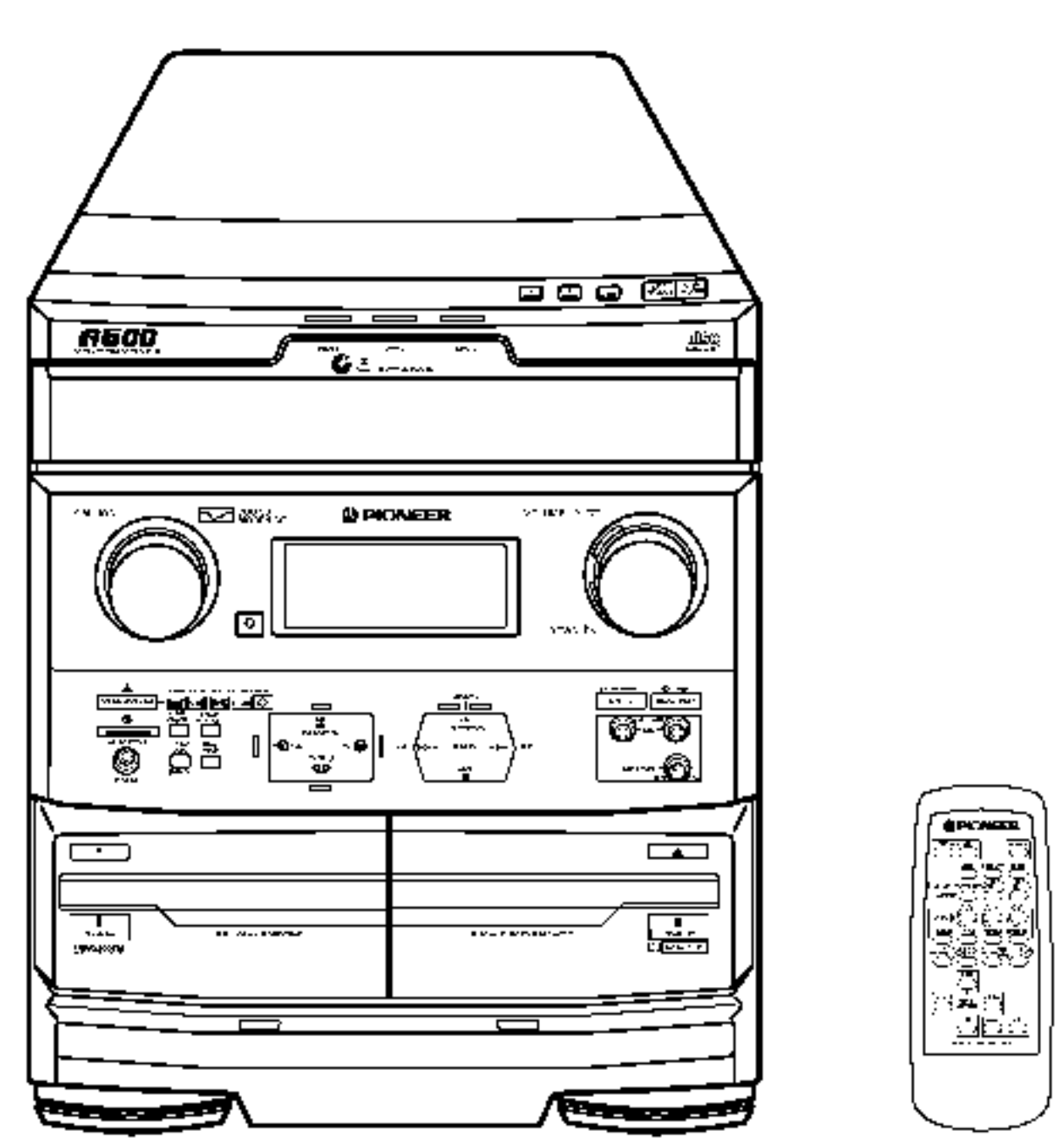


Service Manual



ORDER NO.
ARP2973

STEREO CD CASSETTE DECK RECEIVER

XR-A600

XR-A500

XR-A500EE

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

Type	Model			Power Requirement	The voltage can be converted by the following method.
	XR-A600	XR-A500	XR-A500EE		
DDXJ	O	O	—	AC110 – 127V/220 – 230V/240V	With the voltage selector
DLXJ/NC	O	—	—	AC110 – 120V/220 – 230V/240V	With the voltage selector
DLXJN/NC	O	—	—	AC110 – 120V/220 – 230V/240V	With the voltage selector
DXJ/NC	O	—	—	AC110 – 127V/220 – 230V/240V	With the voltage selector
YPWXJ	O	O	—	AC240V	—
DLWXJ/EE	—	—	O	AC110 – 120V/220 – 230V/240V	With the voltage selector

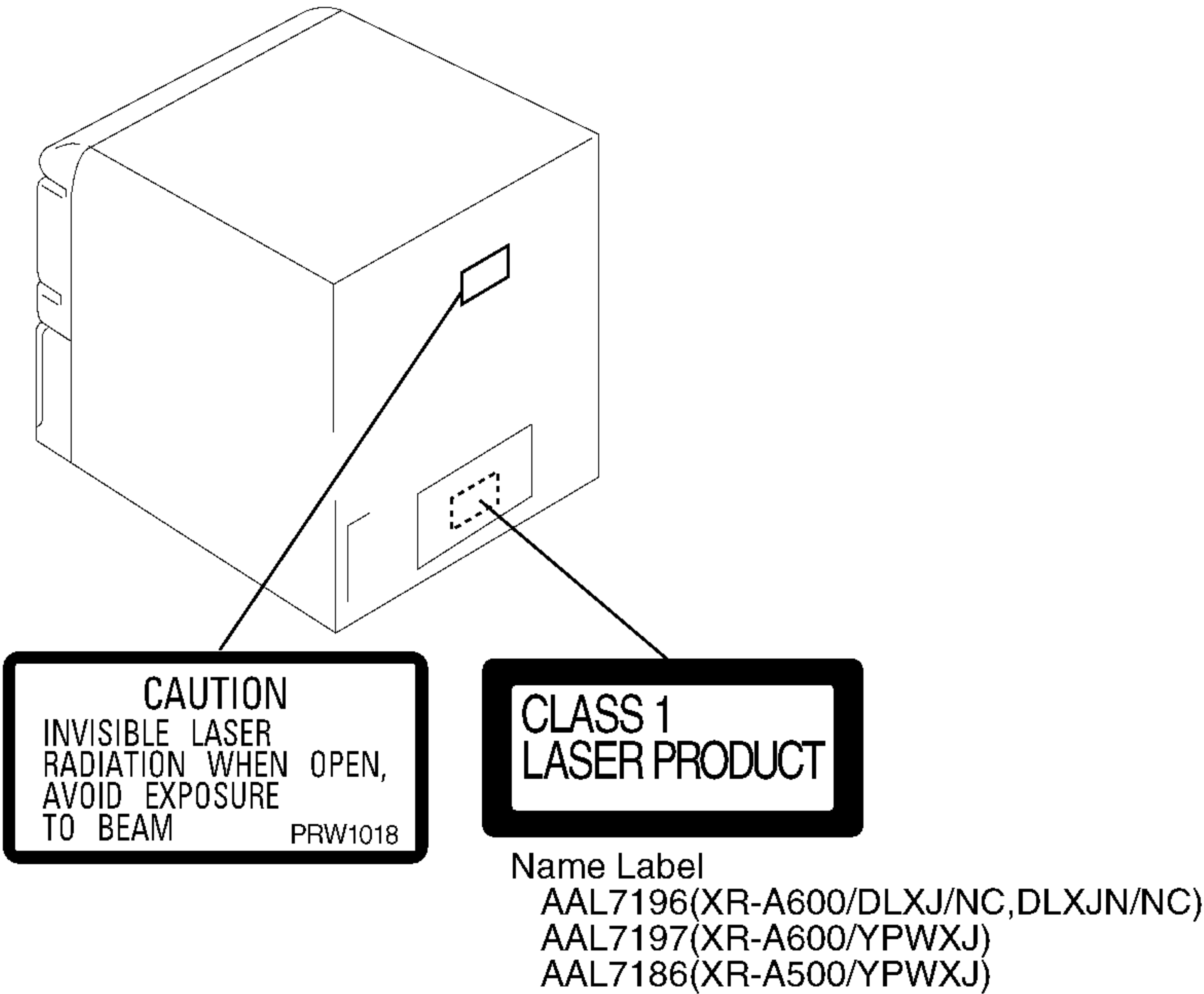
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1. SAFETY INFORMATION

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

LABEL CHECK (For DLXJ/NC, DLXJN/NC AND YPWXJ types)



Additional Laser Caution

1. Laser Interlock Mechanism

The position of the switch (S8501) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S8501) is pressed physically. Thus, the interlock will no longer function if the switch (S8501) is released physically and deliberately. The interlock also does not function in the test mode *. Laser diode oscillation will continue, if pin 62 of LA9240ML (IC8101) on the CD ASSY mounted on the \$M Loading Mechanism assembly is connected to GND, or else the terminals of Q8101 are shorted to each other (fault condition).

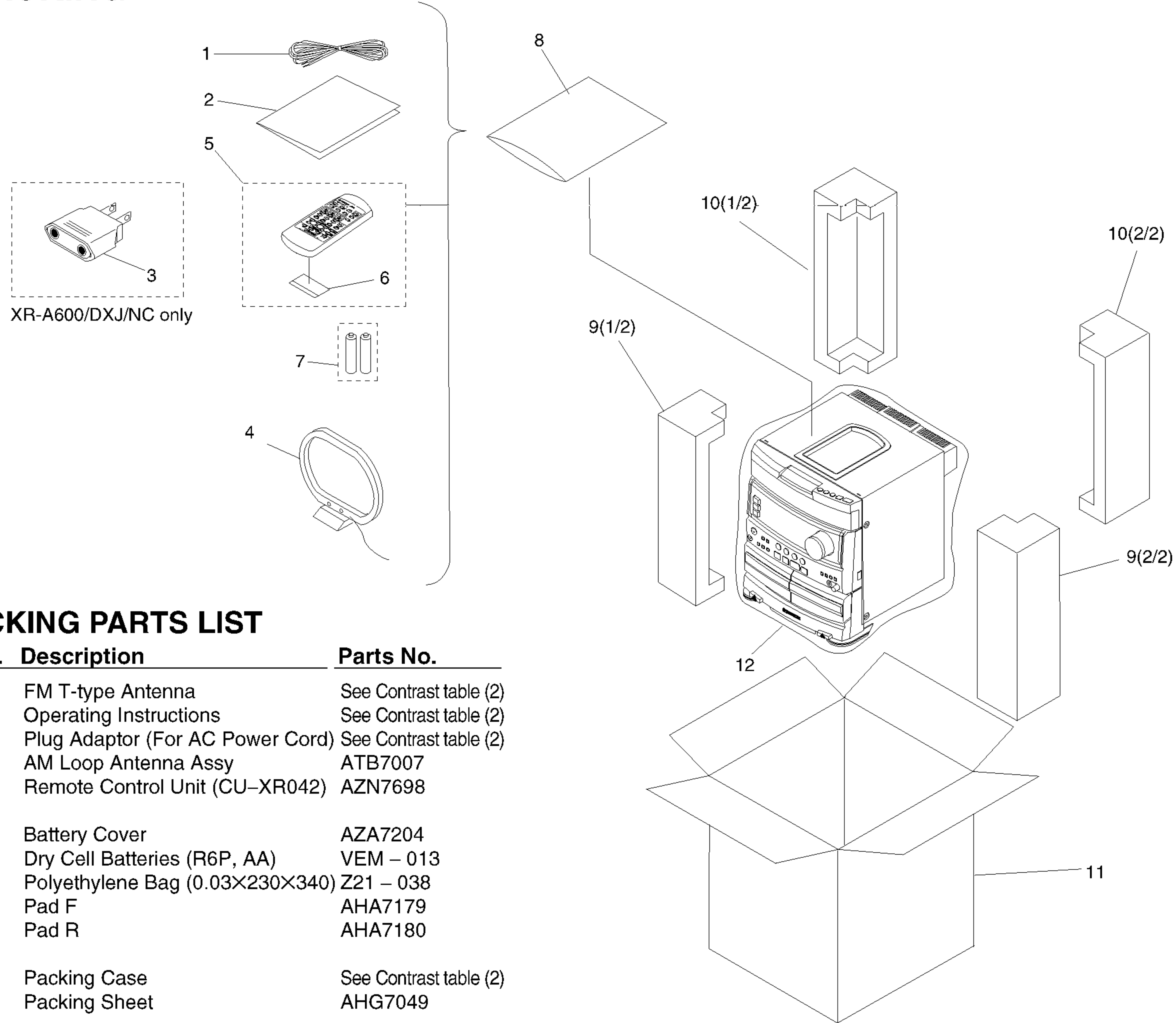
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* : Refer to page 61.

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 $\triangle$ 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 product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

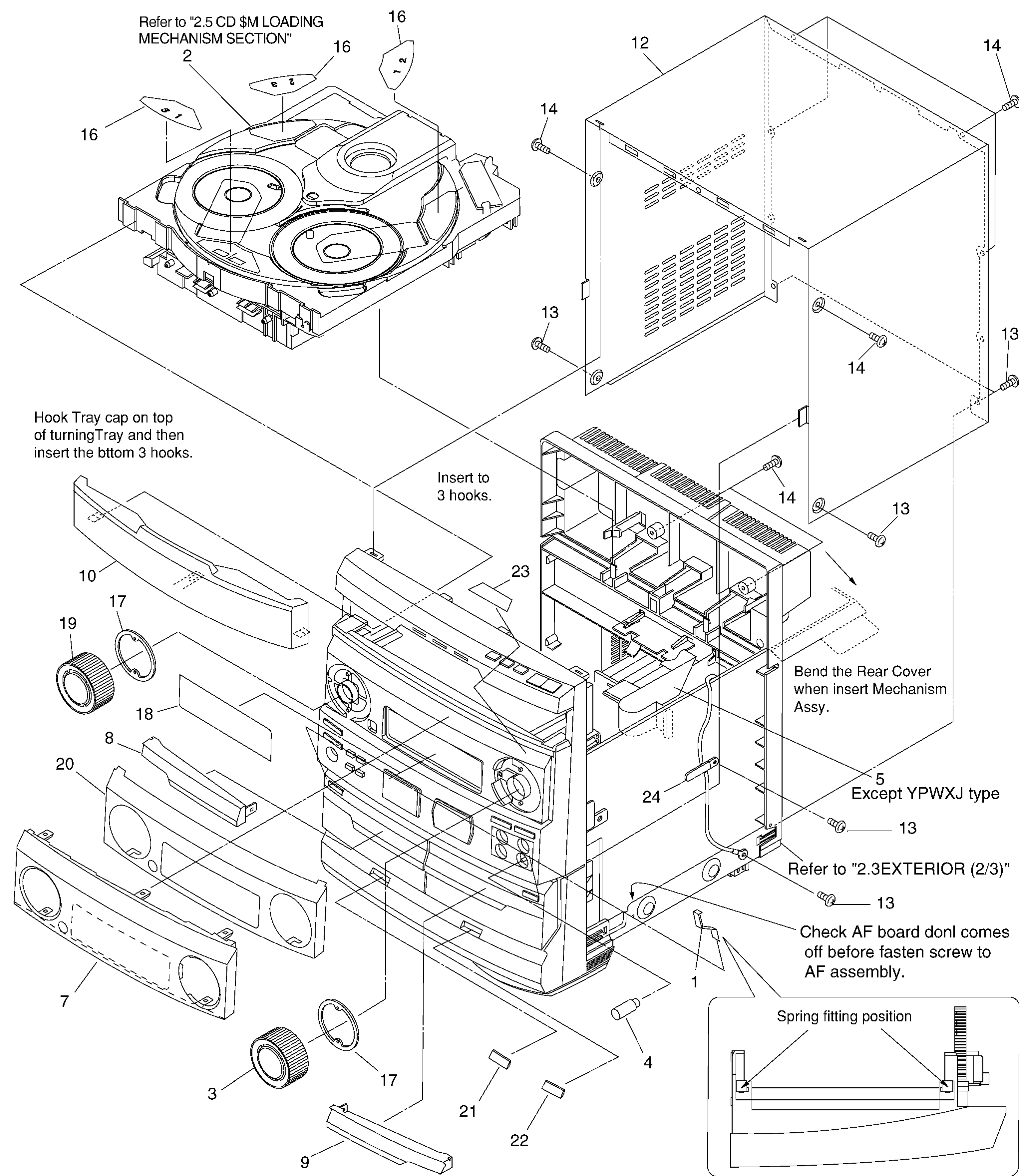
Mark	No.	Description	Parts No.
	1	FM T-type Antenna	See Contrast table (2)
	2	Operating Instructions	See Contrast table (2)
	3	Plug Adaptor (For AC Power Cord)	See Contrast table (2)
	4	AM Loop Antenna Assy	ATB7007
	5	Remote Control Unit (CU-XR042)	AZN7698
NSP	6	Battery Cover	AZA7204
	7	Dry Cell Batteries (R6P, AA)	VEM - 013
	8	Polyethylene Bag (0.03X230X340)	Z21 - 038
	9	Pad F	AHA7179
	10	Pad R	AHA7180
	11	Packing Case	See Contrast table (2)
	12	Packing Sheet	AHG7049

(2) CONTRAST TABLE

XR-A600/DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ, DXJ/NC, XR-A500/DDXJ, YPWXJ and XR-A500EE/DLWXJ/EE are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.								Remarks
			XR-A600					XR-A500		XR-A500EE	
			DDXJ	DLXJ/NC	DLXJN/NC	YPWXJ	DXJ/NC	DDXJ	YPWXJ	DLWXJ/EE	
	1	FM T-type Antenna	ADH7004	ADH7004	ADH7004	ADH7004	ADH7004	ADH7004	ADH7004	ADH7011	
	2	Operating Instructions (English/Spanish/Chinese)	ARE7142	Not used	Not used	Not used	Not used	ARE7142	Not used	Not used	
	2	Operating Instructions (English)	Not used	Not used	Not used	ARB7128	Not used	Not used	ARB7128	Not used	
	2	Operating Instructions (English/Russian)	Not used	Not used	Not used	Not used	Not used	Not used	Not used	ARE7141	
	2	Operating Instructions (English/Chinese)	Not used	ARE7137	ARE7137	Not used	Not used	Not used	Not used	Not used	
	2	Operating Instructions (English/Spanish/Portuguese)	Not used	Not used	Not used	Not used	ARE7139	Not used	Not used	Not used	
	3	Plug Adaptor(For AC Power Cord)	Not used	Not used	Not used	Not used	VKX1007	Not used	Not used	Not used	
	11	Packing Case	AHD7504	AHD7505	AHD7558	AHD7550	AHD7505	AHD7499	AHD7549	AHD7502	

2.2 EXTERIOR (1/3)



NOTE : Screws adjacent to ▼ mark on product are used for disassembly. However, there is no indication on the hood installation screws of the Rear Cover.

(1) EXTERIOR (1/3) PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	Spring	RBK1004		16	Disc Label	XAX3046
	2	CD \$M Loading Mechanism	See Contrast table (2)		17	Knob Spacer	AAK7498
	3	VOL Knob	AAB7134		18	FL Filter	AAK7518
	4	MIC Knob	See Contrast table (2)		19	Jog Knob Assy	AXG7051
	5	20P F.F.C/30V	See Contrast table (2)		20	FL Cover	AAK7542
	6				21	Azimuth Cover L	AAK7555
	7	FL Lens	AAK7453		22	Azimuth Cover R	AAK7556
	8	Deck Door Lens L	AAK7459	NSP	23	Getter	See Contrast table (2)
	9	Deck Door Lens R	AAK7460		24	Cord Pressure	See Contrast table (2)
	10	Tray Cap	AAK7457				
	11						
	12	Bonnet Case	AZN7703				
	13	Screw	VBZ30P080FZK				
	14	Screw	BPZ30P100FZK				
	15						

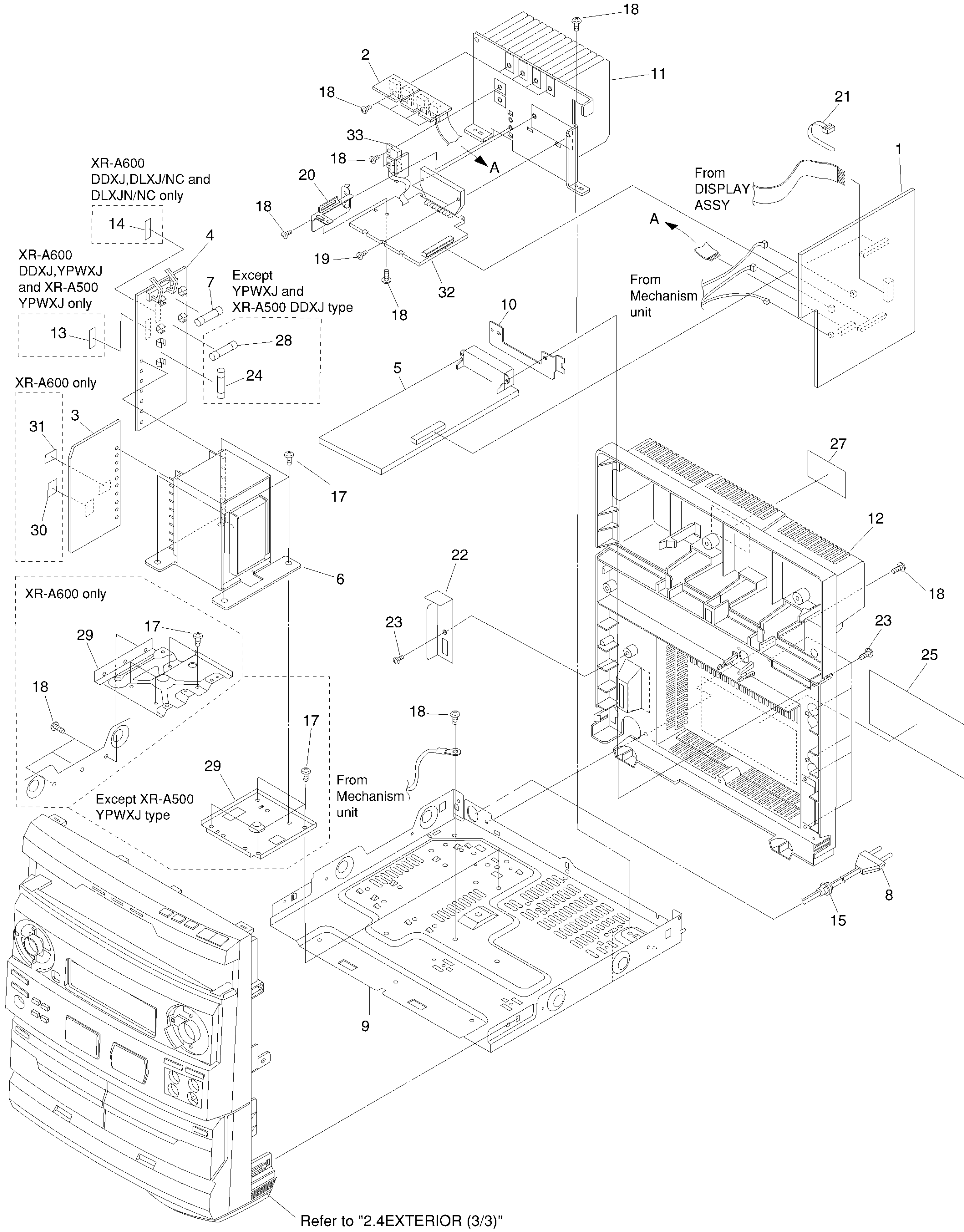
(2) CONTRAST TABLE

XR-A600/DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ, DXJ/NC, XR-A500/DDXJ, YPWXJ and XR-A500EE/DLWXJ/EE are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.								Remarks
			XR-A600					XR-A500		XR-A500EE	
			DDXJ	DLXJ/NC	DLXJN/NC	YPWXJ	DXJ/NC	DDXJ	YPWXJ	DLWXJ/EE	
NSP	2	CD \$M Loading Mechanism	XXA3002	XXA3002	XXA3002	AXA7056	XXA3002	XXA3002	AXA7056	XXA3002	
	4	MIC Knob (MIC LEVEL)	AAB7132	AAB7132	AAB7132	AAB7132	AAB7132	AAB732	AAB7132	Not used	
	5	20P F.F.C/30V	ADD7041	ADD7041	ADD7041	Not used	ADD7041	ADD7041	Not used	ADD7041	
NSP	5	22P F.F.C/30V	Not used	Not used	Not used	ADD7055	Not used	Not used	ADD7055	Not used	
	23	Getter	AAX7572	AAX7572	AAX7572	AAX7576	AAX7572	AAX7568	AAX7575	AAX7575	
	24	Cord Pressure	Not used	Not used	Not used	RNH – 184	Not used	Not used	RNH – 184	Not used	

XR-A600,XR-A500,XR-A500EE

2.3 EXTERIOR (2/3)



(1) EXTERIOR (2/3) PARTS LIST

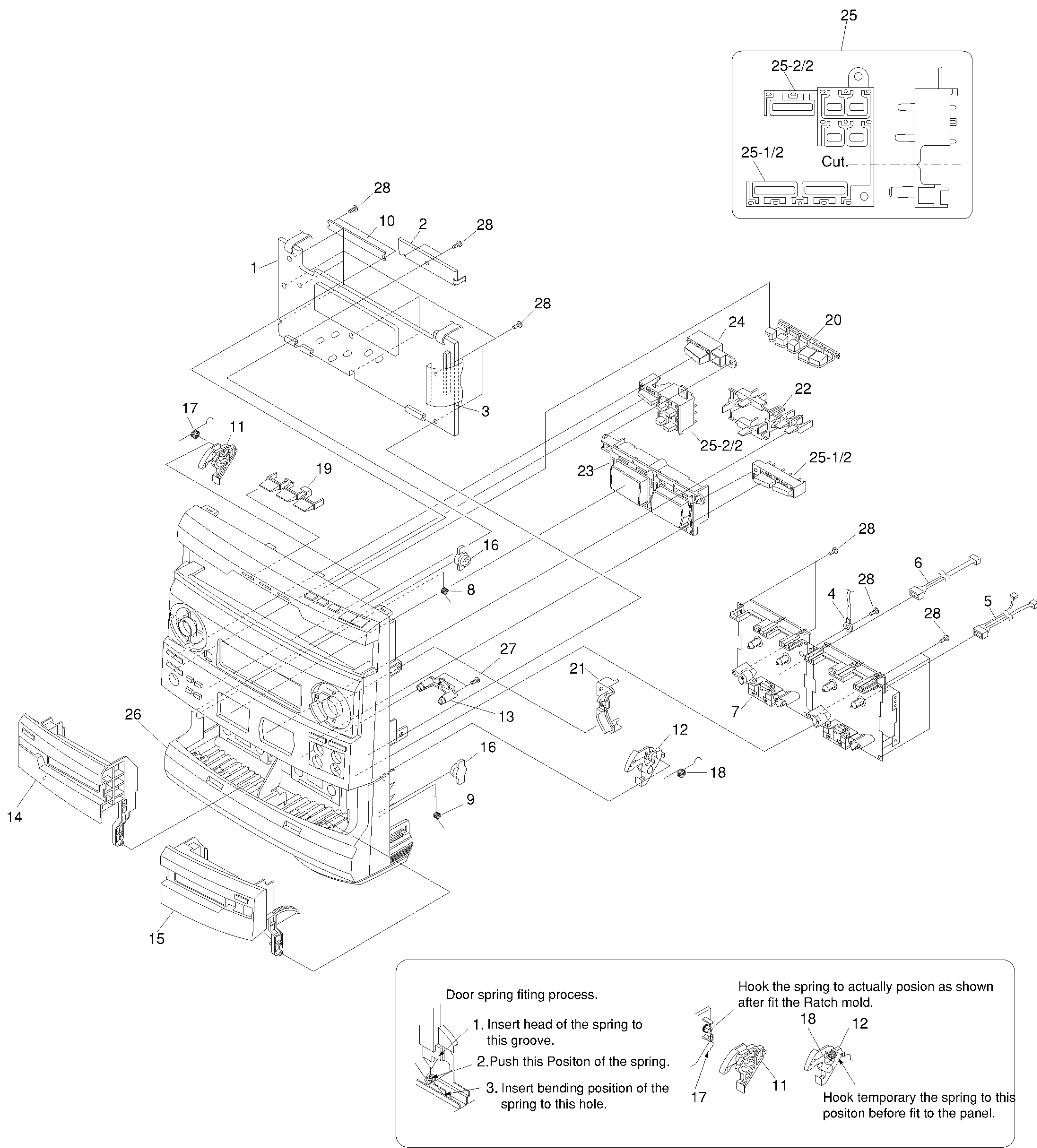
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	AF Assy	See Contrast table (2)		21	Binder	ZCA – SKB90BK
	2	REG. ASSY	AWZ8905		22	PVC Barrier	See Contrast table (2)
	3	SECONDARY ASSY	See Contrast table (2)		23	Screw	BPZ30P100FZK
	4	PRIMARY ASSY	See Contrast table (2)	△	24	Fuse (FU2)	See Contrast table (2)
	5	FM/AM TUNER MODULE	See Contrast table (2)	NSP	25	Name Label	See Contrast table (2)
△	6	Power Transformer (T1)	See Contrast table (2)		26		
△	7	Fuse (FU1)	See Contrast table (2)		27	Caution Label	See Contrast table (2)
△	8	AC Power Cord	See Contrast table (2)	△	28	Fuse (FU3)	See Contrast table (2)
NSP	9	Chassis	ANA7051		29	Trans. Frame	See Contrast table (2)
	10	GND Plate	ANG7106		30	ICP Label	See Contrast table (2)
	11	Heat Sink	See Contrast table (2)		31	ICP Label	See Contrast table (2)
	12	Rear Cover	See Contrast table (2)		32	POWER ASSY	See Contrast table (2)
NSP	13	Fuse card	See Contrast table (2)		33	FET ASSY	AWZ8921
NSP	14	Fuse card	See Contrast table (2)				
	15	Strain relief	CM – 22B				
	16						
	17	Screw	ASZ40P060FMC				
	18	Screw	VBZ30P080FZK				
	19	Screw	BBZ30P180FMC				
	20	Bracket B	ANG7107				

(2) CONTRAST TABLE

XR-A600/DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ, DXJ/NC, XR-A500/DDXJ, YPWXJ and XR-A500EE/DLWXJ/EE are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.								Remarks
			XR-A600					XR-A500		XR-A500EE	
			DDXJ	DLXJ/NC	DLXJN/NC	YPWXJ	DXJ/NC	DDXJ	YPWXJ	DLWXJ/EE	
	1	AF ASSY	AWZ8908	AWZ8908	AWZ8908	AWU7045	AWZ8908	AWZ8907	AWU7010	AWU7046	
	3	SECONDARY ASSY	AWZ8913	AWZ8913	AWZ8913	AWZ8913	AWZ8913	AWU7051	AWU7051	AWU7051	
	4	PRIMARY ASSY	AWZ8910	AWZ8910	AWZ8910	AWZ8922	AWZ8910	AWZ8910	AWZ8922	AWZ8910	
	5	FM/AM TUNER MODULE	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7069	
△	6	Power Transformer (T1)	ATS7184	ATS7184	ATS7184	ATS7184	ATS7184	ATS7185	ATS7185	ATS7185	
△	7	Fuse (T5A/250V, FU1)	AEK1061	AEK1061	AEK1061	Not used	AEK1061	Not used	Not used	Not used	
△	7	Fuse (T2.5A/250V, FU1)	Not used	Not used	Not used	AEK1058	Not used	AEK1058	Not used	Not used	
△	7	Fuse (T1.25A/250V, FU1)	Not used	Not used	Not used	Not used	Not used	Not used	AEK1055	AEK1055	
△	8	AC Power Cord	ADG1157	PDG1058	PDG1058	ADG1159	PDG1058	ADG1157	ADG1159	PDG1058	
	11	Heat Sink	ANH7065	ANH7065	ANH7065	ANH7065	ANH7065	ANH7078	ANH7078	ANH7078	
	12	Rear Cver	AMC7021	AMC7023	AMC7023	AMC7012	AMC7021	AMC7017	AMC7012	AMC7018	
NSP	13	Fuse card	AAX7277	AAX7277	AAX7277	AAX7277	AAX7277	Not used	Not used	Not used	
NSP	14	Fuse card	AAX7098	AAX7098	AAX7098	Not used	AAX7098	Not used	AAX2348	Not used	
	22	PVC Barrier	AEC7103	AEC7103	AEC7103	AEC7115	AEC7103	AEC7099	AEC7115	AEC7099	
△	24	Fuse (T2.5A/250V, FU2)	AEK1058	AEC1058	AEC1058	Not used	AEK1058	Not used	Not used	AEK1058	
△	24	Fuse (T1.25A/250V, FU2)	Not used	Not used	Not used	Not used	Not used	AEK1055	Not used	Not used	
NSP	25	Name Label	AAL7194	AAL7196	AAL7196	AAL7197	AAL7195	AAL7185	AAL7186	AAL7191	
	27	Caution Label	Not used	PRW1018	PRW1018	PRW1018	Not used	Not used	PRW1018	Not used	
△	28	Fuse (T2.5A/250V, FU3)	AEK1058	AEK1058	AEK1058	Not used	AEK1058	Not used	Not used	Not used	
△	28	Fuse (T1.25A/250V, FU3)	Not used	Not used	Not used	Not used	Not used	AEK1055	Not used	AEK1055	
	29	Trans. Frame	ANG7149	ANG7149	ANG7149	ANG7149	ANG7149	ANG7171	Not used	ANG7171	
	30	ICP Label	AAX7577	AAX7577	AAX7577	AAX7577	AAX7577	Not used	Not used	Not used	
	31	ICP Label	AAX7578	AAX7578	AAX7578	AAX7578	AAX7578	Not used	Not used	Not used	
	32	POWER Assy	AWZ8920	AWZ8920	AWZ8920	AWZ8920	AWZ8920	AWZ8919	AWZ8919	AWZ8919	

2.4 EXTERIOR (3/3)



(1) EXTERIOR (3/3) PARTS LIST

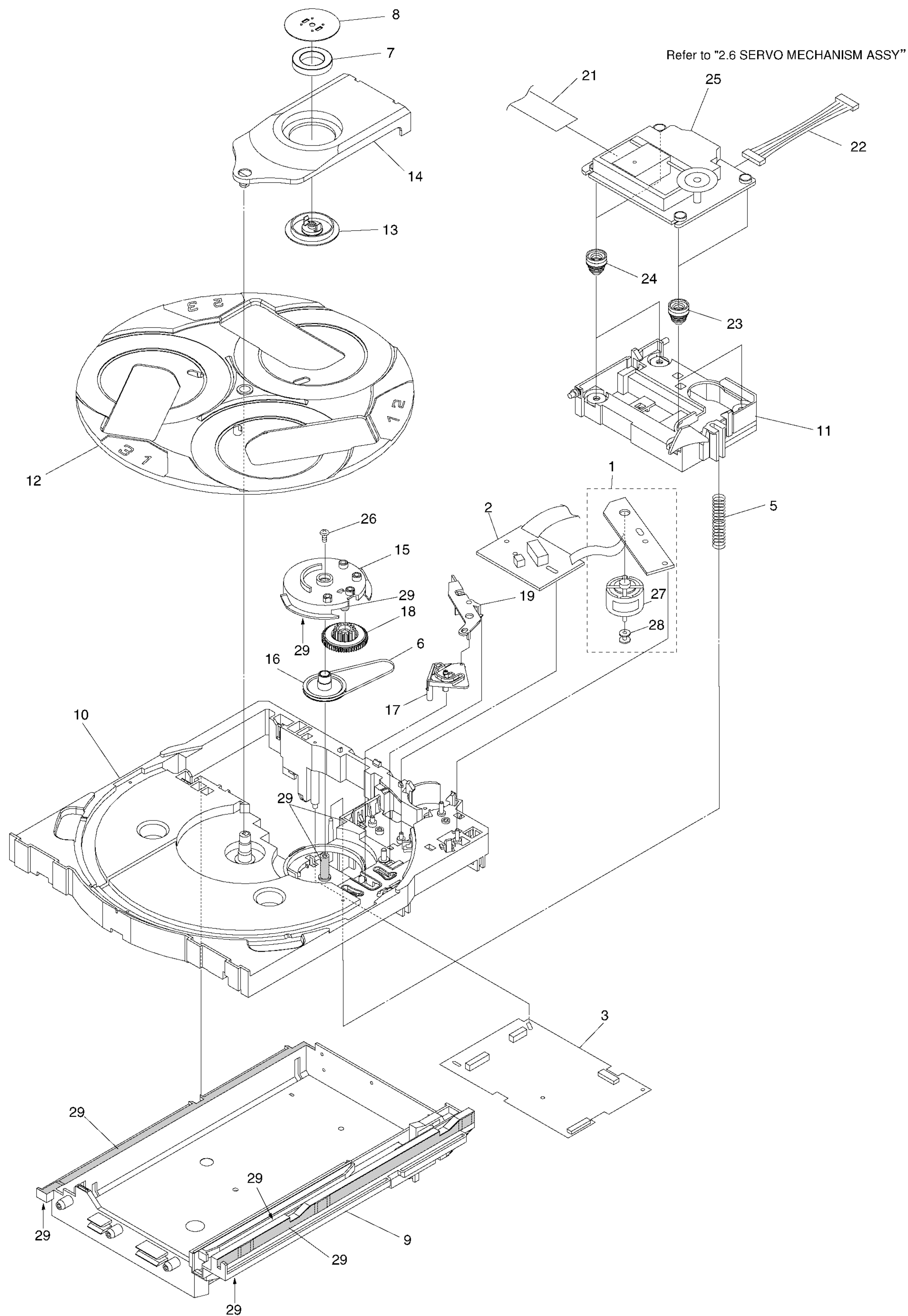
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	DISPLAY ASSY	See Contrast table (2)		20	CD Button	AAD7402
NSP	2	CD SWITCH ASSY	AWZ8932		21	VOL Lens	AAK7456
	3	35P F.F.C/60V	See Contrast table (2)		22	Function Lens	AAK7458
	3	29P F.F.C60V	See Contrast table (2)		23	Function Button	AAD7403
NSP	4	Earth Lead Wire	DEO15VEO		24	SFC Button	AAD7405
	5	Connector Assy 5P, (J3)	RKP1582		25	Power Button	AAD7404
	6	Connector Assy 3P, (J4)	RKP1583		26	Front Panel	See Contrast table (2)
	7	Mechanism Unit	AYM7002		27	Screw	BPZ30P100FMC
	8	Door Spring L	ABH7152		28	Screw	BPZ30P100FZK
	9	Door Spring R	ABH7153				
NSP	10	CD LED ASSY	AWZ8933				
	11	Ratch Mold L	AMR7128				
	12	Ratch Mold R	AMR7129				
	13	Mechanism Support C	AMR7192				
	14	Deck Door L	AAN7168				
	15	Deck Door R	See Contrast table (2)				
	16	Damper Assy	AXA7057				
	17	Ratch Spring L	ABH7130				
	18	Ratch Spring R	ABH7131				
	19	CD Lens	AAK7455				

(2) CONTRAST TABLE

XR-A600/DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ, DXJ/NC, XR-A500/DDXJ, YPWXJ and XR-A500EE/DLWXJ/EE are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.								Remarks
			XR-A600					XR-A500		XR-A500EE	
			DDXJ	DLXJ/NC	DLXJN/NC	YPWXJ	DXJ/NC	DDXJ	YPWXJ	DLWXJ/EE	
	1	DISPLAY ASSY	AWZ8914	AWZ8914	AWZ8914	AWZ8915	AWZ8914	AWZ8914	AWZ8915	AWZ8916	
	3	35P.F.F.C/60V	ADD7070	ADD7070	ADD7070	ADD7070	ADD7070	ADD7070	ADD7070	Not used	
	3	29P.F.F.C/60V	Not used	Not used	Not used	Not used	Not used	Not used	Not used	ADD7069	
	15	Deck Door R	AAN7169	AAN7169	AAN7169	AAN7176	AAN7169	AAN7169	AAN7176	AAN7176	
	26	Front Panel	AMB7478	AMB7478	AMB7478	AMB7478	AMB7478	AMB7472	AMB7472	AMB7473	

