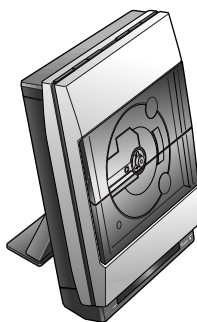


Service Manual

Pioneer



ORDER NO.
RRV2319

STEREO CD TUNER

XC-F10

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	XC-F10		
ZVYXJ	○	DC power supplied from other system component	

- This product is a system(s) component.
This product does not function properly independently ; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.
- Please connect it to the STEREO POWER AMPLIFIER M-F10, for adjustment and operation inspection.
- This product's instructions are contained within the instruction manual of the related system component(s).
The manual is packed with those component(s).
This product's accessories etc. are packed with its related component(s).

Component	Model	Service manual	Remarks
STEREO CD TUNER	XC-F10	RRV2319	This manual.
STEREO POWER AMPLIFIER	M-F10	RRV2321	
SPEAKER SYSTEM	S-F10-LRW	RRV2330	
STEREO CASSETTE DECK	CT-F10	RRV2308	

CONTENTS

1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	32
2. EXPLODED VIEWS AND PARTS LIST	3	7.1 DIAGNOSIS	32
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM	6	7.1.1 DISASSEMBLY	32
4. PCB CONNECTION DIAGRAM	18	7.1.2 SINGLE OPERATION METHOD	35
5. PCB PARTS LIST	25	7.2 PARTS	36
6. ADJUSTMENT	29	7.2.1 IC	36
		7.2.2 DISPLAY	40
		8. PANEL FACILITIES AND SPECIFICATIONS	41

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
 © PIONEER CORPORATION 2000

1. SAFETY INFORMATION

LITHIUM BATTERY NOTICE

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded views.

ADVARSEL!

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning.

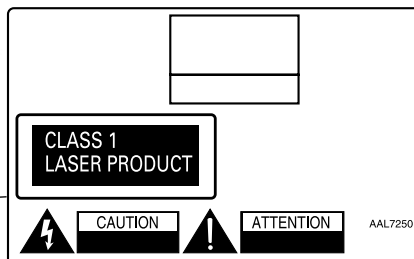
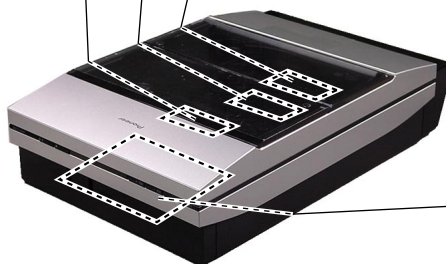
Batterierne må kun udskiftes med batterier af samme type og mærke.

LABEL CHECK

CAUTION
INVISIBLE LASER
RADIATION WHEN OPEN,
AVOID EXPOSURE
TO BEAM PRW1018

VARO!
Avattaessa ja suojelukitus ohitetta-
essa olet alttiina näkymättömälle
lasersäteilylle. Älä katso säteeseen.
VARO!
Osynlig laserstrålning när denna del
är öppnad och spärren är urkopplad.
Betrakta ej strålen. PRW1233

ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAF-
BRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSICHTBARE LASER-STRÄHLUNG TRITZ AUS, WENN DECKEL
(ODER KLASPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN! VRW1094



Additional Laser Caution

- Laser Interlock Mechanism**
The position of the switch (S5907) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S5907) is not on CLOSE terminal side (CDO/C signal is high level).
Thus, the interlock will no longer function if the switch (S5907) deliberately set to CLOSE terminal side (low level).
The interlock also does not function in the test mode*.
Laser diode oscillation will continue, if pin 9 of TA2150FN (IC1101) on the SELF-CHECK CD ASSY is connected to GND, or pin 10 is connected to low level (ON), or else the terminals of Q1101 are shorted to each other (fault condition).
- When the DOOR WINDOW is removed, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* : Refer to page 29.

IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1. SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

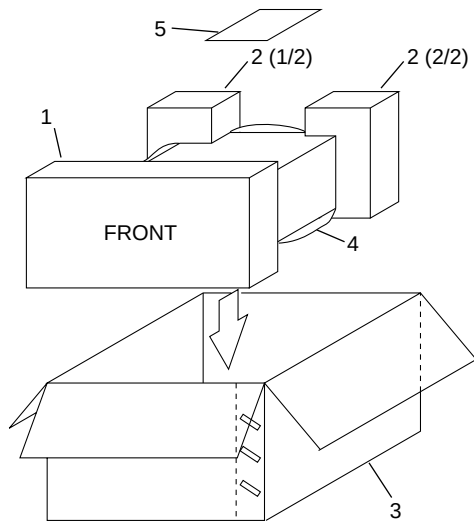
LASER DIODE CHARACTERISTICS

MAXIMUM OUTPUT POWER: 5 mW
WAVELENGTH: 780 – 785 nm

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
● Screws adjacent to $\blacktriangledown$ mark on the product are used for disassembly.

2.1 PACKING

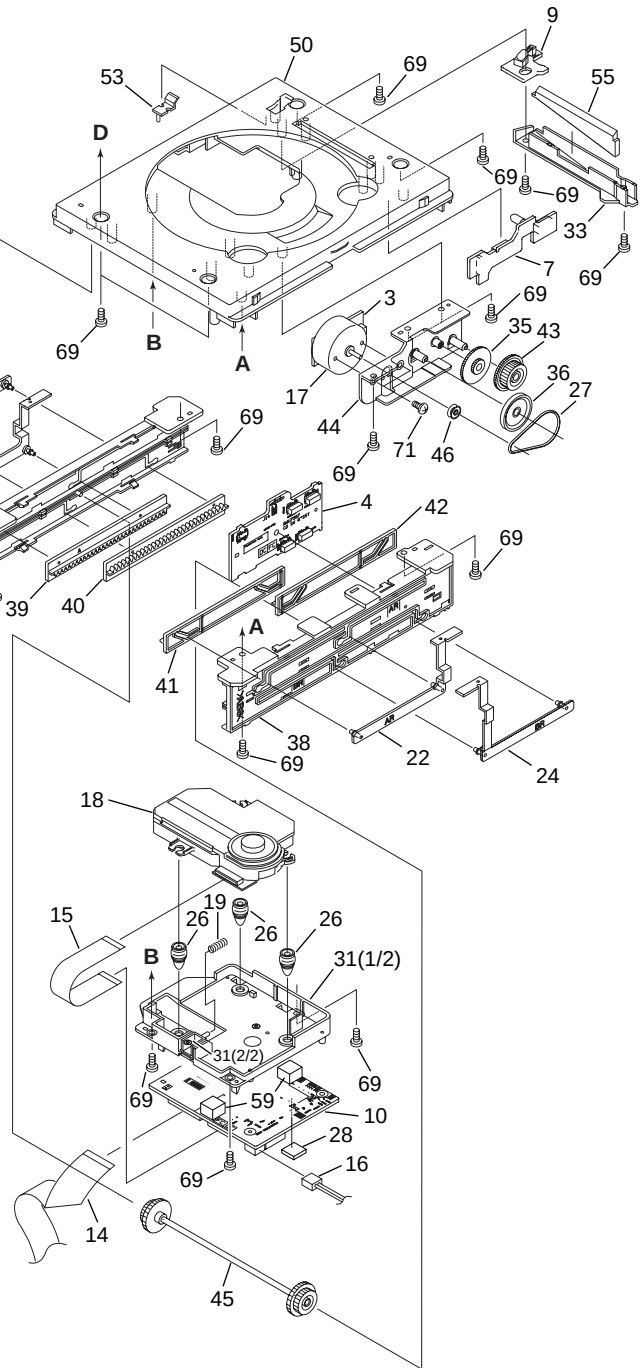


● PACKING PARTS LIST

Mark	No.	Description	Part No.
	1	Front Pad M	AHA7295
	2	Rear Pad M	AHA7296
	3	Packing Case CD/ZVY	AHD7894
	4	Sheet	Z23-026
	5	Stand Note	ARM7044

This exploded view diagram illustrates the assembly of a device chassis. The components are numbered as follows:

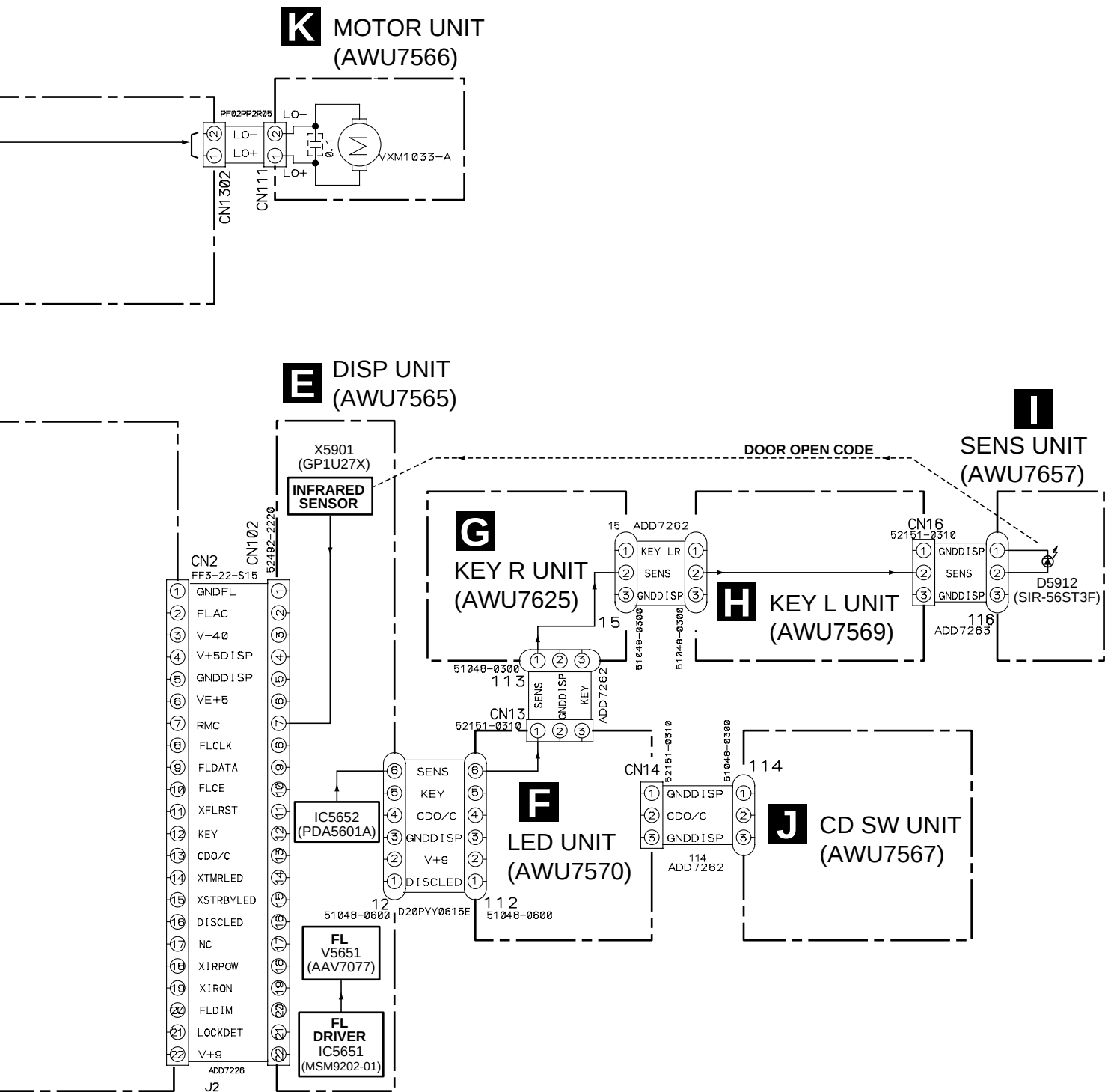
- Top Cover/Panel:** 48, 49, 57, 58
- Internal Frame/Support:** 56, 62, 63, 64, 65, 66, 67
- Front Panel/Door:** 52, 54, 60, 61, 72
- Internal Components:** 2, 5, 6, 8, 11, 12, 13, 20, 21, 23, 25, 29, 30, 32, 34(1/2), 34(2/2), 37, 47(1/4), 47(2/4), 47(3/4), 47(4/4), 51, 68
- Fasteners:** 69 (screws), 70 (screw)
- Assembly Indicators:** Arrows labeled 'C' and 'D' indicate the direction of assembly for the front panel and top cover, respectively.



• EXTERIOR PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	MAIN UNIT	AWU7564		36	Gear Pulley A	ANW7066
	2	DISP UNIT	AWU7565		37	Cam Base L	ANW7196
	3	MOTOR UNIT	AWU7566		38	Cam Base R	ANW7197
	4	CD SW UNIT	AWU7567		39	Slide Cam A	ANW7198
	5	AUX UNIT	AWU7568		40	Slide Cam B	ANW7199
	6	KEY L UNIT	AWU7569		41	Slide Cam C	ANW7200
	7	LED UNIT	AWU7570		42	Slide Cam D	ANW7201
	8	KEY R UNIT	AWU7625		43	Gear N	ANW7203
	9	SENS UNIT	AWU7657		44	Gear Holder	ANW7205
NSP	10	SELF-CHACK CD ASSY	AWP7027		45	Shaft Assy	AXG7095
	11	FM/AM TUNER MODULE	AXQ7229		46	Motor Pulley	PNW1634
	12	13P FFC/30V (J1)	ADD7225		47	Button CD	AAD7581
	13	22P FFC/30V (J2)	ADD7226		48	Door Window A	AAK7748
	14	24P FFC/30V (J5)	ADD7227		49	Door Window B	AAK7749
	15	16P FFC/30V (J1101)	ADD7245		50	Sub Panel CD	AAK7755
	16	CONNECTOR ASSY (J111)	PF02PP2R05		51	Rear Cap CD	AAK7758
	17	Slider Motor	VXM1033		52	FL Window CD	AAK7773
	18	CD Mecha	KSM-770ABA		53	Lens	AAK7806
	19	Float Spring	ABH7191		54	FL Cover	AAK7841
NSP	20	Bottom Chassis CD	ANA7107		55	Disc Lens	AAK7847
	21	Door Angle AL	ANG7306		56	Side Line	AAP7074
	22	Door Angle AR	ANG7307		57	Rear Line CD	AAP7075
	23	Door Angle BL	ANG7308		58	Screw	ABA7061
	24	Door Angle BR	ANG7309		59	PCB Spacer	AEB7206
	25	Leg	AEB7090		60	FL Filter	AEC7273
	26	Float Rubber	AEB7129		61	Bottom Base CDMD	AMA7017
	27	Belt	AEB7171		62	Top Panel CD	AMB7699
NSP	28	Leg	AEB7200	NSP	63	Name Label(Pap)CD/ZY	AAL7250
	29	Barrier	AEC7288		64	Connector Label CD/E	ARW7093
	30	Chassis Sheet	AEC7290		65	Caution Label	PRW1018
	31	Mecha Holder	AMR7311		66	Caution Label	PRW1233
	32	FL Holder	AMR7312		67	Caution Label	VRW1094
	33	Reflector	AMR7313		68	Screw	BBZ30P080FMC
	34	FFC Barrier	AMR7314		69	Screw	BPZ30P080FZK
	35	Gear A	ANW7063		70	Screw	BPZ30P120FMC
					71	Screw	PMZ26P040FMC
					72	Screw	VBZ30P100FZK

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



A

B

C

D

Notes

1. RESISTORS

Indicated in Ω , $1/16W \pm 5\%$ Tolerance unless otherwise noted K:K Ω , M:M Ω .

2. CAPACITORS

Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.

