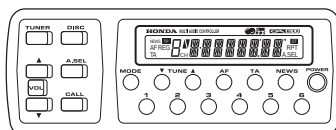


Service Manual

Pioneer

HONDA

CD-R1546ZH/EW



**ORDER NO.
CRT2366**

MULTI-CD CONTROL RDS TUNER AMPLIFIER

SCU-M2096ZH X1B/€W

CD-R1546ZH €W

VEHICLE	DESTINATION	PRODUCED AFTER	HONDA PART No.	ID No.	PIONEER MODEL No.
Motorcycles (Dealer option)	EUROPE	March 1999	08A01-MBL-800-01	—	SCU-M2096ZH/X1B/€W
			08A01-MBL-800-03	—	CD-R1546ZH/€W

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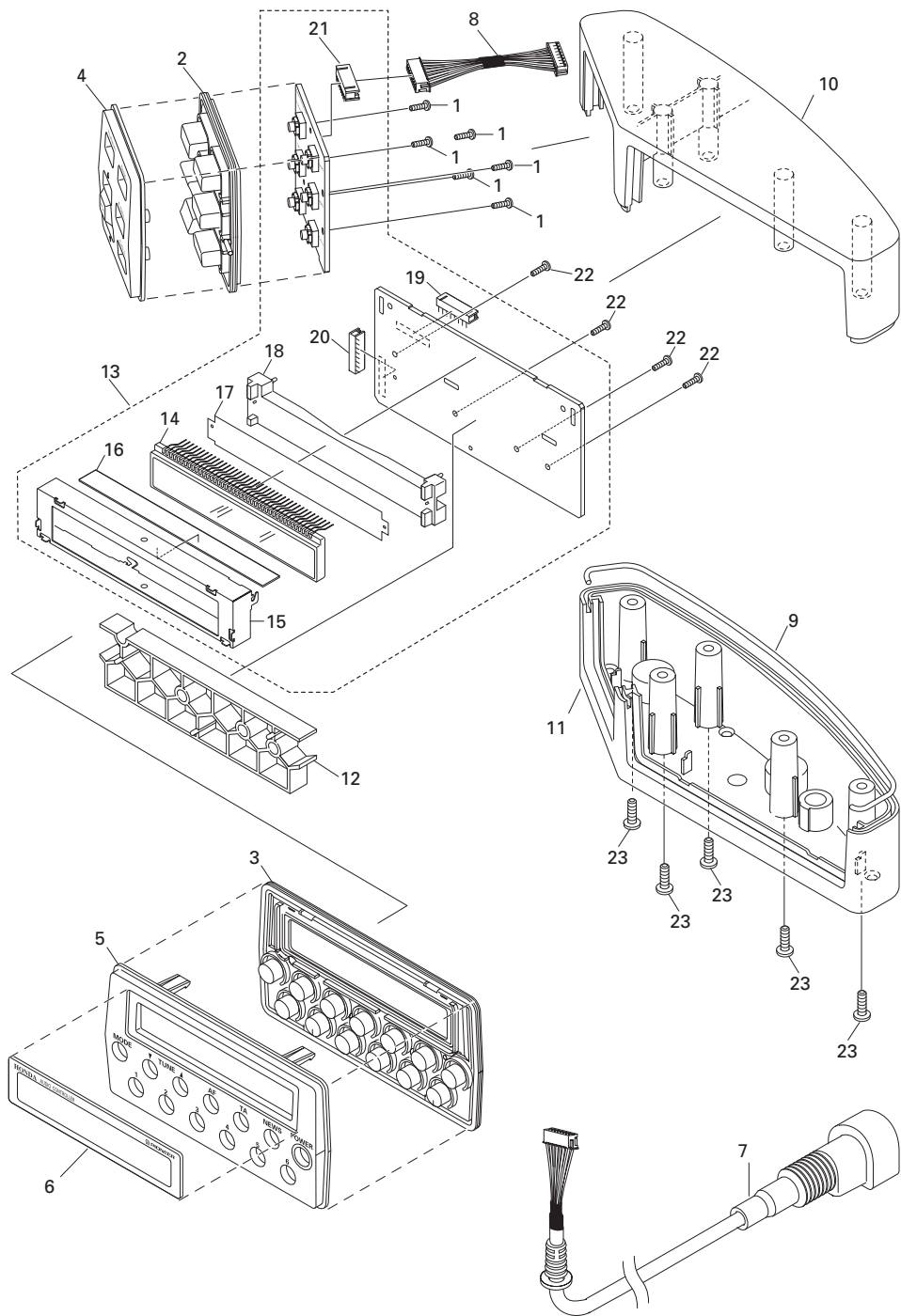
PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

1. SAFETY INFORMATION

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

2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR(CD-R1546ZH)



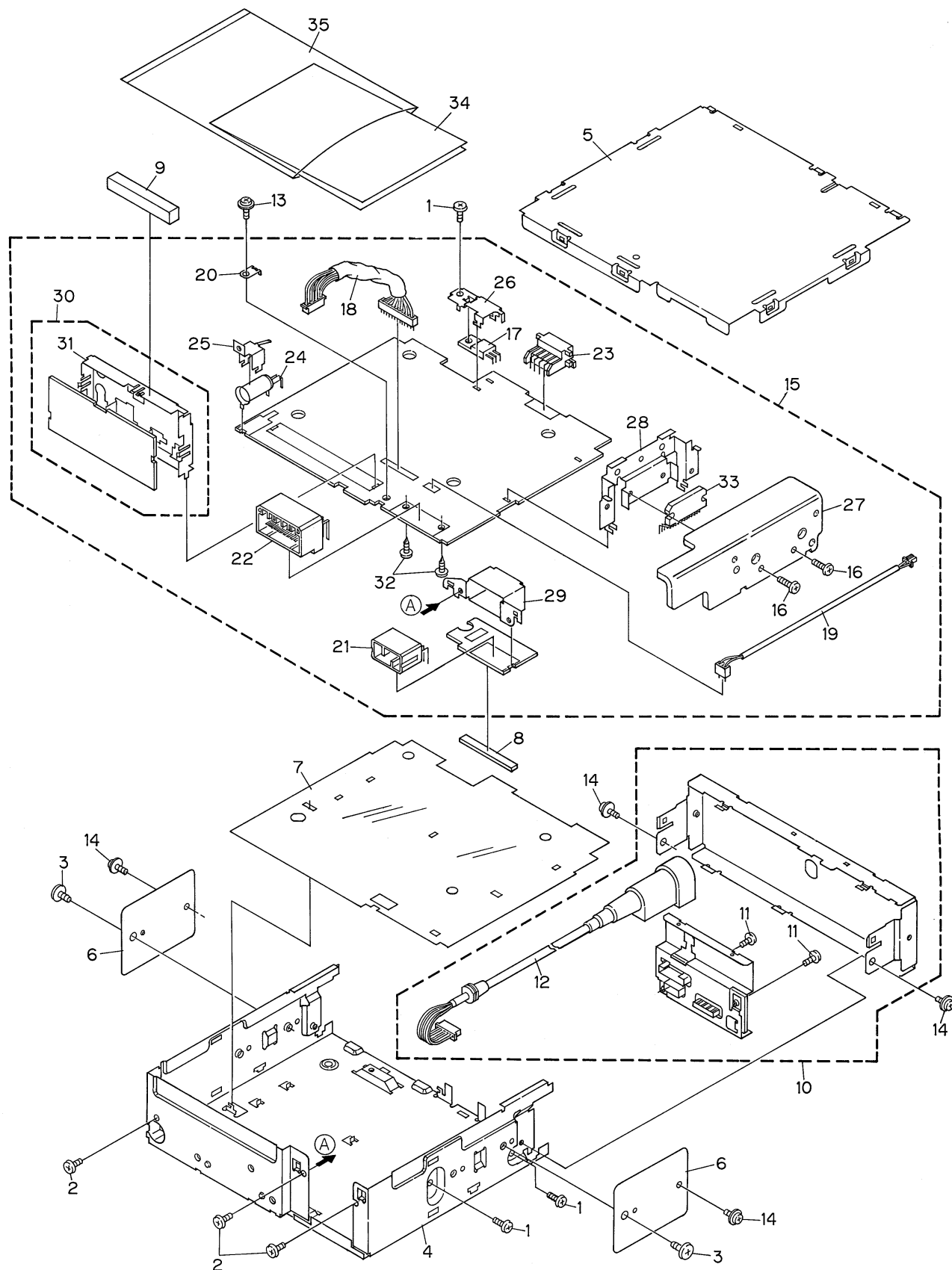
NOTE:

- 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.

● EXTERIOR SECTION PARTS LIST(CD-R1546ZH)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BPZ20P060FMC	16	Insulator	CNM4735
2	Button	CZA6071	17	Plate	CNM5712
3	Button	CZA6072	18	Lighting Conductor	CNV5318
4	Panel	CZA6073	19	Connector(CN951)	CZK2075
5	Panel	CZA6074	20	Connector(CN952)	CZK2075
6	Panel	CZA6075	21	Connector(CN991)	CZK2075
7	Cord Assy	CZD3300	22	Screw	PPZ20P080FMC
8	Connector Assy	CZD6001	23	Screw	PPZ30P140FZK
9	O Ring	CZE3241			
10	Case	CZN7580			
11	Case	CZN7581			
12	Frame	CZN7582			
13	Control Unit	CZW6018			
14	LCD	CAW1358			
15	Holder	CNC7667			

2.2 EXTERIOR(SCU-M2096ZH)

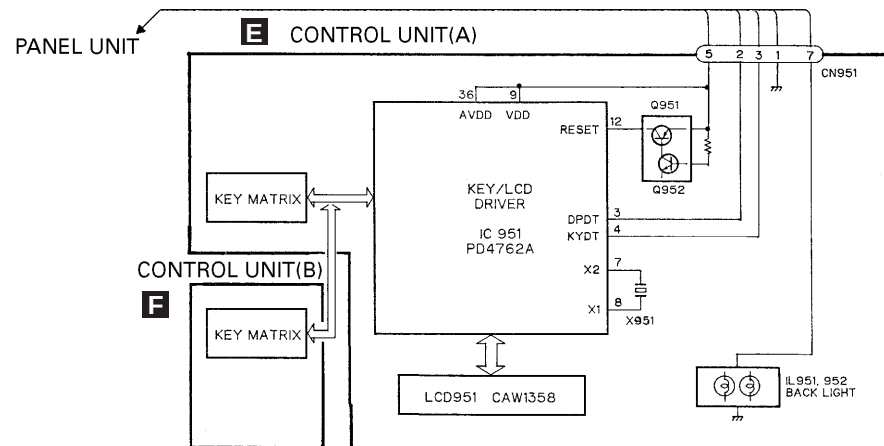


● EXTERIOR SECTION PARTS LIST(SCU-M2096ZH)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ26P080FMC	26	Holder	CNC5013
2	Screw	BMZ30P050FMC	27	Heat Sink	CNC6453
3	Screw	BMZ50P060FMC	28	Holder	CNC6454
4	Chassis	CNA2180	29	Holder	CNC7668
5	Case	CNB2058	30	FM/AM Tuner Unit	CWE1416
6	Holder	CNC8448	31	Holder	CNC6555
7	Insulator	CNM5713	32	Screw	PRZ30P060FSN
8	Spacer	CNM5874	33	IC(IC551)	TDA7385
9	Spacer	CNM6371	34	Owner's Manual	URD2925
10	Panel Unit	CXB3999	35	Polyethylene Bag	UEG1116
11	Screw	BMZ26P060FMC			
12	Cord Assy	CZD3298			
13	Screw	IMS26P050FMC			
14	Screw	IMS30P050FMC			
15	Tuner Amp Unit	UWM6489			
16	Screw	BMZ26P140FMC			
17	Transistor(Q917)	2SB942A			
18	Cord Assy(CN601)	CDE5607			
19	Cord	CDE5982			
20	Terminal(CN552)	CKF1059			
21	Connector(CN603)	CKM1208			
22	Plug(CN551)	CKM1283			
23	Connector(CN651)	CKS3581			
24	Antenna Jack(ANT501)	CKX1006			
25	Holder	CNC4569			

● Owner's Manual

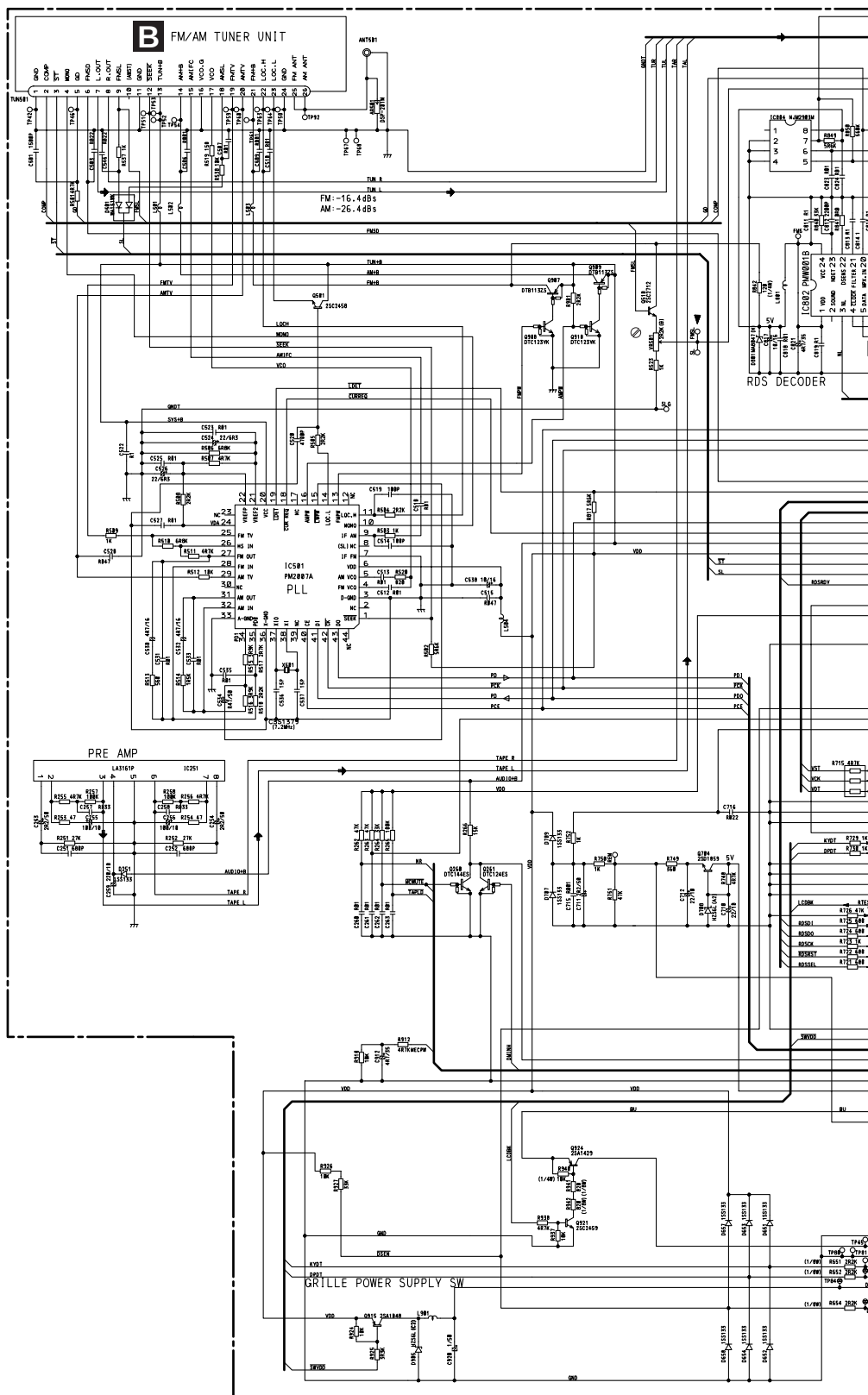
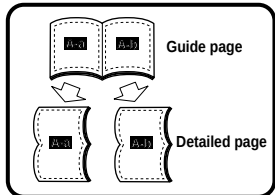
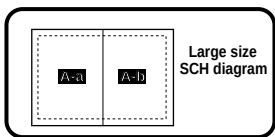
Model	Part No.	Language
SCU-M2096ZH/X1B/EW	URD2925	English,French, German,Dutch, Spanish,Portuguese, Italian,Swedish