2.5 CD \$M LOARDING MECHANISM SECTION



(1) CD \$M LOADING MECHANISM SECTION PARTS LIST

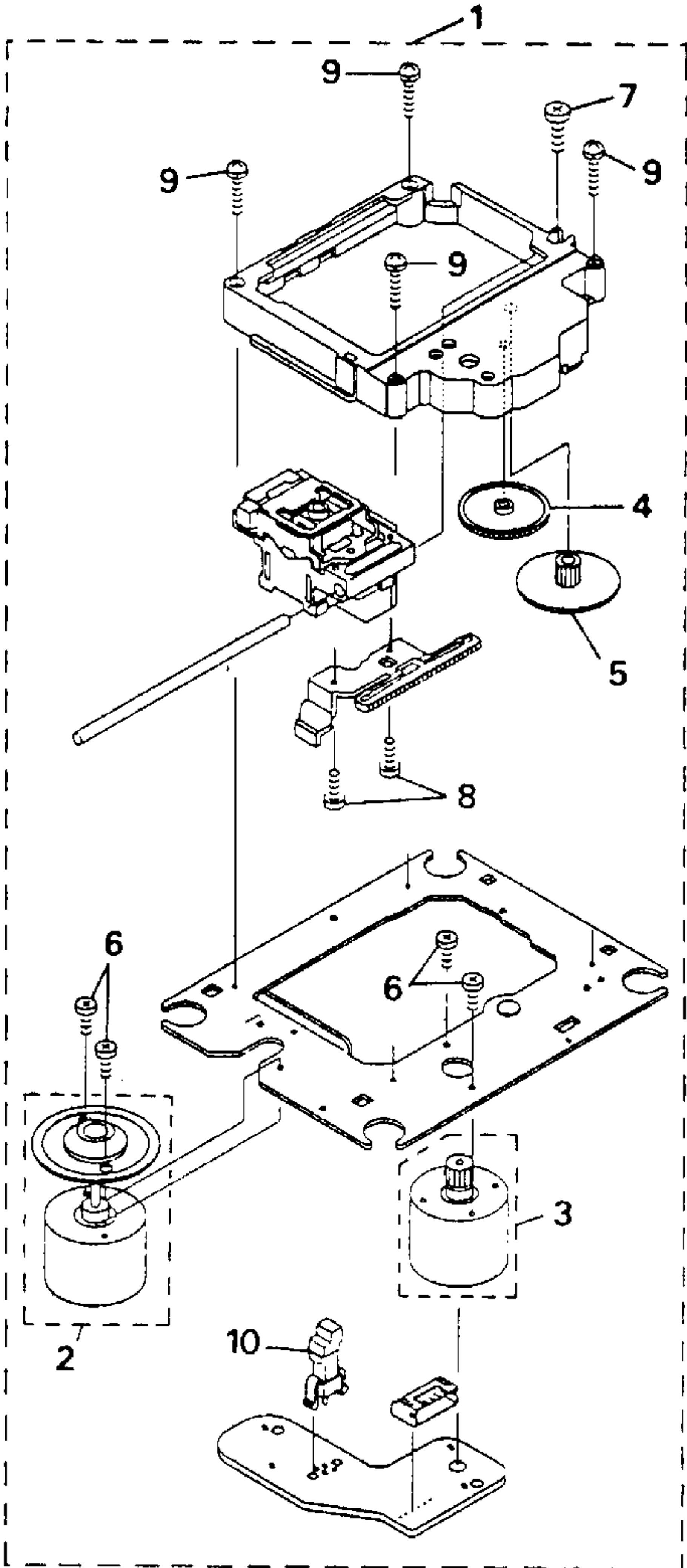
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	MOTOR ASSY	AWZ8428	16	Gear Pully	ANW7094	
	2	SW ASSY	AWZ8429	17	Lock Lever	ANW7095	
	3	CD ASSY	See Contrast table(2)	18	Planet Gear	ANW7096	
	4			19	Actuator	ANW7097	
	5	Servo Spring	ABH7126	20	Motor Cover	ANW7098	
	6	Belt	AEB7072	21	15P F.F.C/30V	ADD7038	
	7	Clamp Magnet	AMF7001	22	Connector Assy (6P)	ADE7010	
	8	Yoke	ANB7067	23	Float Rubber A	AEB7063	
	9	Mechanism Base	ANW7087	24	Float Rubber B	AEB7066	
	10	Loading Tray	ANW7088	25	Servo Mechanism Assy	AXA7039	
	11	Servo Base	ANW7089	26	Screw	IPZ30P080FMC	
	12	Rotary Tray	ANW7113	27	Carriage Motor	VXM1033	
	13	Clamper	ANW7091	28	Motor Pully	PNW1634	
	14	Clamper Holder	ANW7092	29	Ha Narl (For service)	GEM1016	
	15	Main Cam	ANW7093				

(2) CONTRAST TABLE

XR-A600/DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ, DXJ/NC, XR-A500/DDXJ, YPWXJ and XR-A500EE/DLWXJ/EE are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.								Remarks
			XR-A600					XR-A500		XR-A500EE	
			DDXJ	DLXJ/NC	DLXJN/NC	YPWXJ	DXJ/NC	DDXJ	YPWXJ	DLWXJ/EE	
	3	CD ASSY	AWZ8427	AWZ8427	AWZ8427	AWZ8742	AWZ8427	AWZ8427	AWZ8742	AWZ8427	

2.6 SERVOMECHANISM ASSY

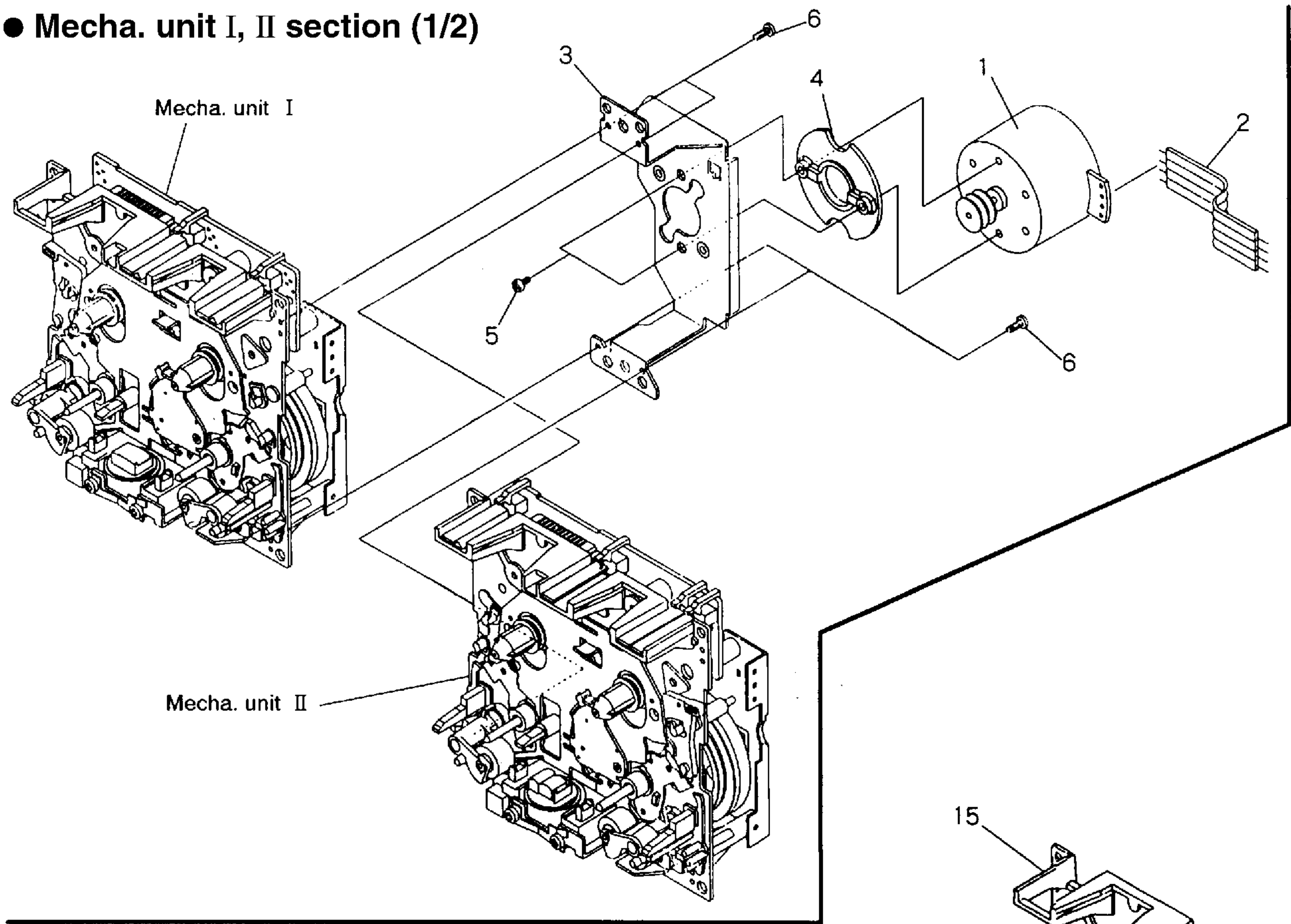


● SERVO MECHANISM ASSY PARTS LIST

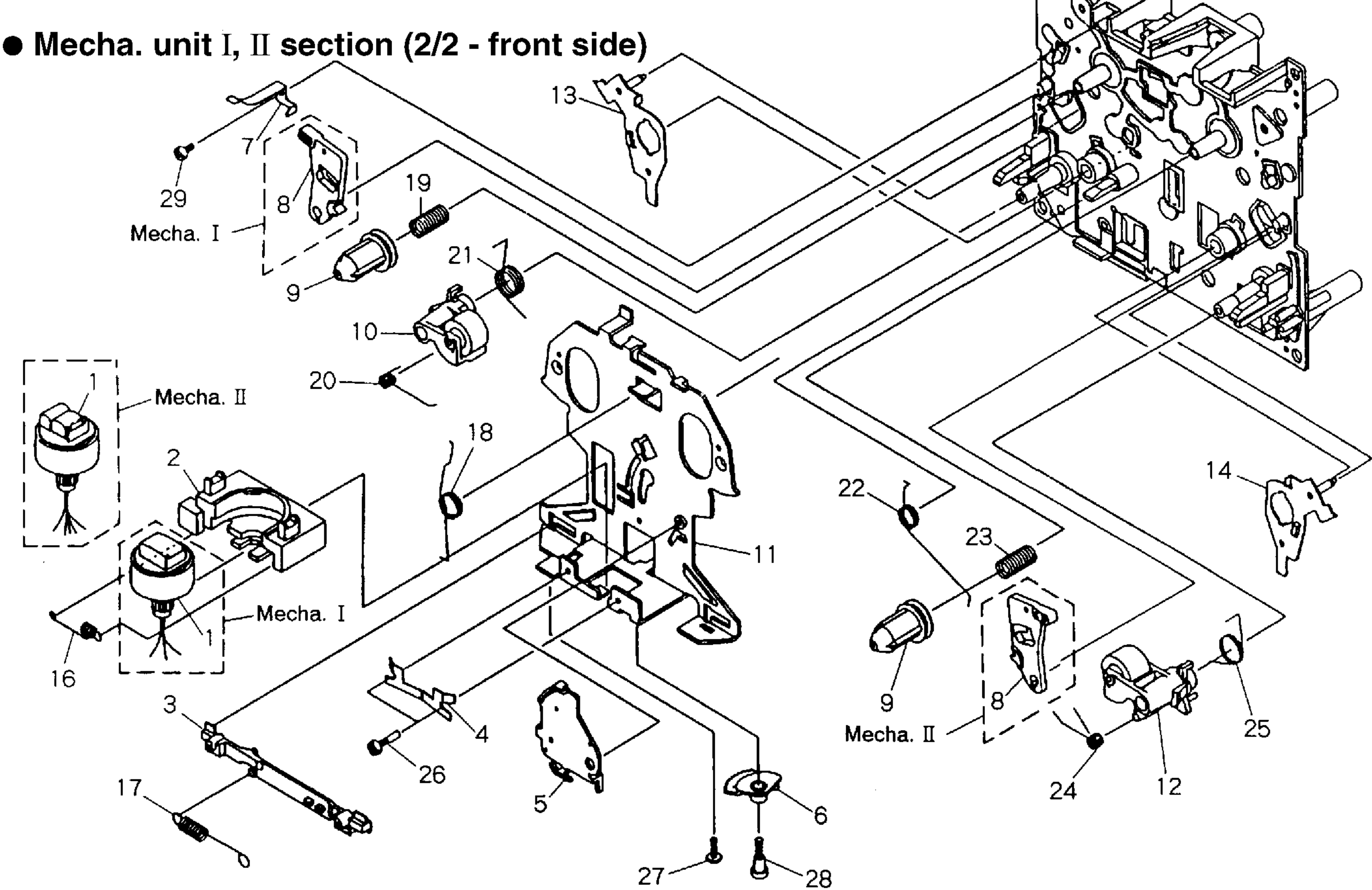
Mark	No.	Description	Parts No.
	1	Servo Mechanism	AXA7039
	2	SPINDLE MOTOR ASSY	AEA7009
	3	SLEAD MOTOR ASSY	AEA7010
	4	Gear A	AEA7013
	5	Gear B	AEA7014
	6	Screw	AEA7015
	7	Screw	AEA7016
	8	Screw	AEA7017
	9	Screw	AEA7018
	10	Leaf Switch	AEA7011

2.7 MECHANISM UNIT SECTION (1/2), (2/2) FRONT

● Mecha. unit I, II section (1/2)



● Mecha. unit I, II section (2/2 - front side)



XR-A600,XR-A500,XR-A500EE

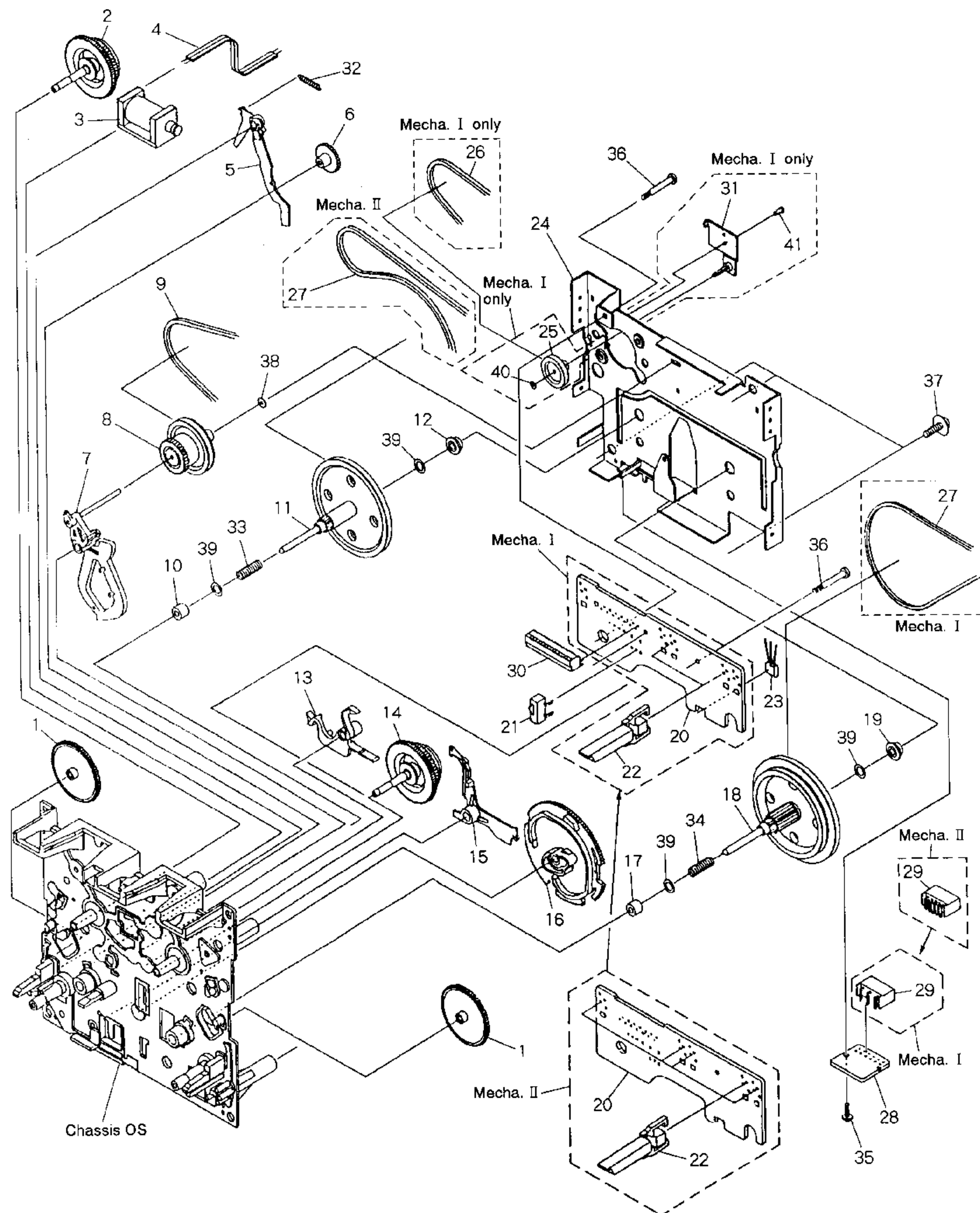
● MECHANISM UNIT SECTION (1/2) PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Assy Motor	RXM1080
	2	Jumper Cable	RDD1012
	3	Bracket Motor	RNE1830
	4	Spacer	RNK1822
	5	Screw	RBA1100
	6	Screw	PCZ20P040FMC

● MECHANISM UNIT SECTION (2/2) FRONT PARTS LIST

Mark	No.	Description	Parts No.
	1	Assy Holder Head (Mecha. I)	RXA1400
	1	Assy Holder Head (Mecha. II)	RXA1664
	2	Frame Head	RNK1715
	3	Lever Head	RNK1716
	4	Spring Azimuth	RBK1006
	5	Assy Arm Assist	RXA1401
	6	Gear Arm Head	RNK1717
	7	Spring Cassette	RBK1039
	8	Eject Lock	RNK1718
	9	Cap Reel	RNK1719
	10	Assy Pinch Arm L	RXA1403
	11	Chassis Head	RNE1437
	12	Assy Pinch Arm R	RXA1404
	13	Arm Play L	RNK1866
	14	Arm Play R	RNK1868
	15	Chassis OS	RXA1411
	16	Spring	RBH1282
	17	Spring	RBH1283
	18	Spring	RBH1284
	19	Spring	RBH1286
	20	Spring	RBH1288
	21	Spring	RBH1291
	22	Spring	RBH1285
	23	Spring	RBH1287
	24	Spring	RBH1289
	25	Spring	RBH1290
	26	Screw (azimuth)	RBA1023
	27	Screw	RBA1027
	28	Screw	RBA1030
	29	Screw	PCZ20P040FMC

2.8 MECHANISM UNIT SECTION (2/2) REAR



● MECHANISM UNIT SECTION (2/2) REAR PARTS LIST

Mark No.	Description	Parts No.
1	Gear Play	RNK1867
2	Assy Sub Reel L	RXA1407
3	Solenoid	RXP1020
4	Wire	RDC1006
5	Arm RVS	RNK1721
6	Gear FF	RNK1723
7	Assy Arm FR	RXA1412
8	Assy Pulley FR	RXA1413
9	Belt FR	REB1292
10	Metal	RNG1048
11	Assy Flywheel L	RXA1690
12	Metal	RNG1005
13	Arm Brake	RNK1724
14	Assy Sub Reel R	RXA1408
15	Arm Trigger	RNK1722
16	Gear Cam	RNK1725
17	Metal	RNG1049
18	Assy Flywheel R	RXA1691
19	Metal	RNG1004
20	P.C. Board	RNP1610
21	Switch Mode	RSN1020
22	Switch (LEAF)	RSN1019
23	Hall IC	DN6851A
24	Bracket FW (Mecha. I)	RNE1854
24	Bracket FW (Mecha. II)	RNE1438
25	Pulley (Mecha. I only)	RNK2132
26	Belt FW (Mecha. II only)	REB1291
27	Belt Main (Mecha. I)	REB1290
27	Belt Main (Mecha. II)	REB1289
28	P.C. Board	RNP1348
29	Housing (Mecha. I)	RKP1396
29	Housing (Mecha. II)	RKP1397
30	Connector (Mecha. I)	RKP1713
30	Connector (Mecha. II)	RKP1714
31	Assy Holder (Mecha. I only)	RXA1689
32	Spring	RBH1292
33	FWR SP (Spring)	RBH1061
34	Spring	RBH1325
35	Screw	PCZ20P040FMC
36	Screw	RBA1093
37	Screw	RBA1094
38	Washer	RBF1046
39	Washer	WA26D047D013
40	Washer (Mecha. I only)	WT13D030D025
41	Screw (Mecha. I only)	RBA1118

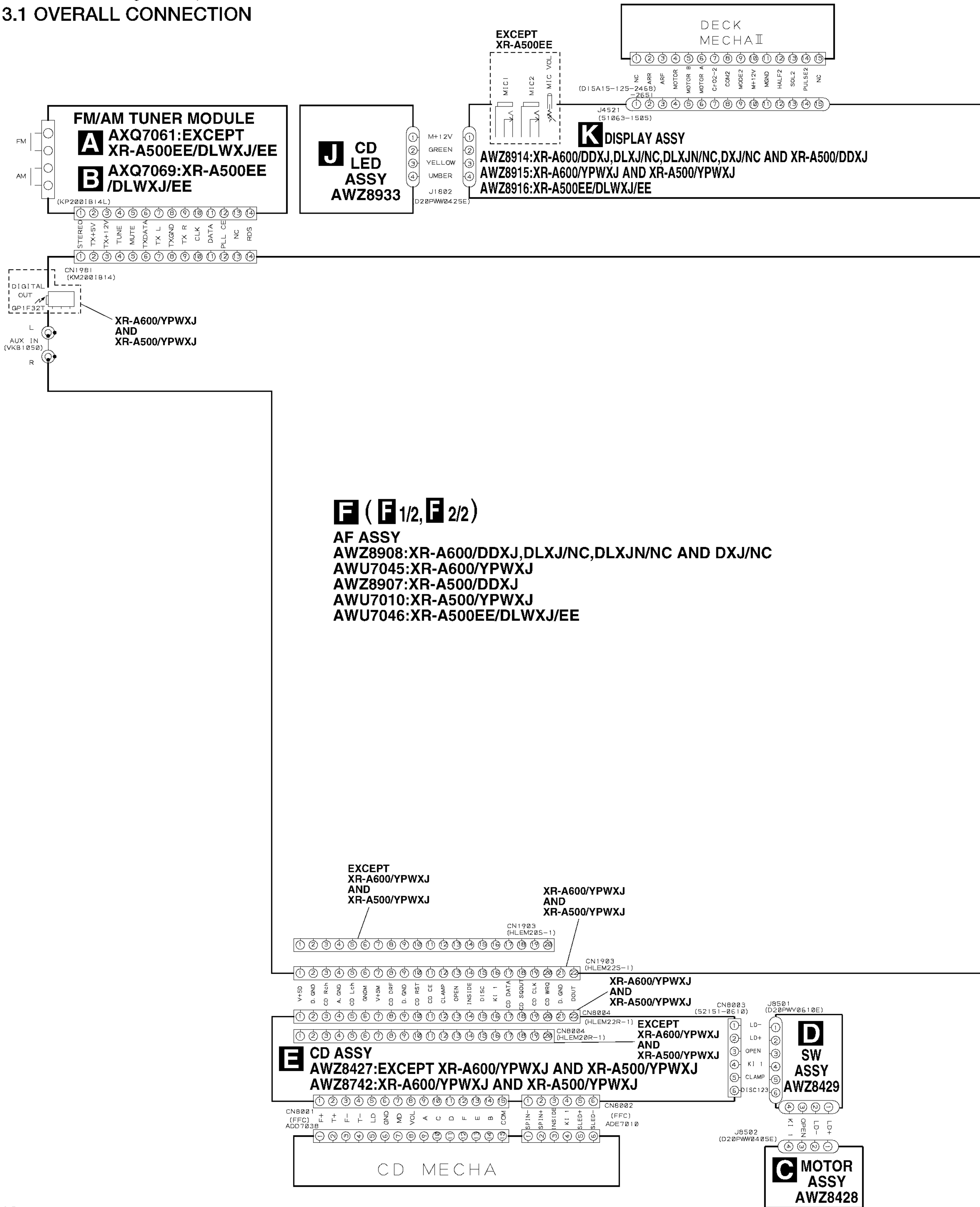
1 2 3 4

XR-A600,XR-A500,XR-A500EE

3. SCHEMATIC DIAGRAM

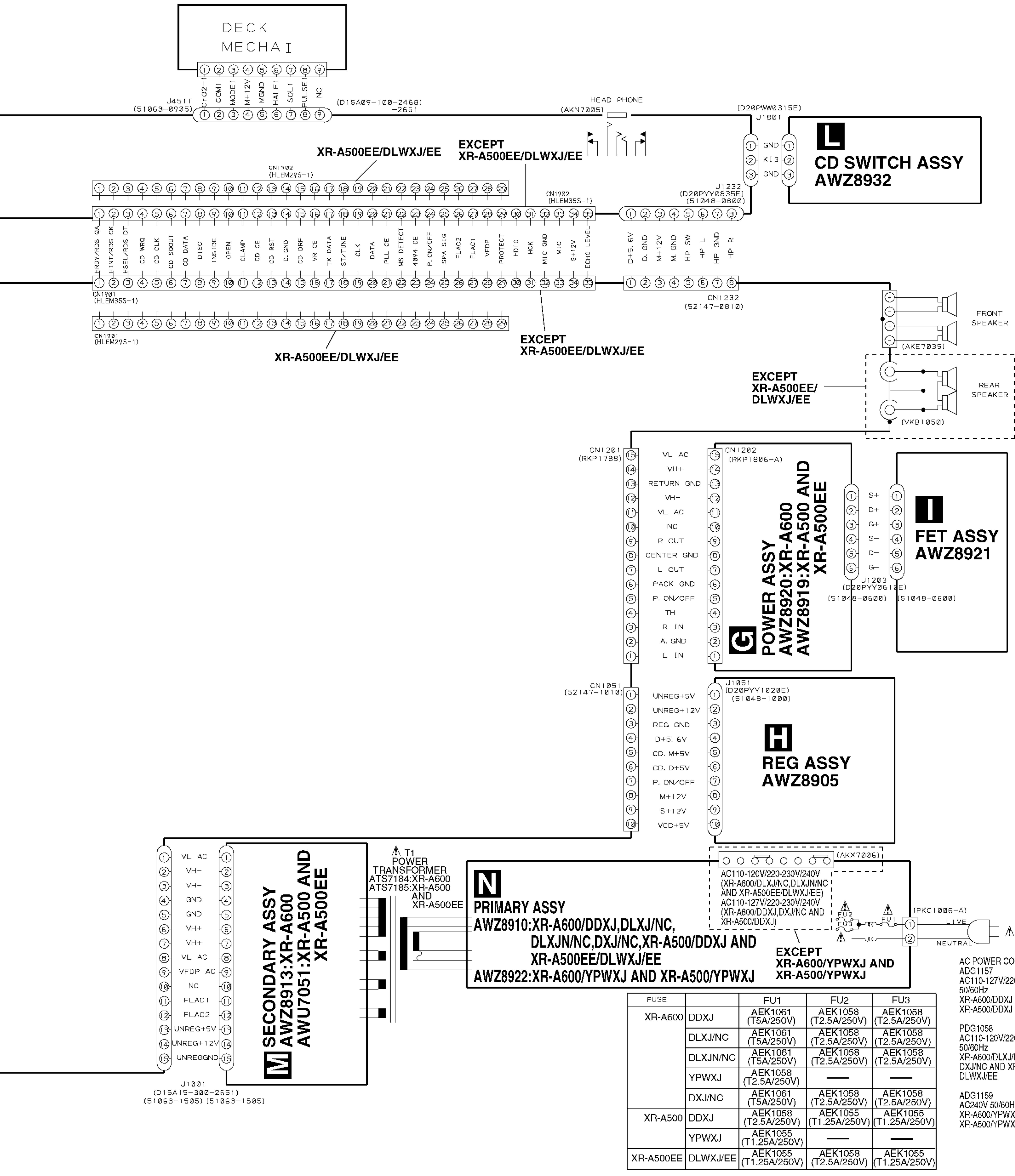
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

3.1 OVERALL CONNECTION



5 6 7 8

XR-A600,XR-A500,XR-A500EE



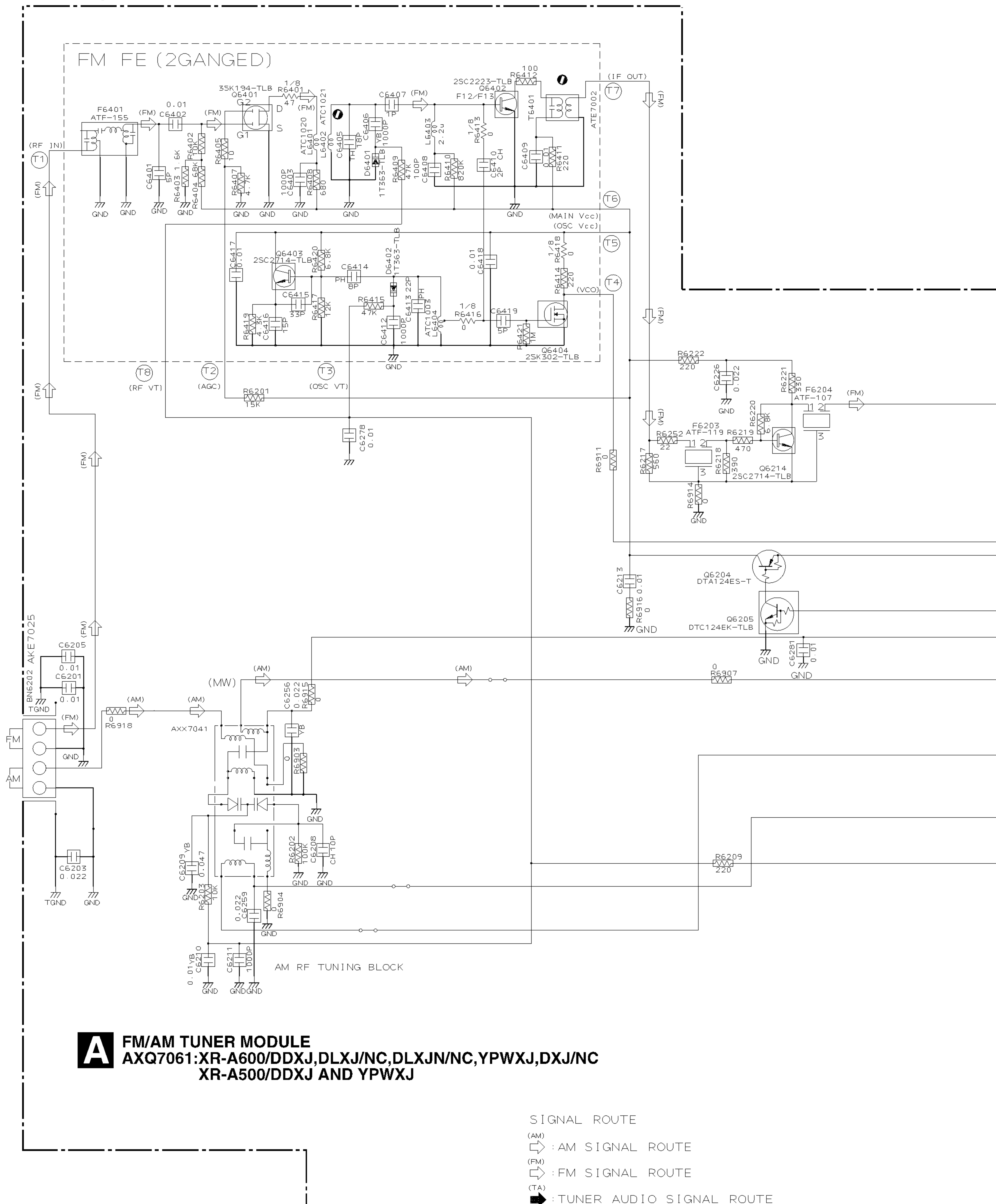
A

B

C

D

3.2 FM/AM TUNER MODULE (DDXJ, DLXJ/NC, DLXJN/NC, DXJ/NC AND YPWXJ TYPES)



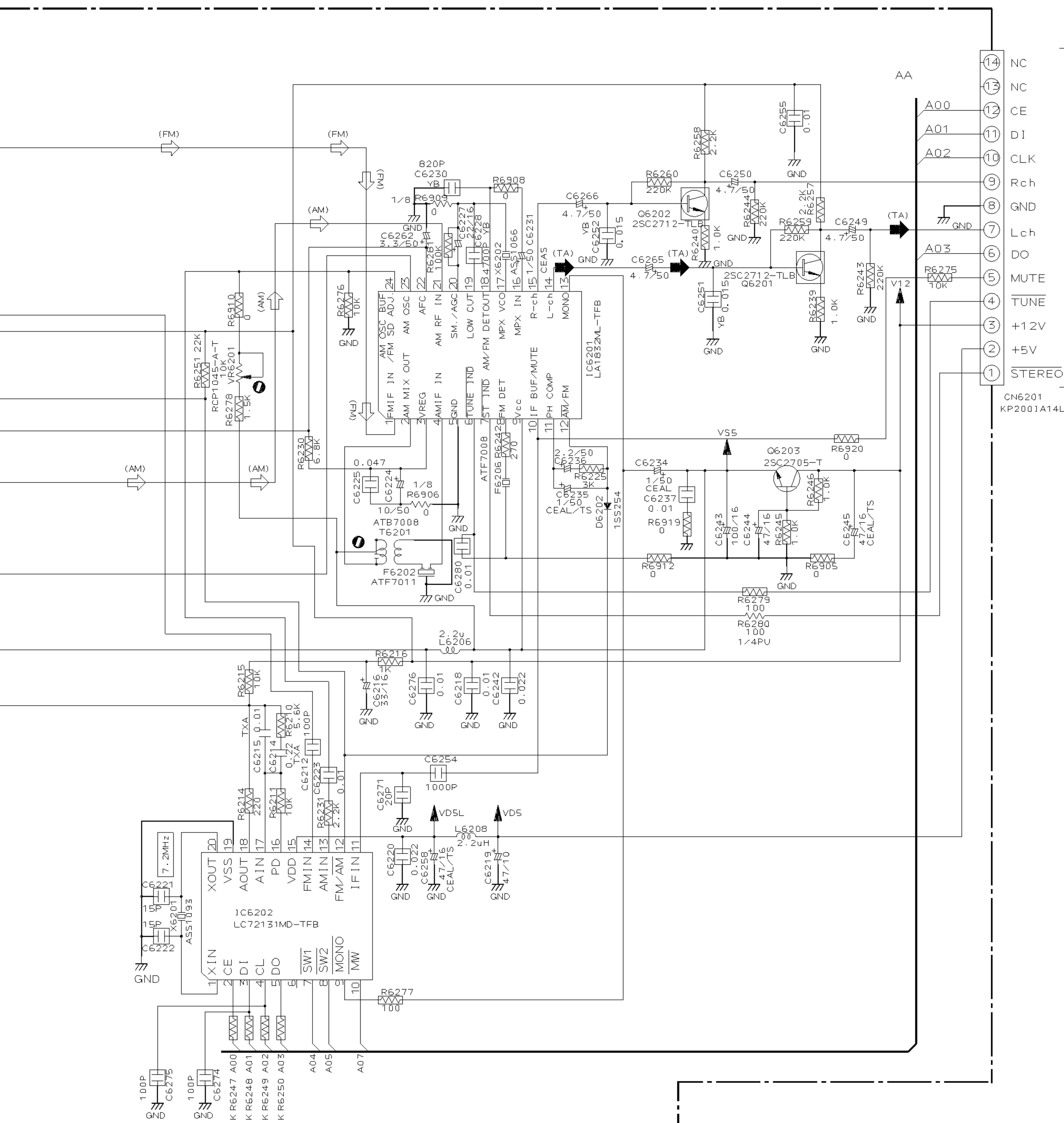
B

C

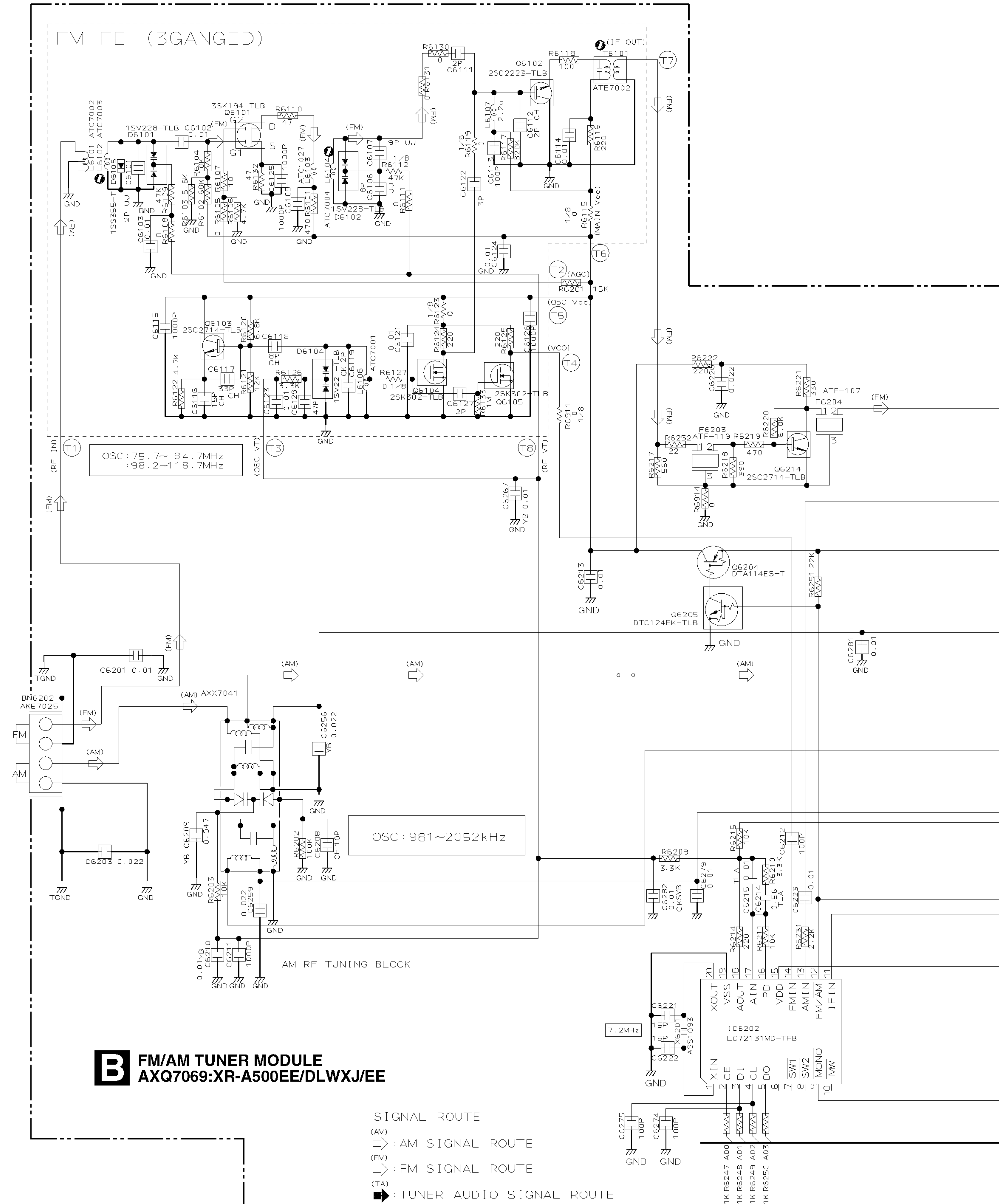
D

A

19

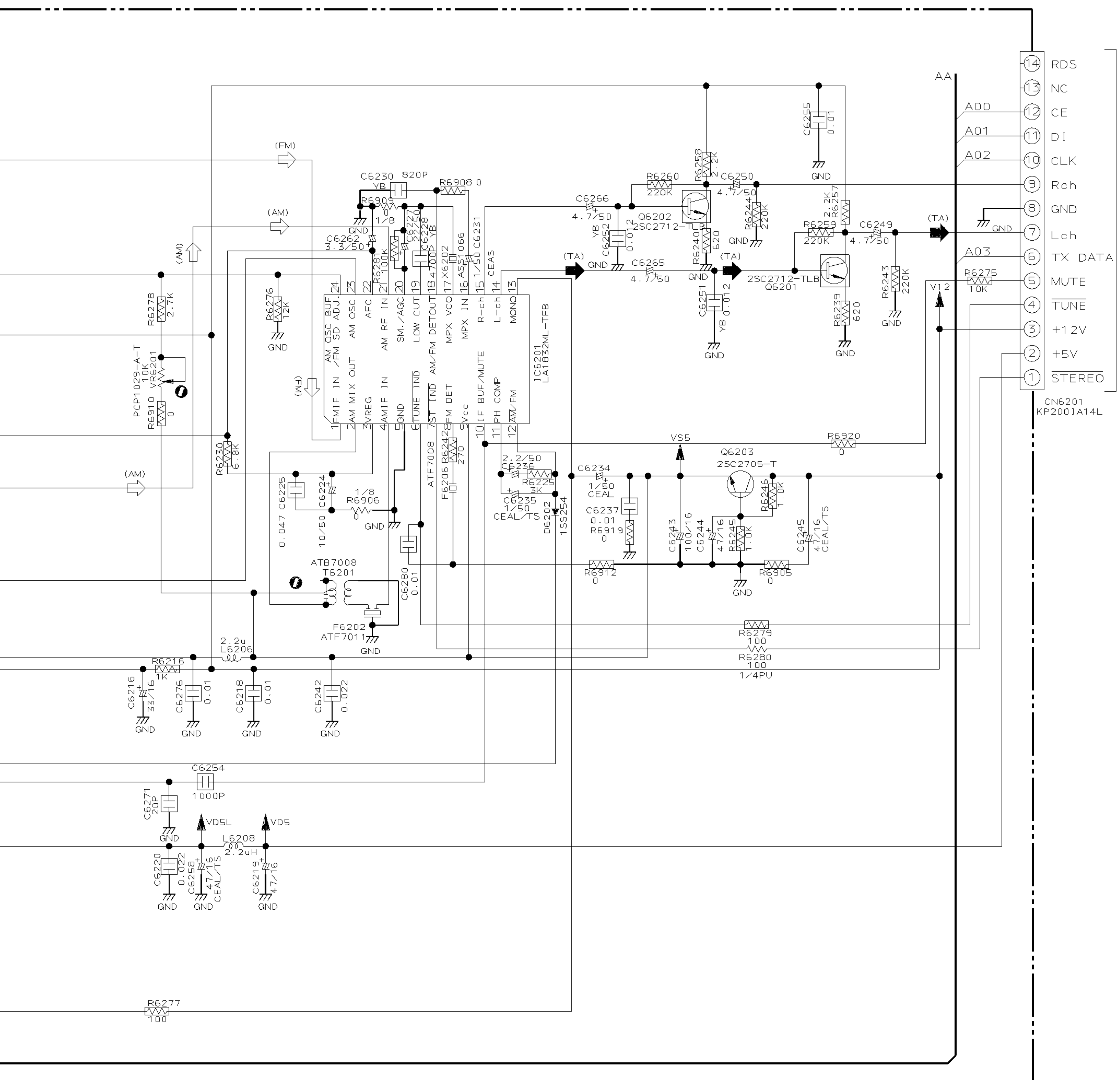


3.3 FM/AM TUNER MODULE (DLWXJ/EE TYPE)



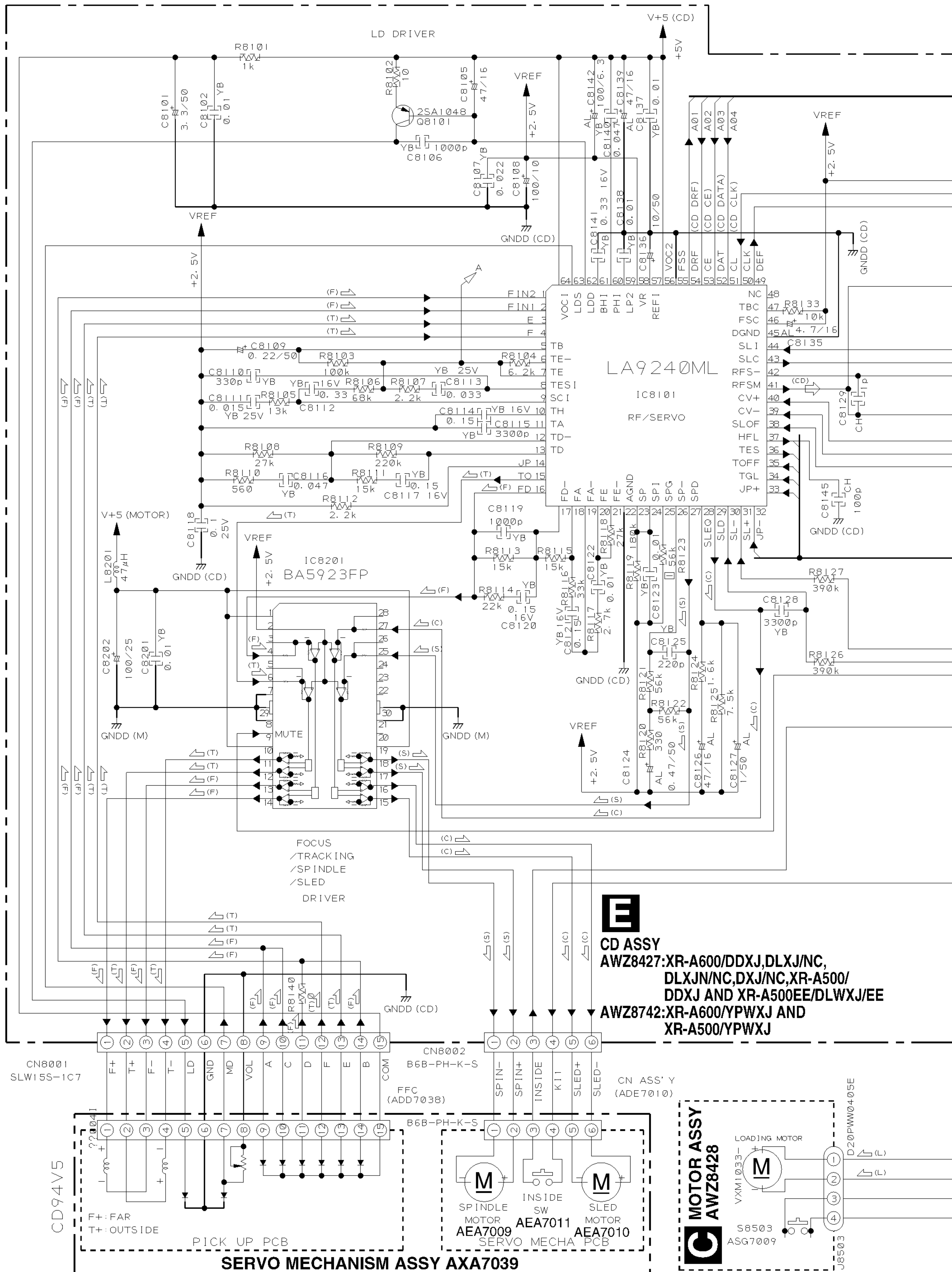
Notes

- 1.RESISTORS
Indicated in Ω , 1/10W $\pm$ 5% Tolerance unless
otherwise noted K;K Ω , M;M Ω .
- 2.CAPACITORS
Indicated in Capacity (μ F)/VOLTAGE (V) unless
otherwise noted P;PF.
- 3.DIODES
No mark diode is 1SS254.



