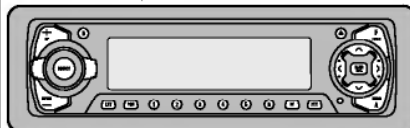


Service Manual

Pioneer

DEH-P9100R/EW



ORDER NO.
CRT2485

MULTI-CD/MD/DAB CONTROL DSP HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P9100R

 EW

MULTI-CD/MD/DAB CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P8100R

 EW

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

Model No.	Order No.	Mech. Module	Remarks
CX-916	CRT2300	S8	CD Mech. Module:Circuit Description, Mech.Description, Disassembly

CONTENTS

1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	75
2. EXPLODED VIEWS AND PARTS LIST	3	7.1 DIAGNOSIS	75
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM ...	14	7.1.1 TEST MODE	75
4. PCB CONNECTION DIAGRAM	46	7.1.2 DISASSEMBLY	79
5. ELECTRICAL PARTS LIST	58	7.2 IC	84
6. ADJUSTMENT	71	8. OPERATIONS AND SPECIFICATIONS.....	98

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 N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

© PIONEER CORPORATION 2000

K-ZZD. FEB. 2000 Printed in Japan

● **CD Player Service Precautions**

1. For pickup unit(CXX1285) handling, please refer to "Disassembly"(see page 79).
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 73).

1. SAFETY INFORMATION

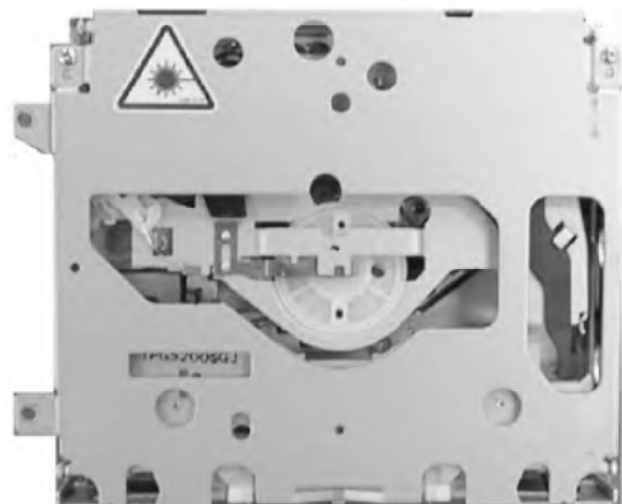
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly 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 bottom of the player.



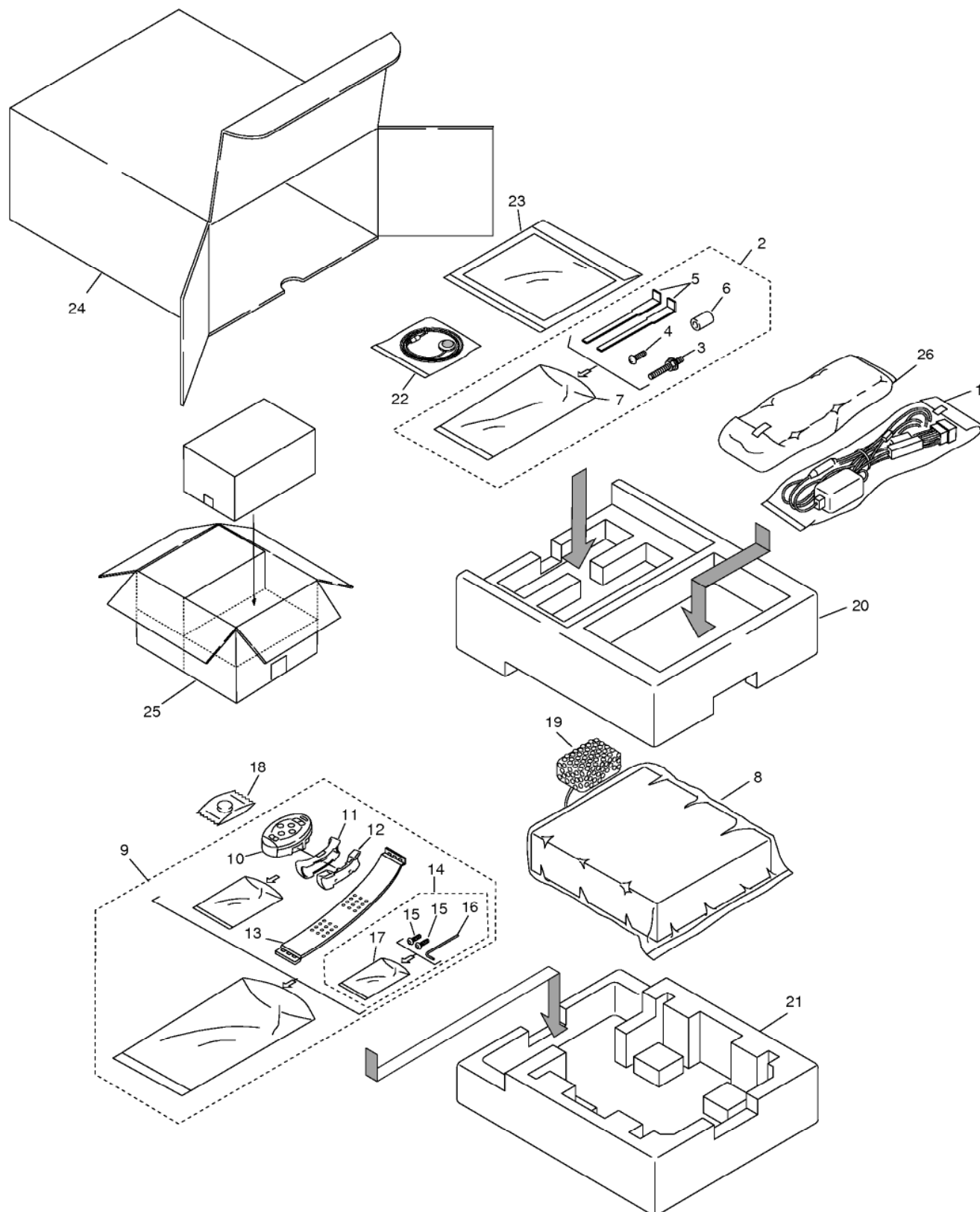
4. Specifications of Laser Diode

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



DEH-P9100R,P8100R

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.

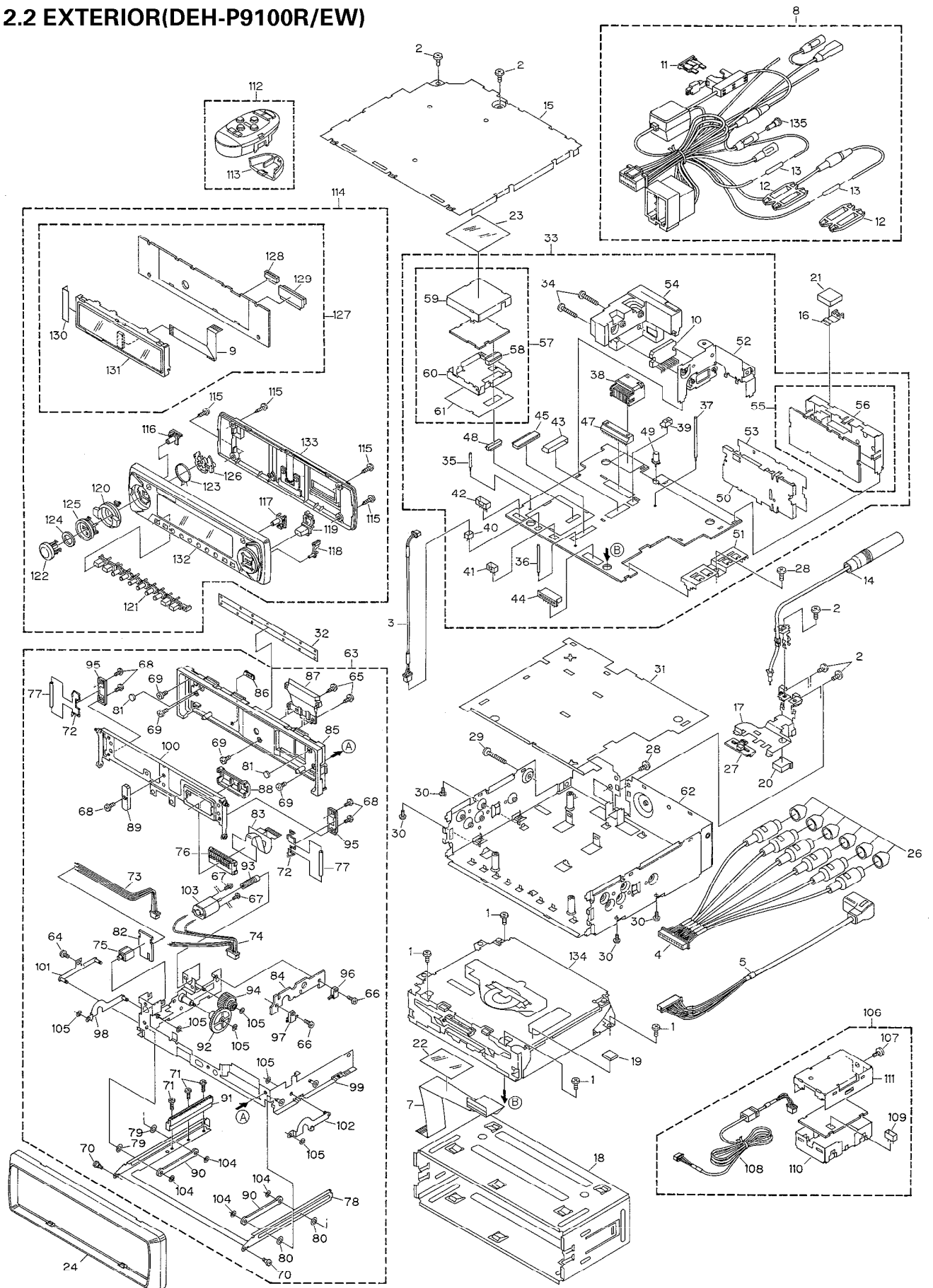
● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.	
			DEH-P9100R/EW	DEH-P8100R/EW
	1	Cord Assy	CDE6337	CDE6337
	2	Accessory Assy	CEA2538	CEA2538
	3	Screw	CBA1002	CBA1002
	4	Screw	CBA1120	CBA1120
	5	Handle	CNC5395	CNC5395
	6	Bush	CNV1917	CNV1917
*	7	Polyethylene Bag	E36-615	E36-615
*	8	Cover	CEG1088	CEG1088
	9	Remote Control Assy	CXB3488	CXB3488
	10	Remote Control Assy	CZX3231	CZX3231
	11	Holder Assy	CZX3172	CZX3172
	12	Holder Assy	CZX3173	CZX3173
	13	Belt	CZN6416	CZN6416
	14	Screw Assy	CZE3169	CZE3169
*	15	Screw	RMZ30H060FBK	RMZ30H060FBK
*	16	Hexagonal Wrench	CZE3176	CZE3176
*	17	Polyethylene Bag	CEG-127	CEG-127
	18	Battery	CEX1030	CEX1030
	19	Air Cushioned Bag	CEG1192	Not used
	20	Protector	CHP2032	CHP2032
	21	Protector	CHP2033	CHP2033
	22	Microphone Assy	CPM1022	Not used
	23-1	Owner's Manual	CRD3207	CRD3216
	23-2	Owner's Manual	CRD3208	CRD3217
	23-3	Owner's Manual	CRD3209	CRD3218
	23-4	Installation Manual	CRD3210	CRD3219
*	23-5	Caution Card	CRP1207	CRP1207
*	23-6	Label	CRW1343	CRW1343
	23-7	Passport	CRY1013	CRY1013
*	23-8	Warranty Card	CRY1157	CRY1157
	23-9	Polyethylene Bag	CEG1116	CEG1116
	24	Carton	CHG4041	CHG4042
	25	Contain Box	CHL4041	CHL4042
	26	Case Assy	CXB3520	CXB3520

● Owner's Manual, Installation Manual

Model	Part No.	Language
DEH-P9100R/EW	CRD3207	English, Spanish
	CRD3208	German, French
	CRD3209	Italian, Dutch
	CRD3210	English, Spanish, German, French, Italian, Dutch
DEH-P8100R/EW	CRD3216	English, Spanish
	CRD3217	German, French
	CRD3218	Italian, Dutch
	CRD3119	English, Spanish, German, French, Italian, Dutch

2.2 EXTERIOR(DEH-P9100R/EW)

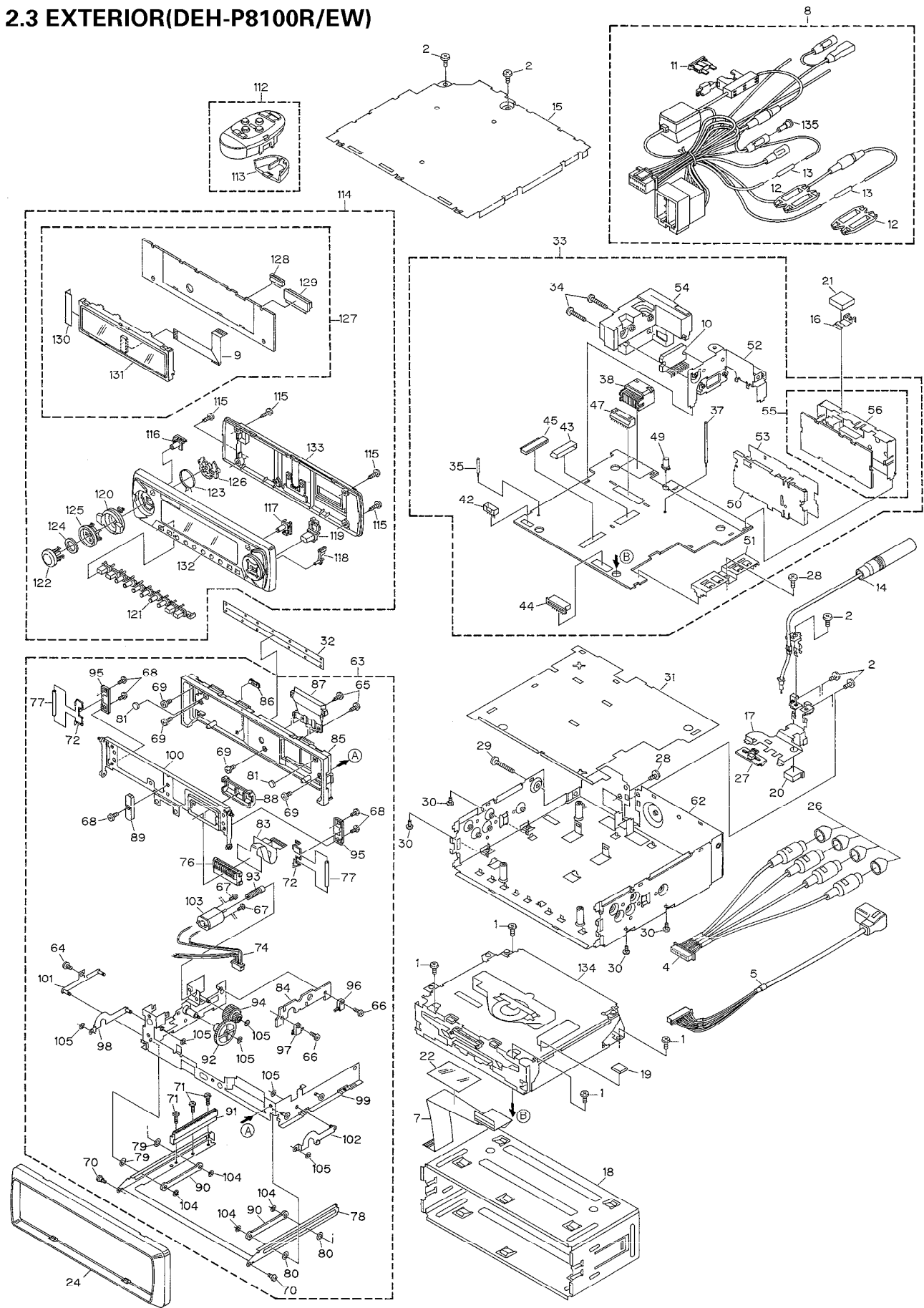


● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Screw	BSZ26P060FMC		46	*****	
	2	Screw	BSZ30P050FMC		47	Connector(CN351)	CKS3606
	3	Cord	CDE5536		48	Connector(CN252)	CKS3781
	4	Cord Assy	CDE5840		49	Mini Pin Jack(CN451)	CKX1046
	5	Cord Assy	CDE5842		50	Holder	CNC7533
	6	*****			51	Holder	CNC8168
	7	Connector	CDE5846		52	Holder	CNC8169
	8	Cord Assy	CDE6337		53	Insulator	CNM5967
*	9	PCB	CNP5508		54	Heat Sink	CNR1535
	10	IC(IC301)	PAL005A		55	FM/AM Tuner Unit	CWE1500
	11	Fuse(10A)	CEK1136		56	Holder	CNC7532
	12	Cap	CNS1472		57	DSP Unit	CWX2323
	13	Resistor	RS1/2PMF102J		58	Connector(CN3001)	CKS3782
	14	Antenna Cable	CDH1256		59	Case	CNC8166
	15	Case	CNB2426		60	Case	CNC8167
	16	Earth Plate	CNC7358		61	Insulator	CNM6130
	17	Holder	CNC8170		62	Chassis Unit	CXB5727
	18	Holder	CNC8659		63	Panel Assy	CXB3582
	19	Cushion	CNM6065		64	Screw	BMZ20P030FMC
	20	Cushion	CNM6131		65	Screw	BPZ20P060FMC
	21	Spacer	CNM6482		66	Screw(M2x7)	CBA1060
	22	Insulator	CNM6897		67	Screw(M2x3)	CBA1061
	23	Insulator	CNM6898		68	Screw(M2x3)	CBA1082
	24	Panel	CNS5256		69	Screw(M2x3)	CBA1154
	25	*****			70	Screw(M2x1.5)	CBA1430
	26	Cap	CNV2680		71	Screw(M1.4x4)	CBA1454
	27	Holder	CNV6396		72	Spring	CBH2130
	28	Screw	BSZ30P050FMC		73	Cord	CDE5856
	29	Screw	BSZ30P200FMC		74	Cord	CDE5960
	30	Screw(M2x2.5)	CBA1447		75	Mini Jack(CN4602)	CKN1015
	31	Insulator	CNM6135		76	Connector	CKS3997
	32	Cover	CNM6489		77	Roller	CLA3583
	33	Tuner Amp Unit	CWM6212		78	Frame	CNC8201
	34	Screw	BMZ26P160FMC		79	Spacer	CNM6155
	35	Clamper	CEF1004		80	Spacer	CNM6156
	36	Clamper	CEF1008		81	Spacer	CNM6419
	37	Clamper	CEF1009		82	PCB	CNP5341
	38	Plug(CN901)	CKM1278		83	PCB	CNP5355
	39	Plug(CN141)	CKS-766		84	PCB	CNP5321
	40	Plug(CN251)	CKS-783		85	Panel	CNS5232
	41	Plug(CN131)	CKS-784	*	86	Lighting Conductor	CNV5391
	42	Plug(CN851)	CKS-786		87	Lighting Conductor	CNV5605
*	43	Plug(CN101)	CKS1058		88	Cover	CNV5610
	44	Connector(CN801)	CKS1532		89	Guide	CNV5672
	45	Connector(CN991)	CKS1960		90	Guide	CNV5696

Mark No.	Description	Part No.
91	Rack	CNV5697
92	Gear	CNV5698
93	Gear	CNV5761
94	Torque Limiter Unit	CNV5762
95	Holder	CNV5763
96	Switch(S951)	CSN1012
97	Switch(S952)	CSN1022
98	Arm Unit	CXB3574
99	Frame Unit	CXB3575
100	Holder Unit	CXB3576
101	Bracket Unit	CXB3577
102	Arm Unit	CXB3866
103	Motor(M951)	CXM1085
104	Washer	2-1816-0035-D2-00
105	Washer	2-1821-0045-D2-00
106	ASL Unit	CWX2322
107	Screw	BSZ30P050FMC
108	Cord Assy	CDE5845
109	Plug(CN4501)	CKS-784
110	Case	CNB2299
111	Case	CNB2300
112	Remote Control Assy	CZX3231
113	Cover	CZN6410
114	Detach Grille Assy	CXB5455
115	Screw	BPZ20P080FZK
116	Button(DISP)	CAC6511
117	Button(OPEN)	CAC6512
118	Button(RESET)	CAC6513
119	Button(BAND)	CAC6515
120	Knob(EQ)	CAC6732
121	Button(1-6)	CAC6721
122	Button(SOURCE)	CAC6719
123	Spring	CBH2415
124	Cushion	CNM6767
125	Lighting Conductor	CNV6214
126	Lighting Conductor	CNV6215
127	Keyboard Unit	CWM7063
128	Connector(CN1902)	CKS3995
129	Connector(CN1901)	CKS3996
130	Insulator	CNM6775
131	OEL Module	MXK8002
132	Grille Unit	CXB5327
133	Cover Unit	CXB5339
134	CD Mechanism Module(S8)	CXK5252
135	Terminal Cover	CKX-003

2.3 EXTERIOR(DEH-P8100R/EW)



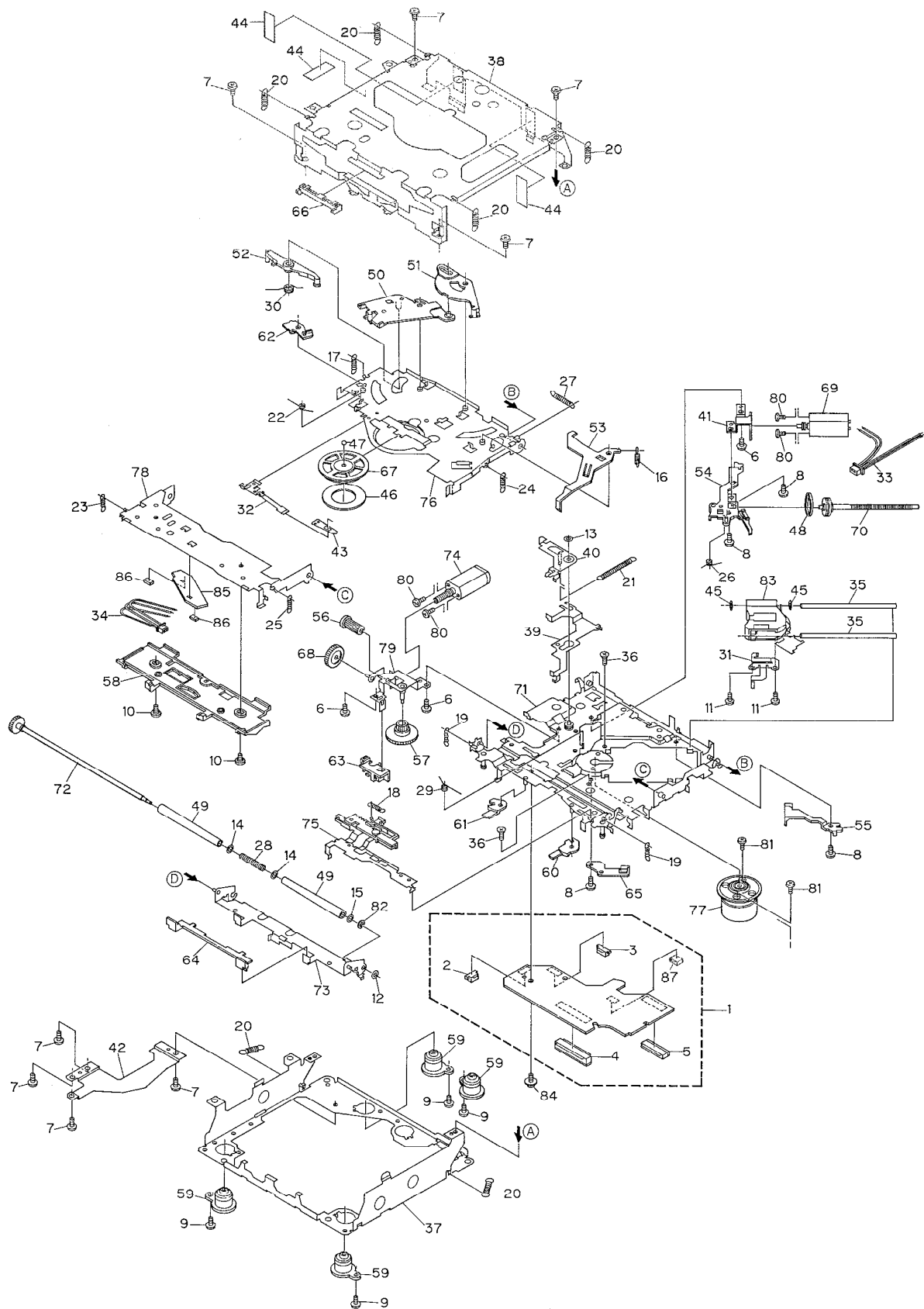
● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Screw	BSZ26P060FMC		46	*****	
	2	Screw	BSZ30P050FMC		47	Connector(CN351)	CKS3602
	3	*****			48	*****	
	4	Cord Assy	CDE5841		49	Mini Pin Jack(CN451)	CKX1046
	5	Cord Assy	CDE5842		50	Holder	CNC7533
	6	*****			51	Holder	CNC8168
	7	Connector	CDE5846		52	Holder	CNC8169
	8	Cord Assy	CDE6337		53	Insulator	CNM5967
*	9	PCB	CNP5508		54	Heat Sink	CNR1535
	10	IC(IC301)	PAL005A		55	FM/AM Tuner Unit	CWE1500
	11	Fuse(10A)	CEK1136		56	Holder	CNC7532
	12	Cap	CNS1472		57	*****	
	13	Resistor	RS1/2PMF102J		58	*****	
	14	Antenna Cable	CDH1256		59	*****	
	15	Case	CNB2426		60	*****	
	16	Earth Plate	CNC7358		61	*****	
	17	Holder	CNC8170		62	Chassis Unit	CXB5728
	18	Holder	CNC8659		63	Panel Assy	CXB3580
	19	Cushion	CNM6065		64	Screw	BMZ20P030FMC
	20	Cushion	CNM6133		65	Screw	BPZ20P060FMC
	21	Spacer	CNM6482		66	Screw(M2x7)	CBA1060
	22	Insulator	CNM6897		67	Screw(M2x3)	CBA1061
	23	*****			68	Screw(M2x3)	CBA1082
	24	Panel	CNS5256		69	Screw(M2x3)	CBA1154
	25	*****			70	Screw(M2x1.5)	CBA1430
	26	Cap	CNV2680		71	Screw(M1.4x4)	CBA1454
	27	Holder	CNV6396		72	Spring	CBH2130
	28	Screw	BSZ30P050FMC		73	*****	
	29	Screw	BSZ30P200FMC		74	Cord	CDE5960
	30	Screw(M2x2.5)	CBA1447		75	*****	
	31	Insulator	CNM6135		76	Connector	CKS3997
	32	Cover	CNM6489		77	Roller	CLA3583
	33	Tuner Amp Unit	CWM6220		78	Frame	CNC8201
	34	Screw	BMZ26P160FMC		79	Spacer	CNM6155
	35	Clamper	CEF1004		80	Spacer	CNM6156
	36	*****			81	Spacer	CNM6419
	37	Clamper	CEF1009		82	*****	
	38	Plug(CN901)	CKM1278		83	PCB	CNP5355
	39	*****			84	PCB	CNP5321
	40	*****			85	Panel	CNS5247
	41	*****		*	86	Lighting Conductor	CNV5391
	42	Plug(CN851)	CKS-786		87	Lighting Conductor	CNV5605
*	43	Plug(CN101)	CKS1058		88	Cover	CNV5610
	44	Connector(CN801)	CKS1532		89	Guide	CNV5672
	45	Connector(CN991)	CKS1960		90	Guide	CNV5696

DEH-P9100R,P8100R

Mark No.	Description	Part No.
91	Rack	CNV5697
92	Gear	CNV5698
93	Gear	CNV5761
94	Torque Limiter Unit	CNV5762
95	Holder	CNV5763
96	Switch(S951)	CSN1012
97	Switch(S952)	CSN1022
98	Arm Unit	CXB3574
99	Frame Unit	CXB3575
100	Holder Unit	CXB3576
101	Bracket Unit	CXB3577
102	Arm Unit	CXB3866
103	Motor(M951)	CXM1085
104	Washer	2-1816-0035-D2-00
105	Washer	2-1821-0045-D2-00
106		
107		
108		
109		
110		
111		
112	Remote Control Assy	CZX3231
113	Cover	CZN6410
114	Detach Grille Assy	CXB5458
115	Screw	BPZ20P080FZK
116	Button(DISPLAY)	CAC6511
117	Button(OPEN)	CAC6512
118	Button(RESET)	CAC6513
119	Button(BAND)	CAC6515
120	Knob(EQ)	CAC6732
121	Button(1-6)	CAC6721
122	Button(SOURCE)	CAC6719
123	Spring	CBH2415
124	Cushion	CNM6767
125	Lighting Conductor	CNV6214
126	Lighting Conductor	CNV6215
127	Keyboard Unit	CWM7063
128	Connector(CN1902)	CKS3995
129	Connector(CN1901)	CKS3996
130	Insulator	CNM6775
131	OEL Module	MXK8002
132	Grille Unit	CXB5332
133	Cover Unit	CXB5339
134	CD Mechanism Module(S8)	CXK5251
135	Terminal Cover	CKX-003

2.3 CD MECHANISM MODULE



(1) CD MECHANISM MODULE SECTION PARTS LIST

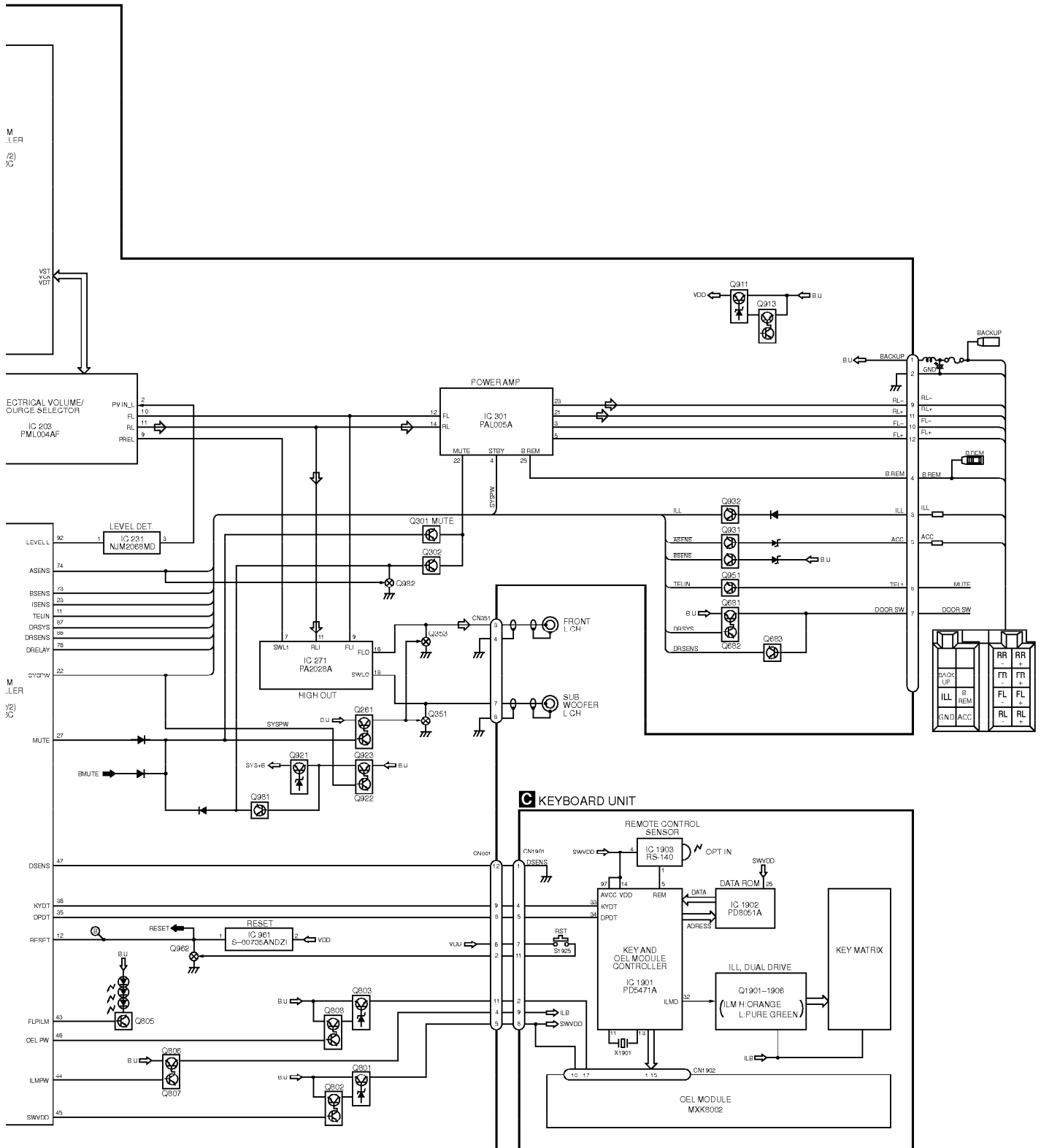
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	See Contrast table(2)	46	Sheet	CNM6215
2	Connector(CN802)	CKS2192	47	Ball	CNR1189
3	Connector(CN801)	CKS2193	48	Belt	CNT1086
4	Connector(CN701)	CKS2771	49	Roller	CNV4509
5	Connector(CN101)	CKS3486	50	Arm	CNV5246
6	Screw	BMZ20P030FZK	51	Arm	CNV5247
7	Screw	BSZ20P040FZK	52	Arm	CNV5248
8	Screw(M2×3)	CBA1077	53	Arm	CNV5249
9	Screw(M2×6)	CBA1489	54	Guide	CNV5254
10	Screw	CBA1243	55	Guide	CNV5255
11	Screw(M2×4)	CBA1362	56	Gear	CNV5257
12	Washer	CBF1037	57	Gear	CNV5256
13	Washer	CBF1038	58	Guide	CNV6176
14	Washer	CBF1060	59	Damper	CNV5266
* 15	Washer	CBF1075	60	Arm	CNV5359
16	Spring	CBH2079	61	Arm	CNV5360
17	Spring	CBH2117	62	Arm	CNV6211
18	Spring	CBH2278	63	Guide	CNV5509
19	Spring	CBH2110	64	Guide	CNV5510
20	Spring	CBH2282	65	Holder	CNV5578
21	Spring	CBH2114	66	Guide	CNV5751
22	Spring	CBH2115	67	Clamper	CNV5758
23	Spring	CBH2080	68	Gear	CNV5813
24	Spring	CBH2118	69	Motor Unit(M1)	CXB2190
25	Spring	CBH2161	70	Screw Unit	CXB2191
26	Spring	CBH2163	71	Chassis Unit	CXB2192
27	Spring	CBH2189	72	Gear Unit	CXB2193
28	Spring	CBH2249	73	Arm Unit	CXB2194
29	Spring	CBH2260	74	Motor Unit(M2)	CXB2195
30	Spring	CBH2262	75	Lever Unit	CXB2553
31	Spring	CBL1367	76	Arm Unit	CXB2554
32	Spring	CBL1369	77	Motor Unit(M3)	CXB2562
33	Connector	CDE5531	78	Arm Unit	CXB2795
34	Connector	CDE5532	79	Bracket Unit	CXB4071
35	Shaft	CLA3304	80	Screw	JFZ20P025FMC
36	Screw(M2.6×6)	CBA1458	81	Screw	JGZ17P025FZK
37	Frame	CNC7544	82	Washer	YE15FUC
38	Frame	CNC7545	83	Pickup Unit(Service)(P8)	CXX1285
39	Lever	CNC7546	84	Screw	IMS26P030FMC
40	Arm	CNC7739	* 85	PCB	CNX2982
41	Bracket	CNC7798	86	Photo-transistor(Q1, 2)	CPT230SX-TU
42	Plate	CNC8090	87	Connector(CN702)	See Contrast table(2)
43	Spacer	CNM3315			
44	Sheet	CNM6170			
45	Cushion	CNM6204			