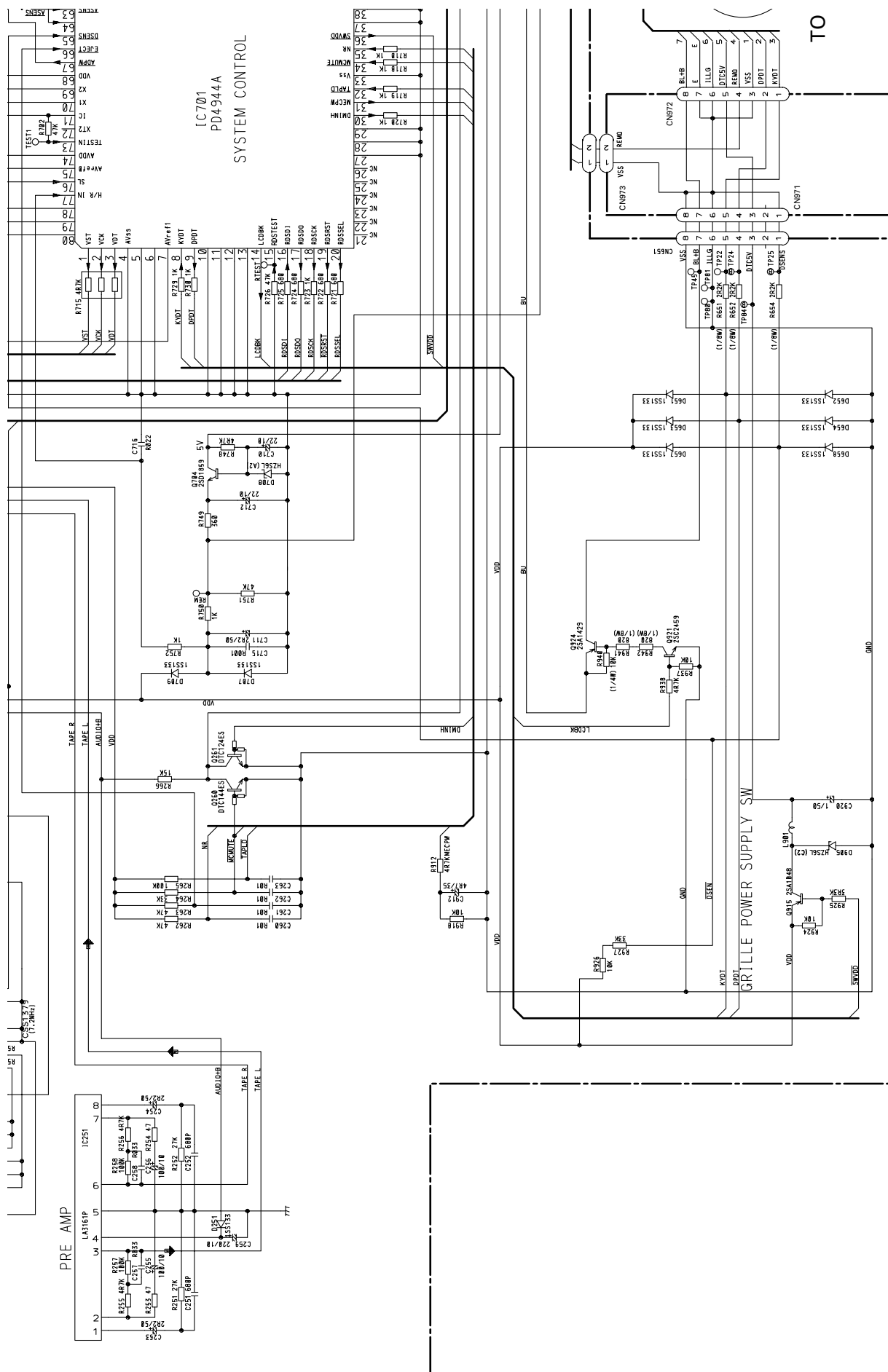
3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)(SCU-M2096ZH)