3. DIODES

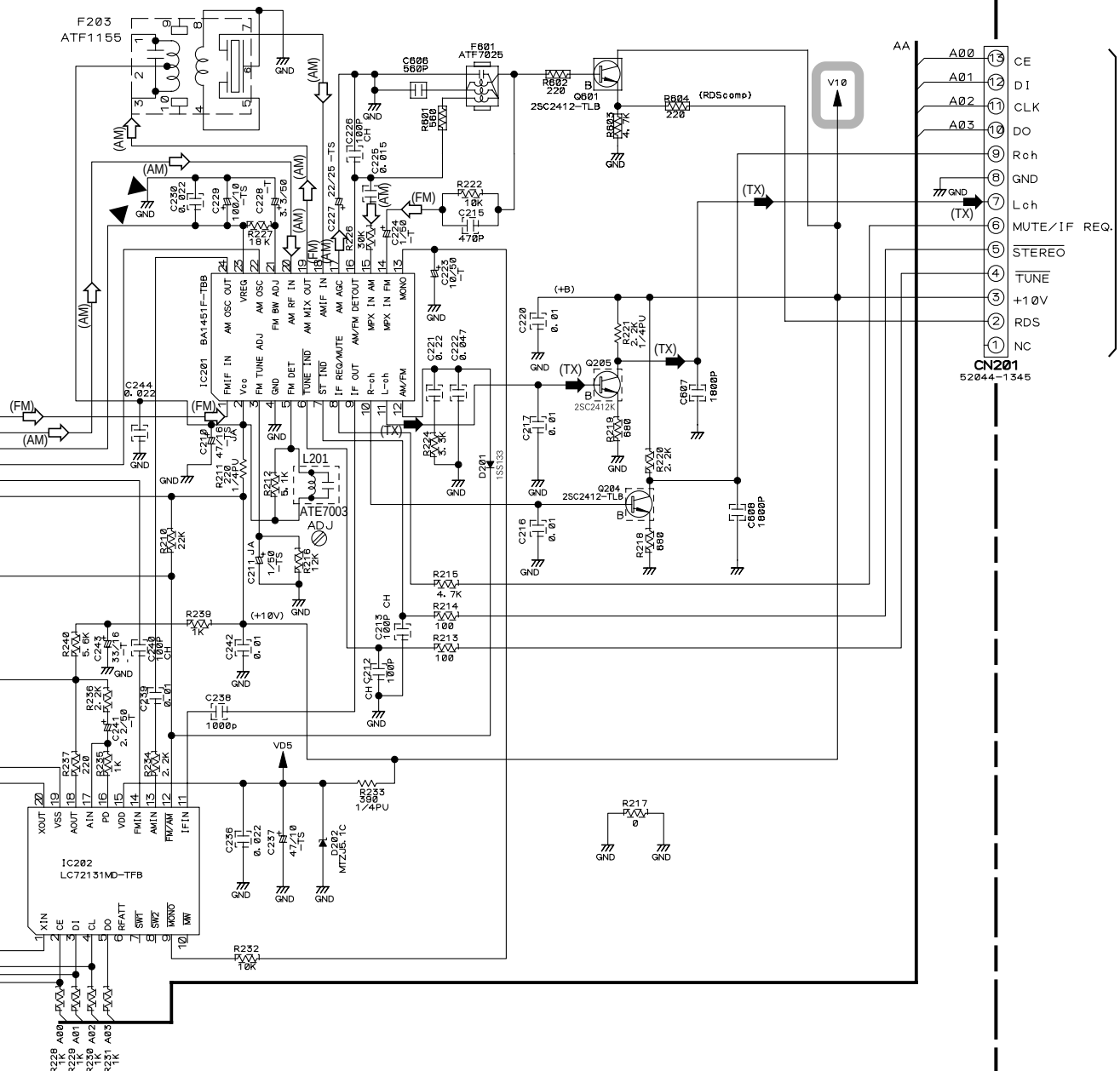
No mark diode is 1SS133.

 : The power supply is shown with the marked box.

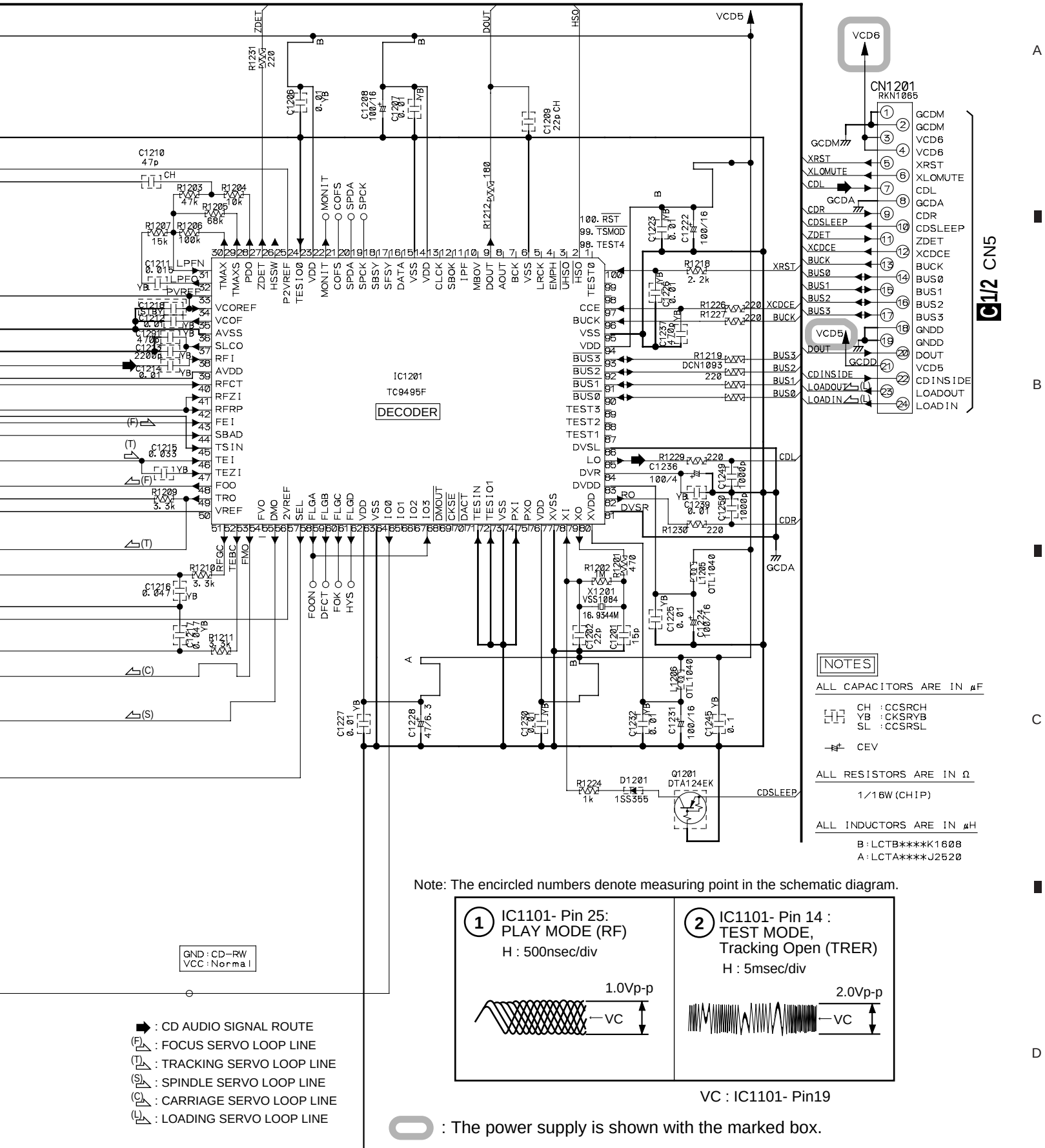
(TX)  : AUDIO SIGNAL ROUTE (TUNER)

(AM)  : AM SIGNAL ROUTE

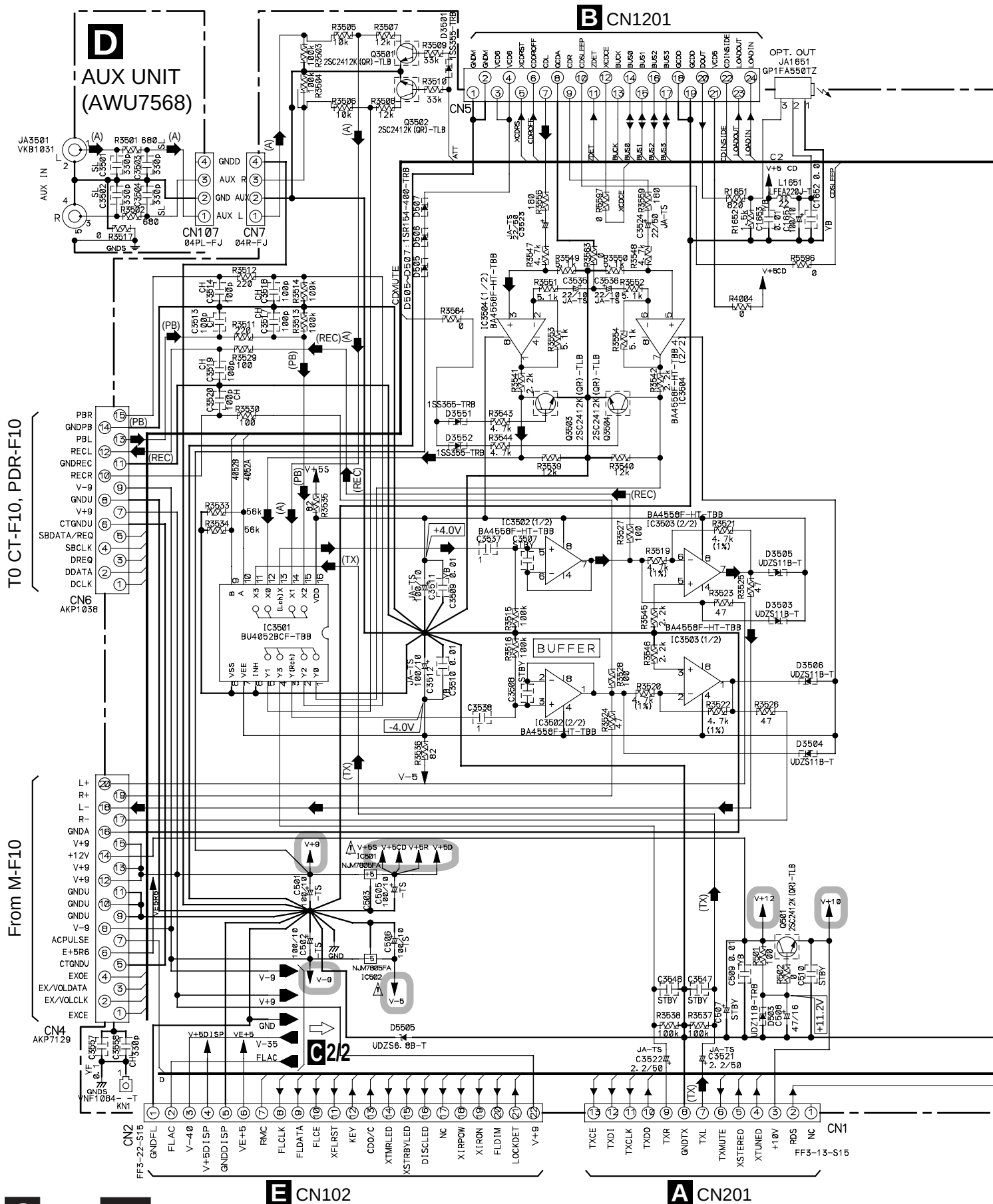
(FM)  : FM SIGNAL ROUTE

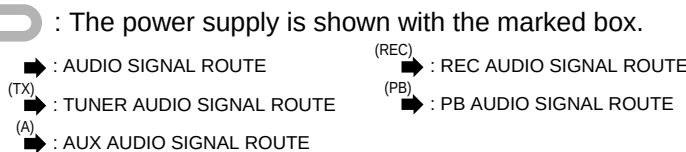


C1/2 CN1



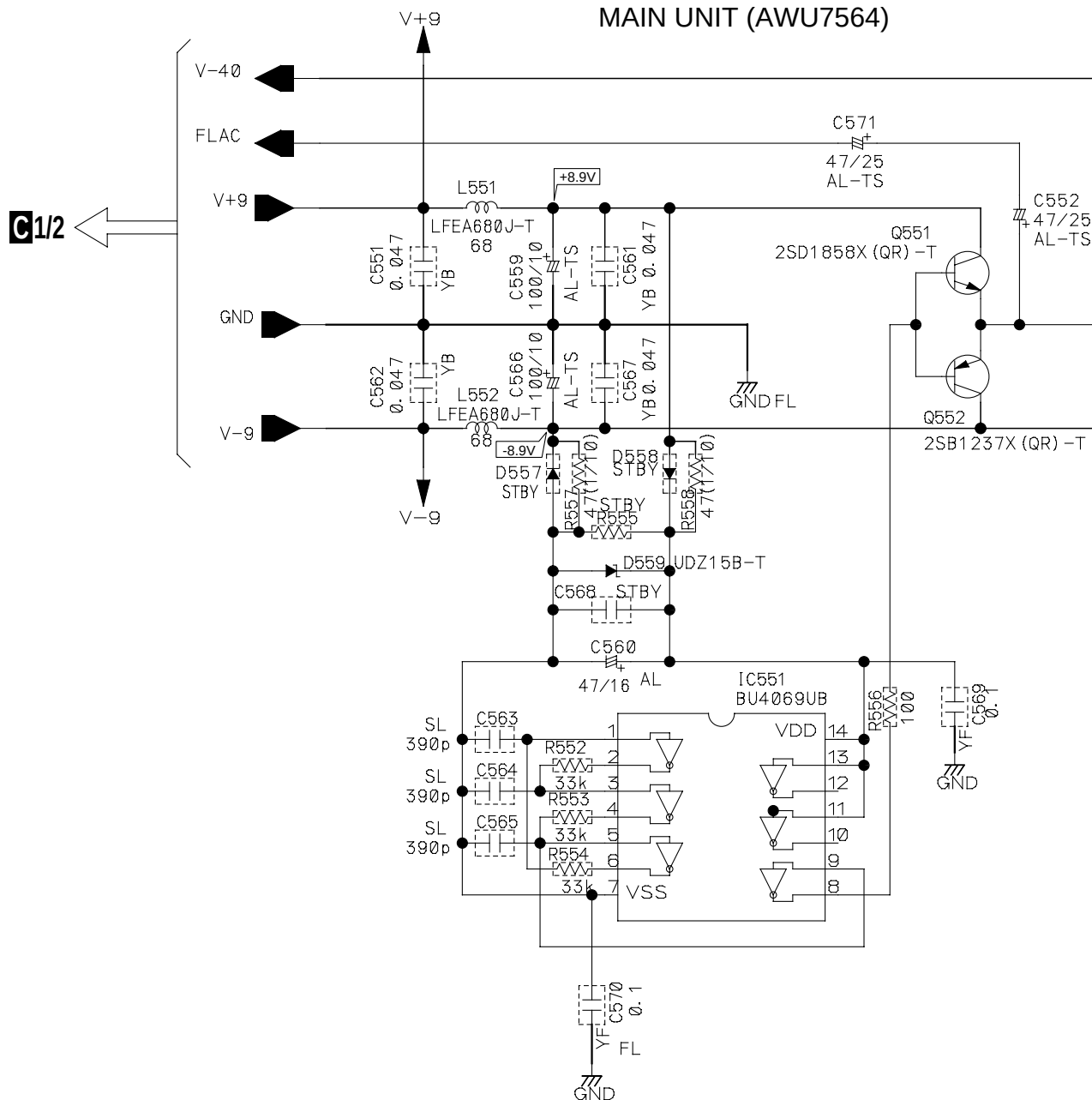
3.4 MAIN (1/2) and AUX UNITS

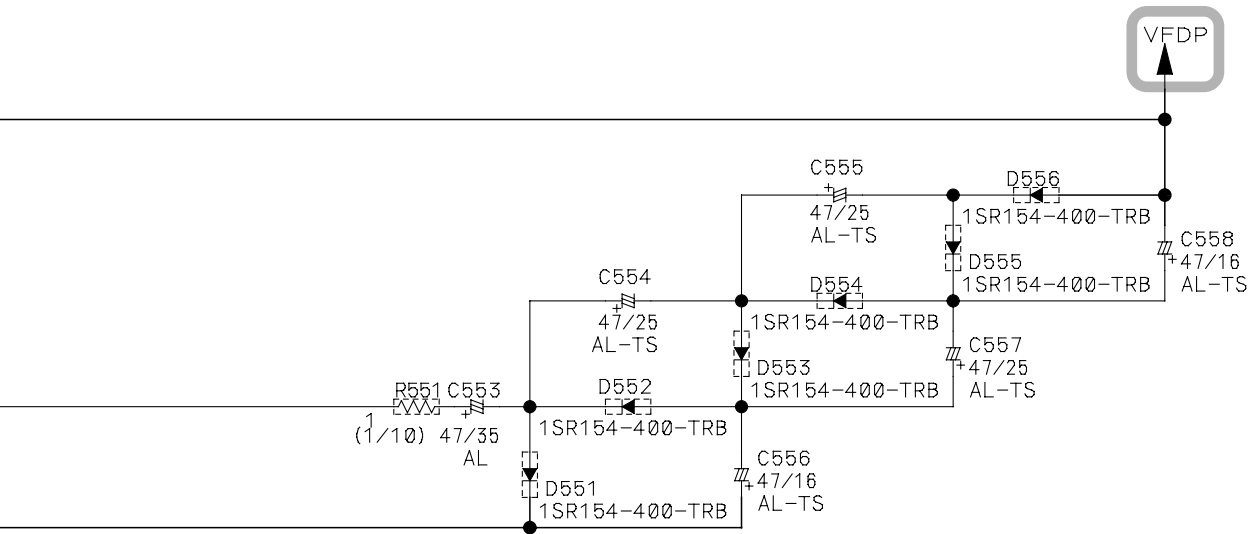




3.5 MAIN (2/2) UNIT

C2/2
MAIN UNIT (AWU7564)





 : The power supply is shown with the marked box.