F2/2 CN1981

3.4 MOTOR ASSY, SW ASSY AND CD ASSY



XR-A600,XR-A500,XR-A500EE



3.5 AF ASSY(1/2)

F 1/2 AF ASSY
AW70000

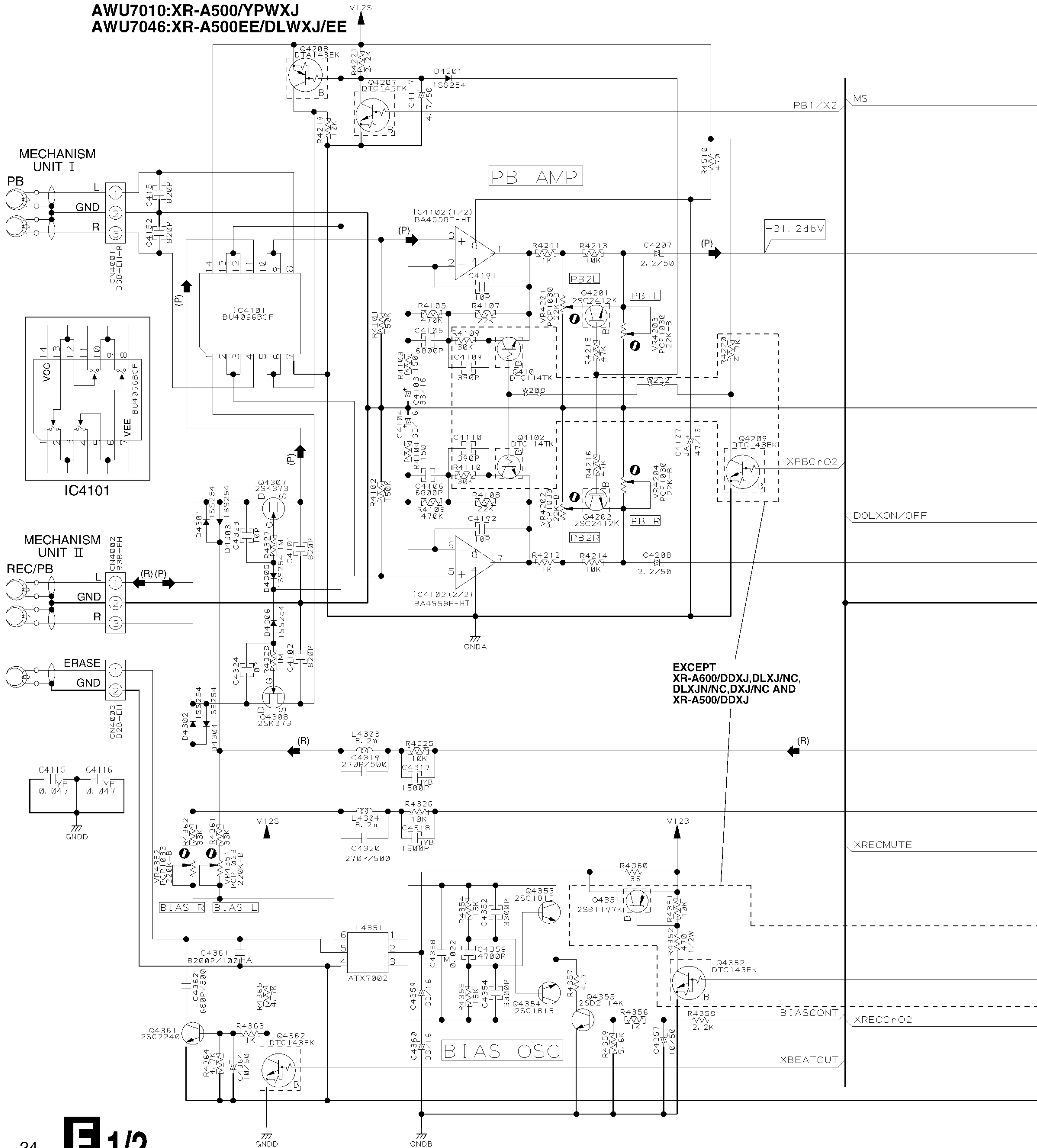
AWZ8908:XR-A600/DDXJ,DLXJ/NC,DLXJN/NC AND DXJ/NC

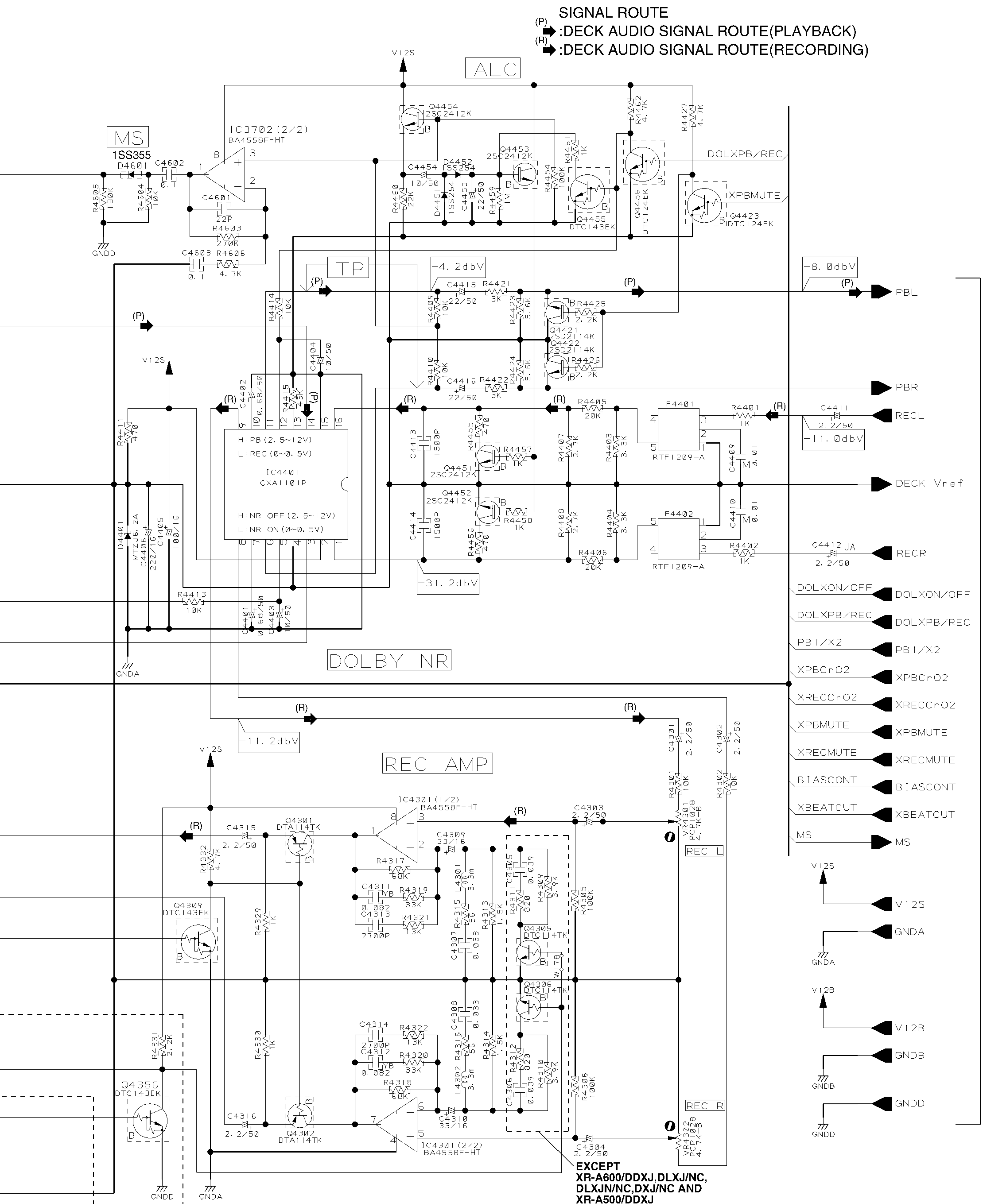
AWU7045:XR-A600/YPWXJ

AWZ8907:XR-A500/DDXJ

AWU7010:XR-A500/YPWXJ

AWU7046:XR-A500EE/DLWXJ/EE





F 2/2

F 1/2

1 2 3 4

XR-A600,XR-A500,XR-A500EE

3.6 AF ASSY(2/2)

A

B

C

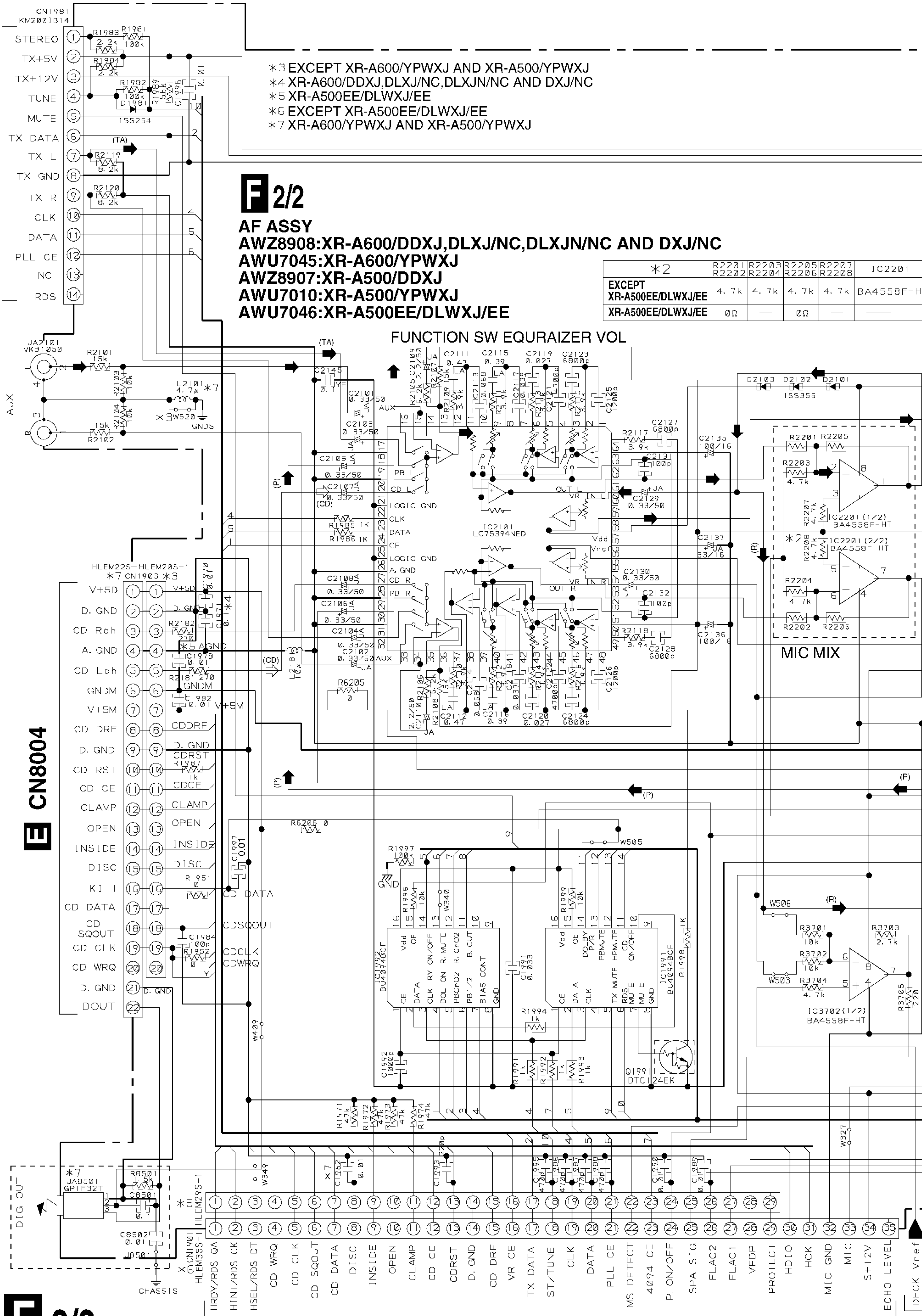
D

A B CN6201

F 2/2

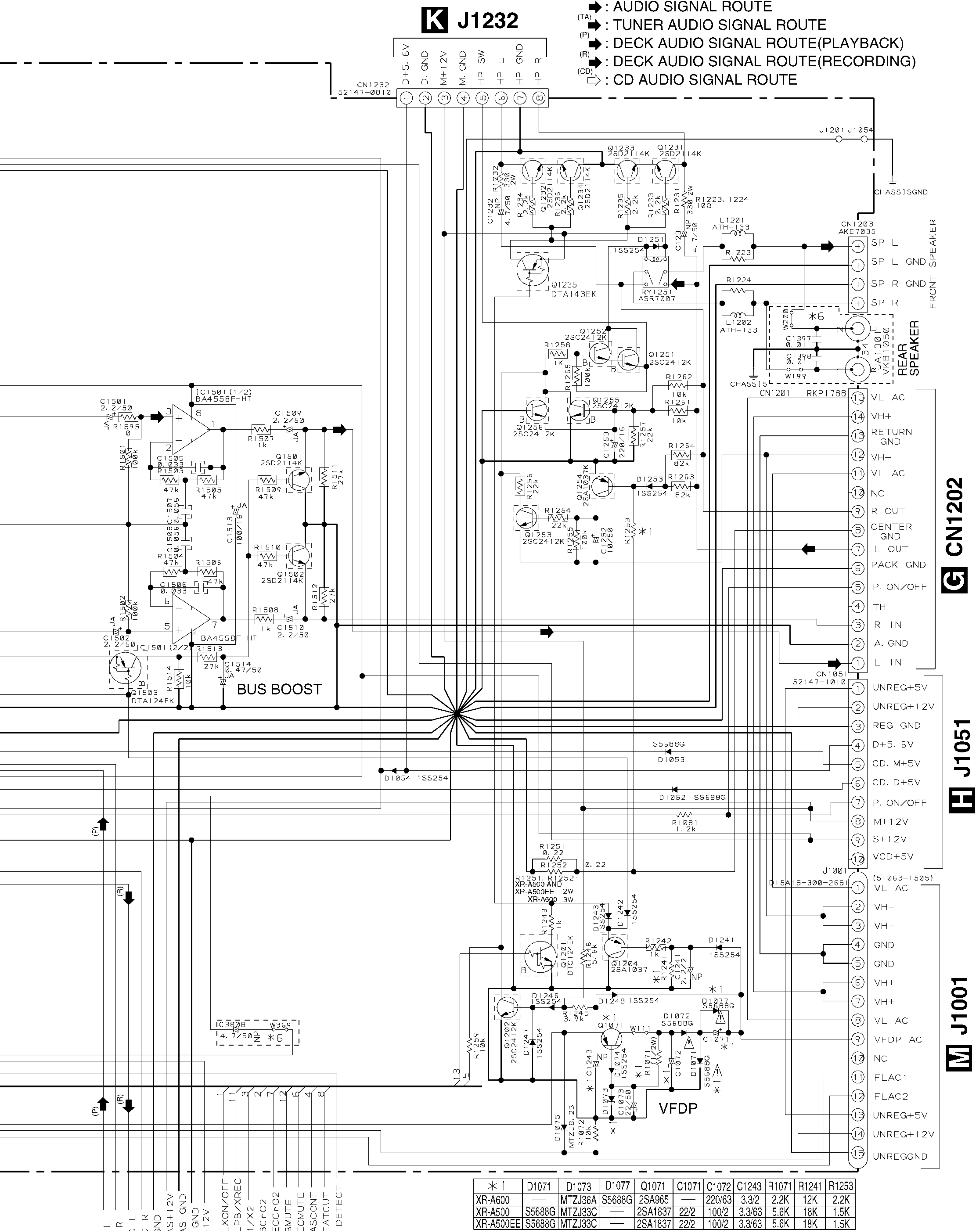
AF ASSY
AWZ8908:XR-A600/DDXJ,DLXJ/NC,DLXJN/NC AND DXJ/NC
AWU7045:XR-A600/YPWXJ
AWZ8907:XR-A500/DDXJ
AWU7010:XR-A500/YPWXJ
AWU7046:XR-A500EE/DLWXJ/EE

*2	R2201 R2202	R2203 R2204	R2205 R2206	R2207 R2208	1C2201
EXCEPT XR-A500EE/DLWXJ/EE	4.7k	4.7k	4.7k	4.7k	BA4558F-HT
XR-A500EE/DLWXJ/EE	0Ω	—	0Ω	—	—



SIGNAL ROUTE

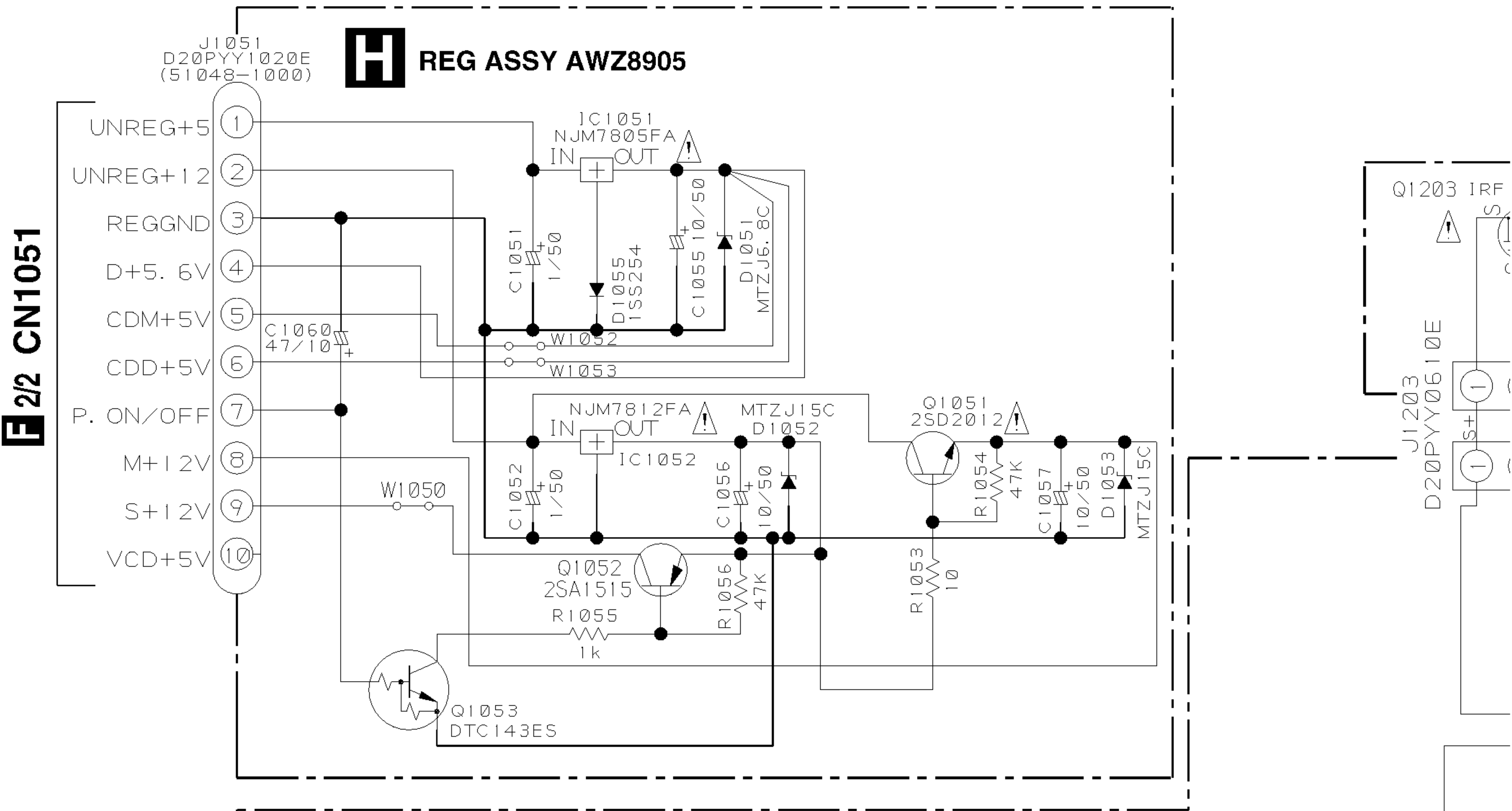
- ➡ : AUDIO SIGNAL ROUTE
- (TA) ➡ : TUNER AUDIO SIGNAL ROUTE
- (P) ➡ : DECK AUDIO SIGNAL ROUTE(PLAYBACK)
- (R) ➡ : DECK AUDIO SIGNAL ROUTE(RECORDING)
- (CD) ➡ : CD AUDIO SIGNAL ROUTE



* 1	D1071	D1073	D1077	Q1071	C1071	C1072	C1243	R1071	R1241	R1253
XR-A600	—	MTZJ36A	S5688G	2SA965	—	220/63	3.3/2	2.2K	12K	2.2K
XR-A500	S5688G	MTZJ33C	—	2SA1837	22/2	100/2	3.3/63	5.6K	18K	1.5K
XR-A500EE	S5688G	MTZJ33C	—	2SA1837	22/2	100/2	3.3/63	5.6K	18K	1.5K

3.7 POWER ASSY, REG ASSY AND FET ASSY

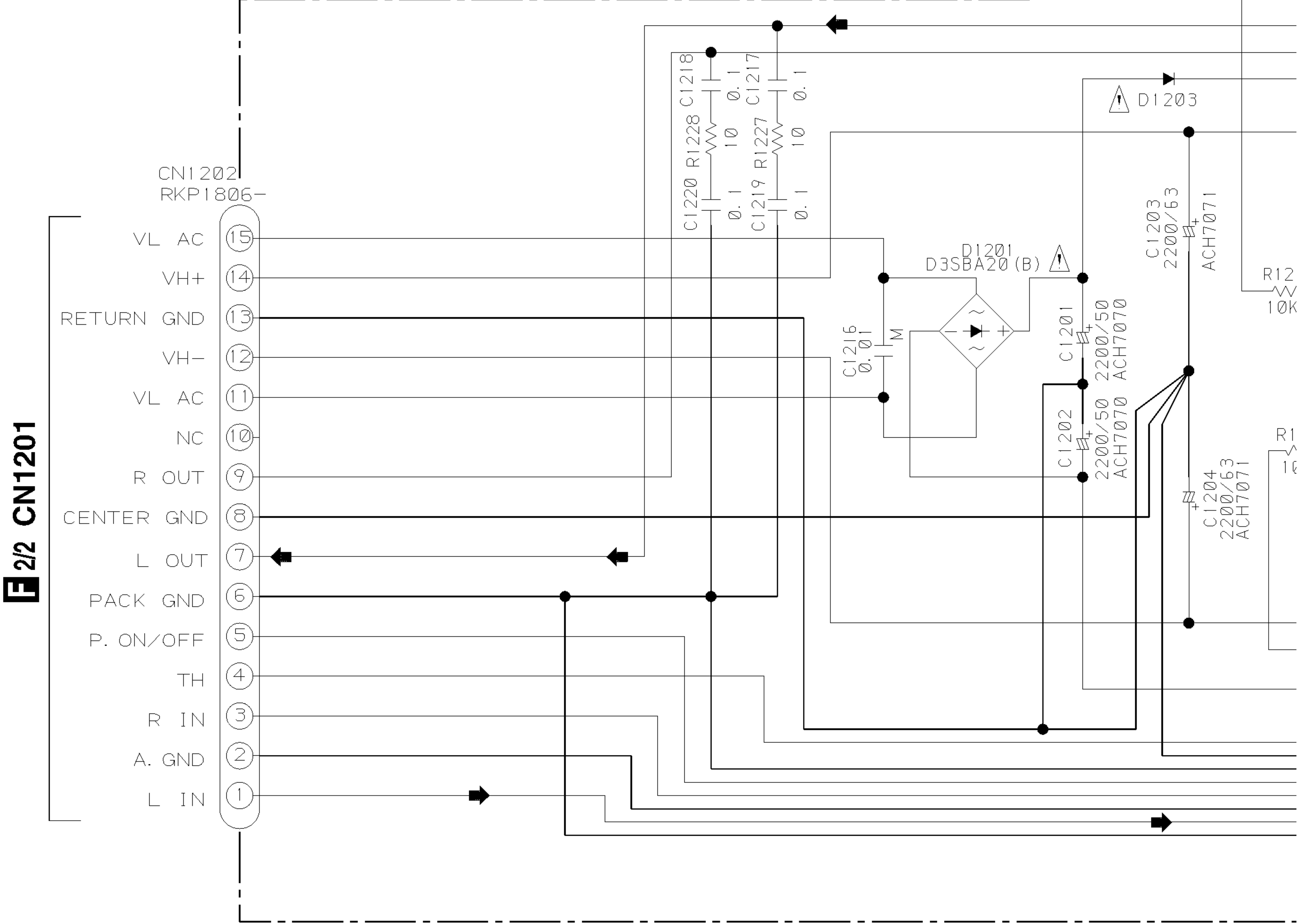
A

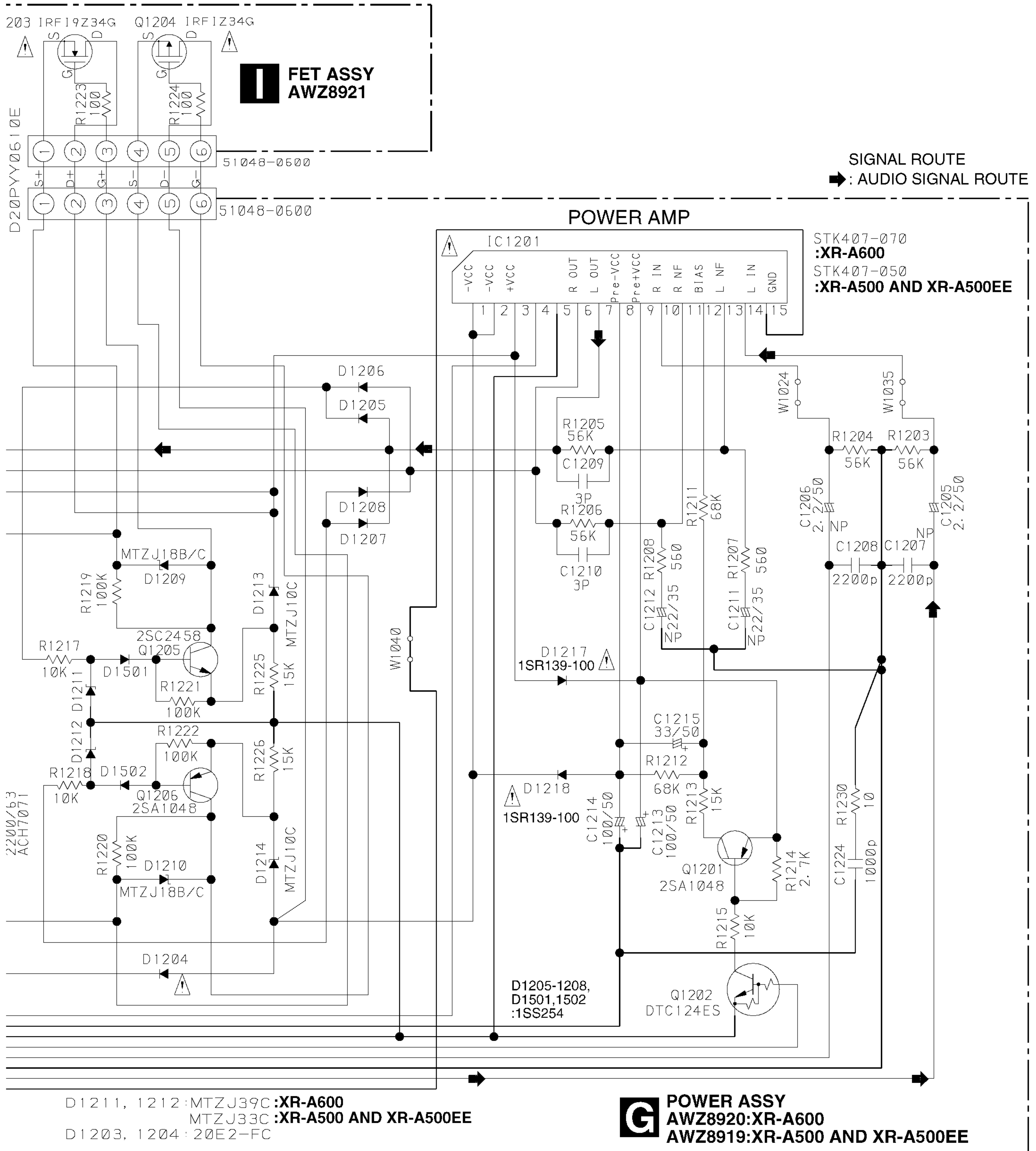


B

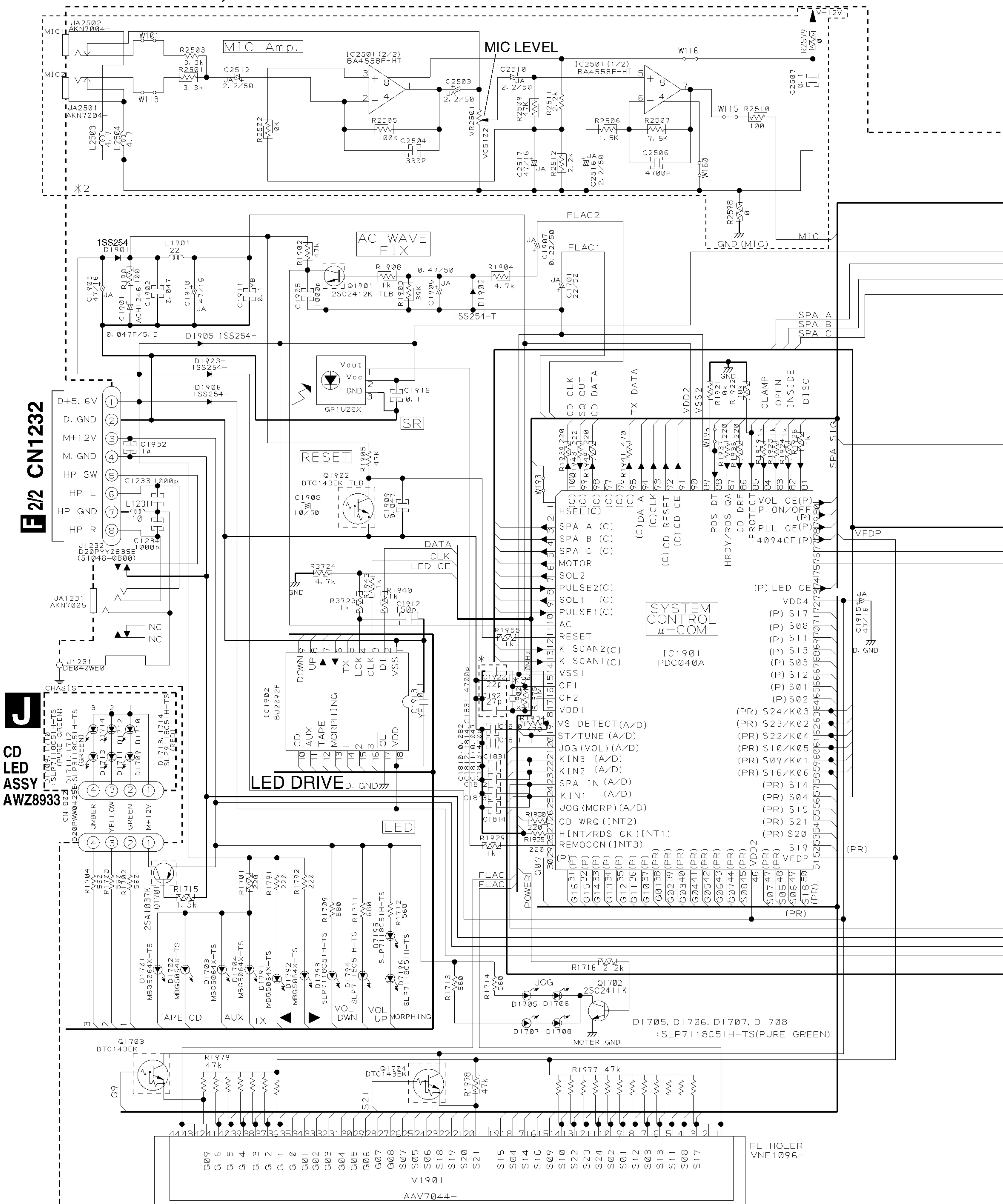
C

D





3.8 DISPLAY ASSY, CD SWITCH ASSY AND CD LED ASSY



*2 EXCEPT XR-A500EE/DLWXJ/EE

*2 EXCEPT XR-A500EE/DLWXJ/EE

*4 XR-A600/YPWXJ AND XR-A500/YPWXJ

***5 XR-A600/YPWXJ,XR-A500/YPWXJ AND
XR-A500EE/DLWXJ/EE**

3.9 PRIMARY ASSY AND SECONDARY ASSY

A

B

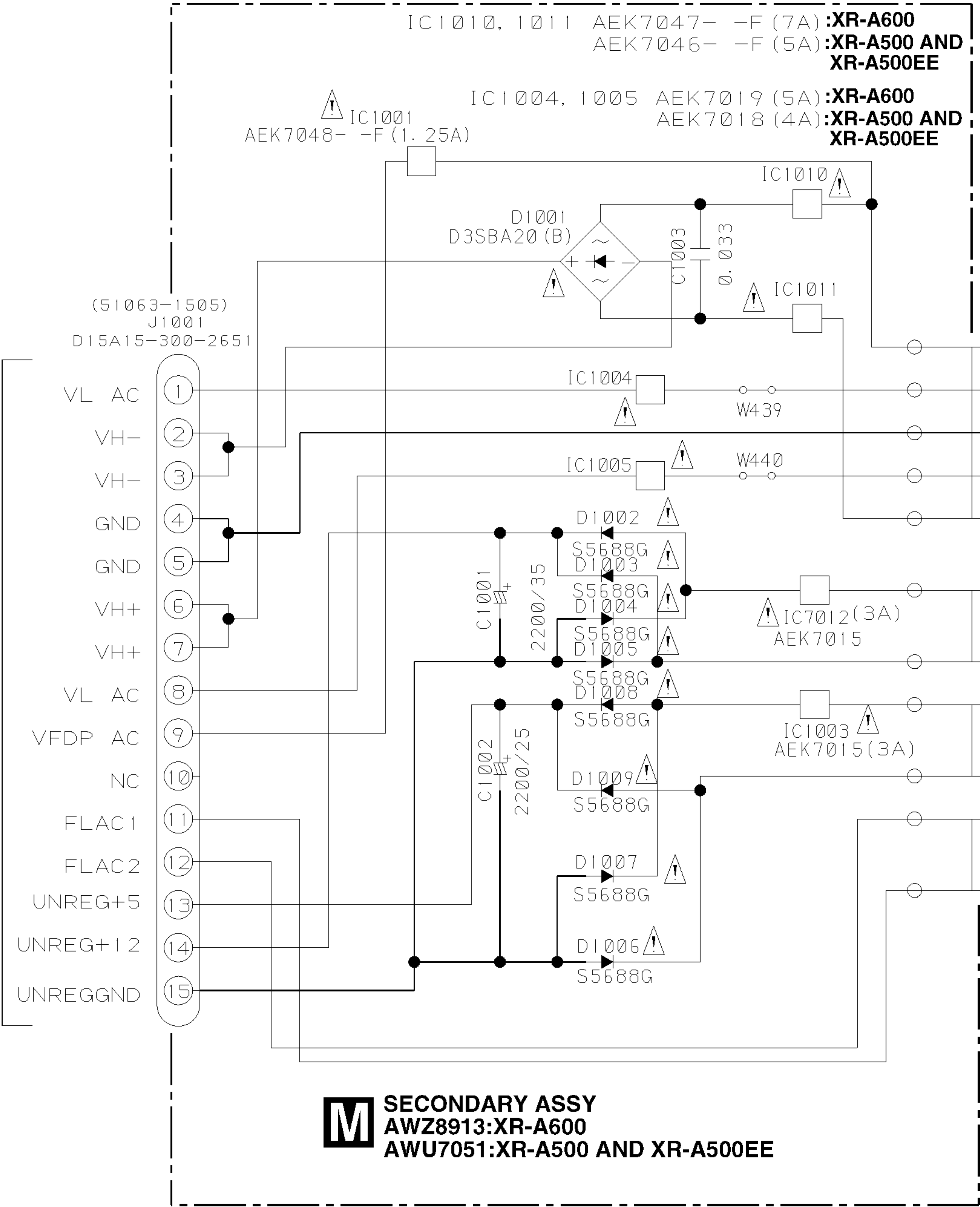
C

D

F 2/2 J1001

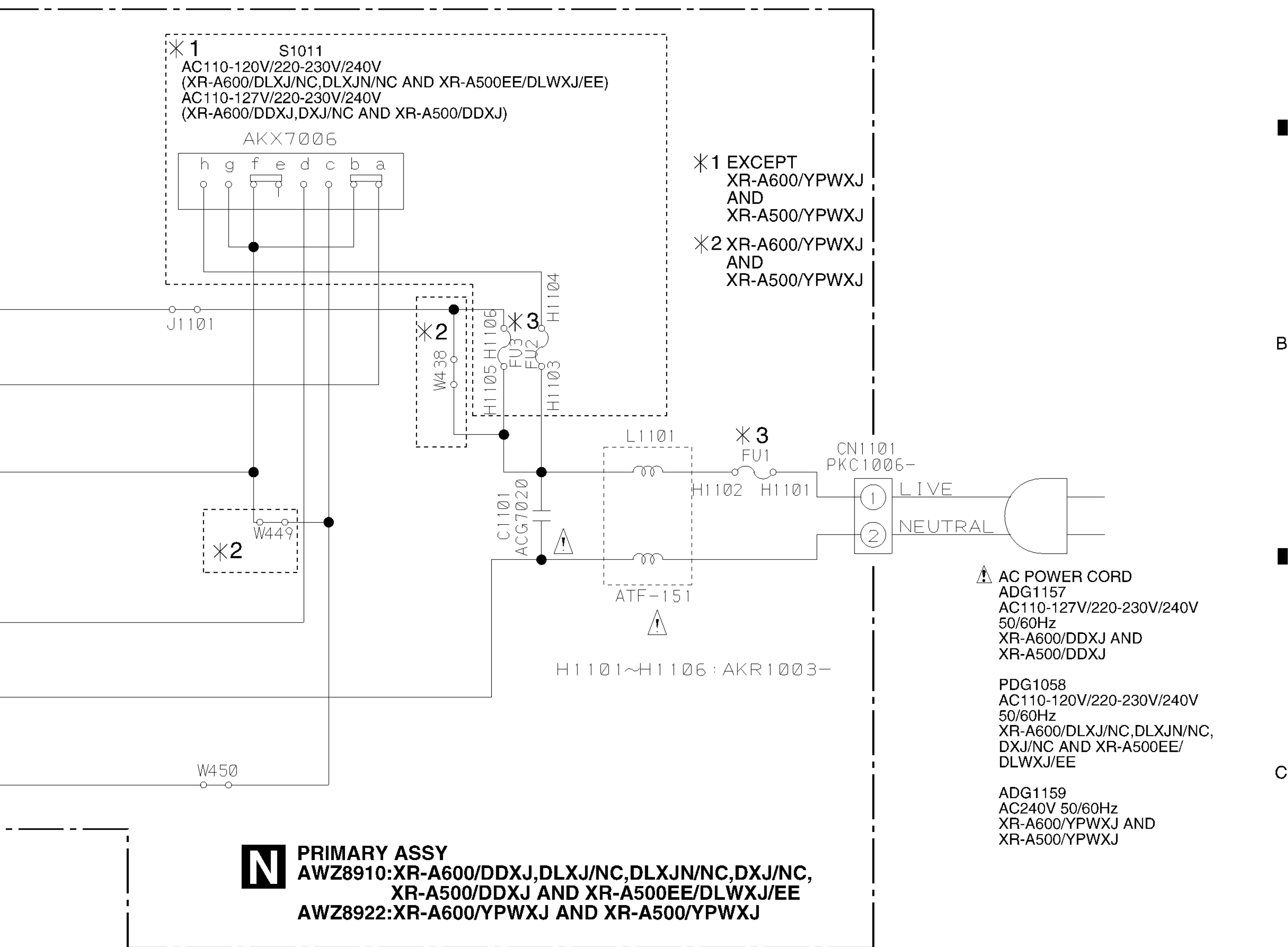
CAUTION:FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE
NO.4911.25F MFD BY LITTEL
FUSE INK.FOR IC1001.