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

A-a







D PANEL UNIT

A-a

A

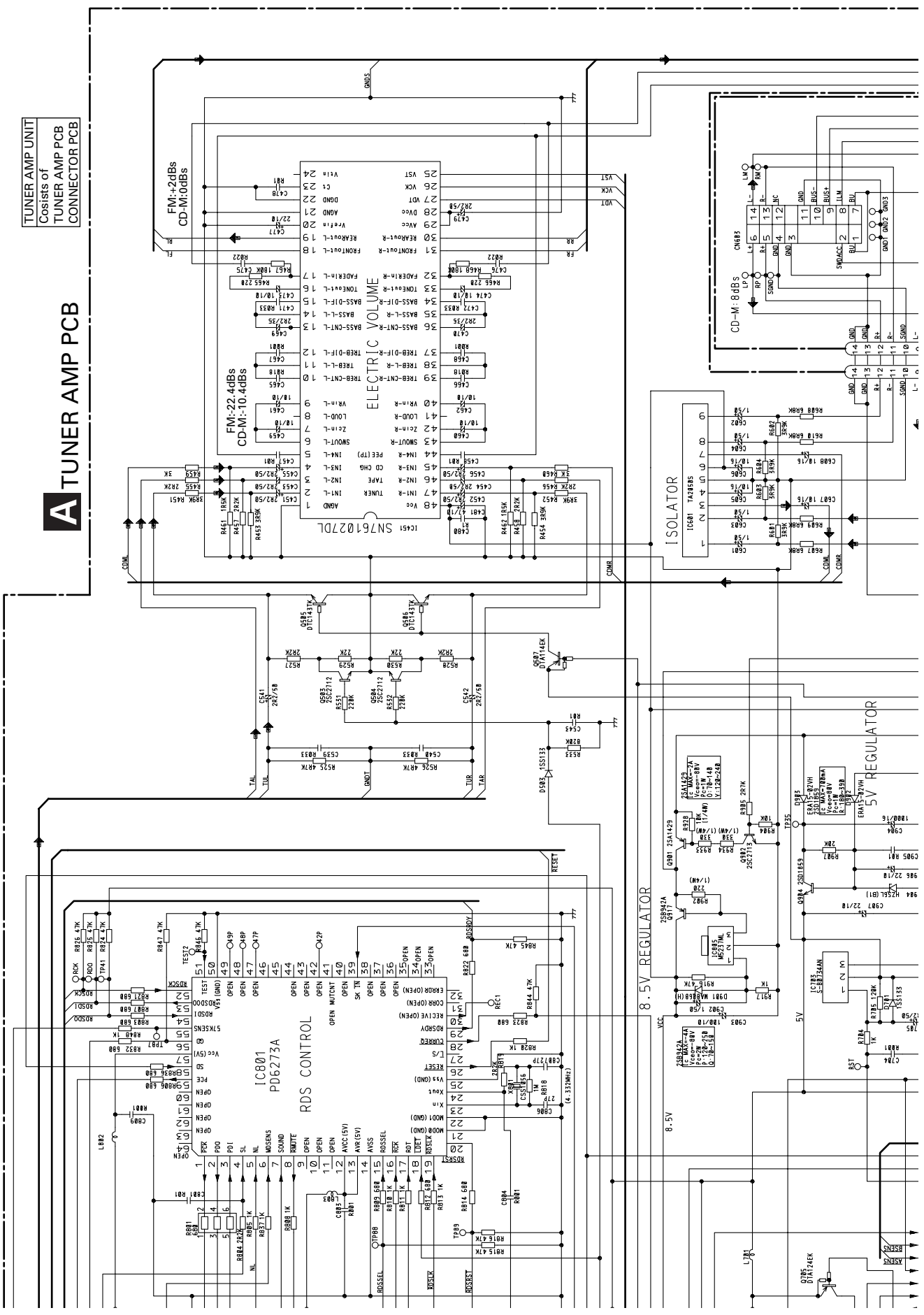
B

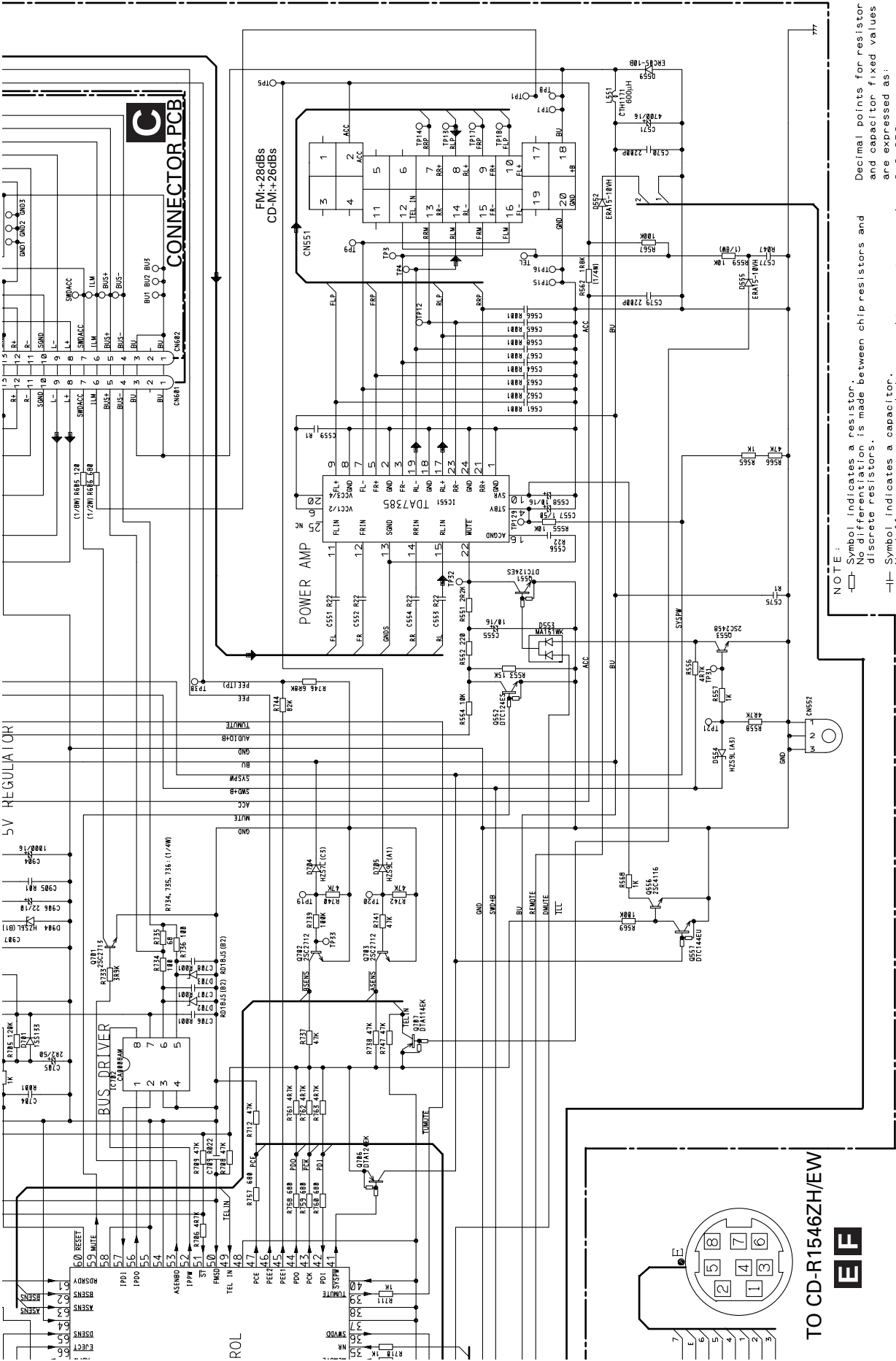
C

D

TUNER AMP UNIT
Consists of
TUNER AMP PCB
CONNECTOR PCB

A TUNER AMP PCB



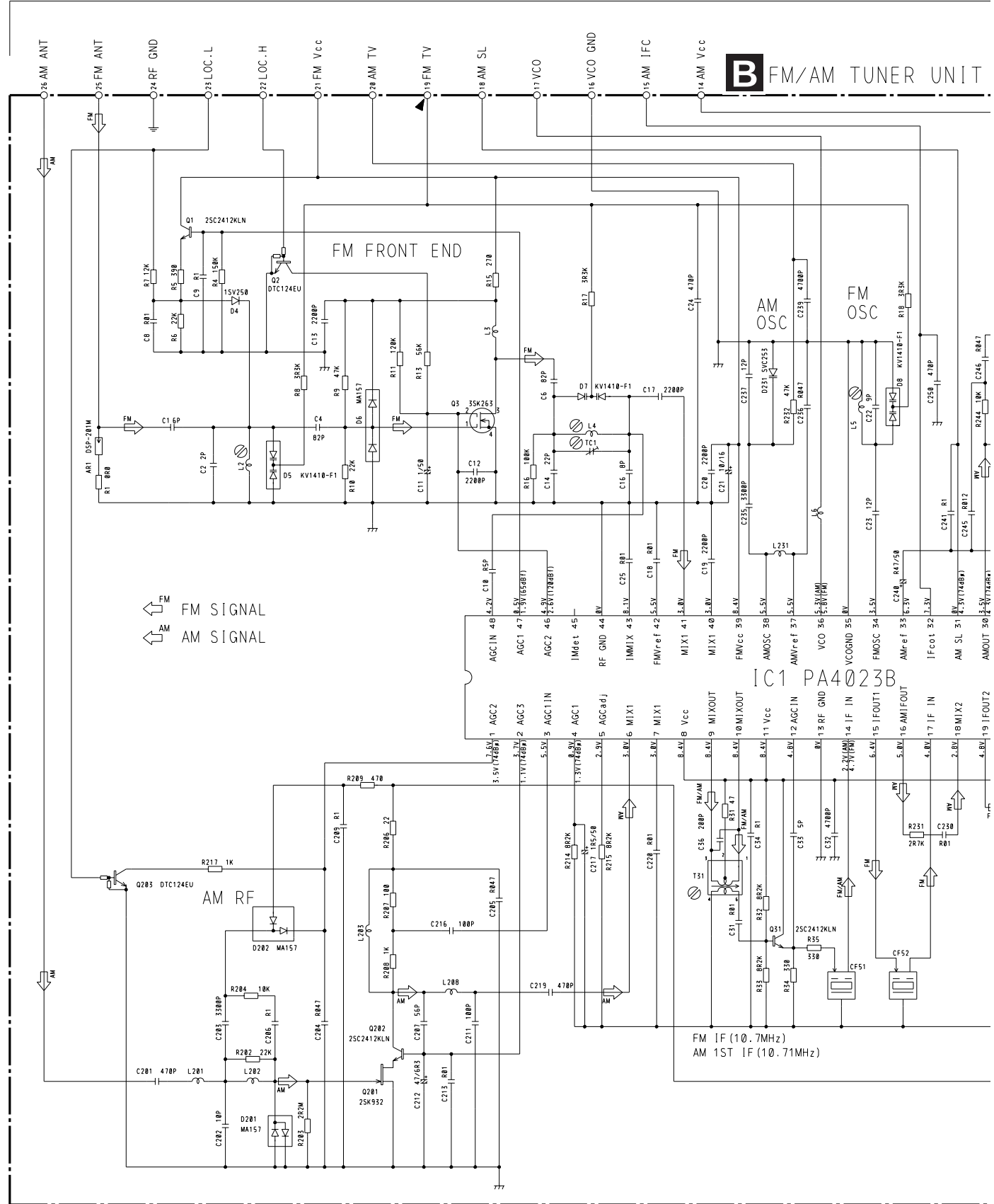


A-b C

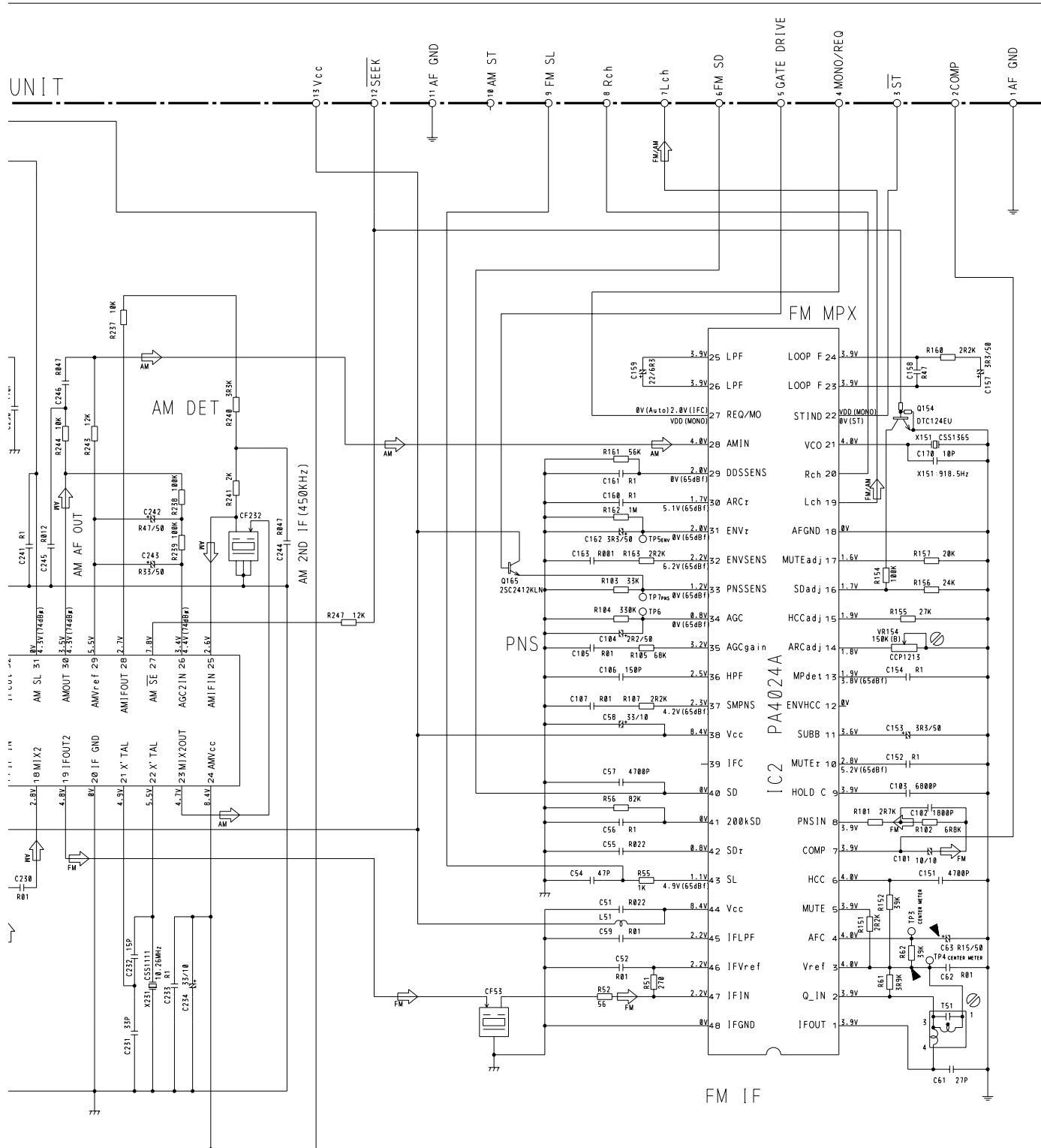
3.3 FM/AM TUNER UNIT(SCU-M2096ZH)

A

B FM/AM TUNER UNIT



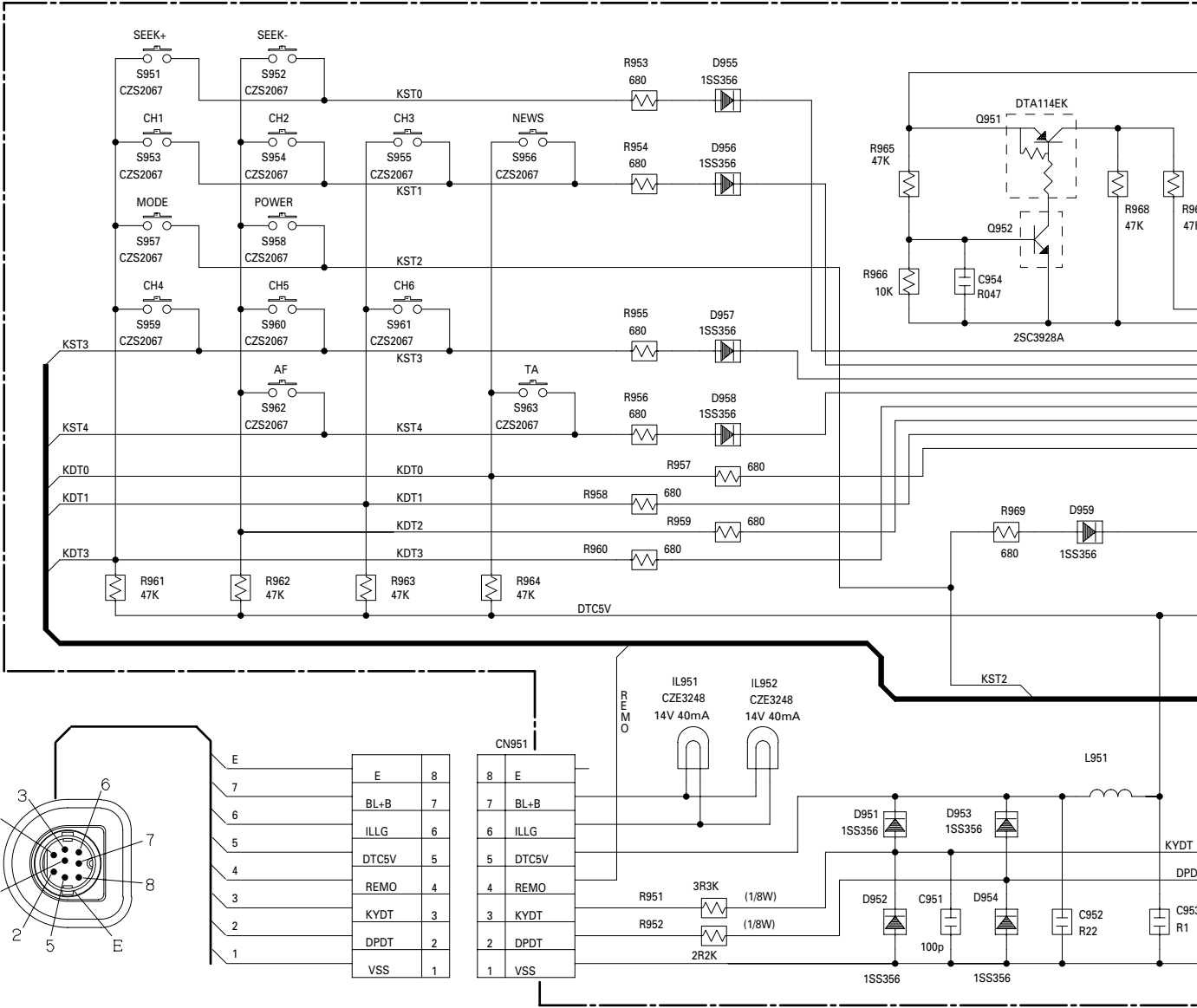
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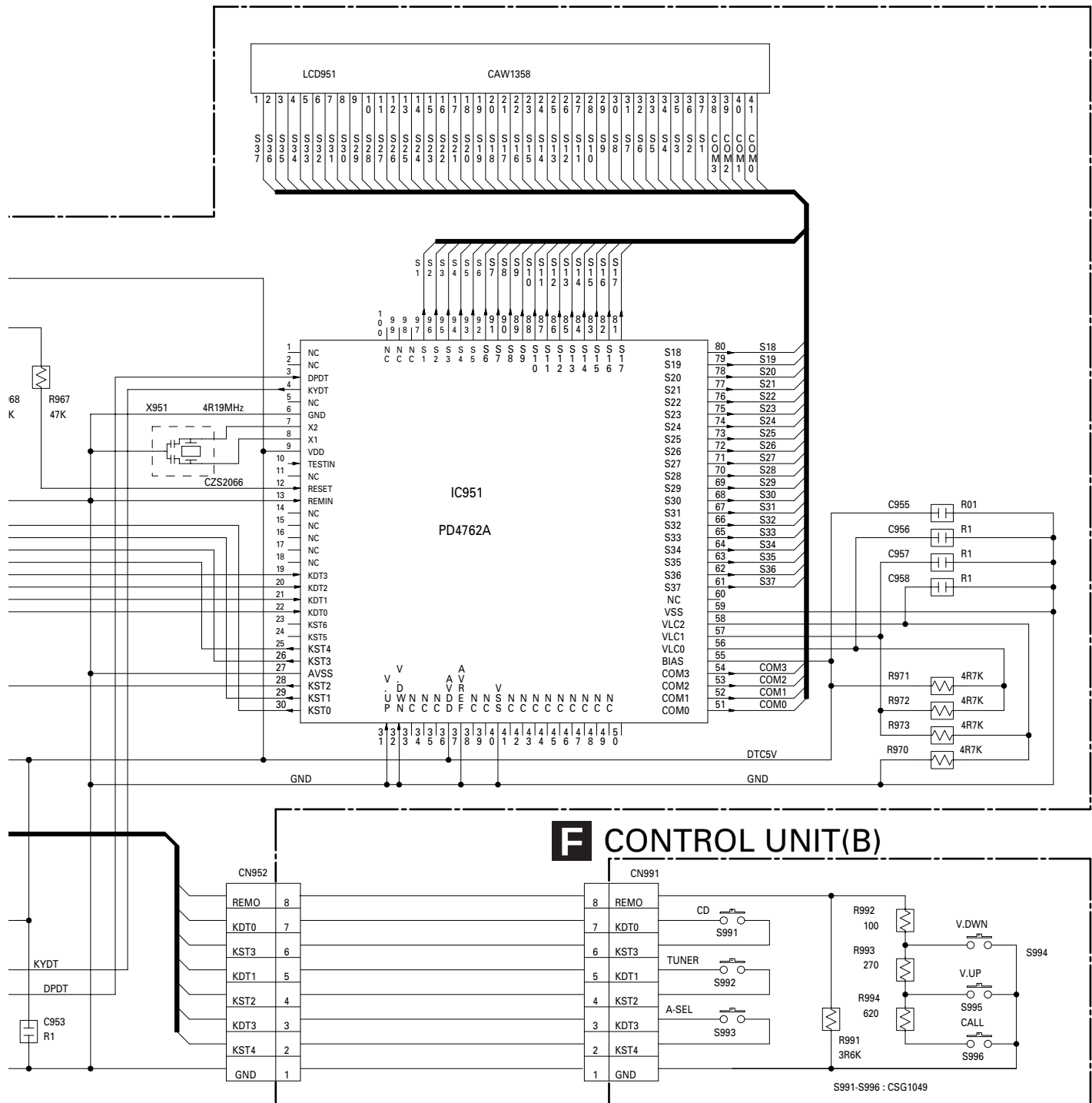


3.4 CONTROL UNIT(A),CONTROL UNIT(B)(CD-R1546ZH)

E CONTROL UNIT(A)

CONTROL UNIT
Cosists of
CONTROL UNIT(A)
CONTROL UNIT(B)