Note

Capacitors Unmarked Unit : μF

Resistors Unit : Ω

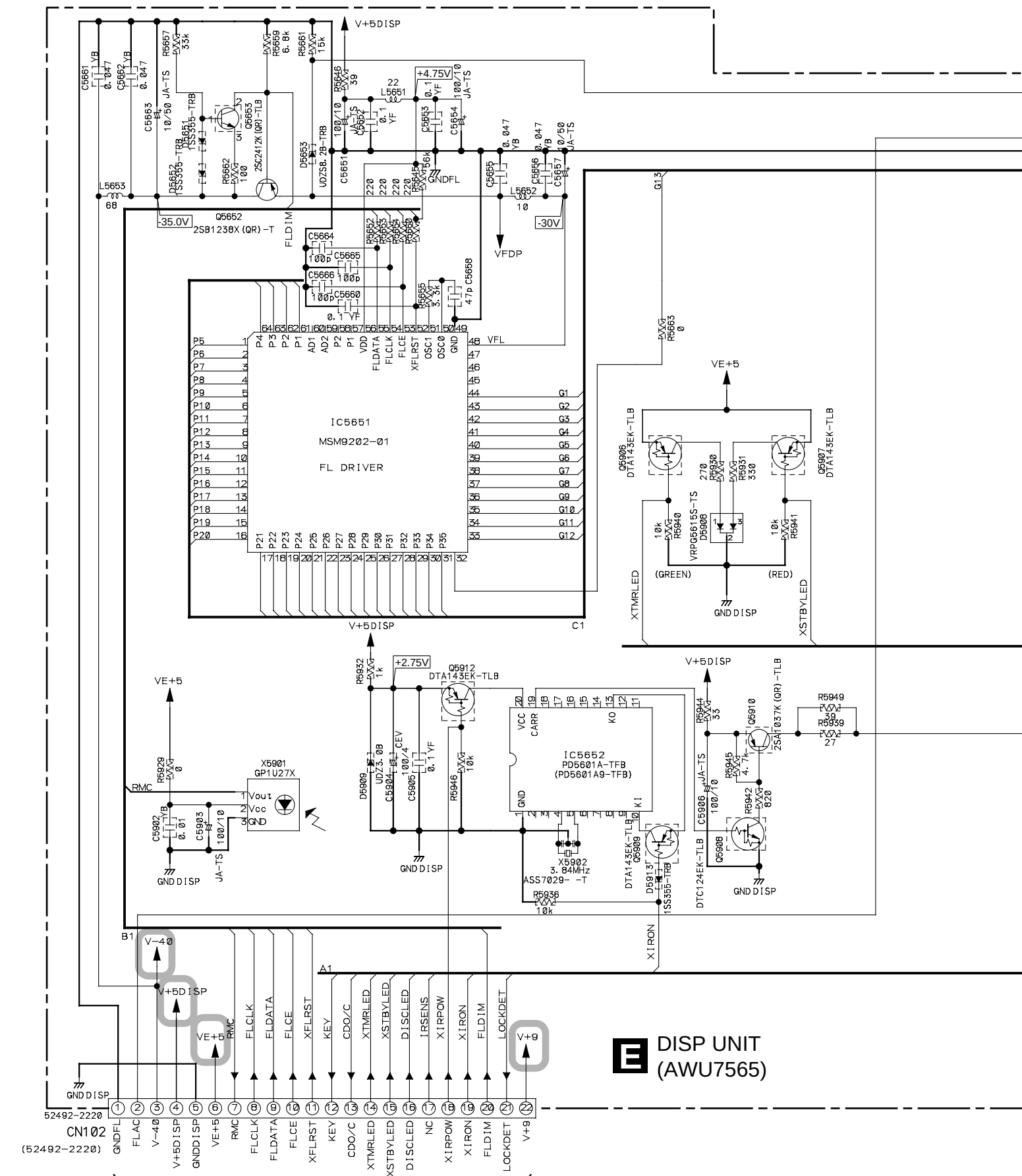
 CH : CCSQCH
YF : CKSQYF
YB : CKSQYB

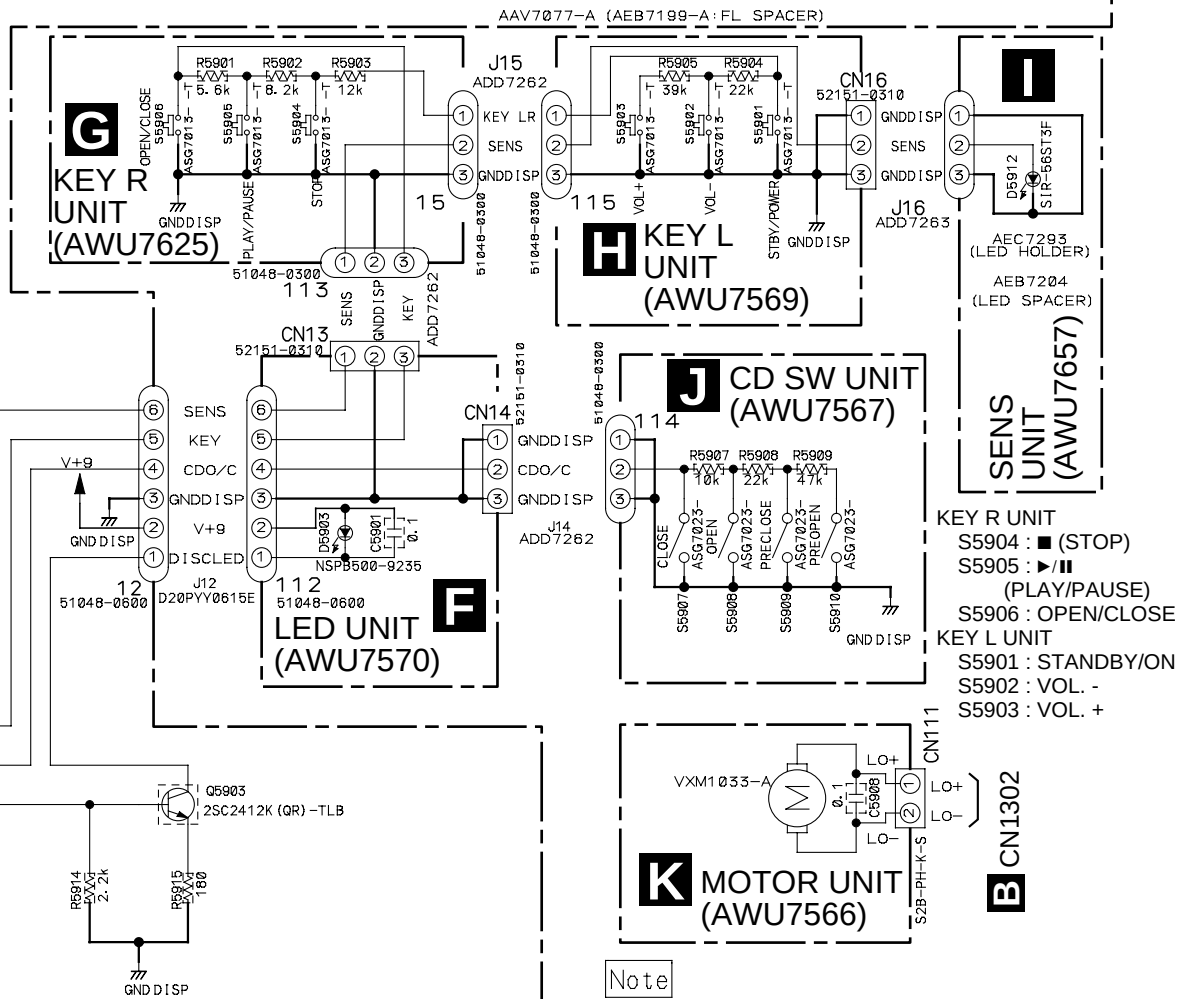
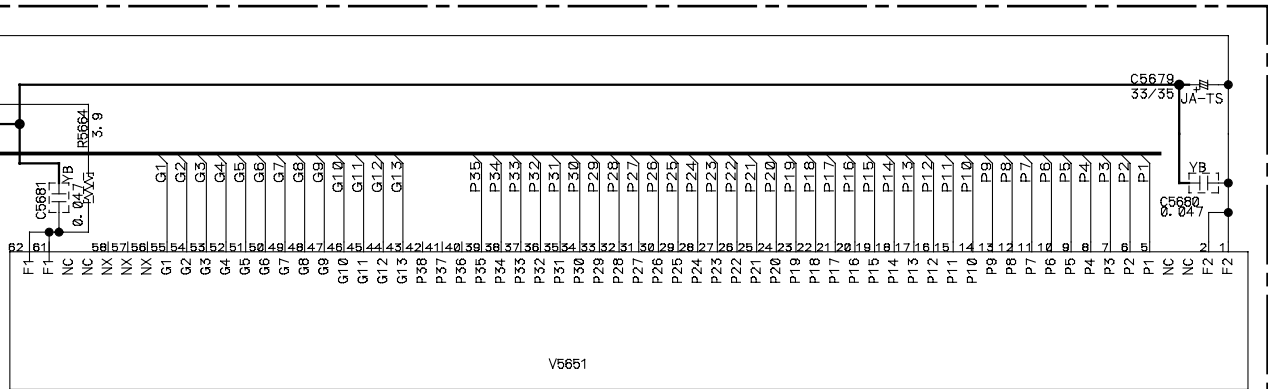
 : 1/10W

 AL : CEAL
JA : CEJA
Unmarked Capacitors CEAT

 CEV : CEV

3.6 DISP, LED, KEY R, KEY L, SENS, CD SW and MOTOR UNITS





Note

Capacitors Unmarked Unit: μF Resistors Unit: Ω 

CH: CCSQCH
YF: CKSQYF
YB: CKSQYB

Ratio: 1/10W



AL: CEAL
JA: CEJA

Unmarked Capacitors CEAT

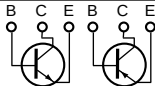
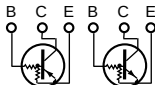
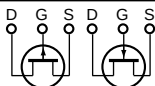
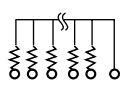
CEV: CEV

: The power supply is shown with the marked box.

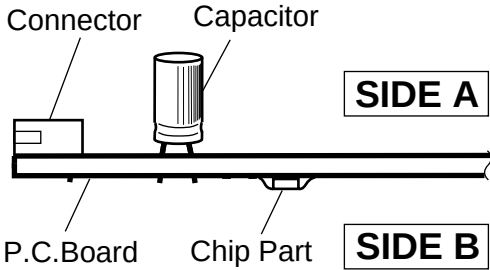
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

- 3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



AFM/AM TUNER MODULE



IC201

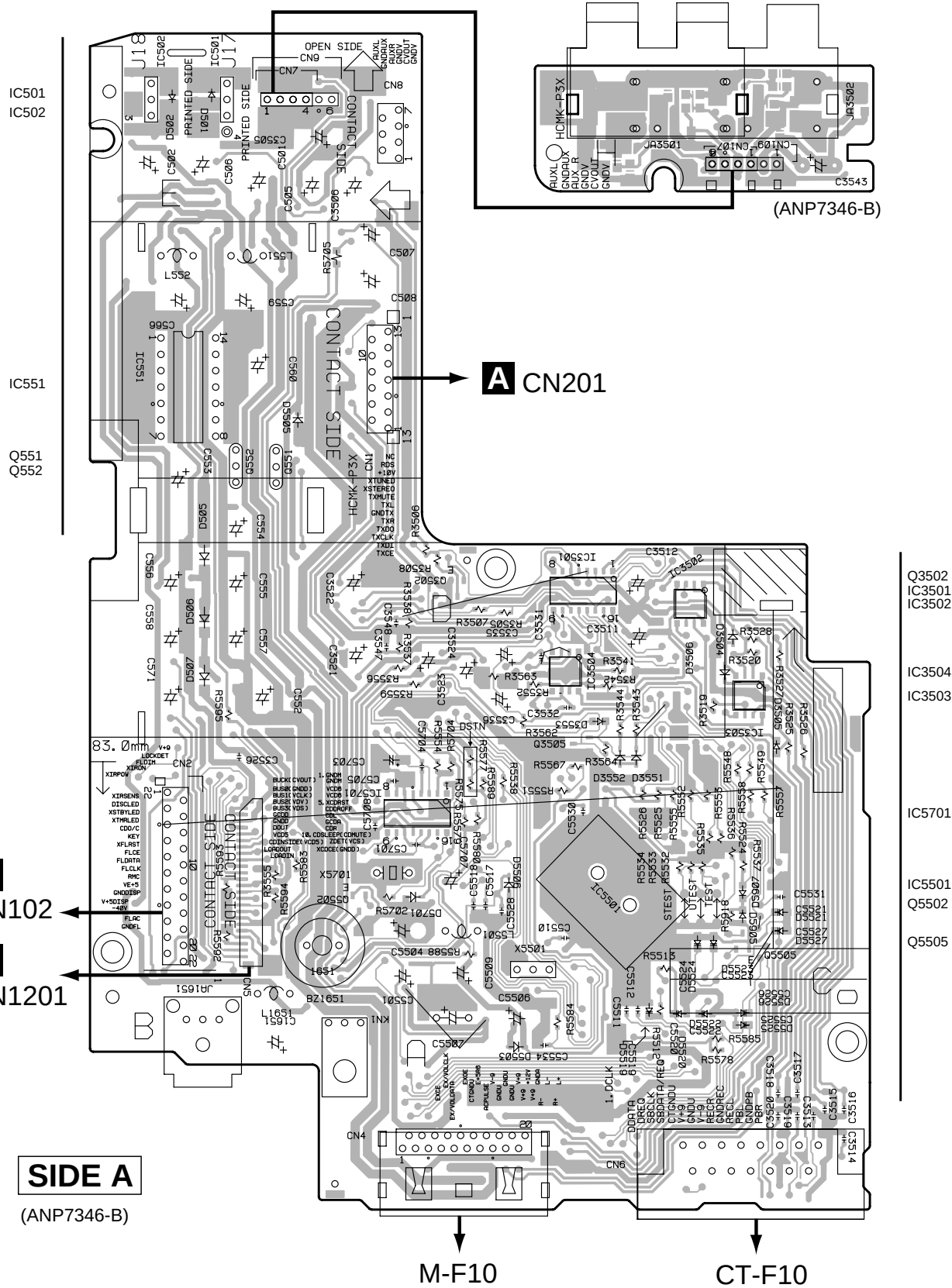
O203

Q205

4.2 MAIN and AUX UNITS

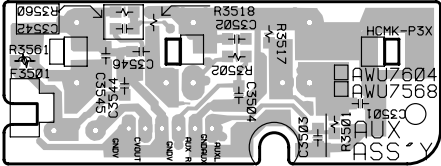
C MAIN UNIT

D AUX UNIT

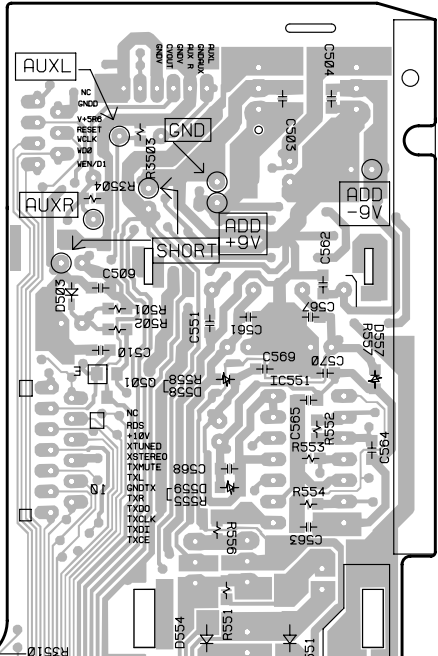


D AUX UNIT

C MAIN UNIT



(ANP7346-B)