(2) CONTRAST TABLE

DEH-P9100R/EW and DEH-P8100R/EW are constructed same except for the following:

Mark No.	Description	Part No.	
		DEH-P9100/EW	DEH-P8100R/EW
2	Control Unit	CWX2359	CWX2358
87	Connector(CN702)	CKS2191	Not used





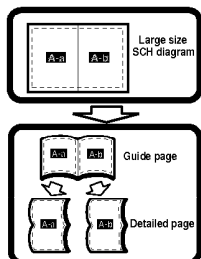
3.3 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(DEH-P9100R/EW)

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

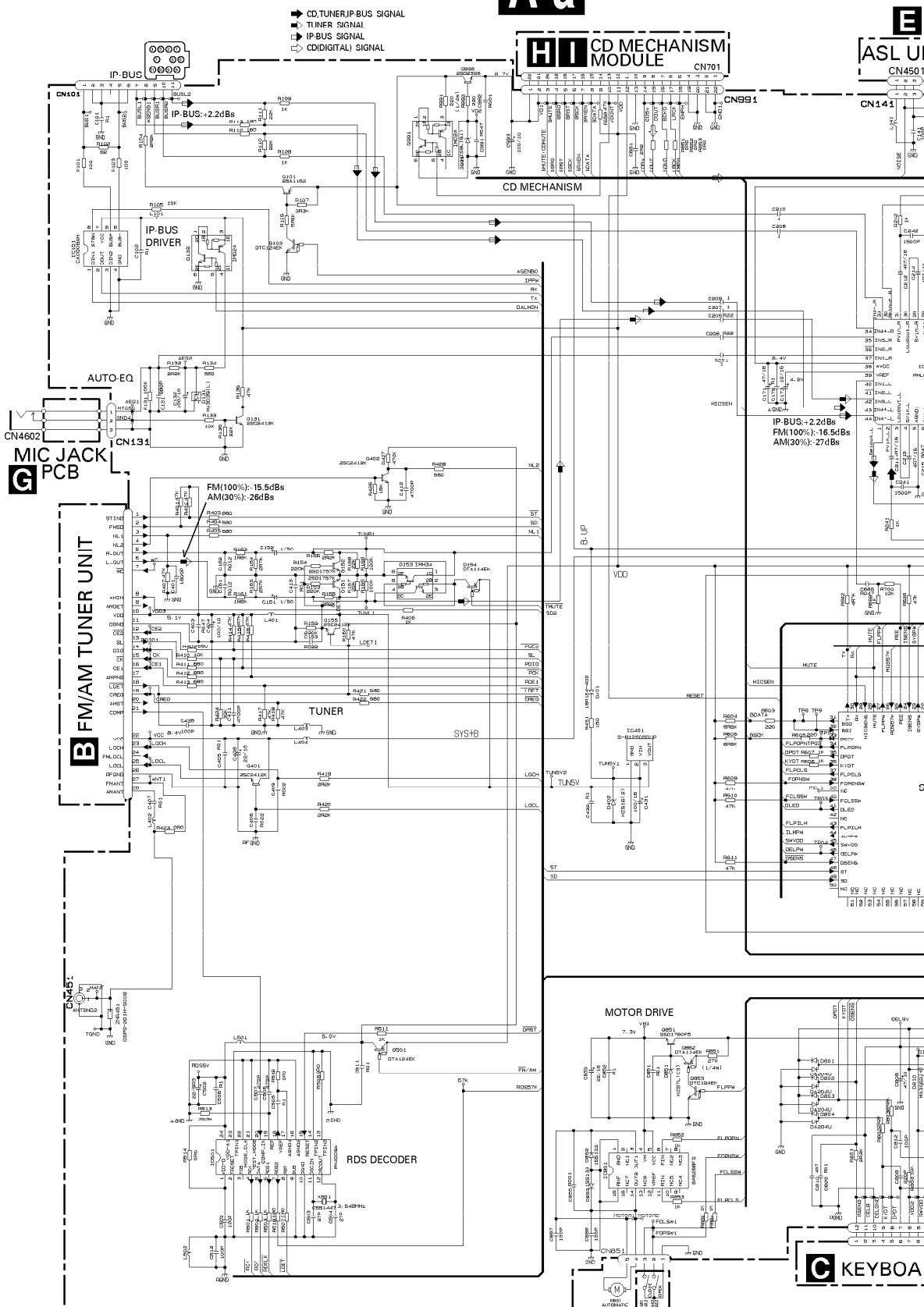
A-a

E

A



B

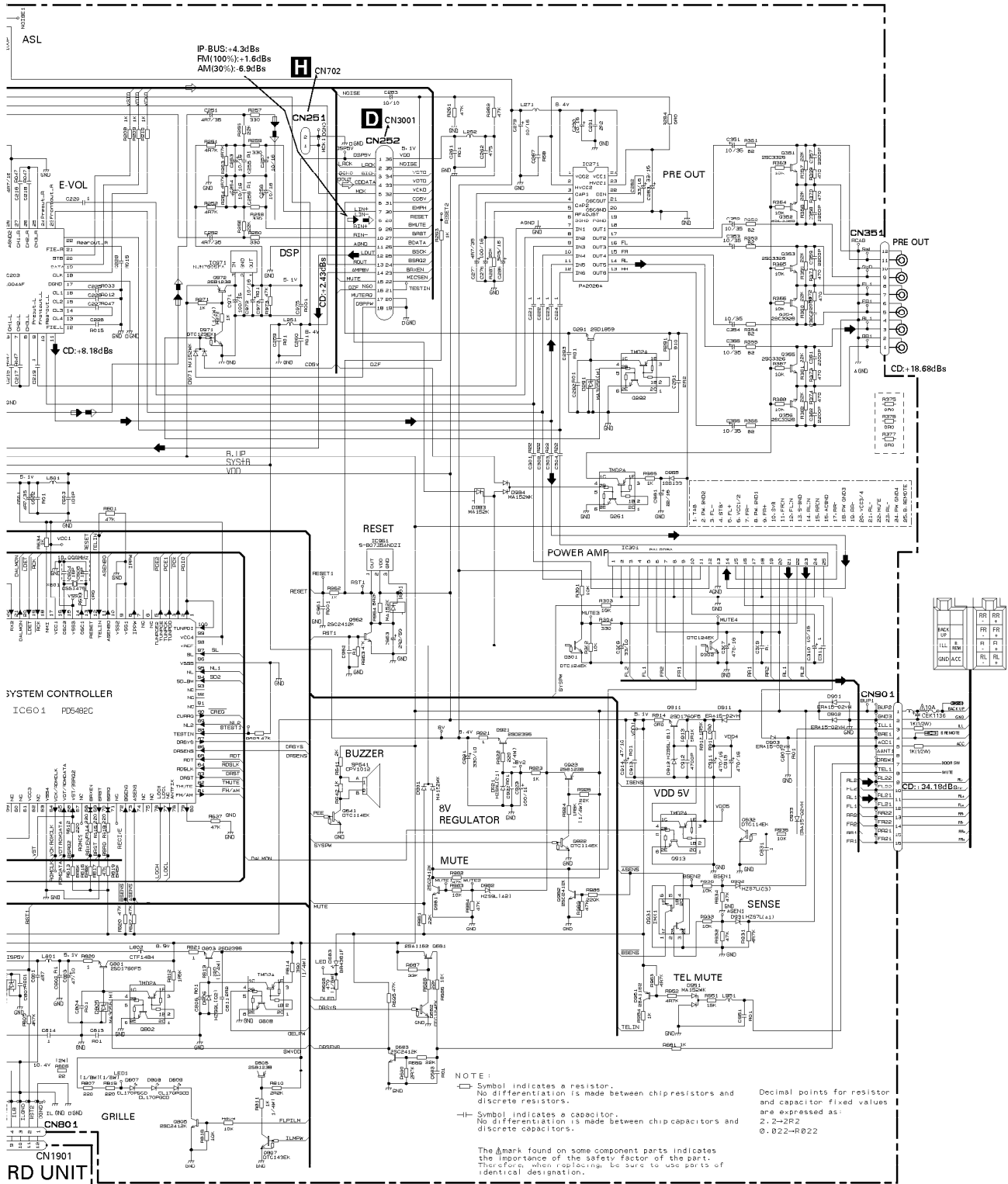


C

D

A-b

A TUNER AMP UNIT



A

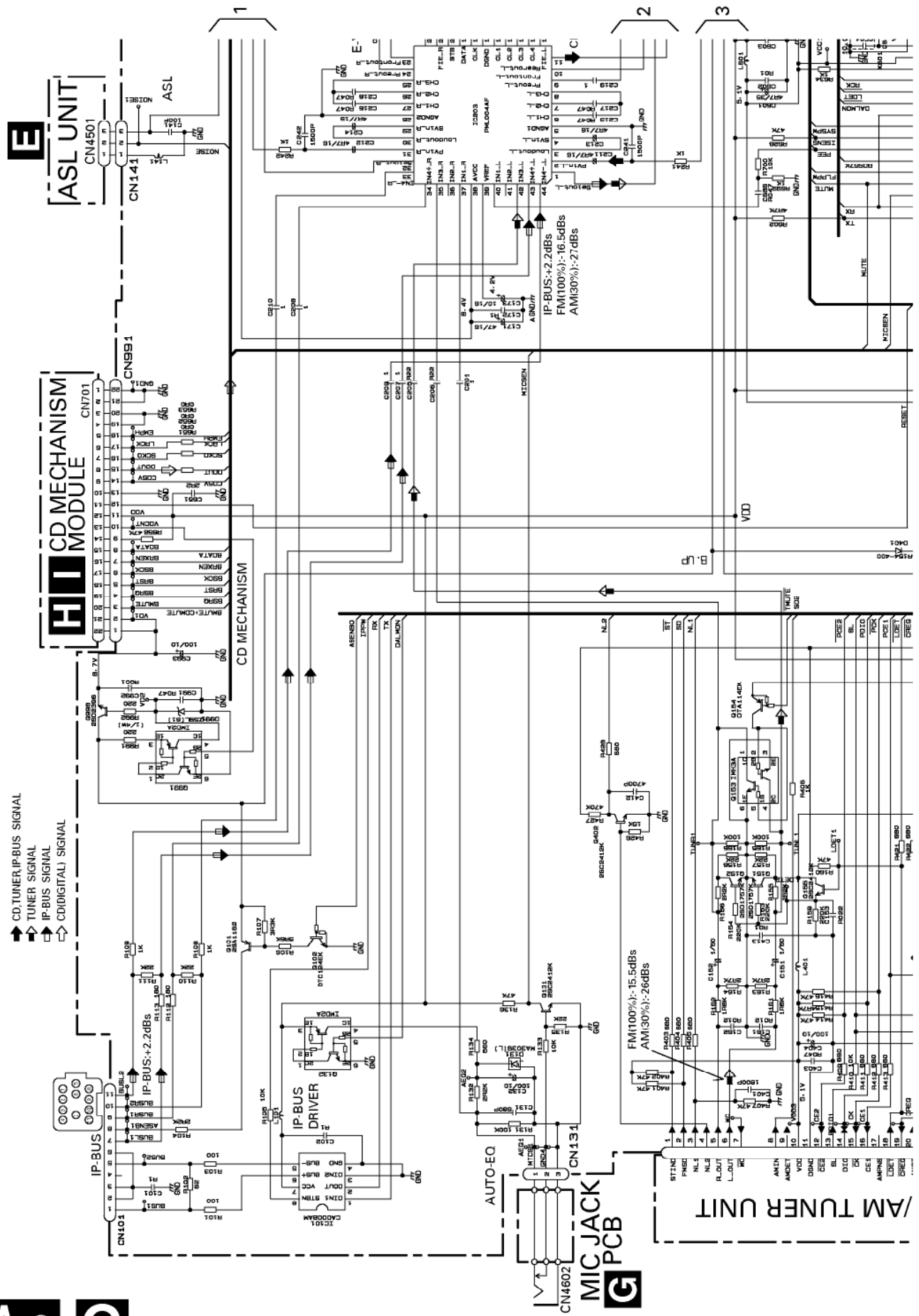
A

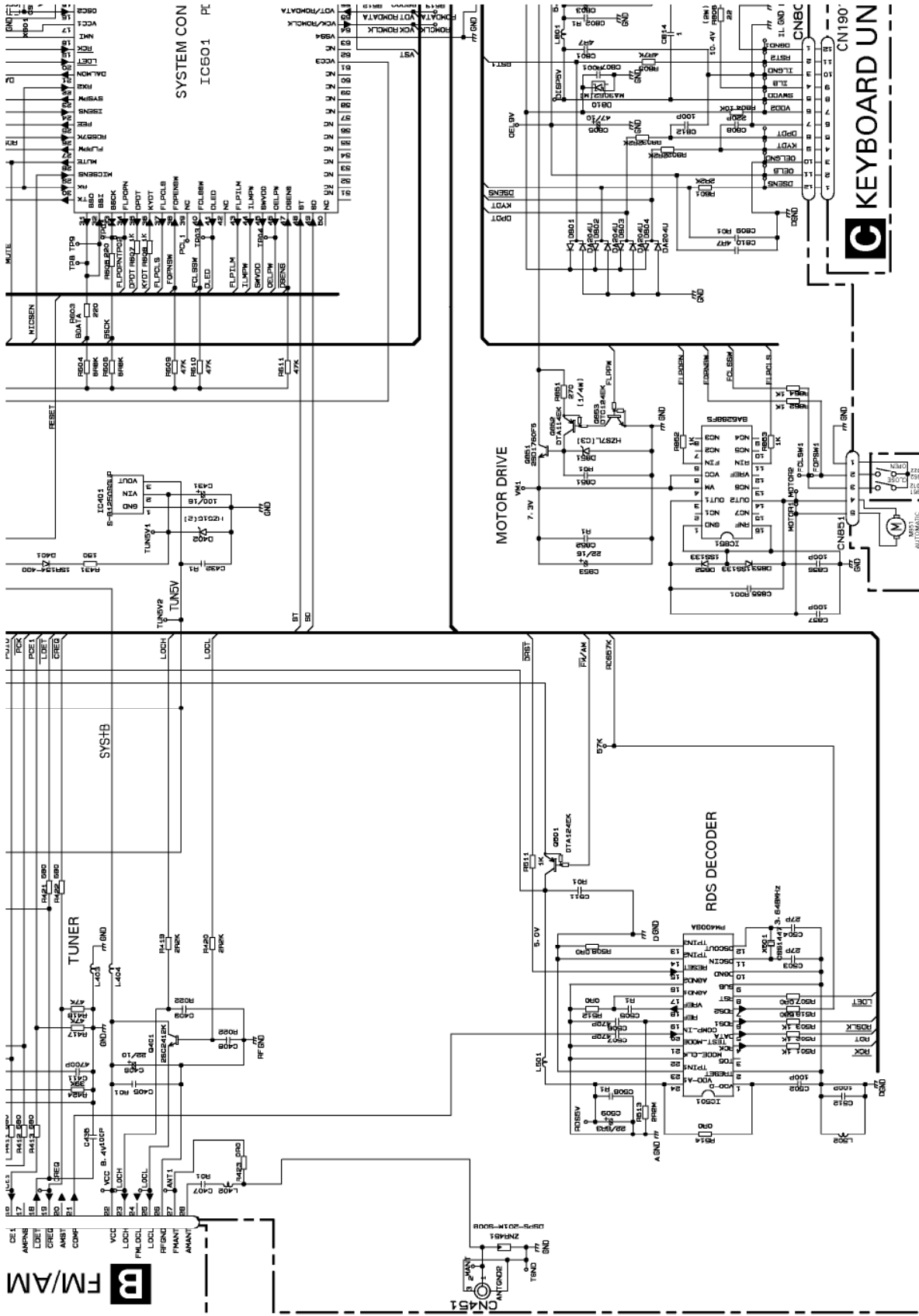
B

C

D

A-a A-b





F SWITCH PCB

C KEYBOARD UN

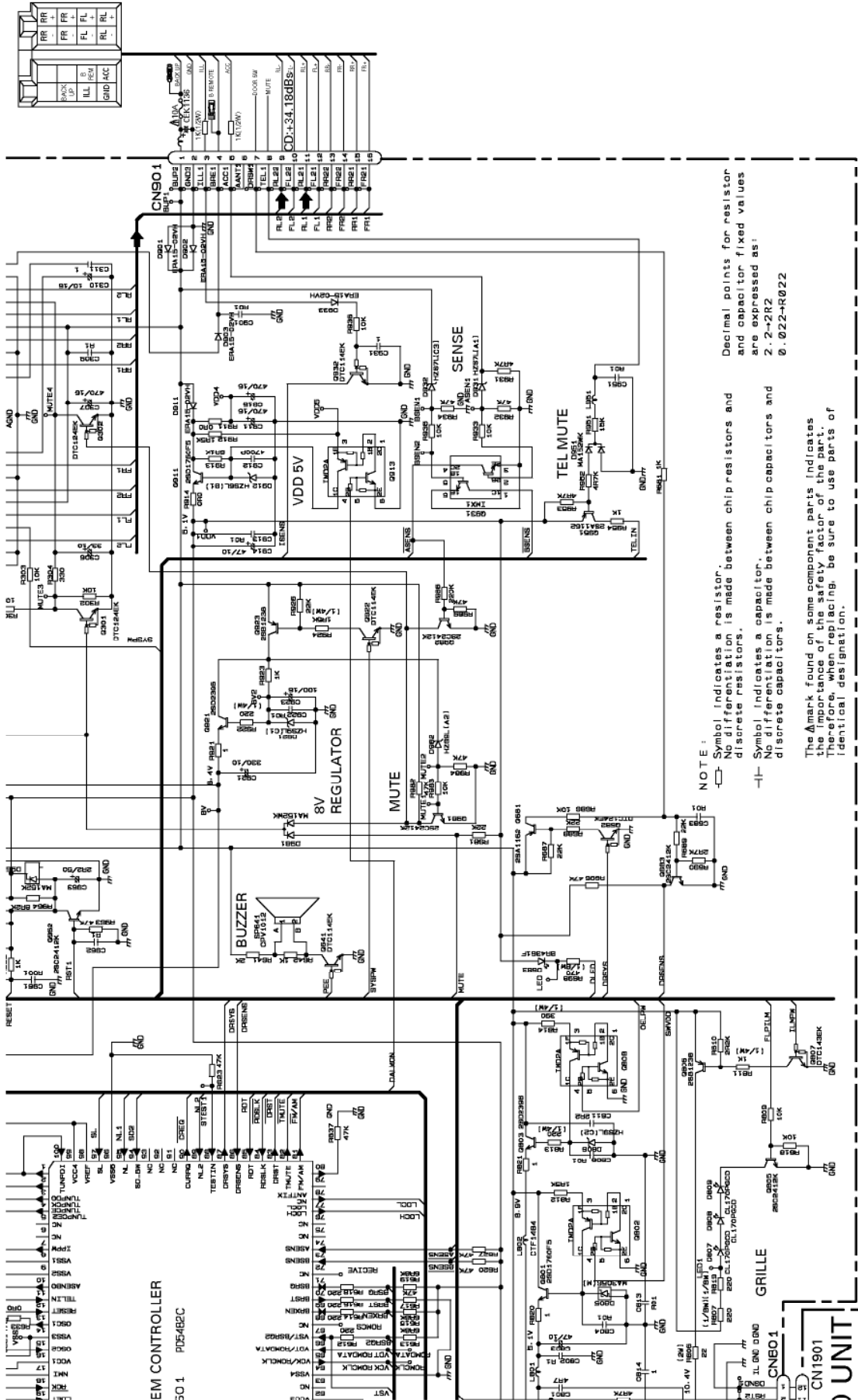
A-a A-b

A-a

F

75

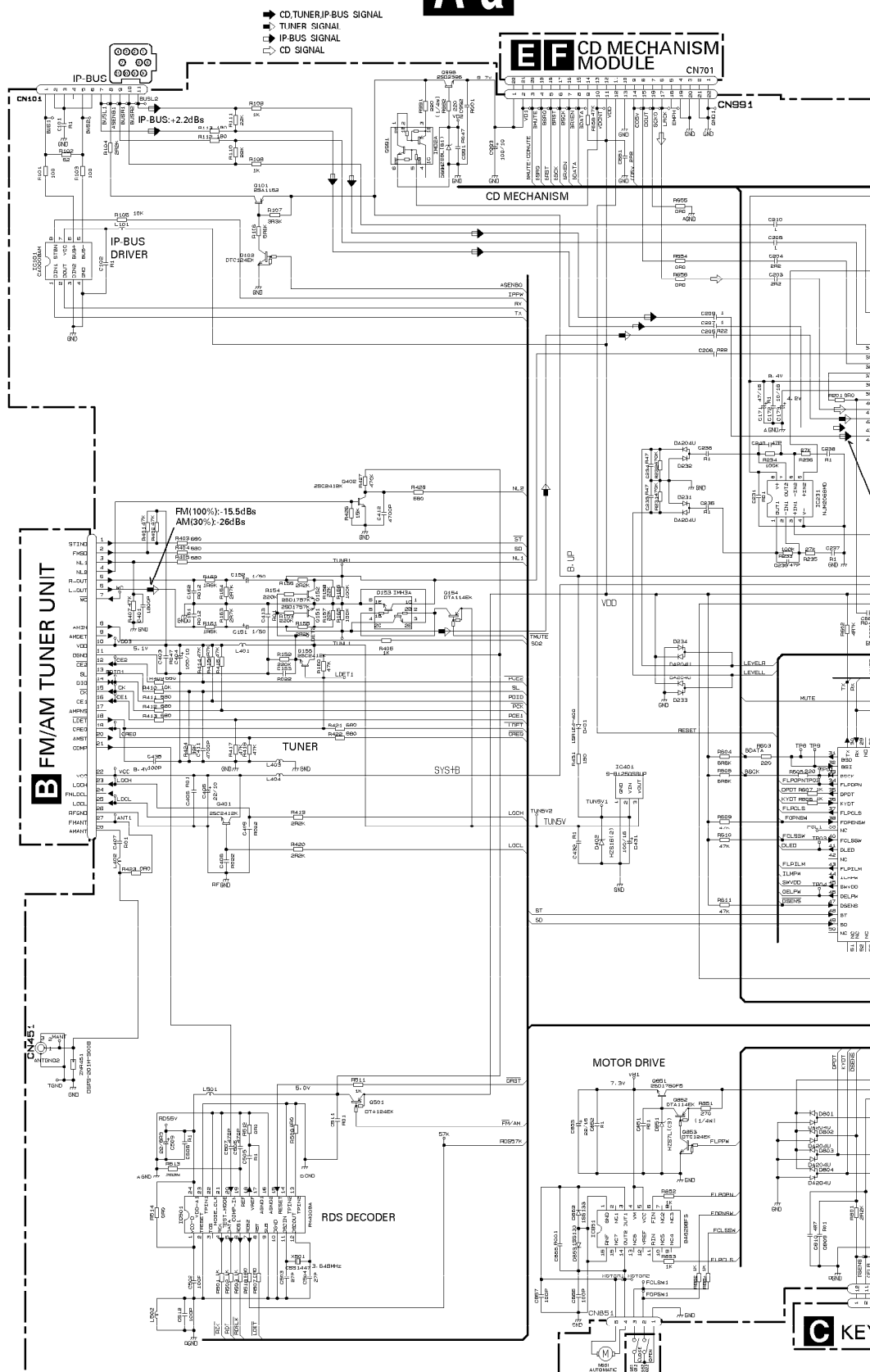
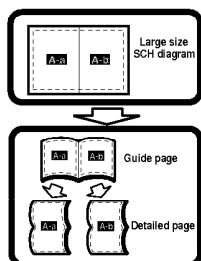




3.4 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(DEH-P8100R/EW)

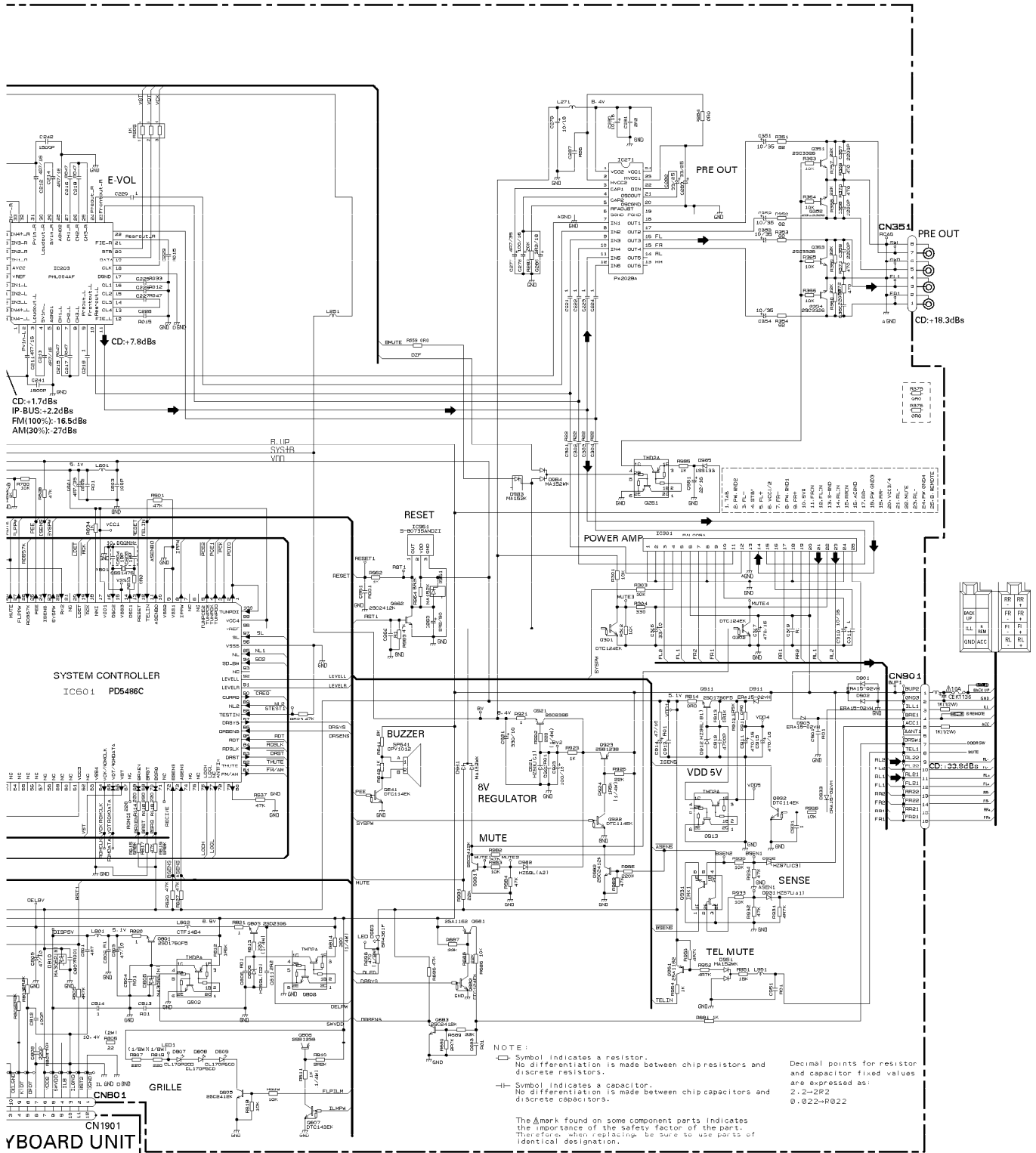
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