CAUTION:FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE
NO.491007F or 491005F
MFD BY LITTEL FUSE INK.
FOR IC1010 and IC1011.



CAUTION:FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE
NO.491005 or 491004
MFD BY LITTEL FUSE INK.
FOR IC1004 and IC1005.

CAUTION:FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE
NO.491003 MFD BY LITTEL
FUSE INK.FOR IC1003 and
IC7012.



NOTE FOR FUSE REPLACEMENT

CAUTION — FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

※3

FUSE		FU1	FU2	FU3
XR-A600	DDXJ	AEK1061 (T5A/250V)	AEK1058 (T2.5A/250V)	AEK1058 (T2.5A/250V)
	DLXJ/NC	AEK1061 (T5A/250V)	AEK1058 (T2.5A/250V)	AEK1058 (T2.5A/250V)
	DLXJN/NC	AEK1061 (T5A/250V)	AEK1058 (T2.5A/250V)	AEK1058 (T2.5A/250V)
	YPWXJ	AEK1058 (T2.5A/250V)	—	—
	DXJ/NC	AEK1061 (T5A/250V)	AEK1058 (T2.5A/250V)	AEK1058 (T2.5A/250V)
XR-A500	DDXJ	AEK1058 (T2.5A/250V)	AEK1055 (T1.25A/250V)	AEK1055 (T1.25A/250V)
	YPWXJ	AEK1055 (T1.25A/250V)	—	—
XR-A500EE	DLWXJ/EE	AEK1055 (T1.25A/250V)	AEK1058 (T2.5A/250V)	AEK1055 (T1.25A/250V)

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.

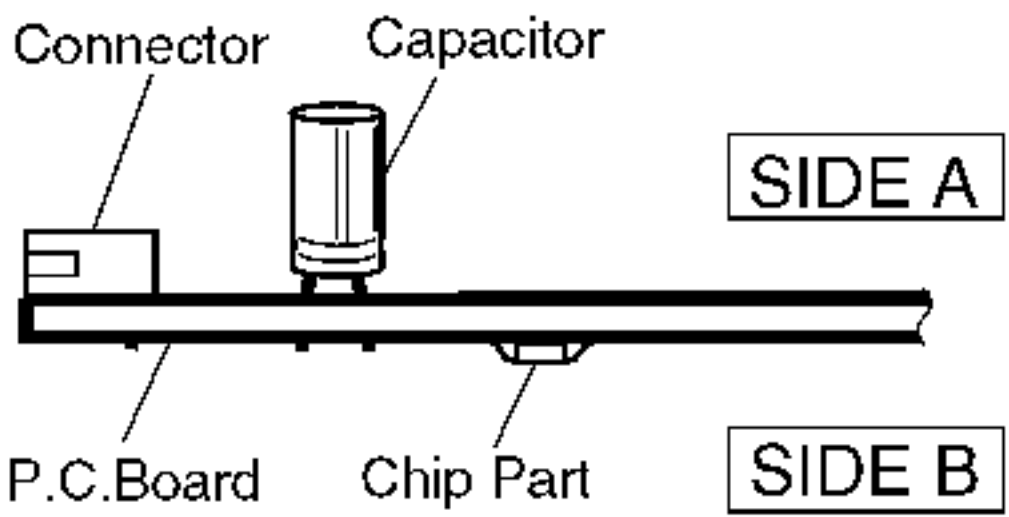
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Resistor array
		3-terminal regulator

3. 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.

4. Viewpoint of PCB diagrams

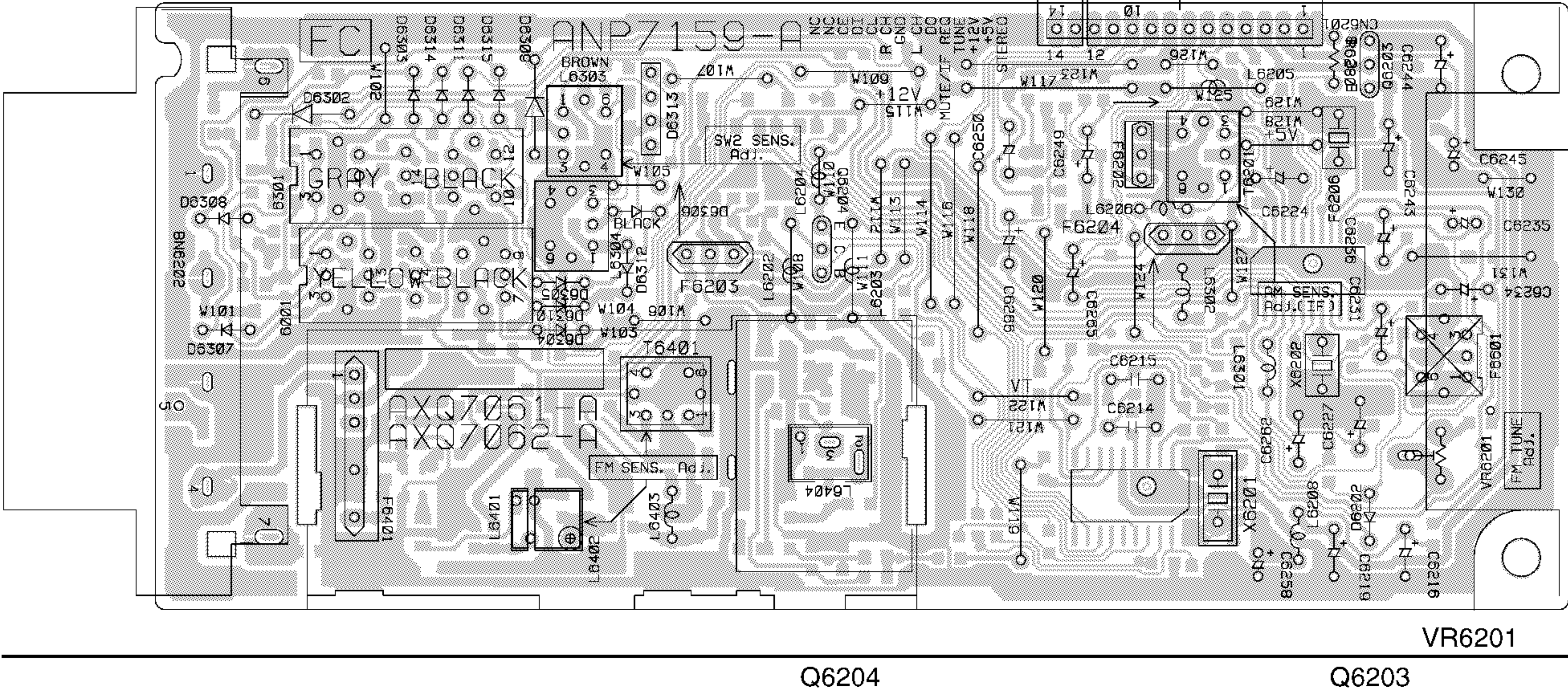


4.1 FM/AM TUNER MODULE (DDXJ,DLXJ/NC, DLXJN/NC, DXJ/NC AND YPWXJ TYPES)

FM/AM TUNER MODULE(AXQ7061)

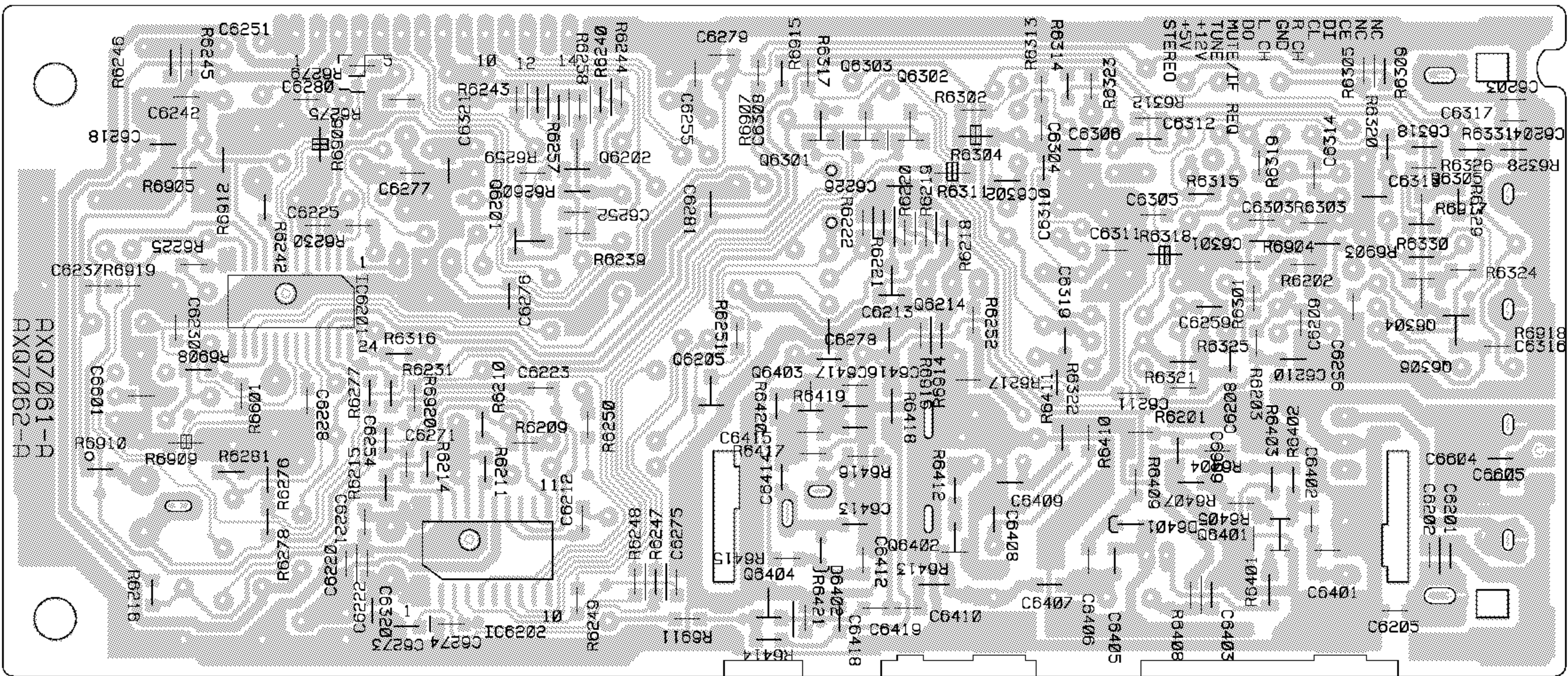
CN1981

SIDE A



FM/AM TUNER MODULE(AXQ7061)

SIDE B



IC6201

Q6202

Q6205

Q6303

Q6401

Q6305

Q6201

Q6301

Q6302

Q6304

IC6202

Q6403

Q6402

Q6306

Q6404

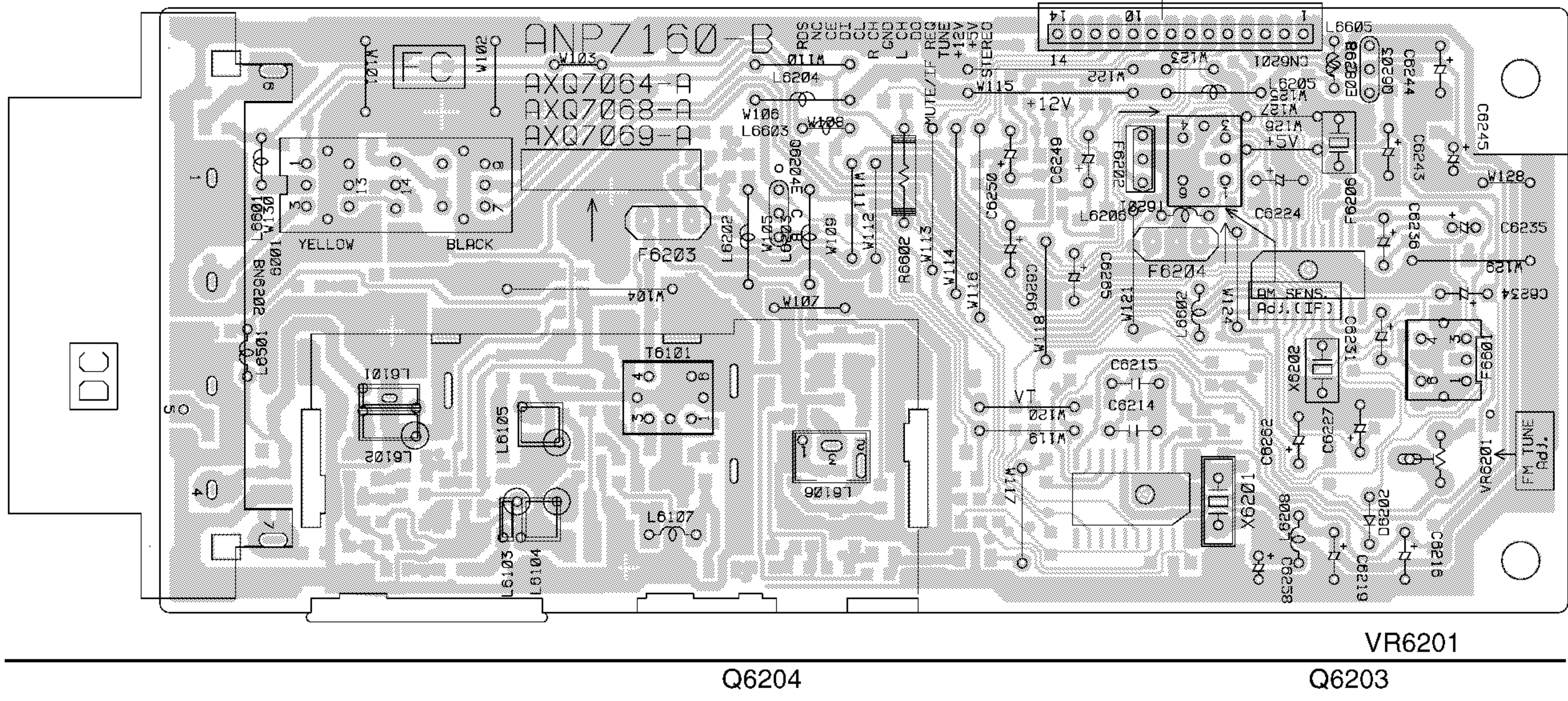
ANP7159-A

4.2 FM/AM TUNER MODULE (DLWXJ/EE TYPE)

B FM/AM TUNER MODULE(AXQ7069)

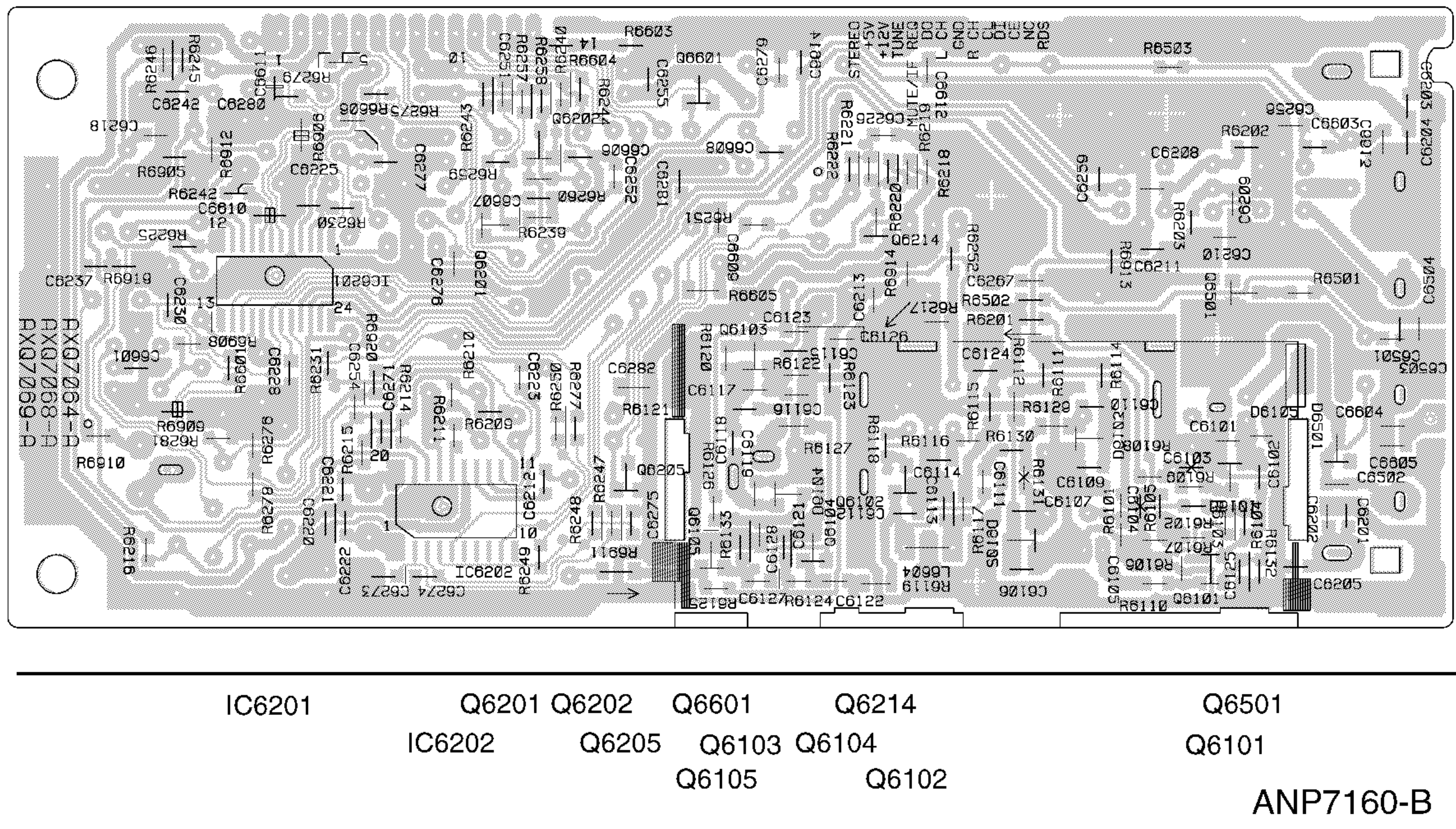
F CN1981

SIDE A



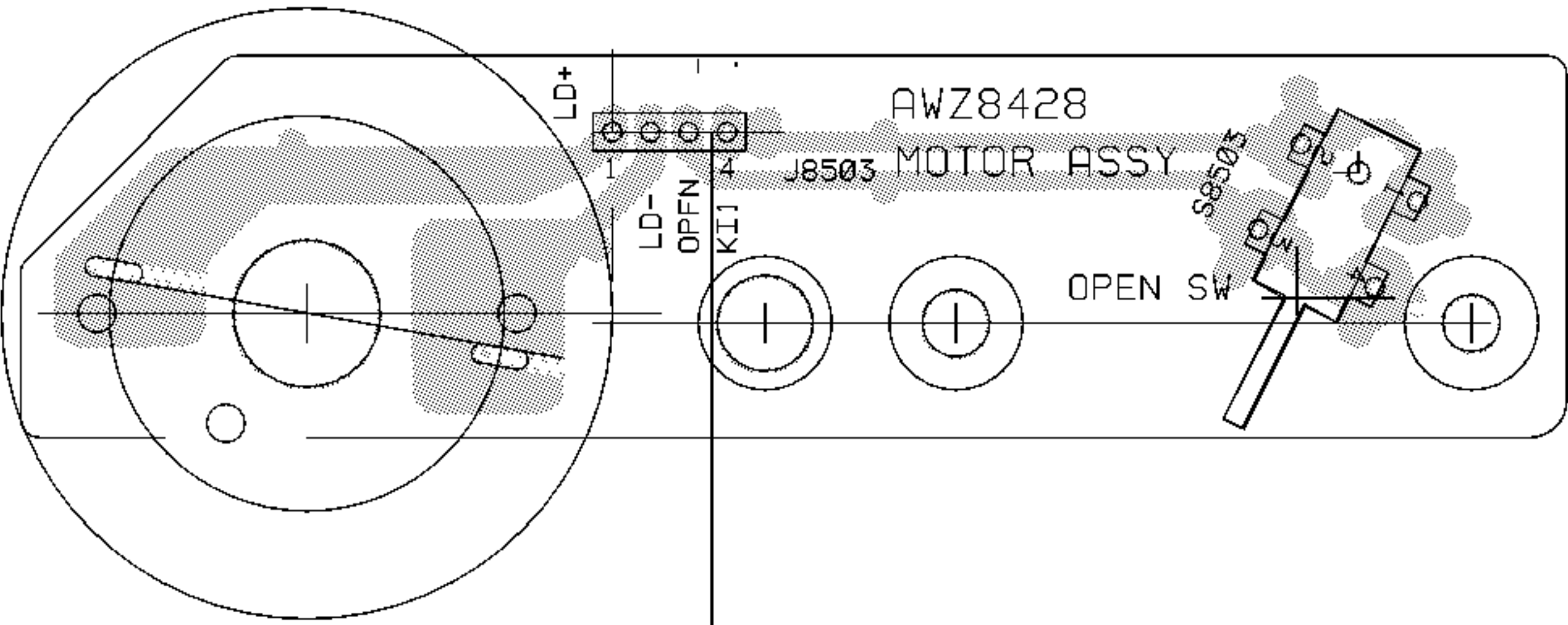
B FM/AM TUNER MODULE(AXQ7069)

SIDE B



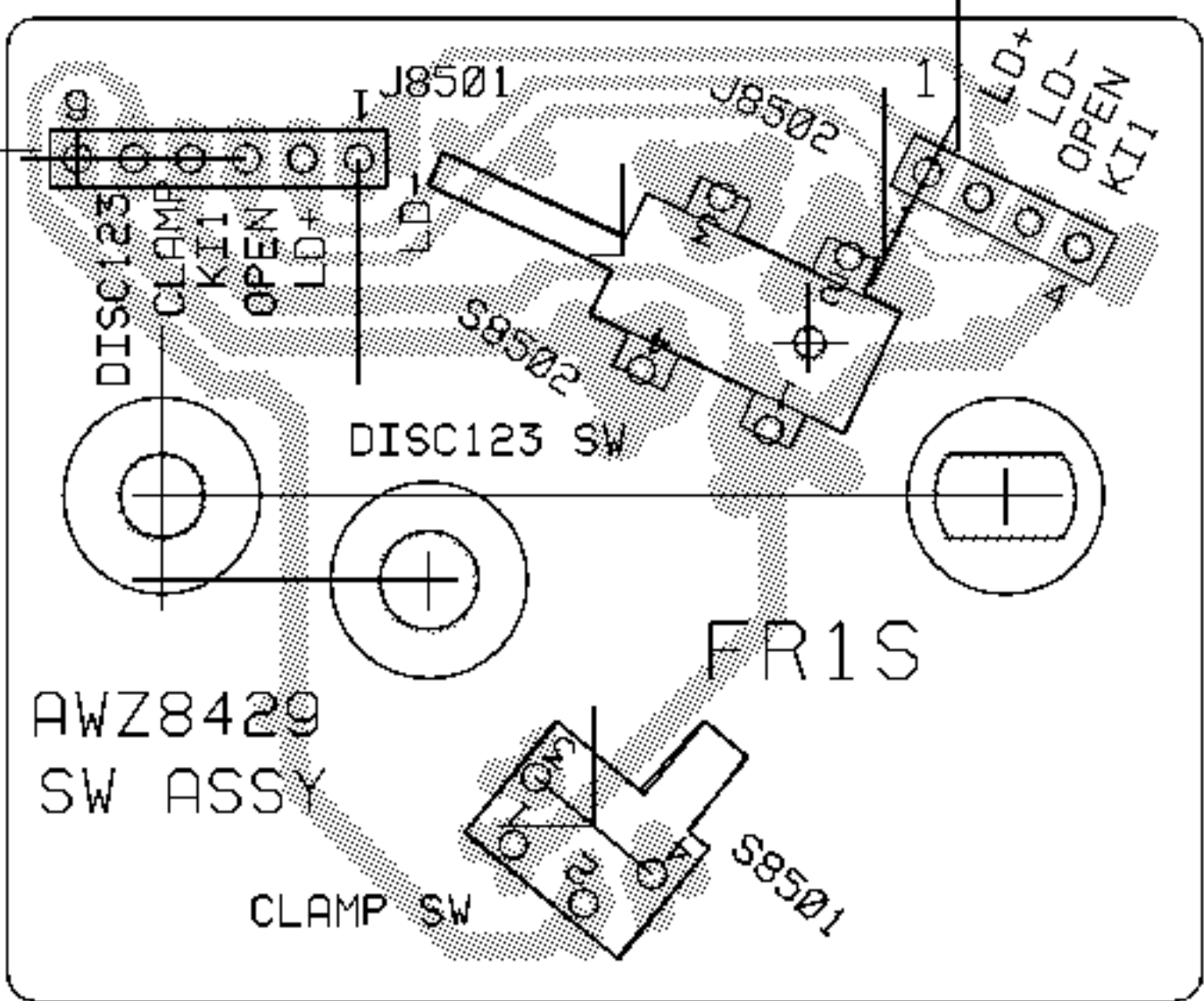
4.3 MOTOR ASSY, SW ASSY AND CD ASSY

C MOTOR ASSY

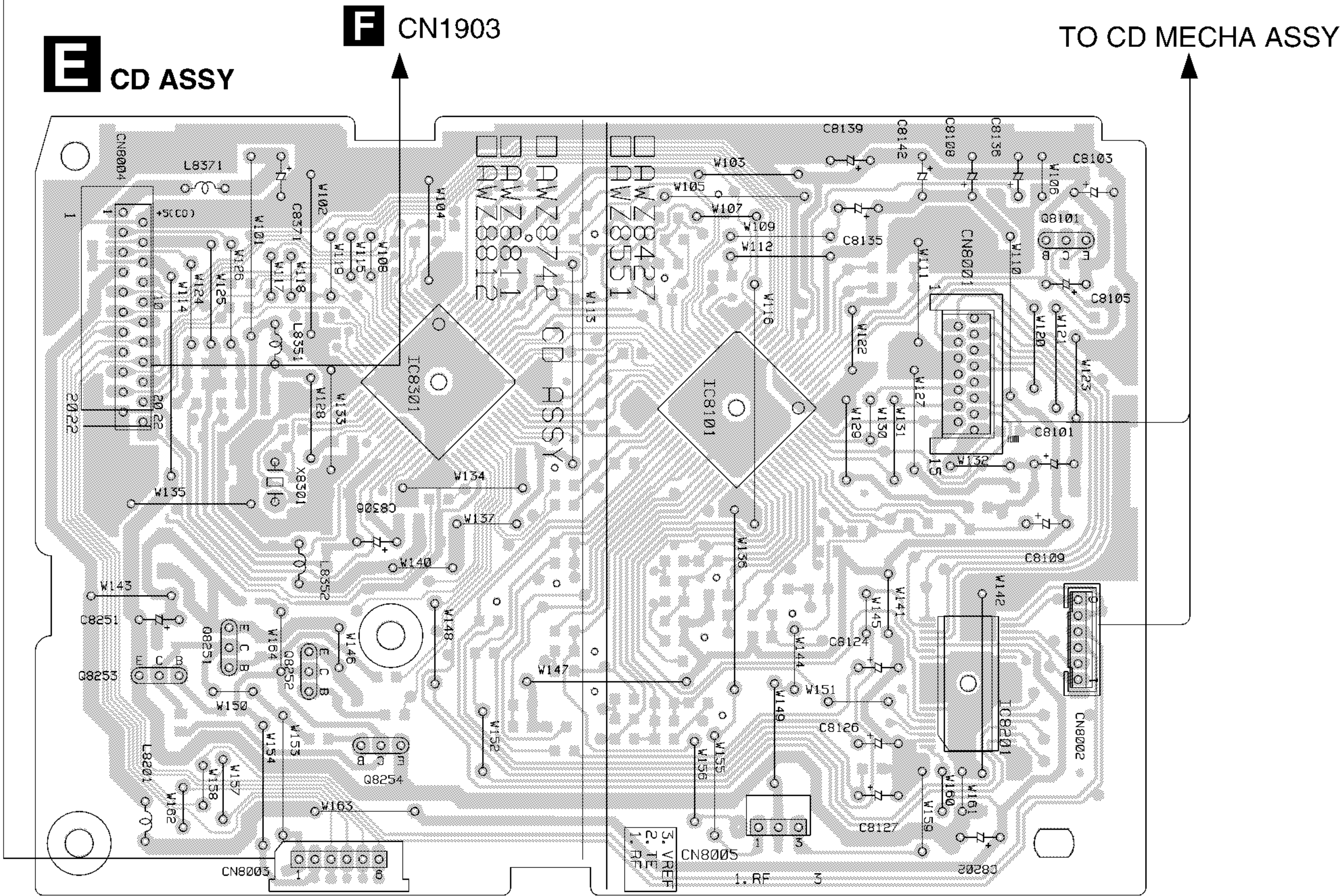


SIDE A

D SW ASSY

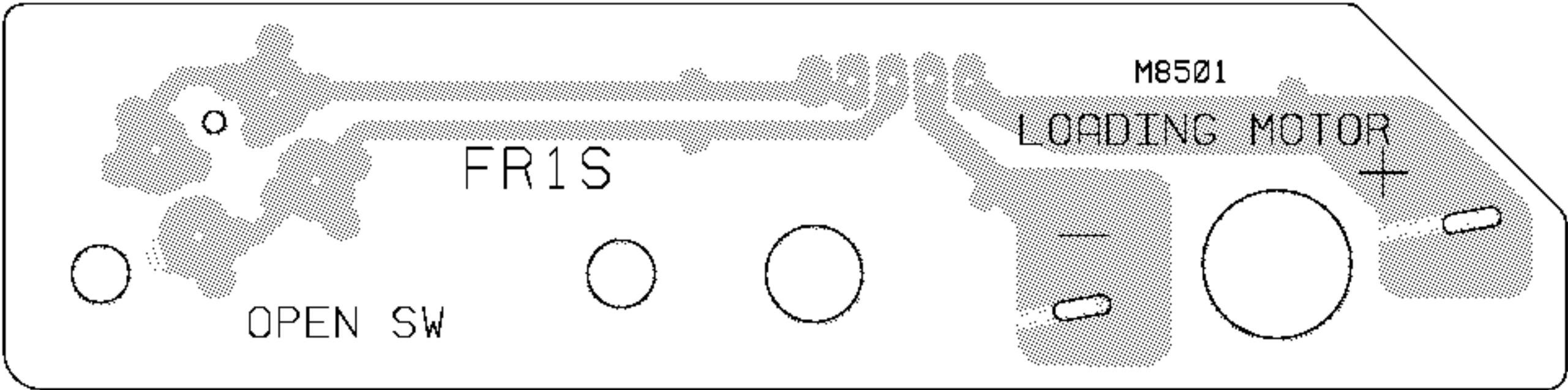


E CD ASSY



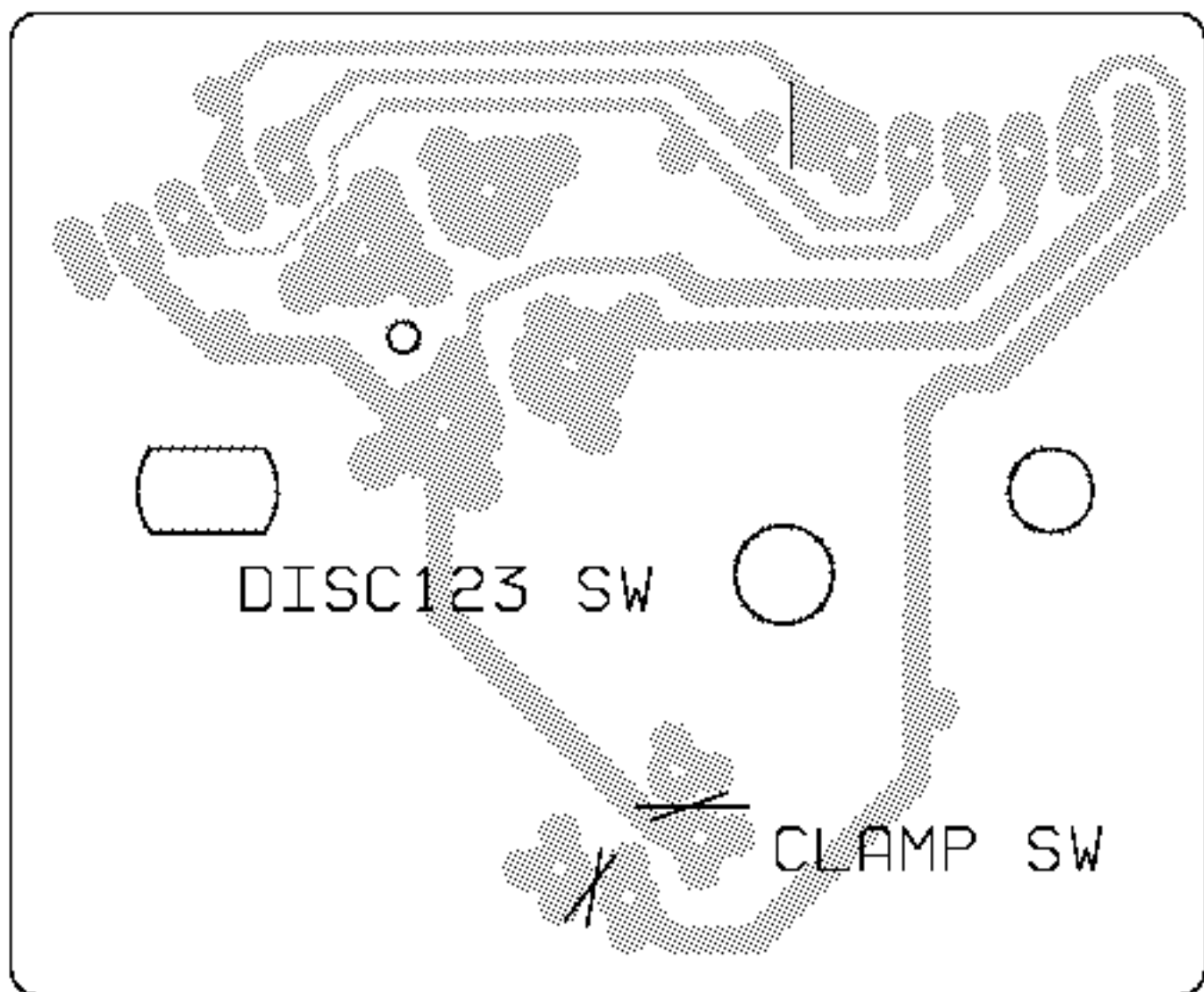
Q8253 Q8251 Q8252 IC8301 IC8101 IC8201 Q8101
Q8254 ANP7144-D