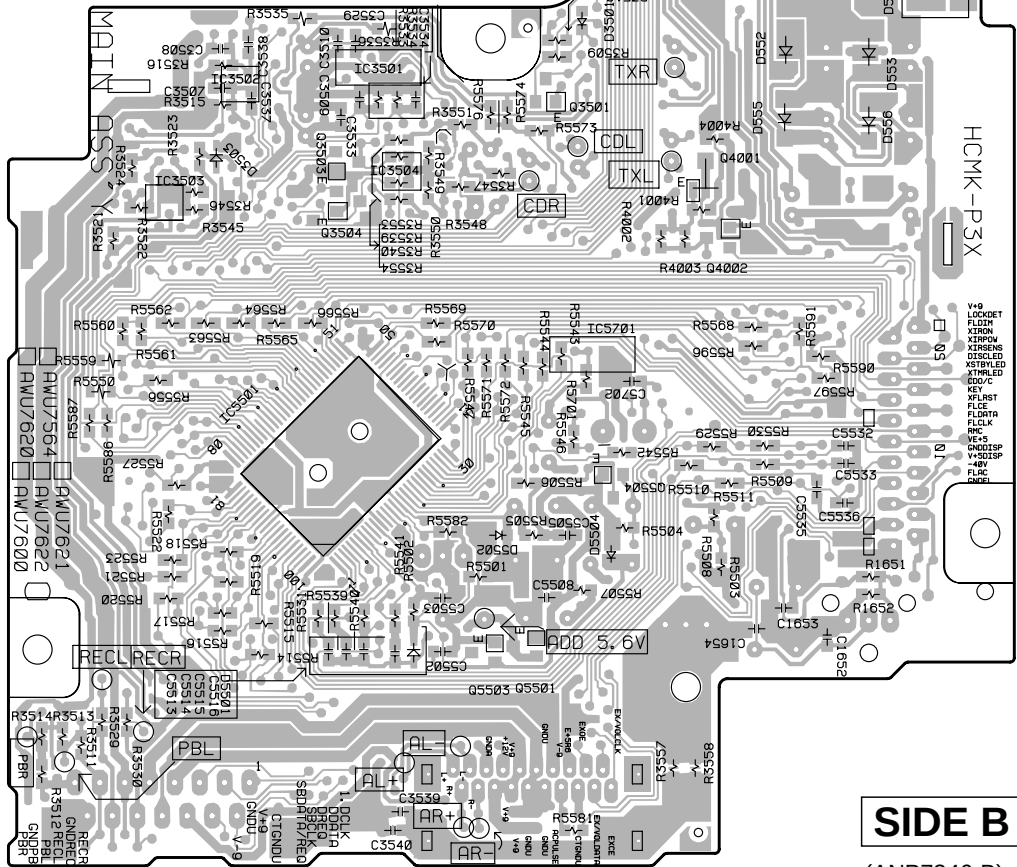
Q501
IC551

Q3501

Q3503
Q4001
Q3504
Q4002

IC5501
Q5504

Q5501
Q5503



SIDE B

(ANP7346-B)

4.3 DISP, LED, KEYR, KEYL, SENS and CD SW UNITS

■ DISP UNIT

SIDE A

(ANP7346-B)

F LED UNIT

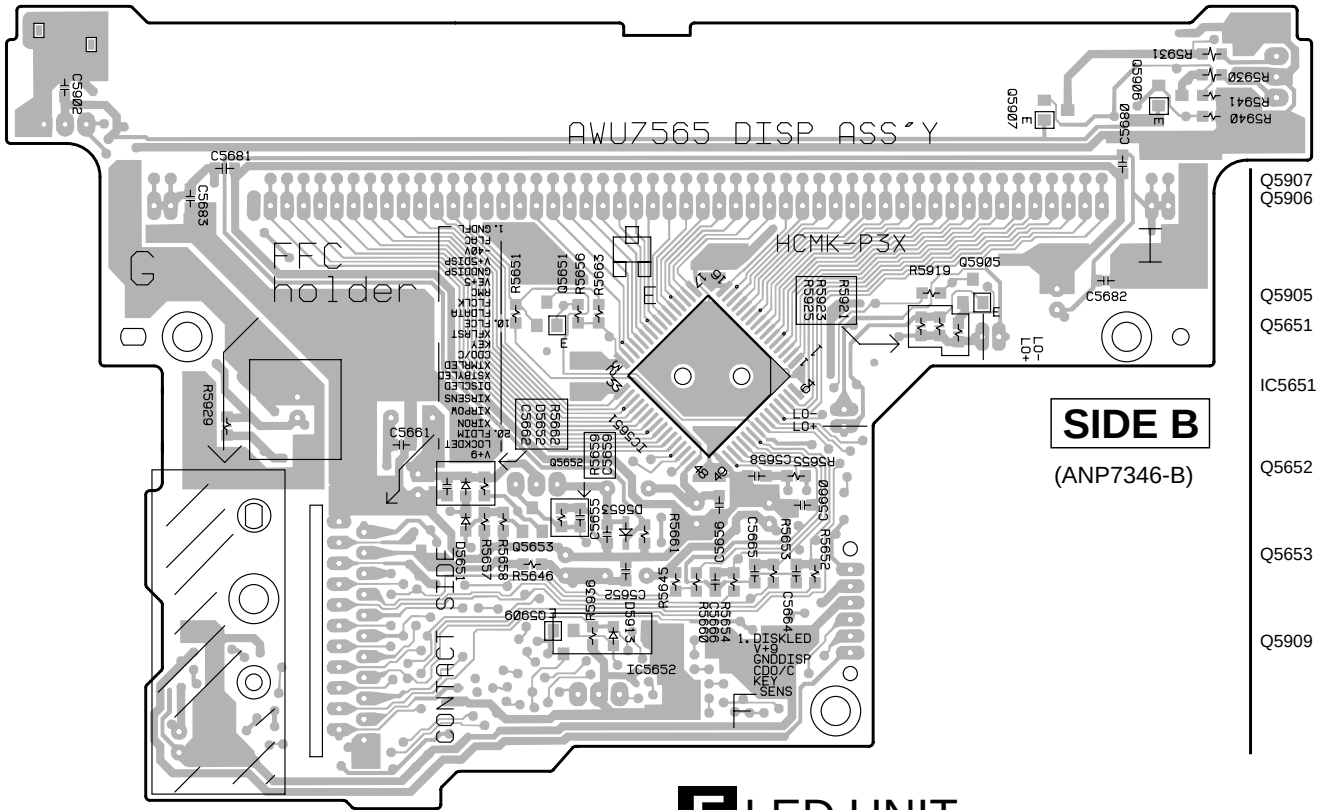
J CD SW UNIT

I SENS UNIT

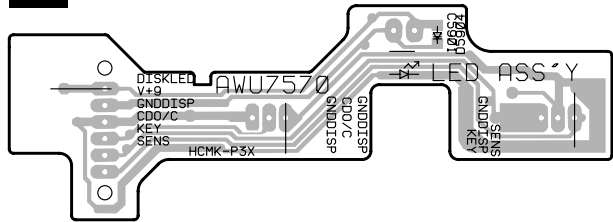
H KEY L UNIT

G KEY R UNIT

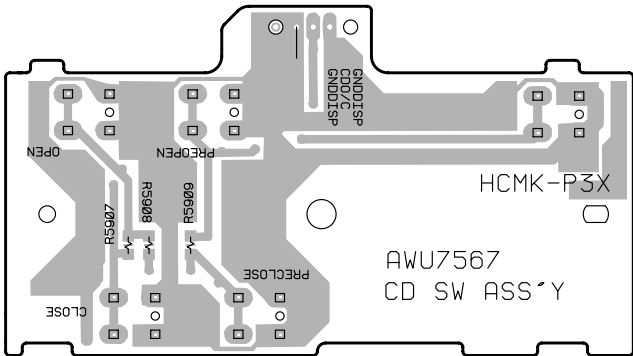
E DISP UNIT



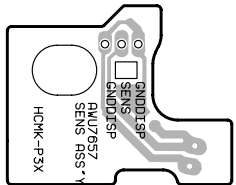
F LED UNIT



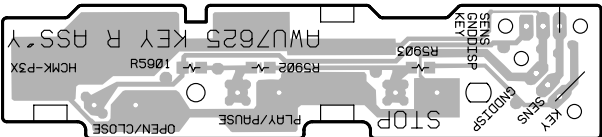
J CD SW UNIT



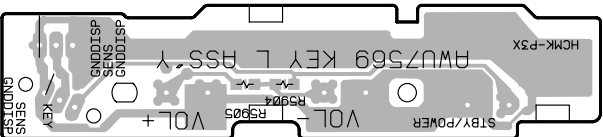
I SENS UNIT



G KEY R UNIT



H KEY L UNIT



5. PCB PARTS LIST

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

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	56×10^1	→	561		RD1/4PU	5 6 1	J
47k Ω	→	47×10^3	→	473		RD1/4PU	4 7 3	J
0.5 Ω	→	R50				RN2H	R 5 0	K
1 Ω	→	1R0				RS1P	1 R 0	K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→	562×10^1	→	5621		RN1/4PC	5 6 2 1	F
----------------	---	-------------------	---	------	-------	---------	---	---

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
------	-----	-------------	----------	------	-----	-------------	----------

LIST OF PCB ASSEMBLIES

FM/AM TUNER MODULE	AXQ7229
--------------------	---------

SELF-CHACK CD ASSY	AWP7027
--------------------	---------

CD TX MAIN ASSY	AWM7500
├ MAIN UNIT	AWU7564
├ DISP UNIT	AWU7565
├ MOTOR UNIT	AWU7566
├ CD SW UNIT	AWU7567
├ AUX UNIT	AWU7568
├ KEY L UNIT	AWU7569
├ LED UNIT	AWU7570
├ KEY R UNIT	AWU7625
├ SENS UNIT	AWU7657

C243	CEAT330M16
C228	CEAT3R3M50
C237	CEAT470M10
C211	CEJA1R0M50
C210	CEJA470M16

C103, C104, C204, C238	CKSRYB102K50
C102, C208, C216, C217, C220	CKSRYB103K50
C239, C242, C604, C615	CKSRYB103K50
C225	CKSRYB153K50
C607, C608	CKSRYB182K50

C201, C205, C214, C230, C236	CKSRYB223K50
C244	CKSRYB223K50
C221	CKSRYB224K10
C603	CKSRYB392K50
C215	CKSRYB471K50

C202, C222	CKSRYB473K16
C606	CKSRYB561K50

A FM/AM TUNER MODULE

SEMICONDUCTORS

IC201	BA1451F
IC202	LC72131MD
Q201, Q204, Q205, Q601	2SC2412K
Q202	DTA124ES
Q203	DTC124EK
D201	1SS133
D202	MTZJ5.1C
D101	UDZS6.8B

COILS AND FILTERS

L201	FM DETECTOR COIL	ATE7003
F202	CERAMIC FILTER	ATF-107
F201	CERAMIC FILTER	ATF-119
F203	AM CERAMIC FILTER	ATF1155
F601	ANTIBIRDY FILTER	ATF7025
L601		LCTA270J2520

CAPACITORS

C605	CCSQCH680J50
C212, C213, C226, C233–C235	CCSRCH101J50
C240, C614	CCSRCH101J50
C206	CCSRCH120J50
C231, C232	CCSRCH150J50
C223	CEAT100M50
C229	CEAT101M10
C224	CEAT1R0M50
C227	CEAT220M25
C241	CEAT2R2M50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R103, R104	RS1/10S221J
Other Resistors	RS1/16S□□□J

OTHERS

CN201	13P CONNECTOR	52044-1345
BN201	2P TERMINAL WITH PAL SHIELD CASE T	AKA7002
	SHIELD CASE B	ANK7072
X201	CRYSTAL RESONATOR (7.2000 MHz)	ANK7073
	ASS1093	
	FM FRONT END	AXF7004
	AM RF TUNING BLOCK	AXX7072

B SELF-CHACK CD ASSY

SEMICONDUCTORS

IC1301	M56788FP
IC1101	TA2150FN
IC1201	TC9495F
Q1101	2SA1036K
Q1201	DTA124EK
Q1301	DTC124EK
Q1102	DTC124TKA
D1201	1SS355

XC-F10

Mark	No.	Description	Part No.
------	-----	-------------	----------

COILS AND FILTERS

L1302	LCTB1R8K1608
L1205, L1206	OTL1040

CAPACITORS

C1119, C1126	CCSRCH101J50
C1201	CCSRCH150J50
C1307	CCSRCH151J50
C1117, C1202, C1209	CCSRCH220J50
C1118	CCSRCH330J50

C1210, C1303	CCSRCH470J50
C1116	CCSRCK2R0C50
C1101, C1102, C1208, C1222, C1224	CEV101M16
C1231, C1328	CEV101M16
C1115, C1236	CEV101M4

C1108, C1203, C1228	CEV470M6R3
C1249, C1250	CKSRYB102K50
C1103, C1107, C1114, C1130, C1204	CKSRYB103K50
C1206, C1207, C1212, C1214, C1223	CKSRYB103K50
C1225–C1227, C1230, C1232, C1239	CKSRYB103K50

C1315, C1316	CKSRYB103K50
C1104, C1110, C1111, C1131, C1245	CKSRYB104K16
C1322, C1325, C1350	CKSRYB104K16
C1211	CKSRYB153K50
C1213	CKSRYB222K50

C1112, C1113	CKSRYB224K10
C1215	CKSRYB333K16
C1237, C1291	CKSRYB471K50
C1216, C1217	CKSRYB473K16
C1311, C1319	CKSRYB682K50

RESISTORS

R1112 (47kΩ)	ACN7077
R1219 (220Ω)	DCN1093
R1117 (10kΩ)	DCN1094
R1318	RS1/16S1202F
R1319	RS1/16S2202F

R1317	RS1/16S2702F
Other Resistors	RS1/16S□□□J

OTHERS

CN1101	16P CONNECTOR	RKN1057
CN1201	24P CONNECTOR	RKN1065
CN1302	CONNECTOR	S2B-PH-SM3
CN1301	CONNECTOR	S6B-PH-SM3
X1201	CRYSTAL RESONATOR (16.9MHz)	VSS1084

MAIN UNIT SEMICONDUCTORS

IC3502–IC3504	BA4558F-HT
IC5701	BU1923F
IC3501	BU4052BCF
IC551	BU4069UB
△ IC501	NJM7805FA
△ IC502	NJM7905FA
IC5501	PDC061A
Q552	2SB1237X
Q3501–Q3504, Q501, Q5501, Q5504	2SC2412K
Q551	2SD1858X

Mark	No.	Description	Part No.
------	-----	-------------	----------

Q5502, Q5503, Q5505	DTC124EK
D505–D507, D551–D556	1SR154-400
D3501, D3551, D3552, D5503, D5504	1SS355
D5506	1SS355
D3503–D3506, D503	UDZ11B

D559	UDZ15B
D5701	UDZS5.1B
D5501, D5505	UDZS6.8B

COILS AND FILTERS

L1651, L5501	LFEA220J
L551, L552	LFEA680J

CAPACITORS

C5507	ACH1246
C5513, C5521–C5524, C5532, C5533	CCSQCH101J50
C5535, C5536	CCSQCH101J50
C5702	CCSQCH270J50
C3558	CCSQCH331J50

C563–C565	CCSQSL391J50
C3513, C3514, C3517–C3520	CCSRCH101J50
C5511, C5512, C5528, C5531, C5534	CCSRCH101J50
C5701	CCSRCH270J50
C5704	CCSRCH271J50

C5705	CCSRCH561J50
C559, C566	CEAL101M10
C508, C556, C558, C560	CEAL470M16
C552, C554, C555, C557, C571	CEAL470M25
C553	CEAL470M35

C5501	CEAT100M50
C1651, C501, C502, C505, C506	CEAT101M10
C5506, C5509, C5707	CEAT101M10
C5504	CEATR10M50
C3511, C3512	CEJA101M10

C3523, C3524, C3535, C3536	CEJA220M10
C3521, C3522	CEJA2R2M50
C5703	CEV100M16
C1652, C1653, C3509, C3510, C509	CKSQYB103K50
C5502	CKSQYB103K50

C5519, C5520, C5525–C5527	CKSQYB152K50
C551, C561, C562, C567	CKSQYB473K50
C3557, C5503, C5505, C5508	CKSQYF104Z25
C569, C570	CKSQYF104Z25
C3537, C3538	CKSQYF105Z16