A-a



A-b

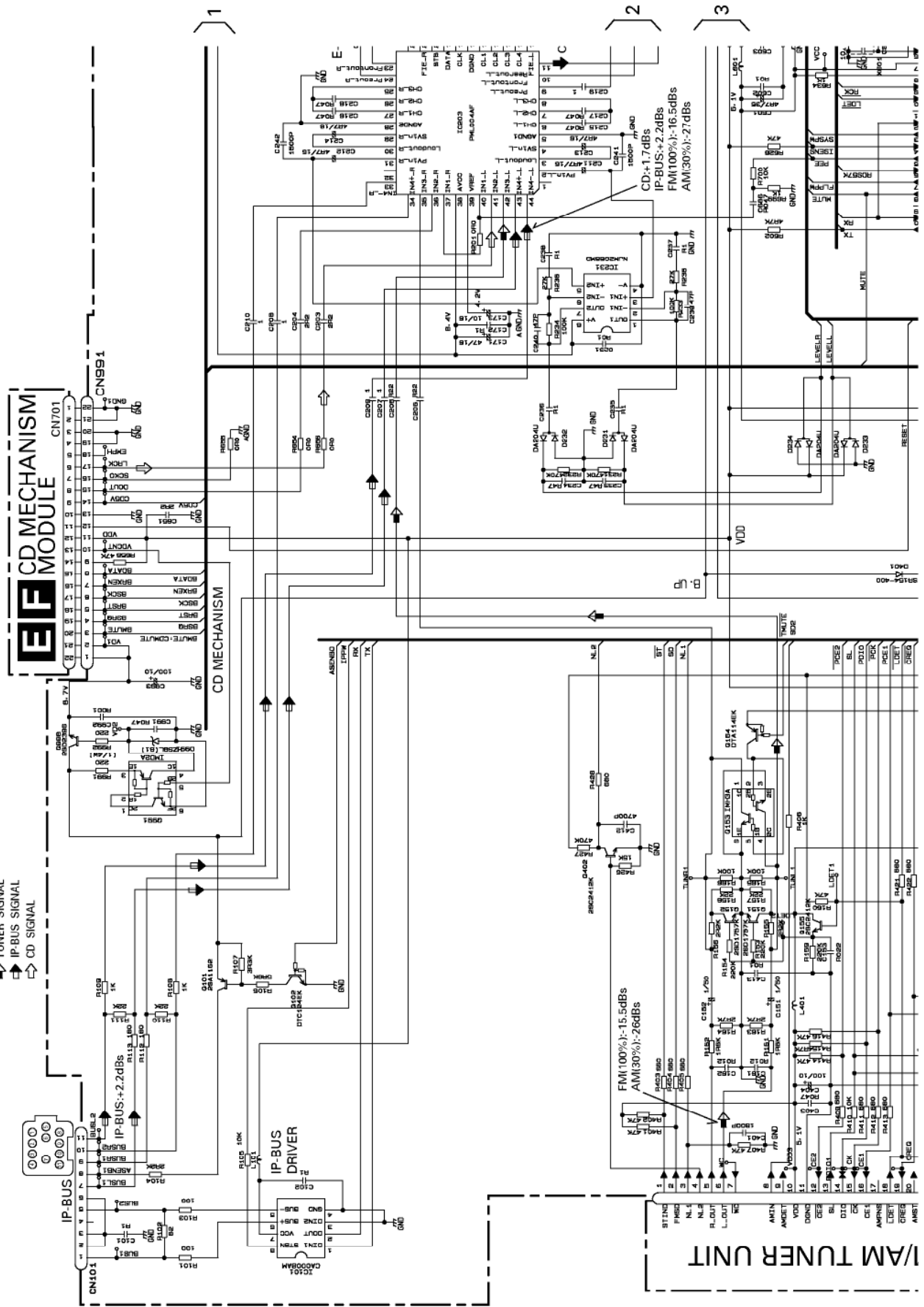
A TUNER AMP UNIT



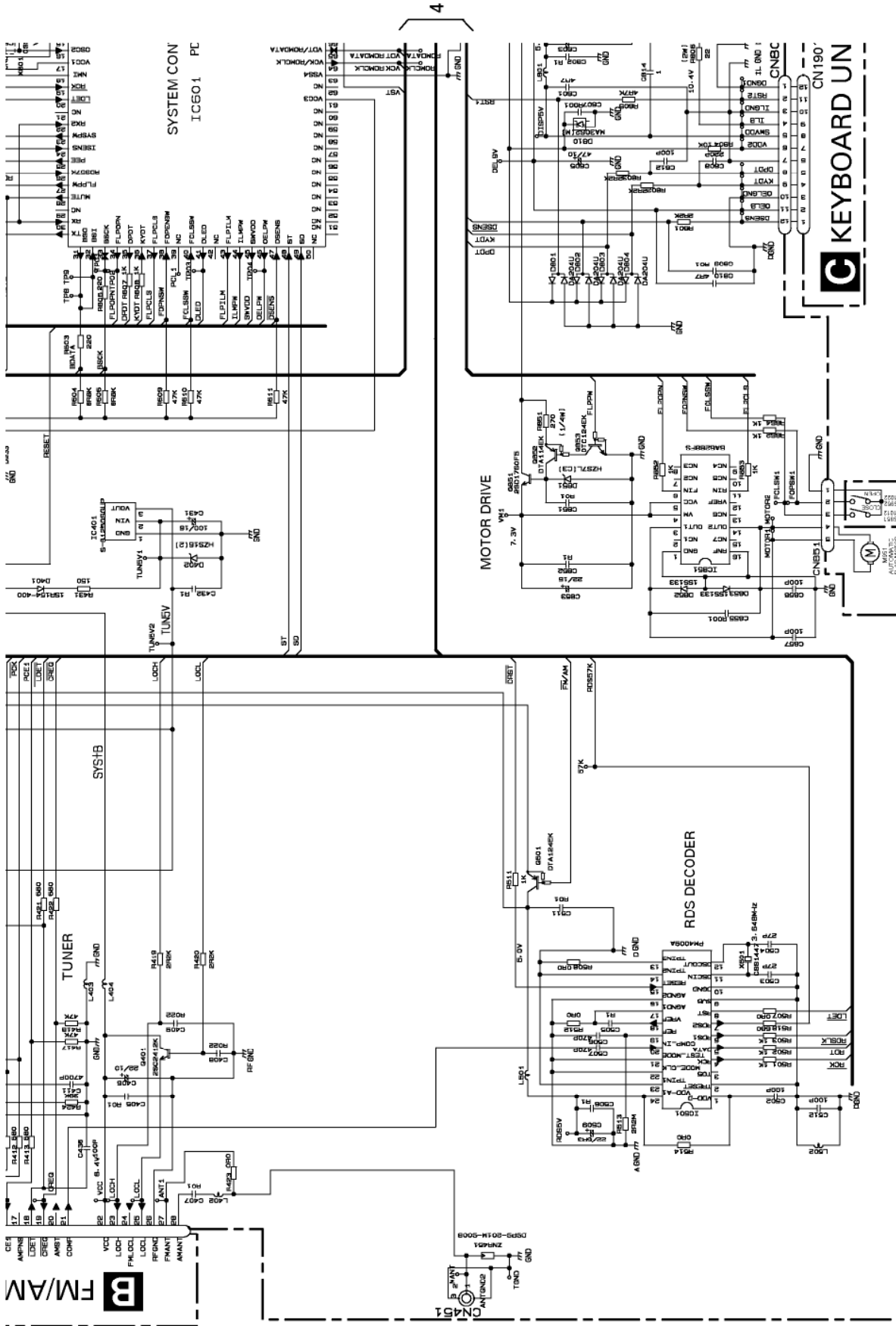
A

A-a A-b

- CD, TUNER, IP-BUS SIGNAL
- TUNER SIGNAL
- IP-BUS SIGNAL
- CD SIGNAL



A-a



D SWITCH PCB

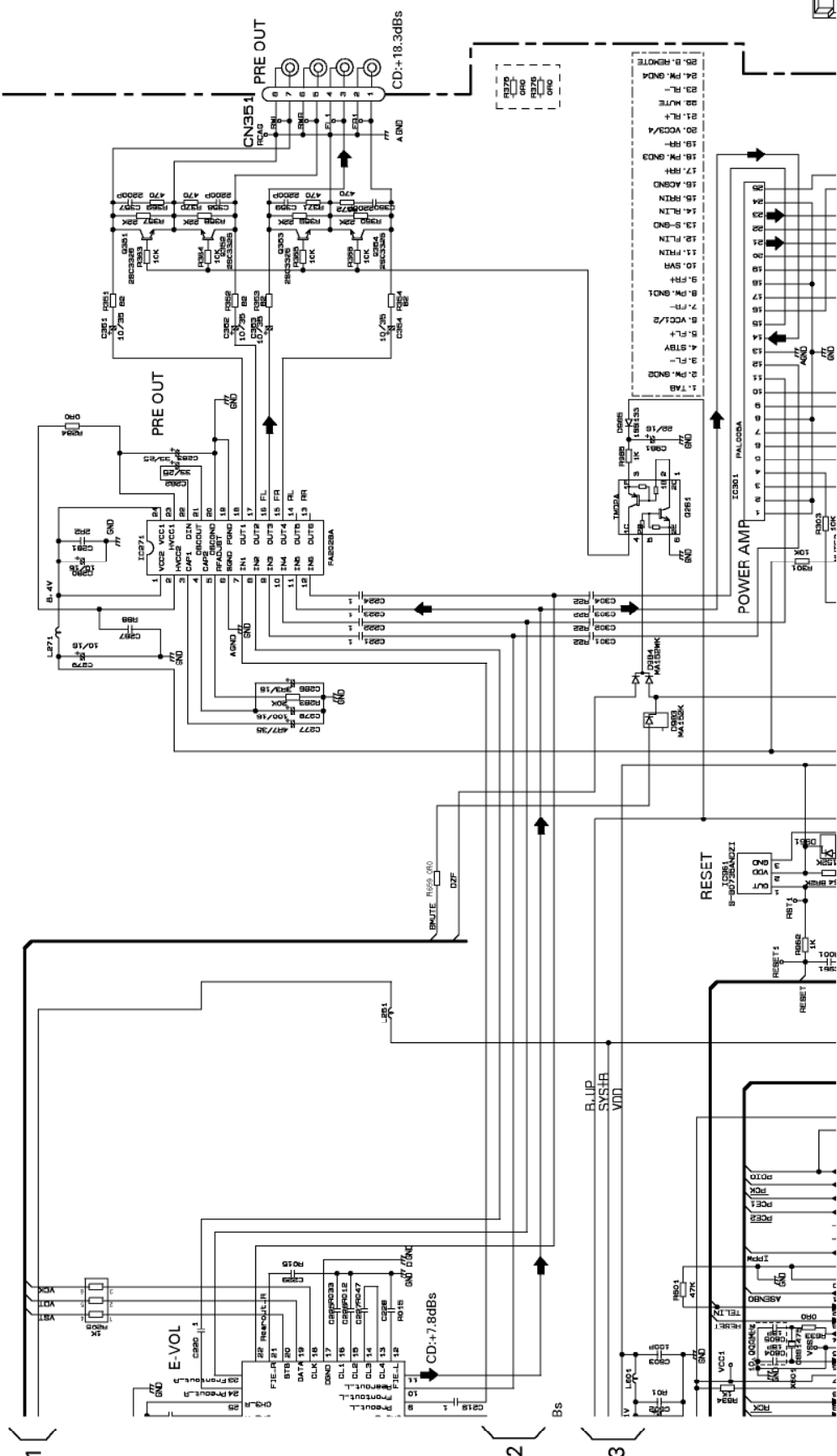
C KEYBOARD UN

A-a A-b

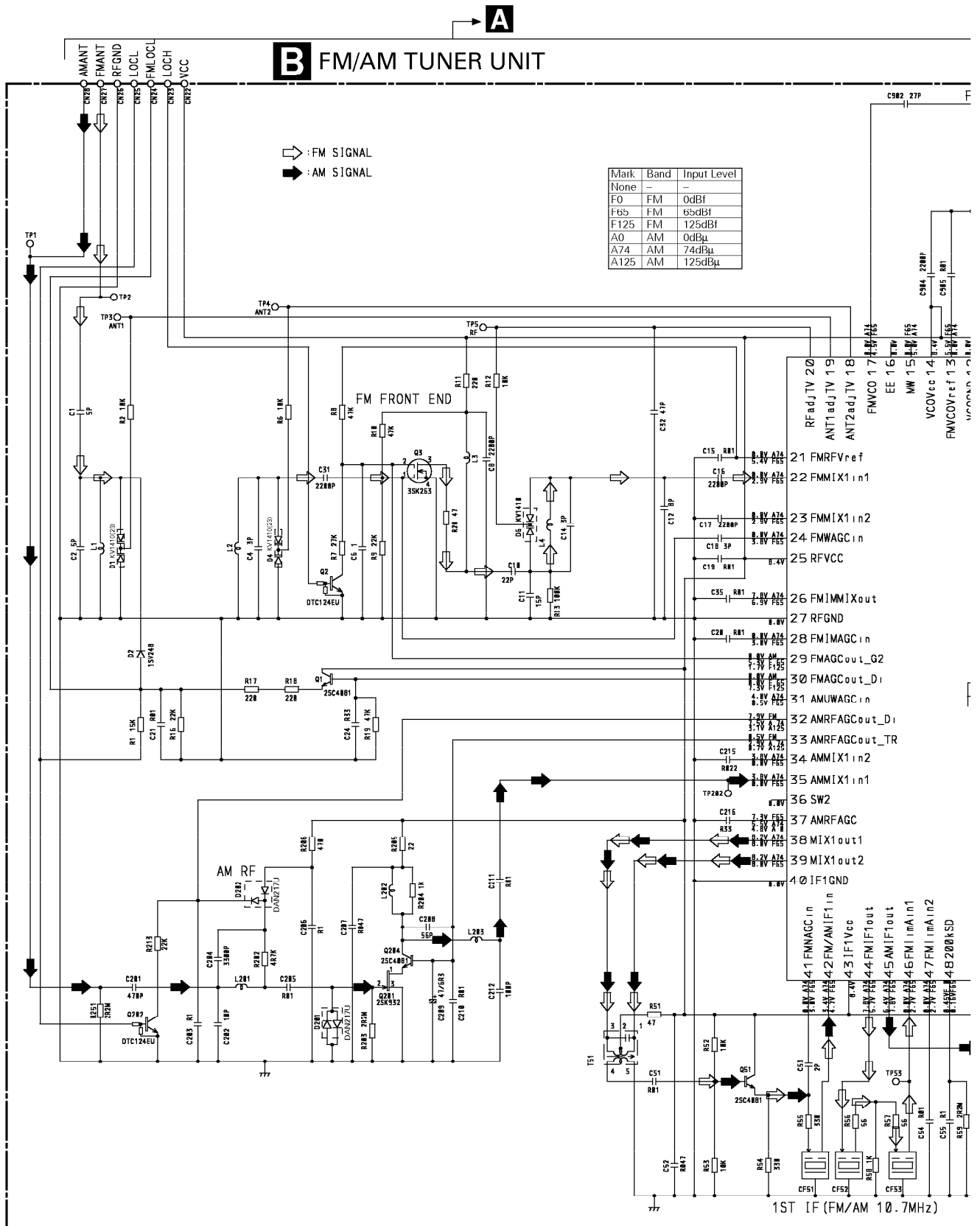
A-a

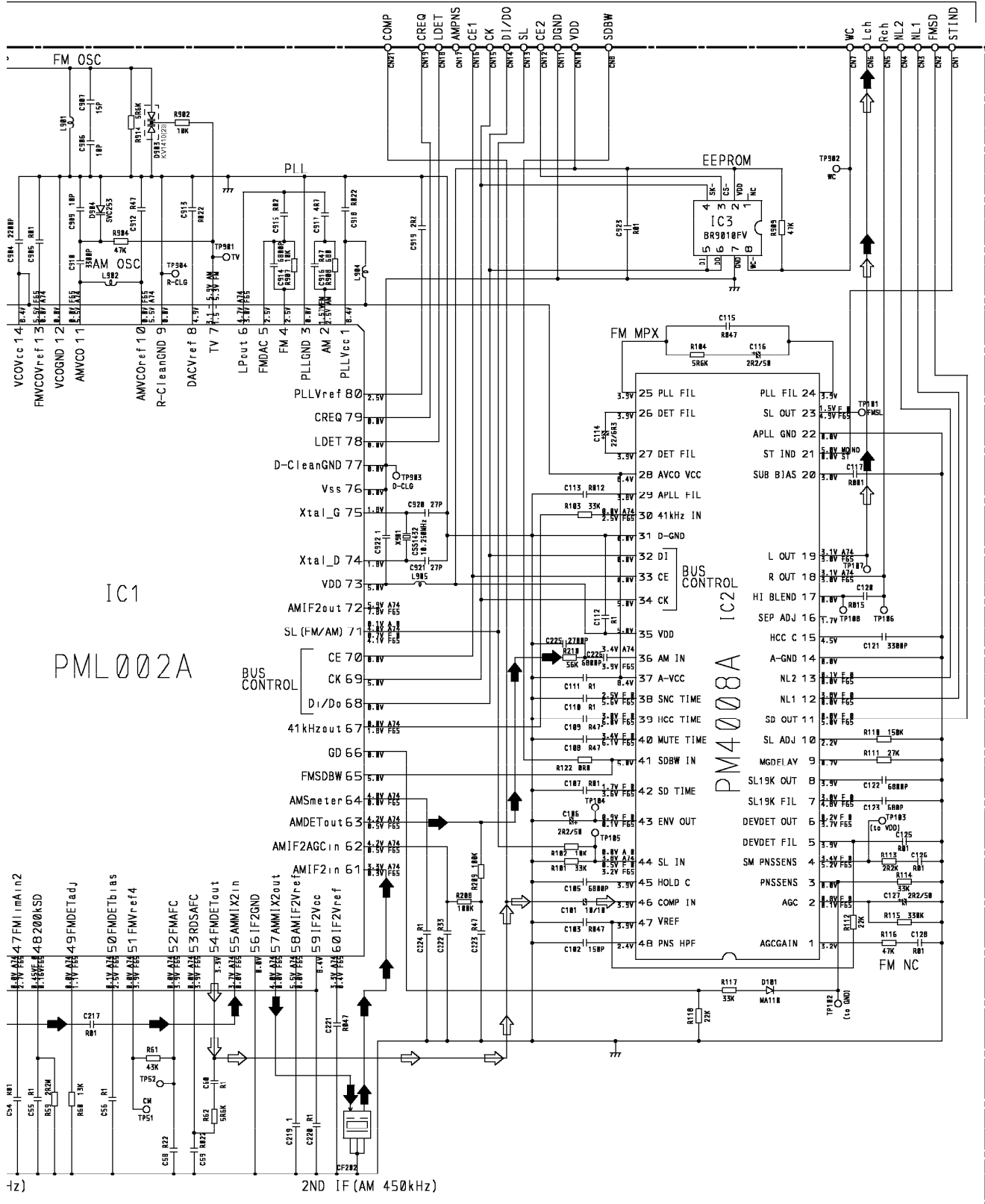
D

1



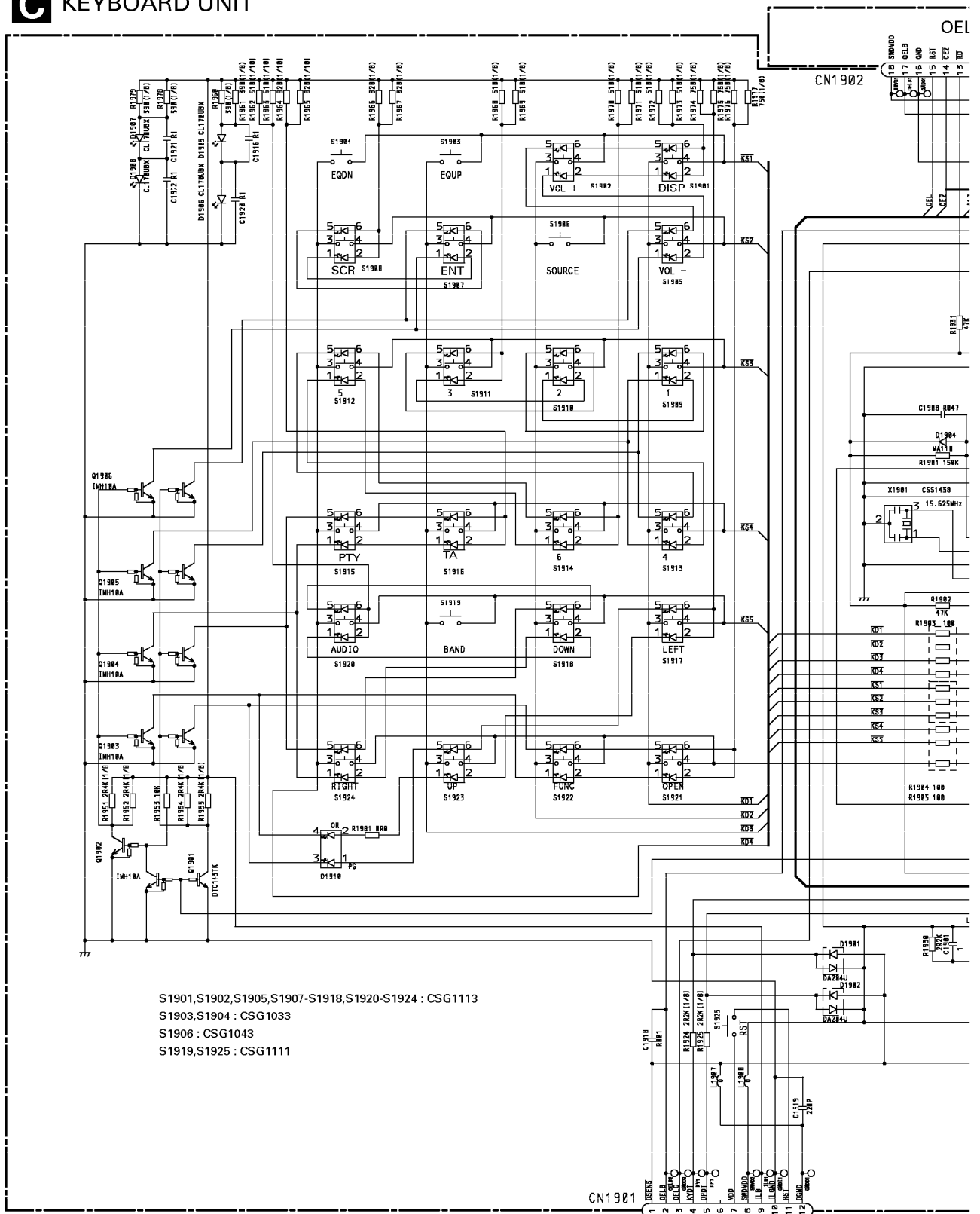
3.5 FM/AM TUNER UNIT



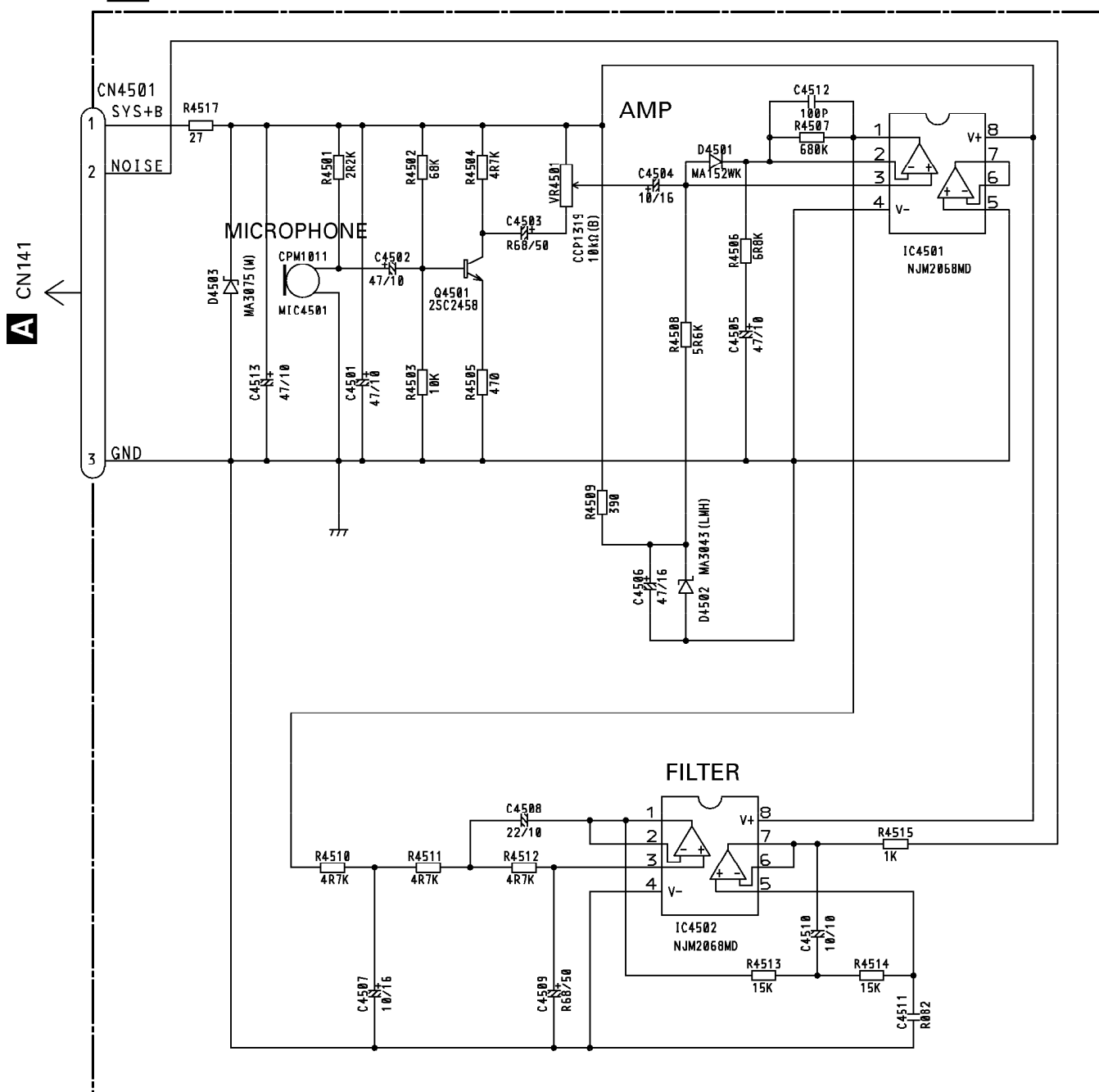


3.6 KEYBOARD UNIT

C KEYBOARD UNIT

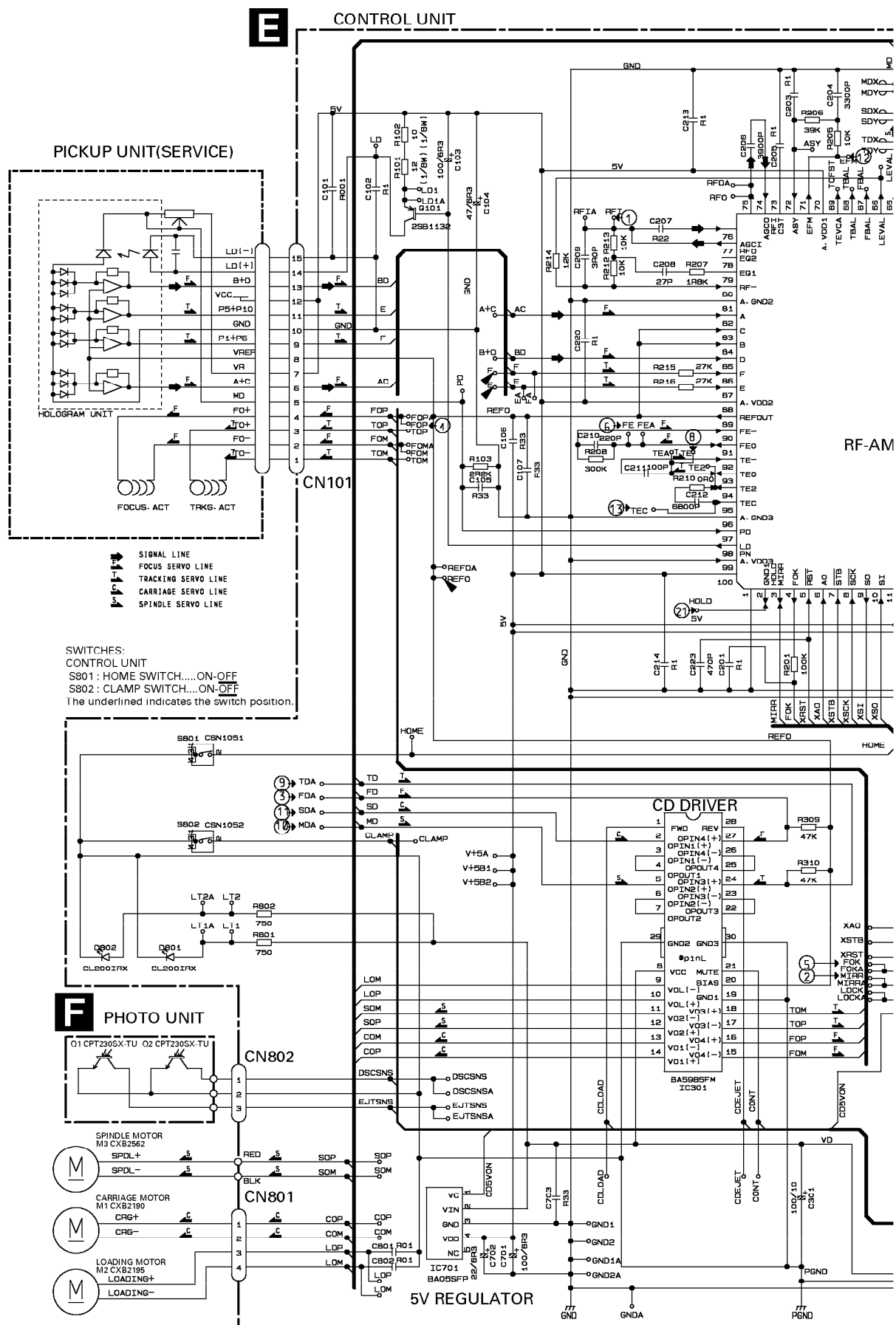


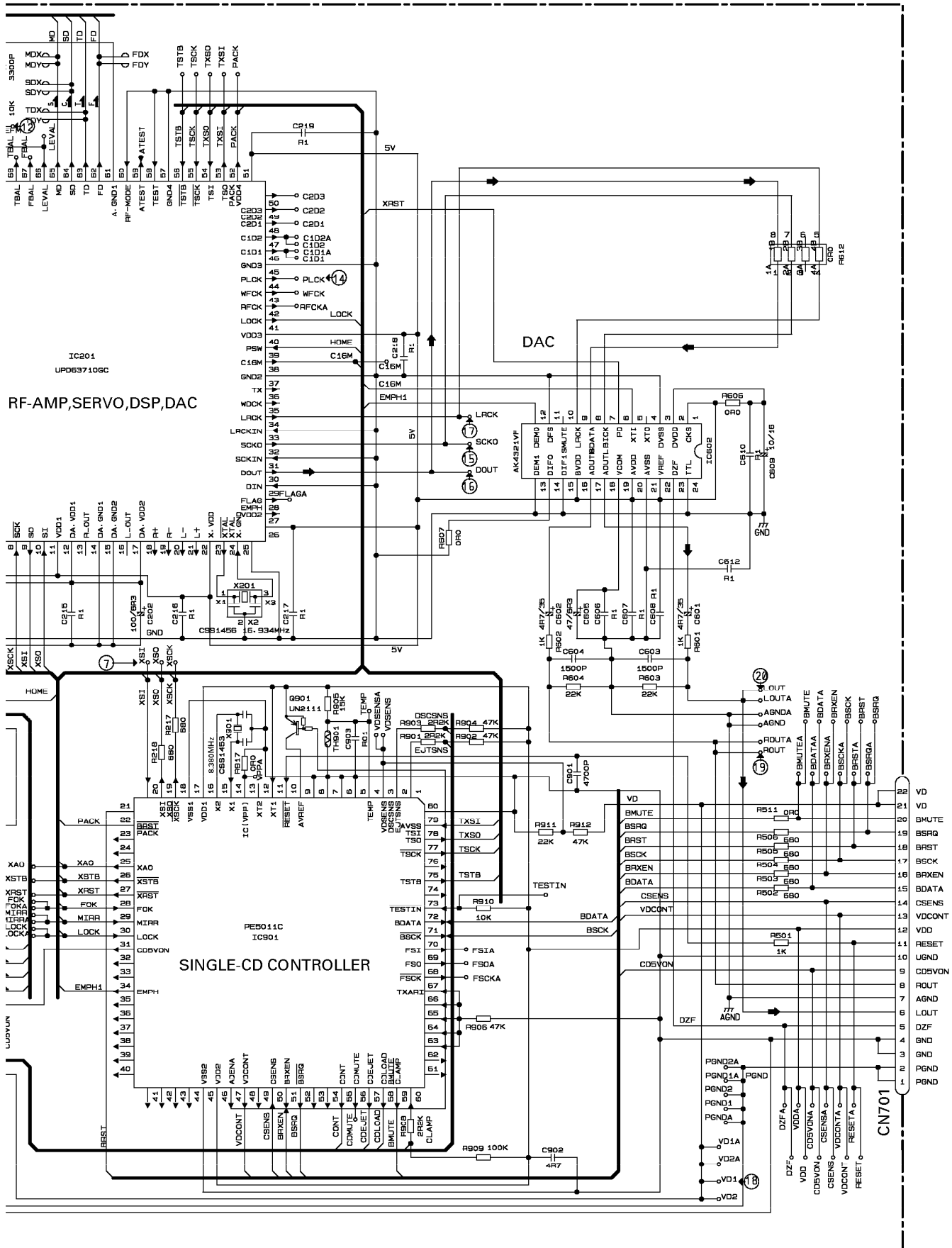
3.8 ASL UNIT(DEH-9100R/EW)

E ASL UNIT



3.10 CD MECHANISM MODULE(DEH-P8100R/EW)



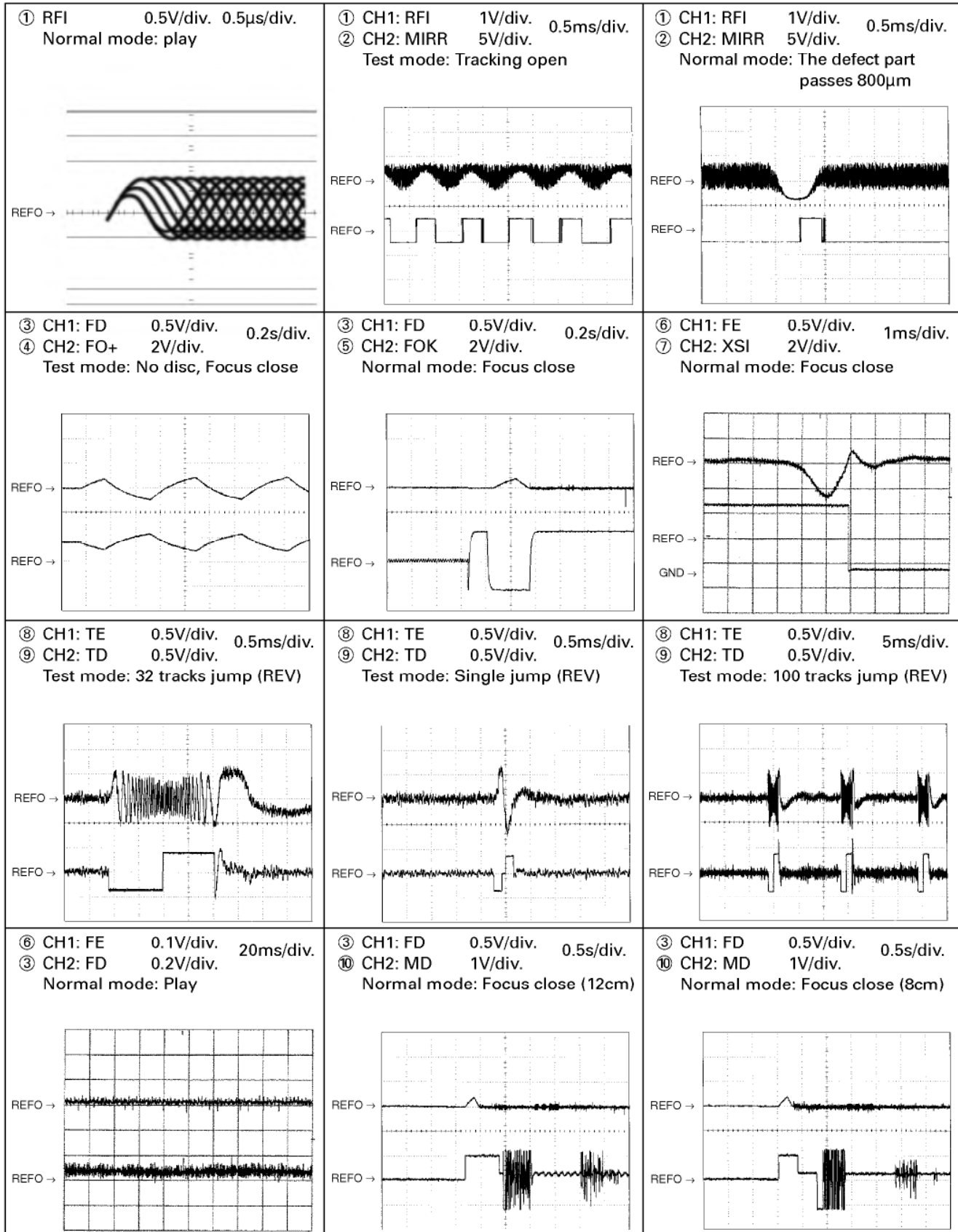


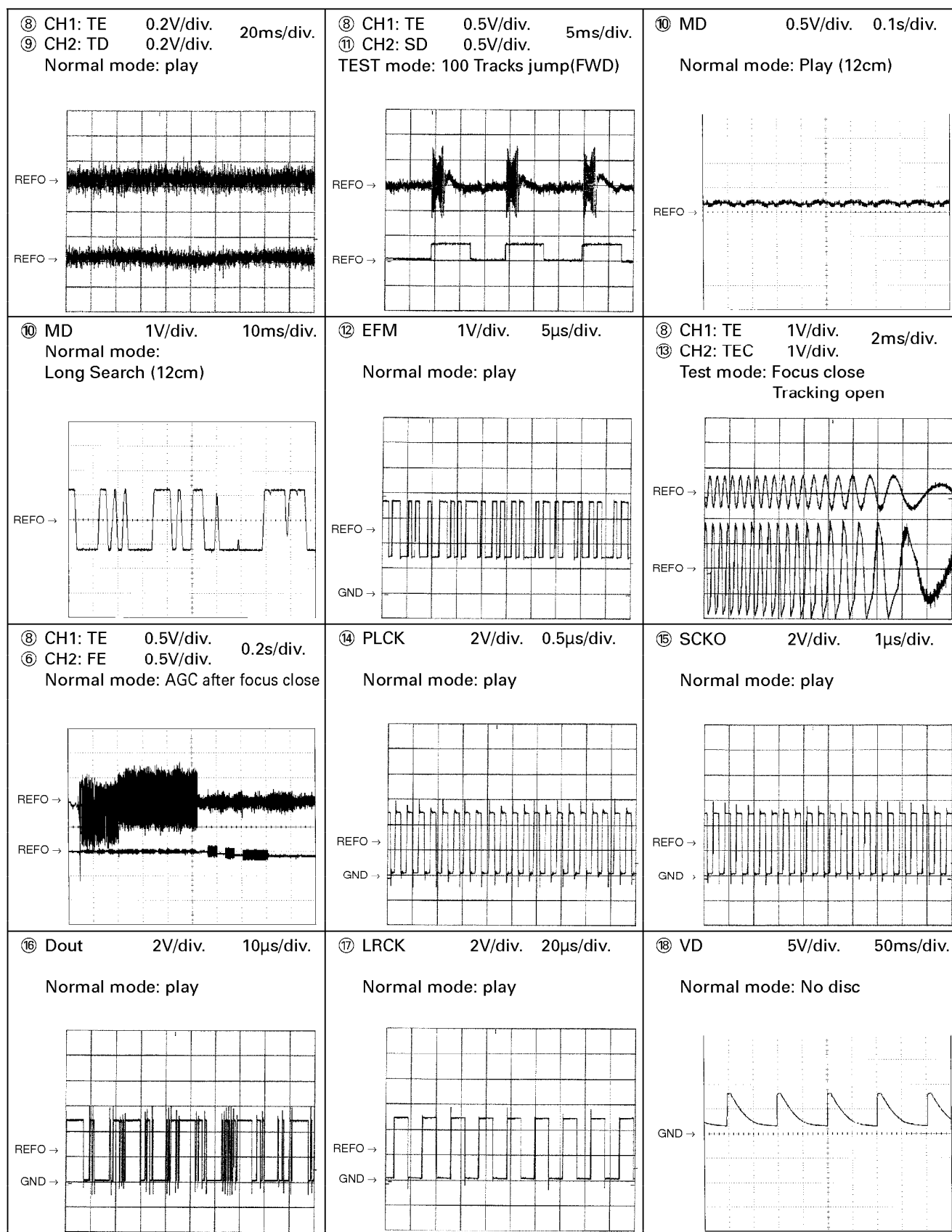
A CN991



Note:1. The encircled numbers denote measuring pointes in the circuit diagram.
2. Reference voltage
REFO:2.5V