C MOTOR ASSY

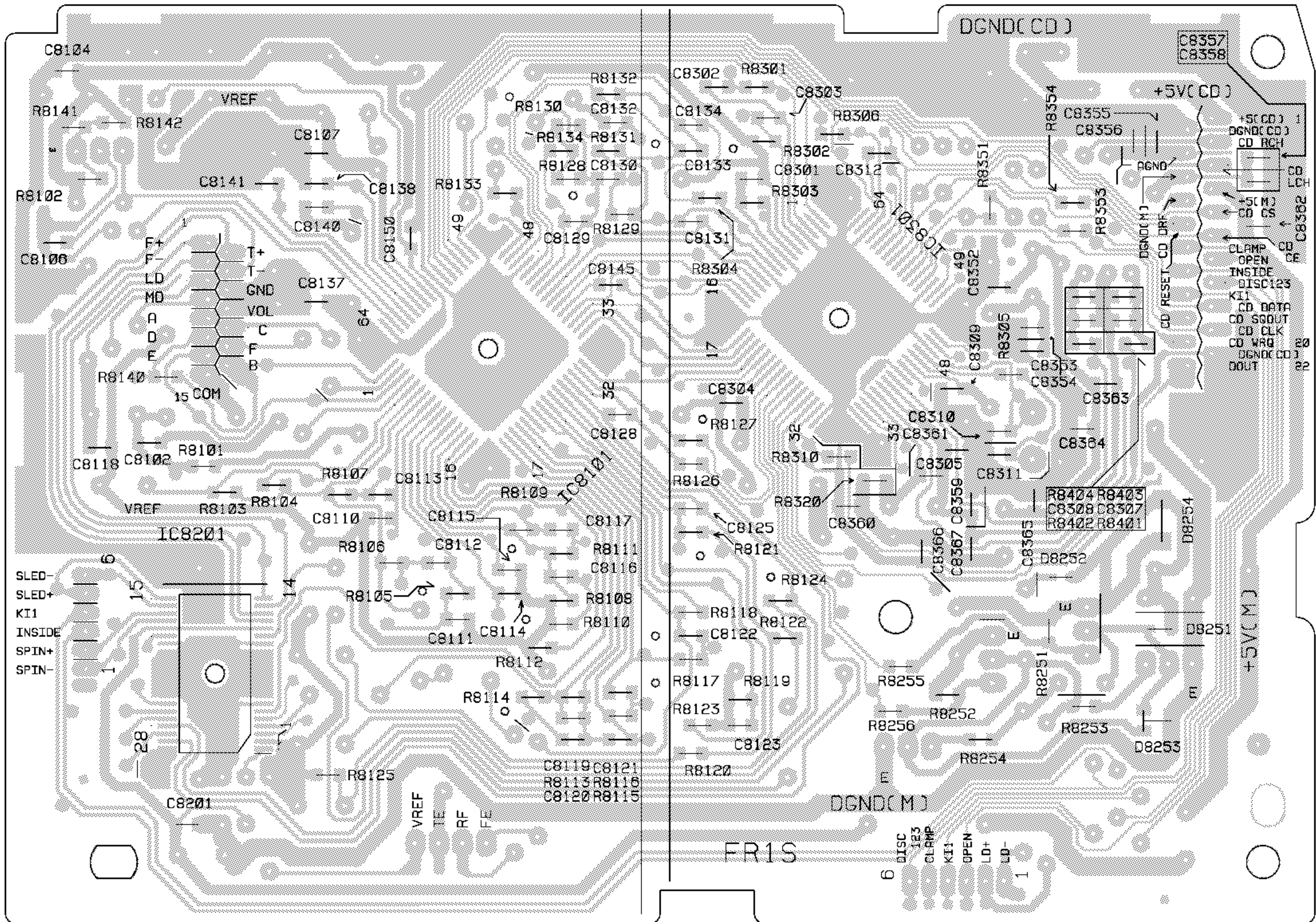


SIDE B

D SW ASSY



E CD ASSY



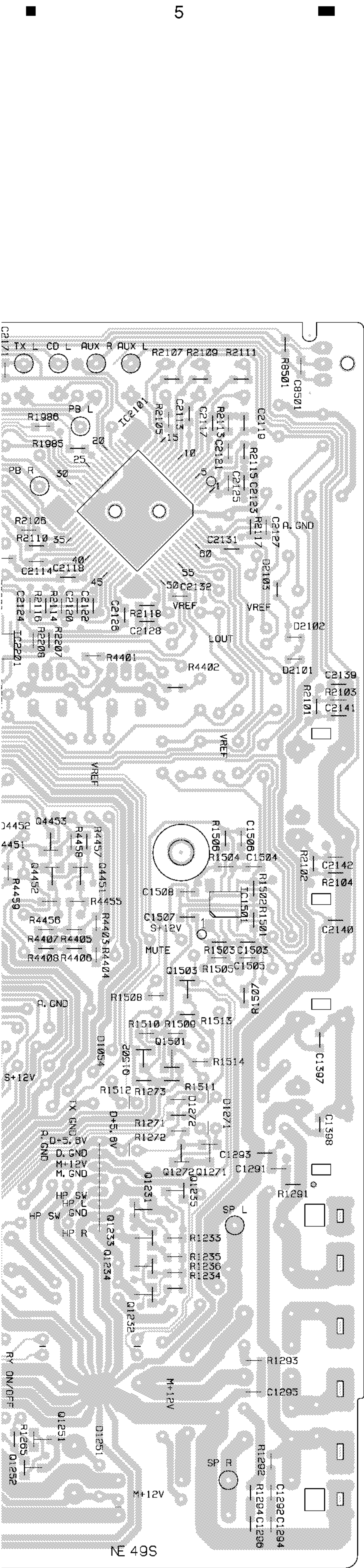
IC8201

IC8101

IC8301

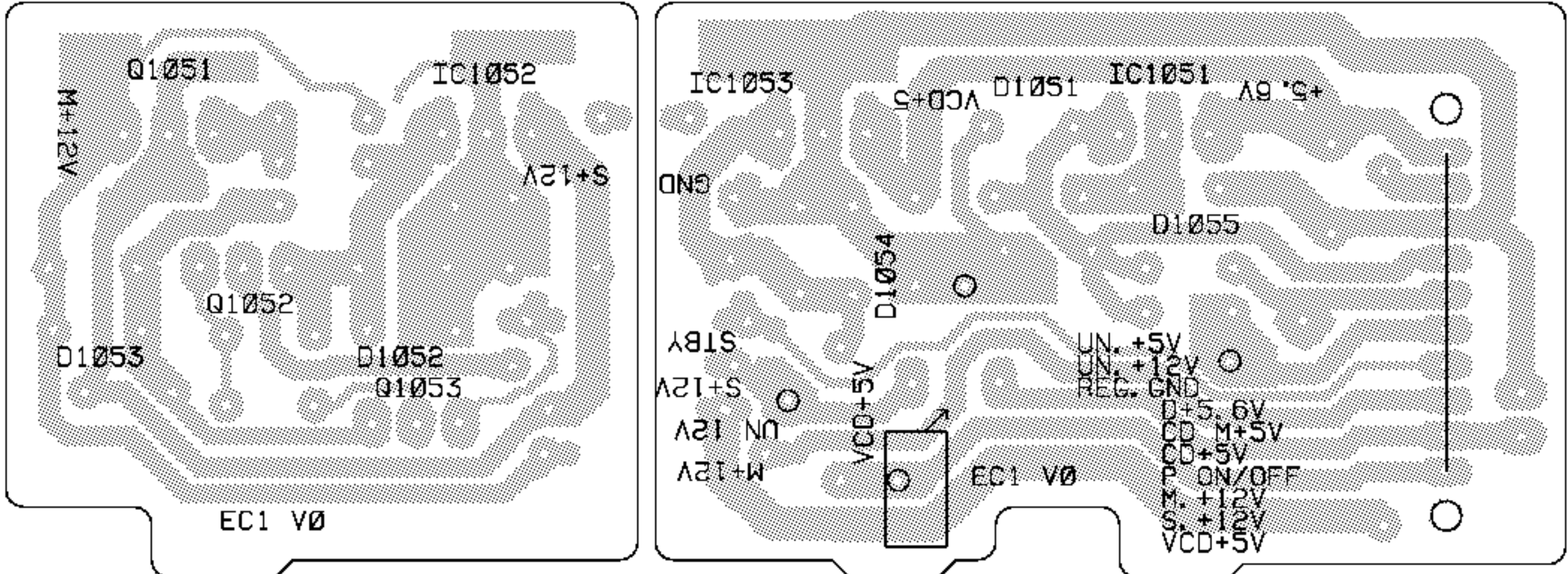
ANP7144-D

C D E



ANP7197-A

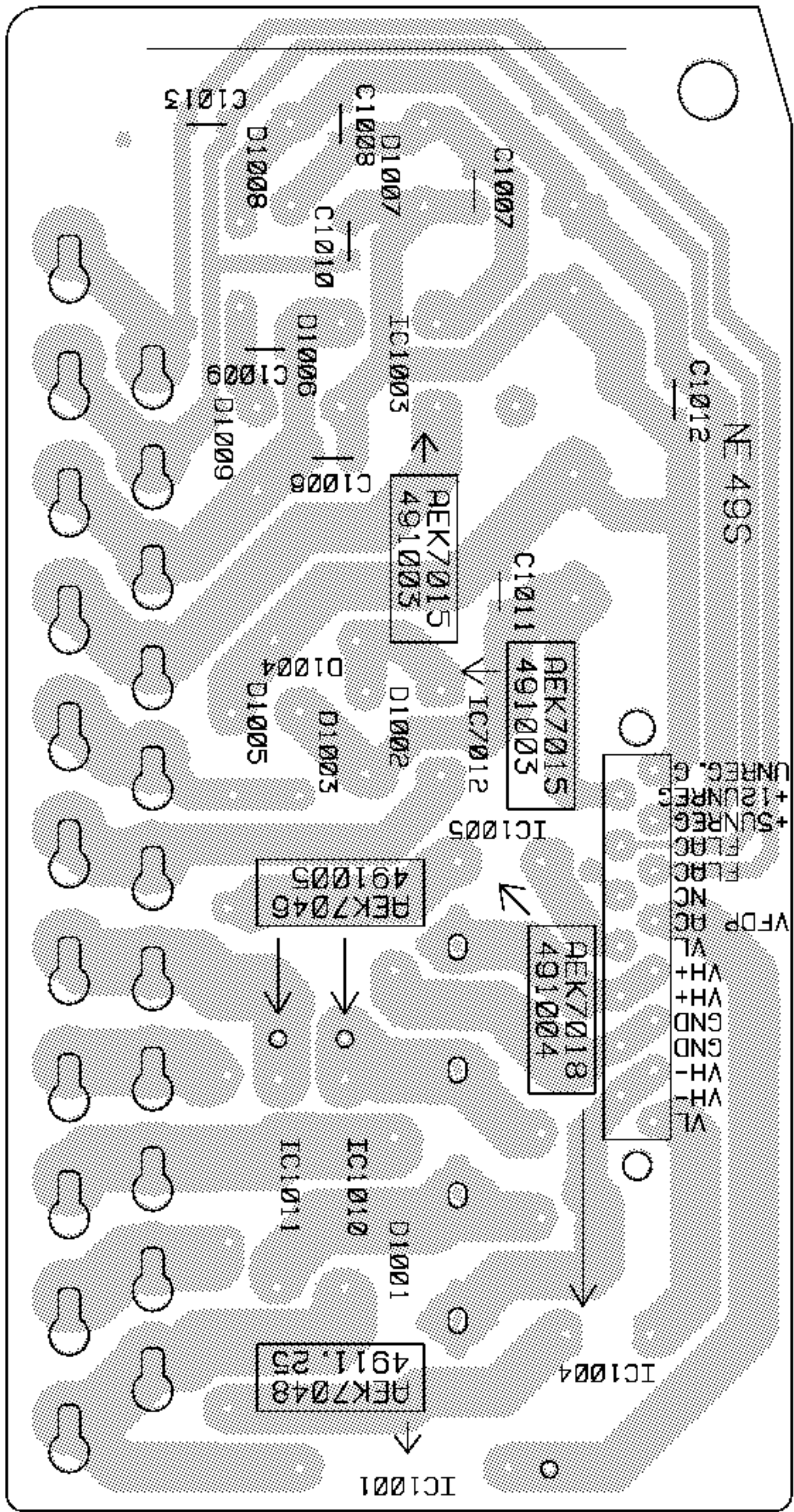
H REG ASSY



Q1051 IC1052 IC1053 IC1051
Q1052 Q1053

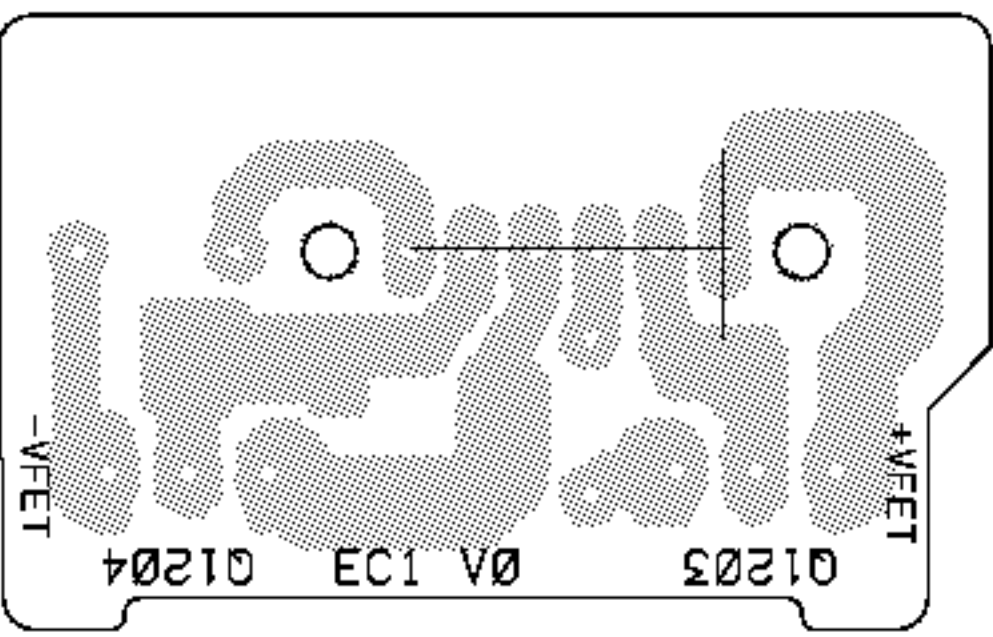
ANP7198-B

M SECONDARY ASSY



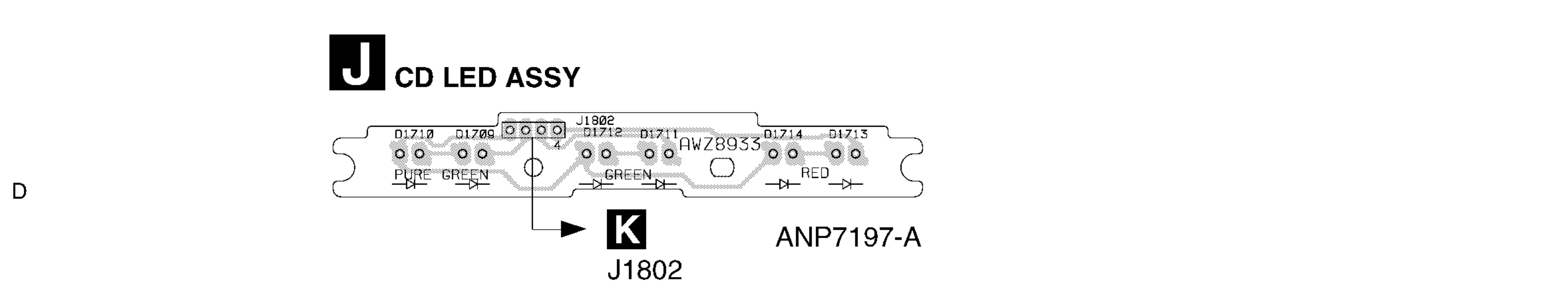
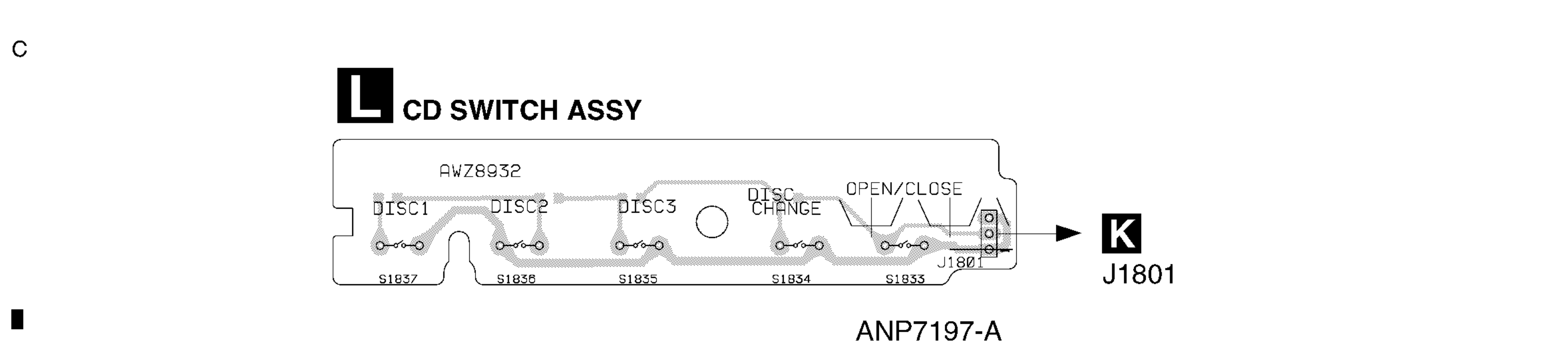
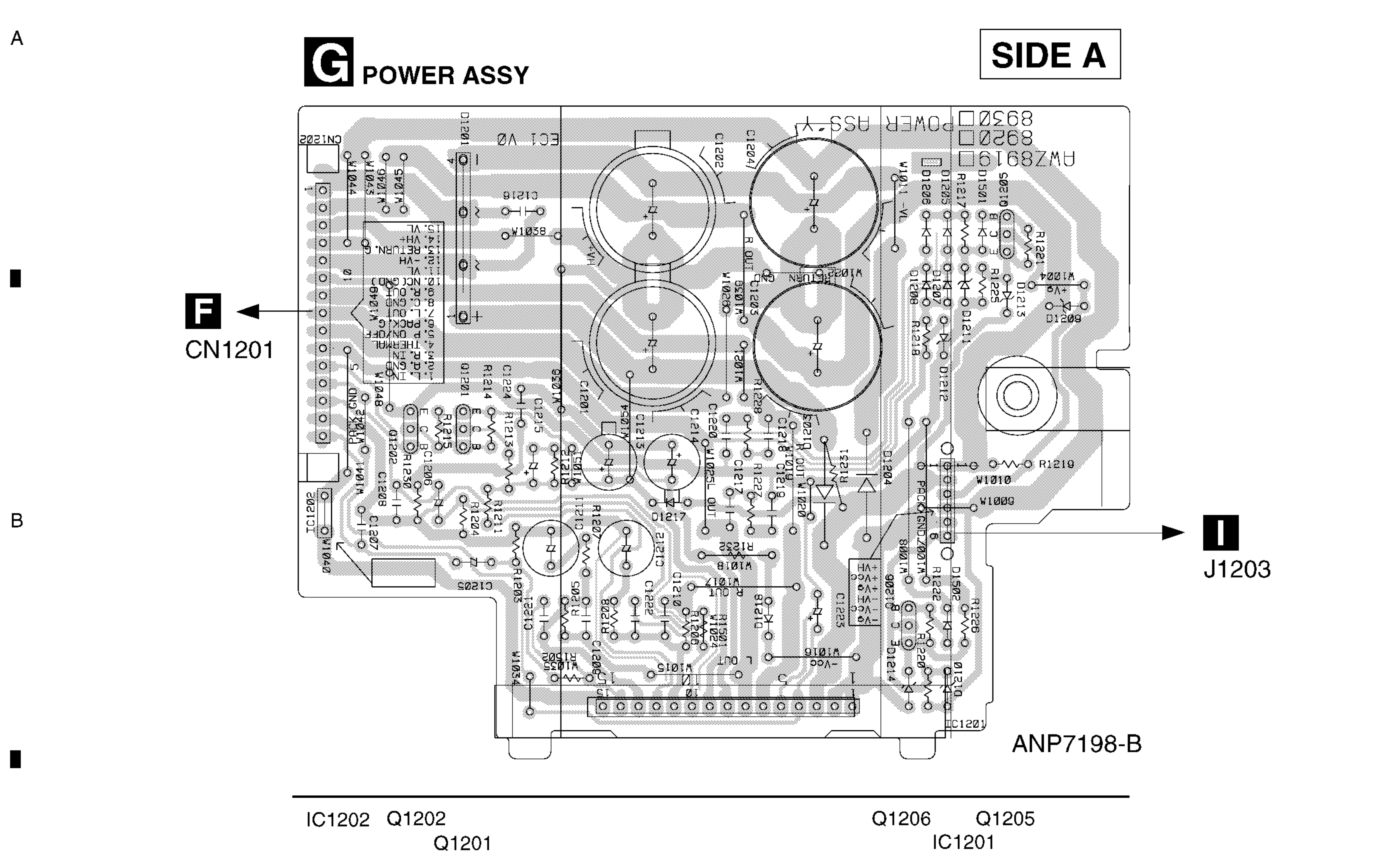
ANP7197-A

I FET ASSY

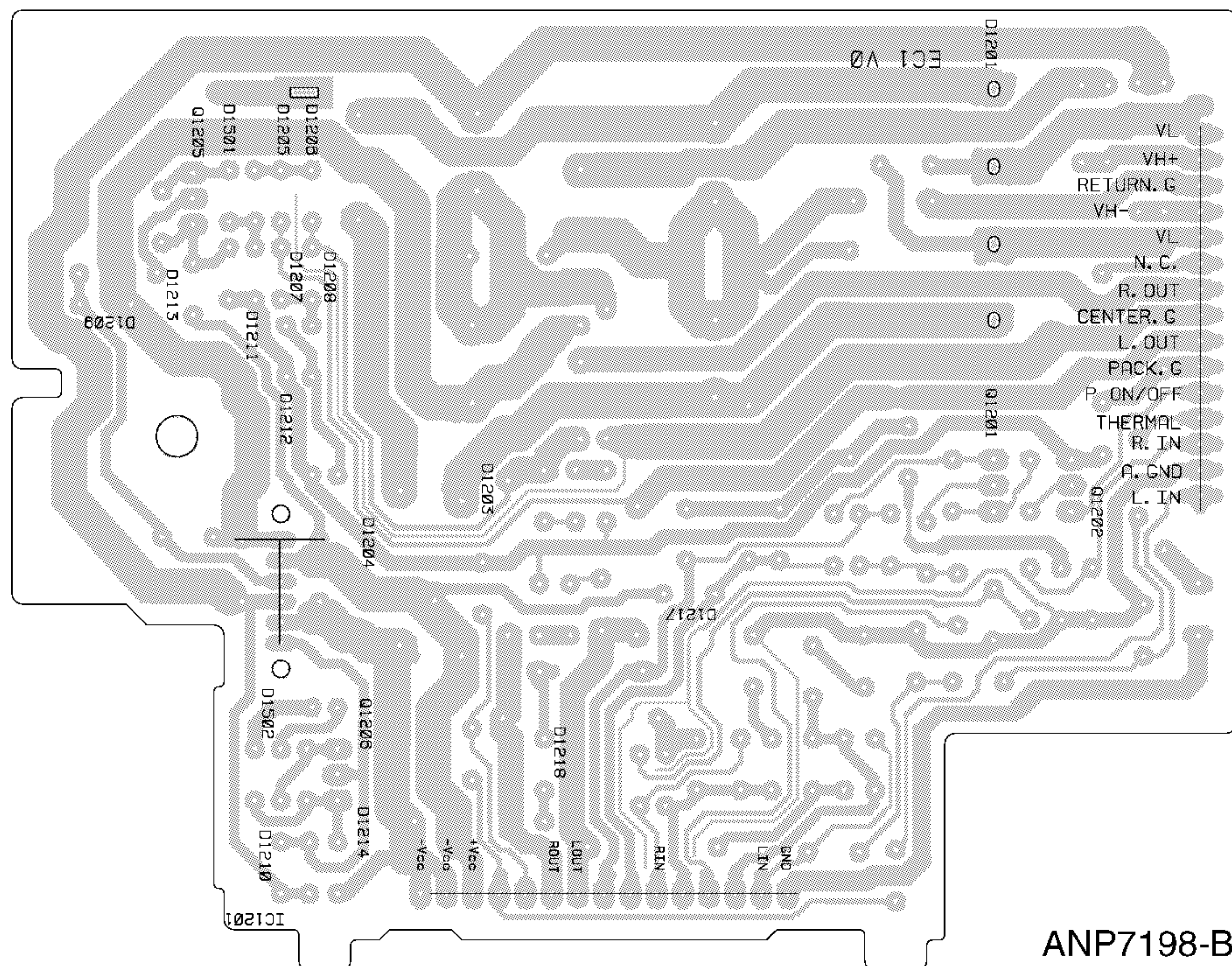


ANP7198-B

4.5 POWER ASSY, CD SWITCH ASSY AND CD LED ASSY



G POWER ASSY



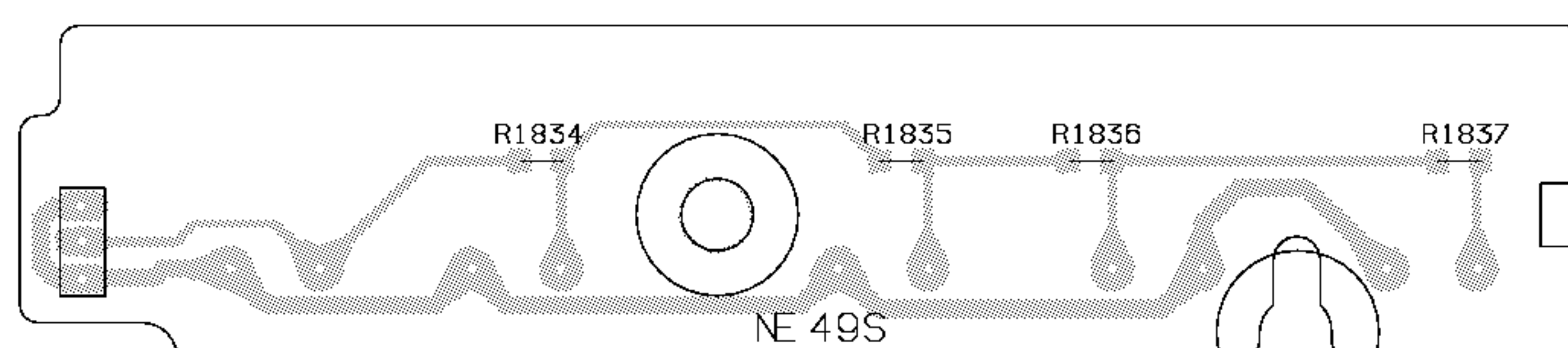
Q1205	Q1206
IC1201	

Q1201

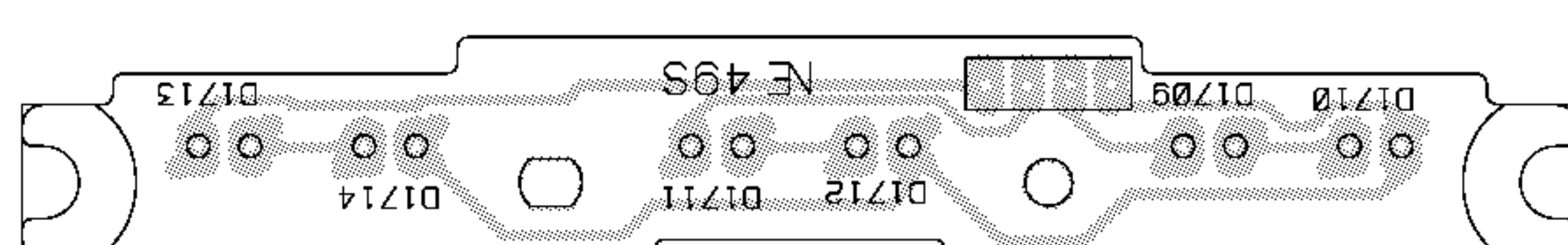
Q1202

ANP7198-B

L CD SWITCH ASSY

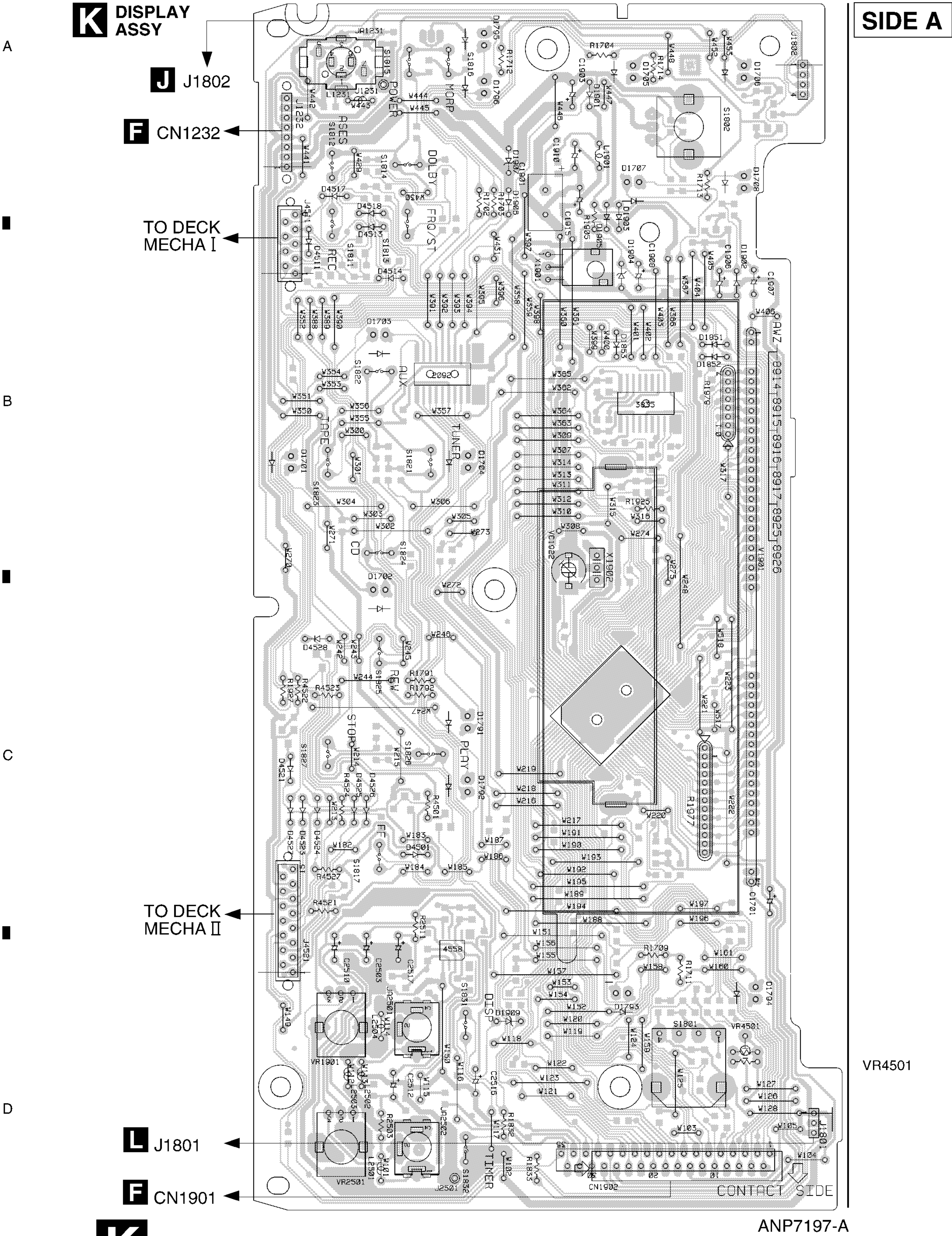


ANP7197-A

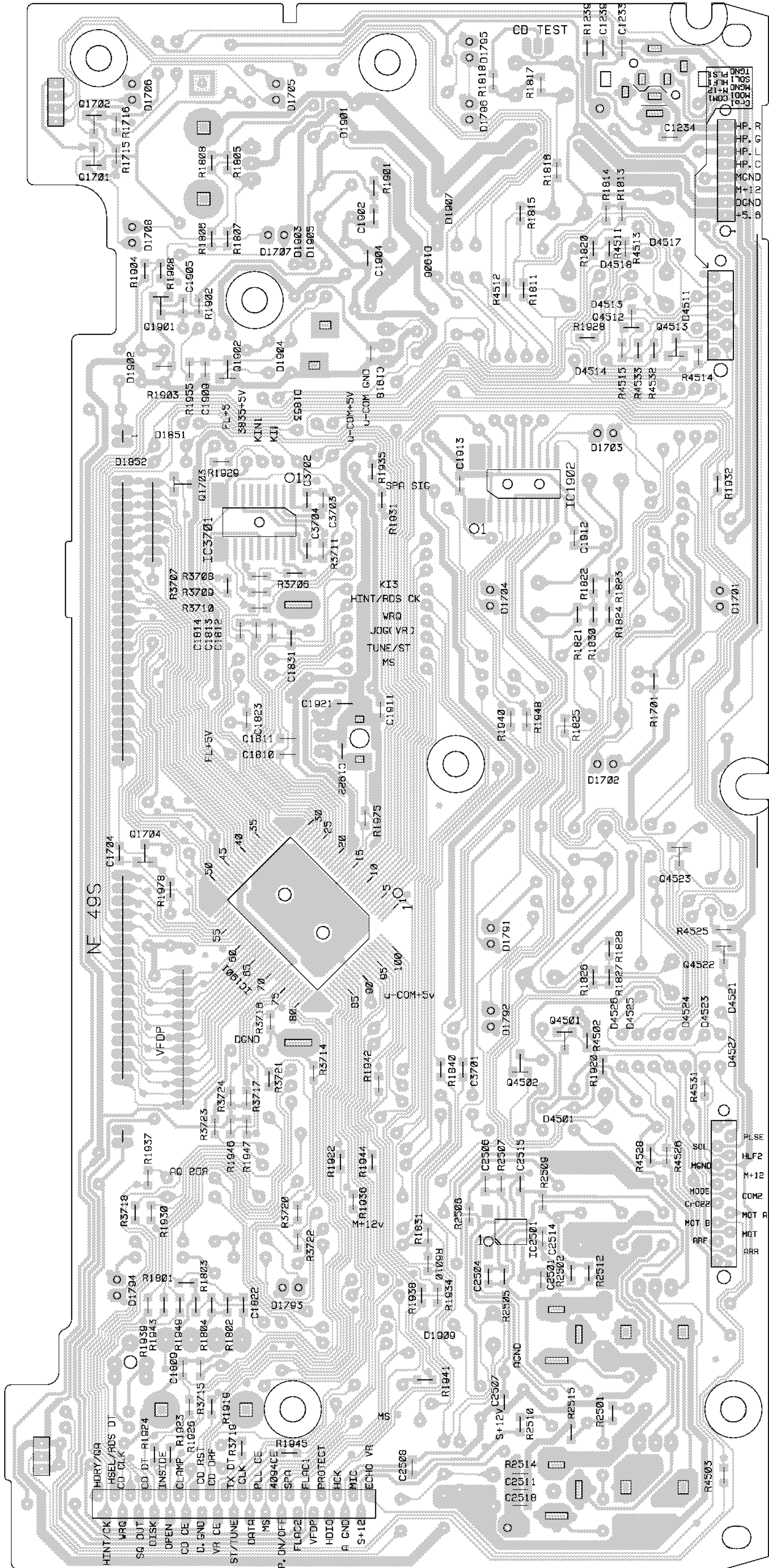
J CD LED ASSY

ANP7197-A

4.6 DISPLAY ASSY



- Q1702
- Q1701
- Q1901
- Q4512
- Q4513
- Q1902
- Q1703
- IC1902
- IC3701
- Q4523
- Q1740
- IC1901
- Q4522
- Q4501
- Q4502
- IC2501



SIDE B

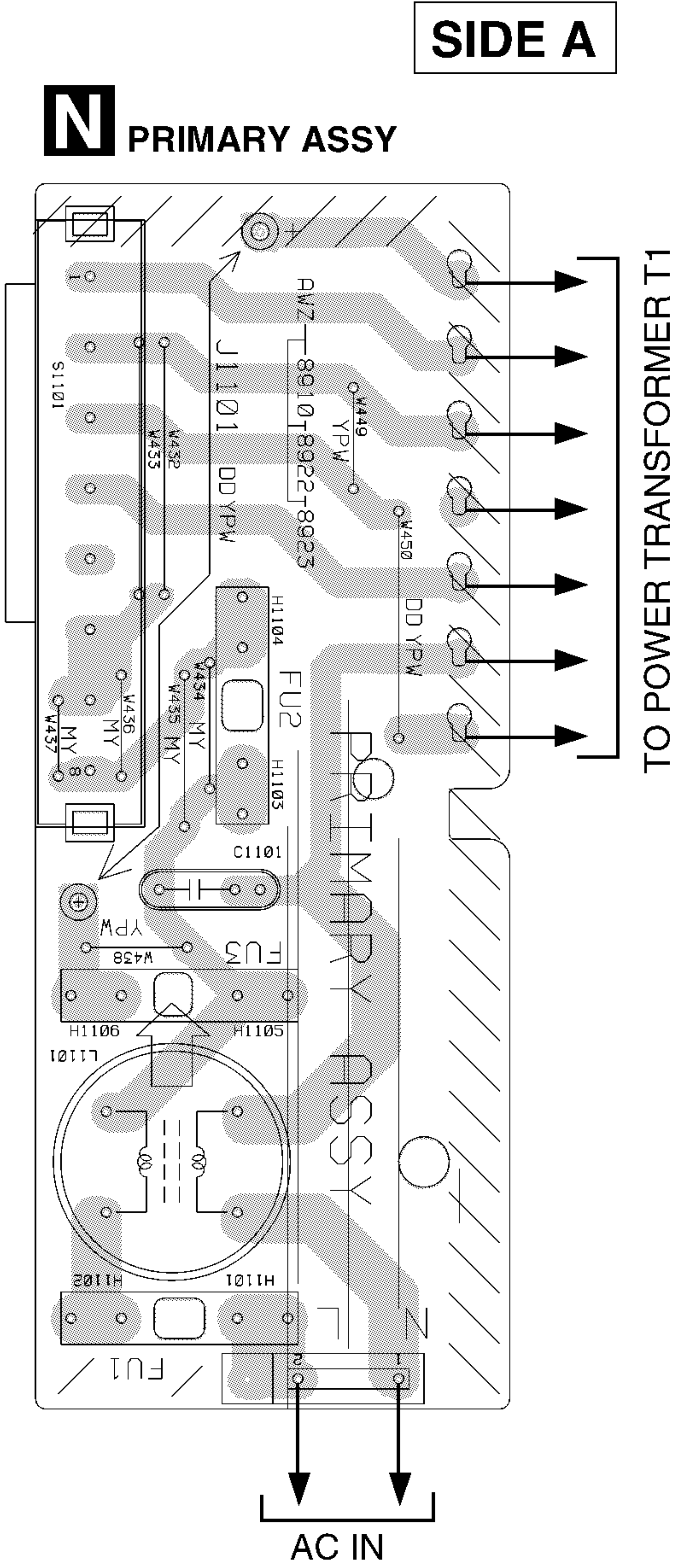
4.7 PRIMARY ASSY

A

B

C

D



5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
• The $\triangle$ 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 $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561 RD1/4PU561J
47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473 RD1/4PU473J
0.5 Ω $\rightarrow$ 0R5 RN2H0R5K
1 Ω $\rightarrow$ 1R0 RS1P1R0K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621 RN1/4PC5621F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.								Remarks
		XR-A600 /DDXJ	XR-A600 /DLXJ/NC	XR-A600 DLXJN/NC	XR-A600 /YPWXJ	XR-A600 /DXJ/NC	XR-A500 /DDXJ	XR-A500 /YPWXJ	XR-A500EE /DLWXJ/EE	
NSP	POWER ASSY └ REG ASSY └ POWER ASSY └ FET ASSY	AWK7409 AWZ8905 AWZ8920 AWZ8921	AWK7409 AWZ8905 AWZ8920 AWZ8921	AWK7409 AWZ8905 AWZ8920 AWZ8921	AWK7409 AWZ8905 AWZ8920 AWZ8921	AWK7409 AWZ8905 AWZ8920 AWZ8921	AWK7408 AWZ8905 AWZ8919 AWZ8921	AWK7408 AWZ8905 AWZ8919 AWZ8921	AWK7408 AWZ8905 AWZ8919 AWZ8921	
NSP	COMPLEX ASSY └ SECONDARY ASSY └ AF ASSY └ PRIMARY ASSY └ DISPLAY ASSY	AWM7308 AWZ8913 AWZ8908 AWZ8910 AWZ8914	AWM7308 AWZ8913 AWZ8908 AWZ8910 AWZ8914	AWM7308 AWZ8913 AWZ8908 AWZ8910 AWZ8914	AWM7331 AWZ8913 AWU7045 AWZ8922 AWZ8915	AWM7308 AWZ8913 AWZ8908 AWZ8910 AWZ8914	AWM7307 AWU7051 AWZ8907 AWZ8910 AWZ8914	AWM7330 AWU7051 AWU7010 AWZ8922 AWZ8915	AWM7309 AWU7051 AWU7046 AWZ8910 AWZ8916	
NSP	└ CD SWITCH ASSY	AWZ8932	AWZ8932	AWZ8932	AWZ8932	AWZ8932	AWZ8932	AWZ8932	AWZ8932	
NSP	└ CD LED ASSY	AWZ8933	AWZ8933	AWZ8933	AWZ8933	AWZ8933	AWZ8933	AWZ8933	AWZ8933	
	FM/AM TUNER MODULE	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7061	AXQ7069	
NSP	CD \$M LOADING MECHANISM	XXA3002	XXA3002	XXA3002	AXA7056	XXA3002	XXA3002	AXA7056	XXA3002	
NSP	└ \$M SERVO BOARD ASSY	AWX7030	AWX7030	AWX7030	AWX7033	AWX7030	AWX7030	AWX7033	AWX7030	
	└ MOTOR ASSY	AWZ8428	AWZ8428	AWZ8428	AWZ8428	AWZ8428	AWZ8428	AWZ8428	AWZ8428	
NSP	└ SW ASSY	AWZ8429	AWZ8429	AWZ8429	AWZ8429	AWZ8429	AWZ8429	AWZ8429	AWZ8429	
	└ CD ASSY	AWZ8427	AWZ8427	AWZ8427	AWZ8742	AWZ8427	AWZ8427	AWZ8742	AWZ8427	

■ CONTRAST OF PCB ASSEMBLIES

POWER ASSY

AWZ8920 and AWZ8919 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8920	AWZ8919	
	D1211, D1212 IC1201	MTZJ39C STK407 – 070	MTZJ33C STK407 – 050	

SECONDARY ASSY

AWZ8913 and AWU7051 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8913	AWU7051	
$\triangle$	IC1004, IC1005	AEK7019	AEK7018	
$\triangle$	IC1010, IC1011	AEK7047	AEK7046	

XR-A600,XR-A500,XR-A500EE

PRIMARY ASSY

AWZ8910 and AWZ8922 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8910	AWZ8922	
	H1103 – H1106 FUSE CLIP S1101	AKR1003 AKX7006	Not Used Not Used	

AF ASSY

AWZ8908, AWU7045, AWZ8907, AWU7010 and AWU7046 are constructed the same except for the following:

Mark	Symbol and Description	Part No.					Remarks
		AWZ8908	AWU7045	AWZ8907	AWU7010	AWU7046	
	C1071 C1072 C1243 C1397, C1398 C1962	Not Used CEAT221M63 CEANP3R3M2A CKAQYB103K50 Not Used	Not Used CEAT221M63 CEANP3R3M2A CKAQYB103K50 SKSQYB103K50	CEAT220M2A CEAT101M2A CEANP3R3M63 CKAQYB103K50 Not Used	CEAT220M2A CEAT101M2A CEANP3R3M63 CKAQYB103K50 CKSQYB103K50	CEAT220M2A CEAT101M2A CEANP3R3M63 Not Used Not Used	
	C1971 C1978 C3803 C4109,C4110 C4305, C4306	CKSQYB103K50 Not Used CEANP4R7M50 Not Used Not Used	Not Used Not Used CEANP4R7M50 CCSQCH391J50 CKSQYB393K50	CKSQYB103K50 Not Used CEANP4R7M50 Not Used Not Used	Not Used Not Used CEANP4R7M50 CCSQCH391J50 CKSQYB393K50	Not Used CKSQYB103K50 Not Used CCSQCH391J50 CKSQYB393K50	
	C8501 C8502 D1071 D1073 D1077	Not Used Not Used Not Used MTZJ36A S5688G	CKSQYF104Z50 CKSQYB103K50 Not Used MTZJ36A S5688G	Not Used Not Used S5688G MTZJ33C Not Used	CKSQYF104Z50 CKSQYB103K50 S5688G MTZJ33C Not Used	Not Used Not Used S5688G MTZJ33C Not Used	
	IC2201 L2101 Q1071 Q4101, Q4102, Q4305, Q4306 Q4209	BA4558F – HT Not Used 2SA965 Not Used Not Used	BA4558F – HT LAU4R7J 2SA965 DTC114TK DTC143EK	BA4558F – HT Not Used 2SA1837 Not Used Not Used	BA4558F – HT LAU4R7J 2SA1837 DTC114TK DTC143EK	Not Used Not Used 2SA1837 DTC114TK DTC143EK	
	Q4351 Q4352, Q4356 R1071 R1241 R1251, R1252	Not Used Not Used RD1/2LMF222J RD1/4PU123J RS3LMFR22J	2SB1197K DTC143EK RD1/2LMF222J RD1/4PU123J RS3LMFR22J	Not Used Not Used RD1/2LMF562J RD1/4PU183J RS2LMFR22J	2SB1197K DTC143EK RD1/2LMF562J RD1/4PU183J RS2LMFR22J	2SB1197K DTC143EK RD1/2LMF562J RD1/4PU183J RS2LMFR22J	
	R1253 R2201, R2202, R2205, R2206 R2203, R2204, R2207, R2208 R4109, R4110 R4220	RD1/4PU222J RD1/10S472J RD1/10S472J Not Used Not Used	RD1/4PU222J RD1/10S472J RD1/10S472J RS1/10S303J RS1/10S472J	RD1/4PU152J RD1/10S472J RD1/10S472J Not Used Not Used	RD1/4PU152J RD1/10S472J RD1/10S472J RS1/10S303J RS1/10S472J	RD1/4PU152J RD1/10S0R0J Not Used RS1/10S303J RS1/10S472J	
	R4309, R4310 R4311, R4312 R4331 R4351 R4352	Not Used Not Used Not Used Not Used Not Used	RS1/10S392J RS1/10S821J RS1/10S222J RS1/10S103J RD1/2LMF471J	Not Used Not Used Not Used Not Used Not Used	RS1/10S392J RS1/10S821J RS1/10S222J RS1/10S103J RD1/2LMF471J	RS1/10S392J RS1/10S821J RS1/10S222J RS1/10S103J RD1/2LMF471J	
	R8501 CN1901 CONNECTOR CN1903 CONNECTOR JA1301 JACK (2P) JA8501 OPTICAL LINK OUT	Not used HLEM35S – 1 HLEM20S – 1 VKB1050 Not Used	RS1/10S152J HLEM35S – 1 HLEM22S – 1 VKB1050 GP1F32T	Not Used HLEM35S – 1 HLEM20S – 1 VKB1050 Not Used	RS1/10S152J HLEM35S – 1 HLEM22S – 1 VKB1050 GP1F32T	Not Used HLEM29S – 1 HLEM20S – 1 Not Used Not Used	

DISPLAY ASSY

AWZ8914, AWZ8915 and AWZ8916 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		AWZ8914	AWZ8915	AWZ8916	
	C1921	Not used	Not Used	CCSQCH270J50	
	C1922	Not used	Not Used	CCSQCH220J50	
	C2503	CEJA2R2M50	CEJA2R2M50	Not Used	
	C2504	CCSQSL331J50	CCSQSL331J50	Not Used	
	C2506	CKSQYB472K50	CKSQYB472K50	Not Used	
	C2507	CKSQYB104K25	CKSQYB104K25	Not Used	
	C2510, C2512, C2516	CEJA2R2M50	CEJA2R2M50	Not Used	
	C2517	CEJA470M16	CEJA470M16	Not Used	
	D1851	Not Used	Not Used	1SS254	
	D1852, D1853	Not Used	1SS254	Not Used	
	D4518, D4528	Not Used	1SS254	1SS254	
	IC2501	BA4558F – HT	BA4558F – HT	Not Used	
	L2503, L2504	LAU4R7J	LAU4R7J	Not Used	
	Q4513, Q4523	Not Used	DTA124EK	DTA124EK	
	R2501	RS1/10S332J	RS1/10S332J	Not Used	
	R2502	RS1/10S103J	RS1/10S103J	Not Used	
	R2503	RD1/4PU332J	RD1/4PU332J	Not Used	
	R2505	RS1/10S104J	RS1/10S104J	Not Used	
	R2506	RS1/10S152J	RS1/10S152J	Not Used	
	R2507	RS1/10S752J	RS1/10S752J	Not Used	
	R2509	RS1/10S473J	RS1/10S473J	Not Used	
	R2510	RS1/10S101J	RS1/10S101J	Not Used	
	R2511	RD1/4PU222J	RD1/4PU222J	Not Used	
	R2512	RS1/10S222J	RS1/10S222J	Not Used	
	R2598, R2599	RS1/10S0R0J	RS1/10S0R0J	Not Used	
	R4511	Not Used	RS1/10S103J	RS1/10S103J	
	R4514	Not Used	RS1/10S222J	RS1/10S222J	
	R4521	Not Used	RD1/4PU103J	RD1/4PU103J	
	R4524	Not Used	RD1/4PU222J	RD1/4PU222J	
	VR2501	VCS1021	VCS1021	Not Used	
	X1902 CERAMIC RESONATOR	RSS1050	RSS1050	ASS7015	
	CN1902 CONNECTOR	HLEM35S – 1	HLEM35S – 1	HLEM29S – 1	
	JA2501, JA2502 SR JACK	AKN7004	AKN7004	Not Used	

CD ASSY

AWZ8427 and AWZ8742 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8427	AWZ8742	
	C8310	CCSQCH150J50	CCSQCH180J50	
	CN8004	HLEM20R – 1	HLEM22R – 1	
	R8305	RS1/10S0R0J	RS1/10S331J	
	R8310	Not Used	RS1/10S102J	
	X8301 CRYSTAL RESONATOR (16.9344MHz)	DSS1083	PSS1008	

XR-A600,XR-A500,XR-A500EE

Mark No. DescriptionParts No.

