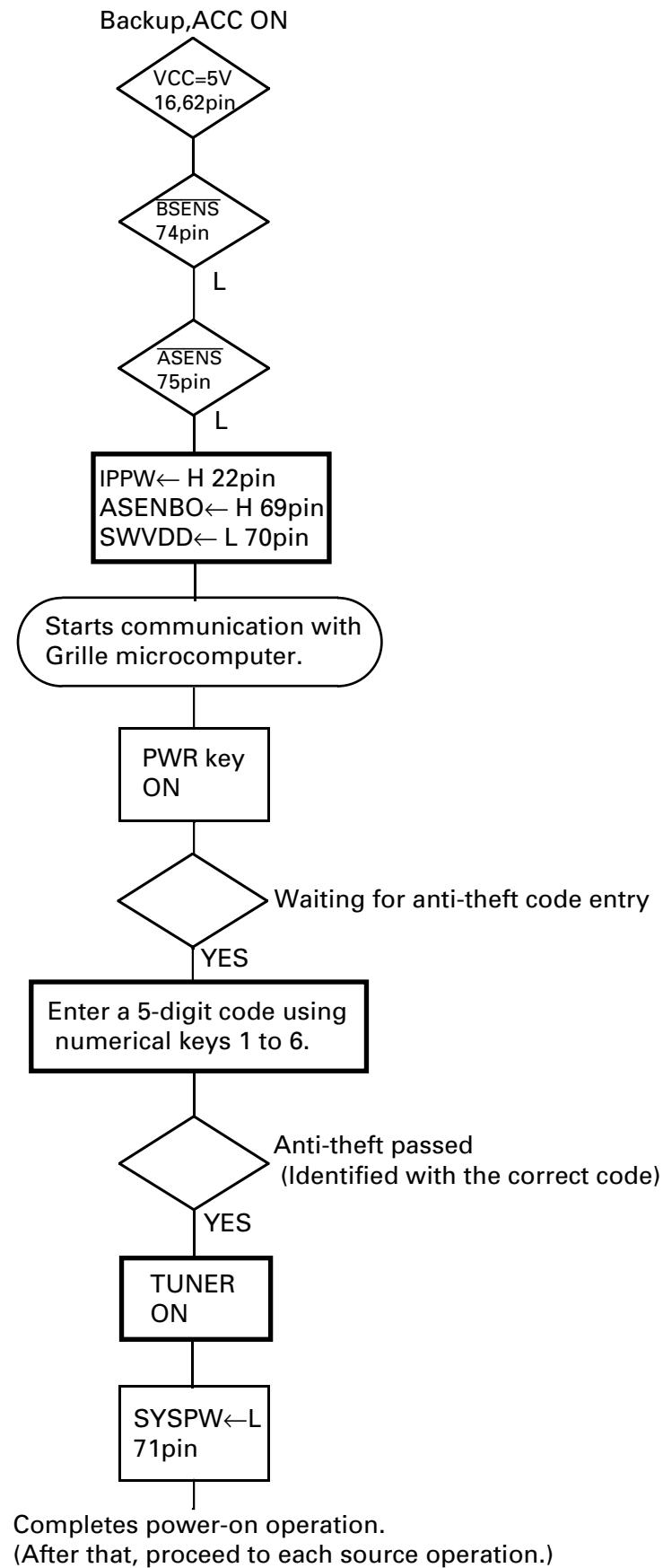
No.	Symbol	I/O	Explain
1	STIND	O	stereo indicator "Low" when the FM stereo signals are received. To be pulled up to the "VDD" at 47kΩ.
2	FMSD	O	FM station detector "High" when signals are received. To be pulled up to the "VDD" at 47kΩ Meanwhile, 10kΩ should be used when taking diver FIX trigger from here and "High: 0.9VDD or more" and "Low: 250mV or less". (Should satisfy the diver IC specifications)
3	NL1	O	noise level-1 "High" when noise is received. Output for the RDS. GND at 47kΩ //1,800pF.
4	NL2	O	noise level-2 "High" when noise is received. Output for the RDS. GND at 36kΩ //330pF.
5	Rch	O	R channel output FM stereo "R-ch" signal output or AM audio output. Add the specified di-emphasis constant.
6	Lch	O	L channel output FM stereo "L-ch" signal output or AM audio output. Add the specified di-emphasis constant.
7	WC	write control	EEPROM write control. Writing permissible at "Low". Normally open.
8	SDBW	O	SD bandwidth SD bandwidth signal output. For detection of detuning data for the RDS.
9	NC		Not used
10	VDD		power supply Power supply pin for the digital section. D.C. 5V +/- 0.25V. Be careful about overlapping noise in the logic section.
11	DGND		digital ground Grounding for the digital section.
12	CE2	I	chip enable-2 EEPROM chip enable. Active a "Low" To be pulled up to the "VDD" at 47kΩ
13	SL	I/O	signal level Received FM/AM signal level (strength) output. Connect the specified load resistor and capacitor (10k Ω + 39k Ω //4,700pF)