● Waveforms





⑮ CH1: R OUT 1V/div. 0.2ms/div. ⑳ CH2: L OUT 1V/div. Normal mode: Play (1kHz 0dB) (DEH-P8100R/EW)	⑥ CH1: FE 0.2V/div. 1ms/div. ③ CH2: FD 0.5V/div. Normal mode: During AGC	⑧ CH1: TE 0.2V/div. 1ms/div. ⑨ CH2: TD 0.5V/div. Normal mode: During AGC
① CH1: RFI 1V/div. 0.5ms/div. ② CH2: HOLD 5V/div. Normal mode: The defect part passes 800μm(B.D)	③ CH1: FD 1V/div. 0.5ms/div. ② CH2: HOLD 5V/div. Normal mode: The defect part passes 800μm(B.D)	⑨ CH1: TD 0.1V/div. 0.5ms/div. ② CH2: HOLD 5V/div. Normal mode: The defect part passes 800μm(B.D)

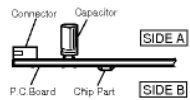
4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

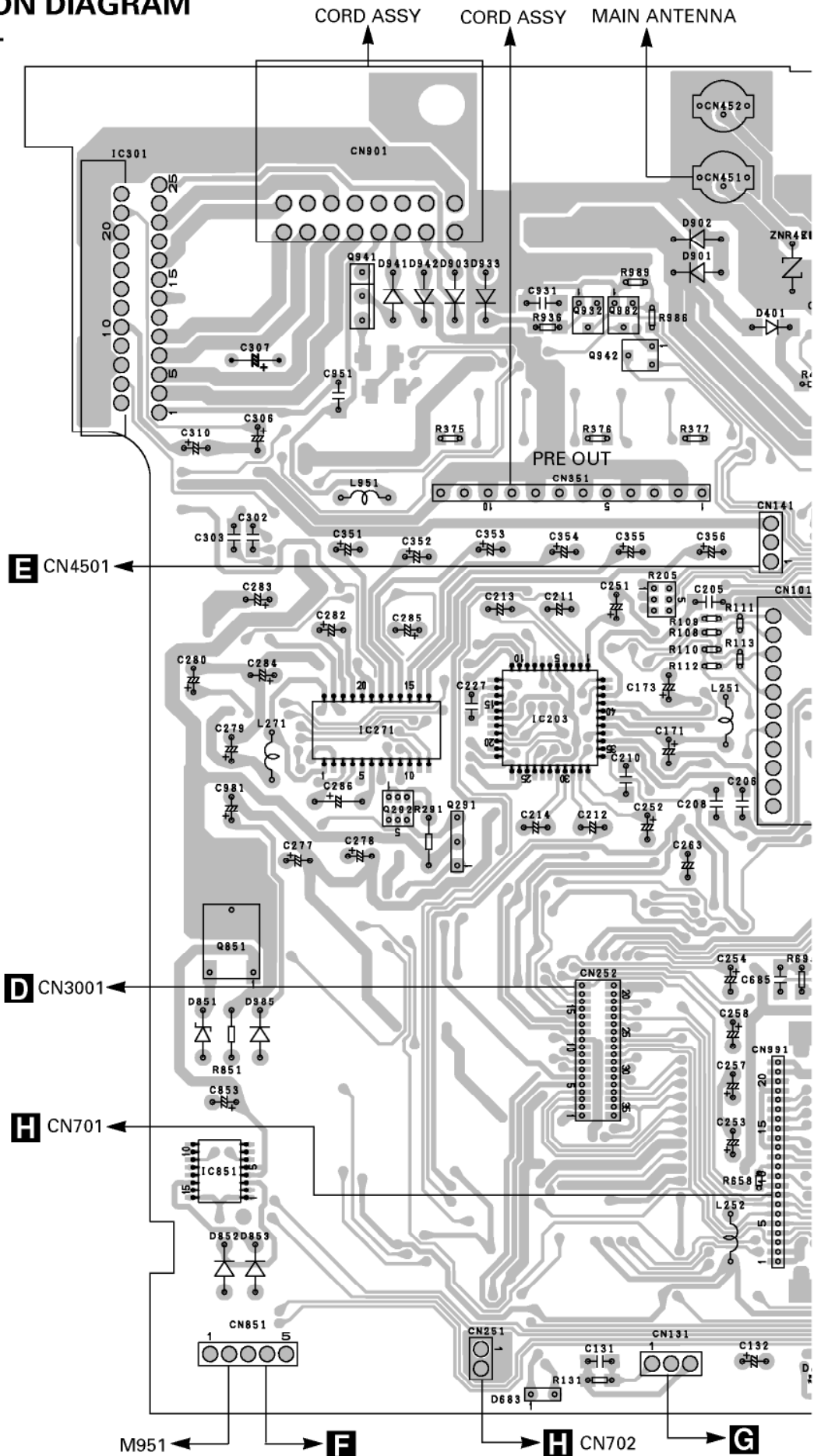
NOTE FOR PCB DIAGRAMS

- 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.

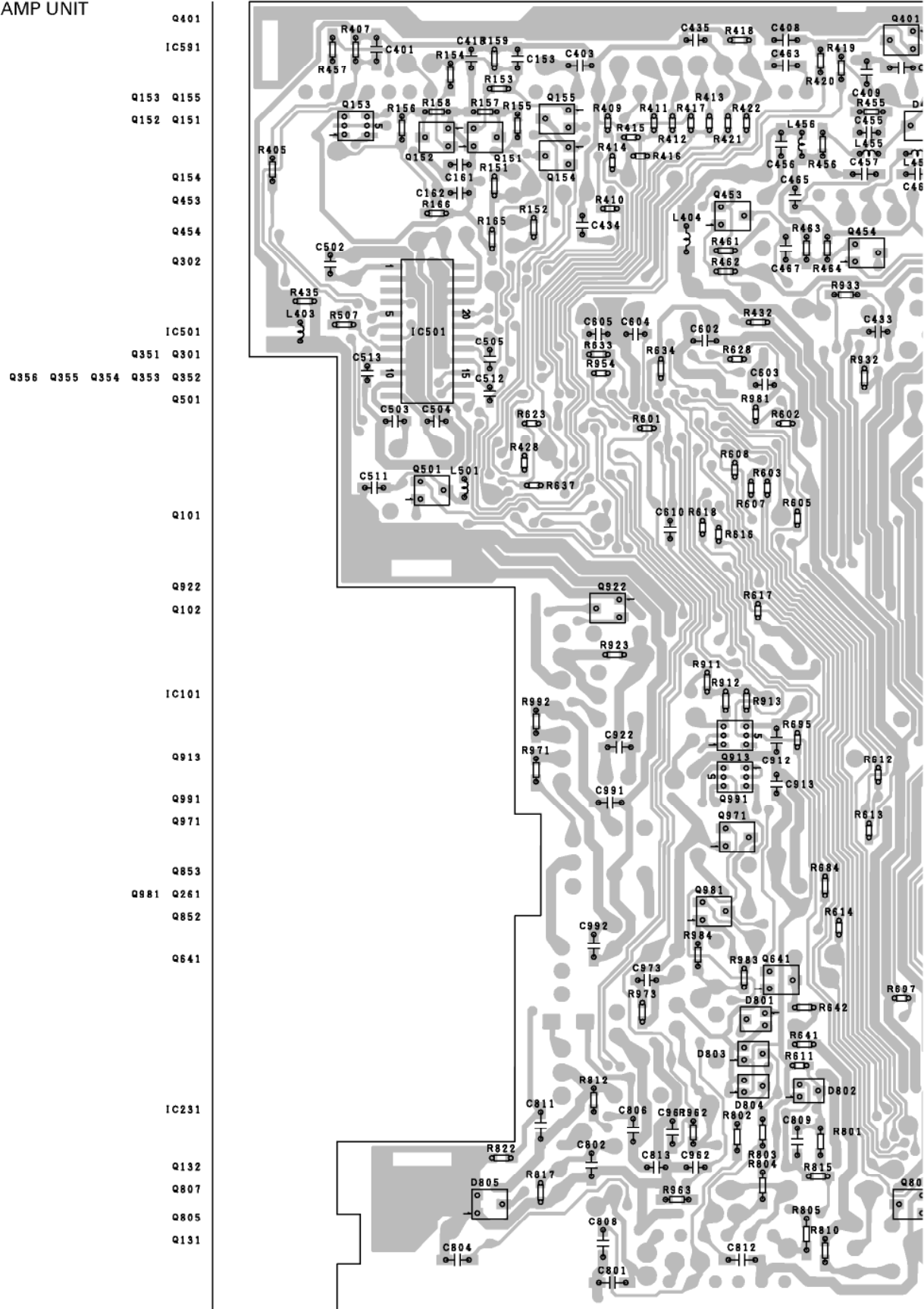
2. Viewpoint of PCB diagrams



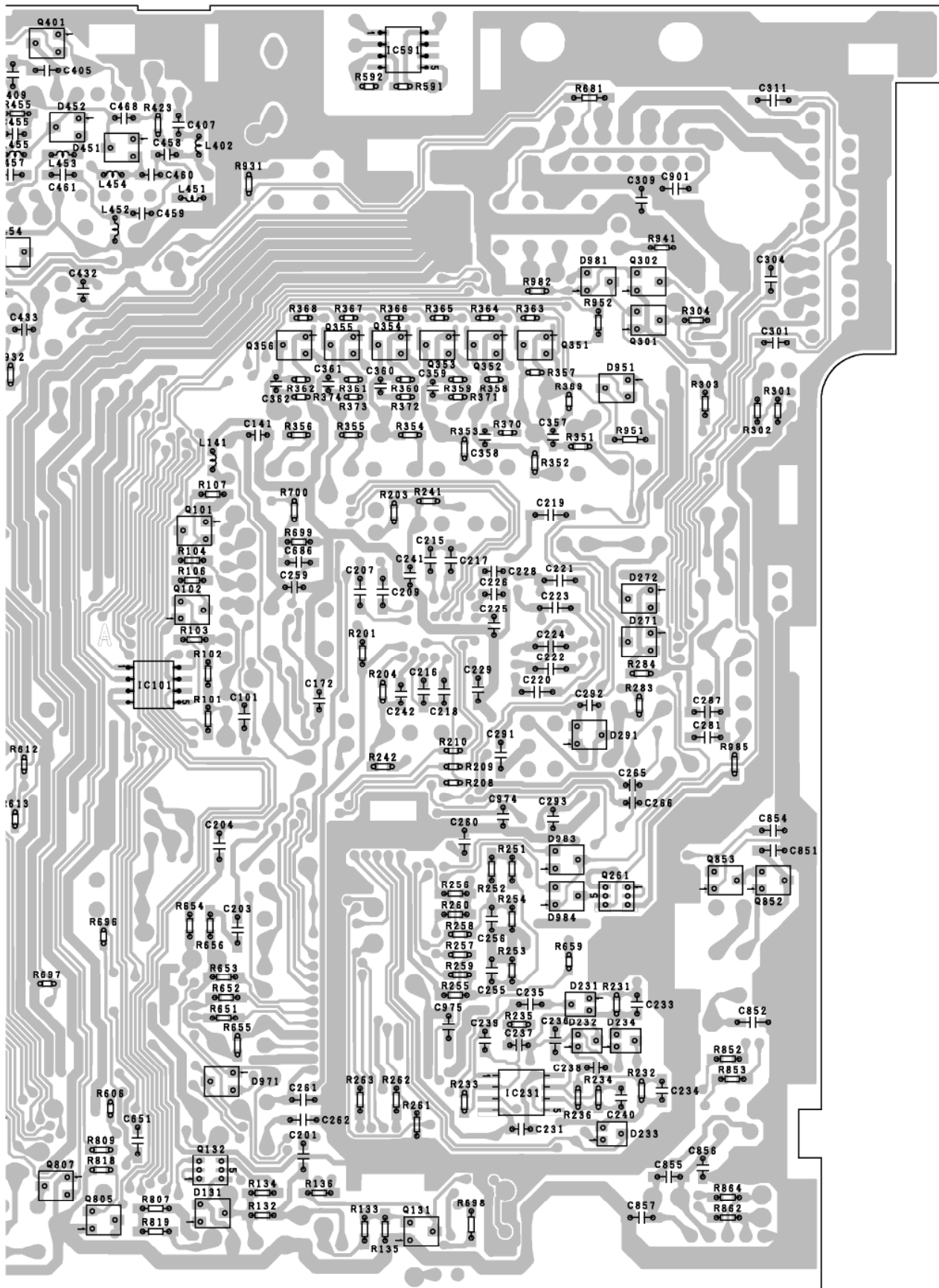
A TUNER AMP UNIT



A



SIDE B

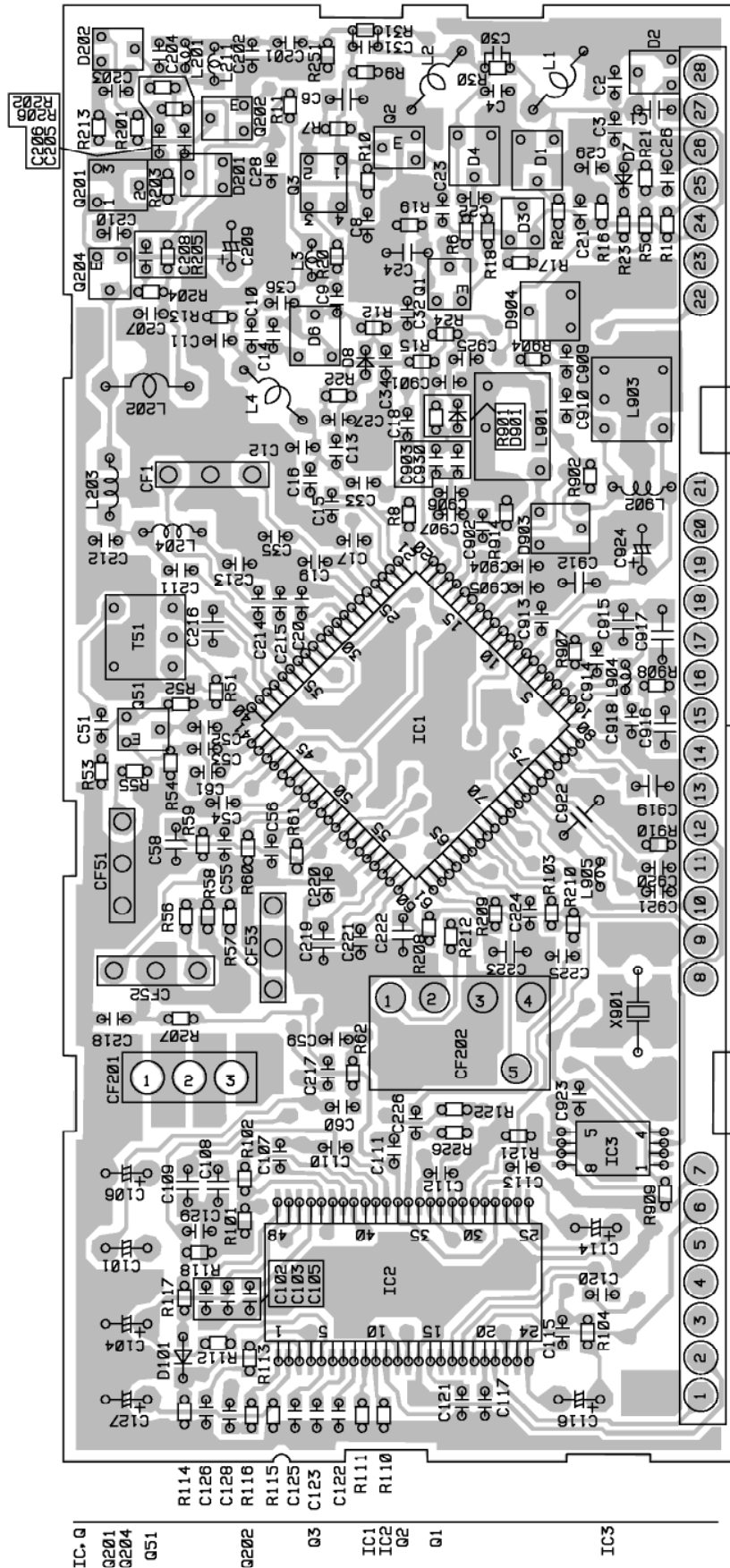


1 2 3 4

DEH-P9100R,P8100R

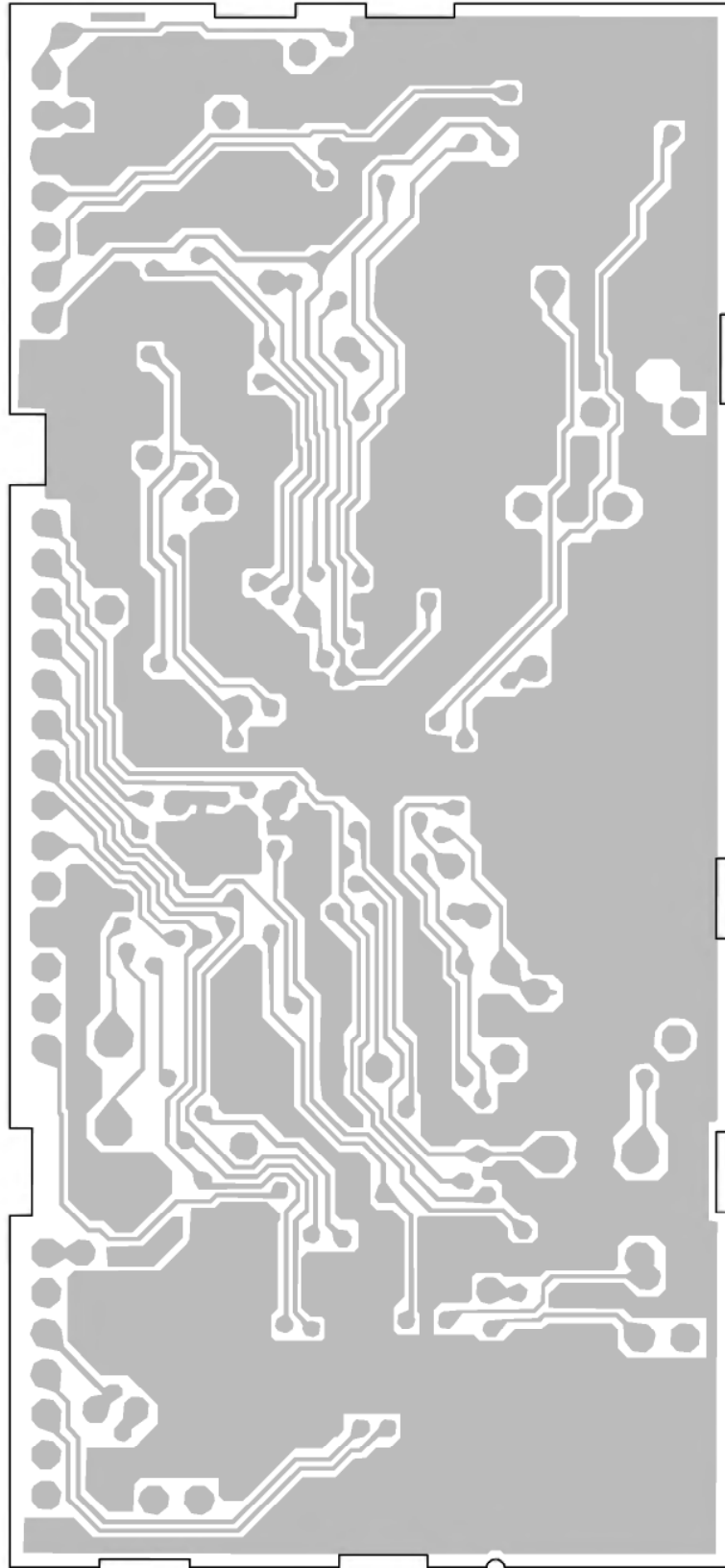
4.2 FM/AM TUNER UNIT

B FM/AM TUNER UNIT



SIDE A

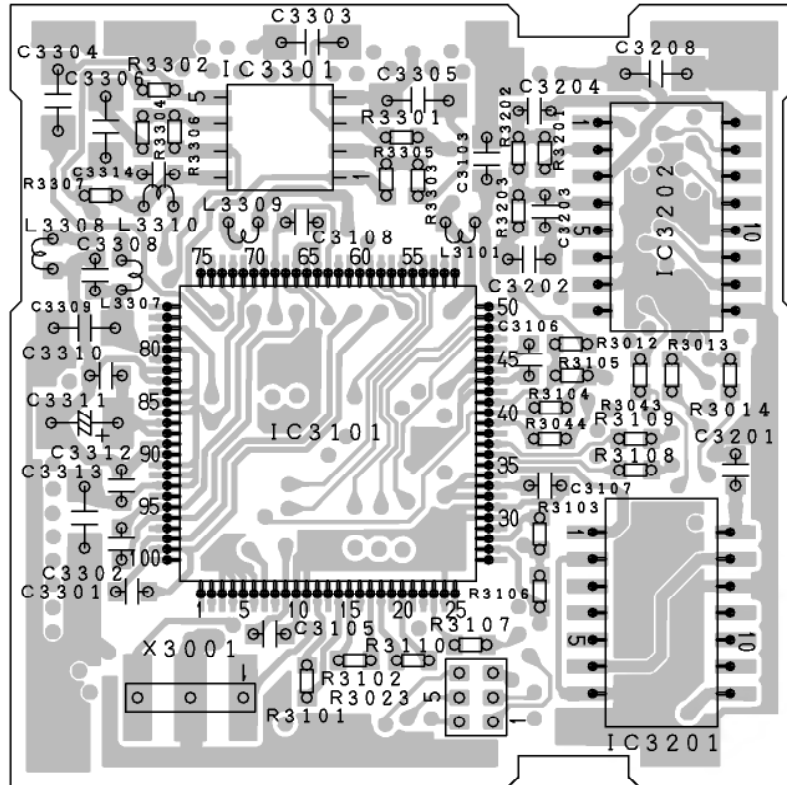
SIDE B



B FM/AM TUNER UNIT

4.4 DSP UNIT(DEH-P9100R/EW)

D DSP UNIT



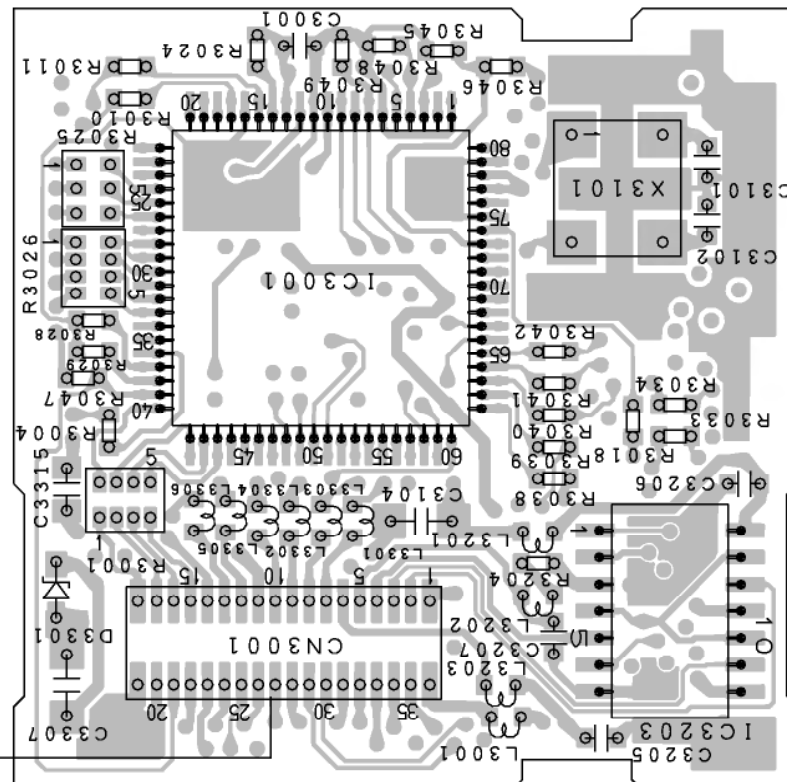
SIDE A

IC3301
IC3202

IC3101

IC3201

D DSP UNIT



SIDE B

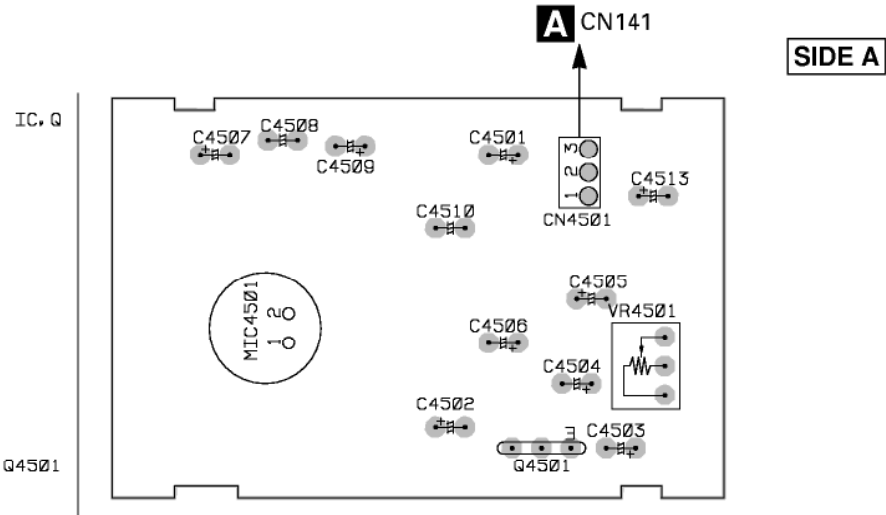
IC3001

IC3203

A CN252

4.5 ASL UNIT(DEH-P9100R/EW)

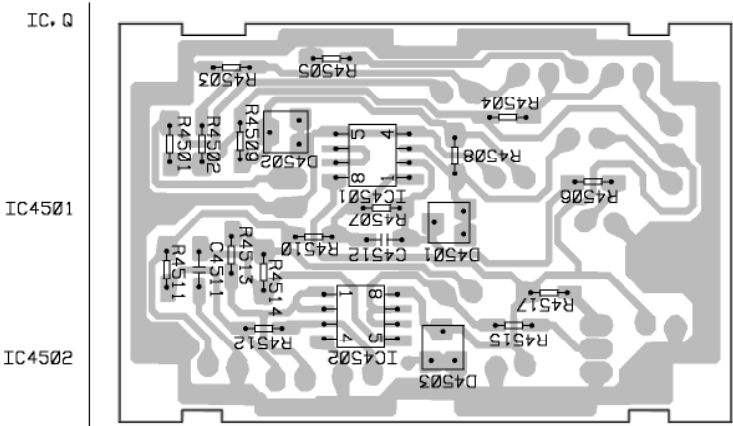
A **E** ASL UNIT



B

E ASL UNIT

SIDE B

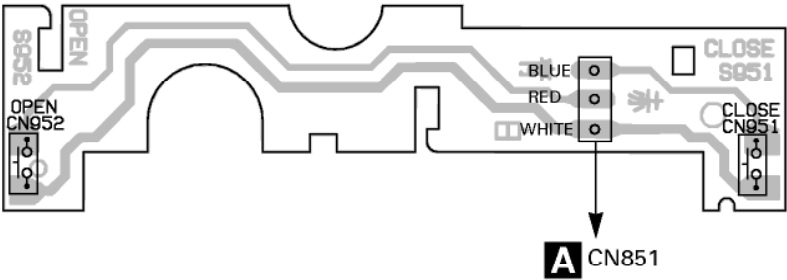


C

D

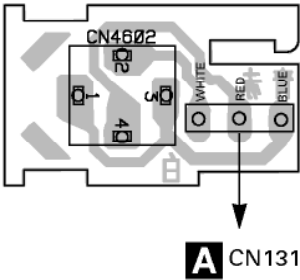
4.6 SWITCH PCB

F SWITCH PCB



4.7 MIC JACK PCB(DEH-P9100R/EW)

G MIC JACK PCB



5. ELECTRICAL PARTS LIST

NOTES:

- 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.
A Unit Number : CWM6212(DEH-P9100R/EW)		Q 922 Transistor	DTC114EK
Unit Name : Tuner Amp Unit		Q 923 Transistor	2SB1238
MISCELLANEOUS		Q 931 Transistor	IMX1
		Q 932 Transistor	DTC114EK
		Q 951 Transistor	2SA1162
IC 101 IC	CA0008AM	Q 962 Transistor	2SC2412K
IC 203 IC	PML004AF	Q 971 Transistor	DTC123EK
IC 271 IC	PA2028A	Q 972 Transistor	2SB1238
IC 301 IC	PAL005A	Q 981 Transistor	2SC2412K
IC 401 IC	S-81250SGUP	Q 982 Transistor	2SC2412K
IC 501 IC	PM4009A	Q 991 Transistor	IMD2A
IC 601 IC	PD5482C	Q 998 Transistor	2SD2396
IC 851 IC	BA6288FS	D 131 Diode	MA3039(L)
IC 961 IC	S-80735ANDZI	D 291 Diode	MA3056(M)
IC 971 IC	NJM7805FA	D 401 Diode	1SR154-400
Q 101 Transistor	2SA1162	D 402 Diode	HZS16(2)
Q 102 Transistor	DTC124EK	D 683 LED	BR4361F
Q 131 Transistor	2SC2412K	D 801 Diode Network	DA204U
Q 132 Transistor	IMD2A	D 802 Diode Network	DA204U
Q 151 Transistor	2SD1757K	D 803 Diode Network	DA204U
Q 152 Transistor	2SD1757K	D 804 Diode Network	DA204U
Q 153 Transistor	IMH3A	D 805 Diode	MA3056(M)
Q 154 Transistor	DTA114EK	D 806 Diode	HZS9L(C2)
Q 155 Transistor	2SC2412K	D 807 LED	CL170PGCD
Q 261 Transistor	IMD2A	D 808 LED	CL170PGCD
Q 291 Transistor	2SD1859	D 809 LED	CL170PGCD
Q 292 Transistor	IMD2A	D 810 Diode	MA3062(M)
Q 301 Transistor	DTC124EK	D 851 Diode	HZS7L(C3)
Q 302 Transistor	DTC124EK	D 852 Diode	1SS133
Q 351 Transistor	2SC3326	D 853 Diode	1SS133
Q 352 Transistor	2SC3326	D 901 Diode	ERA15-02VH
Q 353 Transistor	2SC3326	D 902 Diode	ERA15-02VH
Q 354 Transistor	2SC3326	D 903 Diode	ERA15-02VH
Q 355 Transistor	2SC3326	D 911 Diode	ERA15-02VH
Q 356 Transistor	2SC3326	D 912 Diode	HZS6L(B1)
Q 401 Transistor	2SC2412K	D 921 Diode	HZS9L(C1)
Q 402 Transistor	2SC2412K	D 931 Diode	HZS7L(A1)
Q 501 Transistor	DTA124EK	D 932 Diode	HZS7L(C3)
Q 641 Transistor	DTC114EK	D 933 Diode	ERA15-02VH
Q 681 Transistor	2SA1162	D 951 Diode	MA152WK
Q 682 Transistor	DTC124EK	D 961 Diode	MA152K
Q 683 Transistor	2SC2412K	D 971 Diode	MA152WK
Q 801 Transistor	2SD1760F5	D 981 Diode	MA152WK
Q 802 Transistor	IMD2A	D 982 Diode	HZS9L(A2)
Q 803 Transistor	2SD2396	D 983 Diode	MA152K
Q 805 Transistor	2SC2412K	D 984 Diode	MA152WK
Q 806 Transistor	2SB1238	D 985 Diode	1SS133
Q 807 Transistor	DTC143EK	D 991 Diode	HZS9L(B1)
Q 808 Transistor	IMD2A	ZNR 451	DSPS-201M-S00B
Q 851 Transistor	2SD1760F5	L 101 Inductor	LAU3R3K
Q 852 Transistor	DTA114EK	L 141 Inductor	CTF1420
Q 853 Transistor	DTC124EK	L 251 Ferri-Inductor	LAU2R2K
Q 911 Transistor	2SD1760F5	L 252 Ferri-Inductor	LAU1R0M
Q 913 Transistor	IMD2A	L 271 Ferri-Inductor	LAU101K
Q 921 Transistor	2SD2396	L 401 Ferri-Inductor	LAU2R2K