H REG ASSY

SEMICONDUCTORS

△	IC1051	NJM7805FA
△	IC1052	NJM7812FA
	Q1052	2SA1515
△	Q1051	2SD2012
	Q1053	DTC143ES
	D1055	1SS254
	D1052, D1053	MTZJ15C
	D1051	MTZJ6.8C

CAPACITORS

	C1055 – C1057	CEAT100M50
	C1051, C1052	CEAT1R0M50
	C1060	CEAT470M10

RESISTORS

	All Resistors	RD1/4PU□□□J
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OTHERS

	1051	CABLE HOLDER(10P)	51048 – 1000
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G POWER ASSY

SEMICONDUCTORS

△	IC1201	STK407 – 070
	Q1201, Q1206	2SA1048
	Q1205	2SC2458
	Q1202	DTC124ES
△	D1217, D1218	1SR139 – 100
	D1205 – D1208, D1501, D1502	1SS254
△	D1203, D1204	20E2 – FC
△	D1201	D3SBA20(B)
	D1213, D1214	MTZJ10C
	D1209, D1210	MTZJ18B/C
	D1211, D1212	MTZJ39C

CAPACITORS

	C1201, C1202 (2200μF/50V)	ACH7070
	C1203, C1204 (2200μF/63V)	ACH7071
	C1209, C1210	CCCSL3R0C50
	C1211, C1212	CEANP220M35
	C1205, C1206	CEANP2R2M50
	C1213, C1214	CEAT101M50
	C1215	CEAT330M50
	C1217 – C1220	CGCYF104Z50
	C1224	CKCYB102K50
	C1207, C1208	CKCYF222Z50
	C1216	CQMA103K2E

RESISTORS

	All Resistors	RD1/4PU□□□J
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OTHERS

	1204	CABLE HOLDER(6P)	51048 – 0600
	CN1202	B TO B CONNECTOR 15P	RKP1806

I FET ASSY

SEMICONDUCTORS

△	Q1203	IRFI9Z34G
△	Q1204	IRFIZ34G

Mark No. DescriptionParts No.

RESISTORS

	All Resistors	RD1/4PU□□□J
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OTHERS

	1203	CABLE HOLDER(6P)	51048 – 0600
	J1203	JUMPER WIRE	D20PYY0610E

M SECONDARY ASSY

SEMICONDUCTORS

△	IC1003, IC7012	AEK7015
△	IC1004, IC1005	AEK7019
△	IC1010, IC1011	AEK7047
△	IC1001	AEK7048
△	D1001	D3SBA20(B)
△	D1002 – D1009	S5688G

CAPACITORS

	C1002	CEAT222M25
	C1001	CEAT222M35
	C1003	CQMA333K2E

OTHERS

	CABLE HOLDER(15P)	51063 – 1505
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F AF ASSY

SEMICONDUCTORS

	IC1501, IC2201, IC3702, IC4102, IC4301	BA4558F – HT
	IC4101	BU4066BCF
	IC1991, IC1992	BU4094BCF
	IC4401	CXA1101P
	IC2101	LC75394NED
	Q1204, Q1254	2SA1037K
	Q1071	2SA965
	Q4353, Q4354	2SC1815
	Q4361	2SC2240
	Q1202, Q1251 – Q1253, Q1255, Q1256	2SC2412K
	Q4201, Q4202, Q4451 – Q4454	2SC2412K
	Q1231 – Q1234, Q1501, Q1502, Q4355	2SD2114K
	Q4421, Q4422	2SD2114K
	Q4307, Q4308	2SK373
	Q4301, Q4302	DTA114TK
	Q1503	DTA124EK
	Q1235, Q4208	DTA143EK
	Q1201, Q1991, Q4423, Q4456	DTC124EK
	Q4207, Q4309, Q4362, Q4455	DTC143EK
	D1054, D1074, D1241 – D1243	1SS254
	D1246 – D1248, D1251, D1253, D1981	1SS254
	D4201, D4301 – D4306, D4451, D4452	1SS254
	D2101 – D2103, D4601	1SS355
	D1073	MTZJ36A
	D4401	MTZJ6.2A
	D1075	MTZJ8.2B
	D1052, D1053	S5688G
△	D1072, D1077	S5688G

COILS AND FILTERS

	L1201, L1202 (1mH)	ATH – 133
	L4351 (4.05mH)	ATX7002
	L2181	LAU100J
	L4301, L4302	LTA332J
	L4303, L4304	LTA822J

Mark No.	Description	Parts No.
	F4401, F4402	RTF1209
SWITCHES AND RELAYS		
	RY1251	ASR7007
CAPACITORS		
	C4319, C4320	CCCSL271K2H
	C4191, C4192, C4323, C4324	CCSQCH100D50
	C1984, C2131, C2132	CCSQCH101J50
	C4601	CCSQCH220J50
	C1993	CCSQCH221J50
	C4101, C4102, C4151, C4152	CCSQCH821J50
	C1241	CEANP2R2M2A
	C1243	CEANP3R3M2A
	C1231, C1232, C3808	CEANP4R7M50
	C4401, C4402	CEASR68M50
	C1252, C4357, C4364, C4403, C4404	CEAT100M50
	C4454	CEAT100M50
	C1513, C2135, C2136, C4405	CEAT101M16
	C1073, C4415, C4416, C4453	CEAT220M50
	C1253, C4406	CEAT221M16
	C1072	CEAT221M63
	C4117	CEAT4R7M50
	C1501, C1502, C1509, C1510	CEJA2R2M50
	C2109, C2110, C4207, C4208	CEJA2R2M50
	C4301 – C4304, C4315, C4316	CEJA2R2M50
	C4411, C4412	CEJA2R2M50
	C2137, C4103, C4104, C4309, C4310	CEJA330M16
	C4359, C4360	CEJA330M16
	C4107	CEJA470M16
	C2101 – C2108, C2129, C2130	CEJAR33M50
	C1514	CEJAR47M50
	C2115, C2116	CFTLA394J50
	C2111, C2112	CFTLA474J50
	C4362	CKCYB681J2H
	C4115, C4116	CKCYF473Z50
	C1992	CKSQYB102K50
	C1397, C1398, C1970, C1971, C1982	CKSQYB103K50
	C1989, C1990, C1996, C1997	CKSQYB103K50
	C4602, C4603	CKSQYB104K25
	C2125, C2126	CKSQYB122K50
	C4317, C4318, C4413, C4414	CKSQYB152K50
	C4313, C4314	CKSQYB272K50
	C2119, C2120	CKSQYB273K50
	C4352, C4354	CKSQYB332K50
	C1505, C1506, C1991, C4307, C4308	CKSQYB333K50
	C2117, C2118	CKSQYB393K50
	C1986 – C1988, C1995	CKSQYB471K50
	C2121, C2122, C4356	CKSQYB472K50
	C1507, C1508	CKSQYB563K25
	C2123, C2124, C2127, C2128	CKSQYB682K50
	C4105, C4106	CKSQYB682K50
	C2113, C2114	CKSQYB683K25
	C4311, C4312	CKSQYB823K25
	C2145	CKSQYF104Z50
	C4361	CQHA822J2A
	C4409, C4410	CQMBA103J50
	C4358	CQMBA223J50

Mark No.	Description	Parts No.
RESISTORS		
	R1071	RD1/2LMF222J
	R1223, R1224	RD1/4LMF100J
	R4360	RD1/4LMF360J
	R4357	RD1/4LMF4R7J
	R1243	RD1/4PU102J
	R1072	RD1/4PU103J
	R1081	RD1/4PU122J
	R1241	RD1/4PU123J
	R2108	RD1/4PU153J
	R1253, R4358	RD1/4PU222J
	R1245	RD1/4PU392J
	R4510	RD1/4PU471J
	R1246	RD1/4PU562J
	R1231, R1232	RS2LMF331J
	R1251, R1252	RS3LMFR22J
	VR4301, VR4302 (4.7kΩ/0.1W)	PCP1028
	VR4201 – VR4204 (22kΩ/0.1W)	PCP1030
	VR4351, VR4352 (220kΩ/0.1W)	PCP1033
	Other Resistors	RS1/10S□□□J
OTHERS		
	CABLE HOLDER(15P)	51063 – 1505
	8P JUMPER CONNECTOR	52147 – 0810
	10PJUMPER CONNECTOR	52147 – 1010
	SPEAKER TERMINAL 4 – P	AKE7035
	2P TOP POST	B2B – EH
	3P TOP POST	B3B – EH
	3P TOP POST(RED)	B3B – EH – R
	CONNECTOR 20P	HLEM20S – 1
	CONNECTOR	HLEM35S – 1
	14P PLUG	KM200IB14
	B TO B CONNECTOR 15P	RKP1788
	JA1301, JA2101 JACK	VKB1050
PRIMARY ASSY		
COILS AND FILTERS		
	L1101	ATF – 151
SWITCHES AND RELAYS		
	S1101	AKX7006
CAPACITORS		
	C1101 (10000pF/AC250V)	ACG7020
OTHERS		
	H1101 – H1106 FUSE CLIP	AKR1003
DISPLAY ASSY		
SEMICONDUCTORS		
	IC3701	BA3835F
	IC2501	BA4558F – HT
	IC1902	BU2092F
	IC1901	PDC040A
	Q1701	2SA1037K
	Q4501	2SB1197K
	Q1702	2SC2411K
	Q1703	DTC143EK
	Q1901	2SC2412K
	Q4512, Q4522	2SD1781K

XR-A600,XR-A500,XR-A500EE

Mark No.	Description	Parts No.
	Q1704, Q1902, Q4502	DTC143EK
	D1901 – D1903, D1905, D1906, D4501	1SS254
	D4511, D4513, D4514, D4517, D4521	1SS254
	D4523 – D4527	1SS254
	D1701 – D1704, D1791, D1792	MBG5064X
	D1909	MTZJ6.8C
	D1705 – D1708, D1793 – D1796	SLP7118C51H
COILS AND FILTERS		
	L1231	LAU100J
	L1901	LAU220J
	L2503, L2504	LAU4R7J
SWITCHES AND RELAYS		
	S1811 – S1817, S1821 – S1827	ASG1034
	S1831, S1832	ASG1034
	S1801	ASX7012
	S1802	ASX7017
CAPACITORS		
	C1901	ACH1246
	C1912	CCSQCH151J50
	C2504	CCSQSL331J50
	C1908	CEAT100M50
	C1701	CEJA220M50
	C2503, C2510, C2512, C2516	CEJA2R2M50
	C1903, C1910, C1915, C2517	CEJA470M16
	C1907	CEJAR22M50
	C1906	CEJAR47M50
	C1233, C1234, C1822, C1823, C1905	CKSQYB102K50
	C1911, C1918, C2507, C3701 – C3704	CKSQYB104K25
	C1813	CKSQYB471K50
	C1812, C1814, C1831, C2506	CKSQYB472K50
	C1811	CKSQYB473K50
	C1810	CKSQYB823K25
	C1913	CKSQYF104Z50
	C1932	CKSQYF105Z16
	C1902, C1909	CKSQYF473Z50
RESISTORS		
	R1977	RA12T473J
	R1979	RA7T473J
	R1832	RD1/4PU101J
	R1927, R4501, R4522	RD1/4PU102J
	R1833	RD1/4PU121J
	R1791, R1792, R1925	RD1/4PU221J
	R2511	RD1/4PU222J
	R4527	RD1/4PU223J
	R2503	RD1/4PU332J
	R1905, R4523	RD1/4PU473J
	R1702 – R1704, R1712 – R1714	RD1/4PU561J
	R1709, R1711	RD1/4PU681J
	VR4501 (3.3kΩ/0.1W)	PCP1049
	VR2501 (10kΩ – B)	VCS1021
	Other Resistors	RS1/10S□□□J
OTHERS		
	CABLE HOLDER(8P)	51048 – 0800
	CABLE HOLDER(9P)	51063 – 0905
	CABLE HOLDER(15P)	51063 – 1505
	V1901 FL TUBE	AAV7044
	JA2501, JA2502 JACK	AKN7004

Mark No.	Description	Parts No.
	JA1231 MINITURE JACK	AKN7005
	REMOTE RECEIVER UNIT	GP1U28X
	CN1902 CONNECTOR	HLEM35S – 1
	FL HOLDER(FE)	VNF1096
	X1902 CERAMIC RESONATOR (6MHz)	RSS1050
CD SWITCH ASSY		
SWITCHES AND RELAYS		
	S1833 – S1837	ASG1034
RESISTORS		
	All Resistors	RS1/10S□□□J
OTHERS		
	J1801 3P JUMPER WIRE	D20PWW0315E
CD LED ASSY		
SEMICONDUCTORS		
	D1711, D1712	SLP3118C51H
	D1709, D1710	SLP7118C51H
	D1713, D1714	SLP9118C51H
FM/AM TUNER MODULE (EXCEPT XR-A500EE/DLWXJ/EE)		
SEMICONDUCTORS		
	IC6201	LA1832ML
	IC6202	LC72131MD
	Q6402	2SC2223
	Q6203	2SC2705
	Q6201, Q6202	2SC2712
	Q6214, Q6403	2SC2714
	Q6404	2SK302
	Q6401	3SK194
	Q6204	DTA124ES
	Q6205	DTC124EK
	D6202	1SS254
	D6401, D6402	1T363
COILS AND FILTERS		
	L6404	ATC1003
	L6401	ATC1020
	L6402	ATC1021
	F6204	ATF – 107
	F6203	ATF – 119
	F6401	ATF – 155
	F6206	ATF7008
	F6202 (455kHz)	ATF7011
	L6206, L6208, L6403	LAU2R2J
TRANSFORMERS		
	T6201	ATB7008
	T6401	ATE7002
CAPACITORS		
	C6208	CCSQCH100D50
	C6212, C6274, C6275, C6408	CCSQCH101J50
	C6221, C6222, C6416	CCSQCH150J50
	C6271	CCSQCH200J50
	C6415	CCSQCH330J50
	C6401, C6419	CCSQCH5R0C50
	C6407	CCSQCK1R0C50
	C6410	CCSQCK2R0C50

Mark No.	Description	Parts No.
C6413		CCSQPH220J50
C6414		CCSQPH8R0D50
C6405		CCSQTH180J50
C6234, C6235		CEAL1R0M50
C6245		CEAL470M16
C6224		CEAS100M50
C6243		CEAS101M16
C6231		CEAS1R0M50
C6227		CEAS220M16
C6236		CEAS2R2M50
C6216		CEAS330M16
C6262		CEAS3R3M50
C6219		CEAS470M10
C6244		CEAS470M16
C6249, C6250, C6265, C6266		CEAS4R7M50
C6258		CEJA470M16
C6215		CFTLA103J50
C6214		CFTLA224J50
C6211, C6254, C6403, C6406, C6412		CKSQYB102K50
C6201, C6205, C6210, C6213, C6237		CKSQYB103K50
C6276, C6278, C6280, C6281, C6402		CKSQYB103K50
C6409, C6417, C6418		CKSQYB103K50
C6251, C6252		CKSQYB153K50
C6203, C6259		CKSQYB223K50
C6228		CKSQYB472K50
C6209		CKSQYB473K50
C6230		CKSQYB821K50
C6218, C6223, C6255		CKSQYF103Z50
C6220, C6226, C6242, C6256		CKSQYF223Z50
C6225		CKSQYF473Z50

RESISTORS

R6280		RD1/4PU101J
R6413, R6416, R6418, R6906, R6909		RS1/8S0R0J
R6401		RS1/8S470J
VR6201	(10kΩ/0.1W)	RCP1045
	Other Resistors	RS1/10S□□□J

OTHERS

BN6202	TERMINAL 4 – P	AKE7025
X6202	CRYSTAL RESONATOR (456kHz)	ASS1066
X6201	CRYSTAL RESONATOR (7.2MHz)	ASS1093
CN6201	14P SOCKET	KP200IA14L

B FM/AM TUNER MODULE(XR-A500EE/DLWXJ/EE)

SEMICONDUCTORS

IC6201	LA1832ML
IC6202	LC72131MD
Q6102	2SC2223
Q6203	2SC2705
Q6201 ,Q6202	2SC2712
Q6103 ,Q6214	2SC2714
Q6104 ,Q6105	2SK302
Q6101	3SK194
Q6204	DTA114ES
Q6205	DTC124EK
D6202	1SS254
D6105	1SS355
D6101 ,D6102 ,D6104	1SV228

Mark No.	Description	Parts No.
COILS AND FILTERS		
L6103		ATC1027
L6106		ATC7001
L6101		ATC7002
L6102		ATC7003
L6104		ATC7004
F6204		ATF – 107
F6203		ATF – 119
F6206		ATF7008
F6202	(455kHz)	ATF7011
L6107 ,L6206 ,L6208		LAU2R2J

TRANSFORMERS

T6201	ATB7008
T6101	ATE7002

CAPACITORS

C6208	CCSQCH100D50
C6113 ,C6212 ,C6274 ,C6275	CCSQCH101J50
C6116 ,C6221 ,C6222	CCSQCH150J50
C6271	CCSQCH200J50
C6117	CCSQCH330J50
C6128	CCSQCH470J50
C6118	CCSQCH8R0D50
C6122	CCSQCH3R0C50
C6111 ,C6112 ,C6119 ,C6127	CCSQCK2R0C50
C6101	CCSQUJ2R0C50
C6106	CCSQUJ8R0D50
C6107	CCSQUJ9R0D50
C6234 ,C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAT100M50
C6243	CEAT101M16
C6231	CEAT1R0M50
C6227	CEAT220M50
C6236	CEAT2R2M50
C6216	CEAT330M16
C6262	CEAT3R3M50
C6219 ,C6244	CEAT470M16
C6249 ,C6250 ,C6265 ,C6266	CEAT4R7M50
C6258	CEJA470M16
C6215	CFTLA103J50
C6214	CFTLA564J50
C6105 ,C6115 ,C6125 ,C6126 ,C6211	CKSQYB102K50
C6254	CKSQYB102K50
C6102 ,C6103 ,C6114 ,C6121	CKSQYB103K50
C6123 ,C6124 ,C6201 ,C6210 ,C6213	CKSQYB103K50
C6237 ,C6267 ,C6276 ,C6279 – C6281	CKSQYB103K50
C6251 ,C6252	CKSQYB123K50
C6203 ,C6259	CKSQYB223K50
C6228	CKSQYB472K50
C6209	CKSQYB473K50
C6230	CKSQYB821K50
C6218 ,C6223 ,C6255	CKSQYF103Z50
C6220 ,C6226 ,C6242 ,C6256	CKSQYF223Z50
C6225	CKSQYF473Z50
C6282	CKSYB103K50

XR-A600,XR-A500,XR-A500EE

Mark No.	Description	Parts No.
RESISTORS		
R6280		RD1/4PU101J
R6115 ,R6119 ,R6123 ,R6127 ,R6906		RS1/8S0R0J
R6909 ,R6911		RS1/8S0R0J
R6112		RS1/8S473J
VR6201	(10kΩ/0.1W)	PCP1029
	Other Resistors	RS1/10S□□□J
OTHERS		
BN6202	TERMINAL 4 – P	AKE7025
X6202	CRYSTAL RESONATOR(456kHz)	ASS1066
X6201	CRYSTAL RESONATOR(7.2MHz)	ASS1093
CN6201	14P SOCKET	KP200IA14L
C MOTOR ASSY		
SWITCHES AND RELAYS		
S8503		ASG7009
OTHERS		
	MOTOR PULLEY	PNW1634
	SLIDER MOTOR	VXM1033
D SW ASSY		
SWITCHES AND RELAYS		
S8502		ASG7009
S8501		DSG1017
OTHERS		
J8501		D20PWY0610E
E CD ASSY		
SEMICONDUCTORS		
IC8201		BA5923FP
IC8101		LA9240ML
IC8301		LC78622ED
Q8101		2SA1048
Q8251, Q8252		2SA1560
Q8253, Q8254		2SC4040
D8253		1SS181
D8251, D8252		1SS355
COILS AND FILTERS		
L8351, L8352		LFA1R0K
L8201, L8371		LFA470J
CAPACITORS		
C8145, C8352, C8354, C8356, C8358		CCSQCH101J50
C8361, C8362		CCSQCH101J50
C8132, C8310, C8311		CCSQCH150J50
C8131		CCSQCH300J50
C8129		CCSQCK1R0C50
C8142		CEAL101M6R3
C8127		CEAL1R0M50
C8126, C8139		CEAL470M16
C8135		CEAL4R7M16
C8124		CEALR47M50
C8136		CEAS100M50
C8108, C8251, C8306, C8371		CEAS101M10
C8202		CEAS101M25
C8101		CEAS3R3M50

Mark No.	Description	Parts No.
C8105		CEAS470M16
C8109		CEASR22M50
C8106, C8119, C8133, C8360		CKSQYB102K50
C8102, C8122, C8123, C8130		CKSQYB103K50
C8137, C8138, C8201, C8309, C8312		CKSQYB103K50
C8134, C8302, C8303		CKSQYB104K25
C8353, C8359		CKSQYB152K50
C8111		CKSQYB153K25
C8114, C8117, C8120, C8121		CKSQYB154K16
C8125		CKSQYB221K50
C8107		CKSQYB223K50
C8110		CKSQYB331K50
C8115, C8128		CKSQYB332K50
C8113		CKSQYB333K25
C8112, C8141		CKSQYB334K16
C8355, C8357		CKSQYB471K50
C8116, C8140		CKSQYB473K50
C8118, C8301, C8304, C8305		CKSQYF104Z25
RESISTORS		
	All Resistors	RS1/10S□□□J
OTHERS		
CN8003	6PJUMPER CONNECTOR	52151 – 0610
CN8002		B6B – PH – K – S
CN8005		BS3P – SHF – 1AA
CN8004	CONNECTOR	HLEM20R – 1
CN8001	CONNECTOR	SLW15S – 1C7
X8301	CRYSTAL RESONATOR(16.9344MHz)	DSS1083

6. ADJUSTMENTS

6.1 TUNER SECTION

■ FM Tuner Section

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

- For XR-A500EE/DLWXJ/EE type (AXQ7069)

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	70	0-30	70MHz	L6104 L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.
2	TUNED IND. Lighting Level	98	18±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6401 and L6402. If there is a gap between them, bring them into contact with each other first, and then make adjustments.

- For DDXJ, DLXJ/NC, DLXJN/NC, YPWXJ and DXJ/NC types (AXQ7061)

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	98	0-30	98MHz	L6402 T6401	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.
2	TUNED IND. Lighting Level	98	18±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102 as well as between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.

■ AM Tuner Section

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

- For (AXQ7061) and (AXQ7069)

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	Front End Sensitivity	999*1	35-45	999kHz*1	T6201	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.

*1: For the area using 10kHz step, frequencies should be 1000 kHz

XR-A600,XR-A500,XR-A500EE

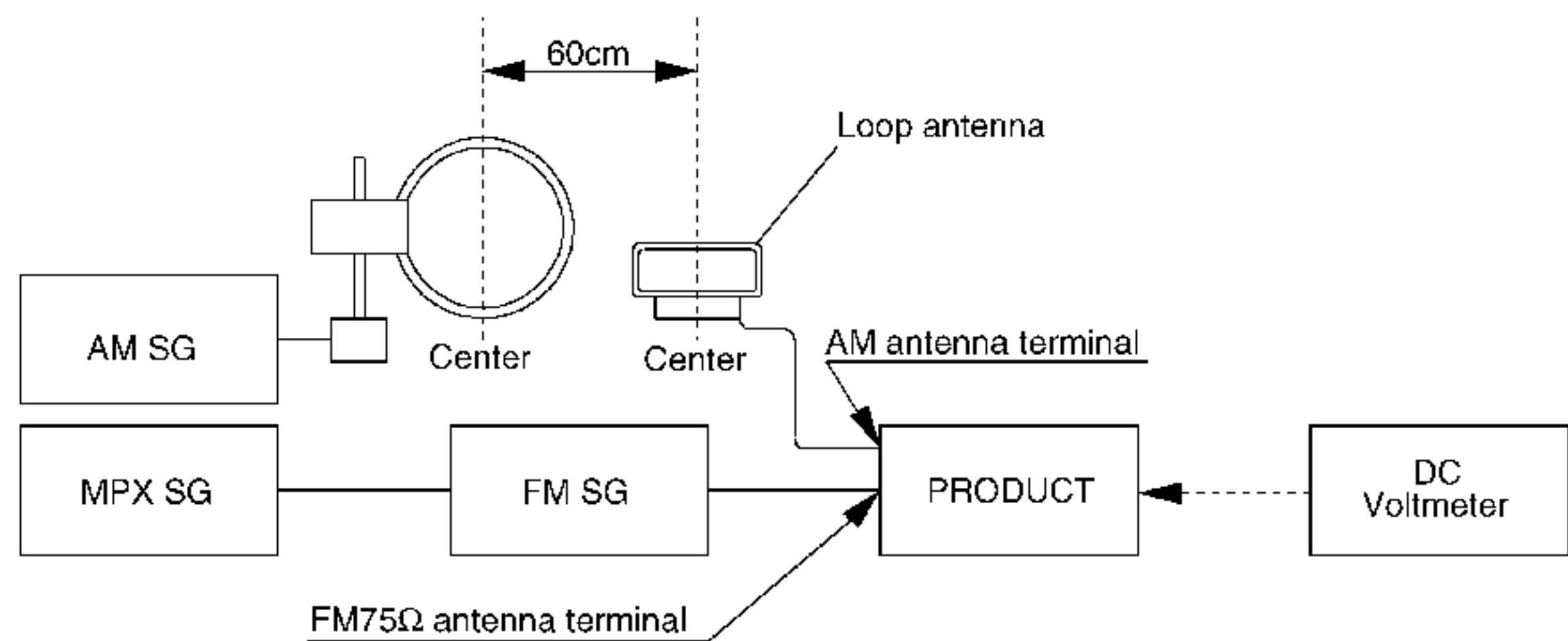


Fig. 1-1 AM and FM Adjustment Wiring Diagram

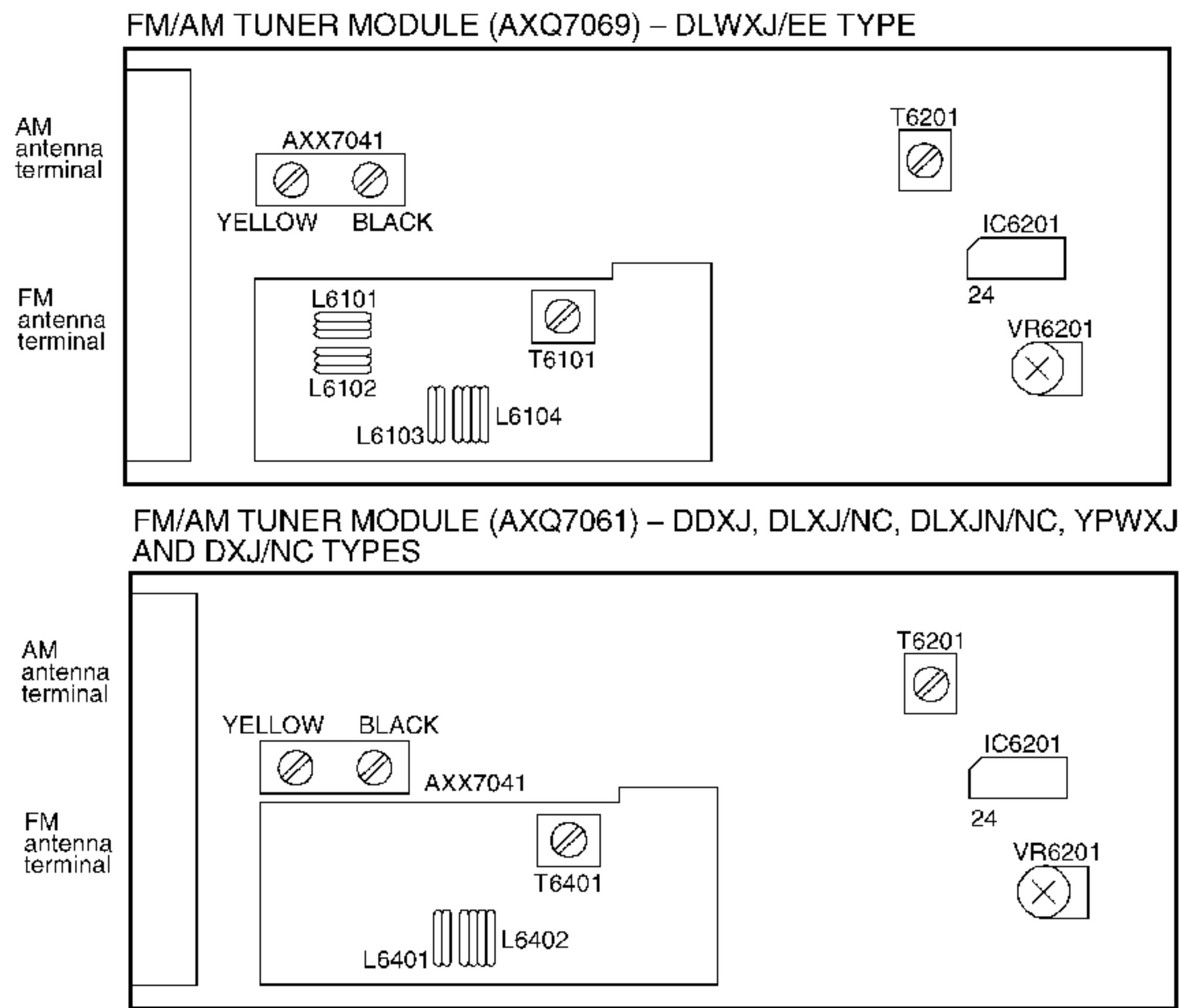
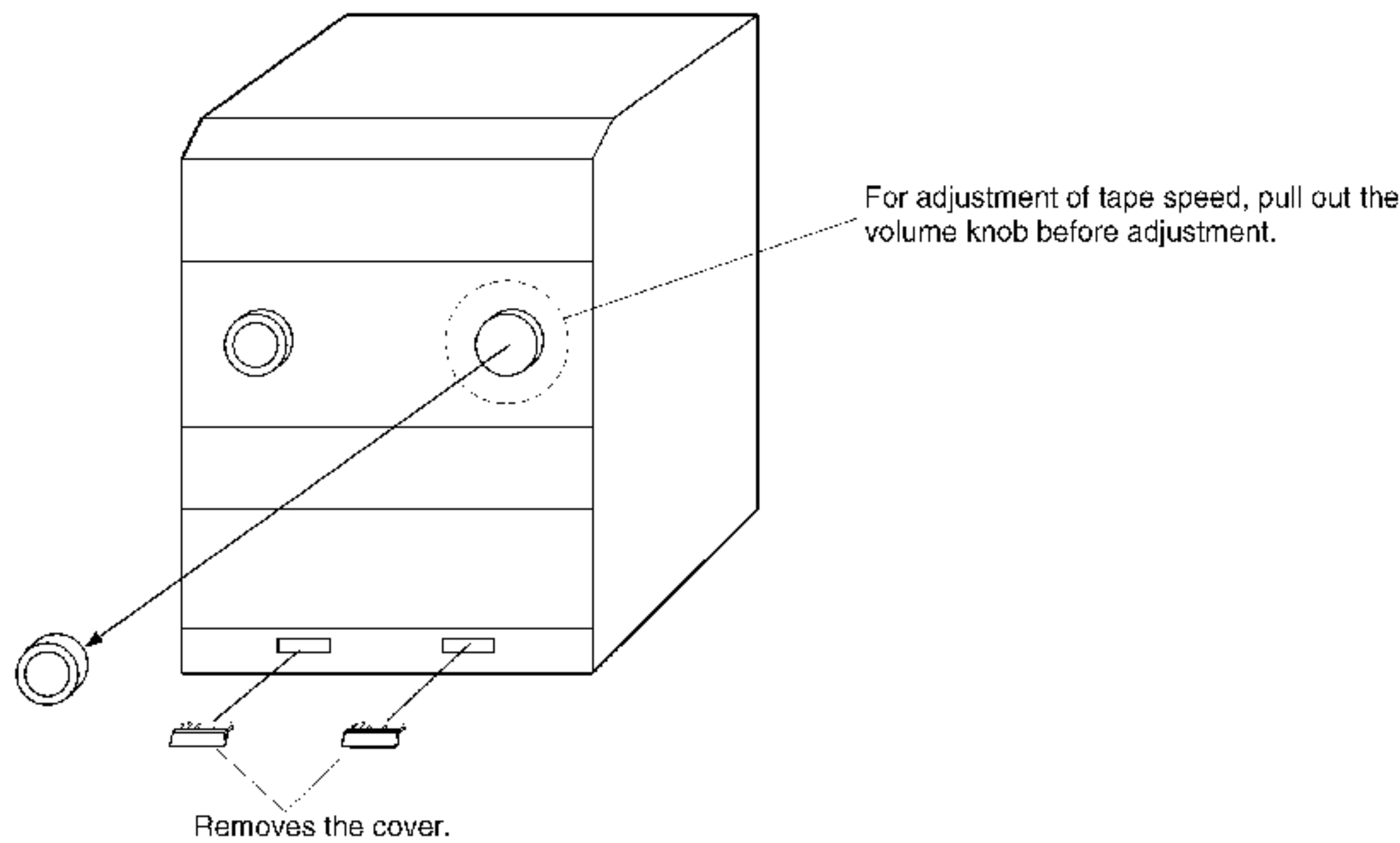


Fig. 1-2 Adjustment Points

6.2 CASSETTE DECK SECTION

- Adjustment points and test points are shown in Fig. 2-2 and Fig. 2-4.



■ Mechanical Adjustment

- Test tape: NCT-111 (3kHz, 30min).
- Remove the Volume knob.

(1) Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	NCT-111 (Playback: 3kHz)	DISPLAY ASSY VR4501	TAPE TEST POINT (Rch) (AF Assy)	Press the PLAY SW and adjust so that the reading becomes 3000Hz ±20Hz. Confirm that wow & flutter level is below 0.2% (in the reverse direction, confirm that the reading is within 3000Hz ±60Hz).	

■ Electrical Adjustment

Check the following before starting.

- (1) Confirm that the tape speed adjustment has been completed.
- (2) Clean the heads and demagnetize them using a head eraser.
- (3) Set the measurement level to 0 dBV = 1 Vrms.
- (4) Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
STD-331E: For playback adjustment
STD-632: Normal blank tape
- (5) Provide yourself with the following measuring devices:
 - AC millivoltmeter
 - Low-frequency oscillator
 - Attenuator
 - Oscilloscope
- (6) Adjust both right and left channels unless otherwise specified.
- (7) Turn the DOLBY NR switch off unless otherwise specified.
- (8) Warm up the unit for several minutes before adjustment.
In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
- (9) Always follow the indicated adjustment order.

Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (Decks I and II)

- (1) Head Azimuth Adjustment
- (2) Playback Level Adjustment

Recording Adjustment (Deck II)

- (1) Bias Oscillation Frequency Adjustment
- (2) Recording Bias Adjustment
- (3) Recording Level Adjustment.
- (4) ALC Operation Check

** As the reference recording level is 250nwb / m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160nwb / m). When adjusting, pay carefull attention to the type of tape used.*

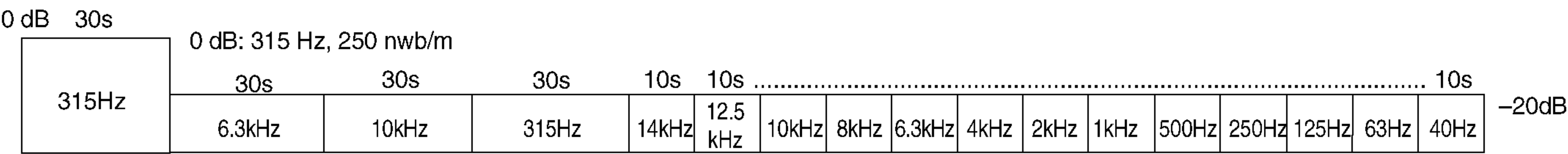


Fig. 2-1 STD-331E Test Tape

XR-A600,XR-A500,XR-A500EE

■ Playback Adjustment

(1) Head Azimuth Adjustment ● Do not switch between forward and reverse operation with the screwdriver inserted.

Step	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	PLAY	STD-331E test tape (Playback: 10kHz, -20dB)	Deck I	Head azimuth adjustment screw (Fig. 2-2)	TAPE TEST POINT (L, Rch) (AF Assy)	Max. playback signal level	After adjustment, apply silicon bond to the head azimuth adjustment screw.
			Deck II				

2. Playback Level Adjustment ● Since this adjustment determines playback Dolby NR level, perform it carefully.

Step	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	PLAY	STD-331E test tape (Playback: 315Hz, 0dB)	Deck I	VR4201 (Lch) VR4202 (Rch)	TAPE TEST POINT (L, Rch) (AF Assy)	- 4.2 dBV	
			Deck II	VR4203 (Lch) VR4204 (Rch)			

Note: Please execute playback level adjustment always in the order of deck I → deck II.

When deck I has been adjusted, always adjust deck II also.