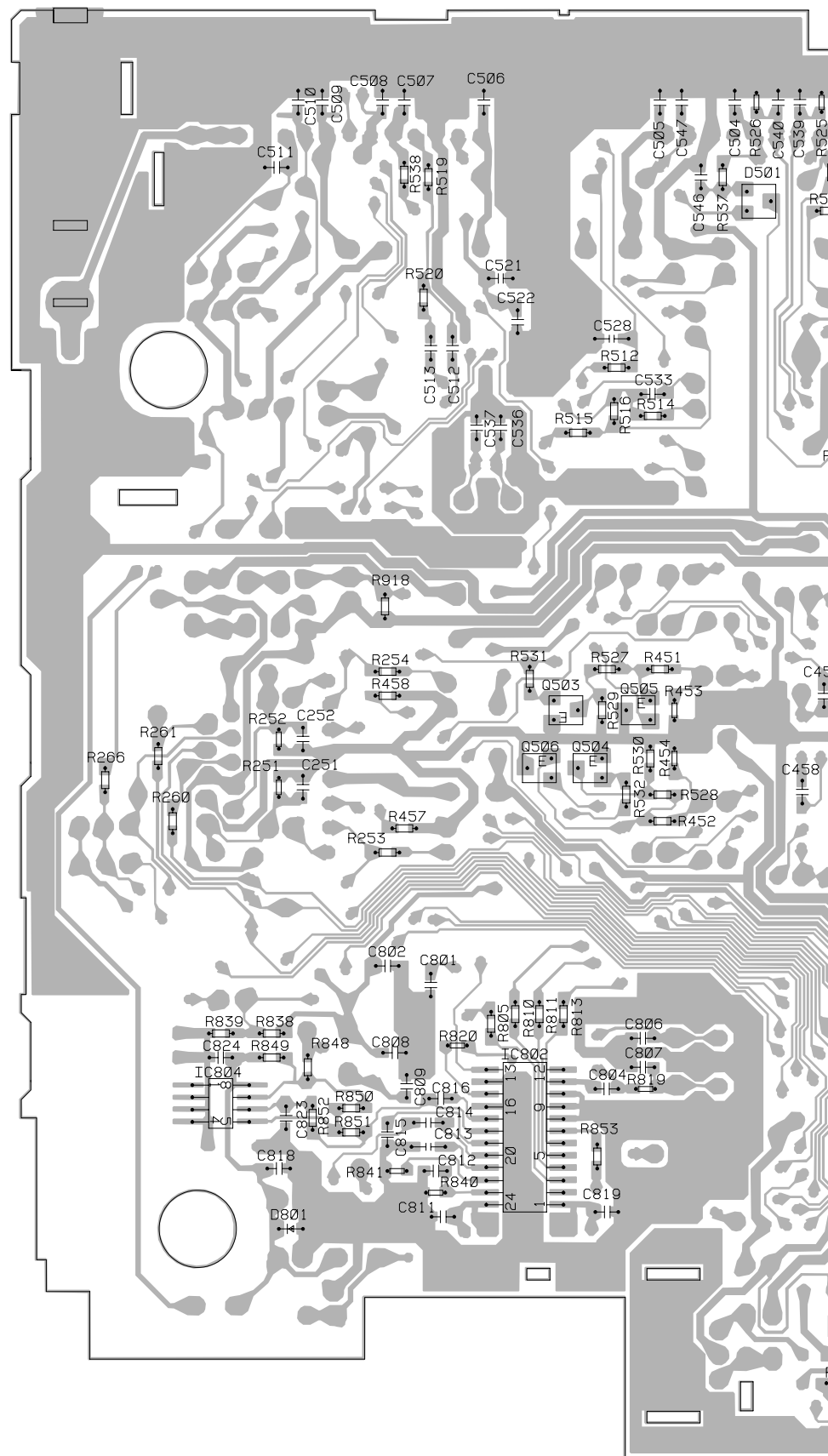




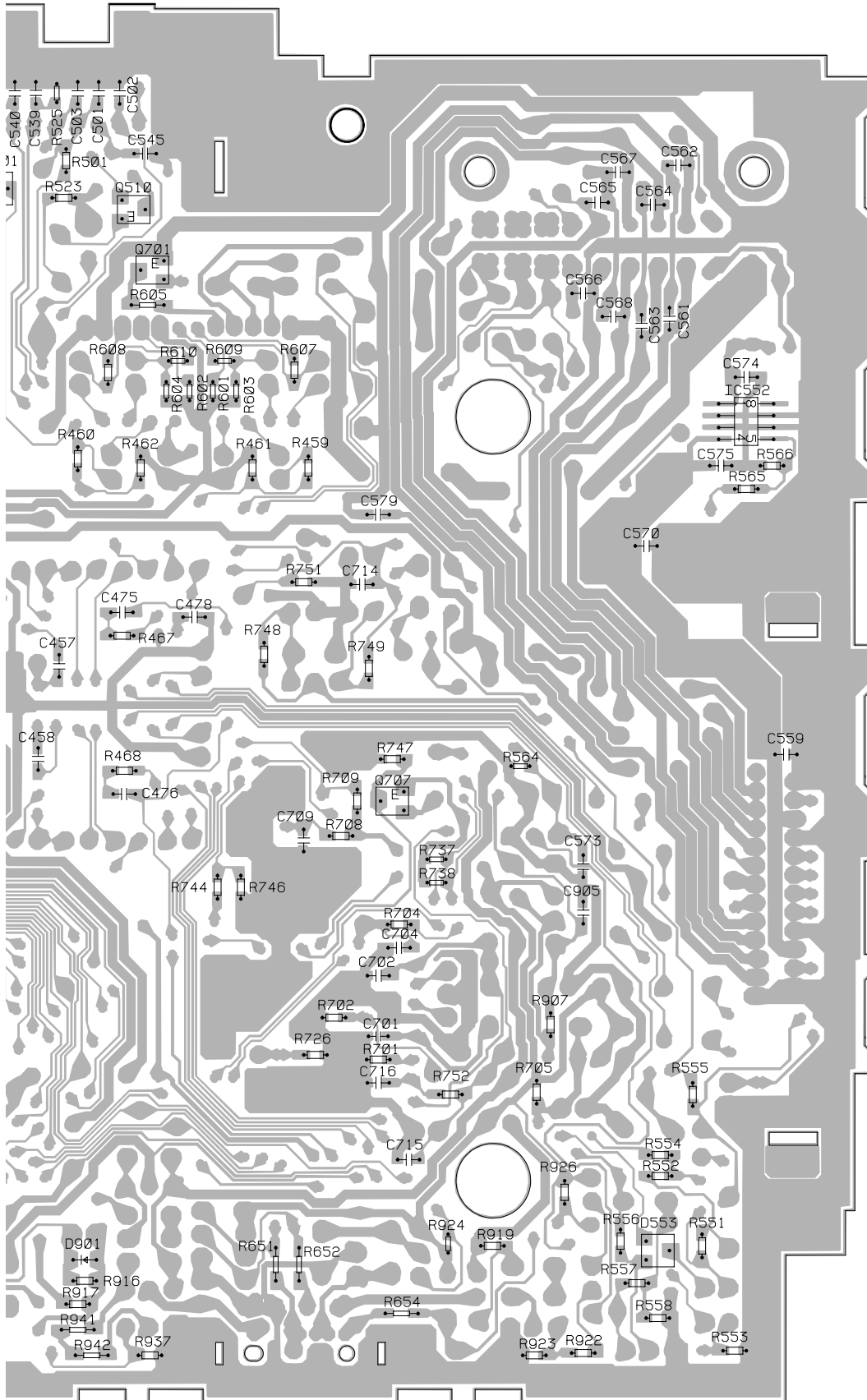


D

A TUNER AMP PCB



SIDE B



IC, Q

Q510

Q701

IC552

Q503 Q505

Q506 Q504

Q707

IC804

IC802

A

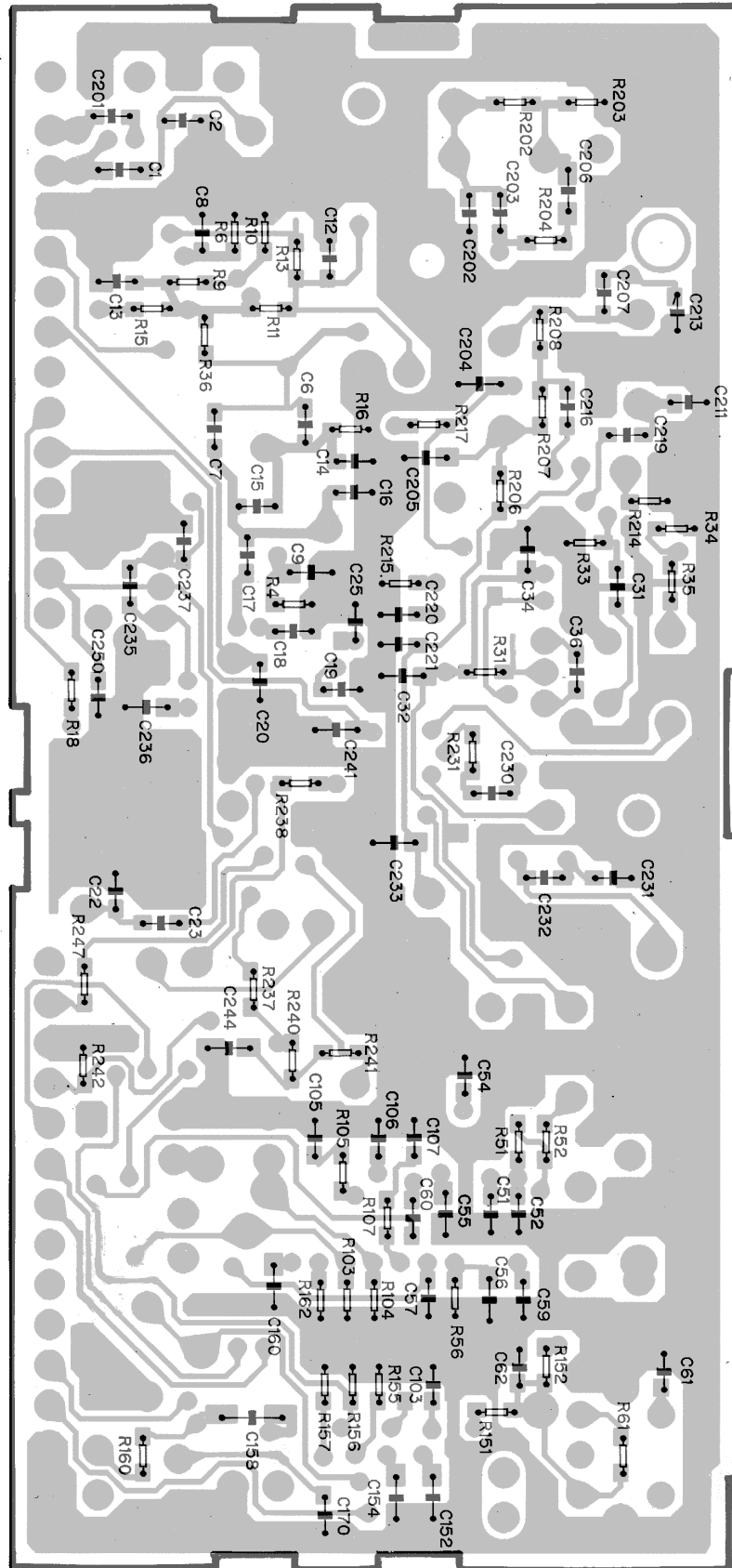
B

C

D

B

SIDE B

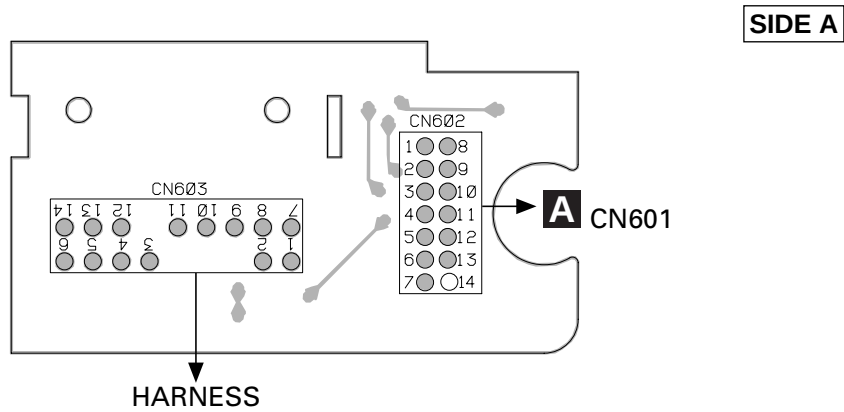


FM/AM TUNER UNIT

4.3 CONNECTOR PCB(SCU-M2096ZH)

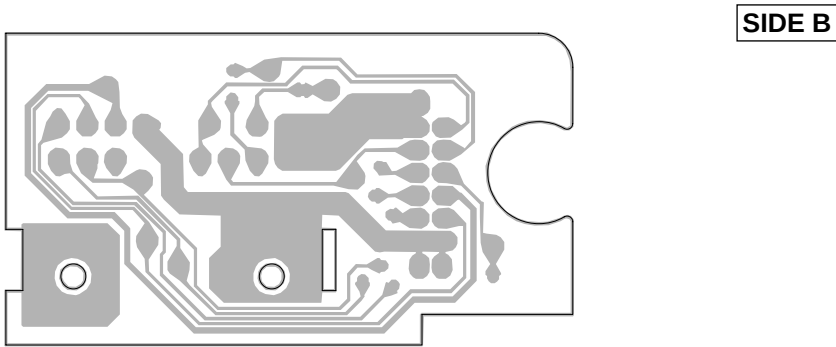
C CONNECTOR PCB

A



C CONNECTOR PCB

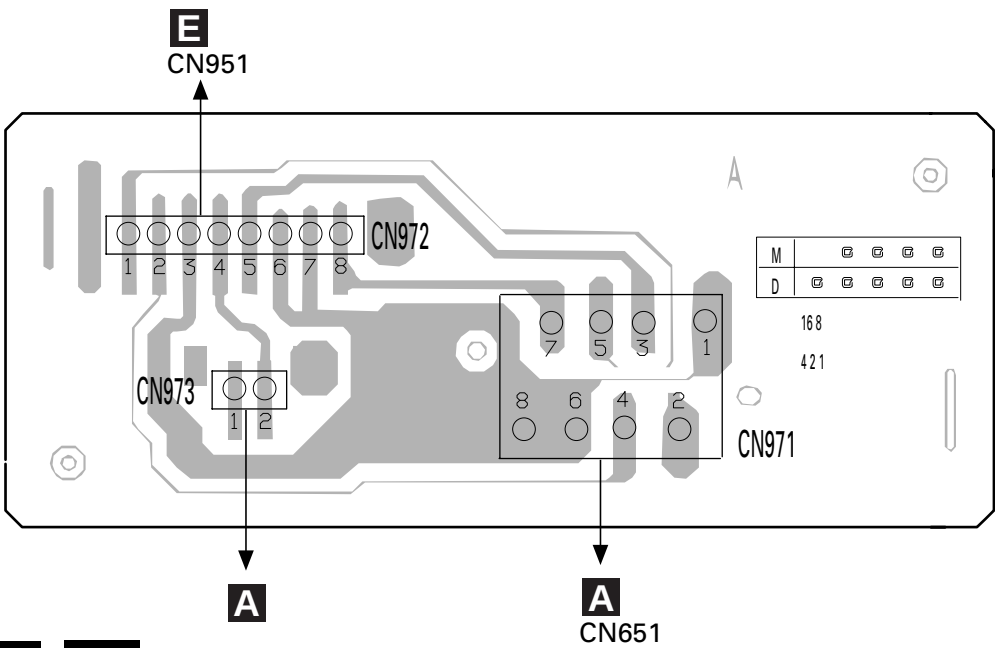
B



4.4 PANEL UNIT(SCU-M2096ZH)

D PANEL UNIT

C

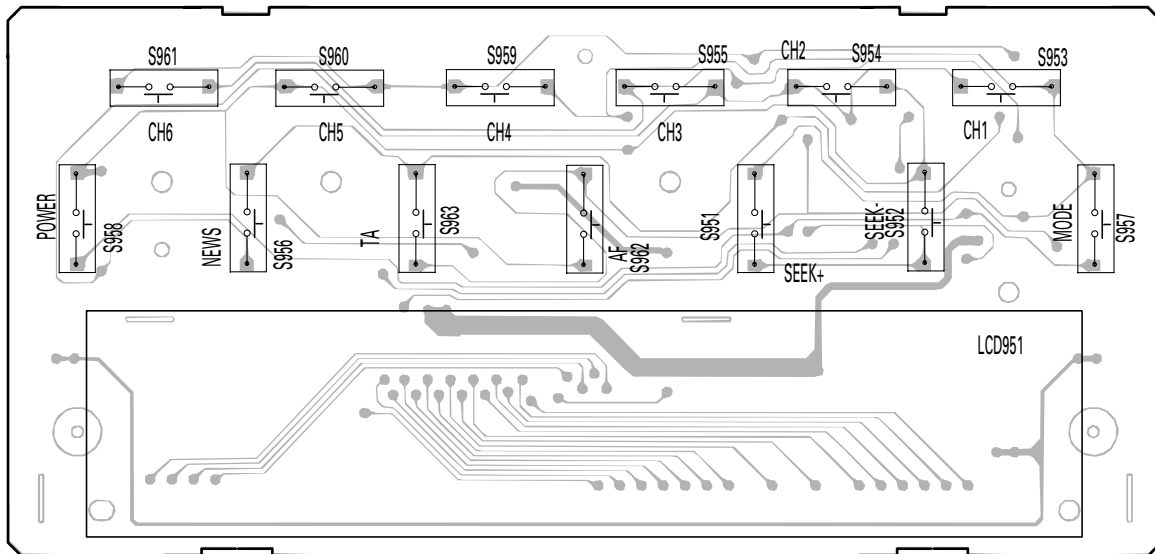


D

4.5 CONTROL UNIT(A)(CD-R1546ZH)

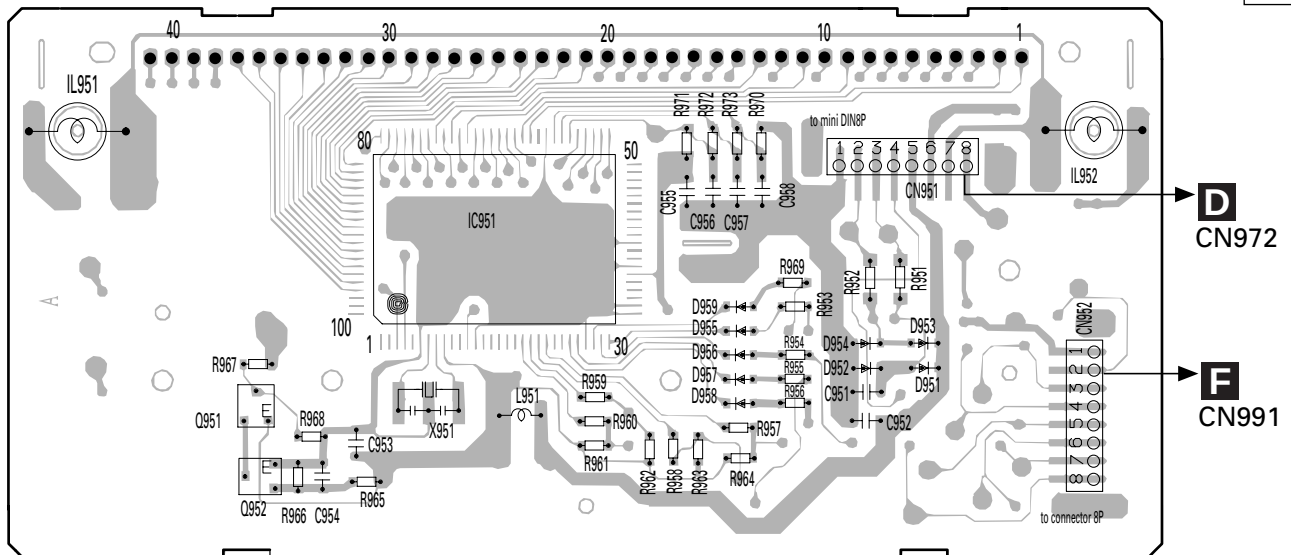
E CONTROL UNIT(A)

SIDE A



E CONTROL UNIT(A)