C5517, C5518, C5708	CKSRYB103K50
C5510, C5530	CKSRYF104Z25

RESISTORS

△ R5573, R5574, R5576	RS1/10S1002F
R3521, R3522, R3547, R3548	RS1/10S4701F
R3549–R3551, R3553, R3554	RS1/10S5101F
R3563, R3564	RS1/16S0R0J
R3527, R3528	RS1/16S101J

R5584	RS1/16S102J
R3505, R3506	RS1/16S103J
R3537, R3538, R5578, R5585	RS1/16S104J
R3507, R3508	RS1/16S123J
R5551	RS1/16S153J

R3556, R3559	RS1/16S181J
R5583	RS1/16S182J
R3541, R3542, R5552, R5553, R5555	RS1/16S222J
R5558	RS1/16S223J
R5579	RS1/16S333J

Mark	No.	Description	Part No.
	R3519, R3520 R3525, R3526 R5512, R5513, R5538, R5548, R5549 R5554, R5567 R3543, R3544		RS1/16S4701F RS1/16S470J RS1/16S471J RS1/16S471J RS1/16S472J
△	R5575, R5580 R3552 R5588 R5524–R5526, R5532–R5536 R5557		RS1/16S473J RS1/16S5101F RS1/16S5602F RS1/16S563J RS1/16S822J
	Other Resistors		RS1/10S□□□J

OTHERS

CN7	CONNECTOR 4P	04R-FJ
CN6	SOCKET(15P)	AKP1038
CN4	20P SOCKET	AKP7129
1	SHIELD CASE	ANK7082
1651	BUZZER	APV7002
CN1	13P CONNECTOR	FF3-13-S15
CN2	22P CONNECTOR	FF3-22-S15
JA1651	OPTICAL LINK OUT	GP1FA550TZ
CN5	24P CONNECTOR	VKN1428
KN1	EARTH METAL FITTING	VNF1084
X5701	CRYSTAL RESONATOR (4.332MHz)	ASS7004
X5501	CERAMIC RESONATOR (10MHz)	DSS1048

D AUX UNIT**CAPACITORS**

C3501–C3504	CCSQSL331J50
-------------	--------------

RESISTORS

All Resistors	RS1/10S□□□J
---------------	-------------

OTHERS

CN107	CONNECTOR 4P	04PL-FJ
JA3501	2P PIN JACK	VKB1031

E DISP UNIT**SEMICONDUCTORS**

IC5651 IC5652 Q5910 Q5652 Q5653, Q5903	MSM9202-01 PD5601A 2SA1037K 2SB1238X 2SC2412K
Q5906, Q5907, Q5909, Q5912 Q5908 D5651, D5652, D5913 D5909 D5653	DTA143EK DTC124EK 1SS355 UDZ3.0B UDZS8.2B
D5908	VRPG5615S

COILS AND FILTERS

L5652 L5651 L5653	LFEA100J LFEA220J LFEA680J
-------------------------	----------------------------------

Mark	No.	Description	Part No.
CAPACITORS			
	C5664–C5666 C5658 C5657, C5663 C5651, C5654, C5903 C5906		CCSQCH101J50 CCSQCH470J50 CEJA100M50 CEJA101M10 CEJA101M6R3
	C5679 C5904 C5902 C5655, C5656, C5661, C5662 C5680, C5681		CEJA330M35 CEV101M4 CKSQYB103K50 CKSQYB473K50 CKSQYB473K50
	C5652, C5660 C5653, C5905		CKSQYF104Z25 CKSRYF104Z25

RESISTORS

R5932 R5946 R5914 R5939 R5944	RS1/16S102J RS1/16S103J RS1/16S222J RS1/16S270J RS1/16S330J
R5949 R5664 R5945 R5942 Other Resistors	RS1/16S390J RS1/16S3R9J RS1/16S472J RS1/16S821J RS1/10S□□□J

OTHERS

12 CN102 V5651	6P CABLE HOLDER CONNECTOR 22P FL TUBE FL SPACER	51048-0600 52492-2220 AAV7077 AEB7199
5901	REMOTE RECEIVER UNIT	GP1U27X
X5902	CERAMIC RESONATOR (3.84MHz)	ASS7029

F LED UNIT**SEMICONDUCTORS**

D5903	NSPB500-0008
-------	--------------

CAPACITORS

C5901	CKSQYF104Z25
-------	--------------

OTHERS

112 CN13, CN14	6P CABLE HOLDER	51048-0600 52151-0310
J12	3PJUMPER CONNECTOR PARALLEL WIRE 6P	D20PY0615E

G KEY R UNIT**SWITCHES AND RELAYS**

S5904–S5906	ASG7013
-------------	---------

RESISTORS

All Resistors	RS1/10S□□□J
---------------	-------------

OTHERS

113, 15 J13, J15	3P CABLE HOLDER JUMPER WIRE 3P	51048-0300 ADD7262
---------------------	-----------------------------------	-----------------------

XC-F10

Mark	No.	Description	Part No.
------	-----	-------------	----------

H KEY L UNIT

SWITCHES AND RELAYS

S5901-S5903	ASG7013
-------------	---------

RESISTORS

All Resistors	RS1/10S□□□J
---------------	-------------

OTHERS

115	3P CABLE HOLDER	51048-0300
CN16	3PJUMPER CONNECTOR	52151-0310

I SENS UNIT

SEMICONDUCTORS

D5912	SIR-56ST3F
-------	------------

OTHERS

J16	JUMPER WIRE 3P	ADD7263
	LED SPACER	AEB7204

J CD SW UNIT

SWITCHES AND RELAYS

S5907-S5910	ASG7023
-------------	---------

RESISTORS

All Resistors	RS1/10S□□□J
---------------	-------------

OTHERS

114	3P CABLE HOLDER	51048-0300
J14	JUMPER WIRE 3P	ADD7262

K MOTOR UNIT

CAPACITORS

C5908	CKSQYF104Z25
-------	--------------

OTHERS

CN111	CONNECTOR	S2B-PH-K-S
-------	-----------	------------

Mark	No.	Description	Part No.
------	-----	-------------	----------

6. ADJUSTMENT

6.1 TEST MODE

Kind of test mode

The following four modes exist.

The door opening function with the infrared rays sensor becomes off in the test mode (Infrared rays is not irradiated).

1-1. TEST mode. (TEST) : For adjustment in main body distance of production line

1-2. Unit TEST mode. (UTEST) : For inspection by the function checker of production line

1-3. Service TEST mode. (STEST) : For inspection by service

It is not possible to operate at all by recognition because of there is no AC pulse if it is CD tuner alone and there is no part AMP as the power failure.

Then, to be able to move the CD tuner, mode yet in the inconvenience without the part AMP.

It is possible to operate only in the CD tuner even if the part AMP is not connected.

An initial function becomes CD if the product starts in this mode, and CD becomes CD TEST mode different from a usual operation.

Even if the function is returned to the CD function again, the product does not become CD TEST mode when the function is made functions other than CD once. The product becomes a usual CD operation.

To put the product from the state in the CD TEST mode, the remote control code of A25F is received.

1-4. CD TEST mode. (STEST) : For inspection by service

When the remote control code of A25F is received at the CD function when it is on, power becomes CDTEST mode.

The CD tuner is effective to this even the ordinary mode.

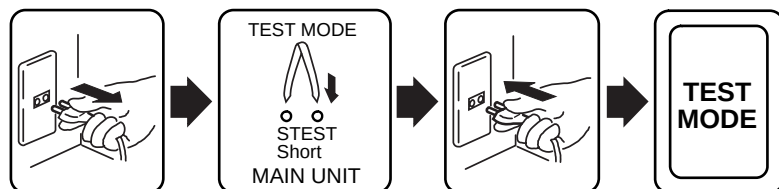
However, the product becomes off this mode when the function is changed besides CD.

The step in the part CD can operate. From LD ON to SPDL LOCK, TRKG ON/OFF and etc.

6.1.1 How to Start/Cancel Service Test Mode

NOTE: There is no information to be shown in this CD adjustment.

TEST MODE : ON



An initial function becomes CD, then becomes CD TEST MODE. And becomes a blank display [:].

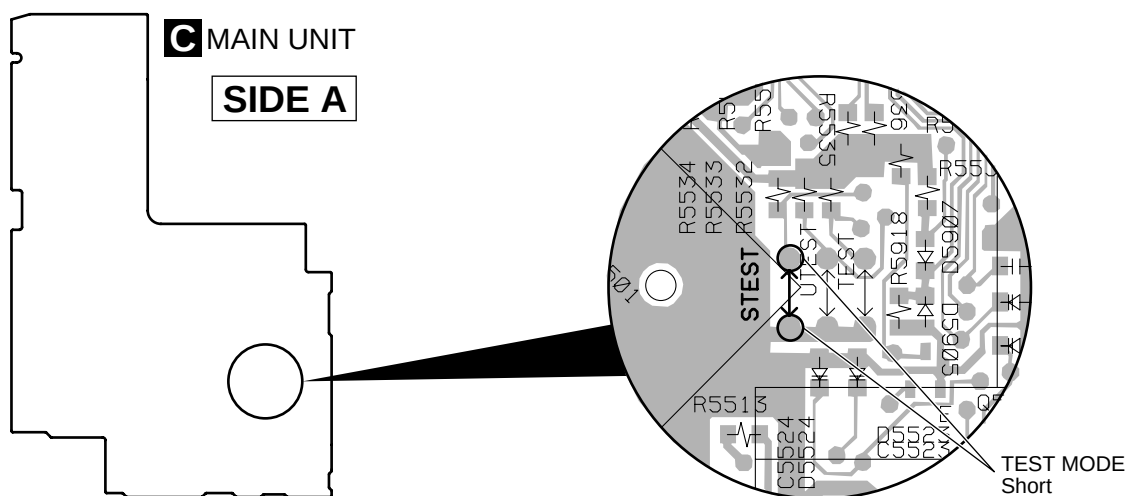
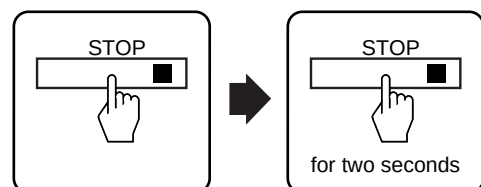


Fig. 1 Test Mode Point Location

CD TEST MODE : CANCEL



The function is changed.
Becomes a usual CD operation

TEST MODE : STOP



6.1.2 Function And Operation In CD Test Mode

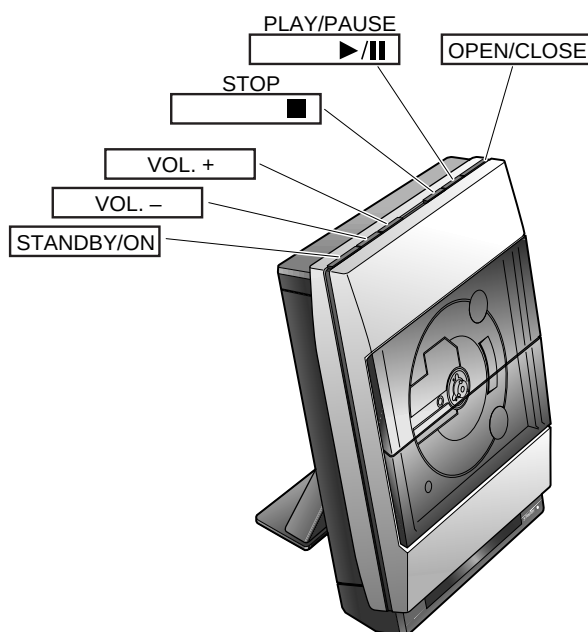
Main body key	Single goods CD remote control unit	Operation condition	Content of operation	FL display
OPEN/CLOSE	(None)	When CD STOP	The CD tray opens and close.	
STOP	STOP	When CD STOP	The function is changed.	
		When Servo ON	All servos are turned off.	CD : ↓
POWER (*1)	RANDOM (A24A)	When CD STOP	LD is turned on, and auto focus is done.	FOCUS ON
PLAY/PAUSE	PLAY (A217)	After FOK	The spindle is kicked. And, the self adjustment processing tracking servo is turned on and MUTE is released. (*2)	SPNDL KICK ↓ SERVO ON
PLAY/PAUSE	PLAY (A217)	When TRK SERVO OFF	The tracking servo is turned on, and MUTE is released.	SERVO ON
PLAY/PAUSE	PLAY (A217) PAUSE (A218)	When TRK SERVO ON	The tracking servo is turned off, and MUTE is put.	SERVO OFF
VOL UP	TRK UP (A210)	When TRK SERVO ON	The tracking servo is turned off, MUTE is put, and the slider is moved in the direction of FWD.	CD XX : XX ↓ SERVO OFF
VOL DOWN	TRK DOWN (A211)	When TRK SERVO ON	The tracking servo is turned off, MUTE is put, and the slider is moved in the direction of RVS.	CD XX : XX ↓ SERVO OFF
(None) (*3)	PGM (A20D)	When CD has Stopped	LDON → Auto focus → Spindle kick → Self adjustment → TOC lead → The 2th search → Tracking servo ON → MUTE release	FOCUS ON ↓ SPNDL KICK ↓ SERVO ON

*1 Method of making POWER OFF when there is no remote control.

The function is changed besides CD keeping pushing the STOP key again for two seconds after CD is stopped with the STOP key.
And, please push the POWER key.

*2 If the slider is not sent to outer a little to turn on the servo by surroundings the in DISC, the sound is not occasionally emitted.

*3 It is possible to operate only by remote control for the unit check mode.



6.2 TUNER SECTION

■ AM Tuner Section

- There is no adjustment in the AM tuner.

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	ANT. Input level and signal condition			Adjustment	
		Frequency (MHz)	Modulation	Input Level (dBμV)	Adjust point	Contents
1	T-METER Adjustment	98	OFF	80	L201	Adjust L201 so that the DC voltage between Pin 21 and Pin 23 of IC201 (Test point V _{tm}) gets within 0 ± 50mV.

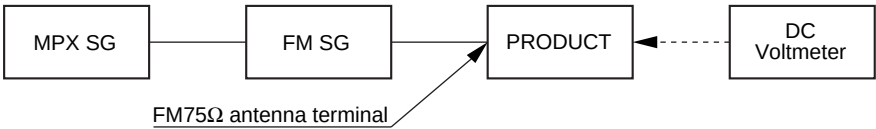
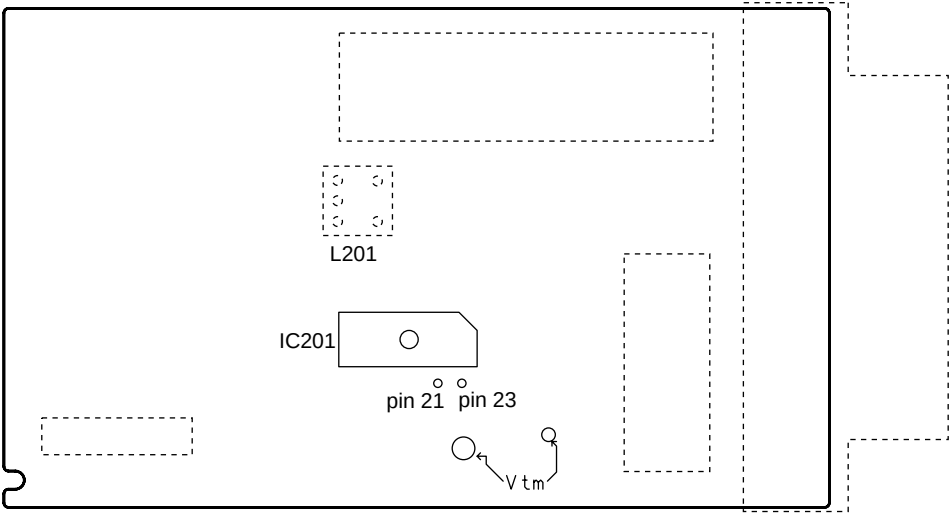