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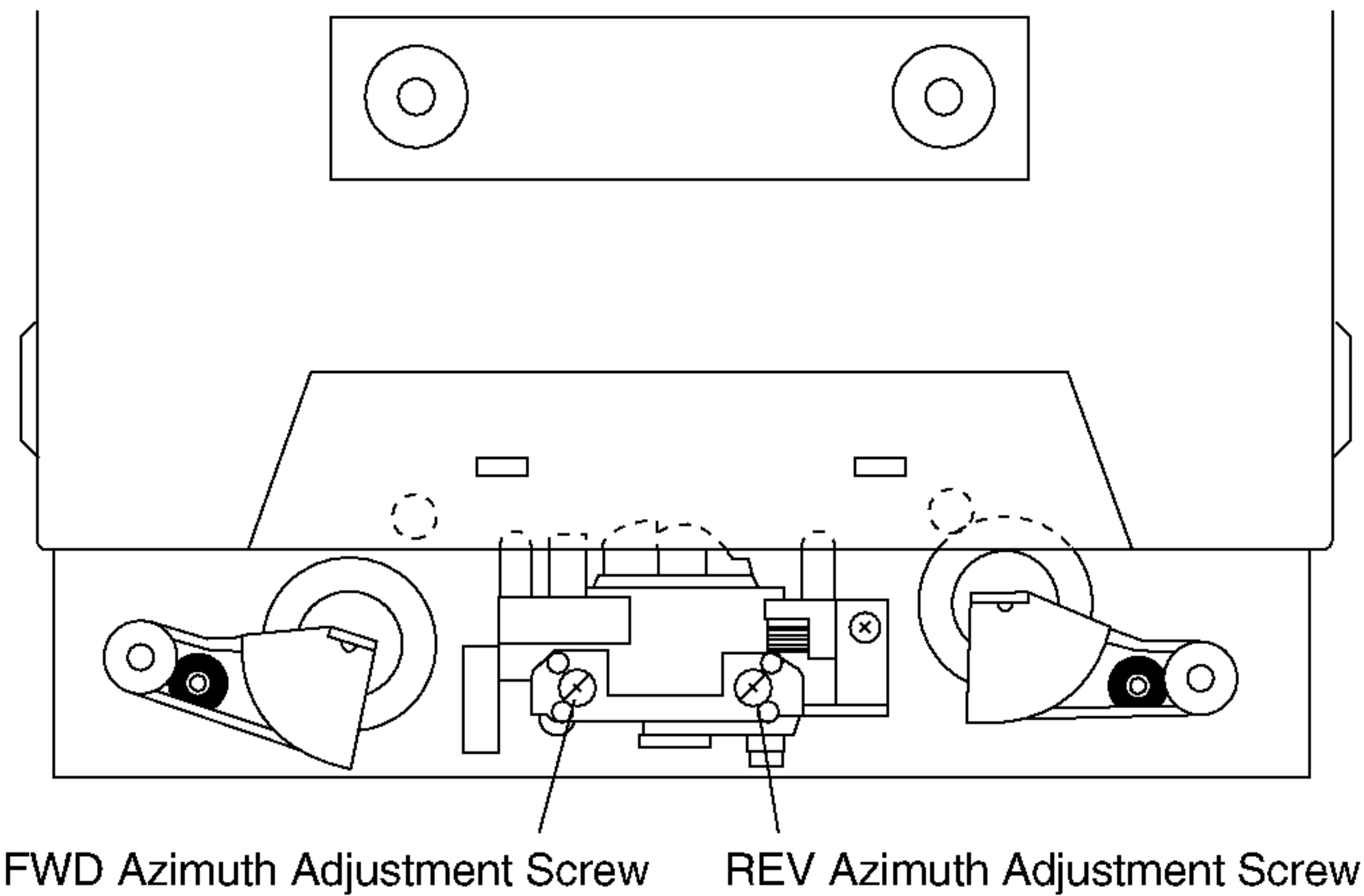
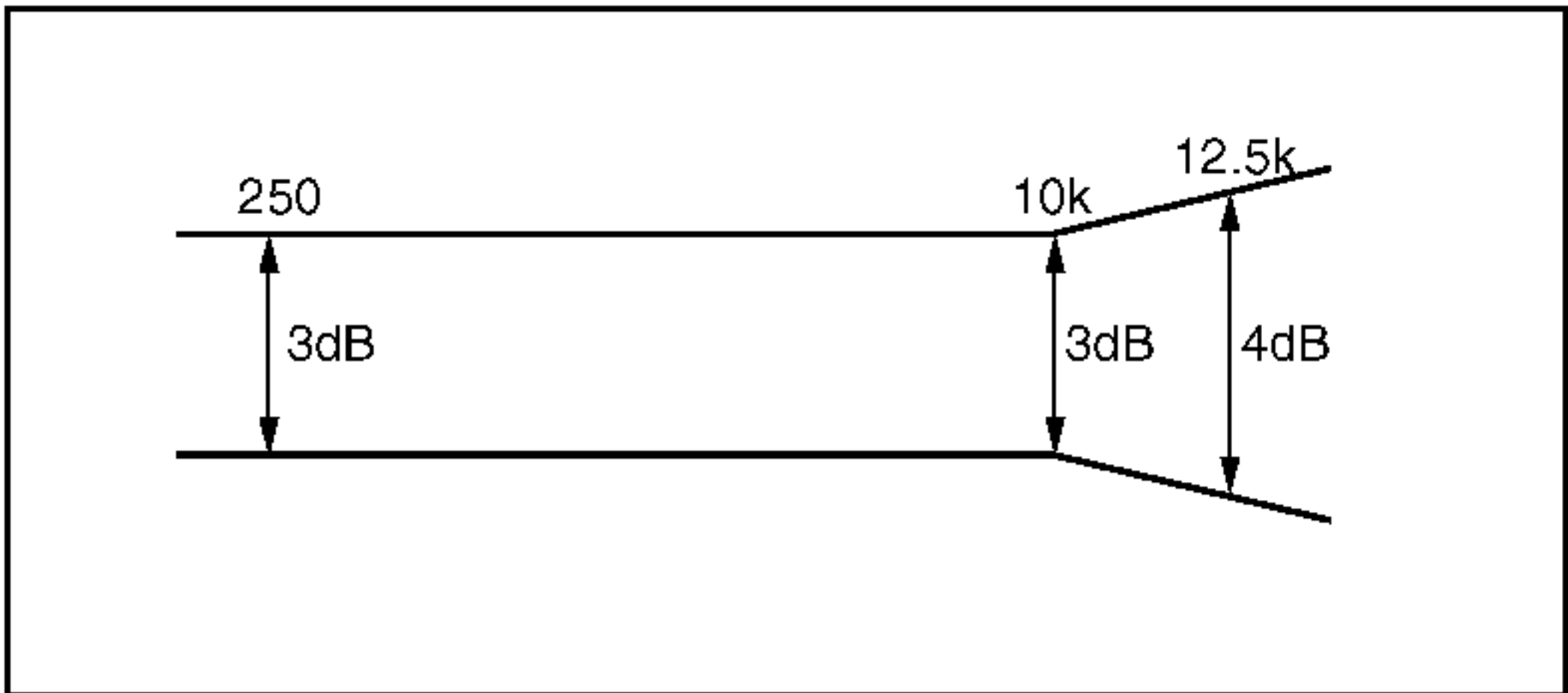


Fig. 2-2 Head Azimuth Adjustment

PLAY BACK



RECORDING

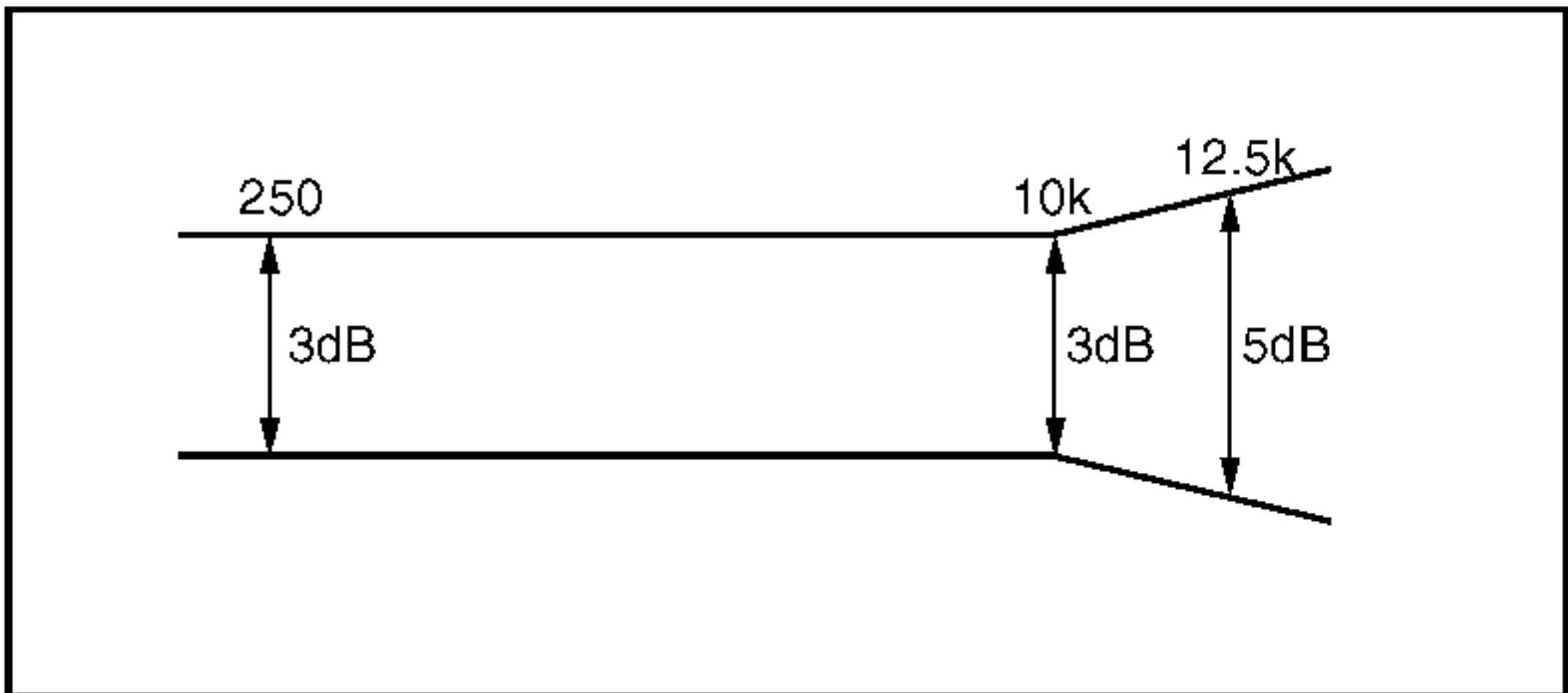


Fig. 2-3 Frequency Characteristics

■ Recording Adjustment

(1) Bias Oscillation Frequency Adjustment

Step	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	REC	Load the STD-632 test tape and set the recording mode.	Deck I	_____	_____	Oscillation frequency to be 105.0kHz ±2kHz.	When the power is turned ON while the MONO button is depressed, the frequency will decrease 2 – 3 kHz.
			DeckII	L4351	Between ㉠ point in Fig. 2-4 and GND.		

(2) Recording Bias Adjustment ● Since this adjustment affects recording bias, prevent distortion from increasing due to underbias.

Step	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	REC	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Deck I	_____	TAPE TEST POINT (L, Rch) (AF Assy)	– 24.2 dBV	
			Deck II	Input signal level			
2	REC→PLAY	Load the STD-632 test tape and record/playback the 315Hz and 10kHz signals. (see the Note below)	Deck I	_____	TAPE TEST POINT (L, Rch) (AF Assy)		Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.
			Deck II	VR4351 (Lch) VR4352 (Rch)			

Note: Set the 10kHz input signal level to the same value as the 315Hz input signal level of step 1.

(3) Recording Level Adjustment

Step	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	REC	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Deck I	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
			Deck II				
2	REC → PLAY	STD-632 test tape and record/playback the 315Hz signal.	Deck I	_____	TAPE TEST POINT (L, Rch) (AF Assy)		Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes -8.2dBV.
			Deck II	VR4301 (Lch) VR4302 (Rch)			

(4) ALC Operation Check

Step	Mode	Input Signal/Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	REC/ PAUSE	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
2			Set to a level +10 dB above the input level at step 1.		Confirm that the reading is –3.2±2.5dBV.	

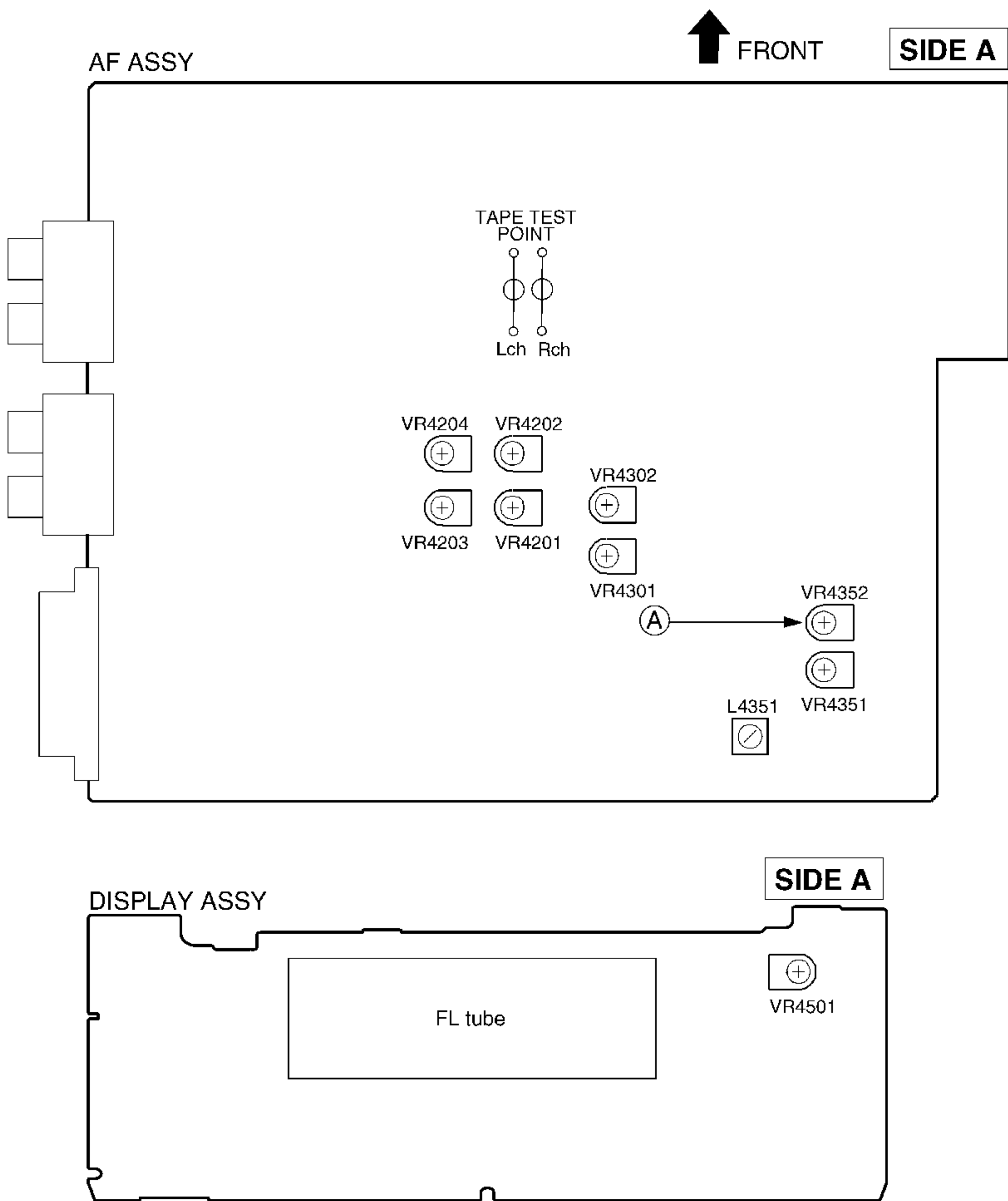


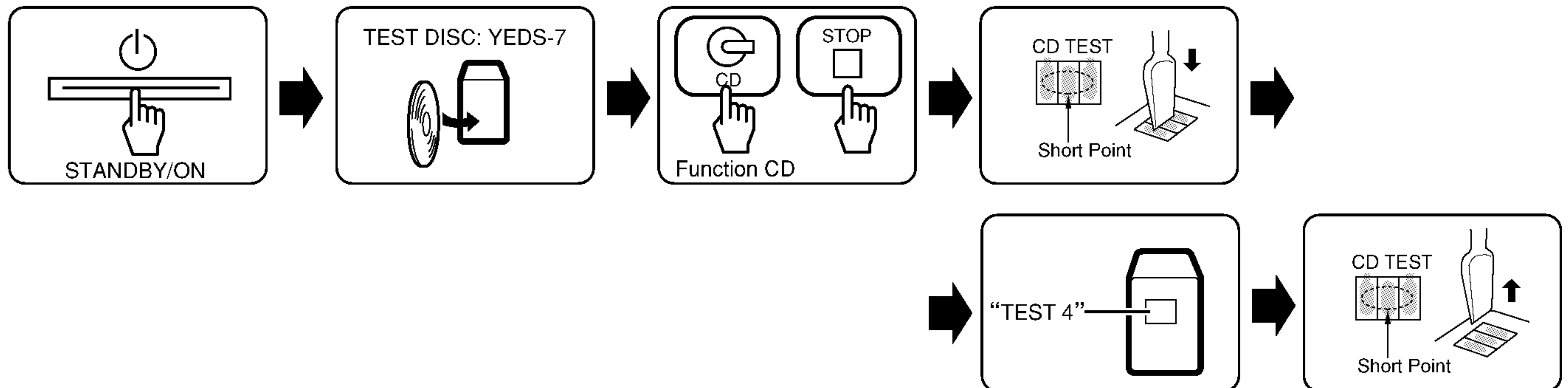
Fig. 2-4 Adjustment and Measurement points

6.3 TEST MODE

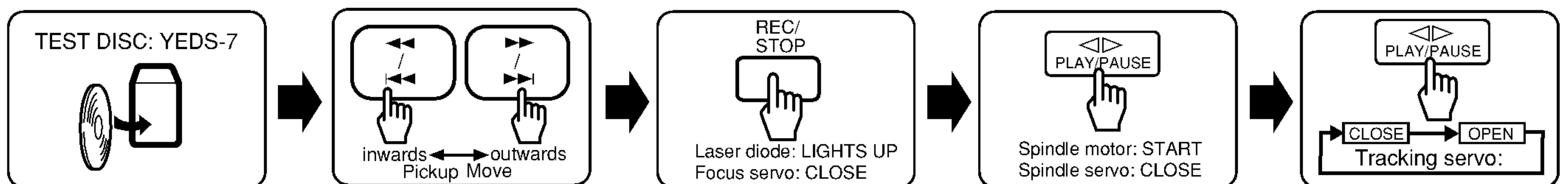
NOTE: There is no information to be shown in this CD adjustment.

■ How to Start/Cancel Test Mode (テストモードの設定/解除)

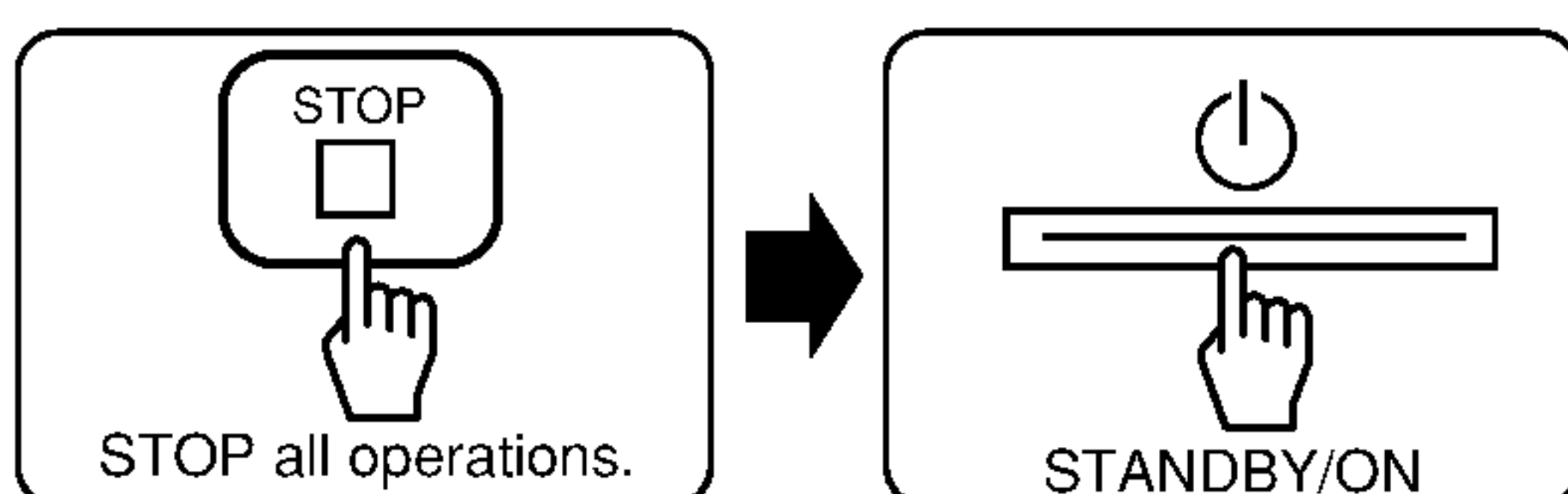
TEST MODE: ON



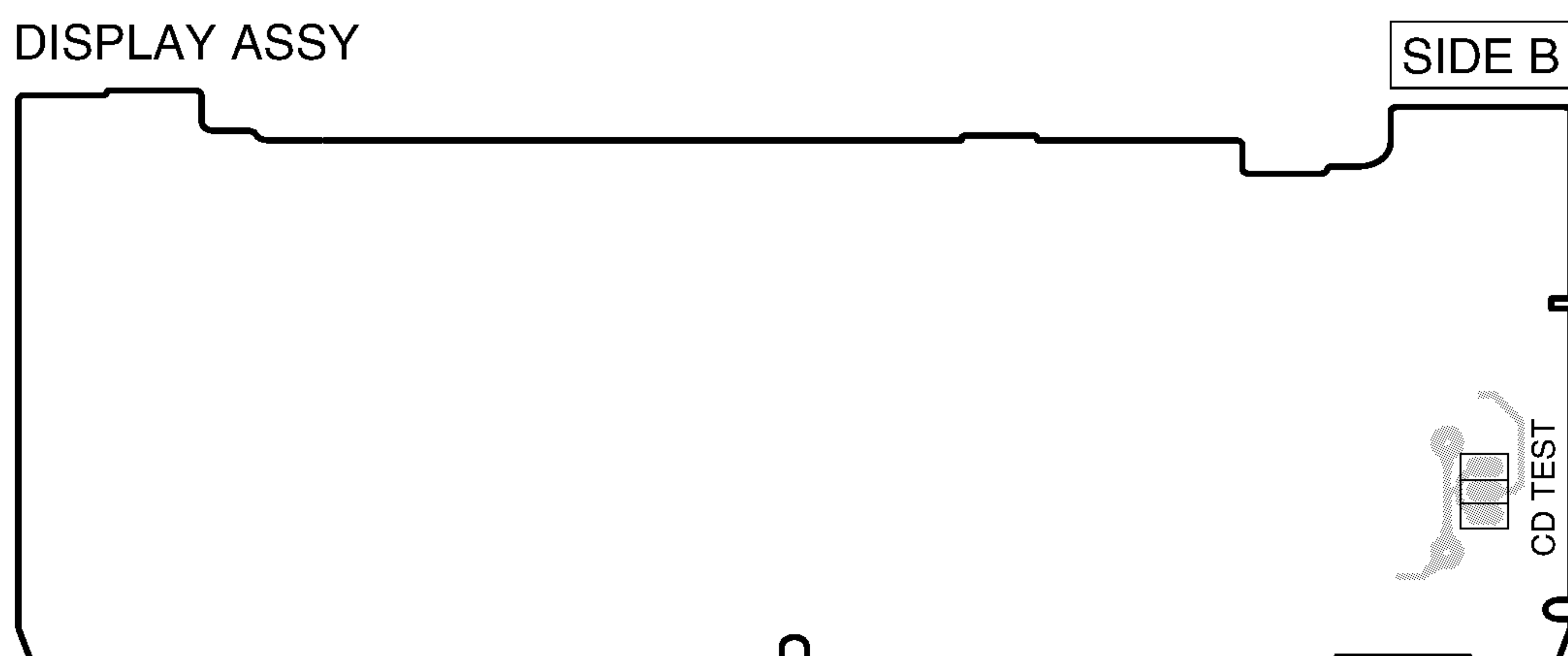
TEST MODE: PLAY



TEST MODE: STOP → CANCEL



■ Test Point (テストポイントの位置)



7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

- PDC040A (IC1901 : DISPLAY ASSY)
- SYSTEM CONTROL MICROCOMPUTER

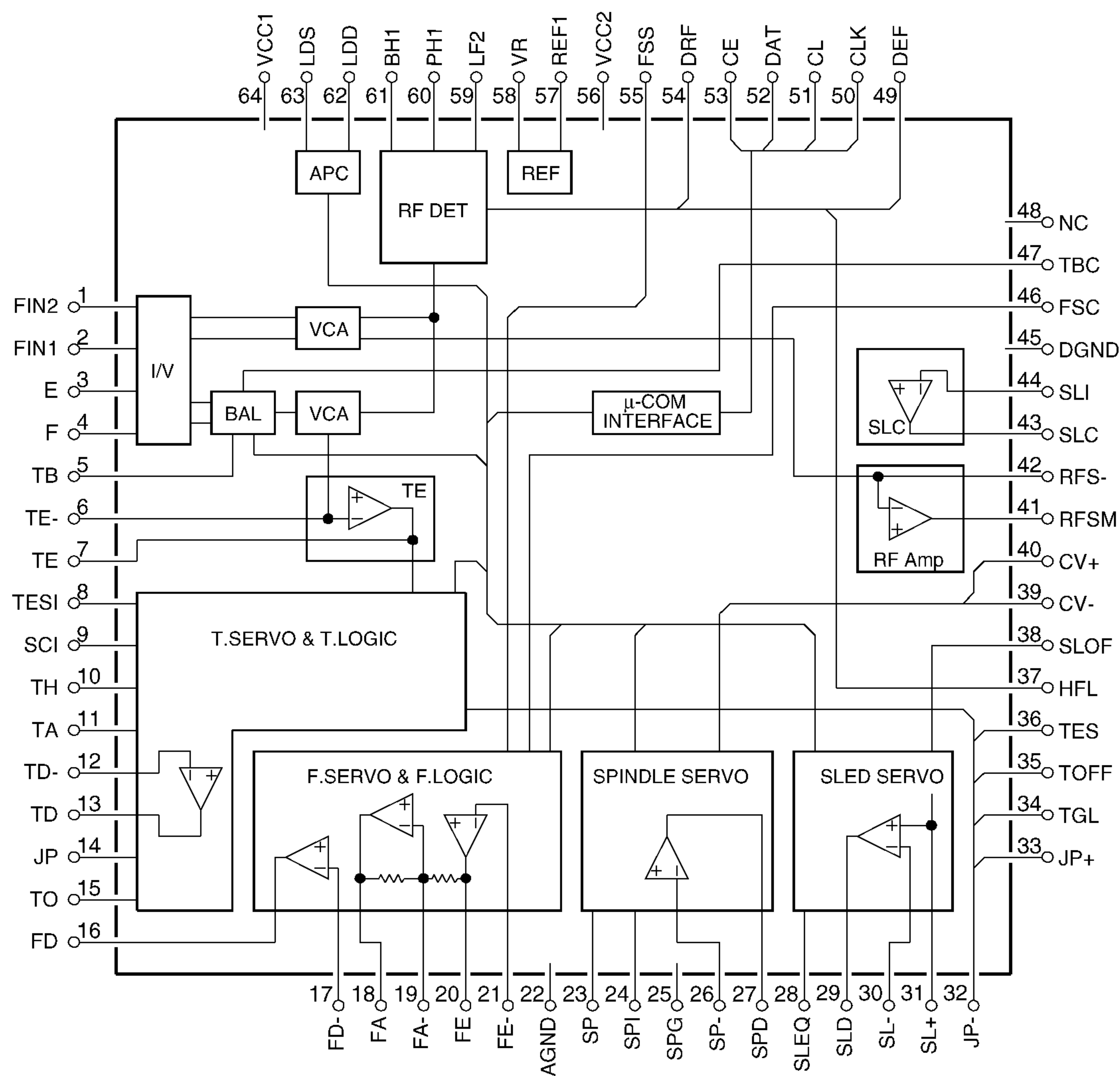
● Pin Function

No.	Name	I/O	Function
1	HSEL	O	VCD module I/F address/data switching output
2		O	Not Used
3	SPA A	O	Spectrum analyzer BA3835 output A
4	SPA B	O	Spectrum analyzer BA3835 output B
5	SPA C	O	Spectrum analyzer BA3835 output C
6	MOTOR	O	DECK mechanism motor control output
7	SOL2	O	DECK 2 mechanism solenoid control output
8	PULSE2	I	DECK 2 mechanism reel pulse input
9	SOL1	O	DECK 1 mechanism solenoid control output
10	PULSE1	I	DECK 1 mechanism reel pulse input
11	AC	I	AC pulse input
12	RESET	I	Microprocessor reset input
13	KSCAN2	I	KEY Scan 2 input
14	KSCAN1	I	KEY Scan 1 input
15	VSS1	I	Microprocessor GND terminal
16	CF1	I	Microprocessor clock input, connection to 6.00 MHz oscillator
17	CF2	O	Microprocessor clock output, 6.00 MHz oscillator connection
18	VDD1	I	Microprocessor positive power terminal +5V
19	MS	I	MS A/D input from tape deck
20	ST/TUNE	I	Tuner STEREO/TUNE identification A/D input
21	JOG(VOL)	I	Volume JOG pulse A/D input
22	KIN3	I	KEY A/D Input 3
23	KIN2	I	KEY A/D Input 2
24	SPA IN	I	Spectrum analyzer BA3835 level A/D input
25	KIN1	I	KEY A/D input 1
26	JOG(MORP)	I	Morphing JOG pulse A/D input
27	CD WRQ	I	CD WRQ interrupt input
28	HINT/RDS CK	I	VCD module HINT interrupt input or RDS clock interrupt input
29	REMOCON	I	Remote controller pulse interrupt input
30	G09	O	FL display control grid output G09
31	G16	O	FL display control grid output G16
32	G15	O	FL display control grid output G15
33	G14	O	FL display control grid output G14
34	G13	O	FL display control grid output G13
35	G12	O	FL display control grid output G12
36	G11	O	FL display control grid output G11
37	G10	O	FL display control grid output G10
38	G01	O	FL display control grid output G01
39	G02	O	FL display control grid output G02
40	G03	O	FL display control grid output G03
41	G04	O	FL display control grid output G04
42	G05	O	FL display control grid output G05
43	G06	O	FL display control grid output G06
44	G07	O	FL display control grid output G07
45	G08	O	FL display control grid output G08
46	VDD2	I	Microprocessor positive power terminal +5V
47	S07	O	FL display control segment output S07
48	S05	O	FL display control segment output S05
49	S06	O	FL display control segment output S06
50	S18	O	FL display control segment output S018
51	VFDP	I	Negative power terminal for FL control terminal
52	S19	O	FL display control segment output S19
53	S20	O	FL display control segment output S20
54	S21	O	FL display control segment output S21
55	S15	O	FL display control segment output S15

56	S04	O	FL display control segment output S04
57	S14	O	FL display control segment output S14
58	S16/K06	O	FL display control segment output S16 or KEY scan output K06
59	S09/K01	O	FL display control segment output S09 or KEY scan output K01
60	S10/K05	O	FL display control segment output S10 or KEY scan output K05
61	S22/K04	O	FL display control segment output S22 or KEY scan output K04
62	S23/K02	O	FL display control segment output S23 or KEY scan output K02
63	S24/K03	O	FL display control segment output S24 or KEY scan output K03
64	S02	O	FL display control segment output S02
65	S01	O	FL display control segment output S01
66	S12	O	FL display control segment output S12
67	S03	O	FL display control segment output S03
68	S13	O	FL display control segment output S13
69	S11	O	FL display control segment output S11
70	S08	O	FL display control segment output S08
71	S17	O	FL display control segment output S17
72	VDD4	I	Microprocessor positive power terminal +5V
73	LED CE	O	LED driver IC BU2092 LCK I/F latch pulse output
74		O	Not Used
75		O	
76		O	
77	4094 CE	O	Port expansion IC BU4094 CE I/F chip enable output
78	PLL CE	O	Tuner module I/F chip enable output
79	P.ON/OFF	O	System power control output
80	VOL CE	O	LC75394 CE chip enable
81	DISC	I	CD mechanism disc position detection SW input
82	INSIDE	I	CD mechanism slider position detection SW input
83	OPEN	I	CD mechanism open/close position detection SW input
84	CLAMP	I	CD mechanism disc clamp detection SW input
85		I	Not Used
86	CD DRF	I	CD RF level detection input
87	HDRY	I	VCD module I/F BUSY input
88	RDS DT	I	RDS data input
89	VSS2	I	Microprocessor GND terminal
90	VDD2	I	Microprocessor positive power terminal
91	CD CE	O	CD I/F chip enable output
92	CD RESET	O	CD reset output
93	CLK	O	Common I/F clock output for tuner module, BU75394, port expansion IC BU4094 and LED driver BU2092
94	DATA	O	Common I/F data output for tuner module, BU75394, port expansion IC BU4094 and LED driver BU2092
95	TX DATA	I	Tuner module I/F data input
96	HDIO	I/O	VCD module I/F data input/output
97	HCK	O	VCD module I/F clock output
98	CD DATA	O	CD I/F data output
99	SQ OUT	I	CD I/F data input
100	CD CLK	O	CD I/F clock output

XR-A600,XR-A500,XR-A500EE

- LA9240ML (IC8101 : CD ASSY)
- SERVO SIGNAL PROCESSOR IC FOR CD PLAYER
- Block Diagram



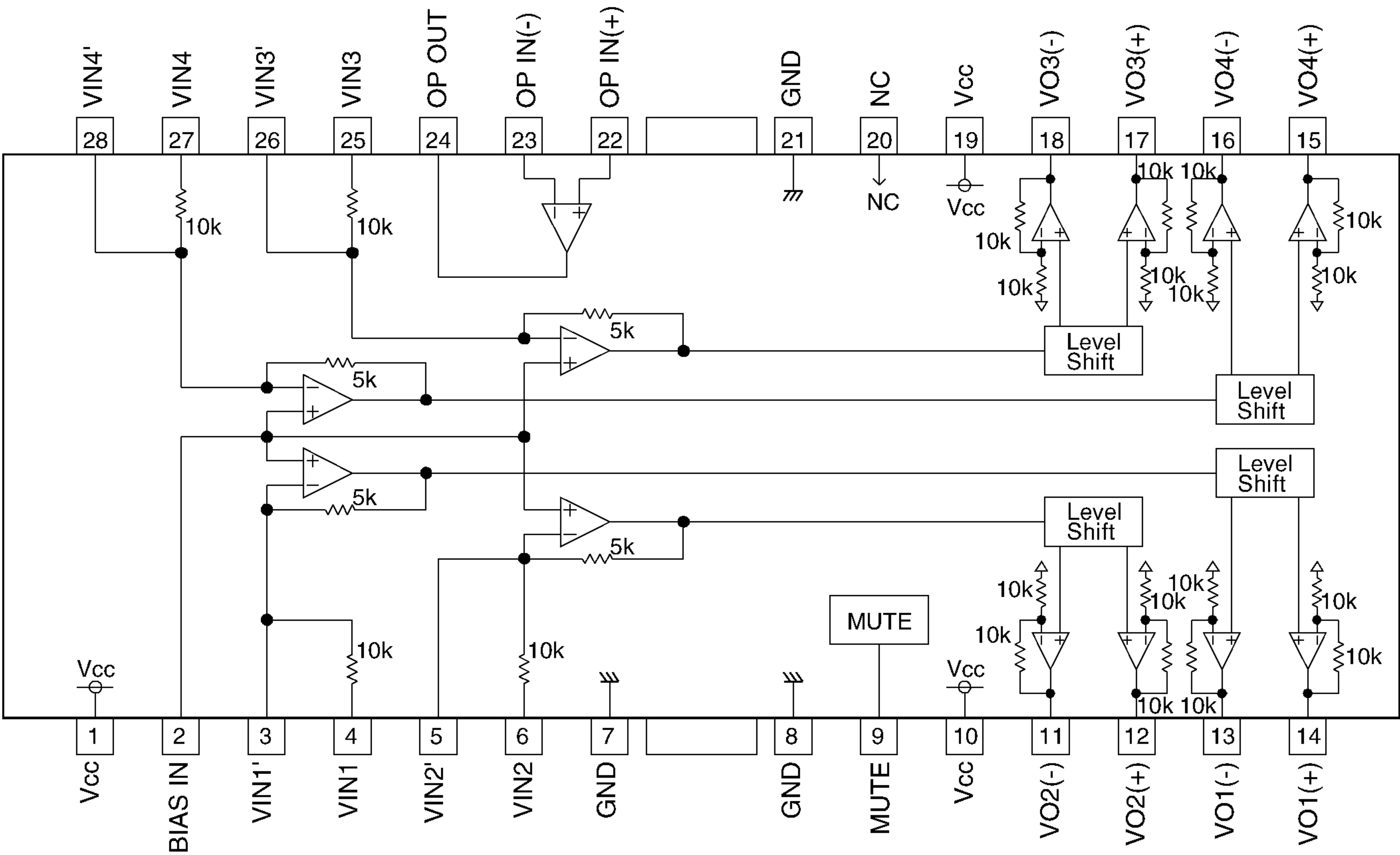
● Pin Function

No.	Name	I/O	Function
1	FIN2	I	Pin for connection of the photodiode of the pickup. Generates RF signal by addition with the FIN1 pin, and FE signal by subtraction.
2	FIN1	I	Pin for connection of the photodiode of the pickup.
3	E	I	Pin for connection of the photodiode of the pickup. Generates TE signal by subtraction with the F pin.
4	F	I	Pin for connection of the photodiode of the pickup.
5	TB	I	Pin for DC component input of TE signal.
6	TE-	I	Pin to connect resistance for gain setting of TE signal between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES (Track Error Sense) comparator input pin. Passes and inputs TE signal through the band-pass filter.
9	SCI	I	Input pin for shock detection.
10	TH	I	Pin for setting tracking gain time constant.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to form the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Pin for setting tracking phase compensation.
14	JP	I	Pin for setting tracking jump signal (kick pulse) amplitude.

No.	Name	I/O	Function
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to form the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Pin to form the focusing phase compensation constant between the FD- and FA- pins.
19	FA-	I	Pin to form the focusing phase compensation constant between the FA and FE pins.
20	FE	O	Output pin of FE signal.
21	FE-	I	Pin to connect the resistance for gain setting of FE signal between the FE pin.
22	AGND	-	GND for analog signal.
23	SP	O	Single end output of CV+/CV- pin input signal.
24	SPI	I	Spindle amplifier input.
25	SPG	I	Resistance connection pin for gain setting in 12-cm mode for spindle.
26	SP-	I	Pin for connection of spindle phase compensation constant, as well as with the SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin for connection of thread phase compensation constant.
29	SLD	O	Thread control signal output pin.
30	SL-	I	Pin to input thread feeding signal from the microprocessor.
31	SL+	I	Pin to input thread feeding signal from the microprocessor.
32	JP+	I	Pin to input tracking jump signal from DSP.
33	JP+	I	Pin to input tracking jump signal from DSP.
34	TGL	I	Pin to input tracking gain control signal from DSP. Tracking is set to gain low when TGL is "H".
35	TOFF	I	Pin to input tracking OFF control signal from DSP. Tracking is OFF when TOFF is "H".
36	TES	O	Pin to output TES signal to DSP.
37	HFL	I	High Frequency Level to be used for judgment whether the phase of the main beam is on the bit or mirror.
38	SLOF	I	Thread servo OFF control input pin.
39	CV-	I	Pin to input CLV error signal from DSP.
40	CV+	I	Pin to input CLV error signal from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	Pin for RF gain setting and EFM signal 3T compensation constant setting, as well as with the RFSM pin.
43	SLC	O	Slice Level Control. Output pin to control the level of data slice by DSP of RF waveforms.
44	SLI	I	Input pin to control the level of data slice by DSP.
45	DGND	-	GND pin of the digital system.
46	FSC	O	Output pin for focus search smoothing capacitor.
47	TBC	I	Tracking Balance Control. Pin to set EF balance variable range.
48	NC	-	No Connect.
49	DEF	O	Pin to output defect detection of disc.
50	CLK	I	Reference clock input pin. Frequency of 4.23MHz is input from DSP.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	Detect RF. RF level detection output.
55	FSS	I	Focus Search Select. Pin to switch focus search mode (switching between -search and +search for the reference voltage).
56	VCC2	-	VCC pin for the servo and digital systems.
57	REFI	I	Pin for connection of reference voltage bypass capacitor.
58	VR	O	Reference voltage output pin.
59	LF2	I	Pin for setting defect detection time constant of disc.
60	PH1	I	Pin to connect capacitor for peak hold of RF signal.
61	BH1	I	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	-	VCC pin for the RF system.

XR-A600,XR-A500,XR-A500EE

- BA5923FP (IC8201 : CD ASSY)
- POWER DRIVER IC FOR CD PLAYER
- Block Diagram



● Pin Function

No.	Name	I/O	Function
1	Vcc	-	Vcc
2	BIAS IN	I	Bias amplifier input.
3	VIN1'	I	Driver CH1 input, gain adjustment pin.
4	VIN1	I	Driver CH1 input.
5	VIN2'	I	Driver CH2 input, gain adjustment pin.
6	VIN2	I	Driver CH2 input.
7	GND	-	Substrate Ground.
8	GND	-	Ground
9	MUTE	I	Driver mute control input.
10	Vcc	-	Vcc
11	VO2 (-)	O	Driver CH2 inverted output.
12	VO2 (+)	O	Driver CH2 noninverted output.
13	VO1 (-)	O	Driver CH1 inverted output.
14	VO1 (+)	O	Driver CH1 noninverted output.

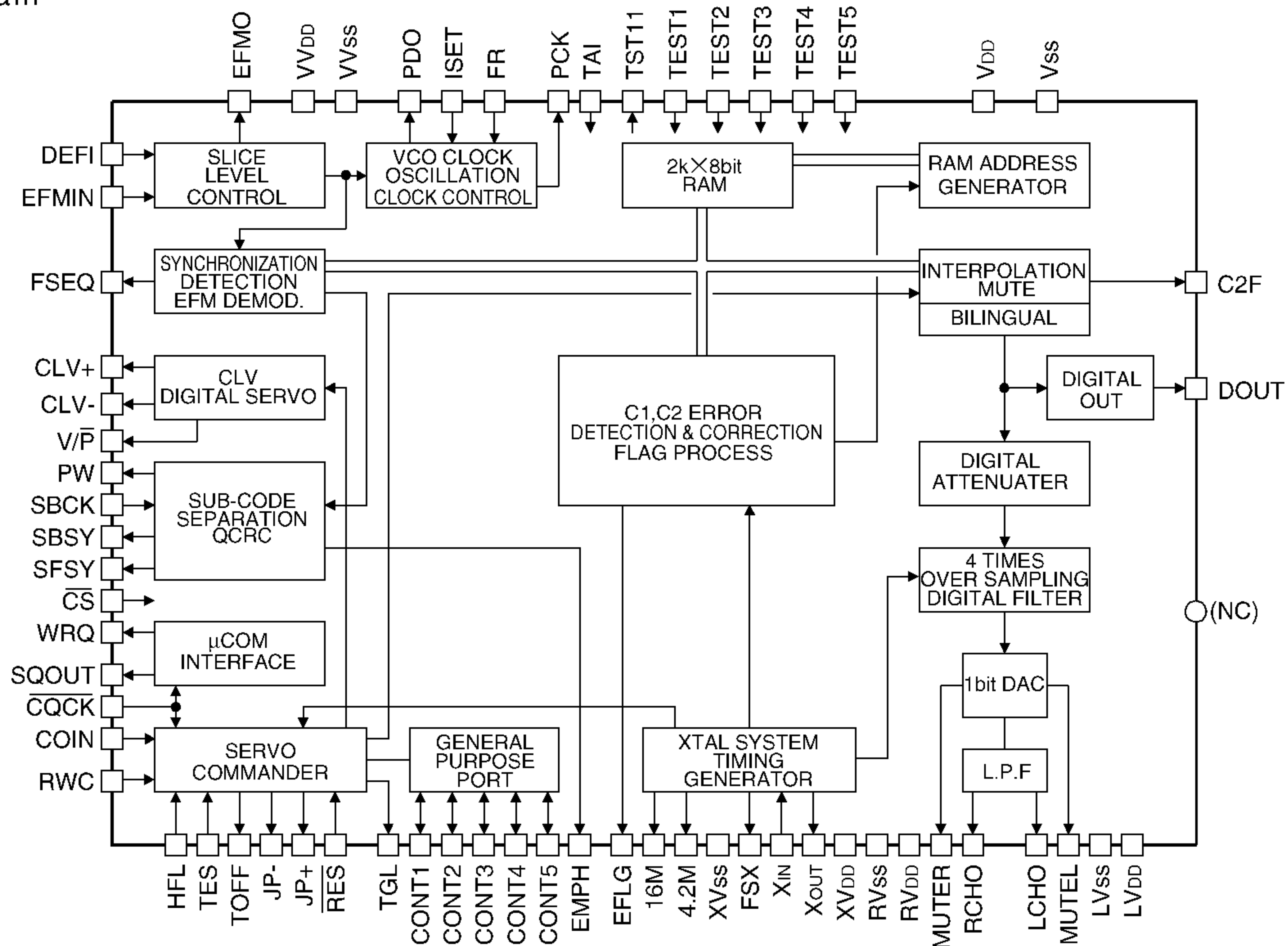
No.	Name	I/O	Function
15	VO4 (+)	O	Driver CH4 noninverted output.
16	VO4 (-)	O	Driver CH4 inverted output.
17	VO3 (+)	O	Driver CH3 noninverted output.
18	VO3 (-)	O	Driver CH3 inverted output.
19	Vcc	-	Vcc
20	NC	-	
21	GND	-	Substrate Ground.
22	OP IN (+)	I	Op-amp input, positive.
23	OP IN (-)	I	Op-amp input, negative.
24	OP OUT	O	Op-amp output.
25	VIN3	I	Driver CH3 input.
26	VIN3'	I	Driver CH3 input, gain adjustment pin.
27	VIN4	I	Driver CH4 input.
28	VIN4'	I	Driver CH4 input, gain adjustment pin.