SIDE B



D
CN972

F
CN991

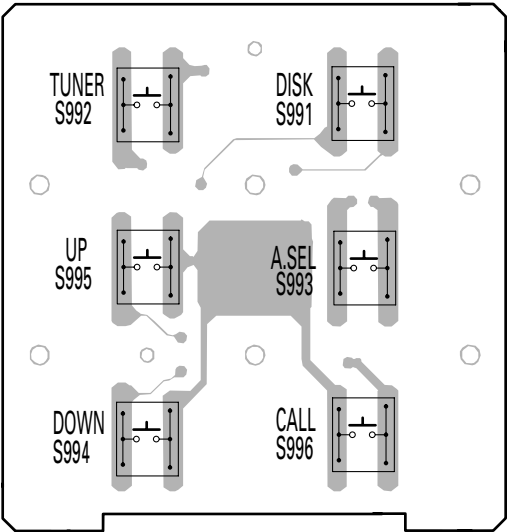
4.6 CONTROL UNIT(B)(CD-R1546ZH)

A



CONTROL UNIT(B)

SIDE A

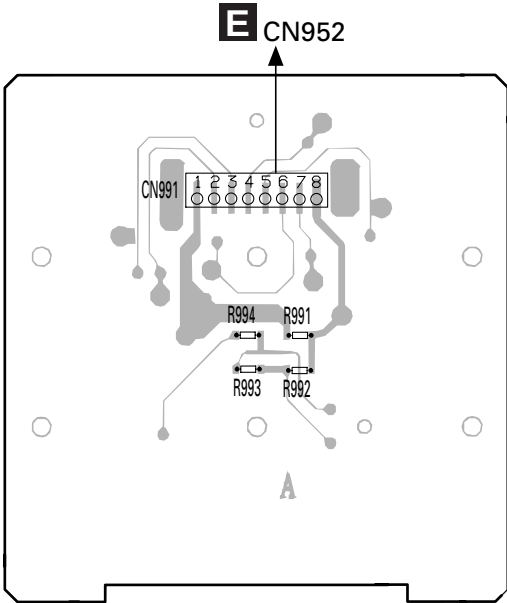


B



CONTROL UNIT(B)

SIDE B



C

D



5. ELECTRICAL PARTS LIST

NOTE:

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

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

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

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

====Circuit Symbol & No.===Part Name			Part No.	====Circuit Symbol & No.===Part Name			Part No.
Tuner Amp Unit Consists of Tuner Amp PCB Connector PCB				D 501	Chip Diode	MA151WK	
				D 503	Diode	1SS133	
				D 552	Diode	ERA15-10VH	
				D 553	Chip Diode	MA151WK	
				D 554	Diode	HZS9L(A3)	
				D 555	Diode	ERA15-10VH	
				D 559	Diode	ERC05-10B	
				D 651	Diode	1SS133	
				D 652	Diode	1SS133	
				D 653	Diode	1SS133	
				D 654	Diode	1SS133	
				D 657	Diode	1SS133	
				D 658	Diode	1SS133	
				D 701	Diode	1SS133	
				D 702	Diode	RD18JS(B2)	
				D 703	Diode	RD18JS(B2)	
				D 704	Diode	HZS7L(C3)	
				D 705	Diode	HZS9L(A1)	
				D 707	Diode	1SS133	
				D 708	Diode	HZS6L(A2)	
				D 709	Diode	1SS133	
				D 801	Diode	MA8047(H)	
				D 901	Diode	MA8068(H)	
				D 902	Diode	ERA15-02VH	
				D 903	Diode	ERA15-02VH	
				D 904	Diode	HZS6L(B1)	
				D 905	Diode	HZS6L(C2)	
				L 501	Ferri-Inductor	LAU2R2K	
				L 502	Ferri-Inductor	CTF-157	
				L 503	Ferri-Inductor	LAU2R2K	
				L 504	Ferri-Inductor	LAU2R2K	
				L 551	Choke Coil 600μH	CTH1171	
				L 701	Ferri-Inductor	LAU101K	
				L 702	Ferri-Inductor	LAU221K	
				L 801	Ferri-Inductor	LAU101K	
				L 802	Ferri-Inductor	LAU101K	
				L 803	Inductor	LCTB2R2K2125	
				L 901	Ferri-Inductor	LAU101K	
				X 501	Crystal Resonator 7.200MHz	CSS1379	
				X 701	Ceramic Resonator 6.29MHz	CSS1310	
				X 801	Crystal Resonator 4.332MHz	CSS1056	
				VR 501	Semi-fixed 2.2kΩ(B)	CCP1202	
				AR 501	Surge Protector	DSP-201M	
					FM/AM Tuner Unit	CWE1416	
				RESISTORS			
				R 251		RS1/10S273J	
				R 252		RS1/10S273J	
				R 253		RS1/10S470J	
				R 254		RS1/10S470J	
				R 255		RS1/10S472J	
				R 256		RS1/10S472J	
				R 257		RS1/10S104J	
				R 258		RS1/10S104J	
				R 262		RS1/10S473J	
				R 263		RS1/10S473J	
Unit Number : UWM6489							
Unit Name : Tuner Amp Unit							
MISCELLANEOUS							
IC 251	IC	LA3161P					
IC 451	IC	SN761027DL					
IC 501	IC	PM2007A					
IC 551	IC	TDA7385					
IC 601	IC	TA2050S					
IC 701	IC	PD4944A					
IC 702	IC	CA0008AM					
IC 703	IC	S-80734AN					
IC 801	IC	PD6273A					
IC 802	IC	PMW001B					
IC 804	IC	NJM2903M					
IC 805	IC	M5237ML					
Q 260	Transistor	DTC144ES					
Q 261	Transistor	DTC124ES					
Q 501	Transistor	2SC2458					
Q 503	Transistor	2SC2712					
Q 504	Transistor	2SC2712					
Q 505	Transistor	DTC143TK					
Q 506	Transistor	DTC143TK					
Q 507	Transistor	DTA114EK					
Q 510	Transistor	2SC2712					
Q 551	Transistor	DTC124ES					
Q 552	Transistor	DTC124ES					
Q 553	Transistor	2SC2458					
Q 556	Transistor	2SC4116					
Q 557	Transistor	DTC144EU					
Q 701	Transistor	2SC2713					
Q 702	Transistor	2SC2712					
Q 703	Transistor	2SC2712					
Q 704	Transistor	2SD1859					
Q 705	Transistor	DTA124EK					
Q 706	Transistor	DTA124EK					
Q 707	Transistor	DTA114EK					
Q 901	Transistor	2SA1429					
Q 902	Transistor	2SC2713					
Q 904	Transistor	2SD1859					
Q 907	Transistor	DTB113ZS					
Q 908	Transistor	DTC123YK					
Q 909	Transistor	DTB113ZS					
Q 910	Transistor	DTC123YK					
Q 915	Transistor	2SA1048					
Q 917	Transistor	2SB942A					
Q 921	Transistor	2SC2459					
Q 924	Transistor	2SA1429					
D 251	Diode	1SS133					

SCU-M2096ZH,CD-R1546ZH

====Circuit Symbol & No.==Part Name	Part No.	====Circuit Symbol & No.==Part Name	Part No.
R 264	RS1/10S333J	R 605	RS1/8S121J
R 265	RS1/10S104J	R 606	RD1/2PM681J
R 266	RS1/10S153J	R 607	RS1/10S682J
R 451	RS1/10S392J	R 608	RS1/10S682J
R 452	RS1/10S392J	R 609	RS1/10S682J
R 453	RS1/10S392J	R 610	RS1/10S682J
R 454	RS1/10S392J	R 651	RS1/8S222J
R 455	RS1/10S222J	R 652	RS1/8S222J
R 456	RS1/10S222J	R 654	RS1/8S222J
R 457	RS1/10S222J	R 701	RS1/10S393J
R 458	RS1/10S222J	R 702	RS1/10S473J
R 459	RS1/10S302J	R 704	RS1/10S102J
R 460	RS1/10S302J	R 705	RS1/10S124J
R 461	RS1/10S152J	R 706	RS1/10S472J
R 462	RS1/10S152J	R 708	RS1/10S473J
R 465	RS1/10S221J	R 709	RS1/10S473J
R 466	RS1/10S221J	R 710	RS1/10S102J
R 467	RS1/10S184J	R 711	RS1/10S102J
R 468	RS1/10S184J	R 712	RS1/10S473J
R 501	RS1/10S472J	R 715	RA3C472J
R 502	RS1/10S562J	R 718	RS1/10S102J
R 503	RS1/10S102J	R 719	RS1/10S102J
R 504	RS1/10S222J	R 720	RS1/10S102J
R 505	RS1/10S222J	R 721	RS1/10S681J
R 506	RS1/10S682J	R 722	RS1/10S681J
R 507	RS1/10S472J	R 723	RS1/10S102J
R 508	RS1/10S222J	R 724	RS1/10S681J
R 509	RS1/10S102J	R 725	RS1/10S681J
R 510	RS1/10S682J	R 726	RS1/10S473J
R 511	RS1/10S472J	R 729	RS1/10S102J
R 512	RS1/10S103J	R 730	RS1/10S102J
R 513	RS1/10S561J	R 733	RS1/10S392J
R 514	RS1/10S152J	R 734	RD1/4PU101J
R 515	RS1/10S392J	R 735	RD1/4PU680J
R 516	RS1/10S392J	R 736	RD1/4PU101J
R 517	RS1/10S272J	R 737	RS1/10S473J
R 518	RS1/10S222J	R 738	RS1/10S473J
R 519	RS1/10S151J	R 739	RS1/10S104J
R 520	RS1/10S821J	R 740	RS1/10S473J
R 523	RS1/10S102J	R 741	RS1/10S473J
R 525	RS1/10S472J	R 742	RS1/10S473J
R 526	RS1/10S472J	R 744	RS1/10S823J
R 527	RS1/10S222J	R 746	RS1/10S682J
R 528	RS1/10S222J	R 747	RS1/10S473J
R 529	RS1/10S223J	R 748	RS1/10S472J
R 530	RS1/10S223J	R 749	RS1/10S361J
R 531	RS1/10S224J	R 750	RS1/10S102J
R 532	RS1/10S224J	R 751	RS1/10S473J
R 533	RS1/10S824J	R 752	RS1/10S102J
R 537	RS1/10S102J	R 757	RS1/10S681J
R 538	RS1/10S103J	R 758	RS1/10S681J
R 551	RS1/10S222J	R 759	RS1/10S681J
R 552	RS1/10S221J	R 760	RS1/10S681J
R 553	RS1/10S153J	R 761	RS1/10S472J
R 554	RS1/10S103J	R 762	RS1/10S472J
R 555	RS1/10S103J	R 763	RS1/10S472J
R 556	RS1/10S472J	R 801	RA3C681J
R 557	RS1/10S102J	R 803	RS1/10S681J
R 558	RS1/10S472J	R 804	RS1/10S222J
R 559	RS1/8S103J	R 805	RS1/10S102J
R 562	RD1/4PU182J	R 806	RS1/10S681J
R 565	RS1/10S102J	R 807	RS1/10S681J
R 566	RS1/10S473J	R 808	RS1/10S102J
R 567	RS1/10S104J	R 809	RS1/10S681J
R 568	RS1/10S102J	R 810	RS1/10S102J
R 569	RS1/10S104J	R 811	RS1/10S102J
R 601	RS1/10S392J	R 812	RS1/10S681J
R 602	RS1/10S392J	R 813	RS1/10S102J
R 603	RS1/10S392J	R 814	RS1/10S681J
R 604	RS1/10S392J	R 815	RS1/10S473J

====Circuit Symbol & No.===Part Name	Part No.	====Circuit Symbol & No.===Part Name	Part No.
R 816	RS1/10S473J	C 453	CEJANP2R2M50
R 817	RS1/10S562J	C 454	CEJANP2R2M50
R 818	RD1/4PU105J	C 455	CEJA2R2M50
R 819	RS1/10S222J	C 456	CEJA2R2M50
R 820	RS1/10S102J	C 457	CKSQYB103K50
R 821	RS1/10S681J	C 458	CKSQYB103K50
R 822	RS1/10S681J	C 459	CEJANP100M10
R 823	RS1/10S681J	C 460	CEJANP100M10
R 824	RS1/10S473J	C 461	CEJANP100M10
R 825	RS1/10S473J	C 462	CEJANP100M10
R 826	RS1/10S473J	C 465	CKSQYB183K50
R 832	RS1/10S681J	C 466	CKSQYB183K50
R 836	RS1/10S681J	C 467	CKSQYB102K50
R 837	RS1/10S102J	C 468	CKSQYB102K50
R 838	RS1/10S223J	C 469	CEJANP2R2M35
R 839	RS1/10S223J	C 470	CEJANP2R2M35
R 840	RS1/10S333J	C 471	CKSQYB333K25
R 841	RS1/10S0R0J	C 472	CKSQYB333K25
R 842	RD1/4PU121J	C 473	CEJANP100M10
R 844	RS1/10S473J	C 474	CEJANP100M10
R 845	RS1/10S473J	C 475	CKSQYB223K50
R 846	RS1/10S473J	C 476	CKSQYB223K50
R 847	RS1/10S473J	C 477	CEJA220M10
R 848	RS1/10S102J	C 478	CKSQYB103K50
R 849	RS1/10S562J	C 479	CEJA2R2M50
R 850	RS1/10S564J	C 480	CKSQYB104K50
R 851	RS1/10S222J	C 481	CEJA470M10
R 852	RS1/10S222J	C 501	CKSQYB152K50
R 853	RS1/10S102J	C 503	CKSQYB223K50
R 901	RS1/10S222J	C 506	CKSQYB102K50
R 902	RD1/4PU221J	C 507	CKSQYB103K50
R 904	RS1/10S103J	C 509	CKSQYB102K50
R 905	RS1/10S272J	C 510	CKSQYB103K50
R 907	RS1/10S203J	C 512	CKSQYB103K50
R 912	RS1/10S472J	C 513	CKSQYB103K50
R 916	RS1/10S473J	C 514	CCSQSL101J50
R 917	RS1/10S102J	C 515	CKSQYB473K25
R 918	RS1/10S103J	C 518	CKSQYB103K50
R 924	RS1/10S103J	C 519	CCSQSL101J50
R 925	RS1/10S332J	C 520	CKSQYB472K50
R 926	RS1/10S103J	C 522	CKSQYB104K50
R 927	RS1/10S333J	C 523	CKSQYB103K50
R 928	RD1/4PU103J	C 524	CEJA220M6R3
R 933	RD1/4PU331J	C 525	CKSQYB103K50
R 934	RD1/4PU331J	C 526	CEJA220M6R3
R 937	RS1/10S103J	C 527	CKSQYB103K50
R 938	RS1/10S472J	C 528	CKLSR473K16
R 940	RD1/4PU103J	C 530	CCH1280
R 941	RS1/8S821J	C 531	CKSQYB103K50
R 942	RS1/8S821J	C 532	CCH1280
CAPACITORS		C 533	CKSQYB103K50
		C 534	CEJAR47M50
		C 535	CKSQYB103K50
		C 536	CCSQCH150J50
		C 537	CCSQCH150J50
C 251	CKSQYB681K50	C 538	CEJA100M16
C 252	CKSQYB681K50	C 539	CKSQYB333K25
C 253	CEJA2R2M50	C 540	CKSQYB333K25
C 254	CEJA2R2M50	C 541	CEJA2R2M50
C 255	CEJA101M10	C 542	CEJA2R2M50
C 256	CEJA101M10	C 543	CKSQYB103K50
C 257	CKSQYB333K25	C 546	CKSQYB223K50
C 258	CKSQYB333K25	C 551	CFTNA224J50
C 259	CCH1014	C 552	CFTNA224J50
C 260	CKSQYB103K50	C 553	CFTNA224J50
C 261	CKSQYB103K50	C 554	CFTNA224J50
C 262	CKSQYB103K50	C 555	CEJA100M16
C 263	CKSQYB103K50	C 556	CFTNA224J50
C 451	CEJA2R2M50	C 557	CEJA1R0M50
C 452	CEJA2R2M50	C 558	CEHAR100M16