14	DI/DO	I/O	data input/ data output Data input/Data output To be pulled up to the "VDD" at 47kΩ
15	CK	I	clock Clock input To be pulled up to the "VDD" at 47kΩ
16	CE1	I	chip enable-1 AF-RF chip enable. Active at "High" To be grounded at 47kΩ
17	NC		Not used
18	LDET	O	lock detector Active at "Low". To be pulled up to the "VDD" at 47kΩ
19	CREQ	I	current request Active at "Low". To be grounded at 47kΩ
20	NC		Not used
21	COMP	O	composite signal output. r out < 100Ω
22	VCC		power supply Analog section power supply pin.D.C.8.4V +/- 0.3V
23	LOCH	I	local high FM local high pin. When seeking local high, apply 5V together with "LOCL".
24	FMLOCL	I	FM local low FM local low pin. When seeking local low, apply 5V to the base of the NPN transistor with which the specified resistor is being connected to the emitter. Keep it open in case of ordinary marketed models.
25	LOCL	I	local low FM/AM local low pin. When seeking local low, apply 5V to the base of the NPN transistor. Since this pin is exclusive for AM when the FMLOCL is in use, do not drive it under FM.
26	RFGND		RF ground Grounding for the antenna section.
27	FMANT	I	FM antenna input 75Ω. Serge absorber (DSP-201M-S00B) is necessary.
28	AMANT	I	AM antenna input AM antenna input. High impedance. Connect to the antenna through an L (LAU type) of 4.7μH. To cope with the power transmission line hums, insert a series circuit consisting of an L (a coil of about 100mH) + R (a resistor of 470 Ω to 2.2kΩ) between the GND.