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
L 402 Inductor	LCTB4R7K2125	R 263	RS1/10S102J
L 403 Inductor	CTF1420	R 283	RS1/10S203J
L 404 Inductor	LCTA1R0J3225	R 284	RS1/10S0R0J
L 501 Inductor	CTF1295	R 291	RD1/4PU911J
L 502 Inductor	CTF1420	R 301	RS1/10S103J
L 601 Inductor	LAU100K	R 302	RS1/10S103J
L 801 Inductor	LAU100K	R 303	RS1/10S103J
L 802 Inductor	CTF1484	R 304	RS1/10S331J
L 951 Ferri-Inductor	LAU2R2K	R 351	RS1/10S820J
X 501 Crystal Resonator 3.648MHz	CSS1447	R 352	RS1/10S820J
X 601 Radiator 10.00MHz	CSS1475	R 353	RS1/10S820J
DSP Unit	CWX2323	R 354	RS1/10S820J
Buzzer	CPV1012	R 355	RS1/10S820J
FM/AM Tuner Unit	CWE1500	R 356	RS1/10S820J
		R 357	RS1/16S223J
RESISTORS		R 358	RS1/16S223J
R 101	RS1/10S101J	R 359	RS1/16S223J
R 102	RS1/10S620J	R 360	RS1/16S223J
R 103	RS1/10S101J	R 361	RS1/16S223J
R 104	RS1/10S222J	R 362	RS1/16S223J
R 105	RS1/10S103J	R 363	RS1/16S103J
R 106	RS1/10S562J	R 364	RS1/16S103J
R 107	RS1/10S332J	R 365	RS1/16S103J
R 108	RS1/16S102J	R 366	RS1/16S103J
R 109	RS1/16S102J	R 367	RS1/16S103J
R 110	RS1/16S223J	R 368	RS1/16S103J
R 111	RS1/16S223J	R 369	RS1/16S471J
R 112	RS1/16S181J	R 370	RS1/16S471J
R 113	RS1/16S181J	R 371	RS1/16S471J
R 131	RS1/10S104J	R 372	RS1/16S471J
R 132	RS1/10S222J	R 373	RS1/16S471J
R 133	RS1/10S103J	R 374	RS1/16S471J
R 134	RS1/10S561J	R 375	RS1/10S0R0J
R 135	RS1/10S223J	R 376	RS1/10S0R0J
R 136	RS1/10S473J	R 377	RS1/10S0R0J
R 153	RS1/10S224J	R 401	RS1/10S473J
R 154	RS1/10S224J	R 402	RS1/10S473J
R 155	RS1/10S222J	R 403	RS1/10S681J
R 156	RS1/10S222J	R 404	RS1/10S681J
R 157	RS1/10S223J	R 405	RS1/10S681J
R 158	RS1/10S223J	R 406	RS1/10S102J
R 159	RS1/10S224J	R 407	RS1/10S473J
R 160	RS1/16S473J	R 409	RS1/16S681J
R 161	RS1/16S162J	R 410	RS1/16S103J
R 162	RS1/16S162J	R 411	RS1/16S681J
R 163	RS1/16S272J	R 412	RS1/16S681J
R 164	RS1/16S272J	R 413	RS1/16S681J
R 165	RS1/10S104J	R 414	RS1/16S473J
R 166	RS1/10S104J	R 415	RS1/16S472J
R 208	RS1/16S102J	R 416	RS1/16S473J
R 209	RS1/16S102J	R 417	RS1/16S473J
R 210	RS1/16S102J	R 418	RS1/10S473J
R 241	RS1/10S102J	R 419	RS1/10S222J
R 242	RS1/10S102J	R 420	RS1/10S222J
R 251	RS1/10S472J	R 421	RS1/16S681J
R 252	RS1/10S472J	R 422	RS1/16S681J
R 253	RS1/10S472J	R 423	RS1/10S0R0J
R 254	RS1/10S472J	R 424	RS1/16S393J
R 255	RS1/10S223J	R 426	RS1/16S153J
R 256	RS1/10S223J	R 427	RS1/16S474J
R 257	RS1/10S331J	R 428	RS1/16S681J
R 258	RS1/10S331J	R 431	RS1/8S151J
R 259	RS1/10S331J	R 501	RS1/16S102J
R 260	RS1/10S331J	R 502	RS1/16S102J
R 261	RN1/10SE4702D	R 503	RS1/16S102J
R 262	RN1/10SE4702D		

DEH-P9100R,P8100R

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 507	RS1/10S0R0J	R 864	RS1/10S102J
R 508	RS1/16S0R0J	R 911	RS1/10S0R0J
R 511	RS1/16S102J	R 912	RS1/10S152J
R 512	RS1/16S0R0J	R 913	RS1/10S512J
R 513	RS1/16S225J	R 914	RS1/10S0R0J
R 514	RS1/10S0R0J	R 921	RS1/10S1R0J
R 518	RS1/16S681J	R 922	RD1/4PU221J
R 601	RS1/16S473J	R 923	RS1/10S102J
R 602	RS1/16S472J	R 924	RS1/4S152J
R 603	RS1/16S221J	R 926	RS1/10S223J
R 604	RS1/16S682J	R 931	RS1/10S472J
R 605	RS1/16S221J	R 932	RS1/10S473J
R 606	RS1/16S682J	R 933	RS1/10S103J
R 607	RS1/16S102J	R 934	RS1/10S473J
R 608	RS1/16S102J	R 935	RS1/10S103J
R 609	RS1/16S473J	R 936	RS1/10S103J
R 610	RS1/16S473J	R 951	RS1/8S153J
R 611	RS1/16S473J	R 952	RS1/10S472J
R 612	RS1/16S221J	R 953	RS1/10S472J
R 613	RS1/16S682J	R 954	RS1/16S102J
R 614	RS1/16S221J	R 962	RS1/10S102J
R 615	RS1/16S682J	R 963	RS1/10S473J
R 616	RS1/16S221J	R 964	RS1/10S822J
R 617	RS1/16S473J	R 971	RS1/10S102J
R 618	RS1/16S221J	R 972	RD1/4PU102J
R 619	RS1/16S682J	R 973	RS1/10S473J
R 620	RS1/16S473J	R 981	RS1/16S223J
R 623	RS1/16S473J	R 982	RS1/10S473J
R 627	RS1/16S473J	R 983	RS1/10S103J
R 628	RS1/16S473J	R 984	RS1/10S473J
R 633	RS1/10S0R0J	R 985	RS1/10S102J
R 634	RS1/10S102J	R 986	RS1/10S224J
R 637	RS1/16S473J	R 989	RS1/10S473J
R 641	RS1/10S202J	R 991	RD1/4PU221J
R 642	RS1/10S102J	R 992	RS1/10S221J
R 651	RS1/10S0R0J	CAPACITORS	
R 652	RS1/10S0R0J	C 101	CKSQYB104K16
R 653	RS1/10S0R0J	C 102	CKSQYB104K16
R 658	RS1/16S473J	C 131	CKSQYB681K50
R 681	RS1/8S102J	C 132	CEJA101M10
R 686	RS1/10S103J	C 141	CCSQCH101J50
R 687	RS1/10S223J	C 151	CEJA1R0M50
R 688	RS1/10S223J	C 152	CEJA1R0M50
R 689	RS1/10S223J	C 153	CKSQYB223K50
R 690	RS1/10S272J	C 161	CKSQYB123K25
R 695	RS1/16S473J	C 162	CKSQYB123K25
R 698	RS1/8S471J	C 171	CEJA470M16
R 699	RS1/10S102J	C 172	CKSQYB104K16
R 700	RS1/10S103J	C 173	CEJA100M16
R 801	RS1/8S222J	C 201	CKSYB105K16
R 802	RS1/8S222J	C 205	CKSYB224K16
R 803	RS1/8S222J	C 206	CKSYB224K16
R 804	RS1/8S103J	C 207	CKSYB105K16
R 805	RS1/8S472J	C 208	CKSYB105K16
R 806	RS2PMF220J	C 209	CKSYB105K16
R 807	RS1/8S221J	C 210	CKSYB105K16
R 809	RS1/10S103J	C 211	CEJANP4R7M16
R 810	RS1/10S222J	C 212	CEJANP4R7M16
R 811	RD1/4PU102J	C 213	CEJANP4R7M16
R 812	RS1/10S152J	C 214	CEJANP4R7M16
R 813	RS1/4S221J	C 215	CKSQYB473K50
R 814	RD1/4PU391J	C 216	CKSQYB473K50
R 818	RS1/10S103J	C 217	CKSQYB473K50
R 819	RS1/8S221J	C 218	CKSQYB473K50
R 820	RS1/10S1R0J	C 219	CKSYB105K16
R 821	RS1/10S1R0J	C 220	CKSYB105K16
R 851	RD1/4PU271J		
R 852	RS1/10S102J		
R 853	RS1/10S102J		
R 862	RS1/10S102J		

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
C 221	CKSYB105K16	C 411	CKSRYB472K50
C 222	CKSYB105K16	C 412	CKSQYB472K50
C 223	CKSYB105K16	C 413	CKSQYB103K50
C 224	CKSYB105K16	C 431	CEJA101M16
C 225	CKSQYB333K50	C 432	CKSQYB104K16
C 226	CKSQYB123K50	C 435	CCSQCH101J50
C 227	CKSQYB473K50	C 502	CCSQCH101J50
C 228	CKSQYB153K50	C 503	CCSQCH270J50
C 229	CKSQYB153K50	C 504	CCSQCH270J50
C 241	CKSQYB152K50	C 505	CKSQYB104K16
C 242	CKSQYB152K50	C 506	CKSQYB471K50
C 251	CEJA4R7M35	C 507	CKSQYB471K50
C 252	CEJA4R7M35	C 508	CKSQYB104K16
C 253	CEJA100M16	C 509	CEJA220M6R3
C 254	CEJA100M16	C 511	CKSQYB103K50
C 255	CKSQYB104K16	C 512	CCSRCH101J50
C 256	CKSQYB104K16	C 601	CEJA4R7M35
C 257	CEJA100M16	C 602	CKSQYB103K50
C 258	CEJA100M16	C 603	CCSQCH101J50
C 259	CKSQYB103K50	C 604	CCSQCH180J50
C 260	CKSQYB103K50	C 605	CCSQCH180J50
C 261	CKSQYB103K50	C 651	CKSYB225K16
C 262	CKSYB475K10	C 683	CKSQYB103K50
C 263	CEJANP100M10	C 686	CKSQYB473K16
C 277	CEJA4R7M35	C 801	CKSYB475K10
C 278	CEJA101M16	C 802	CKSQYB104K16
C 279	CEJA100M16	C 803	CEJA470M10
C 280	CEJA100M16	C 804	CKSQYB103K50
C 281	CKSYB225K16	C 805	CEJA470M10
C 282	CEJA330M25	C 806	CKSQYB103K50
C 283	CEJA330M25	C 807	CKSQYB102K50
C 286	CASQA3R3M16	C 808	CKSYB221K50
C 287	CKSYB684K25	C 809	CKSYB103K50
C 291	CKSYB225K16	C 810	CKSYB475K10
C 292	CKSQYB103K50	C 811	CKSYB225K16
C 293	CKSQYB103K50	C 812	CCSCH101J50
C 301	CKSQYB224K16	C 813	CKSQYB103K50
C 302	CKSQYB224K16	C 814	CKSQYB105K10
C 303	CKSQYB224K16	C 851	CKSQYB103K50
C 304	CKSQYB224K16	C 852	CKSYB104K16
C 306	CEJA330M10	C 853	CEJA220M16
C 307	CCH1339	C 855	CKSQYB102K50
C 309	CKSQYB104K16	C 856	CCSQCH101J50
C 310	CEJA100M16	C 857	CCSQCH101J50
C 311	CKSYB105K16	C 901	CKSYB103K50
C 351	CEJA100M35	C 911	CCH1183
C 352	CEJA100M35	C 912	CKSQYB472K50
C 353	CEJA100M35	C 913	CKSQYB103K50
C 354	CEJA100M35	C 914	CEJA470M10
C 355	CEJA100M35	C 915	CCH1183
C 356	CEJA100M35	C 921	CCH1181
C 357	CKSRYB222K50	C 922	CKSQYB103K50
C 358	CKSRYB222K50	C 923	CEJA101M16
C 359	CKSRYB222K50	C 931	CKSYB105K16
C 360	CKSRYB222K50	C 951	CKSYB103K50
C 361	CKSRYB222K50	C 961	CKSQYB102K50
C 362	CKSRYB222K50	C 962	CKSQYB104K16
C 401	CKSQYB182K50	C 963	CEJA2R2M50
C 403	CKSQYB473K16	C 971	CEJA101M16
C 404	CEJA101M10	C 972	CEJA100M16
C 405	CKSQYB103K50	C 973	CKSQYB103K50
C 406	CEJA220M10	C 975	CKSQYB102K50
C 407	CKSQYB103K50	C 981	CEJA220M16
C 408	CKSQYB223K50	C 991	CKSQYB473K50
C 409	CKSQYB223K50	C 992	CKSQYB102K50
		C 993	CEJA101M10

DEH-P9100R,P8100R

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

A Unit Number : CWM6220(DEH-P8100R/EW)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC	101	IC	CA0008AM
IC	203	IC	PML004AF
IC	231	IC	NJM2068MD
IC	271	IC	PA2028A
IC	301	IC	PAL005A
IC	401	IC	S-81250SGUP
IC	501	IC	PM4009A
IC	601	IC	PD5486C
IC	851	IC	BA6288FS
IC	961	IC	S-80735ANDZI
Q	101	Transistor	2SA1162
Q	102	Transistor	DTC124EK
Q	151	Transistor	2SD1757K
Q	152	Transistor	2SD1757K
Q	153	Transistor	IMH3A
Q	154	Transistor	DTA114EK
Q	155	Transistor	2SC2412K
Q	261	Transistor	IMD2A
Q	301	Transistor	DTC124EK
Q	302	Transistor	DTC124EK
Q	351	Transistor	2SC3326
Q	352	Transistor	2SC3326
Q	353	Transistor	2SC3326
Q	354	Transistor	2SC3326
Q	401	Transistor	2SC2412K
Q	402	Transistor	2SC2412K
Q	501	Transistor	DTA124EK
Q	641	Transistor	DTC114EK
Q	681	Transistor	2SA1162
Q	682	Transistor	DTC124EK
Q	683	Transistor	2SC2412K
Q	801	Transistor	2SD1760F5
Q	802	Transistor	IMD2A
Q	803	Transistor	2SD2396
Q	805	Transistor	2SC2412K
Q	806	Transistor	2SB1238
Q	807	Transistor	DTC143EK
Q	808	Transistor	IMD2A
Q	851	Transistor	2SD1760F5
Q	852	Transistor	DTA114EK
Q	853	Transistor	DTC124EK
Q	911	Transistor	2SD1760F5
Q	913	Transistor	IMD2A
Q	921	Transistor	2SD2396
Q	922	Transistor	DTC114EK
Q	923	Transistor	2SB1238
Q	931	Transistor	IMX1
Q	932	Transistor	DTC114EK
Q	951	Transistor	2SA1162
Q	962	Transistor	2SC2412K
Q	981	Transistor	2SC2412K
Q	982	Transistor	2SC2412K
Q	991	Transistor	IMD2A
Q	998	Transistor	2SD2396
D	231	Diode Network	DA204U
D	232	Diode Network	DA204U
D	233	Diode Network	DA204U
D	234	Diode Network	DA204U
D	401	Diode	1SR154-400
D	402	Diode	HZS16(2)
D	683	LED	BR4361F
D	801	Diode Network	DA204U
D	802	Diode Network	DA204U
D	803	Diode Network	DA204U
D	804	Diode Network	DA204U

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

D	805	Diode	MA3056(M)
D	806	Diode	HZS9L(C2)
D	807	LED	CL170PGCD
D	808	LED	CL170PGCD
D	809	LED	CL170PGCD
D	810	Diode	MA3062(M)
D	851	Diode	HZS7L(C3)
D	852	Diode	1SS133
D	853	Diode	1SS133
D	901	Diode	ERA15-02VH
D	902	Diode	ERA15-02VH
D	903	Diode	ERA15-02VH
D	911	Diode	ERA15-02VH
D	912	Diode	HZS6L(B1)
D	921	Diode	HZS9L(C1)
D	931	Diode	HZS7L(A1)
D	932	Diode	HZS7L(C3)
D	933	Diode	ERA15-02VH
D	951	Diode	MA152WK
D	961	Diode	MA152K
D	981	Diode	MA152WK
D	982	Diode	HZS9L(A2)
D	983	Diode	MA152K
D	984	Diode	MA152WK
D	985	Diode	1SS133
D	991	Diode	HZS9L(B1)
ZNR	451		DSPS-201M-S00B
L	101	Inductor	LAU3R3K
L	251	Ferri-Inductor	LAU2R2K
L	271	Ferri-Inductor	LAU101K
L	401	Ferri-Inductor	LAU2R2K
L	402	Inductor	LCTB4R7K2125
L	403	Inductor	CTF1420
L	404	Inductor	LCTA1R0J3225
L	501	Inductor	CTF1295
L	502	Inductor	CTF1420
L	601	Inductor	LAU100K
L	801	Inductor	LAU100K
L	802	Inductor	CTF1484
L	951	Ferri-Inductor	LAU2R2K
X	501	Crystal Resonator 3.648MHz	CSS1447
X	601	Radiator 10.00MHz	CSS1475
SP	641	FM/AM Tuner Unit	CWE1500
		Buzzer	CPV1012

RESISTORS

R	101	RS1/10S101J
R	102	RS1/10S620J
R	103	RS1/10S101J
R	104	RS1/10S222J
R	105	RS1/10S103J
R	106	RS1/10S562J
R	107	RS1/10S332J
R	108	RS1/16S102J
R	109	RS1/16S102J
R	110	RS1/16S223J
R	111	RS1/16S223J
R	112	RS1/16S181J
R	113	RS1/16S181J
R	153	RS1/10S224J
R	154	RS1/10S224J
R	155	RS1/10S222J
R	156	RS1/10S222J
R	157	RS1/10S223J
R	158	RS1/10S223J
R	159	RS1/10S224J

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
R 160	RS1/16S473J	R 503	RS1/16S102J
R 161	RS1/16S162J	R 507	RS1/10S0R0J
R 162	RS1/16S162J	R 508	RS1/16S0R0J
R 163	RS1/16S272J	R 511	RS1/16S102J
R 164	RS1/16S272J	R 512	RS1/16S0R0J
R 165	RS1/10S104J	R 513	RS1/16S225J
R 166	RS1/10S104J	R 514	RS1/10S0R0J
R 201	RS1/10S0R0J	R 518	RS1/16S681J
R 203	RS1/10S102J	R 601	RS1/16S473J
R 204	RS1/10S102J	R 602	RS1/16S472J
R 205	RA3C102J	R 603	RS1/16S221J
R 231	RS1/10S474J	R 604	RS1/16S682J
R 232	RS1/10S474J	R 605	RS1/16S221J
R 233	RS1/10S104J	R 606	RS1/16S682J
R 234	RS1/10S104J	R 607	RS1/16S102J
R 235	RS1/10S273J	R 608	RS1/16S102J
R 236	RS1/10S273J	R 609	RS1/16S473J
R 283	RS1/10S203J	R 610	RS1/16S473J
R 284	RS1/10S0R0J	R 611	RS1/16S473J
R 301	RS1/10S103J	R 614	RS1/16S221J
R 302	RS1/10S103J	R 615	RS1/16S682J
R 303	RS1/10S103J	R 616	RS1/16S221J
R 304	RS1/10S331J	R 617	RS1/16S473J
R 351	RS1/10S820J	R 618	RS1/16S221J
R 352	RS1/10S820J	R 619	RS1/16S682J
R 353	RS1/10S820J	R 620	RS1/16S473J
R 354	RS1/10S820J	R 623	RS1/16S473J
R 357	RS1/16S223J	R 627	RS1/16S473J
R 358	RS1/16S223J	R 628	RS1/16S473J
R 359	RS1/16S223J	R 633	RS1/10S0R0J
R 360	RS1/16S223J	R 634	RS1/10S102J
R 363	RS1/16S103J	R 637	RS1/16S473J
R 364	RS1/16S103J	R 641	RS1/10S202J
R 365	RS1/16S103J	R 642	RS1/10S102J
R 366	RS1/16S103J	R 654	RS1/10S0R0J
R 369	RS1/16S471J	R 655	RS1/10S0R0J
R 370	RS1/16S471J	R 656	RS1/10S0R0J
R 371	RS1/16S471J	R 658	RS1/16S473J
R 372	RS1/16S471J	R 659	RS1/16S0R0J
R 375	RS1/10S0R0J	R 681	RS1/8S102J
R 376	RS1/10S0R0J	R 686	RS1/10S103J
R 401	RS1/10S473J	R 687	RS1/10S223J
R 402	RS1/10S473J	R 688	RS1/10S223J
R 403	RS1/10S681J	R 689	RS1/10S223J
R 404	RS1/10S681J	R 690	RS1/10S272J
R 405	RS1/10S681J	R 695	RS1/16S473J
R 406	RS1/10S102J	R 698	RS1/8S471J
R 407	RS1/10S473J	R 699	RS1/10S102J
R 409	RS1/16S681J	R 700	RS1/10S103J
R 410	RS1/16S103J	R 801	RS1/8S222J
R 411	RS1/16S681J	R 802	RS1/8S222J
R 412	RS1/16S681J	R 803	RS1/8S222J
R 413	RS1/16S681J	R 804	RS1/8S103J
R 414	RS1/16S473J	R 805	RS1/8S472J
R 415	RS1/16S472J	R 806	RS2PMF220J
R 416	RS1/16S473J	R 807	RS1/8S221J
R 417	RS1/16S473J	R 809	RS1/10S103J
R 418	RS1/10S473J	R 810	RS1/10S222J
R 419	RS1/10S222J	R 811	RD1/4PU102J
R 420	RS1/10S222J	R 812	RS1/10S152J
R 421	RS1/16S681J	R 813	RS1/4S221J
R 422	RS1/16S681J	R 814	RD1/4PU391J
R 423	RS1/10S0R0J	R 818	RS1/10S103J
R 424	RS1/16S393J	R 819	RS1/8S221J
R 426	RS1/16S153J	R 820	RS1/10S1R0J
R 427	RS1/16S474J	R 821	RS1/10S1R0J
R 428	RS1/16S681J	R 851	RD1/4PU271J
R 431	RS1/8S151J	R 852	RS1/10S102J
R 501	RS1/16S102J	R 853	RS1/10S102J
R 502	RS1/16S102J	R 862	RS1/10S102J

DEH-P9100R,P8100R

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 864	RS1/10S102J	C 229	CKSQYB153K50
R 911	RS1/10S0R0J	C 231	CKSQYB103K50
R 912	RS1/10S152J	C 233	CKSQYB474K16
R 913	RS1/10S512J	C 234	CKSQYB474K16
R 914	RS1/10S0R0J	C 235	CKSQYB104K16
R 921	RS1/10S1R0J	C 236	CKSQYB104K16
R 922	RD1/4PU221J	C 237	CKSQYB104K25
R 923	RS1/10S102J	C 238	CKSQYB104K25
R 924	RS1/4S152J	C 239	CCSQCH470J50
R 926	RS1/10S223J	C 240	CCSQCH470J50
R 931	RS1/10S472J	C 241	CKSQYB152K50
R 932	RS1/10S473J	C 242	CKSQYB152K50
R 933	RS1/10S103J	C 262	CKSYB475K10
R 934	RS1/10S473J	C 277	CEJA4R7M35
R 935	RS1/10S103J	C 278	CEJA101M16
R 936	RS1/10S103J	C 279	CEJA100M16
R 951	RS1/8S153J	C 280	CEJA100M16
R 952	RS1/10S472J	C 281	CKSYB225K16
R 953	RS1/10S472J	C 282	CEJA330M25
R 954	RS1/16S102J	C 283	CEJA330M25
R 962	RS1/10S102J	C 286	CASAQ3R3M16
R 963	RS1/10S473J	C 287	CKSYB684K25
R 964	RS1/10S822J	C 301	CKSQYB224K16
R 981	RS1/16S223J	C 302	CKSQYB224K16
R 982	RS1/10S473J	C 303	CKSQYB224K16
R 983	RS1/10S103J	C 304	CKSQYB224K16
R 984	RS1/10S473J	C 306	CEJA330M10
R 985	RS1/10S102J	C 307	CCH1339
R 986	RS1/10S224J	C 309	CKSQYB104K16
R 989	RS1/10S473J	C 310	CEJA100M16
R 991	RD1/4PU221J	C 311	CKSYB105K16
R 992	RS1/10S221J	C 351	CEJA100M35
		C 352	CEJA100M35
		C 353	CEJA100M35
CAPACITORS		C 354	CEJA100M35
C 101	CKSQYB104K16	C 357	CKSRYB222K50
C 102	CKSQYB104K16	C 358	CKSRYB222K50
C 151	CEJA1R0M50	C 359	CKSRYB222K50
C 152	CEJA1R0M50	C 360	CKSRYB222K50
C 153	CKSQYB223K50	C 401	CKSQYB182K50
C 161	CKSQYB123K25	C 403	CKSQYB473K16
C 162	CKSQYB123K25	C 404	CEJA101M10
C 171	CEJA470M16	C 405	CKSQYB103K50
C 172	CKSQYB104K16	C 406	CEJA220M10
C 173	CEJA100M16	C 407	CKSQYB103K50
C 203	CKSYB225K16	C 408	CKSQYB223K50
C 204	CKSYB225K16	C 409	CKSQYB223K50
C 205	CKSYB224K16	C 411	CKSRYB472K50
C 206	CKSYB224K16	C 412	CKSQYB472K50
C 207	CKSYB105K16	C 413	CKSQYB103K50
C 208	CKSYB105K16	C 431	CEJA101M16
C 209	CKSYB105K16	C 432	CKSQYB104K16
C 210	CKSYB105K16	C 435	CCSQCH101J50
C 211	CEJANP4R7M16	C 502	CCSQCH101J50
C 212	CEJANP4R7M16	C 503	CCSQCH270J50
C 213	CEJANP4R7M16	C 504	CCSQCH270J50
C 214	CEJANP4R7M16	C 505	CKSQYB104K16
C 215	CKSQYB473K50	C 506	CKSQYB471K50
C 216	CKSQYB473K50	C 507	CKSQYB471K50
C 217	CKSQYB473K50	C 508	CKSQYB104K16
C 218	CKSQYB473K50	C 509	CEJA220M6R3
C 219	CKSYB105K16	C 511	CKSQYB103K50
C 220	CKSYB105K16	C 512	CCSRCH101J50
C 221	CKSYB105K16	C 601	CEJA4R7M35
C 222	CKSYB105K16	C 602	CKSQYB103K50
C 223	CKSYB105K16	C 603	CCSQCH101J50
C 224	CKSYB105K16	C 604	CCSQCH180J50
C 225	CKSQYB333K50	C 605	CCSQCH180J50
C 226	CKSQYB123K50	C 651	CKSYB225K16
C 227	CKSQYB473K50		

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
C 683	CKSQYB103K50	L 203 Inductor	LCTA121J3225
C 686	CKSQYB473K16	L 901 Coil	CTC1154
C 801	CKSYB475K10	L 902 Inductor	LCTA3R3J3225
C 802	CKSQYB104K16	L 904 Inductor	LCTBR47K1608
C 803	CEJA470M10	L 905 Inductor	LCTBR47K1608
C 804	CKSQYB103K50	T 51 Coil	CTE1132
C 805	CEJA470M10	CF 51 Ceramic Filter	CTF1442
C 806	CKSQYB103K50	CF 52 Ceramic Filter	CTF1442
C 807	CKSQYB102K50	CF 53 Ceramic Filter	CTF1442
C 808	CKSYB221K50	CF 202 Ceramic Filter	CTF1476
C 809	CKSYB103K50	X 901 Crystal Resonator 10.250MHz	CSS1432
C 810	CKSYB475K10	RESISTORS	
C 811	CKSYB225K16	R 1	RS1/16S153J
C 812	CCSCH101J50	R 2	RS1/16S103J
C 813	CKSQYB103K50	R 6	RS1/16S103J
C 814	CKSQYB105K10	R 7	RS1/16S273J
C 851	CKSQYB103K50	R 8	RS1/16S473J
C 852	CKSYB104K16	R 9	RS1/16S223J
C 853	CEJA220M16	R 10	RS1/16S473J
C 855	CKSQYB102K50	R 11	RS1/16S221J
C 856	CCSQCH101J50	R 12	RS1/16S103J
C 857	CCSQCH101J50	R 13	RS1/16S104J
C 901	CKSYB103K50	R 16	RS1/16S223J
C 911 470μF/16V	CCH1183	R 17	RS1/16S221J
C 912	CKSQYB472K50	R 18	RS1/16S221J
C 913	CKSQYB103K50	R 19	RS1/16S473J
C 914	CEJA470M10	R 20	RS1/16S470J
C 915 470μF/16V	CCH1183	R 51	RS1/16S470J
C 921 330μF/10V	CCH1181	R 52	RS1/16S103J
C 922	CKSQYB103K50	R 53	RS1/16S103J
C 923	CEJA101M16	R 54	RS1/16S331J
C 931	CKSYB105K16	R 55	RS1/16S331J
C 951	CKSYB103K50	R 56	RS1/16S560J
C 961	CKSQYB102K50	R 57	RS1/16S560J
C 962	CKSQYB104K16	R 58	RS1/16S102J
C 963	CEJA2R2M50	R 59	RS1/16S225J
C 981	CEJA220M16	R 60	RS1/16S133J
C 991	CKSQYB473K50	R 61	RS1/16S433J
C 992	CKSQYB102K50	R 62	RS1/16S562J
C 993	CEJA101M10	R 101	RS1/16S333J
		R 102	RS1/16S103J
		R 103	RS1/16S333J
		R 104	RS1/16S562J
		R 110	RS1/16S154J
		R 111	RS1/16S273J
		R 112	RS1/16S223J
		R 113	RS1/16S222J
		R 114	RS1/16S333J
		R 115	RS1/16S334J
		R 116	RS1/16S473J
		R 117	RS1/16S333J
		R 118	RS1/16S223J
		R 122	RS1/16S0R0J
		R 202	RS1/16S472J
		R 203	RS1/16S225J
		R 204	RS1/16S102J
		R 205	RS1/16S220J
		R 206	RS1/16S471J
		R 208	RS1/16S104J
		R 209	RS1/16S104J
		R 210	RS1/16S563J
		R 213	RS1/16S223J
		R 251	RS1/16S225J
		R 902	RS1/16S103J
		R 904	RS1/16S473J
		R 907	RS1/16S103J
		R 908	RS1/16S681J
IC 1 IC	PML002A		
IC 2 IC	PM4008A		
IC 3 IC	BR9010FV		
Q 1 Transistor	2SC4081		
Q 2 Transistor	DTC124EU		
Q 3 FET	3SK263		
Q 51 Transistor	2SC4081		
Q 201 FET	2SK932		
Q 202 Transistor	DTC124EU		
Q 204 Transistor	2SC4081		
D 1 Diode	KV1410(23)		
D 2 Diode	1SV248		
D 4 Diode	KV1410(23)		
D 6 Diode	KV1410(23)		
D 101 Diode	1SS355		
D 201 Diode	DAN217U		
D 202 Diode	MA147		
D 903 Diode	KV1410(23)		
D 904 Diode	SVC253		
L 1 Coil	CTC1155		
L 2 Coil	CTC1155		
L 3 Inductor	LCTB100K2125		
L 4 Coil	CTC1155		
L 201 Inductor	LCTB330K1608		
L 202 Inductor	CTF1287		

B Unit Number : CWE1500
Unit Name : FM/AM Tuner Unit

MISCELLANEOUS

DEH-P9100R,P8100R

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
R 909	RS1/16S473J	C 215	CKSRYB223K25
R 914	RS1/16S562J	C 216	CKSQYB334K16
CAPACITORS		C 217	CKSRYB103K50
C 1	CCSOCH5R0C50	C 219	CKSQYB105K10
C 2	CCSRCH5R0C50	C 220	CKSRYB104K16
C 4	CCSRCJ3R0C50	C 221	CKSRYB473K16
C 6	CKSQYB105K10	C 222	CKSQYB334K16
C 8	CKSRYB222K50	C 223	CKSQYB474K16
C 10	CCSRCH220J50	C 224	CKSRYB104K16
C 11	CCSRCH150J50	C 225	CKSRYB272K50
C 12	CCSRCH8R0D50	C 226	CKSRYB682K25
C 14	CCSRCJ3R0C50	C 902	CCSRCH270J50
C 15	CKSRYB103K50	C 904	CKSRYB223K25
C 16	CKSRYB222K50	C 905	CKSRYB103K50
C 17	CKSRYB222K50	C 906	CCSRTH100D50
C 18	CCSRCJ3R0C50	C 907	CCSRTH150J50
C 19	CKSRYB103K50	C 909	CCSRTH100D50
C 20	CKSRYB103K50	C 910	CKSRYB332K50
C 21	CKSRYB103K50	C 912	CKSQYB474K16
C 24	CKSQYB334K16	C 913	CKSRYB223K25
C 31	CKSRYB222K50	C 914	CKSRYB682K25
C 32	CCSRCH470J50	C 915	CKSQYB223K25
C 35	CKSRYB103K50	C 916	CKSQYB474K16
C 51	CKSRYB103K50	C 917	CKSYB475K10
C 52	CKSRYB473K16	C 918	CKSRYB223K25
C 53	CCSRCK2R0C50	C 919	CKSQYB225K10
C 54	CKSRYB103K50	C 920	CCSRCH270J50
C 55	CKSRYB104K16	C 921	CCSRCH270J50
C 56	CKSRYB104K16	C 922	CKSYB105K16
C 58	CKSQYB224K16	C 923	CKSRYB103K50
C 59	CKSRYB223K25	C Unit Number : CWM7063 Unit Name : Keyboard Unit	
C 60	CKSRYB104K16		
C 101	CEALNP100M10	MISCELLANEOUS	
C 102	CCSRCH151J50	IC 1901	IC
C 103	CKSRYB473K16	IC 1902	IC
C 105	CKSRYB682K25	IC 1903	
C 106	CEAL2R2M50	Q 1901	Transistor
C 107	CKSRYB103K50	Q 1902	Transistor
C 108	CKSQYB474K16	Q 1903	Transistor
C 109	CKSQYB474K16	Q 1904	Transistor
C 110	CKSRYB104K16	Q 1905	Transistor
C 111	CKSRYB104K16	Q 1906	Transistor
C 112	CKSRYB104K16	D 1901	Diode Network
C 113	CKSRYB123K25	D 1902	Diode Network
C 114	CEAL220M6R3	D 1904	Diode
C 115	CKSRYB473K16	D 1907	LED
C 116	CEAL2R2M50	D 1908	LED
C 117	CKSRYB102K50	D 1910	LED
C 120	CKSRYB153K25	L 1901	
C 121	CKSRYB332K50	L 1902	
C 122	CKSRYB682K25	L 1903	Inductor
C 123	CKSRYB681K50	L 1904	Inductor
C 125	CKSRYB103K50	L 1905	
C 126	CKSRYB103K50	L 1906	
C 127	CEAL2R2M50	L 1907	Inductor
C 128	CKSRYB103K50	L 1908	Inductor
C 201	CCSRCH471J50	X 1901	Ceramic Resonator 15.62MHz
C 202	CCSRCH100D50	S 1901	
C 203	CKSRYB104K16	S 1902	
C 204	CKSRYB332K50	S 1903	Spring Switch
C 205	CKSRYB103K50	S 1904	Spring Switch
C 206	CKSRYB104K16	S 1905	
C 207	CKSRYB473K16	S 1906	Switch
C 208	CCSRCH560J50	S 1907	
C 209	CEAL470M6R3	S 1908	
C 210	CKSRYB103K50	S 1909	
C 211	CKSRYB103K50	S 1910	
C 212	CCSRCH101J50	S 1911	
			PD5471A
			PD8051A
			RS-140
			DTC143TK
			IMH10A
			IMH10A
			IMH10A
			IMH10A
			IMH10A
			DA204U
			DA204U
			MA110
			CL170UBX
			CL170UBX
			CL155DPGD
			LCTA2R2J3225
			LCTA2R2J3225
			CTF1484
			LCTA220J2520
			CTF1421
			CTF1421
			CTF1295
			CTF1295
			CSG1458
			CSG1113
			CSG1113
			CSN1033
			CSN1033
			CSG1113
			CSG1043
			CSG1113
			CSG1113
			CSG1113
			CSG1113

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

Part No.