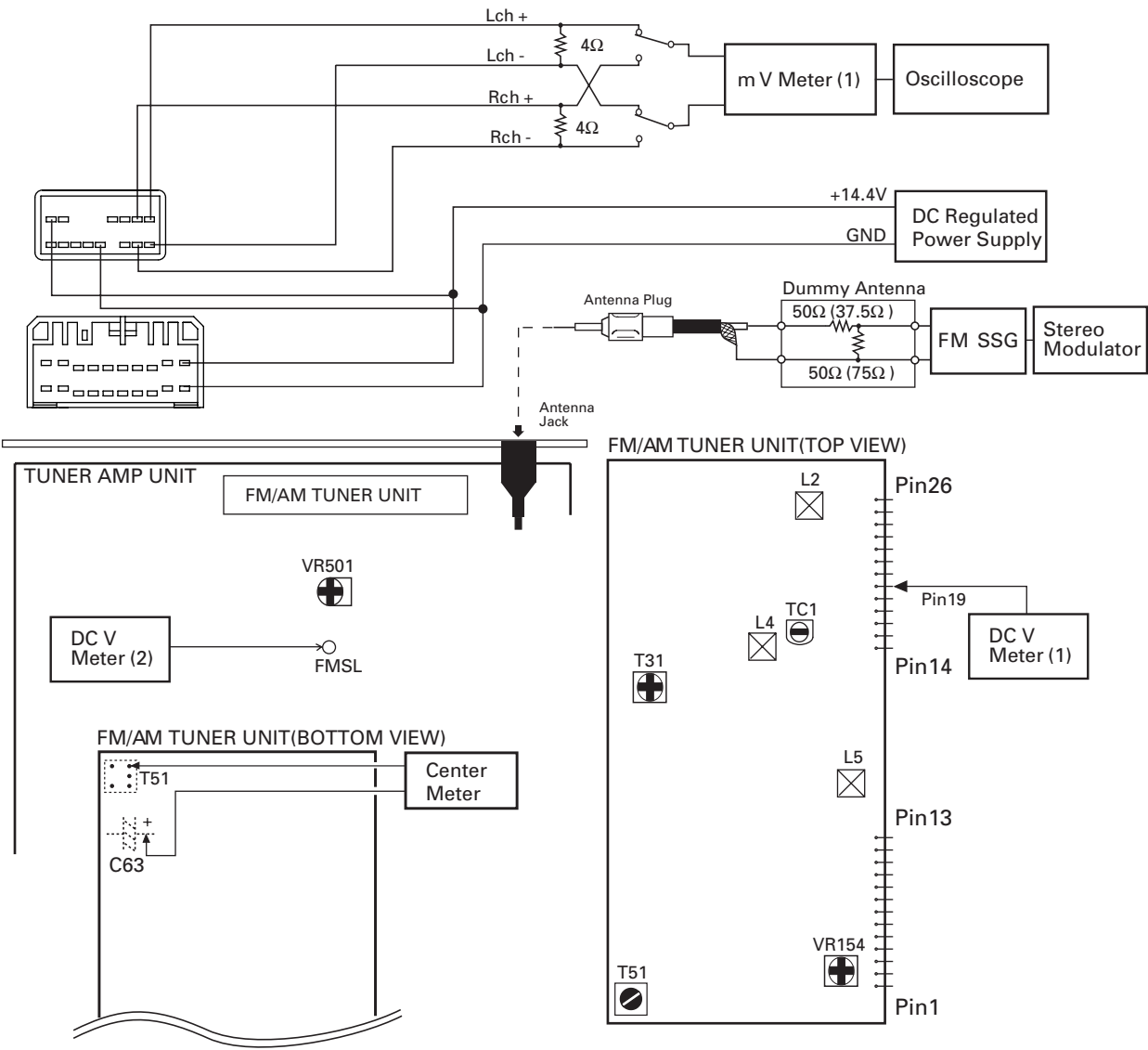
====Circuit Symbol & No.====Part Name	Part No.	====Circuit Symbol & No.====Part Name	Part No.
C 559	CKSQYB104K50	B Unit Number: CWE1416 Unit Name : FM/AM Tuner Unit	
C 561	CKSQYB102K50		
C 562	CKSQYB102K50	MISCELLANEOUS	
C 563	CKSQYB102K50	IC 1 IC	PA4023B
C 564	CKSQYB102K50	IC 2 IC	PA4024A
		Q 1 Transistor	2SC2412K
C 565	CKSQYB102K50	Q 2 Transistor	DTC124EU
C 566	CKSQYB102K50	Q 3 FET	3SK263
C 567	CKSQYB102K50	Q 31 Transistor	2SC2412K
C 568	CKSQYB102K50	Q 154 Transistor	DTC124EU
C 570	CKSQYB222K50	Q 165 Transistor	2SC2412K
C 571	CEAS472M16	Q 201 FET	2SK932
C 575	CKSQYB104K50	Q 202 Transistor	2SC2412K
C 577	CKSQYB473K50	Q 203 Transistor	DTC124EU
C 579	CKSQYB222K50	D 4 Diode	1SV250
C 601	CEJA1R0M50	D 5 Diode	KV1410-F1
C 602	CEJA1R0M50	D 7 Diode	KV1410-F1
C 603	CEJA1R0M50	D 8 Diode	KV1410-F1
C 604	CEJA1R0M50	D 201 Diode	MA157
C 605	CEJA100M16	D 202 Diode	MA157
C 606	CEJA100M16	D 231 Diode	SVC253
C 607	CEJA100M16	L 2 Coil	CTC1108
C 608	CEJA100M16	L 3 Inductor	LCTB2R2K2125
C 701	CCSQSL101J50	L 4 Coil	CTC1108
C 702	CKSQYB104K50	L 5 Coil	CTC1107
C 704	CKSQYB102K50	L 6 Inductor	LCTBR15K1608
C 705	CEJA2R2M50	L 51 Ferri-Inductor	LAU150K
C 706	CKSQYB102K50	L 201 Ferri-Inductor	LAU4R7K
C 707	CKSQYB102K50	L 202 Ferri-Inductor	LAU330K
C 708	CKSQYB102K50	L 203 Inductor	CTF1287
C 709	CKSQYB223K50	L 208 Inductor	LAU121K
C 710	CEJA220M10	L 231 Inductor	LCTA3R3J3225
C 711	CEJA2R2M50	T 31 Coil	CTE1116
C 712	CEJA220M10	T 51 Coil	CTC1136
C 715	CKSQYB102K50	TC 1 Capacitor	CCL1046
C 716	CKSQYB223K50	CF 51 Ceramic Filter	CTF1442
C 801	CKSQYB103K50	CF 52 Ceramic Filter	CTF1442
C 803	CKSQYB102K50	CF 53 Ceramic Filter	CTF1442
C 804	CKSQYB102K50	CF 232 Ceramic Filter	CTF1348
C 806	CCSQCH270J50	X 151 Radiator 918.5Hz	CSS1365
C 807	CCSQCH270J50	X 231 Crystal Resonator 10.26MHz	CSS1111
C 809	CKSQYB102K50	VR 154 Semi-fixed 150kΩ(B)	CCP1213
C 811	CKSQYB104K50	AR 1 Surge Protector	DSP-201M
C 812	CKSQYB222K50		
C 813	CKSYB104K50		
C 814	CKSYB105K16		
C 815	CKSQYB104K50	RESISTORS	
C 816	CKSQYB472K50	R 1	RS1/16S0R0J
C 817	CEJA100M16	R 4	RS1/16S154J
C 818	CKSQYB103K50	R 5	RS1/16S391J
C 819	CKSQYB104K50	R 6	RS1/16S223J
C 820	CEJANP4R7M16	R 7	RS1/16S123J
C 821	CEJA4R7M35		
C 823	CKSQYB103K50	R 8	RS1/16S332J
C 824	CKSQYB103K50	R 9	RS1/16S473J
C 902	CEJA1R0M50	R 10	RS1/16S223J
C 903	CEJA101M10	R 11	RS1/16S124J
C 904	CEAS102M16	R 13	RS1/16S563J
C 905	CKSQYB103K50		
C 906	CEJA220M10	R 15	RS1/16S271J
C 907	CEJA220M10	R 16	RS1/16S104J
C 912	CEJA4R7M35	R 17	RS1/16S332J
C 920	CEJA1R0M50	R 18	RS1/16S332J
		R 31	RS1/16S470J
		R 32	RS1/16S822J
		R 33	RS1/16S822J
		R 34	RS1/16S331J
		R 35	RS1/16S331J
		R 51	RS1/16S271J

====Circuit Symbol & No.===Part Name	Part No.	====Circuit Symbol & No.===Part Name	Part No.
R 52	RS1/16S560J	C 51	CKSRYB223K25
R 55	RS1/16S102J	C 52	CKSRYB103K25
R 56	RS1/16S823J	C 54	CCSRCH470J50
R 61	RS1/16S392J	C 55	CKSQYB223K25
R 62	RS1/16S393J	C 56	CKSQYB104K16
R 101	RS1/16S272J	C 57	CKSRYB472K50
R 102	RS1/16S682J	C 58	CEJA330M10
R 103	RS1/16S333J	C 59	CKSRYB103K25
R 104	RS1/16S334J	C 61	CCSRCH270J50
R 105	RS1/16S683J	C 62	CKSRYB103K25
R 107	RS1/16S222J	C 63	CEJAR15M50
R 151	RS1/16S222J	C 101	CEJANP100M10
R 152	RS1/16S393J	C 102	CKSRYB182K50
R 154	RS1/16S104J	C 103	CKSRYB682K25
R 155	RS1/16S273J	C 104	CEJA2R2M50
R 156	RS1/16S243J	C 105	CKSRYB103K25
R 157	RS1/16S203J	C 106	CCSRCH151J50
R 160	RS1/16S222J	C 107	CKSRYB103K25
R 161	RS1/16S563J	C 151	CKSRYB472K50
R 162	RS1/16S105J	C 152	CKSQYB104K16
R 163	RS1/16S222J	C 153	CEJA3R3M50
R 202	RS1/16S223J	C 154	CKSQYB104K16
R 203	RS1/16S225J	C 157	CEJA3R3M50
R 204	RS1/16S103J	C 158	CKSYB474K16
R 206	RS1/16S220J	C 159	CEJA220M6R3
R 207	RS1/16S101J	C 160	CKSQYB104K16
R 208	RS1/16S102J	C 161	CKSQYB104K16
R 209	RS1/16S471J	C 162	CEJA3R3M50
R 214	RS1/16S822J	C 163	CKSRYB102K50
R 215	RS1/16S822J	C 170	CCSRCH100D50
R 217	RS1/16S102J	C 201	CCSRCH471J50
R 231	RS1/16S272J	C 202	CCSRCH100D50
R 232	RS1/16S473J	C 203	CKSRYB332K50
R 237	RS1/16S103J	C 204	CKSQYB473K16
R 238	RS1/16S104J	C 205	CKSQYB473K16
R 239	RS1/16S104J	C 206	CKSQYB104K16
R 240	RS1/16S332J	C 207	CCSRCH560J50
R 241	RS1/16S202J	C 209	CKSQYB104K16
R 243	RS1/16S123J	C 211	CCSRCH101J50
R 244	RS1/16S103J	C 212	CEJA470M6R3
R 247	RS1/16S123J	C 213	CKSRYB103K25
CAPACITORS		C 216	CCSRCH101J50
C 1	CCSQCH6R0D50	C 217	CEJA1R5M50
C 2	CCSRCK2R0C50	C 219	CCSRCH471J50
C 4	CCSRCH820J50	C 220	CKSRYB103K25
C 6	CCSRCH820J50	C 230	CKSRYB103K25
C 8	CKSRYB103K25	C 231	CCSRCH330J50
C 9	CKSQYB104K16	C 232	CCSRCH150J50
C 10	CCSRCKR50C50	C 233	CKSQYB104K16
C 11	CEJA1R0M50	C 234	CEJA330M10
C 13	CKSRYB222K50	C 235	CKSRYB332K50
C 14	CCSRCH220J50	C 236	CKSQYB473K16
C 16	CCSRCH8R0D50	C 237	CCSRCH120J50
C 17	CKSRYB222K50	C 239	CKSRYB472K50
C 18	CKSRYB103K25	C 240	CEJAR47M50
C 19	CKSRYB222K50	C 241	CKSQYB104K16
C 20	CKSRYB222K50	C 242	CEJAR47M50
C 21	CEJA100M16	C 243	CEJAR33M50
C 22	CCSRTH9R0D50	C 244	CKSQYB473K16
C 23	CCSRTH120J50	C 245	CKSRYB123K25
C 24	CCSRCH471J50	C 246	CKSQYB473K16
C 25	CKSRYB103K25	C 250	CCSRCH471J50
C 31	CKSRYB103K25		
C 32	CKSQYB472K50		
C 33	CCSRCH5R0C50		
C 34	CKSQYB104K16		
C 36	CCSRRH201J50		

====Circuit Symbol & No.===Part Name	Part No.	====Circuit Symbol & No.===Part Name	Part No.
Control Unit Consists of Control Unit(A) Control Unit(B) E F Unit Number : CZW6018 Unit Name : Control Unit		R 970	RS1/10S472J
		R 971	RS1/10S472J
		R 972	RS1/10S472J
		R 973	RS1/10S472J
		R 991	RS1/10S362J
		R 992	RS1/10S101J
		R 993	RS1/10S271J
		R 994	RS1/10S621J
MISCELLANEOUS		CAPACITORS	
IC 951 IC PD4762A		C 951 CCSQCH101J50	
Q 951 Transistor DTA114EK		C 952 CKSQYF224Z25	
Q 952 Transistor 2SC3928A		C 953 CKSQYF104Z25	
D 951 Diode 1SS356		C 954 CKSQYB473K50	
D 952 Diode 1SS356		C 955 CKSQYB103K50	
D 953 Diode 1SS356		C 956 CKSQYF104Z25	
D 954 Diode 1SS356		C 957 CKSQYF104Z25	
D 955 Diode 1SS356		C 958 CKSQYF104Z25	
D 956 Diode 1SS356			
D 957 Diode 1SS356			
D 958 Diode 1SS356			
D 959 Diode 1SS356			
L 951 Coil LCTA2R2J3225			
X 951 Radiator 4.19MHz CZS2066			
S 951 Switch CZS2067			
S 952 Switch CZS2067			
S 953 Switch CZS2067			
S 954 Switch CZS2067			
S 955 Switch CZS2067			
S 956 Switch CZS2067			
S 957 Switch CZS2067			
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S 961 Switch CZS2067			
S 962 Switch CZS2067			
S 963 Switch CZS2067			
S 991 Switch CSG1049			
S 992 Switch CSG1049			
S 993 Switch CSG1049			
S 994 Switch CSG1049			
S 995 Switch CSG1049			
S 996 Switch CSG1049			
IL 951 Lamp 14V40mA CZE3248			
IL 952 Lamp 14V40mA CZE3248			
LCD 951 LCD CAW1358			
RESISTORS			
R 951 RS1/8S332J			
R 952 RS1/8S222J			
R 953 RS1/10S681J			
R 954 RS1/10S681J			
R 955 RS1/10S681J			
R 956 RS1/10S681J			
R 957 RS1/10S681J			
R 958 RS1/10S681J			
R 959 RS1/10S681J			
R 960 RS1/10S681J			
R 961 RS1/10S473J			
R 962 RS1/10S473J			
R 963 RS1/10S473J			
R 964 RS1/10S473J			
R 965 RS1/10S473J			
R 966 RS1/10S103J			
R 967 RS1/10S473J			
R 968 RS1/10S473J			
R 969 RS1/10S681J			

6. ADJUSTMENT

● Connection Diagram



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

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

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

FM ADJUSTMENT

	No.	FM SSG		Displayed	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)	Frequency(MHz)		
TUN Volt	1			108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
Image	1	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

RDS SL ADJUSTMENT

	No.	FM SSG		Displayed	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)	Frequency(MHz)		
	1	98.1	35	98.1	VR501	DC V Meter(2) : 1.75V+0.05V,-0.35V