Fig.1 Adjustment Wiring Diagram

A FM/AM TUNER UNIT



SIDE B

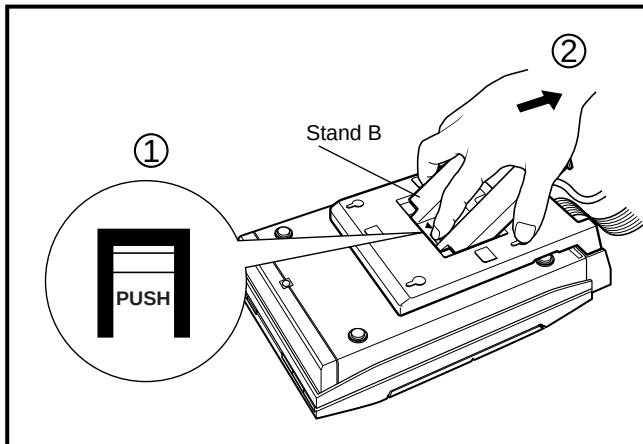
Fig.2 Adjustment Point

7. GENERAL INFORMATION

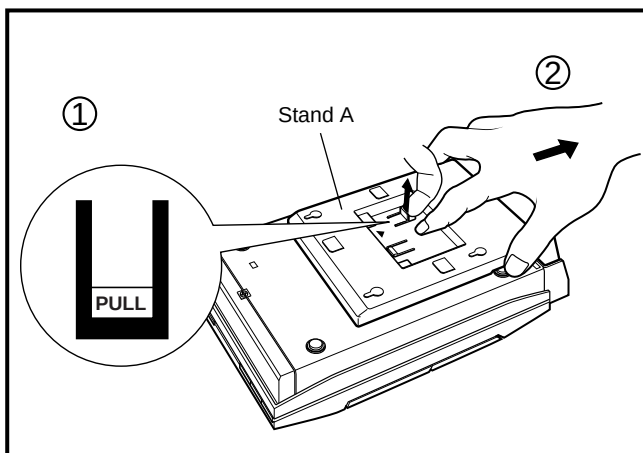
7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