S 1912
S 1913
S 1914
S 1915
S 1916

CSG1113
CSG1113
CSG1113
CSG1113
CSG1113

S 1917
S 1918
S 1919
S 1920
S 1921

CSG1113
CSG1113
CSG1111
CSG1113
CSG1113

S 1922
S 1923
S 1924
S 1925

CSG1113
CSG1113
CSG1113
CSG1111

RESISTORS

R 1901
R 1902
R 1903
R 1904
R 1905

RS1/16S154J
RS1/16S473J
RA4C101J
RA3C101J
RA3C101J

R 1906
R 1907
R 1908
R 1909
R 1910

RA4C101J
RS1/16S473J
RA3C101J
RA3C101J
RA4C101J

R 1911
R 1912
R 1913
R 1914
R 1915

RA4C101J
RA4C101J
RA3C101J
RA4C101J
RA4C101J

R 1922
R 1923
R 1924
R 1925
R 1930

RS1/10S121J
RS1/10S2R2J
RS1/8S222J
RS1/8S222J
RS1/16S222J

R 1931
R 1951
R 1952
R 1953
R 1954

RS1/16S473J
RS1/8S242J
RS1/8S242J
RS1/10S103J
RS1/8S242J

R 1955
R 1962
R 1963
R 1964
R 1965

RS1/8S242J
RS1/10S511J
RS1/10S511J
RS1/10S821J
RS1/10S821J

R 1966
R 1967
R 1968
R 1969
R 1970

RS1/8S821J
RS1/8S821J
RS1/8S511J
RS1/8S511J
RS1/8S511J

R 1971
R 1972
R 1973
R 1974
R 1975

RS1/8S511J
RS1/8S511J
RS1/8S511J
RS1/8S511J
RS1/8S511J

R 1976
R 1977
R 1978
R 1979
R 1981

RS1/8S751J
RS1/8S751J
RS1/8S391J
RS1/8S391J
RS1/16S0R0J

CAPACITORS

C 1901
C 1902
C 1903
C 1904
C 1906

CKSQYB105K10
CKSRYB103K25
CSZS100M6R3
CSZS100M6R3
CKSQYB103K25

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

Part No.

C 1907
C 1908
C 1911
C 1914
C 1917

CSZS100M6R3
CKSRYB473K16
CKSRYB473K16
CKSRYB103K25
CSZSR100M16

C 1918
C 1919
C 1921
C 1922

CKSRYB102K50
CCSQCH221J50
CKSQYB104K25
CKSQYB104K25

D Unit Number : CWX2323(DEH-P9100R/EW)
Unit Name : DSP Unit

MISCELLANEOUS

IC 3001
IC 3101
IC 3201
IC 3202
IC 3203

IC
IC
IC
IC
IC

PD5504A
AK7714
TC74HC393AF
TC9246F
HD74HCT126FP

IC 3301
D 3301
L 3001
L 3101
L 3201

IC
Diode

NJM4580M
MA8043(L)
CTF1410
CTF1410
CTF1410

L 3202
L 3203
L 3301
L 3302
L 3303

Inductor

LCTB2R2K1608
CTF1410
CTF1410
CTF1410
CTF1410

L 3304
L 3305
L 3306
L 3307
L 3308

CTF1410
CTF1410
CTF1410
CTF1410
CTF1410

L 3309
L 3310
X 3001
X 3101

Radiator 10.00MHz
Crystal Resonator 22.5792MHz

CTF1410
CTF1410
CSS1428
CSS1403

RESISTORS

R 3001
R 3004
R 3010
R 3011
R 3012

RA4C102J
RS1/16S102J
RS1/16S681J
RS1/16S102J
RS1/16S102J

R 3013
R 3014
R 3018
R 3023
R 3024

RS1/16S102J
RS1/16S102J
RS1/16S102J
RA3C221J
RS1/16S102J

R 3025
R 3026
R 3028
R 3029
R 3033

RA3C102J
RA4C681J
RS1/16S473J
RS1/16S473J
RS1/16S102J

R 3034
R 3038
R 3039
R 3040
R 3041

RS1/16S102J
RS1/16S102J
RS1/16S102J
RS1/16S102J
RS1/16S102J

R 3042
R 3043
R 3044
R 3045
R 3047

RS1/16S102J
RS1/16S102J
RS1/16S102J
RS1/16S473J
RS1/16S473J

R 3048
R 3049
R 3101
R 3102
R 3103

RS1/16S473J
RS1/16S473J
RS1/16S0R0J
RS1/16S0R0J
RS1/16S471J

DEH-P9100R.P8100R

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 3104 R 3105 R 3106 R 3107 R 3108	RS1/16S473J RS1/16S473J RS1/16S105J RS1/16S102J RS1/16S102J	RESISTORS	
R 3109 R 3110 R 3201 R 3202 R 3203	RS1/16S102J RS1/16S0R0J RS1/16S332J RS1/16S391J RS1/16S101J	R 4501 R 4502 R 4503 R 4504 R 4505	RS1/8S222J RS1/8S683J RS1/8S103J RS1/8S472J RS1/8S471J
R 3204 R 3301 R 3302 R 3303 R 3304	RS1/16S271J RS1/16S273J RS1/16S273J RS1/16S512J RS1/16S512J	R 4506 R 4507 R 4508 R 4509 R 4510	RS1/8S682J RS1/8S684J RS1/8S562J RS1/8S391J RS1/8S472J
R 3305 R 3306 R 3307	RS1/16S272J RS1/16S272J RS1/16S681J	R 4511 R 4512 R 4513 R 4514 R 4515	RS1/8S472J RS1/8S153J RS1/8S153J RS1/8S153J RS1/8S102J
CAPACITORS		R 4517	RS1/8S270J
C 3001 C 3101 C 3102 C 3103 C 3104	CKSRYPB103K50 CCSRCH180J50 CCSRCH180J50 CKSQYB103K50 CKSYB106K6R3	CAPACITORS	
C 3105 C 3106 C 3107 C 3108 C 3201	CKSRYPB104K16 CKSRYPB104K16 CKSRYPB104K16 CKSRYPB104K16 CKSRYPB103K50	C 4501 C 4502 C 4503 C 4504 C 4505	CEJA470M10 CEJA470M10 CEJAR68M50 CEJA100M16 CEJA470M10
C 3202 C 3203 C 3204 C 3205 C 3206	CKSQYB474K16 CKSRYPB103K50 CKSRYPB123K25 CKSRYPB103K50 CKSRYPB103K50	C 4506 C 4507 C 4508 C 4509 C 4510	CEJA470M16 CEJA100M16 CEJANP220M10 CEJAR68M50 CEJANP100M10
C 3207 C 3208 C 3301 C 3302 C 3303	CCSRCH330J50 CKSYB106K6R3 CKSRYPB332K50 CKSRYPB332K50 CKSYB106K6R3	C 4511 C 4512 C 4513	CKSYB823K50 CCSCH101J50 CEJA470M10
C 3304 C 3305 C 3306 C 3307 C 3308	CKSYB106K6R3 CKSYB106K6R3 CKSYB106K6R3 CKSYB225K16 CKSRYPB104K16	F Unit Number : Unit Name : Switch PCB	S 951 Switch(CLOSE) S 952 Switch(OPEN) CSN1012 CSN1022
C 3309 C 3310 C 3311 C 3312 C 3313	CKSYB106K6R3 CKSRYPB104K16 CSZSR470M6R3 CKSRYPB104K16 CKSYB106K6R3	H Unit Number : CWX2358(DEH-P9100R/EW) Unit Name : Control Unit	MISCELLANEOUS
C 3314 C 3315	CKSRYPB103K50 CKSQYB105K10	IC 201 IC IC 301 IC IC 602 IC IC 701 IC IC 901 IC	UPD63710GC BA5985FM AK4321VF BA05SFP PE5011C
E Unit Number : CWX2322(DEH-P9100R/EW) Unit Name : ASL Unit		Q 101 Transistor Q 901 Transistor D 801 Chip LED D 802 Chip LED TH 901 Thermistor	2SB1132 UN2111 CL200IRX CL200IRX CCX1037
MISCELLANEOUS		X 201 Ceramic Resonator 16.934MHz X 901 Radiator 8.380MHz S 801 Spring Switch S 802 Spring Switch	CSS1456 CSS1453 CSN1051 CSN1052
IC 4501 IC IC 4502 IC Q 4501 Transistor D 4501 Diode D 4502 Diode	NJM2068MD NJM2068MD 2SC2458 MA152WK MA3043(LMH)	RESISTORS	
D 4503 Diode VR 4501 Semi-fixed 10kΩ(B)m MIC4501 Microphone	MA3075(M) CCP1319 CPM1011	R 101 R 102 R 103 R 201 R 205	RS1/8S120J RS1/8S100J RS1/16S222J RS1/16S104J RS1/16S103J
		R 206 R 207 R 208 R 210 R 212	RS1/16S393J RS1/16S182J RS1/16S304J RS1/16S0R0J RS1/16S103J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 213	RS1/16S103J	C 602	CEV4R7M35
R 214	RS1/16S123J	C 603	CCSQSL152J50
R 215	RS1/16S273J	C 604	CCSQSL152J50
R 216	RS1/16S273J	C 605	CEV470M6R3
R 217	RS1/16S681J	C 606	CKSRYB104K16
R 218	RS1/16S681J	C 607	CKSRYB104K16
R 309	RS1/16S473J	C 608	CKSRYB104K16
R 310	RS1/16S473J	C 609	CEV100M16
R 501	RS1/16S102J	C 610	CKSRYB104K16
R 502	RS1/16S681J	C 612	CKSRYB104K16
R 503	RS1/16S681J	C 701	CEV101M6R3
R 504	RS1/16S681J	C 702	CCH1300
R 505	RS1/16S681J	C 703	CKSQYB334K16
R 506	RS1/16S681J	C 801	CKSRYB103K25
R 511	RS1/16S0R0J	C 802	CKSRYB103K25
R 601	RS1/16S102J	C 901	CKSRYB472K50
R 602	RS1/16S102J	C 902	CKSYB475K10
R 603	RS1/16S223J	C 903	CKSRYB103K25
R 604	RS1/16S223J		
R 606	RS1/16S0R0J		
R 607	RS1/16S0R0J		
R 612	RA4C0R0J		
R 801	RS1/8S751J		
R 802	RS1/8S751J		
R 901	RS1/16S222J		
R 902	RS1/16S473J		
R 903	RS1/16S222J		
R 904	RS1/16S473J		
R 905	RN1/16SE1502D		
R 906	RS1/16S473J		
R 908	RS1/16S222J		
R 909	RS1/16S104J		
R 910	RS1/16S103J		
R 911	RS1/16S223J		
R 912	RS1/16S473J		
R 917	RS1/16S0R0J		
CAPACITORS		H Unit Number : CWX2358(DEH-P8100R/EW) Unit Name : Control Unit	
C 101	CCSRCH102J25	MISCELLANEOUS	
C 102	CKSQYB104K16	IC 201	IC
C 103	CEV101M6R3	IC 301	IC
C 104	CEV470M6R3	IC 602	IC
C 105	CKSQYB334K16	IC 701	IC
C 106	CKSQYB334K16	IC 901	IC
C 107	CKSQYB334K16	Q 101	Transistor
C 201	CKSQYB104K16	Q 901	Transistor
C 202	CEV101M6R3	D 801	Chip LED
C 203	CKSQYB104K16	D 802	Chip LED
C 204	CKSRYB332K50	TH 901	Thermistor
C 205	CKSQYB104K16	X 201	Ceramic Resonator 16.934MHz
C 206	CKSRYB392K50	X 901	Radiator 8.380MHz
C 207	CKSQYB224K16	S 801	Spring Switch
C 208	CCSRCH270J50	S 802	Spring Switch
C 209	CCSRCJ3R0C50	RESISTORS	
C 210	CCSRCH221J50	R 101	RS1/8S120J
C 211	CCSRCH101J50	R 102	RS1/8S100J
C 212	CKSRYB682K25	R 103	RS1/16S222J
C 213	CKSQYB104K16	R 201	RS1/16S104J
C 214	CKSRYB104K16	R 205	RS1/16S103J
C 215	CKSQYB104K16	R 206	RS1/16S393J
C 216	CKSRYB104K16	R 207	RS1/16S182J
C 217	CKSRYB104K16	R 208	RS1/16S304J
C 218	CKSRYB104K16	R 210	RS1/16S0R0J
C 219	CKSRYB104K16	R 212	RS1/16S103J
C 220	CKSRYB104K16	R 213	RS1/16S103J
C 223	CKSQYB471K50	R 214	RS1/16S123J
C 301	CEV101M10	R 215	RS1/16S273J
C 601	CEV4R7M35	R 216	RS1/16S273J
		R 217	RS1/16S681J
		R 218	RS1/16S681J
		R 309	RS1/16S473J
		R 310	RS1/16S473J
		R 501	RS1/16S102J
		R 502	RS1/16S681J
		R 503	RS1/16S681J
		R 504	RS1/16S681J
		R 505	RS1/16S681J
		R 506	RS1/16S681J
		R 511	RS1/16S0R0J
		R 601	RS1/16S102J
		R 602	RS1/16S102J
		R 603	RS1/16S223J
		R 604	RS1/16S223J
		R 606	RS1/16S0R0J

DEH-P9100R,P8100R

====Circuit Symbol and No.===Part Name	Part No.
R 607	RS1/16S0R0J
R 612	RA4C0R0J
R 801	RS1/8S751J
R 802	RS1/8S751J
R 901	RS1/16S222J
R 902	RS1/16S473J
R 903	RS1/16S222J
R 904	RS1/16S473J
R 905	RN1/16SE1502D
R 906	RS1/16S473J
R 908	RS1/16S222J
R 909	RS1/16S104J
R 910	RS1/16S103J
R 911	RS1/16S223J
R 912	RS1/16S473J
R 917	RS1/16S0R0J

CAPACITORS

C 101	CCSRCH102J25
C 102	CKSQYB104K16
C 103	CEV101M6R3
C 104	CEV470M6R3
C 105	CKSQYB334K16
C 106	CKSQYB334K16
C 107	CKSQYB334K16
C 201	CKSQYB104K16
C 202	CEV101M6R3
C 203	CKSQYB104K16
C 204	CKSRYB332K50
C 205	CKSQYB104K16
C 206	CKSRYB392K50
C 207	CKSQYB224K16
C 208	CCSRCH270J50
C 209	CCSRCJ3R0C50
C 210	CCSRCH221J50
C 211	CCSRCH101J50
C 212	CKSRYB682K25
C 213	CKSQYB104K16
C 214	CKSRYB104K16
C 215	CKSQYB104K16
C 216	CKSRYB104K16
C 217	CKSRYB104K16
C 218	CKSRYB104K16
C 219	CKSRYB104K16
C 220	CKSRYB104K16
C 223	CKSQYB471K50
C 301	CEV101M10
C 601	CEV4R7M35
C 602	CEV4R7M35
C 603	CCSQSL152J50
C 604	CCSQSL152J50
C 605	CEV470M6R3
C 606	CKSRYB104K16
C 607	CKSRYB104K16
C 608	CKSRYB104K16
C 609	CEV100M16
C 610	CKSRYB104K16
C 612	CKSRYB104K16
C 701	CEV101M6R3
C 702	CCH1300
C 703	CKSQYB334K16
C 801	CKSRYB103K25
C 802	CKSRYB103K25
C 901	CKSRYB472K50
C 902	CKSYB475K10
C 903	CKSRYB103K25

22μF/6.3V

====Circuit Symbol and No.===Part Name	Part No.
 Unit Number : Unit Name : Photo Unit	
Q 1	Photo-transistor
Q 2	Photo-transistor
	CPT230SX-TU
	CPT230SX-TU

Miscellaneous Parts List

M 1	Pickup Unit(Service)(P8)	CXX1285
M 2	Motor Unit(CARRIAGE)	CXB2190
M 3	Motor Unit(LOADING)	CXB2195
M 951	Motor Unit(SPINDLE)	CXB2562
	Motor (AUTO FLAP)	CXM1085

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 ► or ◀ 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.
- Powering Off/On resets the jump mode to "Single TR (91)", the RF AMP gain setting to 0 dB, and the automatic adjustment value to the initial value.

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 :

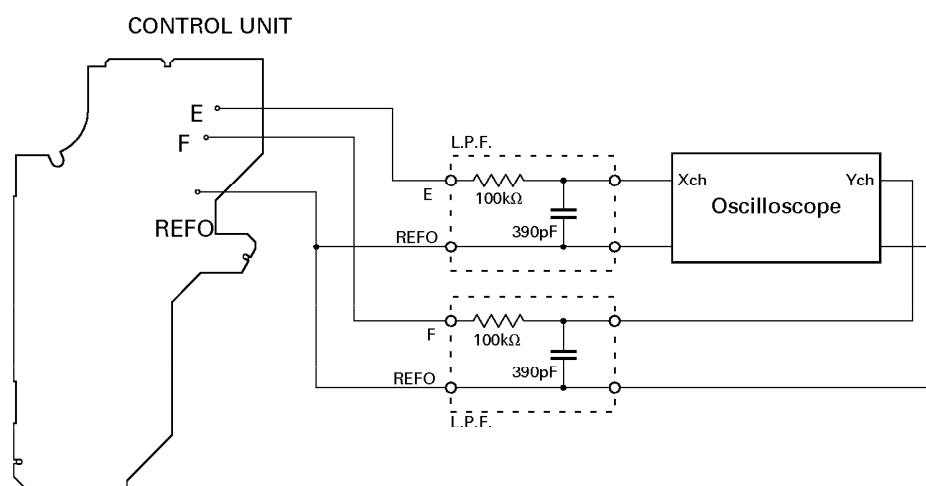
To check that the grating is within an acceptable range when the PU unit is changed.

• 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, REFO |
| • 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 ► and ◀ buttons, move the PU unit to the innermost track.
3. Press key **3** 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 **3** 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

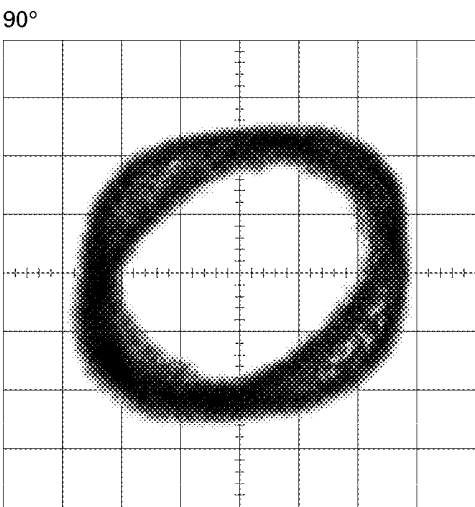
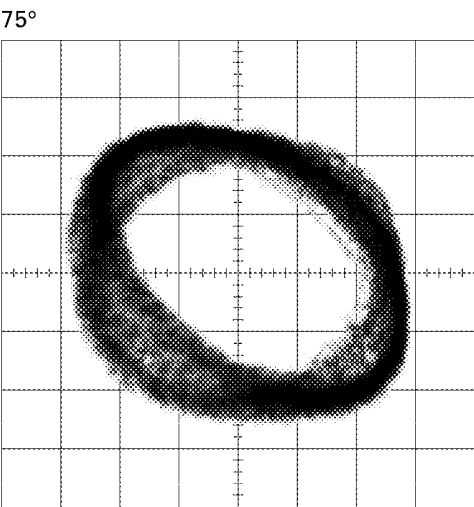
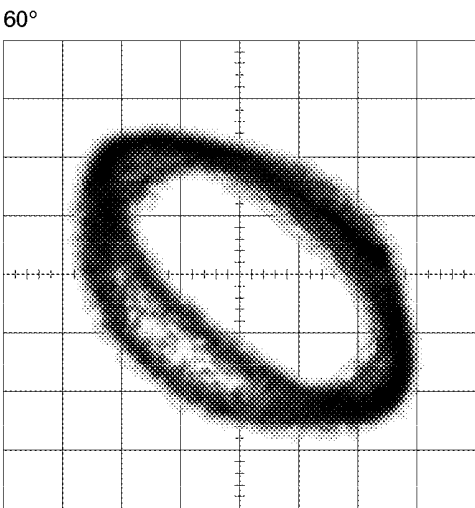
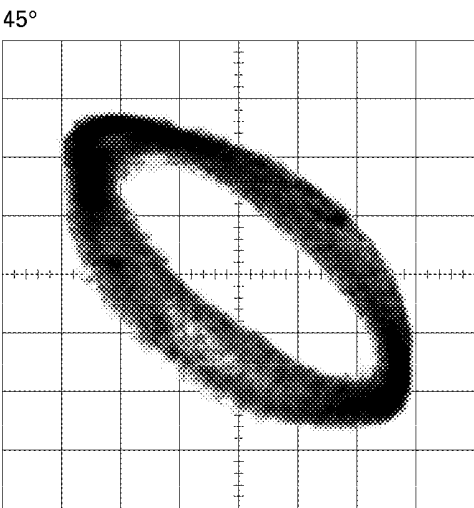
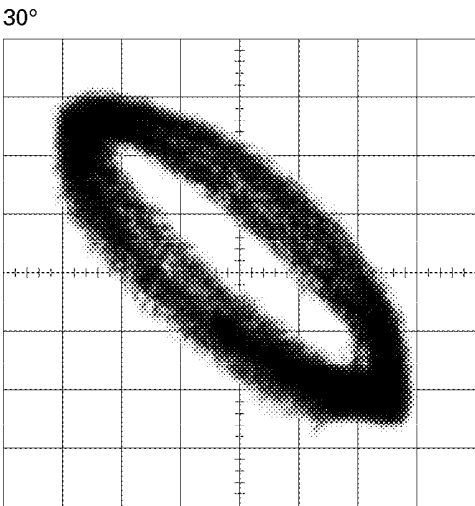
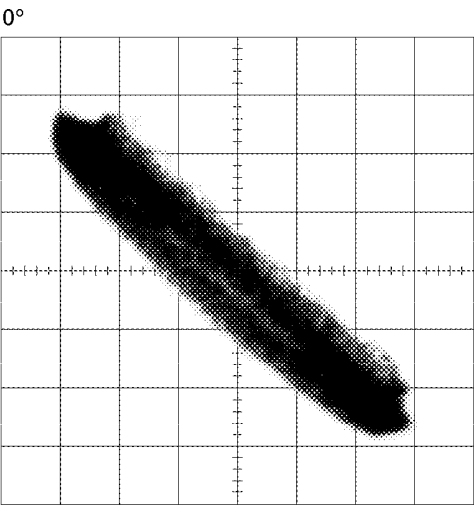
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• 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



7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

● Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

(1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

2) Main unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx
	OR	
	Err-xx	

(2) Error Code List

Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG	CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. → Failure on home switch or CRG move mechanism.
11	Electricity	Focus Servo NG	Focusing not available. → Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG Subcode NG RF AMP NG	Spindle not locked. Sub-code is strange (not readable). → Failure on spindle, stains or damages on disc, or excessive vibrations. A disc not containing CD-R data is found. Turned over disc are found, though rarely. → Failure on home switch or CRG move mechanism. An appropriate RF AMP gain can't be determined. → CD signal error.
17	Electricity	Setup NG	APC protection doesn't work. Focus can be easily lost. → Damages or stains on disc, or excessive vibrations.
30	Electricity	Search Time Out	Failed to reach target address. → CRG tracking error or damages on disc.
A0	System	Power Supply NG	Power (VD) is ground faulted. → Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

A newly designed main unit must conform to the example given above.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, 3x: Search relevant errors, Ax: Other errors.

● New Test Mode

S-CD plays the same way as before.

If an error such as off focus, spindle unlocking, unreadable sub-code, or sound skipping occurs after setup, its cause and time occurred (in absolute time) are displayed.

During setup, operational status of the control software (internal RAM: CPOINT) is displayed.

These displays and functions are prepared for enhancing aging in the servicing and efficiency of trouble analysis.

(1) Shifting to the New Test Mode

- ① Turn on the current test mode by starting the reset from the key (it varies between the products).
 - ② Select S-CD for the source through the specified procedure including use of the [SOURCE] key, and inserting the disc. Then, press the [6] key while maintaining the regulator turned off.
 - ③ After the above operations, the new test mode remains on irrespective of whether the S-CD is turned on or off.
You can reset the new test mode by turning on the reset start.
- * With some products, the new test mode can be reset through the same operations as that employed for shifting to the STBY mode (while maintaining the Acc turned off).

(2) Key Correspondence

Key	Test mode		New test mode	
	Power Off	Power On	In-play	Error Production
BAND	To power on (offset adjustment performed)	To power off	–	Time/Err.No. switching
▶	–	FWD-Kick	FF/TR+	–
◀	–	REV-Kick	REV/TR-	–
1	–	T.Close (AGC performed) /parameter display switching	Scan	–
2	RF AMP gain switching	Parameter display switching /T.BAL adjustment/T.Open	Mode	–
3	To power on (offset adjustment not performed)	F.Close/RF AGC/F.T.AGC	–	–
6	–	F.Mode switching /T.Close (no AGC)/Jump switching	Auto/Manu	T.No./Time switching

Note: Eject and CD on/off is performed in the same procedure as that for the normal mode.

(3) Cause of Error and Error Code

Code	Class	Contents	Description and cause
40	Electricity	Off focus detected.	FOK goes low. → Damages/stains on disc, vibrations or failure on servo.
41	Electricity	Spindle unlocked.	FOK = Low continued for 50 msec. → Damages/stains on disc, vibrations or failure on servo.
42	Electricity	Sub-code unreadable.	Sub-code was unreadable for 50 msec. → Damages/stains on disc, vibrations or failure on servo.
43	Electricity	Sound skipping detected.	Last address memory function was activated. → Damages/stains on disc, vibrations or failure on servo.

Note: Mechanical errors during aging are not displayed.

The error codes should be indicated in the same way as in the normal mode.

(4) Display of Operational Status (CPOINT) during Setup

Status No.	Contents	Protective action
00	CD+5V ON process in progress.	None
01	Servo LSI initialization (1/3) in progress.	None
02	Servo LSI CRAM initialization in progress.	None
03	Servo LSI initialization (2/3) in progress.	None
04	Offset adjustment (1/3) in progress.	None
05	Offset adjustment (2/3) in progress.	None
06	Offset adjustment (3/3) in progress.	None
07	FZD adjustment in progress.	None
08	Servo LSI initialization (3/3) in progress.	None
10	Carriage move to home position started.	None
11	Carriage move to home position started.	None
12	Carriage is moving toward inner diameter.	Specified 10 seconds has been passed or failure on home switch.
13	Carriage is moving toward outer diameter.	Specified 10 seconds has been passed or failure on home switch.
14	Carriage outer kick in progress.	None
15	Carriage outer diameter feed (1 second) in progress.	None
20	Servo close started.	None
21	Pre-processing for focus search started.	None
22	Spindle rotation and focus search started.	None
23	Waiting for focus close (XSI=Low).	Specified focus search time has been passed.
24	Standing by after focus close is over.	Specified focus search time has been passed.
25	Focus search preprocessing is in progress while setup protection is turned on.	None
26	Focus search preprocessing is in progress while focus recovery is turned on.	None
27	Wait time after focus close is set up.	Off focus.
28	Standing by after focus close is over.	Off focus.
29	Setup (1/2) before T balance adjustment is started.	Off focus.
30	Setup (2/2) before T balance adjustment is started.	Off focus.
31	T balance adjustment started.	Off focus.
32	T balance adjustment (1/2).	Off focus.
33	T balance adjustment (2/2).	Off focus.
34	Waiting for spindle rotation to end. Spindle rough servo.	Off focus.
35	Standing by after spindle rough servo is over.	Off focus.
36	RF AGC started.	Off focus.
37	RF AGC started.	Off focus.
38	RF AGC ending process in progress.	Off focus.
39	Tracking close in progress.	Off focus.
40	Standing by after tracking is closed. Carriage closing in progress.	Off focus.
41	Focus/tracking AGC started.	Off focus.
42	Focus AGC started.	Off focus.
43	Focus AGC in progress.	Off focus.
44	Tracking AGC in progress.	Off focus.
45	Standing by after focus/tracking AGC are over.	Off focus.
46	Spindle processes applicable servo.	Off focus.
47	Check for servo close is started.	Off focus.
48	Check of LOCK pin started.	Off focus or spindle not locked.
49	RF AGC started.	Off focus.
50	RF AGC in progress.	Off focus.
51	Standing by after RF AGC is over.	Off focus.

DEH-P9100R,P8100R

(5) Display Examples

1) During Setup (When status no. = 11)

TRK No.	MIN.	SEC.
11	11'	11"

2) During Operation (TOC read, TRK search, Play, FF and REV)

The same as in the normal mode.

3) When a Protection Error Occurred

Switch to the following displays (A) and (B) using the [BAND] switch:

(A) Error occurrence timing display in absolute time.

An example: Error occurred in 12th tune at 34'56" in absolute time.

TRK No.	MIN.	SEC.
12	34'	56"

(B) Error No. display

An example: Error #40 (Off focus is detected)

ERROR-40

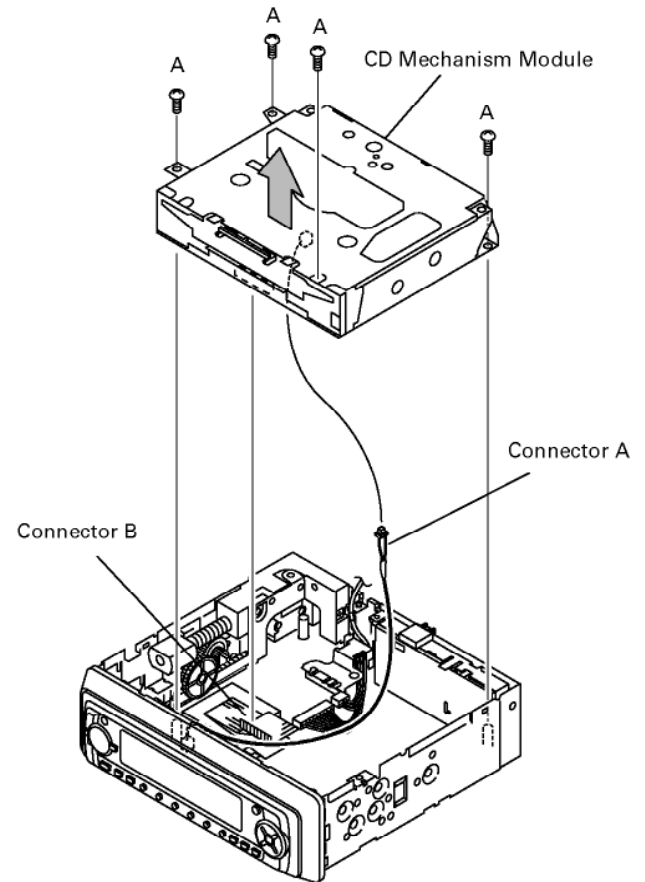
7.1.2 DISASSEMBLY

● Remove the Case (Not shown)

1. Remove the two screws, and then remove the Case.

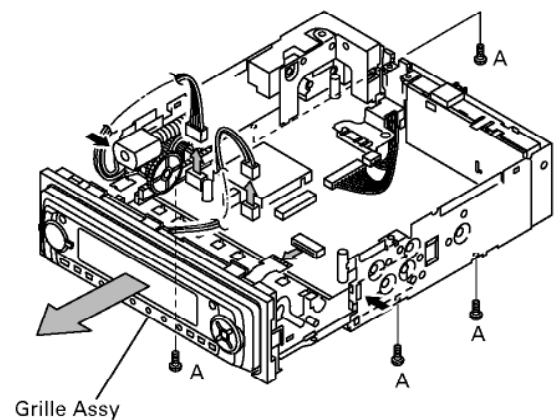
● Remove the CD Mechanism Module

1. Remove the four screws A.
2. Disconnect the connector A.(DEH-P9100R/EW)
3. Disconnect the connectors B, and then remove the CD Mechanism Module.



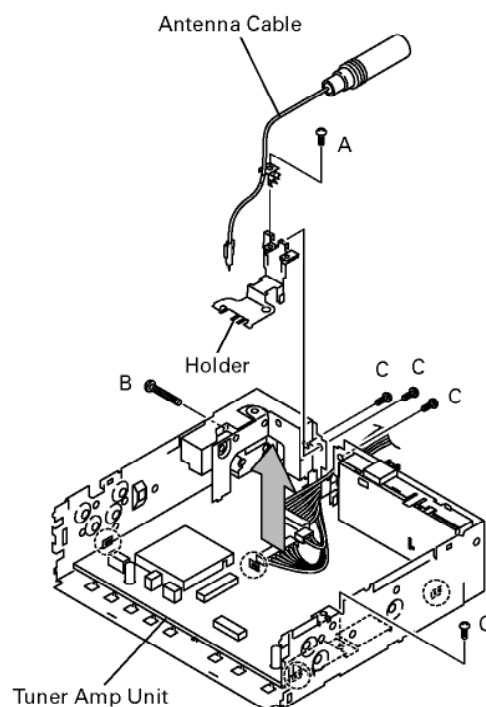
● Remove the Tuner Amp Unit (1/2)

1. Disconnect the three connectors.
2. Remove the four screws A.
3. Disconnect the two stoppers indicated by arrows, and then remove the Grille Assy.



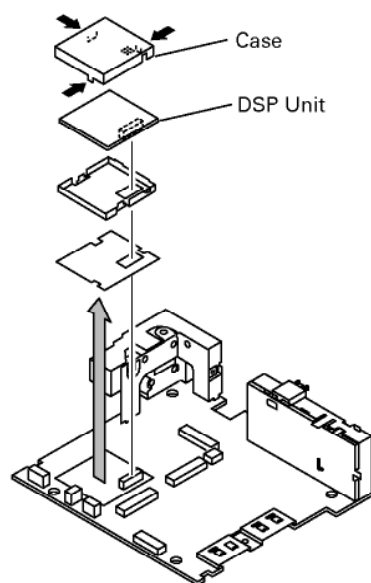
● Remove the Tuner Amp Unit (2/2)

1. Remove the screw A, four screws C, and then remove the Antenna Cable and Holder.
2. Remove the screw B.
3. Stretch the four tabs, and then remove the Tuner Amp Unit.