7. GENERAL INFORMATION

7.1 PARTS

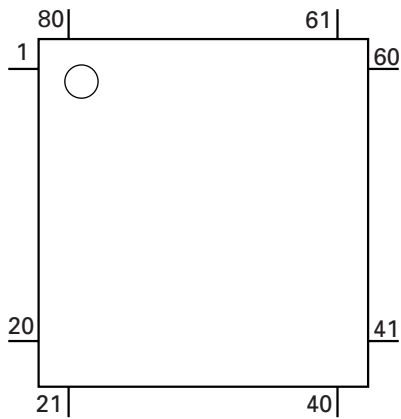
7.1.1 IC

● Pin Functions (PD4944A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	VST	O	C	Strobe pulse output for electronic volume
2	VCK	O	C	Clock output for electronic volume
3	VDT	O	C	Data output for electronic volume
4	AVSS	I		A/D GND
5,6	NC			Not used
7	AVREF1			(Connect to VDD)
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10–13	NC			Not used
14	LCDBK	O	C	LCD back light output
15	RDSTEST	I		RDS test input
16	RDSDI	I		Serial data input for RDS IC
17	RDSDO	O	C	Serial data output for RDS IC
18	RDSCK	O	C	Serial clock for RDS IC
19	RDSRST	O	C	Reset output for RDS IC
20	RDSSEL	O	C	Select output for RDS IC
21–29	NC			Not used
30	DMINH	O	C	Mechanism mute cancel output
31	MECPW	O	C	Cassette mechanism power output
32	TAPLOD	I		Tape loading sense input
33	VSS			GND
34	MCMUTE	I		Cassette mechanism mute input
35	NR	I		Tape running input
36	SWVDD	O	N	Grille power supply control output
37,38	NC			Not used
39	TUMUTE	O	N	Tuner mute output
40	NC			Not used
41	SYSPW	O	C	System power supply control output
42	PDI	I		Data input from PLL IC
43	PCK	O	C	Serial clock output for PLL IC
44	PDO	O	C	Data output for PLL IC
45	PEE	O	C	Beep tone output
46	PEE1	O	C	Beep tone output
47	PCE2	O	C	Chip enable output for PLL IC
48	NC			Not used
49	TELIN	I		Telephone mute input
50	FMSD	I		FM SD input
51	ST	I		ST signal input
52	IPPW	O	C	Power supply control output for IP BUS interface IC
53	ASENBO	O	C	Slave power supply control output
54,55	NC			Not used
56	IPDO	O	C	IP driver data output
57	IPDI	I		IP driver data input
58	NC			Not used
59	MUTE	O	C	Mute output
60	RESET	I		Reset input
61	RDSRDY	I		Ready input from RDS IC
62	BSENS	I		Back up power sense input
63	ASENS	I		ACC power sense input
64	NC			Not used
65	DSENS	I		Grille detach sense
66	EJECT	I		EJECT signal input
67	ADPW	O	C	Control output for analog input reference power

Pin No.	Pin Name	I/O	Format	Function and Operation
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			GND
72	XT2			Not used
73	TESTIN	I		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			GND
76	SL	I		SD level input from tuner
77	H/R IN	I		Remote control input
78-80	NC			Not used

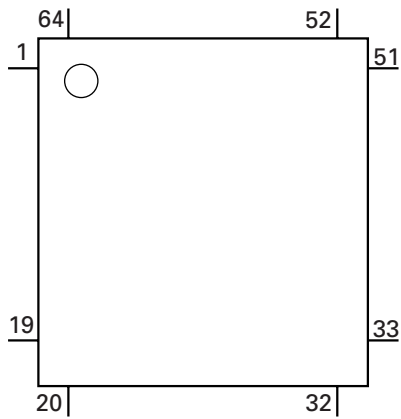
*PD4944A



Format	Meaning
C	C MOS
N	N channel open drain

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

*PD6273A



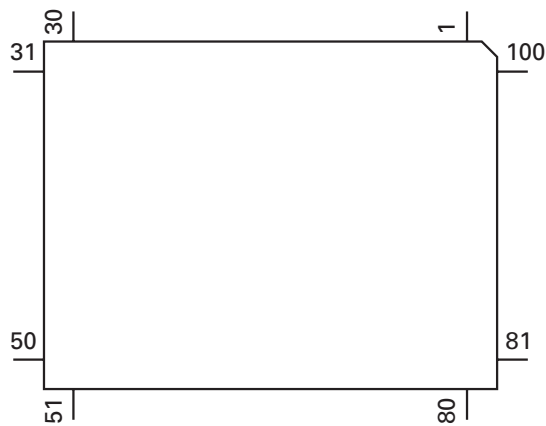
● Pin Functions (PD6273A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	PCK	O	N	PLL clock output
2	PDO	O	N	Data output for PLL IC
3	PDI	I		Data input from PLL IC
4	SL	I		SD level input from tuner
5	NL	I		Noise level input
6	MDSENS	I		Modulation detect input
7	SOUND	I		Audio signal input
8	RMUTE	O	N	RDS mute output
9-11	NC			Not used
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS	I		A/D GND
15	RDSSEL	O	C	Select output for RDS IC
16	RCK	O	C	FROM clock output
17	RDT	I		FROM data input
18	LDET	I		PLL lock sense input
19	RDSLK	I		RDS LK signal input
20	RDSRST	O	C	Reset output for RDS IC
21	MOD0	I		Operation mode appointment input
22	MOD1	I		Operation mode appointment input
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			GND
26	RESET	I		Reset input
27	L/S	O	C	Sensitivity of noise level select
28	CURRO	O		Tuner voltage FIX output
29	RDSRDY	O		Ready output from RDS IC
30	RECIVE	O	C	During RDS data reception output
31	CORR	O	C	Error output
32	ERROR	O	C	Disapprove of error correction output
33-38	NC			Not used
39	SK	I		SK signal input
40-49	NC			Not used
50	GND			GND
51	TEST	I		Test terminal
52	RDSCK	O	C	Serial clock for RDS IC
53	RDSDO0	O	C	Communication data output
54	IRDSDI	I		Communication data input
55	RDS57K	I		57kHzBP-OUT sense input
56	GD	O	C	Gate drive control output
57	VCC			Power supply
58	SD	I		SD input
59	PCE	O		Chip enable output
60-64	NC			Not used

● Pin Functions (PD4762A)

Pin No.	Pin Name	I/O	Function and Operation
1,2	NC		Not used
3	DPDT	I	Display data input
4	KYDT	O	Remote control data output
5	NC		Not used
6	GND		GND
7	X2		Crystal oscillator connection pin
8	X1		Crystal oscillator connection pin
9	VDD		Power supply
10	TESTIN	I	Test program mode input
11	NC		Not used
12	RESET	I	Reset input
13	RENIN	I	Remote control pulse input
14-18	NC		Not used
19-22	KDT3-0	I	Key data input
23-26	KST6-3	O	Key strobe output
27	AVSS	I	A/D GND
28-30	KST2-0	O	Key strobe output
31	VOLUP	I	Volume up input from encoder
32	VOLDN	I	Volume down input form encoder
33-35	NC		Not used
36	AVDD		Positive power supply terminal for analog circuit
37	AVREF		A/D converter reference voltage
38,39	NC		Not used
40	VSS		GND
41-50	NC		Not used
51-54	COM0-3	O	LCD common output
55	BIAS		LCD power supply
56-58	VLC0-2		LCD power supply
59	VSS		GND
60	NC		Not used
61-97	S37-1	O	LCD segment output
98-100	NC		Not used