7.2.2 DISPLAY

● CAW1588



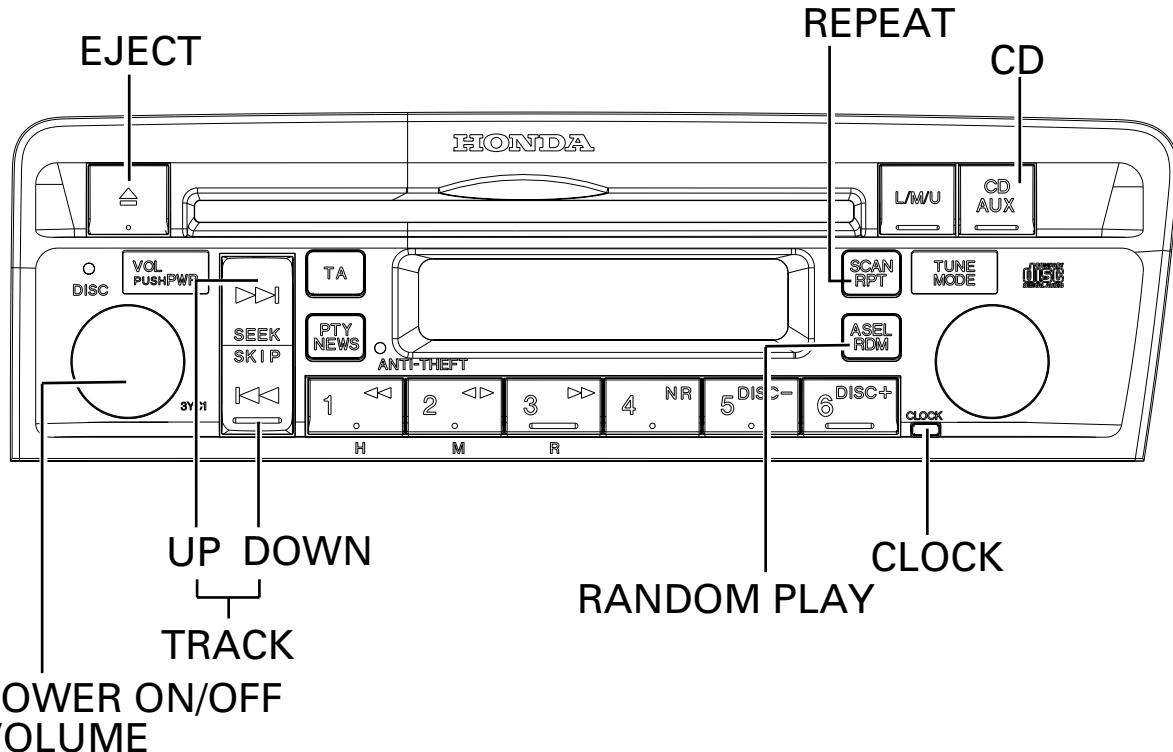
7.3 OPERATIONAL FLOW CHART



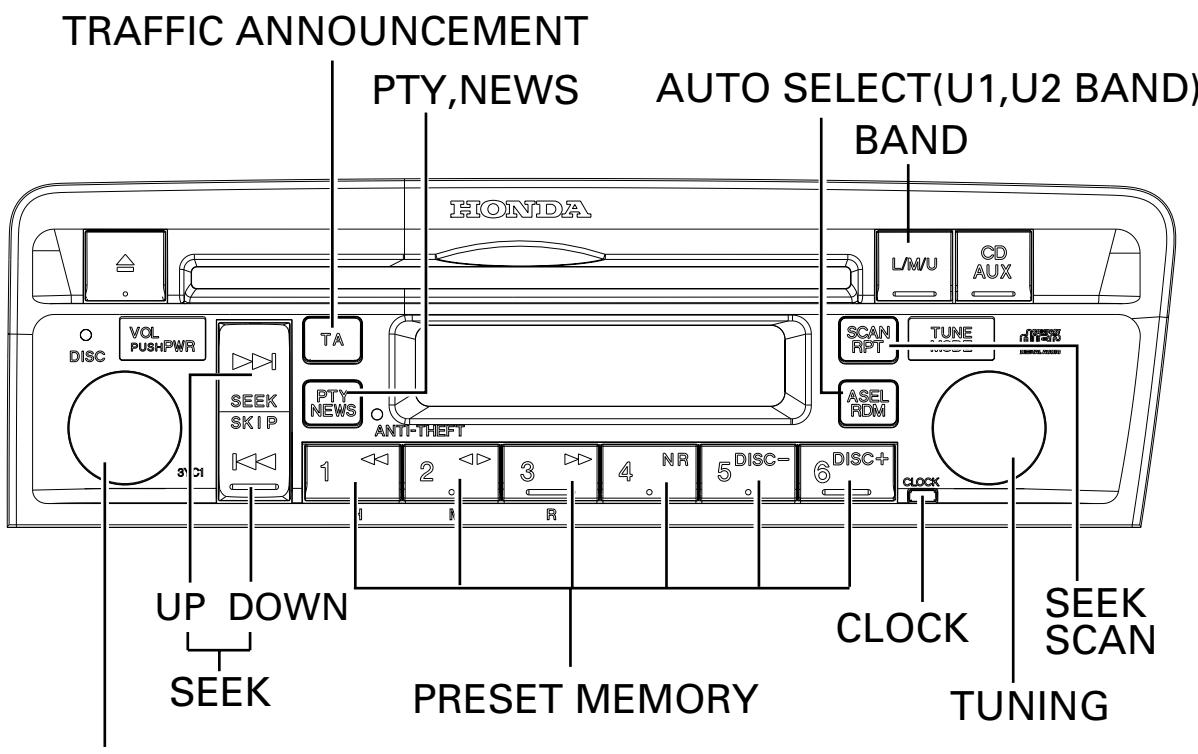
8. OPERATIONS AND SPECIFICATIONS

8.1 OPERATIONS(DEH-M6006ZH)

● CD



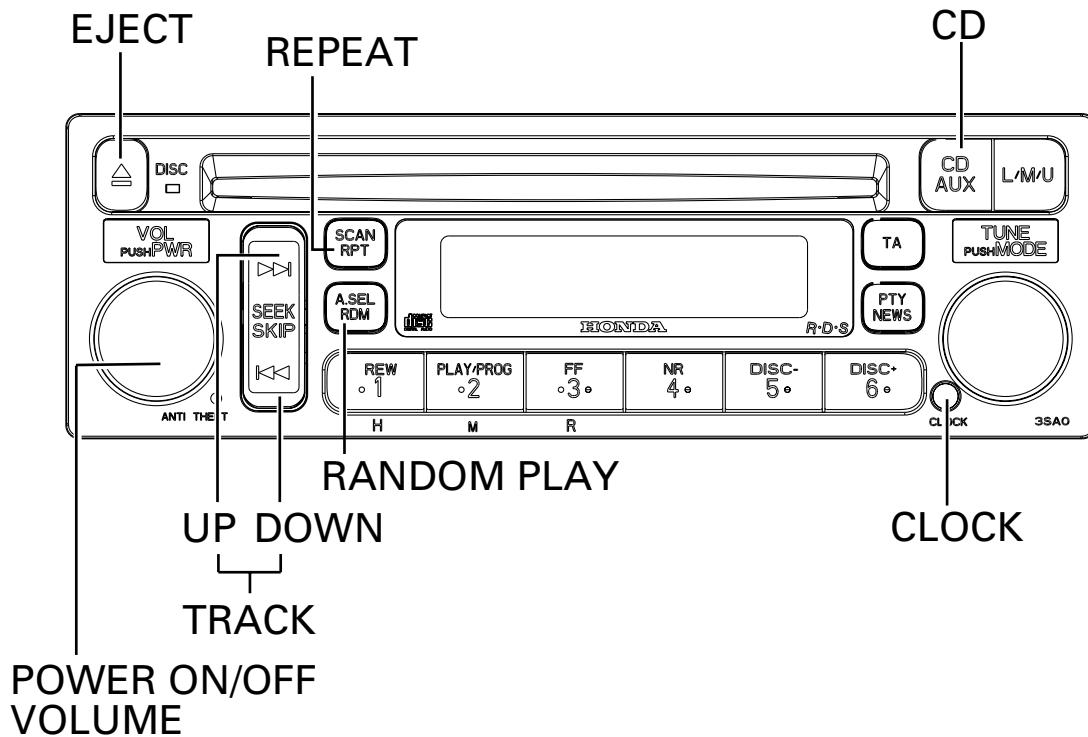
● RADIO



POWER ON/OFF
VOLUME

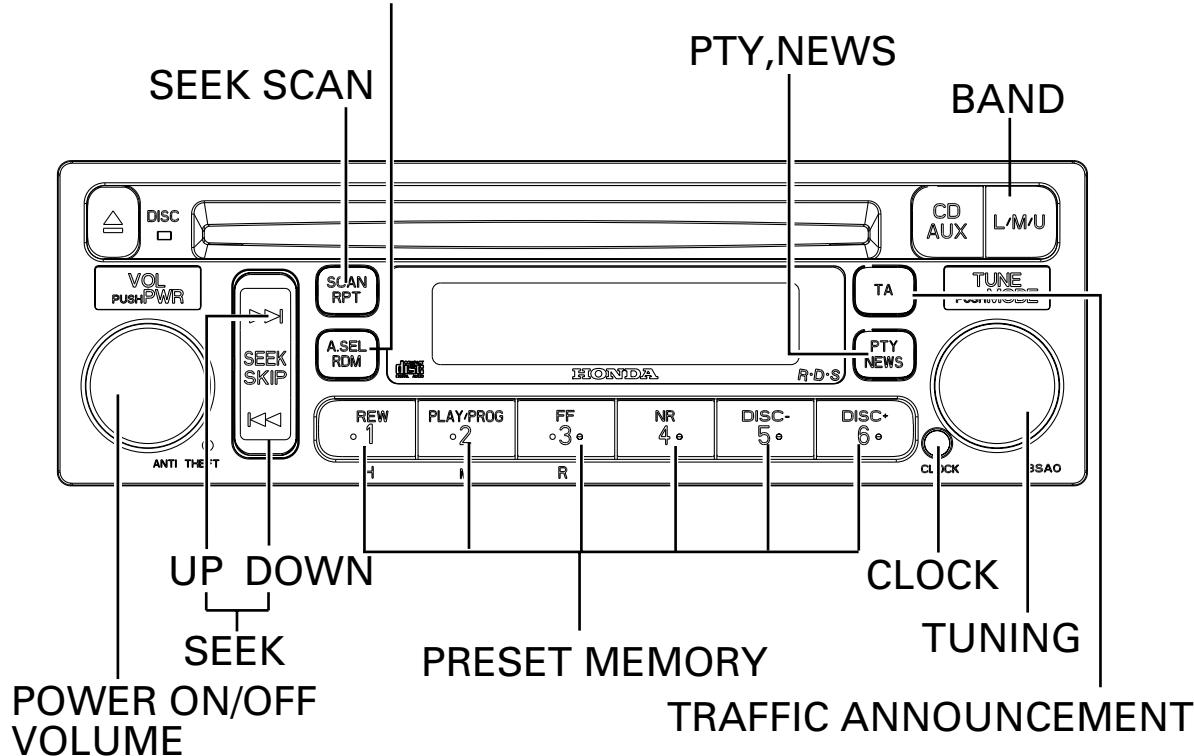
8.2 OPERATIONS(DEH-M6017ZH)

● CD



● RADIO

AUTO SELECT(U1,U2 BAND)



8.2 SPECIFICATIONS

General

Power source 13.2 V(10.8V—16.0V allowable)
 Backup current less than 5 mA
 Grounding system Negative type
 Weight 1.5 kg

CD player

System Compact disc audio system
 Usable discs Compact disc
 Signal format Sampling frequency : 44.1kHz
 Number of quantization : 16;linear
 S/N 60dB or more
 Distortion 0.2% or less

FM tuner

Frequency range 87.5 — 108.0 MHz
 Usable sensitivity 12 dBf ± 6dB (S/N: 30 dB)
 Signal-to-noise ratio more than 45 dB(stereo)
 Distortion less than 1.3%
 Stereo separation more than 22 dB

MW tuner

Frequency range 531 - 1,602 kHz(9 kHz)
 Usable sensitivity 27 dBμ ± 6 dB (S / N : 20 dB)
 Selectivity more than 56 dB
 Signal-to-noise ratio more than 40 dB
 Distortion less than 0.9%

LW tuner

Frequency range 153 - 281 kHz(9 kHz)
 Usable sensitivity 30 dBμ ± 6 dB (S / N : 20 dB)
 Selectivity more than 56 dB
 Signal-to-noise ratio more than 40 dB
 Distortion less than 0.9%