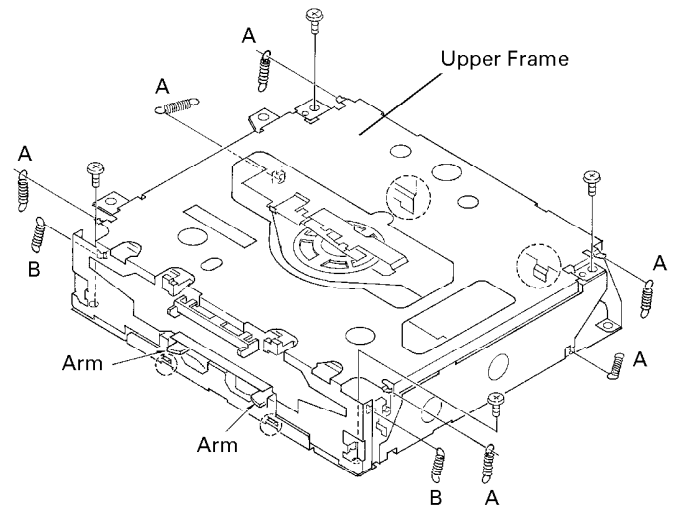
● Remove the DSP Unit(DEH-P9100R/EW)

1. Remove the three solder of tabs indicated by arrows, and then remove the Case.
2. Disconnect the connector, and then remove the DSP Unit.



● Removing the Upper Frame

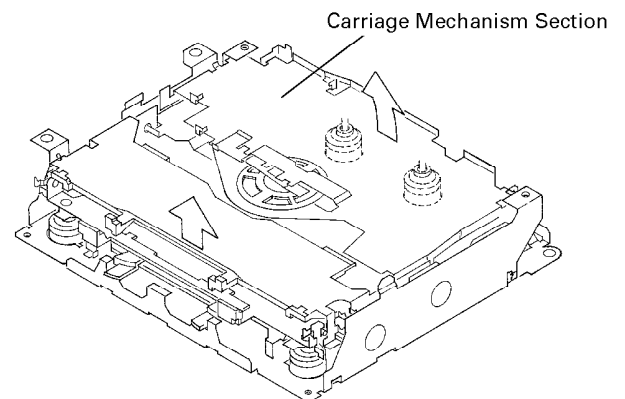
1. Remove six Springs A, two Springs B and four Screws.
2. Remove two Tabs situated on rear side of the Upper Frame, remove two Arms on the front side, then remove two Tabs on the front side.



● Removing the Carriage Mechanism

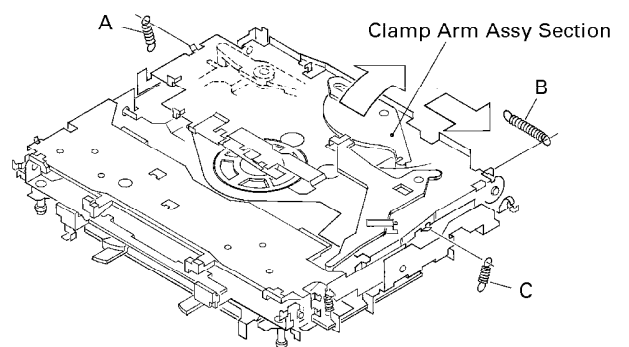
1. Disengage the Carriage Mechanism from the two dampers situated in the front side by driving it up, then disengage and remove the mechanism from the two dampers by driving it up aslant into front side direction.

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



● Removing the Clamp Arm Assy

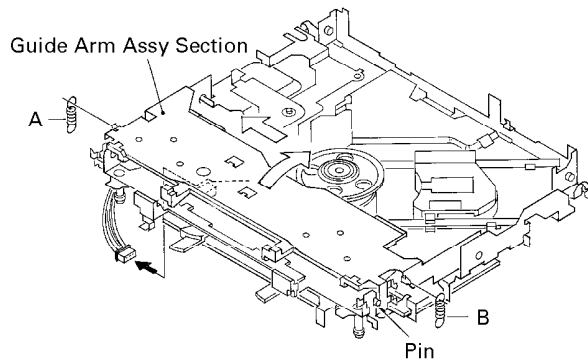
1. Remove a Spring A, a B and a Spring C.
2. Drive the Clamp Arm Assy up into rear side direction, then disengage the arm from its current position. Finally, drive the assembly approximately 45 degrees upward, then slide the assembly toward right side to remove it.



● Removing the Guide Arm Assy

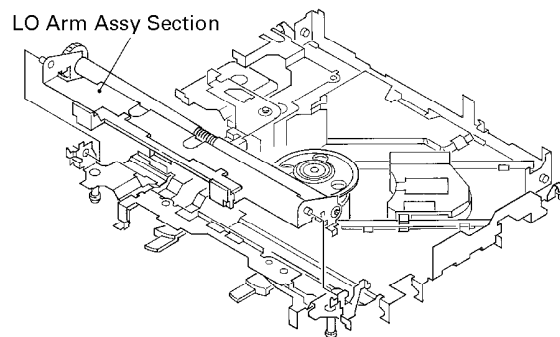
1. Remove a connector, a spring A and B
2. Drive the Guide Arm Assy up aslant into rear side direction, then remove it from a Pin. Finally, drive the assembly approximately 45 degrees upward, then slide the assembly toward left side to remove it.

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.



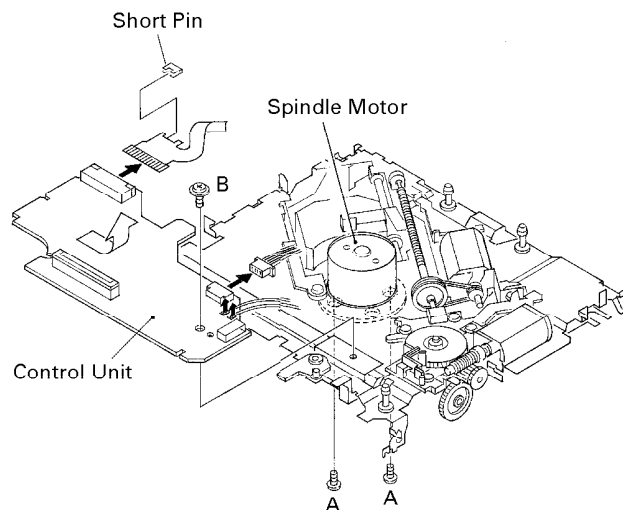
● Removing the LO Arm Assy

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



● Removing the Control Unit and the Spindle Motor

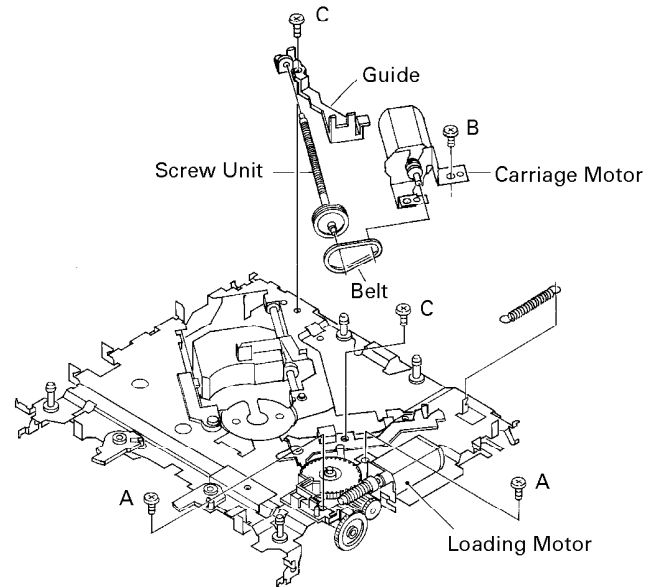
1. Remove from the connector after mounting the short pin on the flexible PCB of the pickup unit.
2. Remove two Soldered joints, then remove two Screws A.
3. Remove two connectors and a Screw B.
4. Disengage the Control Unit from two Tabs, then dismount the unit by sliding it toward left.
5. Dismount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



● Removing the Loading Motor and Carriage Motor

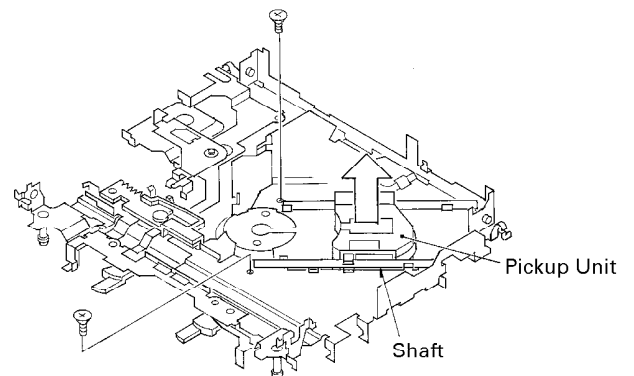
1. Remove the Spring and two Screws A.
2. Dismount the Loading Motor.
3. Remove the Belt, a Screw B, two Screws C, a Guide and a Screw Unit.
4. Dismount the Carriage Motor.

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



● Removing the Pickup Unit

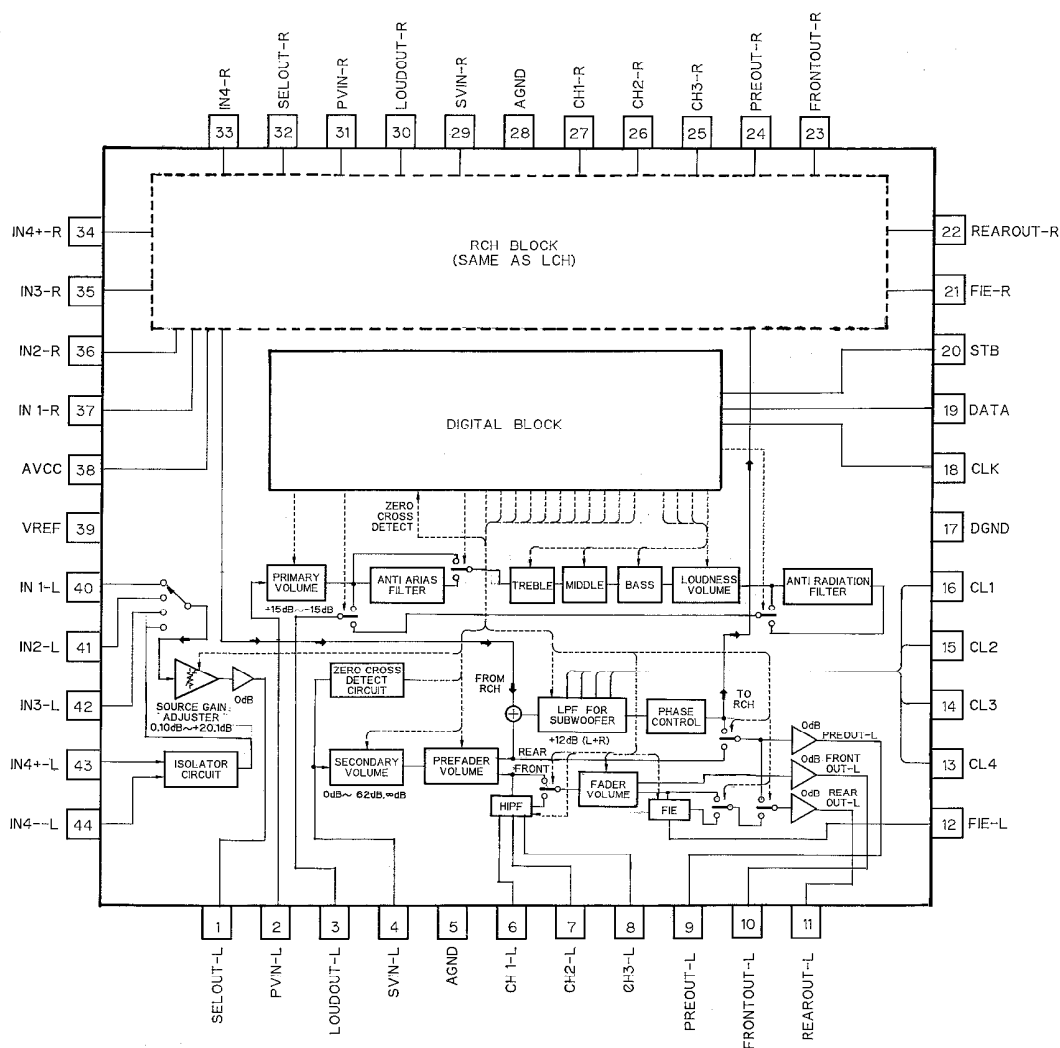
1. Remove two Screws and a Shaft.
2. Dismount the Pickup Unit.



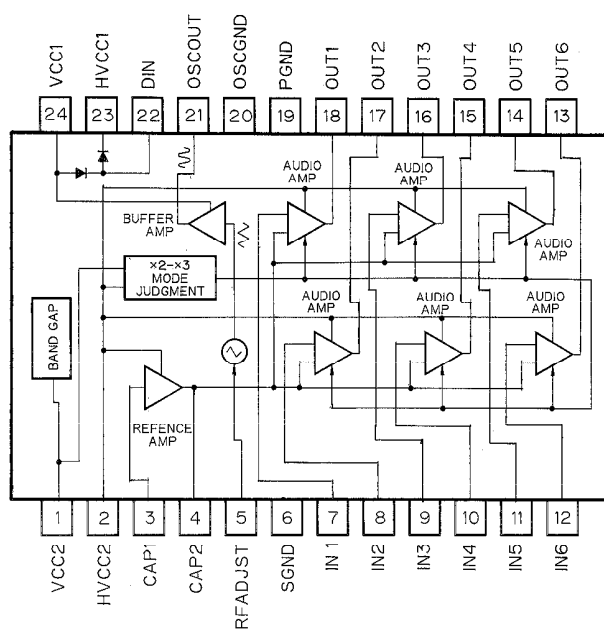
7.2 IC

PML004AF	PD5471A	TC9246F
PA2028A	PD8051A	HD74HCT126FP
S-81250SGUP	PD5504A	NJM4580M
PD5482C	AK7714	PE5011C
PD5486C	TC74HC393AF	PD0236AM

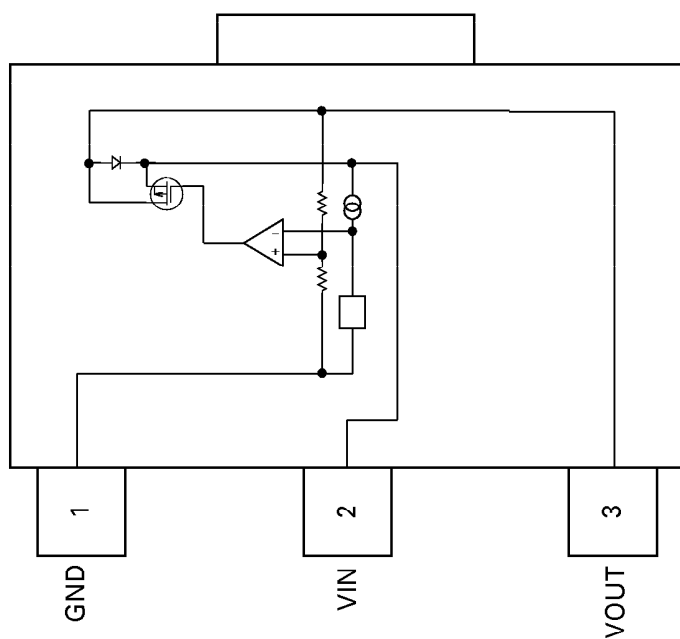
PML004AF



PA2028A

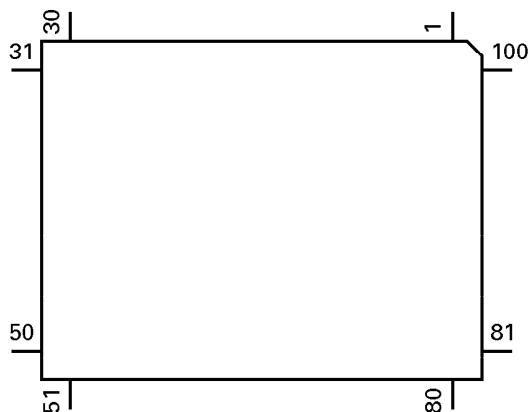


S-81250SGUP



DEH-P9100R,P8100R

*PD5482C



IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

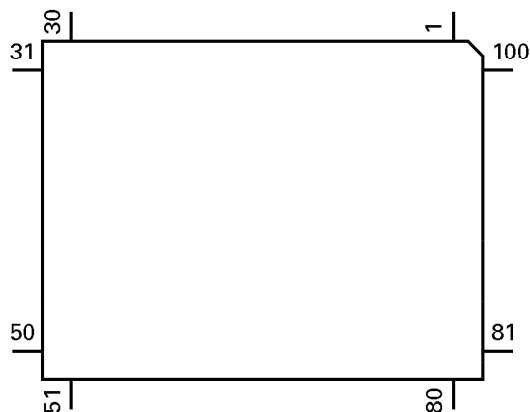
● Pin Functions (PD5482C)

Pin No.	Pin Name	I/O	Function and Operation
1	TUNPDO	O	PLL data output
2	TUNPCK	O	PLL clock output
3	TUNPCE	O	PLL chip enable output
4	TUNPCE2	O	PLL chip enable output 2
5,6	NC		Not used
7	IPPW	O	IP-BUS power supply control output
8,9	VSS1,2		GND
10	ASENBO	O	IP-BUS slave power supply control output
11	TELIN	I	Cellular mute input
12	RESET	I	Reset input
13	OSC1	O	Oscillator connection pin 1
14	VSS3		GND
15	OSC2	O	Oscillator connection pin 2
16	VCC1		5V
17	NMI	I	Pull up
18	RCK	I	RDS clock input
19	LDET	I	PLL lock sense input
20	DALMON	O	DFS alarm output
21	RX2	I	IP-BUS data input 2
22	SYSPW	O	System power supply control output
23	ISENS	I	Illumination sense input
24	PEE	O	Beep tone output
25	RDS57K	I	57kHzBP-OUT sense input
26	FLPPW	O	Flap motor driver power ON/OFF output
27	MUTE	O	Mute output
28	MICSENS	I	Microphone sense input
29	RX	I	IP-BUS data input
30	TX	O	IP-BUS data output
31	BSO	O	P-BUS communication data output
32	BSI	I	P-BUS communication data input
33	BSCK	I/O	P-BUS serial clock input/output
34	FLPOPEN	O	Flap motor open output
35	DPDT	O	Display serial data output
36	KYDT	I	Display enable data input
37	FLPCLS	O	Flap motor close output
38	FOPENSW	I	Flap open switch input
39	NC		Not used
40	FCLSSW	I	Flap close switch input
41	DLED	O	Alarm LED output
42	NC		Not used

Pin No.	Pin Name	I/O	Function and Operation
43	FLPILM	O	Inside of flap illumination output
44	ILMPW	O	Illumination power supply control output
45	SWVDD	O	Display chip select output
46	OELPW	O	OEL module power supply control output
47	DSSENS	I	Grille detach sense input
48	ST	I	FM stereo input
49	SD	I	SD input
50-61	NC		Not used
62	VCC3		5V
63	NC		Not used
64	VSS4		GND
65	VCK/ROMCLK	O	E-VOL clock output / ROM correction clock output
66	VDT/ROMDATA	O/I	E-VOL data output / ROM correction data input
67	VST/BSRQ2	O	E-VOL strobe pulse output / P-BUS communication input/output
68	NC		Not used
69	BRXEN	I/O	P-BUS communication input/output
70	BRST	O	P-BUS reset output
71	BSRQ	I/O	P-BUS communication request input/output
72	NC		Not used
73	BSENS	I	Back up power sense input
74	ASENS	I	ACC power sense input
75,76	NC		Not used
77	LOCH	O	Local "H" output
78	LOCL	O	Local "L" output
79	NC		Not used
80	ANTFIX	O	Open
81	FM/AM	O	FM/AM power select output
82	TMUTE	O	Tuner mute output
83	DRST	O	RDS decoder reset output
84	RDSLK	I	RDS lock signal input
85	RDT	I	RDS data input
86	DRSENS	I	Door open/close sense input
87	DRSYS	O	Door system select output
88	TESTIN	I	Test mode IN/test enable
89	NL2	I	RDS noise level input 2
90	CURRO	O	Tuner voltage FIX output
91-93	NC		Not used
94	SD_BW	I	SD input
95	NL	I	Noise level input
96	VSS5		GND
97	SL	I	Signal level input
98	VREF		A/D converter reference voltage
99	VCC4		5V
100	TUNPDI	I	PLL data input

DEH-P9100R,P8100R

*PD5486C



● Pin Functions (PD5486C)

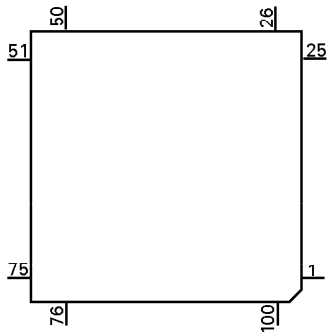
Pin No.	Pin Name	I/O	Function and Operation
1	TUNPDO	O	PLL data output
2	TUNPCK	O	PLL clock output
3	TUNPCE	O	PLL chip enable output
4	TUNPCE2	O	PLL chip enable output 2
5,6	NC		Not used
7	IPPW	O	IP-BUS power supply control output
8,9	VSS1,2		GND
10	ASENBO	O	IP-BUS slave power supply control output
11	TELIN	I	Cellular mute input
12	RESET	I	Reset input
13	OSC1	O	Oscillator connection pin 1
14	VSS3		GND
15	OSC2	O	Oscillator connection pin 2
16	VCC1		5V
17	NMI	I	Pull up
18	RCK	I	RDS clock input
19	LDET	I	PLL lock sense input
20	NC		Not used
21	RX2	I	IP-BUS data input 2
22	SYSPW	O	System power supply control output
23	ISENS	I	Illumination sense input
24	PEE	O	Beep tone output
25	RDS57K	I	57kHzBP-OUT sense input
26	FLPPW	O	Flap motor driver power ON/OFF output
27	MUTE	O	Mute output
28	NC		Not used
29	RX	I	IP-BUS data input
30	TX	O	IP-BUS data output
31	BSO	O	P-BUS communication data output
32	BSI	I	P-BUS communication data input
33	BSCK	I/O	P-BUS serial clock input/output
34	FLPOPEN	O	Flap motor open output
35	DPDT	O	Display serial data output
36	KYDT	I	Display enable data input
37	FLPCLS	O	Flap motor close output
38	FOPENSW	I	Flap open switch input
39	NC		Not used
40	FCLSSW	I	Flap close switch input
41	DLED	O	Alarm LED output
42	NC		Not used

Pin No.	Pin Name	I/O	Function and Operation
43	FLPILM	O	Inside of flap illumination output
44	ILMPW	O	Illumination power supply control output
45	SWVDD	O	Display chip select output
46	OELPW	O	OEL module power supply control output
47	DSSENS	I	Grille detach sense input
48	ST	I	FM stereo input
49	SD	I	SD input
50-61	NC		Not used
62	VCC3		5V
63	NC		Not used
64	VSS4		GND
65	VCK/ROMCLK	O	E-VOL clock output / ROM correction clock output
66	VDT/ROMDATA	O/I	E-VOL data output / ROM correction data input
67	VST	I	E-VOL strobe pulse output
68	NC		Not used
69	BRXEN	I/O	P-BUS communication input/output
70	BRST	O	P-BUS reset output
71	BSRQ	I/O	P-BUS communication request input/output
72	NC		Not used
73	BSENS	I	Back up power sense input
74	ASENS	I	ACC power sense input
75,76	NC		Not used
77	LOCH	O	Local "H" output
78	LOCL	O	Local "L" output
79	NC		Not used
80	ANTFIX	O	Open
81	FM/AM	O	FM/AM power select output
82	TMUTE	O	Tuner mute output
83	DRST	O	RDS decoder reset output
84	RDSLK	I	RDS lock signal input
85	RDT	I	RDS data input
86	DRSENS	I	Door open/close sense input
87	DRSYS	O	Door system select output
88	TESTIN	I	Test mode IN/test enable
89	NL2	I	RDS noise level input 2
90	CURRQ	O	Tuner voltage FIX output
91	LEVELR	I	Level meter "R" AD input
92	LEVELL	I	Level meter "L" AD input
93	NC		Not used
94	SD_BW	I	SD input
95	NL	I	Noise level input
96	VSS5		GND
97	SL	I	Signal level input
98	VREF		A/D converter reference voltage
99	VCC4		5V
100	TUNPDI	I	PLL data input

● Pin Functions (PD5471A)

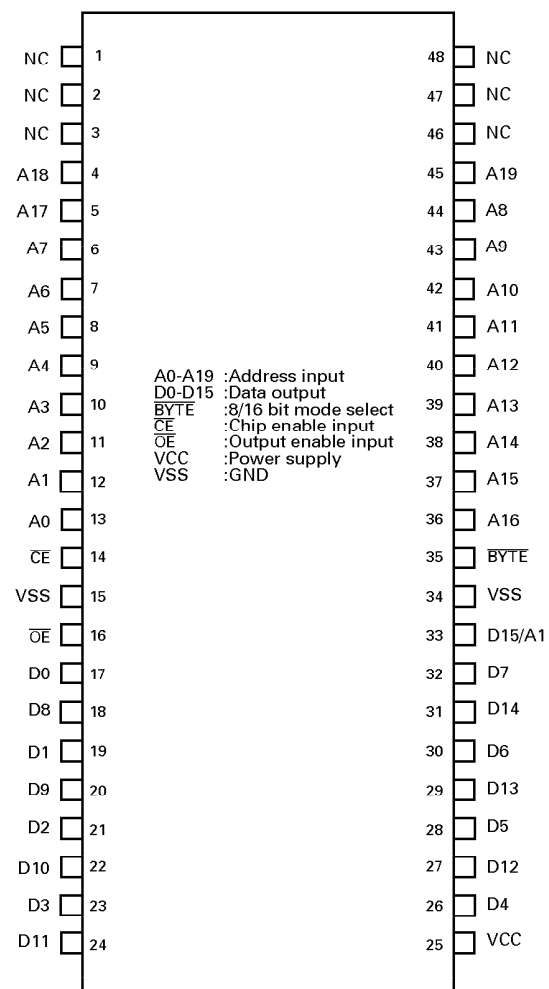
Pin No.	Pin Name	I/O	Format	Function and Operation
1-4	NC			Not used
5	REM	I		Remote control reception
6	BYTE	I		External data BUS width select input
7	CNVSS	I		Processor mode select input
8,9	NC			Not used
10	RESET	I		Reset input
11	XOUT	O		Crystal oscillating element connection pin
12	VSS			GND
13	XIN	I		Crystal oscillating element connection pin
14	VDD			VDD
15	NMI	I		NMI input
16	NC			Not used
17-20	KD1-4	I		Key data 1-4
21-26	KS1-6	I/O		Key strobe input/output 1-6
27-31	NC			Not used
32	ILMD	O	C	Dual illumination
33	KYDT	O	C	Key data output
34	DPDT	I		Display data input
35	NC			Not used
36	OEL	O	C	OEL controller ON
37	RDY	I		OEL controller ready input
38	NC			Not used
39	HOLD	I		Hold input
40,41	NC			Not used
42	RD	O	C	Read strobe
43	NC			Not used
44	WR	O	C	Write strobe
45	NC			Not used
46	CS2	O	C	Bank address (High)
47	CS1	O	C	Bank address (Low)
48	CS0	O	C	External ROM chip select
49	A19	O	C	Address bus Output
50	NC			Not used
51-59	A17-9	O	C	Address bus Output
60	VDD			VDD
61	A8	O	C	Address bus Output
62	VSS			GND
63-69	A7-1	O	C	Address bus Output
70	NC			Not used
71-86	D15-0	I/O		Data bus input/output
87-93	NC			Not used
94	AVSS			Connect to VSS
95	NC			Not used
96	VREF			Connect to VSS
97	AVCC			Connect to VCC
98-100	NC			Not used

*PD5471A

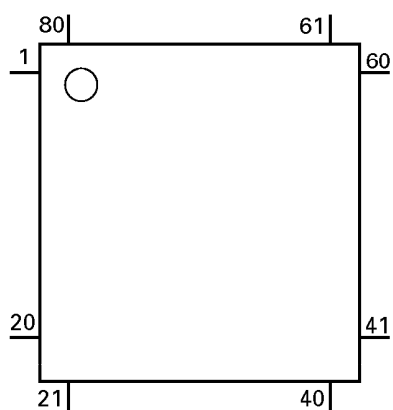


Format	Meaning
C	C MOS

PD8051A



*PD5504A



DEH-P9100R,P8100R

● Pin Functions (PD5504A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	NC			VSS joint
2	NC			Not used
3	VST	O	C	Electronic volume strobe output
4	VDT	O	C	Electronic volume data output
5	VCK	O	C	Electronic volume clock output
6	CNVSS	I		VSS joint
7	MCKRQ	I		CD unit MCK request input
8	EMPHIN	I		CD unit emphasis data input
9	RESET	I		Reset input
10	XOUT	O	O	Crystal oscillating element connection pin
11	VSS			GND
12	XIN	I		Crystal oscillating element connection pin
13	VCC			5V
14	NMI	I		NML joint
15	BMUTEIN	I		CD unit LR clock supply input
16	NC			VSS joint
17	BRST	I		P-BUS reset input
18-23	NC			Not used
24	DSPOUT	O	C	DSP serial data output
25	DSPIN	I		DSP serial data input
26	DSPCK	O	C	DSP serial clock output
27	NC			Not used
28	BSO	O	C	P-BUS serial data output
29	BSI	I		P-BUS serial data input
30	BSCK	I/O		P-BUS serial clock input/output
31	NC			Not used
32	BSRQ	I/O		P-BUS service request output pin
33	BRXEN	I/O		Reception enable input/output
34,35	NC			Not used
36	MICSENS	I		A.EQ microphone connection data input
37	IFHIZ	I		DSP microcomputer port Hiz set input
38	AQTEST	I		A.EQ test mode start input
39	TESTIN	I		Test mode IN/test enable input
40	DSPPW	O	C	Power supply for DSP
41	MUTERQ	O	C	Hard mute output
42	NGO	O	C	Digital zero output
43	SYSMUTE	O	C	System mute output
44-47	NC			Not used
48	PLLLOC	I		PLL Lock supply data input
49	PLLCLR	O	C	PLL control clear output
50	PLLDI	O	C	PLL control data output
51	PLLCK	O	C	PLL control clock output
52-57	NC			Not used
58	LRCKK	O	C	LRCK/BCLK select control output
59	MCKOUT	O	C	CD MCLK gate control
60	S.MODE	O	C	AK7714 master/slave select input
61	AKPD	O	C	AK7714 power down
62	AKRST	O	C	AK7714 reset
63	AKJMP	O	C	AK7714 condition jump
64	DSPCS	O	C	AK7714 chip select output
65	AKWRO	O	C	AK7714 data output request
66	DSPACK	I		DSP data write ready supply input
67	AKRDY	I		AK7714 data ready
68-72	NC			Not used
73	MDSEL2	I		Model select input
74	NOISE	I		ASL noise input
75	AVSS	I		A/D GND
76	NC			Not used
77	VREF	I		A/D converter reference voltage input
78	AVCC			A/D VCC
79	NC			VSS joint
80	NC			Not used

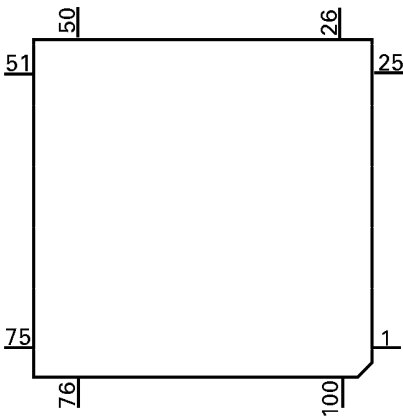
● Pin Functions (AK7714)

Pin No.	Pin Name	I/O	Function and Operation
1,2	NC		Not used
3-6	TEST	I	Test terminal 1-4
7	DVB		Power supply (5v)
8	NC		Not used
9	DVDD		Digital VDD (5V)
10,11	DVSS		Digital GND (0V)
12	SDINA	I	DSP serial data input
13	NC		Not used
14	SDOUTA	O	ADC serial data output
15	SDOUTD1	O	DSP serial data output
16	NC		Not used
17	SDINDI	I	DAC1 serial data input
18	SDIND2	I	DAC2 serial data input
19	NC		Not used
20	SDOUTD2	O	DSP serial data output
21,22	NC		Not used
23	SDIN1	I	DSP serial data input
24	SDIN2	I	DSP serial data input
25,26	NC		Not used
27	XTI	I	Oscillation input
28	XTO	O	Oscillation output
29	NC		Not used
30,31	DVSS		Digital GND (0V)
32,33	DVDD		Digital VDD (5V)
34	OPCL	I	ADC/DAC joint select input
35	CLKO	O	Clock output
36	LRCLK	I/O	L/R channel select input/output
37	BITCLK	I/O	Serial bit clock input/output
38	NC		Not used
39	DRDY	O	Output data ready output for microcomputer interface
40	SO	O	Serial data output for microcomputer interface
41	RDY	O	Data write ready output for microcomputer interface
42,43	DVSS		Digital GND (0V)
44,45	DVDD		Digital VDD (5V)
46	NC		Not used
47	WR $\bar{Q}$	I	Write request input for microcomputer interface
48	CS $\bar{S}$	I	Chip select input for microcomputer interface
49	JX	I	External condition Jump terminal
50-52	NC		Not used
53	SI	I	Serial data input for microcomputer interface
54	NC		Not used
55	SCLK	I	Serial data clock for microcomputer interface
56	NC		Not used
57	DSP RESET	I	Reset
58	CODE CRESET	I	Reset
59	INITRESE	I	Reset
60-62	NC		Not used
63	CKS0	I	Clock select input
64	CKS1	I	Clock select input
65	SMODE	I	Slave mode/master mode select input
66,67	DVSS		Digital GND (0V)
68	DVDD		Digital VDD (5V)
69	NC		Not used
70,71	DVB		Power supply (5v)
72	NC		Not used
73	AOUTR2	O	DAC2 Rch analog output

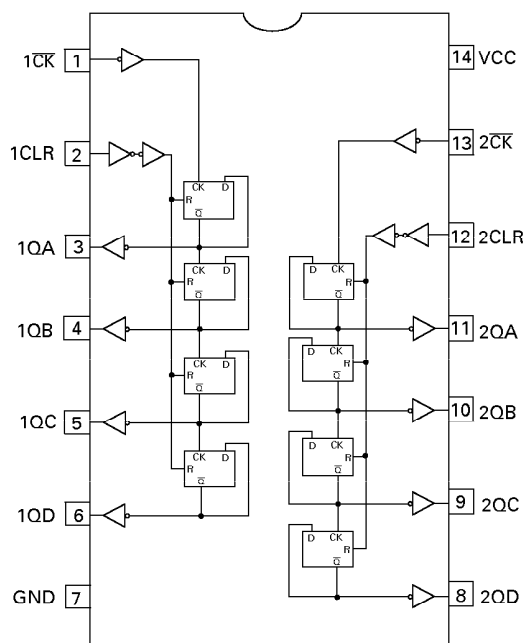
DEH-P9100R,P8100R

Pin No.	Pin Name	I/O	Function and Operation
74	AOUTL2	O	DAC2 Lch analog output
75,76	NC		Not used
77	AOUTR1	O	DAC1 Rch analog output
78	AOUTL1	O	DAC1 Lch analog output
79	NC		Not used
80	AVB		Power supply (5V)
81	NC		Not used
82	VRDAL	I	DAC reference voltage input
83	AVSS		Analog GND (0V)
84,85	AVDD		Analog power supply (5V)
86	VRDAH	I	DAC reference voltage input
87,88	VCOM	O	Common voltage
89	VRADL	I	ADC reference voltage input
90	AVSS		Analog GND (0V)
91,92	AVDD		Analog power supply (5V)
93	VRADH	I	ADC reference voltage input
94	NC		Not used
95	AINR-	I	ADC Rch analog inverted input
96	AINR+	I	ADC Rch analog input
97	NC		Not used
98	AINR-	I	ADC Rch analog inverted input
99	AINR+	I	ADC Rch analog input
100	NC		Not used