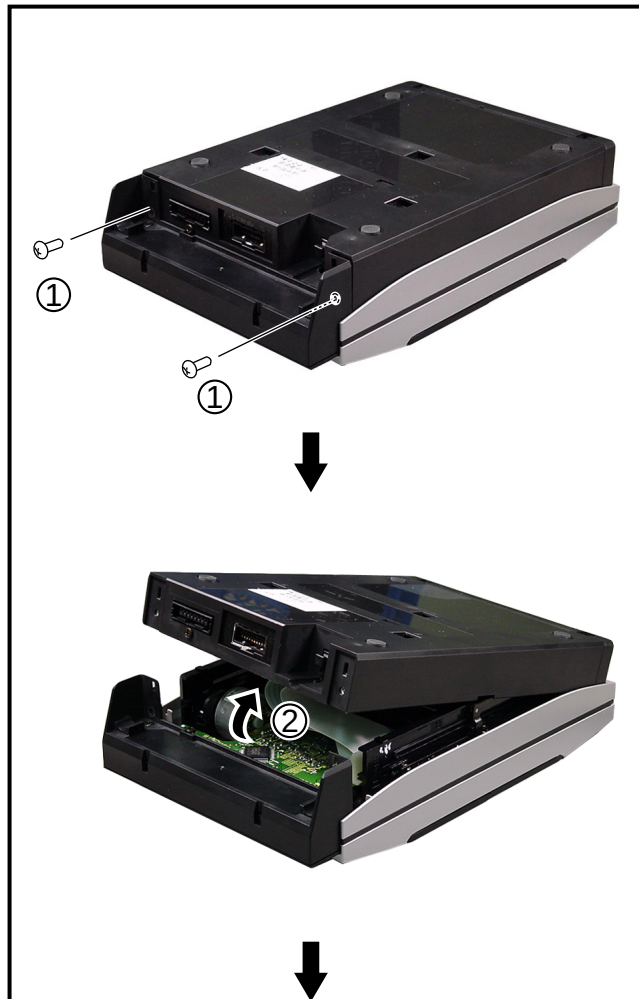
■ STAND B



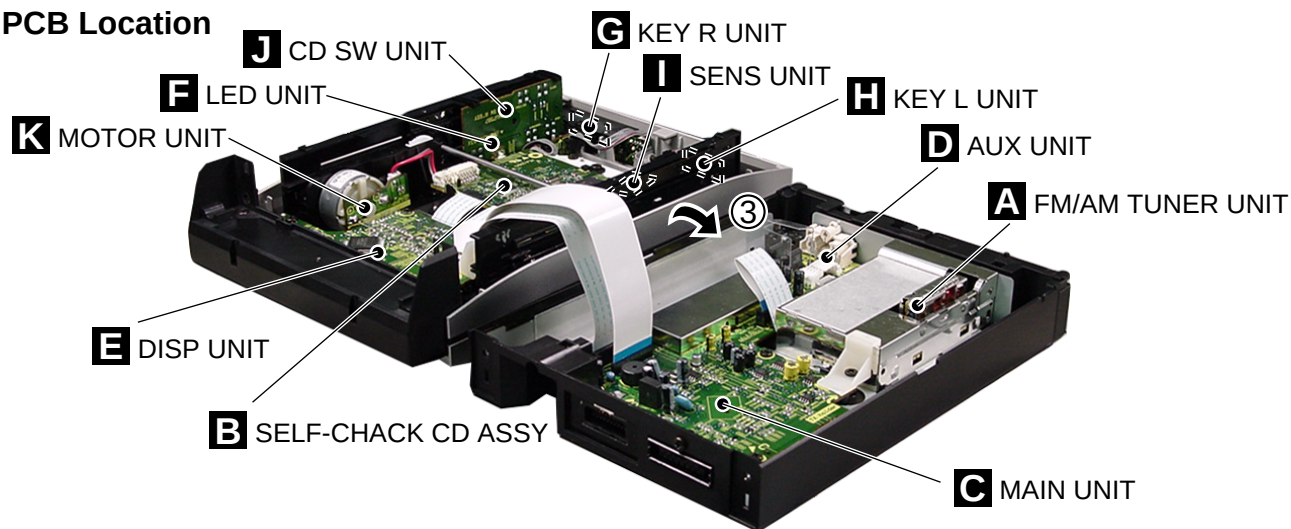
■ STAND A



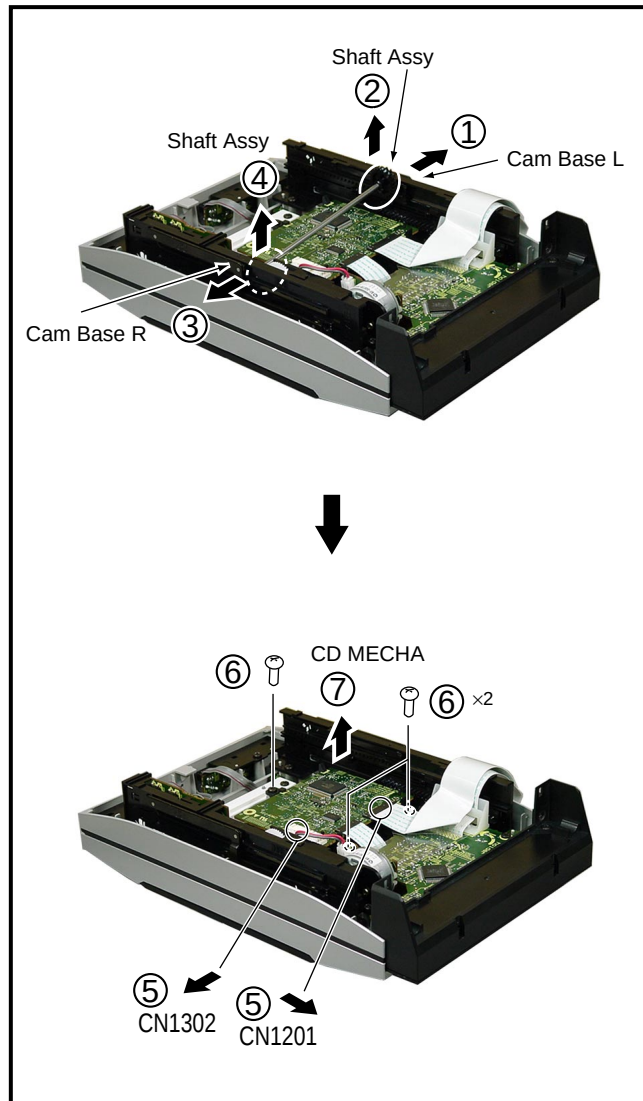
■ BOTTOM BASE



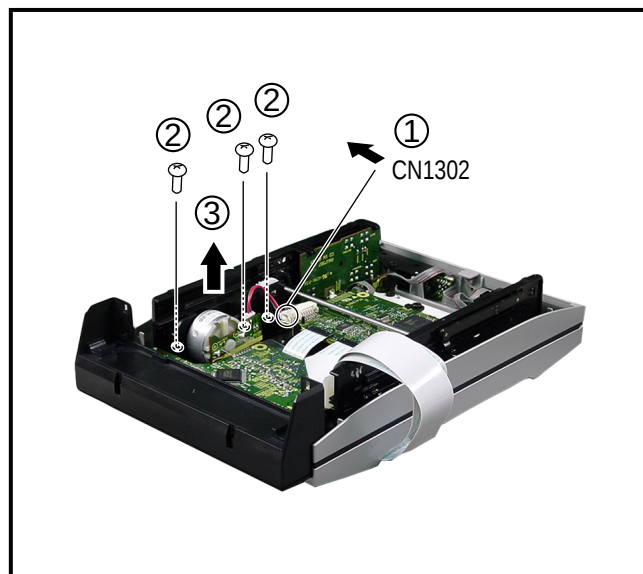
■ PCB Location



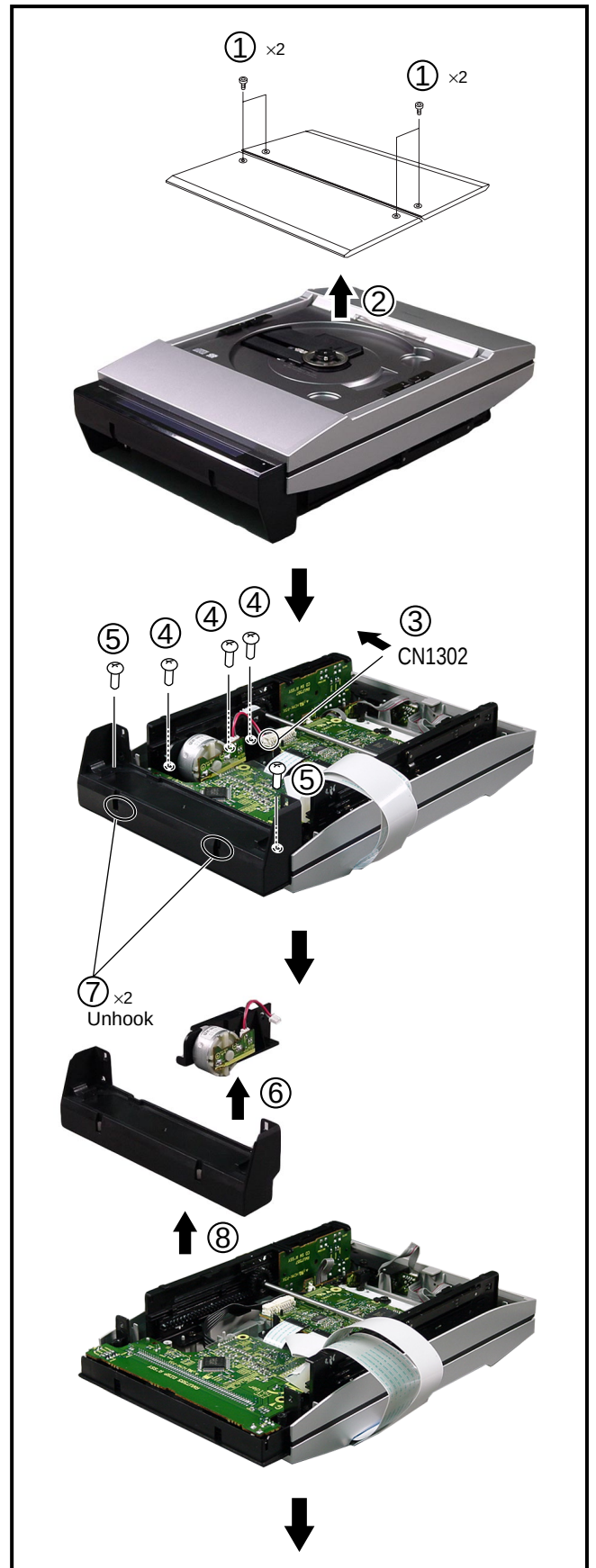
CD MECHA

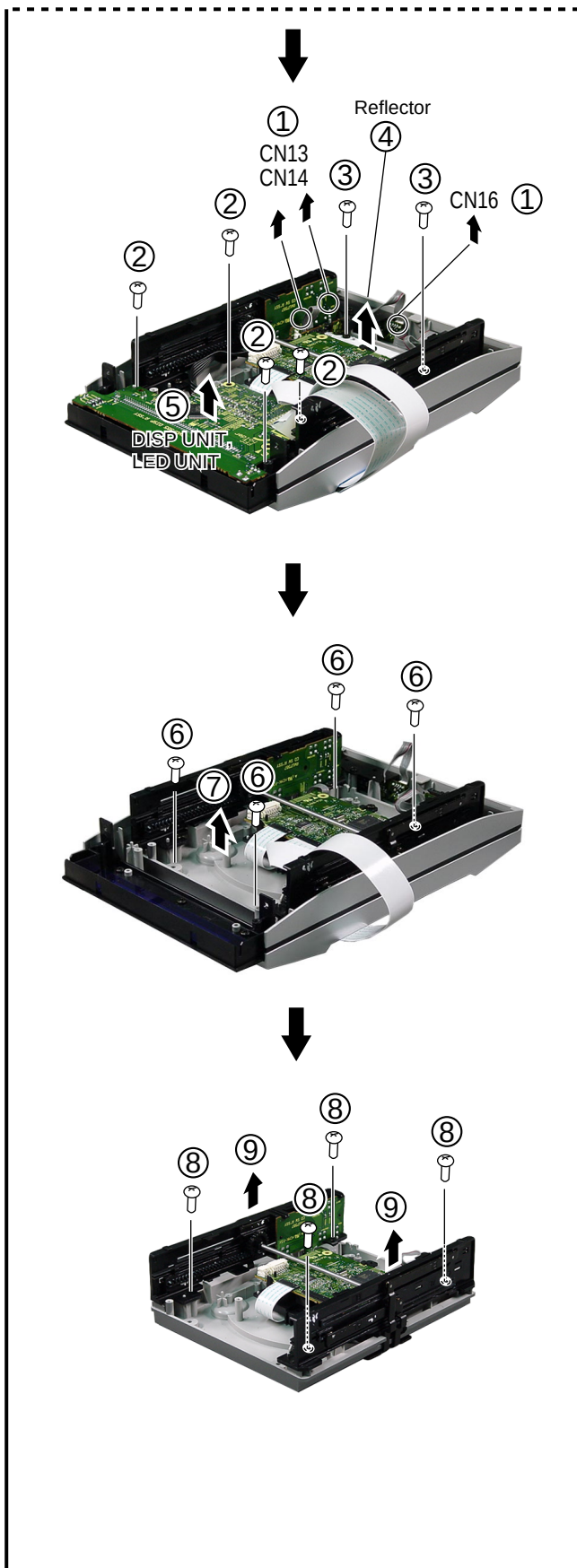


MOTOR ASSY

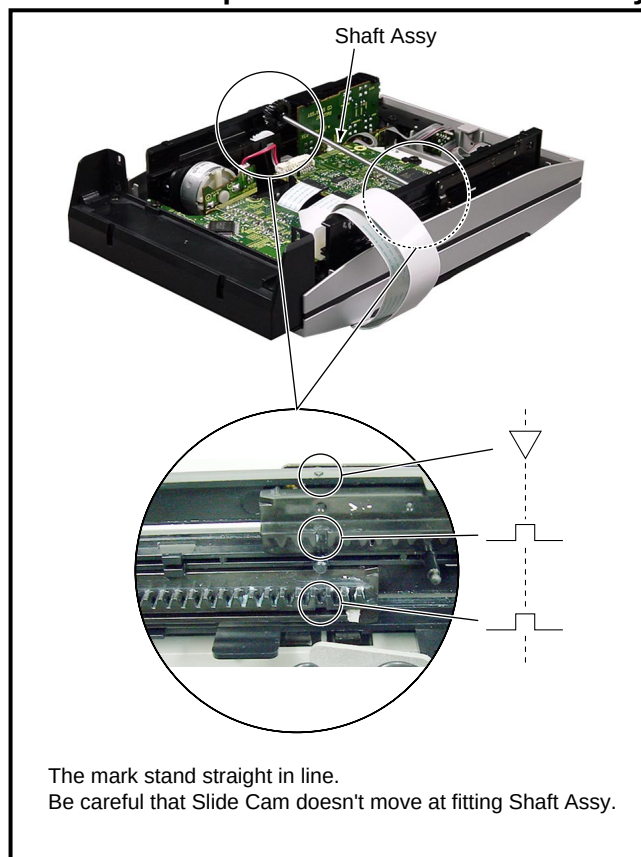


CAM BASE

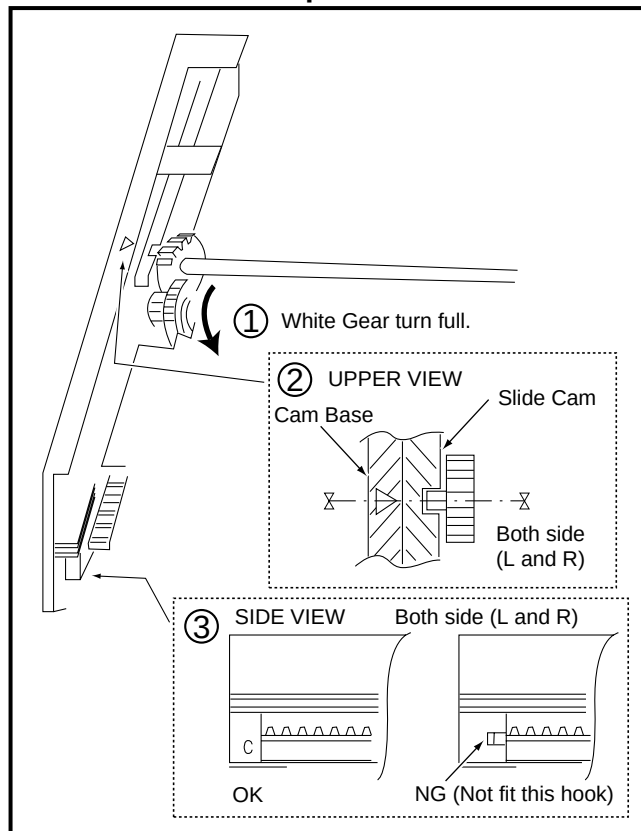




Installation position match of Shaft Assy

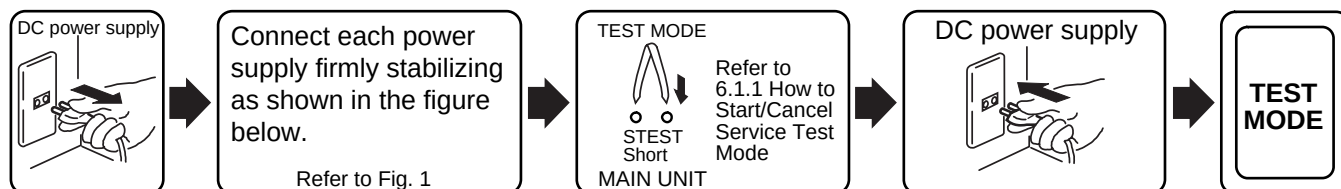


Gear miss check point



7.1.2 SINGLE OPERATION METHOD

TEST MODE : ON Service TEST mode. (STEST)



An initial function becomes CD, then becomes CD TEST MODE. And becomes a blank display [:]. So that usual CD may operate, Return the function to the CD function again after making the function functions other than CD. (The function can be changed by keeping pushing main body STOP key for two seconds.)

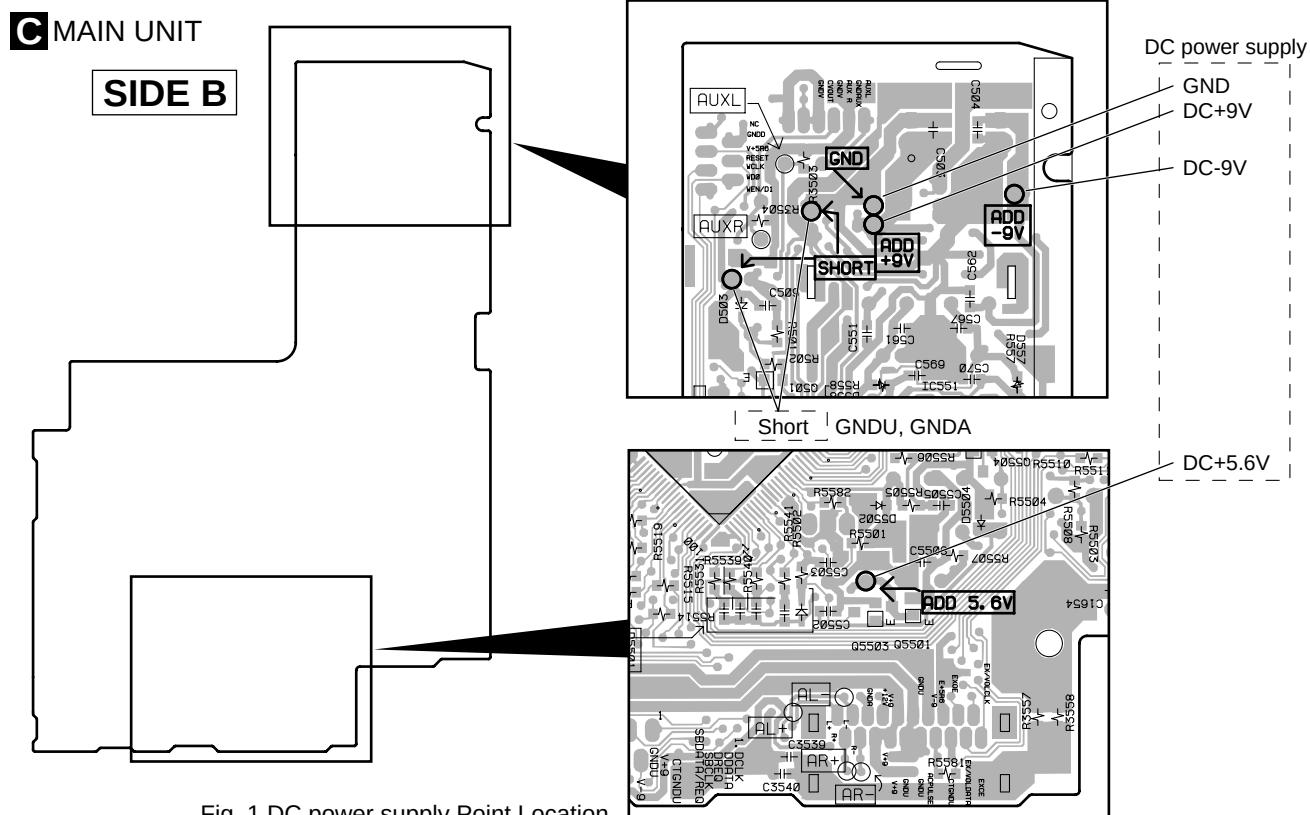


Fig. 1 DC power supply Point Location

Function and operation in service TEST mode.

Difference with the ordinary mode.

It is possible to operate even if there is no AC pulse.

It is possible to operate only in the CD tuner if a necessary DC power supply is supplied even if there is no part AMP.

The compulsion power off function by fan detection and the protecting function is released.

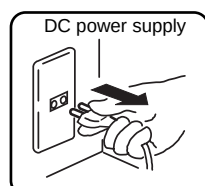
A wrong part was made easy to diagnose.

An initial function becomes CD TEST mode by CD and is usually different from the CD operation.

The function can be changed by keeping pushing main body STOP key for two seconds.

Other functions and the operations are the same as the ordinary mode.

TEST MODE : STOP



To come off the test mode, AC OFF.

The test mode is not completely cleared in POWER OFF key and AC OFF, please.

7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDC061A (MAIN UNIT : IC5501)

• System Control IC

● Pin Function

No.	Pin Name	I/O	MOS	Function	Pin Function	Active
1	BEEP	O	C	Port	BEEP Output	-
2	BUS0	I/O	C	Port	CD LSI Communication Bus	-
3	BUCK	O	C	Port	CD LSI Communication Bus Clock	-
4	FLCE	O	C	Port	FL Driver CE	
5	TXMUTE	O	C	Port	FM/AM Tuner module Mute	
6	TXCLK	O	C	Port	FM/AM Tuner module Control Clock	-
7	TXDI	O	C	Port	FM/AM Tuner module Control Data	
8	TXCE	O	C	Port	FM/AM Tuner module Control CE	
9	XRDSON	O	C	Port	RDS Decoder Control (H : Stop)	L
10	(DEBUG)	O	C	Port	Not used	-
11	XRESET	I	-	RESET	RESET	L
12	(NC)	-	-		Connect VDD1 for Not used	-
13	(NC)	-	-		Open for Not used	-
14	GND	-	-	GND	GND	-
15	CF1	-	-	SERALOCK	Seramic resonator Connected terminal	-
16	CF2	-	-	SERALOCK	Seramic resonator Connected terminal	-
17	VDD	-	-	VDD	VDD	-
18	XFLRST	O	N	Port	FL Driver Hardware Reset	L
19	KEY	I	N	Analog Input	KEY Input	-
20	CD O/C	I	N	Analog Input	CD DOOR SW Input	-
21	(NC)	O	N	Port	Not used	-
22	(NC)	O	N	Port	Not used	-
23	XCDRST	O	N	Port	CD LSI Hardware Reset	L
24	PROTECT	I	N	Analog Input	Measures of short test with Summing circuit	-
25	DSTN	I	N	Analog Input	Destination Switch	-
26	ACPULSE	I	N	INT0 Port	AC Pulse Input	-
27	XCDCE	O	C	INT1 Port	CD LSI CE	
28	RDSClk	I	C	INT2 Port	Clock Input from RDS Decoder (Without RDS : Low Output)	-
29	RMC	I	C	INT3 Port	Remote Control Signal Input	-
30	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
31	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
32	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
33	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
34	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
35	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
36	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
37	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
38	(NC)	O	P	VFD Controller	Prohibition of use only for VFD	-
39	(NC)	O	P	Port	Not used	-
40	(NC)	O	P	Port	Not used	-
41	(NC)	O	P	Port	Not used	-
42	(NC)	O	P	Port	Not used	-
43	(NC)	O	P	Port	Not used	-
44	(NC)	O	P	Port	Not used	-
45	(NC)	O	P	Port	Not used	-
46	VDD	-	-	VDD	VDD	-
47	(NC)	O	P	Port	Not used	-
48	(NC)	O	P	Port	Not used	-
49	XCDDROFF	O	P	Port	CD Door Driver Control ON/OFF (0 : OFF, 1 : Drive ON)	L
50	CDSLEEP	O	P	Port	CD LSI Function Stop (0 : OFF, LSI Stop : LSI Operation)	H

No.	Pin Name	I/O	MOS	Function	Pin Function	Active
51	GND	-	-			-
52	ZDET	I	P	Port	CD Zero Detection Input	
53	CDINSIDE	I	P	Port	CD INSIDE SW Input	
54	LOADIN	O	P	Port	CD Door Driver Control (Direction where door is closed)	H
55	LOADOUT	O	P	Port	CD Door Driver Control (Direction where door is opened)	H
56	XTMRLED	O	P	Port	Timer Standby Display LED Control	L
57	XSTBYLED	O	P	Port	Standby Display LED Control	L
58	DISCLED	O	P	Port	DISC LED Control, lights brightly *3	H
59	LEDDEMA	O	P	Port	DISC LED Control, lights a little darkly *3	H
60	LEDDEMB	O	P	Port	DISC LED Control, lights considerably darkly *3	H
61	XIRON	O	P	Port	Infrared RadiationControl for Sensor	L
62	FLDIMA	O	P	Port	FL Dimmer Control A	
63	FLDIMB	O	P	Port	FL Dimmer Control B	
64	(NC)	O	P	Port	Not used	
65	TXDO	I	P	Port	Data Input from FM/AM Tuner module	-
66	RDSDATA	I	P	Port	Data Input from RDS Decoder	-
67	XSTEREO	I	P	Port	STEREO Detection Input	
68	XTUNED	I	P	Port	TUNED Detection Input	L
69	ATT	O	P	Port	LINE Input ATT Control	H
70	CDMUTE	O	P	Port	CD Output Mute	H
71	4052B	O	P	Port	BU4052BCF Control A *1	-
72	VDD	-	-	VDD	VDD	-
73	4052A	O	P	Port	BU4052BCF Control B *1	-
74	(NC)	O	P	Port	Not used	-
75	XIRPOW	O	P	Port	Remote Control Microcomputer Power Supply Control	L
76	TEST	I	P	Port	CD Core Checker Mode Detection Jumper	L
77	UTEST	I	P	Port	Unit Test Mode Detection Jumper	L
78	SERVICE	I	P	Port	Service Mode Detection Jumper	L
79	(NC)	O	P	Port	Not used	-
80	WCLK	I	P	Port	For Flash Rewrite	-
81	(NC)	O	P	Port	Not used	-
82	(NC)	O	P	Port	Not used	-
83	SBDI	I	P	Port	System Bus Received Data	-
84	XEMR	I	P	Port	Signal of emergency generation from amplifier	L
85	SBDO/REQ	O	C	Port	System Bus Sending Data / Request	-
86	SBCLK	O	C	Port	System Bus Clock	-
87	DREQ	O	C	Port	Display Data Communication Request	-
88	EXOE	O	C	Port	BU4094BCF Output E , Using combinedly with WD0 for Flash Rewrite *3	H
89	GND	-	-	GND	GND	-
90	VDD	-	-	VDD	VDD	-
91	EX/V DATA	O	C	Port	BU4094BCF / VOL-IC Control Data *3	-
92	EX/V CLK	O	C	Port	BU4094BCF / VOL-IC Control Clock *3	-
93	EXCE	O	C	Port	BU4094BCF CE , Using combinedly with WEN/D1 for Flash Rewrite *3	H
94	FLDATA	O	C	Port	FL Driver Control Data	-
95	FLCLK	O	C	Port	FL Driver Control Clock	-
96	DDATA	I	C	Hard Serial	Display Data Communication Received Data	-
97	DCLK	I	C	Hard Serial	Display Data Communication Clock	-
98	BUS3	I/O	C	Port	CD LSI Communication Bus	-
99	BUS2	I/O	C	Port	CD LSI Communication Bus	-
100	BUS1	I/O	C	Port	CD LSI Communication Bus	-

XC-F10

*1 : Change of function. The truth value table of BU4052BCF.

A	B	Switch turned on	Function
L	L	X0, Y0	CD
H	L	X1, Y1	AUX
L	H	X2, Y2	PB
H	H	X3, Y3	TX

*2 : The truth value table of Expander IC (BU4094BCF / M-F10 COMPLEX ASSY IC5801).

Function Name	Port Kind	Active
OE	C-MOS	H
ACRY	C-MOS	H
SPRY	C-MOS	H
XMUTE	C-MOS	L
IND	C-MOS	H
HPPOW	C-MOS	(Not used)
WF1*	C-MOS	L
WF2*	C-MOS	L

*

Woofers Level	WF1	WF2
HIGH	H	H
MID	H	L
LOW	L	H

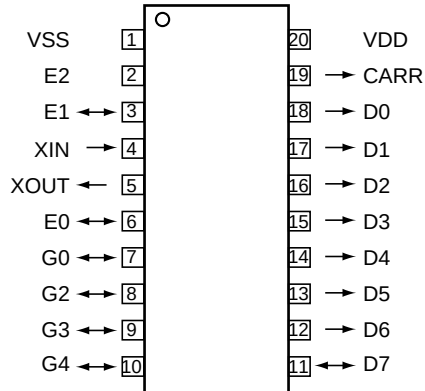
*3 : The truth value table of PLAY LED brightness.