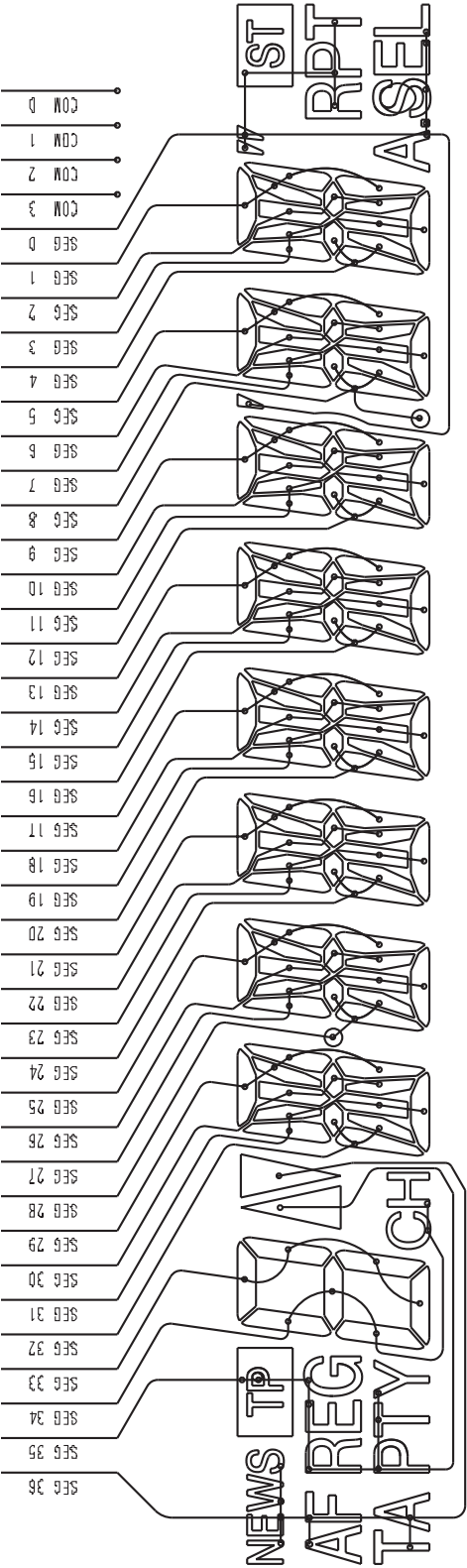
*PD4762A



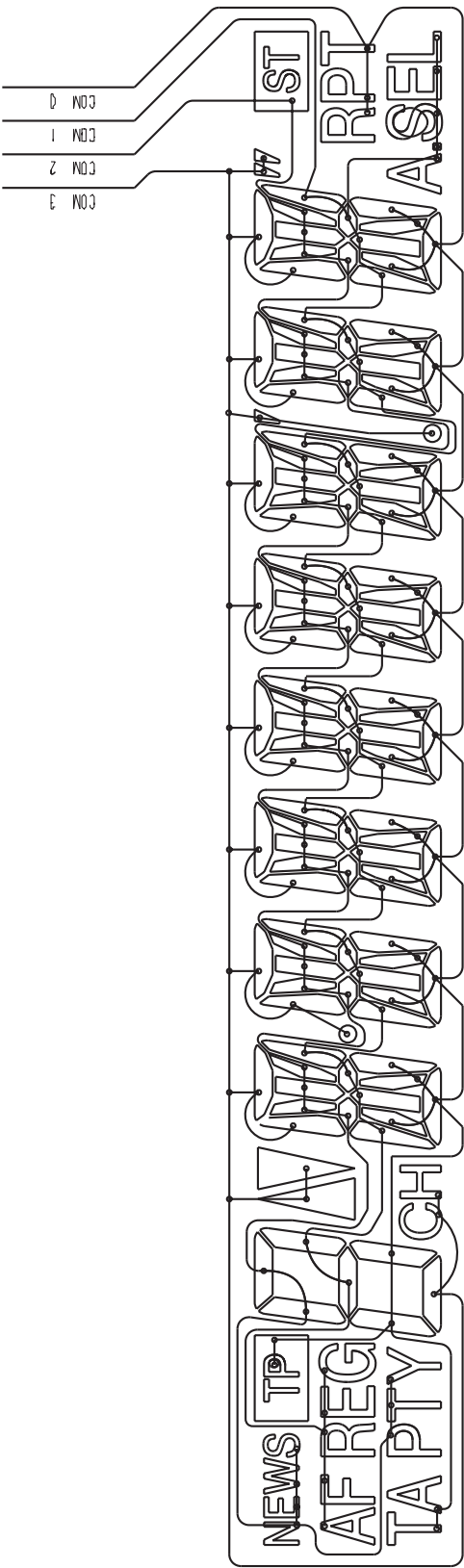
7.1.2 DISPLAY

● CAW1358

SEGMENT



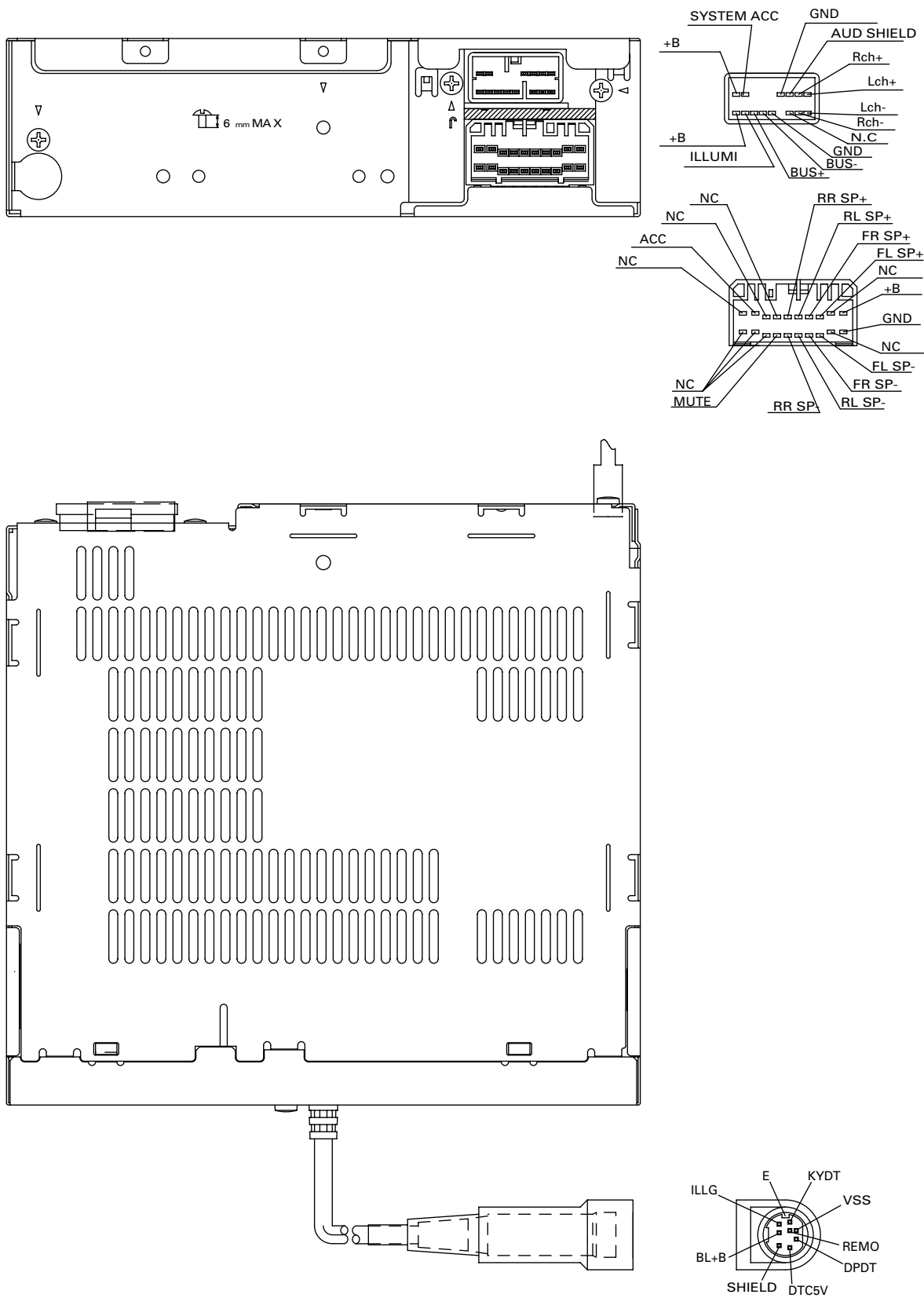
COMMON



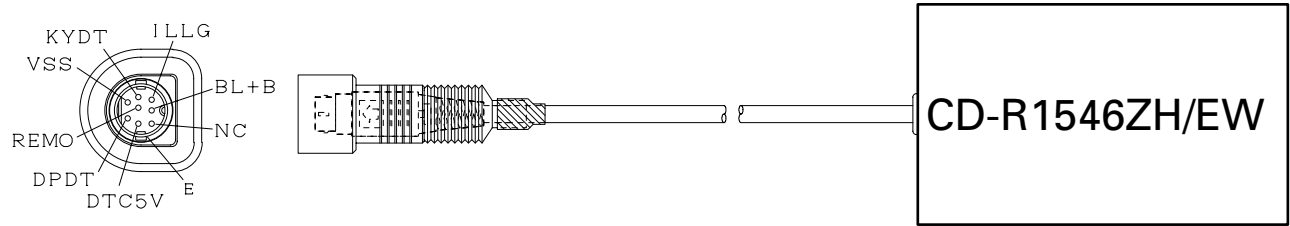
7.2 DIAGNOSIS

7.2.1 CONNECTOR FUNCTION DESCRIPTION

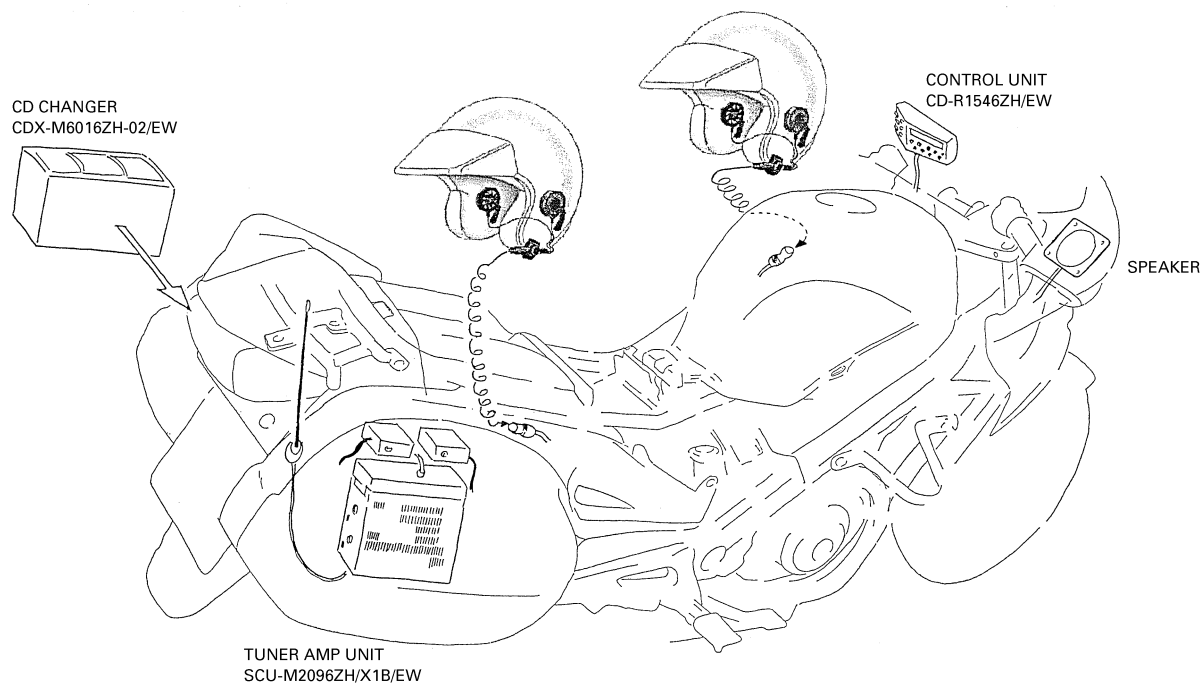
● SCU-M2096ZH



● CD-R1546ZH



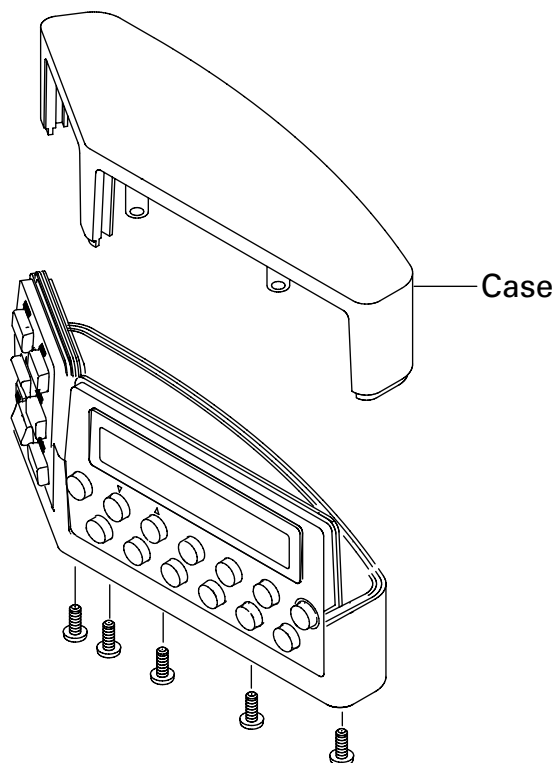
7.2.2 LOCATIONS



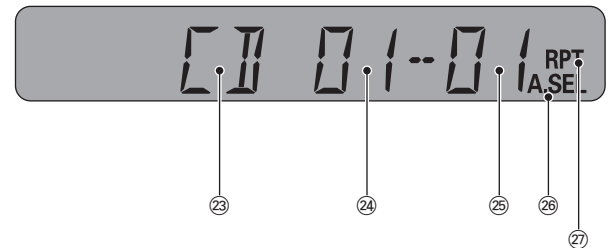
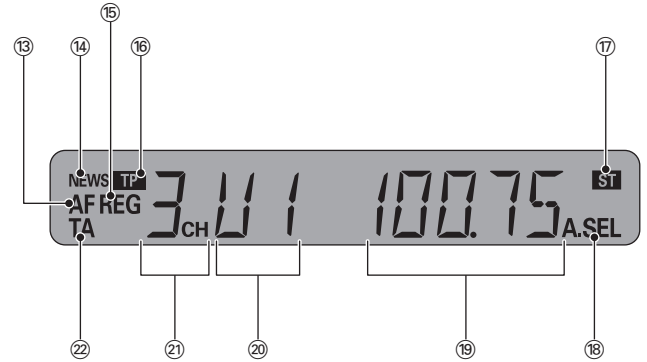
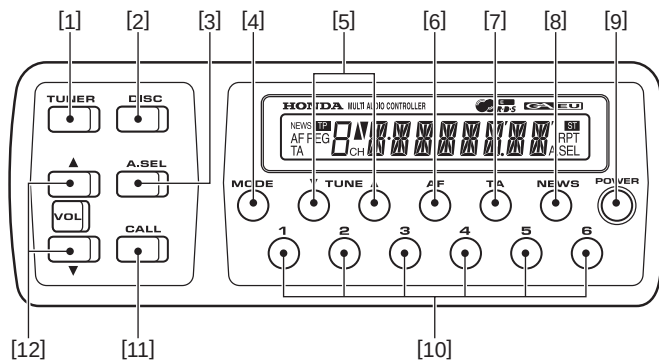
7.2.3 DISASSEMBLY

● Removing the Case(CD-R1546ZH)

1. Remove the five screws.
2. Remove the Case.



8. OPERATIONS AND SPECIFICATIONS



BUTTON ILLUSTRATIONS

The buttons used are shown for each item.

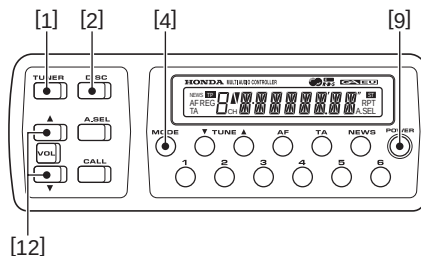
There are 2 ways of pressing a button, as indicated by the following illustrations.

 → Quick press and release immediately.

 → Press and hold for at least 0.5 seconds.

- The two numbers in the picture: 0.5 and 2, mean to press and hold those buttons for at least 0.5 or 2 seconds.

BASIC OPERATIONS



⚠ WARNING

- Keep both hands on the handlebars while riding.

SWITCHING POWER ON

Radio [1]  [9] 
When button [1] is pressed, the radio power is turned on. To turn off, press button [9].

CD [2]  [9] 
• The proper Honda CD changer (sold separately) is required to play CDs. Playing of a CD is started by pressing button [2], and stopped by pressing button [9].

SWITCHING POWER ON [9] 
If button [9] is pressed when the power is off, the power supply of the source before power was turned off is turned on.

ADJUSTING VOLUME [12] 

The volume is increased by pressing the (▲) side of button [12], and decreased by pressing the (▼) side. (Display shows "VOL 00" ~ "VOL 30".)


WARNING

- Do not turn up the volume level so loud that you cannot hear emergency vehicles or traffic.


CAUTION

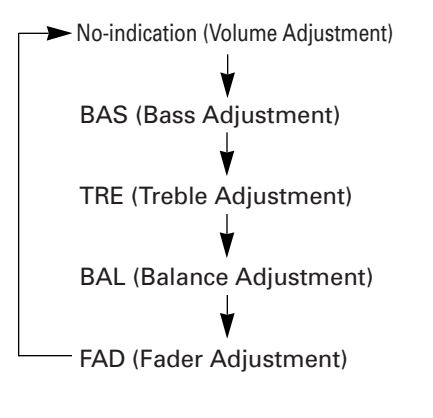
- Listening to the sound through headset for a long period of time with the maximum volume level may cause hearing damage.

Advice

- Use this audio system at a volume level that does not annoy other people.

ADJUSTING AUDIO [4]  **[12]** 

Press button [4] to switch to the mode in which you want to make the adjustment, and make the adjustment using button [12]. The adjustment mode changes each time button [4] is pressed, as shown below.



Advice

- When bass, treble, balance and fader adjustments are made, a beep will be heard at the center position. The adjustment mode is canceled approximately 5 seconds after an adjustment is made.

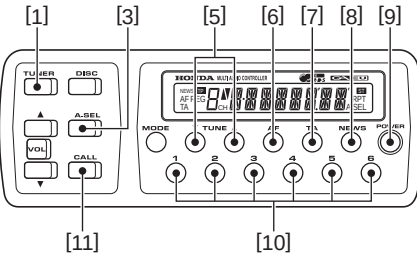
Adjusting the Fader

This function lets you adjust the balance between rider speaker/headset and passenger headset volume levels. Select the fader adjustment mode. If you press the (▲) side of button [12] the balance gradually changes until sound is output from the rider speaker/headset only. If you press the (▼) side of button [12] the balance gradually changes until sound is output from the passenger headset only. (Display shows "FAD F9" ~ "FAD R9".)

Advice

- When not using the passenger headset, the setting should be "FAD F9" ~ "FAD 0".

USING THE RADIO




WARNING

- Keep both hands on the handlebars while riding.

Adjusting Bass

Select the bass adjustment mode. Bass intensity is gradually increased by pressing the (▲) side of button [12], and decreased by pressing the (▼) side. (Display shows "BAS -6" ~ "BAS 6".)

Adjusting Treble

Select the treble adjustment mode. Treble intensity is gradually increased by pressing the (▲) side of button [12], and decreased by pressing the (▼) side. (Display shows "TRE -6" ~ "TRE 6".)

Adjusting Balance

Select the balance adjustment mode. The balance is gradually changed to left speaker sound only, by pressing the (▼) side of button [12], and to right speaker sound only, by pressing the (▲) side. (Display shows "BAL L9" ~ "BAL R9".)

LISTENING TO THE RADIO [1]  **[9]** 

When button [1] is pressed, the radio power is turned on and the Band ⑳ and Frequency ⑲ are displayed. To turn the radio off, press button [9].

CHANGING THE BAND [1] 

The band is selected by pressing button [1] repeatedly. Each time the button is pressed, the band changes in the following order.

U1 (FM1) – U2(FM2) – UT(FMT) – M/L(MW/LW)



Advice

- During MW/LW reception, engine noise may drown out the broadcast so that you cannot hear it.

AUTOMATIC TUNING [5]

The radio automatically tunes in to a station with a strong signal above a certain level. Press (▼) or (▲) button [5].

MANUAL TUNING [7] [5]

This is useful for tuning in to a station with a very weak signal that cannot be picked up with automatic tuning.

1. Continue pressing button [7] for 2 or more seconds. (Until you hear a beep.)
2. Select a station by pressing the (▼) or (▲) side of button [5].
If you do not press a button for more than 10 seconds, you will hear a beep and automatically be returned to AUTOMATIC TUNING mode.

Advice

- When returning to automatic tuning, continue pressing button [7] for 2 seconds or more once again. (Until you hear a beep.)

MEMORIZING STATIONS (PRESET MEMORY)

A selected station is memorized in one of buttons [10].

Memorizing a Station [10]

Choose one of buttons [10], and hold it down until you hear a beep (about 2 seconds). The preset number ② will light, and the station will be memorized in the chosen button.

Advice

- The radio cannot be heard while the button is being held down.

Recalling a Station (Direct Recall) [10]

When the button [10] is pressed again after a station has been memorized, the radio will be tuned to the station stored in that button. The number of the pressed button lights in ② on the display.

Recalling a Station (Sequential Recall) [11]

Each time you press button [11], stations stored in the buttons [10] are recalled in order.

AUTO SELECT [1] [3]

Broadcasts of high output stations can be memorized in button [10] of UT (FMT) band according to the following procedure.

1. Press button [1] to switch over band to U1, U2 or UT.
2. Press button [3] to start automatic memorization of high output stations. Through automatic memorization operation, "A.SEL" ⑩ is displayed. ("A-SEL" flashes ⑪.)

Advice

- There is no audio output in automatic memorizing operation.
- When automatic memorization is started with U1/U2 band, the same is performed for UT band that is automatically switched on to follow U1 and U2 bands.
- Automatic memorization cannot be activated for MW and LW bands.

3. With completion of general automatic memorization, "A.SEL" ⑩ goes out and the radio receives broadcast of the highest output station.

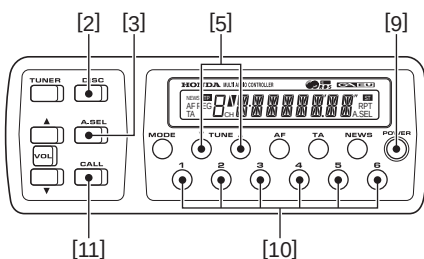
OTHER FUNCTIONS

Stereo Indicator

When the radio is tuned to an FM stereo station, "ST" ⑰ will be displayed.

PLAYING CD

- The proper Honda CD changer (sold separately) is required to play CDs.



⚠ WARNING

- Keep both hands on the handlebars while riding.

LISTENING TO A CD [2] [9]

When button [2] is pressed, CD playback starts and the disc number ⑳, track number ㉑ and "CD" ㉒ appear on the display. Playback is stopped by pressing button [9].

Advice

- If there is no magazine in the CD changer, "EJECT" will appear on the display.

SELECTING A DISC [10]

Press the button in [10] with the same number as the number of the disc you want to play.

Advice

- There is a delay of several seconds before the music starts after pressing the button, due to the disc changeover operation.

TRACK SELECTION (TRACK NUMBER SEARCH) [5] [11]

Press the (▼) or (▲) side of button [5] for a moment (less than 0.5 seconds), and press the button repeatedly until you reach the track you want to play. Each time you press button [11], tracks change in order.

FAST FORWARD AND REVERSE [5]

Press the (▼) or (▲) side of button [5] until you hear a beep (0.5 seconds or more).

Advice

- Playback can be heard during fast-forwarding or reversing.
- Fast-forwarding or reversing is performed only as long as the button is pressed.

SPECIFICATIONS

GENERAL

Power source	13.2 V DC (10.8 — 15.2 V allowable)
Grounding system	Negative type
Current consumption	3 A
Dimensions	
Controller	154 (W) × 60 (H) × 48 (D) mm
Radio unit	178 (W) × 50 (H) × 169 (D) mm
Weight	
Controller	0.3 kg
Radio unit	0.9 kg

AMPLIFIER

Maximum power output	20 W × 2
Continuous power output	14 W × 2
	(DIN453241, +B = 14.4 V)
Load impedance	4 Ω (4 — 8 Ω allowable)
Tone controls (bass)	±12 dB (100 Hz)
(treble)	±12 dB (10 kHz)
(Speaker	4 Ω (20 W × 2))
Headset	16 Ω (0.5 W × 4))

FM TUNER

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (mono. S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (mono)
S/N ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW TUNER

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

LW TUNER

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

Note:

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