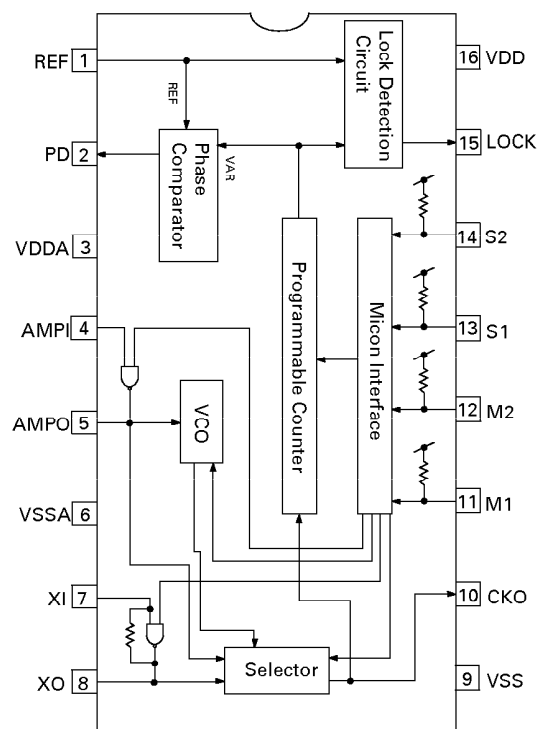
*AK7714



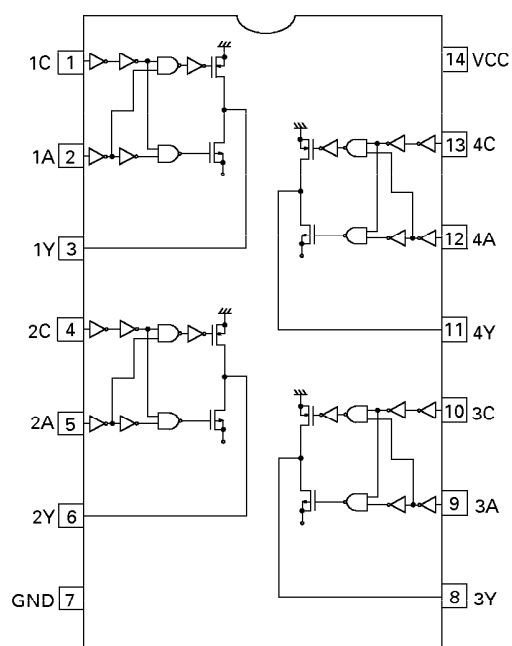
TC74HC393AF



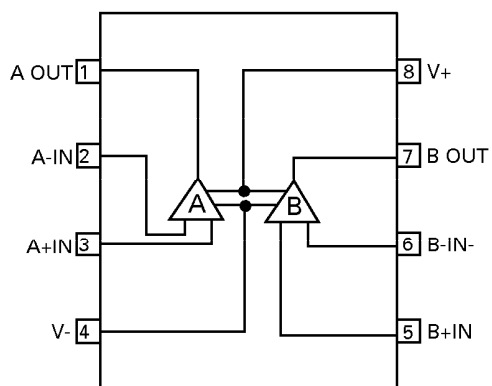
TC9246F



HD74HCT126FP



NJM4580M

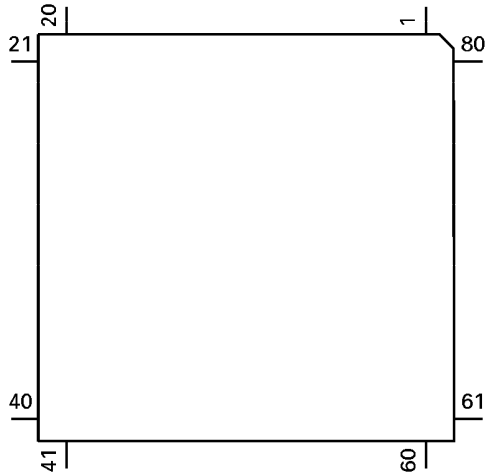


● Pin Functions(PE5011C)

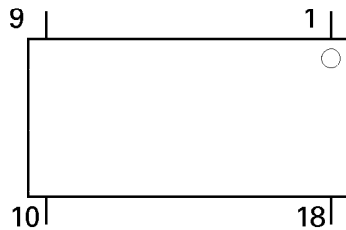
Pin No.	Pin Name	I/O	Format	Function and Operation
1	EJTSNS			Disc eject position sense input
2	DSCSNS			Disc insert position sense input
3	VDSSENS			VD power supply short sense input
4	TEMP			Temperature sense input
5-8	NC			Not used VSS
9	AVREF			A/D reference voltage input
10	RESET	I		System reset input
11	XT1	I		VDD
12	XT2			Open
13	IC(VPP)			VSS
14	X1	I		Main clock radiator(8.38MHz)connection
15	X2			Main clock radiator(8.38MHz)connection
16	VDD			Power supply(+5V)
17	VSS			GND
18	X $\overline{\text{SCK}}$	O	C	CD LSI serial clock output
19	XSO	O	C	CD LSI serial data output
20	XSI	I		CD LSI serial data input
21	BR $\overline{\text{ST}}$			P-Bus reset input
22	PACK			CD-TEXT pack sync signal input
23, 24	NC			Not used Open
25	XA0	O	C	CD LSI data discrimination control signal output
26	XSTB	O	C	CD LSI strobe output
27	X $\overline{\text{RST}}$	O	C	CD LSI reset output
28	FOK	I		Focus OK input
29	MIRR	I		Specular surface detection input
30	LOCK	I		Spindle lock input
31	CD5VON	O	C	CD +5V power supply control output
32, 33	NC			Not used Open
34	EMPH	O	C	Emphasis information output
35-44	NC			Not used Open
45	VSS			GND
46	VDD			Power supply(+5V)
47	ADENA	O	C	A/D reference voltage supply control output
48	VDCONT	O	C	VD power supply control output
49	NC			Not used Open
50	CSENS	I		Flap close sense input
51	BRXEN	I/O	/C	Input/output by which P-Bus can be received
52	BSR $\overline{\text{O}}$	O	C	P-Bus polling request output
53, 54	NC			Not used Open
55	CONT	O	C	Servo driver power supply control output
56	CDMUTE	O	C	CD mute control output
57	CDEJET	O	C	Load/Eject motor Eject control output
58	CDLOAD	O	C	Load/Eject motor Load control output
59	BMUTE	O	C	Bus mute output
60	CLAMP	I		Disc clamp input
61, 62	NC			Not used Open
63-66	NC			Not used VDD or VSS
67	TXARI	I		Tx output set selection input
68	F $\overline{\text{SCK}}$	O	C	Flash writing clock input(Open)
69	FTXD	O	C	Flash writing data output(Open)
70	FRXD	O	C	Flash writing data input(Open)
71	B $\overline{\text{SCK}}$	I/O	/C	P-Bus serial clock input/output
72	B $\overline{\text{DATA}}$	I/O	/C	P-Bus serial data input/output
73	TESTIN	I		Test program start input
74	NC			Not used Open
75	TSTB	O	C	CD-TEXT strobe output
76	NC			Not used Open

Pin No.	Pin Name	I/O	Format	Function and Operation
77	T $\overline{\text{SCK}}$	O	C	CD-TEXT serial clock output
78	TSO	O	C	CD-TEXT serial data output
79	TSI	I		CD-TEXT serial data input
80	AVSS			A/D GND

*PE5011C



PD0236AM



● Pin Functions (PD0236AM)

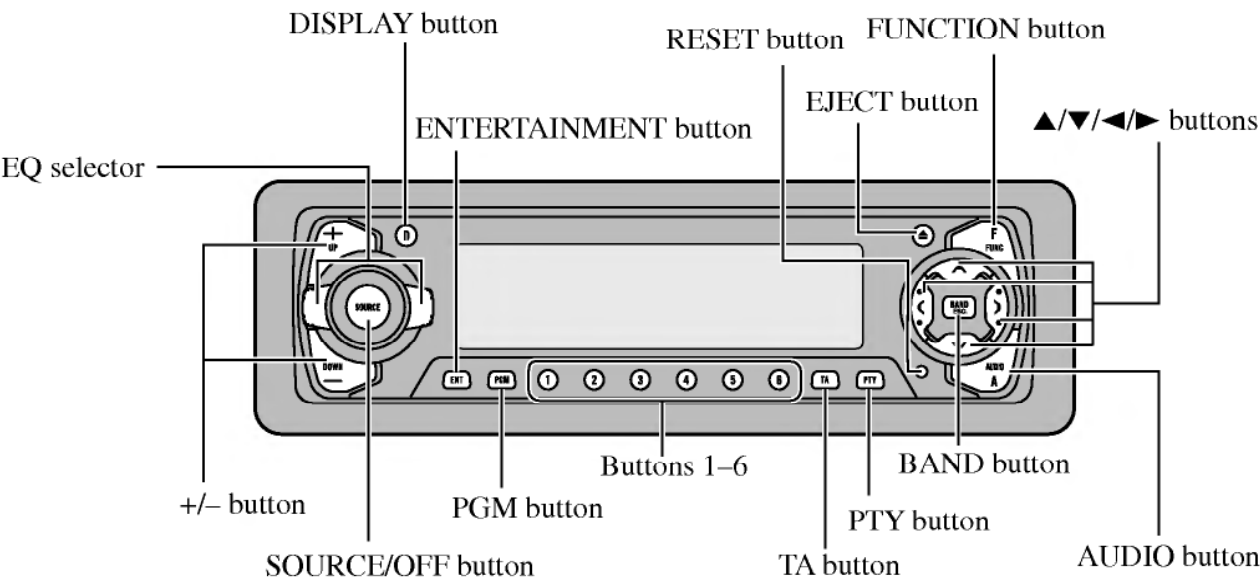
Pin No.	Pin Name	I/O	Function and Operation
1	BCSEL	I	Bit clock fs select
2	DASEL	I	Bit expand select
3	NC		Not used
4	LRSEL		LRCKO polarity select
5	LRCKO	O	LRCKO output
6	NC		Not used
7	BCKO	O	Bit clock output
8	DATAO	O	Data output
9	GND		GND
10	VDD		Power supply terminal
11	LRCKI	I	LRCKO input
12,13	NC		Not used
14	DATAI	I	Data input
15	BCKI	I	Bit clock input
16	NC		Not used
17	SEL	I	Bit expand/input data output select
18	XRST	I	Reset input

DEH-P9100R,P8100R

8. OPERATIONS AND SPECIFICATIONS

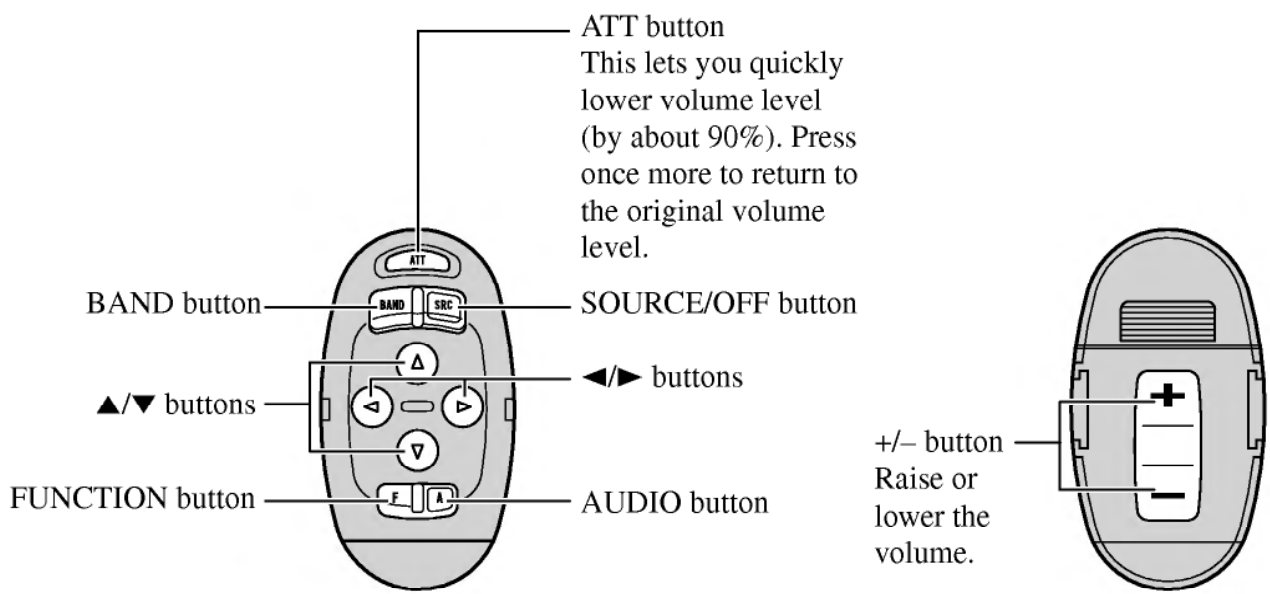
8.1 OPERATIONS

Head Unit



Steering Remote Controller

A steering remote controller that enables remote operation of the head unit is supplied. Operation is the same as when using buttons on the head unit.



To Listen to Music

The following explains the initial of operations required before you can listen to music.

Note:

- Loading a disc in this product.

1. Select the desired source (e.g. Tuner).



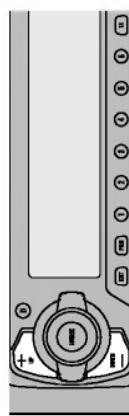
Each press changes the Source ...

Each press of the SOURCE/OFF button selects the desired source in the following order:
Built-in CD player (Compact Disc) → Tuner → DAB (Digital Audio Broadcasting) Tuner
→ Multi-MD player → Multi-CD player → External Unit → AUX

Note:

- External Unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this product. Only one External Unit can be controlled by this product.
- In the following cases, the sound source will not change:
 - * When a product corresponding to each source is not connected to this product.
 - * No disc is set in this product.
 - * No magazine is set in the Multi-CD player.
 - * No disc is set in the Multi-MD player.
 - * AUX (external input) is set to OFF.
- When this product's blue/white lead is connected to the car's Auto-antenna relay control terminal, the car's Auto-antenna extends when this product's source is switched ON. To retract the antenna, switch the source OFF.

2. Raise or lower the volume.



3. Turn the source OFF.



Hold for 1 second

Basic Operation of Tuner

This product's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

Manual and Seek Tuning

- You can select the tuning method by changing the length of time you press the ◀/▶ button.

Manual Tuning (step by step)	0.5 seconds or less
Seek Tuning	0.5 seconds or more

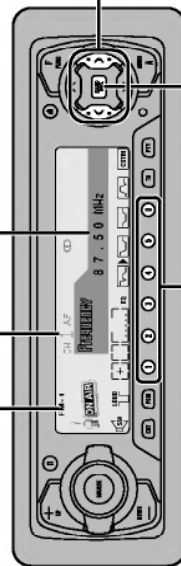
Note:

- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcast stations. Seek Tuning starts as soon as you release the button.
- Stereo indicator "Ⓢ" lights when a stereo station is selected.

Preset Number Indicator

Band Indicator

Frequency Indicator



Preset Tuning

- You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

Note:

- Up to 18 FM stations (6 in FM-1, FM-2 and FM-3) and 6 MW/LW stations can be stored in memory.
- You can also use the ▲ or ▼ buttons to recall broadcast stations memorized in buttons 1 through 6.

FM-1 → FM-2 → FM-3
→ MW/LW

Basic Operation of Built-in CD Player

Switching the Display

Each press of the DISPLAY button changes the display in the following order:
Playback mode (Play Time)
→ Disc Title

Note:

- If you switch a display when the disc title has not been input, "No Title" is displayed.

Eject

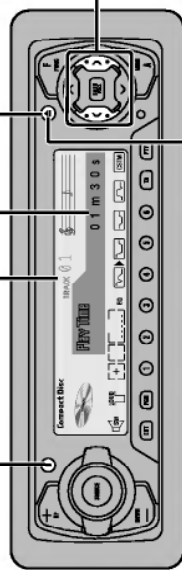
Press the EJECT button, and you can open the front panel before ejection.
In case of opening the front panel, you can just eject a CD.

Note:

- The CD function can be turned ON/OFF with the disc remaining in this product.
- A disc left partially inserted after ejection may incur damage or fall out.

Play Time Indicator

Track Number Indicator



Switching the Display (only for CD TEXT Discs)

Each press of the DISPLAY button changes the display in the following order:

Playback mode (Play Time) → Disc Title → Disc Artist → Track Title → Track Artist
With text longer than 20 letters, you can scroll to see the rest of the text by pressing the DISPLAY button for 2 seconds.

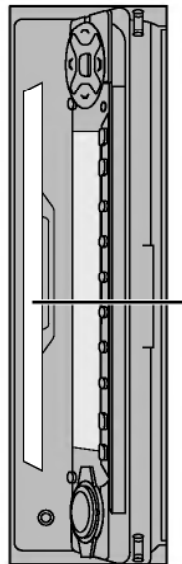
Note:

- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.
- If certain text information is not recorded on a CD TEXT disc, "No ~" (e.g. "No Title") is displayed.

Track Search and Fast Forward/Reverse

- You can select between Track Search or Fast Forward/Reverse by pressing the ◀/▶ button for a different length of time.

Track Search	0.5 seconds or less
Fast Forward/Reverse	Continue pressing



Disc Loading Slot

If a CD is inserted, the front panel is closed automatically.
The Built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Note:

- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the EJECT button and check the disc for damage before reinserting it.
- If the Built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display.

Open

Press the EJECT button for 1 second, and you can open the front panel without ejecting a CD.

In case of opening the front panel, you can close it.

Note:

- When opening the front panel, the 1 to 6 buttons are not available.

WARNING:

- Do not use with the front panel left open. If you do leave it open, it may result in injury in the event of an accident.

Basic Operation of Multi-CD Player

This product can control a Multi-CD player (sold separately).

Switching the Display

Each press of the DISPLAY button changes the display in the following order:
Playback mode (Play Time)
→ Disc Title

Note:

- If you switch displays when disc titles have not been input, "No Title" is displayed.

Track Search and Fast Forward/Reverse

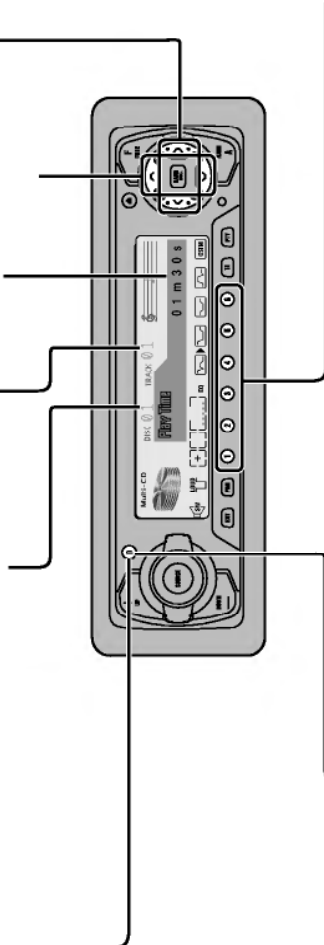
- You can select between Track Search or Fast Forward/Reverse by pressing the ◀/▶ button for a different length of time.

Track Search	0.5 seconds or less
Fast Forward/Reverse	Continue pressing

Track Number Indicator

Disc Number Indicator

Play Time Indicator



Switching the Display (When playing a CD TEXT disc on a CD TEXT compatible Multi-CD Player)

Each press of the DISPLAY button changes the display in the following order:
Playback mode (Play Time) → Disc Title → Disc Artist → Track Title → Track Artist
With text longer than 20 letters, you can scroll to see the rest of the text by pressing the DISPLAY button for 2 seconds.

Note:

- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.
- If certain text information is not recorded on a CD TEXT disc, "No ~" (e.g. "No Title") is displayed.
- You cannot switch to the Disc Title Input mode in the Detailed Setting Menu.

Disc Number Search (for 6-Disc, 12-Disc types)

- You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds.

Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

- Select the desired block with the 1 to 5 buttons.

Note:

- After completing a rough search, use the ▲ and ▼ buttons to select a desired disc.

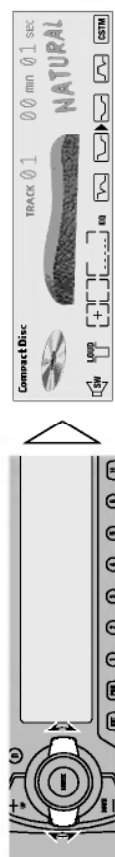
Note:

- The Multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.
If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using the ITS function. (If you try and use this function, "Not Ready" is displayed.)
If this happens, reading of information begins again when you switch to a component other than the 50-Disc Type Multi-CD Player.
- If the Multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the Multi-CD Player Owner's Manual.
- If there are no discs in the Multi-CD player magazine, "No Disc" is displayed.
- "LOADING" will be displayed in the following cases:
* If the disc in the extra tray is selected.
* If the disc is moved from the extra tray to the magazine.
(Refer to the 50-Disc Type Multi-CD Player Owner's Manual.)
- You cannot use the "Ejecting a Single Disc", "Frequency Play", "Music Group Play" or "ABC Disc Title Search" functions with this product.

Selecting the Equalizer Curve

You can switch between Equalizer curves.

- Rotate the EQ selector up or down to select the desired Equalizer curve.



SUPER BASS ↔ POWERFUL ↔ NATURAL ↔ CUSTOM ↔ FLAT

Note:

- "CUSTOM" stores an equalizer curve you have made adjustments to.
- You can create different "CUSTOM" curves for different sources. (The Built-in CD player and Multi-CD player are set to the same Equalizer Curve Adjustment setting automatically.)

Entering the Audio Menu 1

With this menu, you can adjust the sound quality.

Note:

- After entering the Audio Menu 1, if you do not perform an operation within about 30 seconds, the Audio Menu 1 is automatically canceled.
- Audio Menu 1 functions change depending on the Rear Speaker Output setting in the Initial Setting Menu.

1. Select the desired mode in the Audio Menu 1.



Each press changes the Mode ...

2. Operate a mode.
3. Cancel the Audio Menu 1.



Audio Menu 1 Functions

The Audio Menu 1 features the following functions.

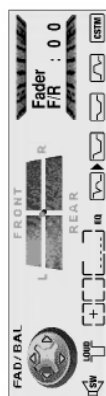
Balance Adjustment (FAD/BAL)

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. Press the AUDIO button and select the Fader/Balance mode (FAD/BAL) in the Audio Menu 1.

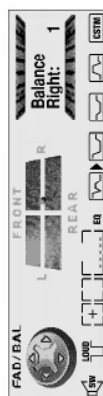
2. Adjust front/rear speaker balance with the ▲/▼ buttons.

"Fader Front: 15" – "Fader Rear: 15" is displayed as it moves from front to rear.



3. Adjust left/right speaker balance with the ◀/▶ buttons.

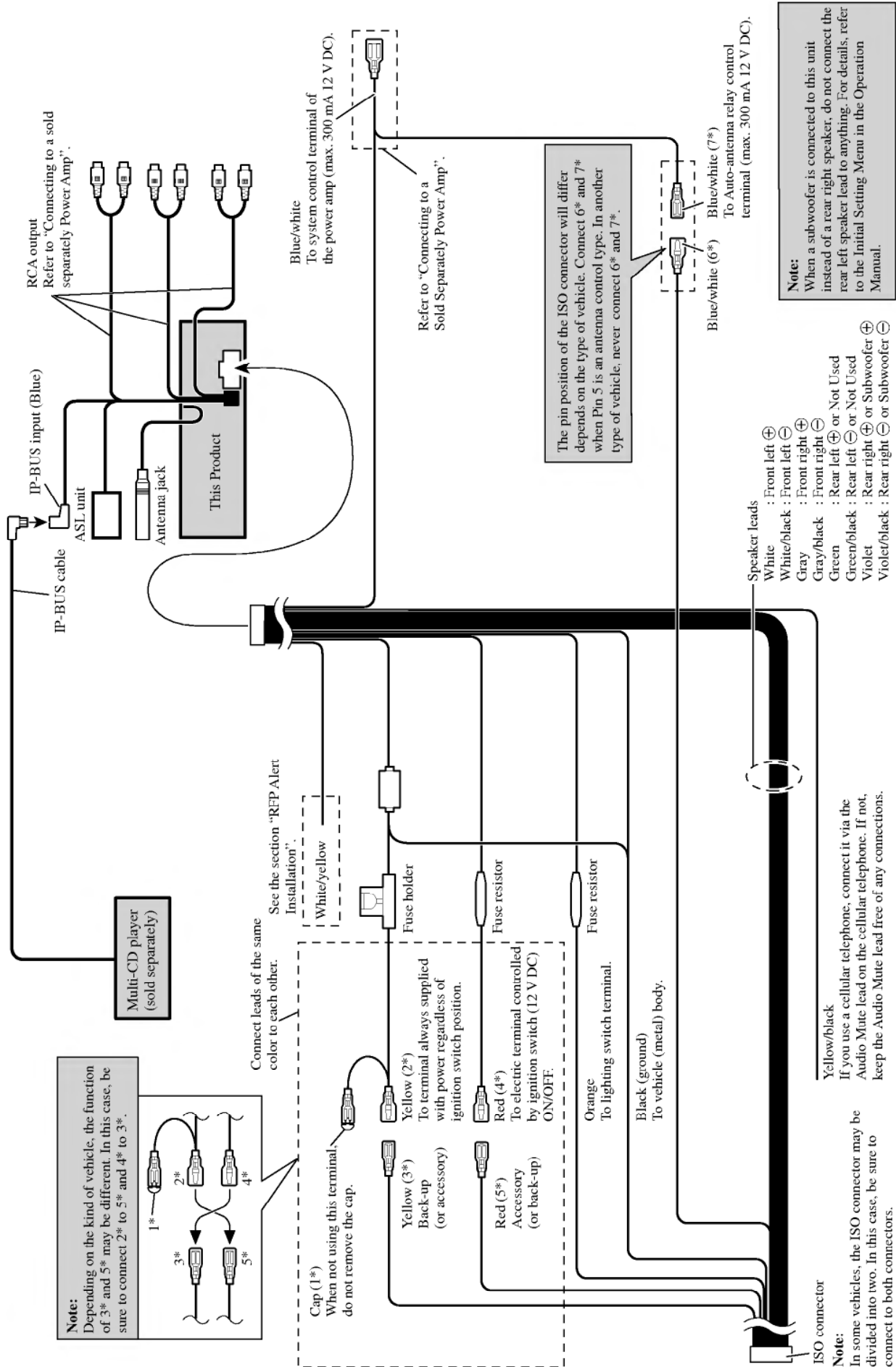
"Balance Left: 9" – "Balance Right: 9" is displayed as it moves from left to right.



Note:

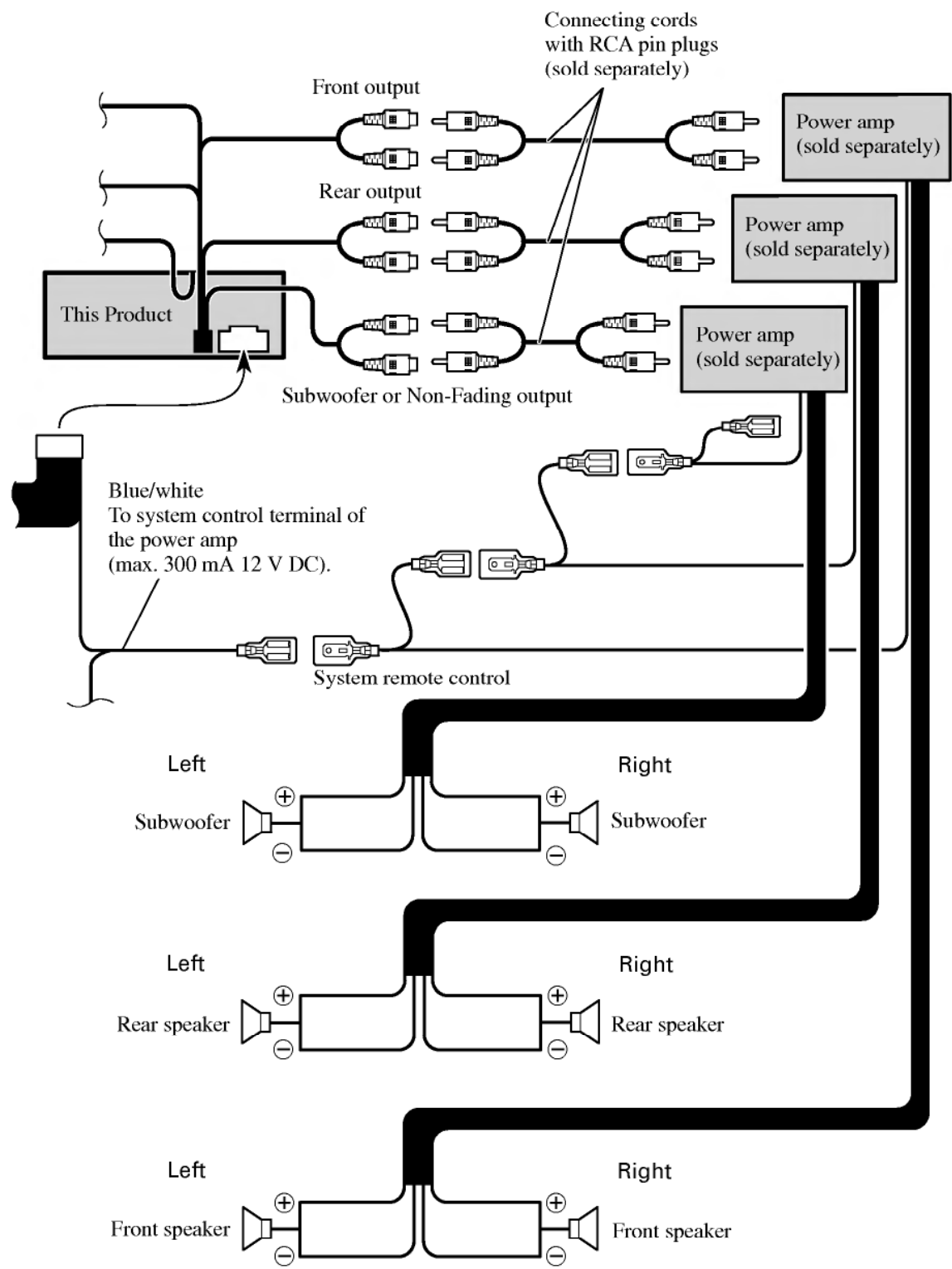
- When the Rear Speaker Output setting is "Sub woofer output", you cannot adjust front/rear speaker balance.
- "Fader F/R: 0 0" is the proper setting when 2 speakers are in use.

Basic Connection



■ Connecting to a Sold Separately Power Amp

This product can be connected to a sold separately power amp using the RCA output jacks.



8.2 SPECIFICATIONS

● DEH-P9100R/EW

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 157 (D) mm
(front face)	188 (W) × 58 (H) × 20 (D) mm
Weight	1.8 kg

Audio/DSP

Maximum power output	45 W × 4
45 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for Subwoofer)	
Continuous power output	27 W × 4
(DIN45324, +B = 14.4 V)	
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout maximum output	
level/output impedance	4.0 V/100 Ω
Loudness contour	
(Low)	+3.5 dB (100 Hz), +3 dB (10 kHz)
(Mid)	+10 dB (100 Hz), +6.5 dB (10 kHz)
(High)	+11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)	
Equalizer (13-Band Graphic Equalizer)	
Frequency	50/80/125/200/315/500/800 Hz
1.3/2/3.2/5/8/12.5 kHz	
Equalization range	±12 dB (2 dB)
Auto Equalizer (Front & Rear & Subwoofer 13-Band Graphic)	
Frequency	50/80/125/200/315/500/800 Hz
1.3/2/3.2/5/8/12.5 kHz	
Equalization range	+6 — –12 dB (2 dB)
Network	
HPF	
Frequency	50/80/125 Hz
Slope	–12 dB/oct.
Subwoofer	
Frequency	50/80/125 Hz
Slope	–18 dB/oct.
Gain	±12 dB
Phase	Normal/Reverse

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz
Number of quantization bits: 20; linear	
Frequency characteristics	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio	110 dB (1 kHz) (IEC-A network)
Dynamic range	94 dB (1 kHz)
Number of channels	2 (stereo)

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 (9 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner

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

Note:

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

● DEH-P8100R/EW

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 157 (D) mm
(front face)	188 (W) × 58 (H) × 20 (D) mm
Weight	1.8 kg

Audio

Maximum power output	45 W × 4
45 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for Subwoofer)	
Continuous power output	27 W × 4
(DIN45324, +B = 14.4 V)	
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout maximum output	
level/output impedance	4.0 V/100 Ω
Equalizer (3-Band Parametric Equalizer)	
(Low)	Frequency: 40/80/100/160 Hz
Q Factor: 0.35/0.59/0.95/1.15	
(+6 dB when boosted)	
Gain: ±12 dB	
(Mid)	Frequency: 200/500/1k/2k Hz
Q Factor: 0.35/0.59/0.95/1.15	
(+6 dB when boosted)	
Gain: ±12 dB	
(High)	Frequency: 3.15k/8k/10k/12.5k Hz
Q Factor: 0.35/0.59/0.95/1.15	
(+6 dB when boosted)	
Gain: ±12 dB	
Loudness contour	
(Low)	+3.5 dB (100 Hz), +3 dB (10 kHz)
(Mid)	+10 dB (100 Hz), +6.5 dB (10 kHz)
(High)	+11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)	
HPF	
Frequency	50/80/125 Hz
Slope	–12 dB/oct.
Subwoofer	
Frequency	50/80/125 Hz
Slope	–18 dB/oct.
Gain	±12 dB
Phase	Normal/Reverse

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear	
Frequency characteristics	5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio	95 dB (1 kHz) (IEC-A network)
Dynamic range	94 dB (1 kHz)
Number of channels	2 (stereo)

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 (9 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner

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

Note:

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