Brightness	DISCLED	LEDDIMA	LEDDIMB
OFF	L	L	L
LOW	L	L	H
MID	L	H	L
HIGH	H	L	L

PD5601A (DISP UNIT : IC5652)

• 4 Bit Single Chip Microcomputer

• Pin Assignment



• Pin Function

NO.	PIN NAME	FUNCTION	I/O	PULL DOWN	ACT	at SLEEP	NOTE
1	VSS	GND	—	—	—	—	
2	E2	Trigger input for buzzer	I	Software	H	I	Pull down ON always
3	E1	Buzzer output	O	Software	H	I	Pull down ON always
4	X IN	3.84MHz Oscillation Connection	I	—	—	—	
5	X OUT	3.84MHz Oscillation Connection	O	—	—	—	
6	E0	buzzer ON/OFF input	I	Software	H	Input interception	Pull down OFF at SLEEP
7	G0	KEY input 1	I	Software	H	I	
8	G1	KEY input 2	I	Software	H	I	
9	G2	KEY input 3	I	Software	H	I	
10	G3	KEY input 4	I	Software	H	I	
11	D7	Signal switch output	O	Software	H	I	
12	D6	Remote control output without carrier	O	External	L	H output	
13	D5	KEY output	O	—	H	H output	
14	D4	KEY output	O	—	H	H output	
15	D3	KEY output	O	—	H	H output	
16	D2	KEY output	O	—	H	H output	
17	D1	KEY output	O	—	H	H output	
18	D0	KEY output	O	—	H	H output	
19	CARR	Remote control output with carrier	O	—	H	L output	
20	VDD	3V Power supply	—	—	—	—	

KEY No.	KEY NAME	TRANSMISSION CODE
1	◀◀ / -	A692
2	VOLUMEUP	A60A
3	TUNER	A649
4	▶▶ / +	A691
5	VOLUMEDN	A60B
6	CD	A644
7	STOP	A690
8	TIMER	A6CE
9	TAPEREC	A114
10	MD REC	A6A2+AF66
11	SET	A674
12	DISPLAY	A69D
13	TAPE	A617
14	AUX	A64C
15	POWER	A61C
16	MENU	A672
17	SOUND	A6DA
18	MD	A6A2+AF6D
19	CDR	A6A0+AF35
20	CANCEL	A673
21	◀◀	A694
22	▶▶	A693
23	CDR DOOR	A6A0+AF6F
24	CD DOOR	A6A0+AF6E

	G0	G1	G2	G3
D0	1	2	3	19
D1	4	5	6	20
D2	7	8	9	21
D3	10	11	12	22
D4	13	14	15	23
D5	16	17	18	24

● OPERATION EXPLANATION

It returns for the key input or the trigger input for the buzzer as SLEEP mode at time usually.

For "L" buzzer ON/OFF input.

Terminal CARR : The remote control code which corresponds to the pushed key is transmitted.
Carrier 40KHz, 1/3 Duty, Frame cycle 26ms.

Terminal E1 : If "H" pulse of 50-200ms is input two times between 0.5-1.5S in the terminal E2, the buzzer is output.
The buzzer is output if "H" pulse of 50-200ms is input two times between 0.5-1.5S in the terminal E2.
· Frequency of buzzer : 3KHz.
· How to sound the buzzer is as follows.
100ms sounding 100ms rest 100ms is sounded.
500ms rest, and 100ms repeated sounding, 100ms rest, and 100ms is sounded and it ends (Enter SLEEP).
*The buzzer is not output for 50ms or less and 200ms or more.
*The buzzer output is not done, except when the interval of the pulse of two times is 0.5-1.5S.
(Enter SLEEP when 1.5S is passed from the pulse of the first time.)
*This terminal is checked if there is no key input when returning from SLEEP.
(This terminal is not checked, except when returning for the key input.)
*When there is a key input when the width of the pulse and the interval are measured, the mode is made a key input and the measurement of the pulse is discontinued.

Terminal D6 : "H" Fix.

Terminal D7 : "L" Fix.

For "H" buzzer ON/OFF input.

Terminal CARR : "L" Fix.

Terminal E1 : "L" Fix.

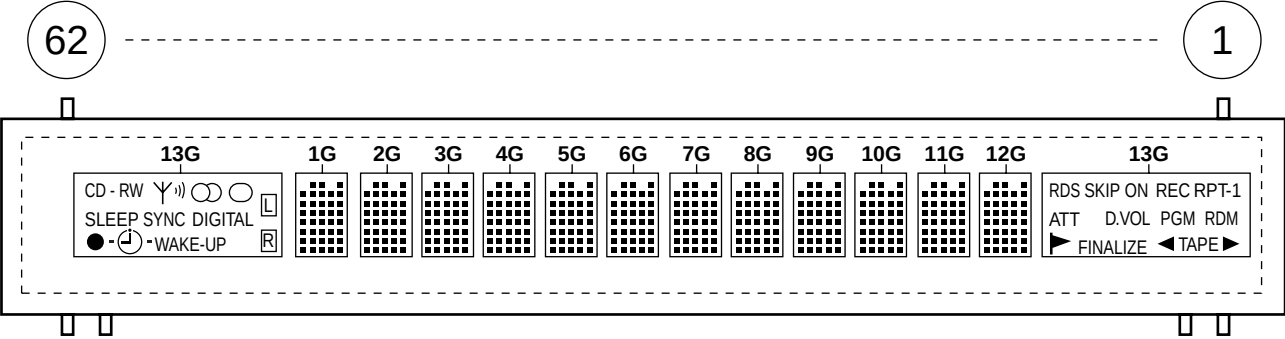
Terminal D6 : The remote control code which corresponds to the pushed key is transmitted.
There is no carrier.

Terminal D7 : Only when the remote control code is transmitted, "H" is output.
*It is made "H" before the remote control code is transmitted. After 10ms, it is made "L" after the key is turned off, and the last remote control code is transmitted.

7.2.2 DISPLAY

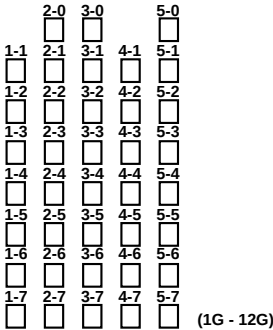
■ AAV7077 (DISP UNIT : V5651)

• FL DISPLAY



● Anode Connection

	13G	12G - 1G
P1	RDS	1-1
P2	SKIP	2-1
P3	ON	3-1
P4	REC	4-1
P5	RPT	5-1
P6	-1	1-2
P7	ATT	2-2
P8	D.VOL	3-2
P9	PGM	4-2
P10	RDM	5-2
P11	▶	1-3
P12	FINALIZE	2-3
P13	◀	3-3
P14	TAPE	4-3
P15	▶	5-3
P16	-	1-4
P17	-	2-4
P18	-	3-4
P19	-	4-4
P20	-	5-4
P21	-	1-5
P22	-	2-5
P23	WAKE-UP	3-5
P24	◻	4-5
P25	●	5-5
P26	◻ ◻	1-6
P27	DIGITAL	2-6
P28	SYNC	3-6
P29	SLEEP	4-6
P30	○	5-6
P31	○	1-7
P32	Y ¹⁾	2-7
P33	W	3-7
P34	- R	4-7
P35	CD	5-7
P36	-	2-0
P37	-	3-0
P38	-	5-0



● Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Connection	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
Pin No.	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Connection	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NX	NX	NX	NP	NP	F2	F2

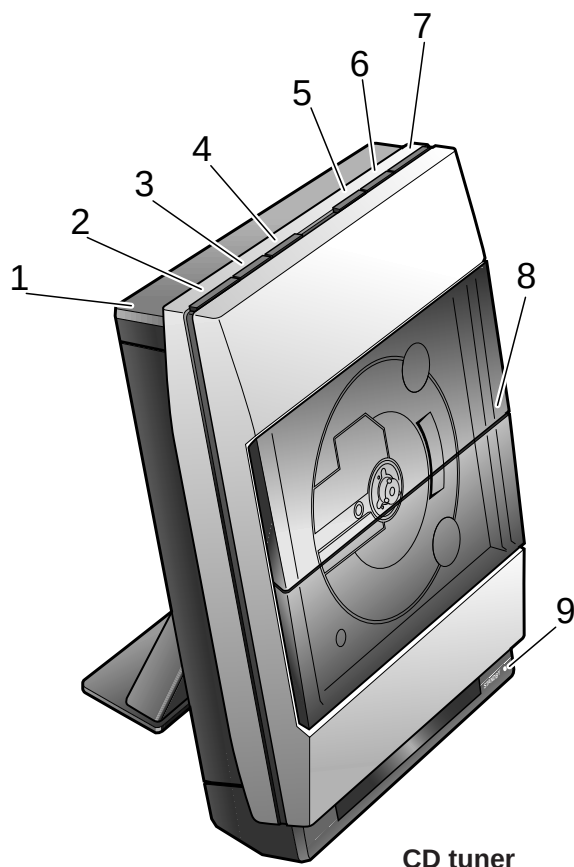
F1, F2 : Filament NP : No Pin NC : No Connection NX : No Extend Pin DL : Datum Line 1G~13G : Grid

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

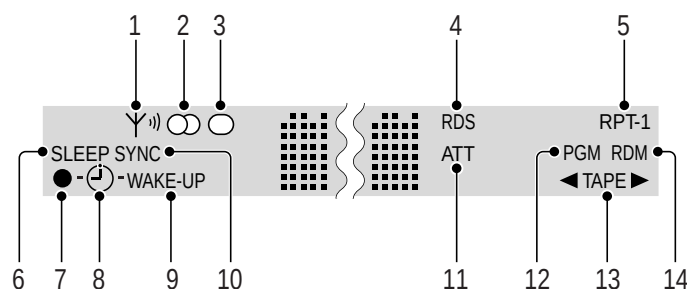
CD tuner

- 1 **Top cover** – Remove to access the antenna terminals and auxiliary inputs
- 2 **STANDBY/ON** – Press to switch the system on or into standby
- 3 **VOL –** – Use to reduce the volume
- 4 **VOL +** – Use to increase the volume
- 5 **■** – Press to stop the currently playing CD
- 6 **▶/||** – Press to start CD playback, or pause a disc that's already playing (press again to restart)
- 7 **OPEN/CLOSE** – Press to open/close the disc compartment
- 8 **Disc compartment** – The disc compartment automatically opens when you move your hand near
- 9 **Standby indicator** – Lights when the system is in standby.



CD tuner

Display



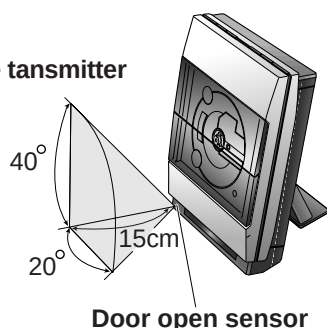
- 1 **Tuning indicator** – Lights when the tuner is tuned to a broadcast.
- 2 **FM stereo indicator** – Lights when you're listening to an FM broadcast in stereo.
- 3 **FM mono indicator** – Lights when you're listening to an FM broadcast in mono.
- 4 **RDS** – Lights when the tuner is in RDS mode.
- 5 **RPT[-1]** – Indicates the repeat mode (RPT for repeat disc; RPT-1 for repeat track).
- 6 **SLEEP** – Lights when the sleep timer has been set.
- 7 **Record timer** – Lights when the record timer has been set for the tape deck, MD recorder or CD-Recorder.
- 8 **Timer set indicator** – Indicates that the wake-up and/or the record timer have been set.
- 9 **WAKE UP** – Lights when the wake up timer has been set.
- 10 **SYNC** – Lights during automatic sync recording.
- 11 **ATT** – Lights when the auxiliary input signal is being attenuated (reduced in level).
- 12 **PGM** – Lights when a playlist has been programmed.
- 13 **◀TAPE▶** – Indicates the play direction of the tape.
- 14 **RDM** – Lights during random track playback.

About the automatic door open/close feature

The automatic opening of the disc compartment works using an infrared sensor. It may not work reliably if:

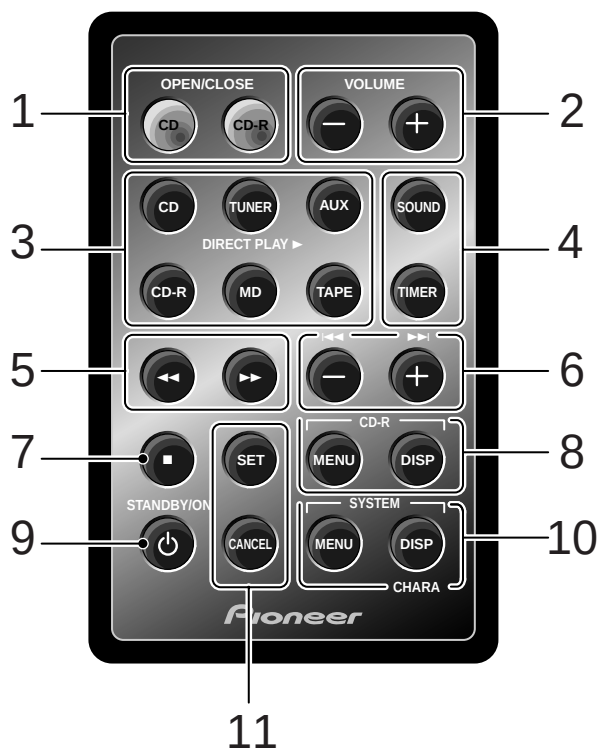
- the sensor is exposed to direct sunlight
- the room is lit using fluorescent lights
- the unit is on a dark-colored surface
- the unit is placed adjacent to a wall or other surface

Approximate transmitter range



See Operating instructions if you want to turn this feature off completely and just use OPEN/CLOSE buttons on the remote or top panel.

Remote control



- 1 OPEN/CLOSE buttons** – Press to open/close the disc compartment of the CD player and optional CD-Recorder.
- 2 VOLUME buttons** – Use to adjust the volume.
- 3 Direct Play buttons** – Press to switch to CD, tuner, tape, MD, CD-R or AUX (auxilliary). If the system is in standby, the power is also switched on. For CD, tape, MD and CD-R, playback will start if there's a CD/tape/MD loaded. This system can't control a component connected to the auxiliary inputs.
- 4 SOUND** – Press to select bass, treble, balance or sub-woofer level (use the + and – buttons to adjust the level).
TIMER – Press to access the timer menu for setting the wake-up, sleep and record timers.
- 5 ◀▶** – Press to scan backwards/forwards on the CD/tape/MD currently playing.
- 6 – + (◀▶)** – Use to switch between menu options; adjust the sound; change the preset station number when listening to the tuner; or skip tracks on the currently playing CD/tape/MD.
- 7 ■** – Press to stop the currently playing CD/tape/MD.
- 8 CD-R control**
MENU – Press to access the menu for the optional CD-Recorder.
DISP – Press to change the disc information shown in the optional CD-R's display.
- 9 ⏻ (STANDBY/ON)** – Press to switch the system on or into standby.
- 10 SYSTEM control**
MENU – Press to access the menu.
DISP/CHARA – Press to change the displayed information (this varies according to the current function).
- 11 SET** – Press to make a setting when using the menu system.
CANCEL – Press to escape from within a menu.

8.2 SPECIFICATIONS

Stereo CD Tuner: XC-F10

FM Tuner Section

Frequency Range 87.5 - 108MHz

Antenna 75 Ω , unbalanced

AM Tuner Section

Frequency Range 531 kHz - 1,602 kHz (9 kHz step);

530 kHz - 1,700 kHz (10 kHz step)

Antenna Loop antenna

Compact Disc Player Section

Type Compact disc digital audio system

Usable discs Compact discs

Channels 2 (stereo)

Frequency Response 4 Hz–20 kHz

Signal-to-Noise Ratio 110 dB (EIAJ)

Wow and Flutter Limit of measurement

..... (0.001%) or less (EIAJ)

Dimensions 170 (W) $\times$ 268 (H) $\times$ 66 (D) mm
(without stands and door closed)

Weight 1.5 kg

Accessories

Remote control unit	1
Stand A	1
Stand B	1
Paper pattern	1
System cable	1
FM wire antenna	1
AM loop antenna	1
Lithium battery (CR2025)	1
AC power cord	1
Operating instructions	1
Warranty card	1

NOTE: Specifications and design subject to possible modification without notice, due to improvements.

ACCESSORIES



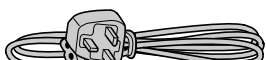
Remote control unit
(AXD7271)



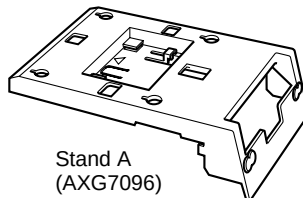
! Lithium battery (CR2025)



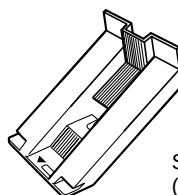
AC power cord
(ADG7010)
(For MYXJ type)



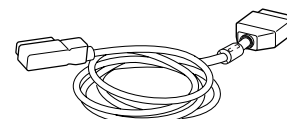
AC power cord
(ADG7009)
(For NVXJ type)



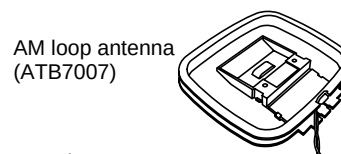
Stand A
(AXG7096)



Stand B
(AXG7097)



System cable (ADE7057)



AM loop antenna
(ATB7007)

FM wire antenna
(ADH7005)