Note) Symbol of+ and - (output of DRIVERS) means polarity to input pin.
(For example if voltage of pin4 is high, pin14 is high.)

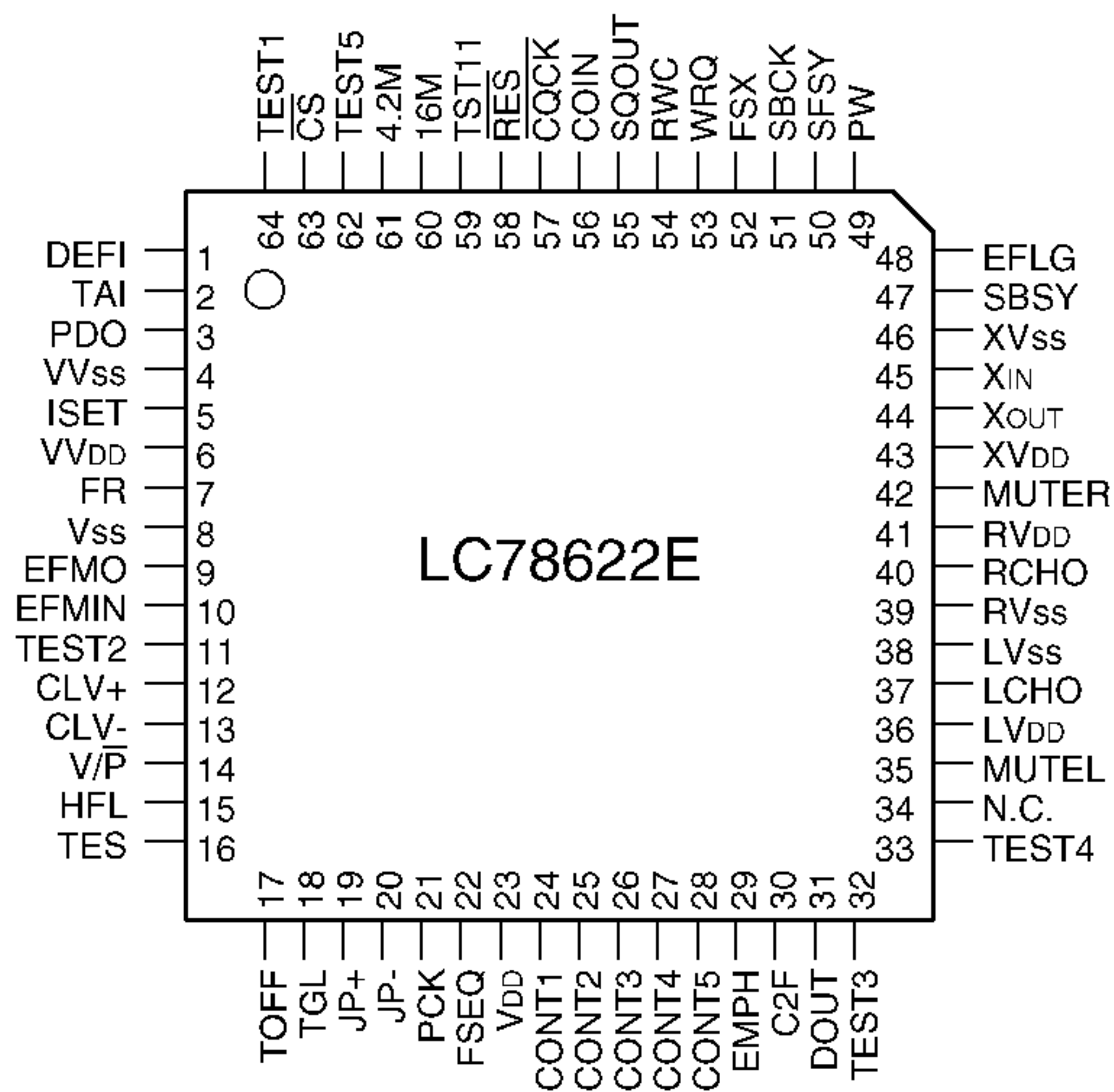
■ LC78622ED (IC8301 : CD ASSY)

● SIGNAL PROCESSOR AND SERVO CONTROL IC FOR CD PLAYER

● Block Diagram



● Pin Assignment



● Pin Function

No.	Name	I/O	Function	
1	DEFI	I	Defect detection signal (DEF) input. (Must be connected to 0V when unused).	
2	TAI	I	PLL pins	Test input. A pull-down resistor is built-in. Must be connected to 0V.
3	PDO	O		External VCO control phase comparator output.
4	VVss	-		Internal VCO ground. Must be connected to 0V.
5	ISET	AI		PDO output current adjustment resistor connection.
6	VVDD	-		Internal VCO power supply.
7	FR	AI		VCO frequency range adjustment.
8	Vss	-	Digital system ground. Must be connected to 0V.	
9	EFMO	O	Since level control	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.

XR-A600,XR-A500,XR-A500EE

● Pin Function

No.	Name	I/O	Function	
11	TEST2	I	Test pin. A pull-down resistor is built-in. Must be connected to 0V.	
12	CLV+	O	Disc motor control output. Can be set to 3-value output by microprocessor command.	
13	CLV-	O	Three-value output is also possible when specified microprocessor command.	
14	V/P	O	Rough servo/phase control automatic switching monitor output. Outputs a high during rough servo and a low level.	
15	HFL	I	Track detection signal input. This is a Schmitt input.	
16	TES	I	Tracking error signal input. This is a Schmitt input.	
17	TOFF	O	Tracking off output.	
18	TGL	O	Tracking gain switching output. Increase the gain when low.	
19	JP+	O	Track jump output.	
20	JP-	O	Three-value output is also possible when specified by microprocessor command.	
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218MHz when the phase command.	
22	FSEQ	O	Synchronization signal detection output. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal range.	
23	VDD	-	Digital system power supply.	
24	CONT1	I/O	General-purpose 1.	Controlled by serial data commands from the microprocessor. Any of these that are unused must be either set up as input ports and connected to 0V. or set up as output ports and left open.
25	CONT2	I/O	General-purpose 2.	
26	CONT3	I/O	General-purpose 3.	
27	CONT4	I/O	General-purpose 4.	
28	CONT5	I/O	General-purpose 5.	
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disc.	
30	C2F	O	C2 flag output.	
31	DOUT	O	Digital ouput. (EIAJ format)	
32	TEST3	I	Test input. A pull-down resistor is built-in. Must be connected to 0V.	
33	TEST4	I	Test input. A pull-down resistor is built-in. Must be connected to 0V.	
34	N.C.	-	Unused. Must be left open.	
35	MUTEL	O	Left channel one-bit D/A converter	Left channel mute output.
36	LVDD	-		Left channel power supply.
37	LCHO	O		Left channel output.
38	LVss	-		Left channel ground. Must be connected to 0V.
39	RVss	-	Right channel one-bit D/A converter	Right channel ground. Must be connected to 0V.
40	RCHO	O		Right channel output.
41	RVDD	-		Right channel power supply.
42	MUTER	O		Right channel mute output.
43	XVDD	-	Crystal oscillator power supply.	
44	XOUT	O	Connections for a 16.9344 crystal oscillator element.	
45	XIN	I		
46	XVss	-	Crystal oscillator ground. Must be connected to 0V.	
47	SBSY	O	Subcode block synchronization signal.	
48	EFLG	O	C1, C2, signal and double error correction monitor pin.	
49	PW	O	Subcode P, Q, R, S, T, U and W output.	
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcodes are in the standby state.	
51	SBCK	I	Subcode readout clock input. This is a Schmitt input. (Must be connected to 0V when unused).	
52	FSX	O	Output for the 7.35kHz synchronization signal divided from crystal oscillator.	
53	WRQ	O	Subcode Q output standby output.	
54	RWC	I	Read/write control input. This is a Schmitt input.	
55	SQOUT	O	Subcode Q output.	
56	COIN	I	Command input from the control microprocessor.	
57	CQCK	I	input for both the command input acquisition clock and the SQOUT pin subcode readout clock input. This is a Schmitt input.	
58	RES	I	Chip reset input. This pin must be set low briefly after power is first applied.	
59	TST11	O	Test output. Leave open. (Normaly outputs a low level).	
60	16M	O	16.9344MHz output.	
61	4.2M	O	4.2336MHz output.	
62	TEST5	I	Test input. A pull-down resistor is built-in. Must be connected to 0V.	
63	CS	I	Chip select input. A pull-down resistor is built in. Must be connected to 0V if not controlled.	
64	TEST1	I	Test input. A pull-down resistor is built-in. Must be connected to 0V.	

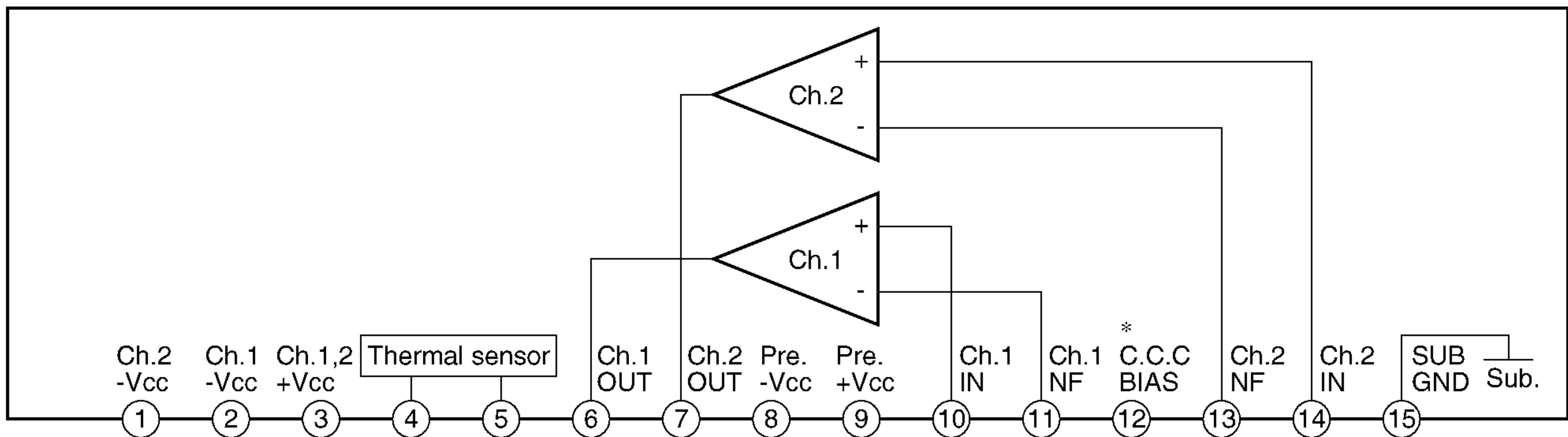
■ STK407-070 (IC1201 : POWER ASSY, XR-A600 ONLY)

■ STK407-050 (IC1201 : POWER ASSY, XR-A500 AND XR-A500EE ONLY)

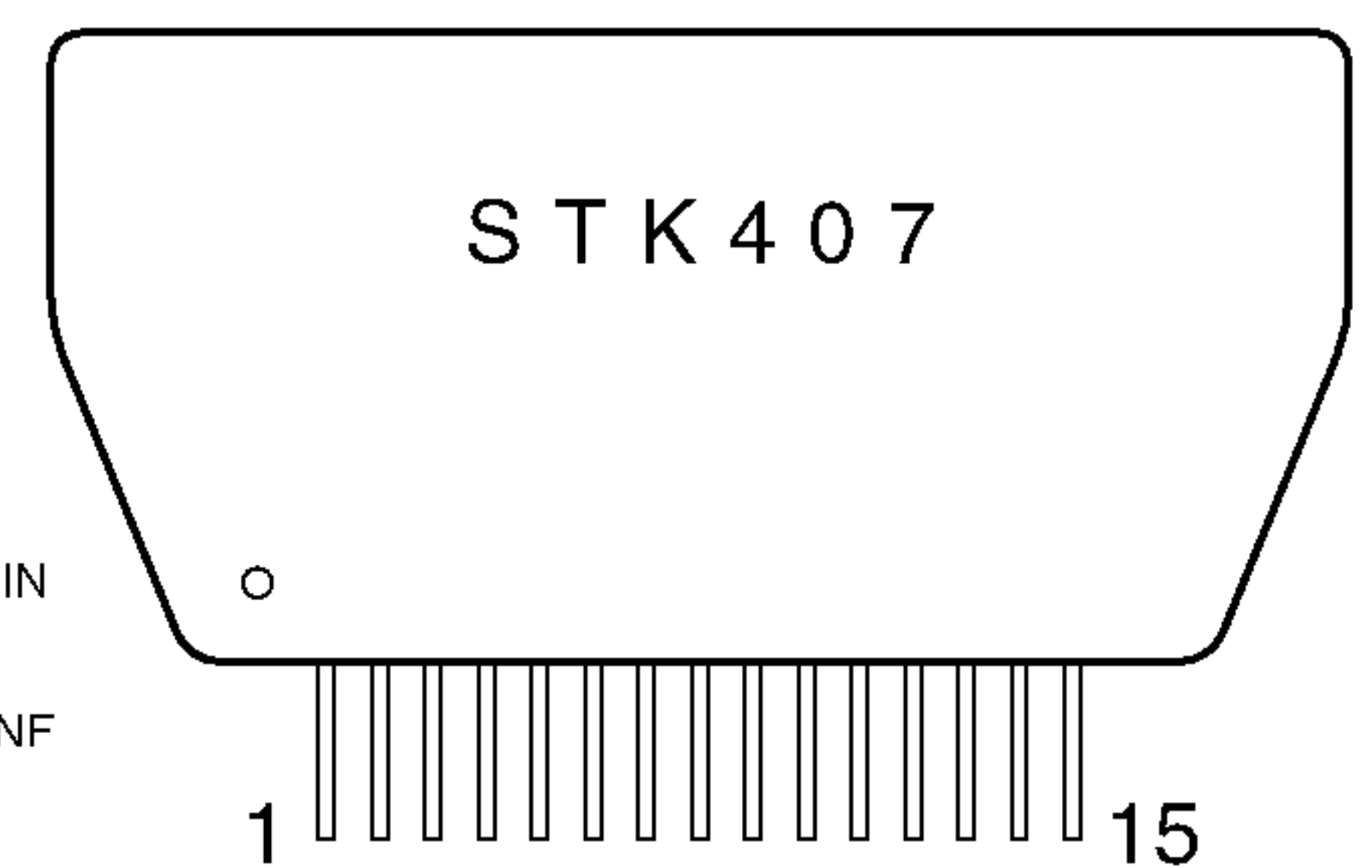
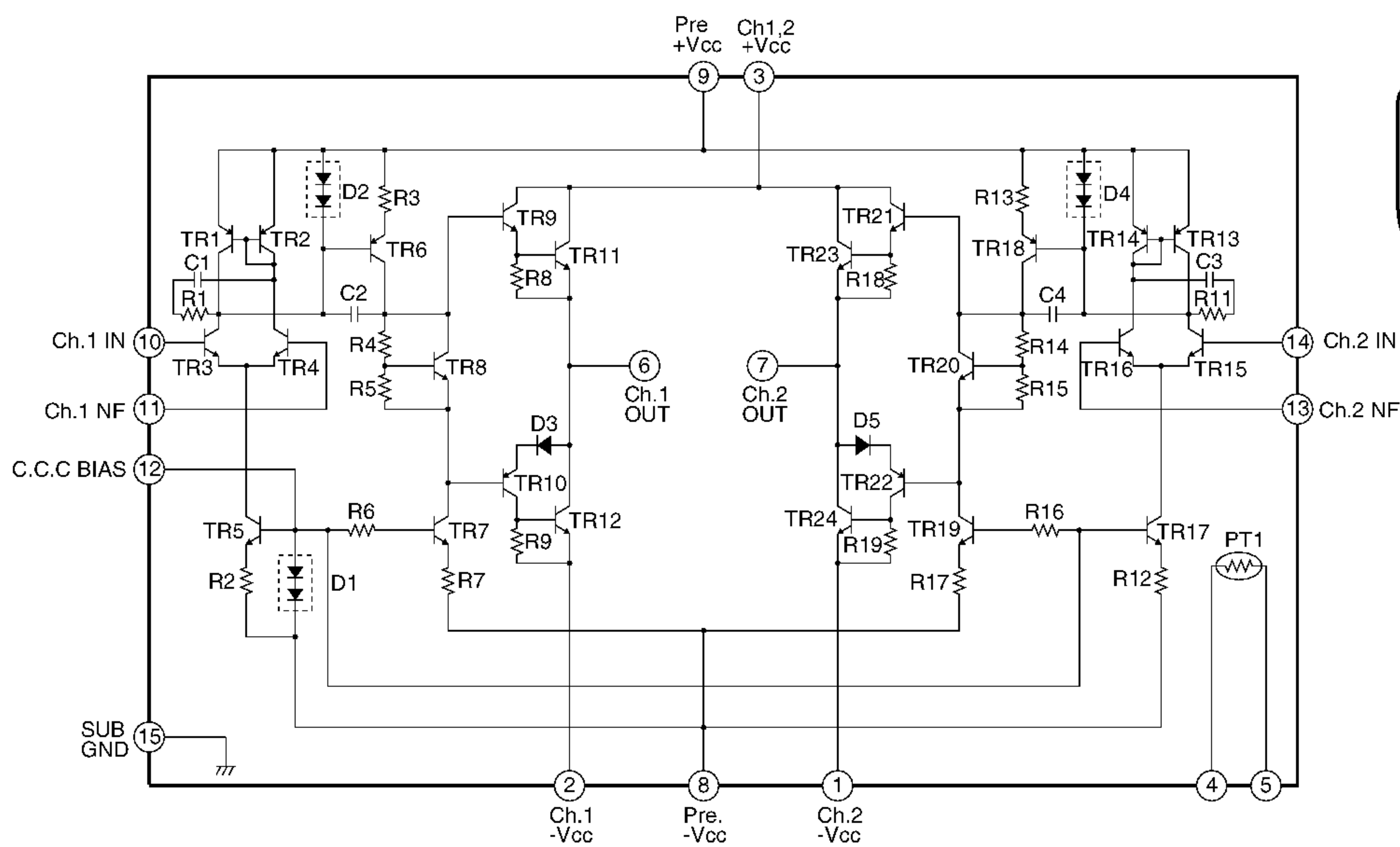
● 2 CHANNEL AF POWER AMP

● Block Diagram

* C.C.C. : CONSTANT CURRENT CIRCUIT



● Pin Assignment

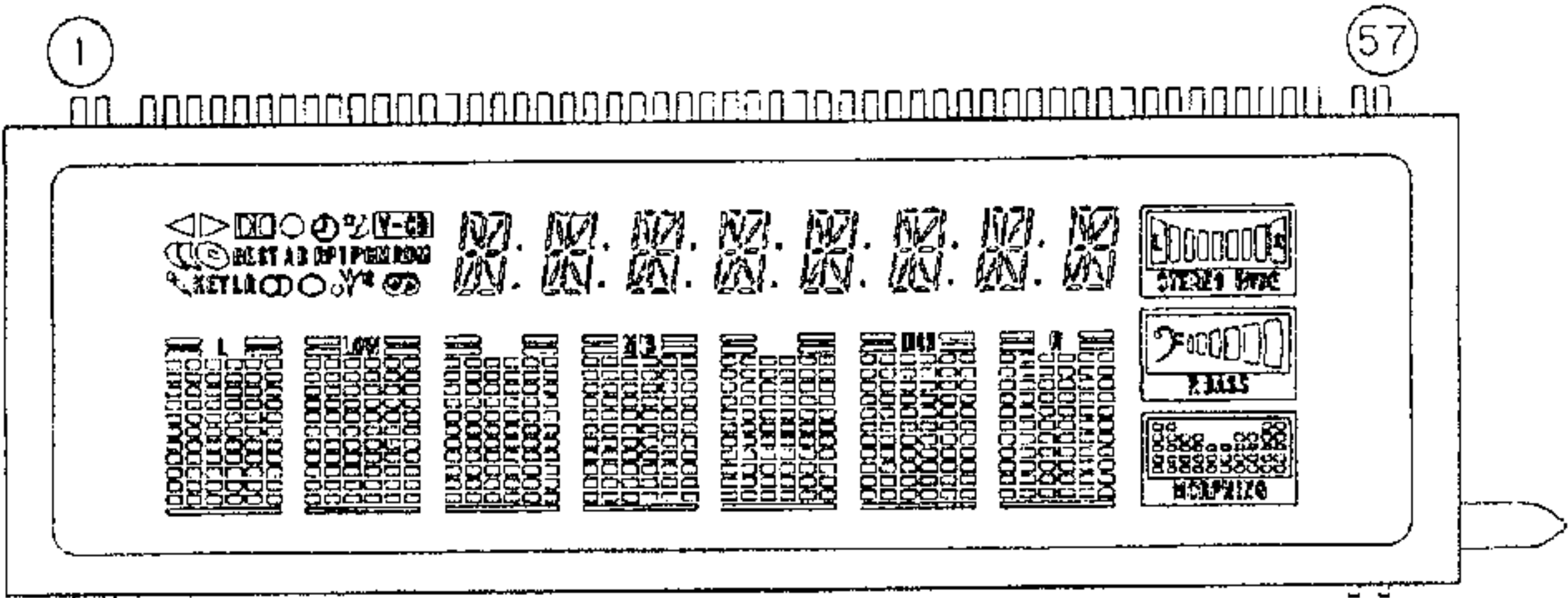


XR-A600,XR-A500,XR-A500EE

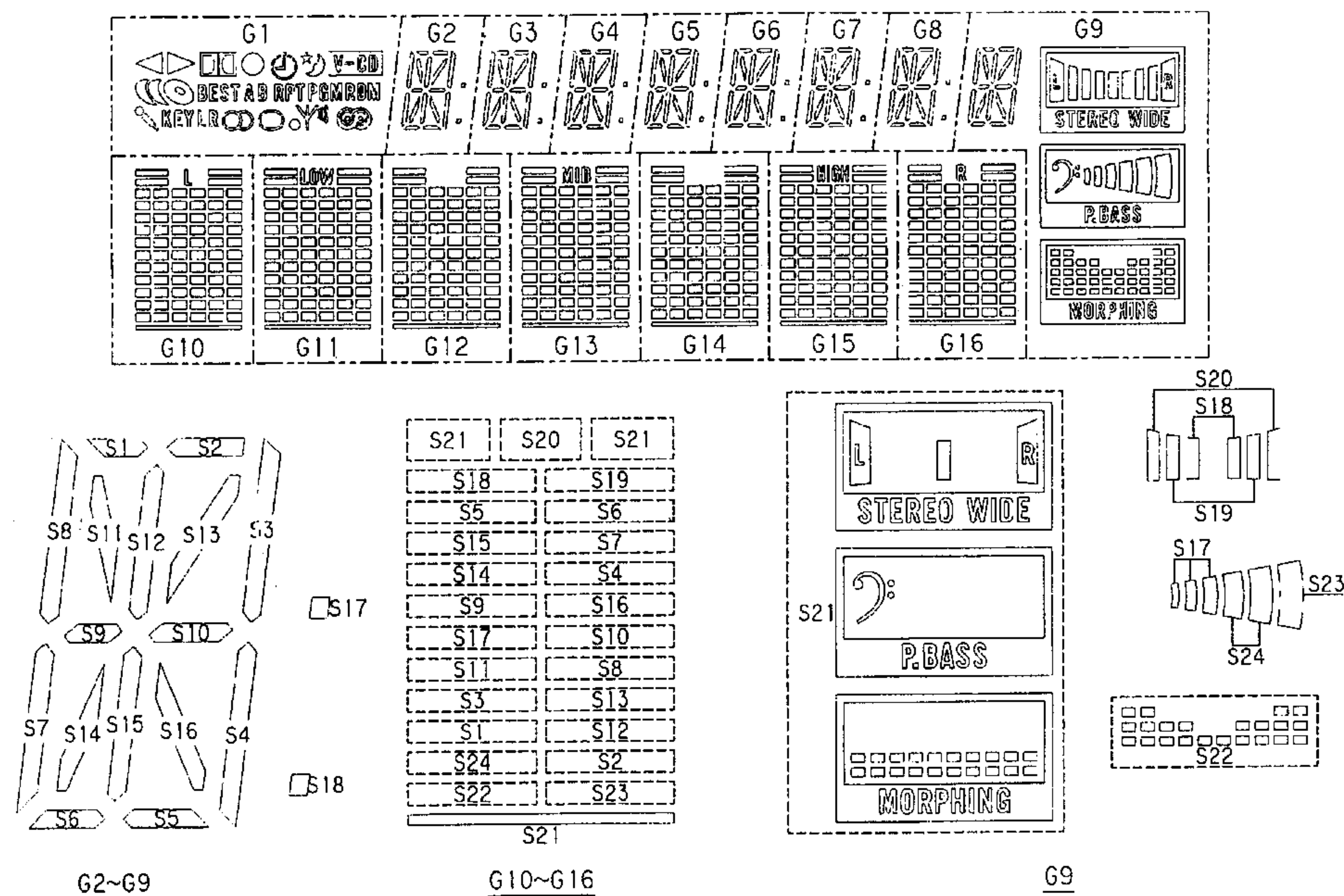
7.1.2 DISPLAY

■ AAV7044 (V1901 : DISPLAY ASSY)

- FL TUBE
- Pin Assignment



- Anode and Grid Assignment



	G1	G2~G8	G9	GA	GB
S1	S1	S1	S1	S1	S1
S2	S2	S2	S2	S2	S2
S3	S3	S3	S3	S3	S3
S4	S4	S4	S4	S4	S4
S5	S5	S5	S5	S5	S5
S6	S6	S6	S6	S6	S6
S7	S7	S7	S7	S7	S7
S8	S8	S8	S8	S8	S8
S9	S9	S9	S9	S9	S9
S10	S10	S10	S10	S10	S10
S11	S11	S11	S11	S11	S11
S12	S12	S12	S12	S12	S12
S13	S13	S13	S13	S13	S13
S14	S14	S14	S14	S14	S14
S15	S15	S15	S15	S15	S15
S16	S16	S16	S16	S16	S16
S17	S17	S17	S17	S17	S17
S18	S18	S18	S18	S18	S18
S19	S19	S19	S19	S19	S19
S20	S20	S20	S20	S20	S20
S21	S21	S21	S21	S21	S21
S22	S22	S22	S22	S22	S22
S23	S23	S23	S23	S23	S23
S24	S24	S24	S24	S24	S24

S22	S23	S12	S2	S3	S1	S24
<	>	□	○	⌚	☆	V-CD
S14	S13	S11	S8	S9	S17	S10
⌚	⌚	BEST AB	RPT	PGM	RDM	
S20	S21	S19	S5	S15	S7	S4
⌚	KEY LR	⌚	⌚	⌚	⌚	⌚
	S6			S18		

G1

- 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
Ass gnment	F1	F1	NP	NL	G9	G16	G15	G14	G13	G12	G11	G10	G1	G2	G3	G4	G5	G6	G7	G8	S7	S5	S6

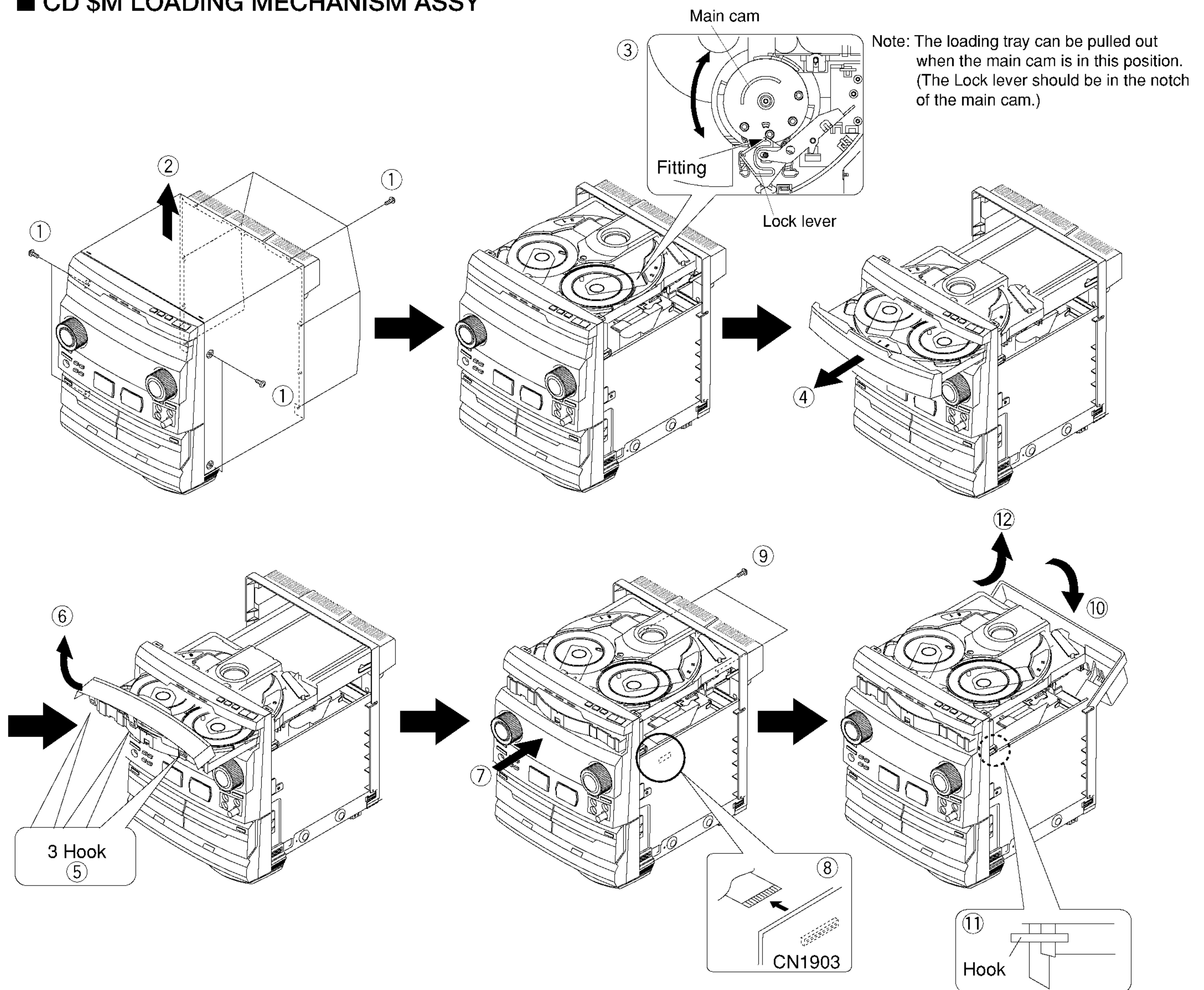
Pin No.	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Assignment	S18	S19	S20	S21	NL	NL	NL	NL	NL	NL	NL	NL	S15	S4	S14	S16	S9	S10	S22	S23	S24	S2	S1

Pin No.	47	48	49	50	51	52	53	54	55	56	57
Assignment	S12	S3	S13	S11	S8	S17	NL	NL	NP	F2	F2

7.2 DIAGNOSIS

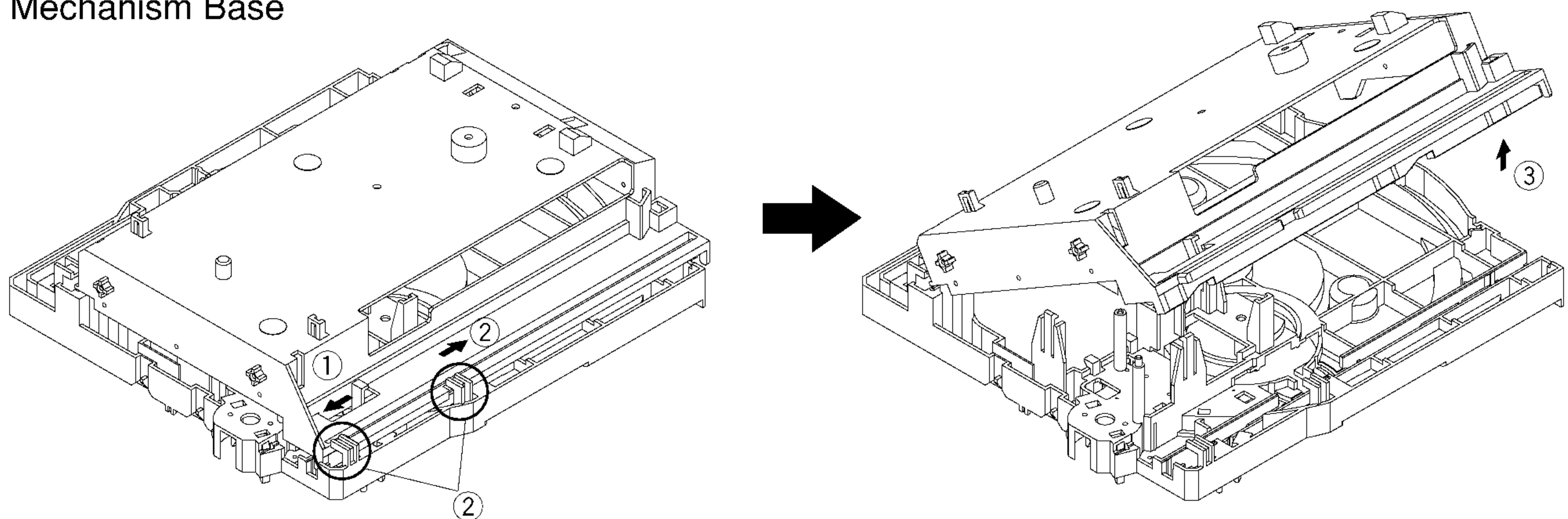
7.2.1 DISASSEMBLY

■ CD \$M LOADING MECHANISM ASSY



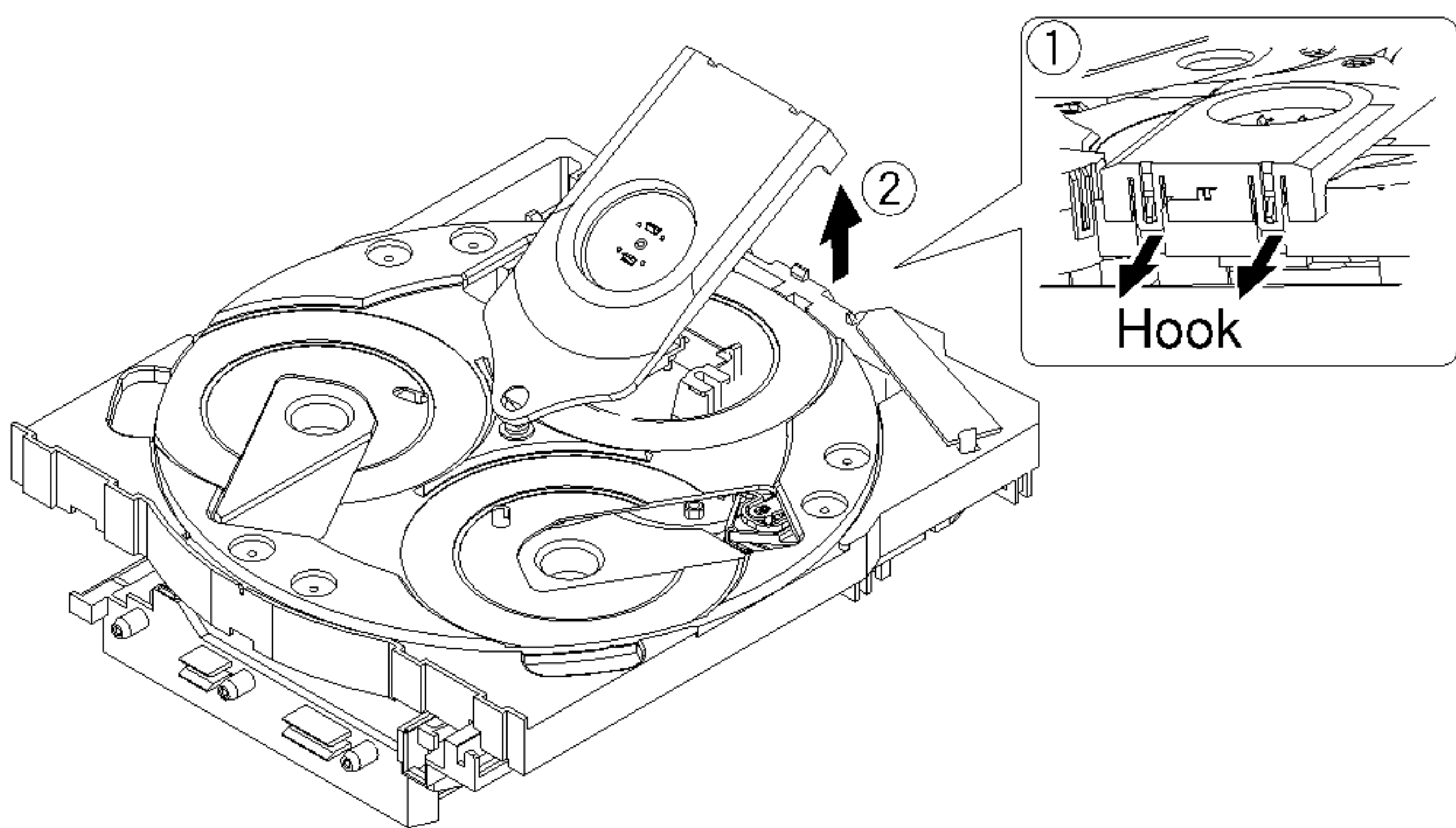
■ CD \$M LOADING MECHANISM ASSY ADDITIONAL TO JOB

● Mechanism Base

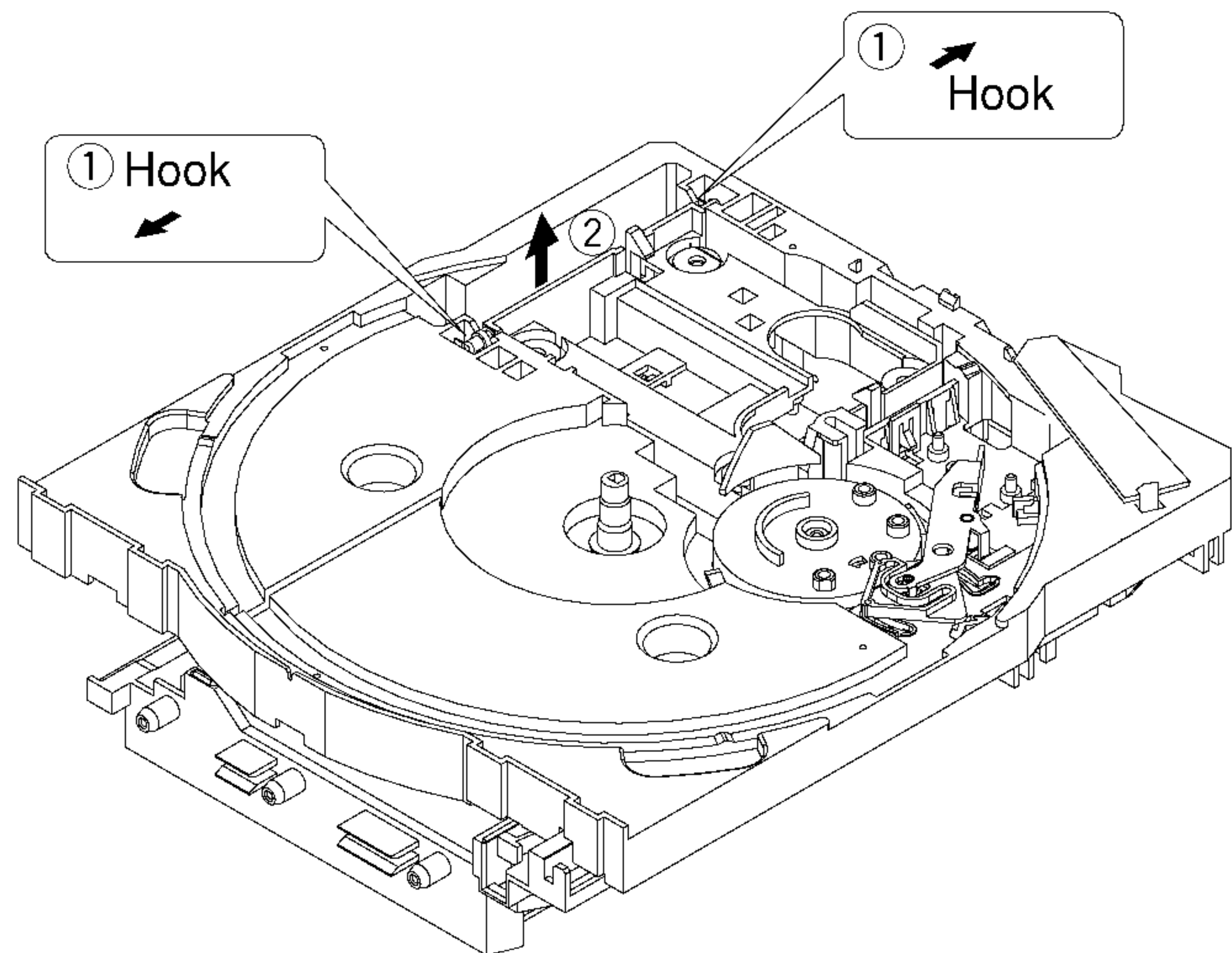


XR-A600,XR-A500,XR-A500EE

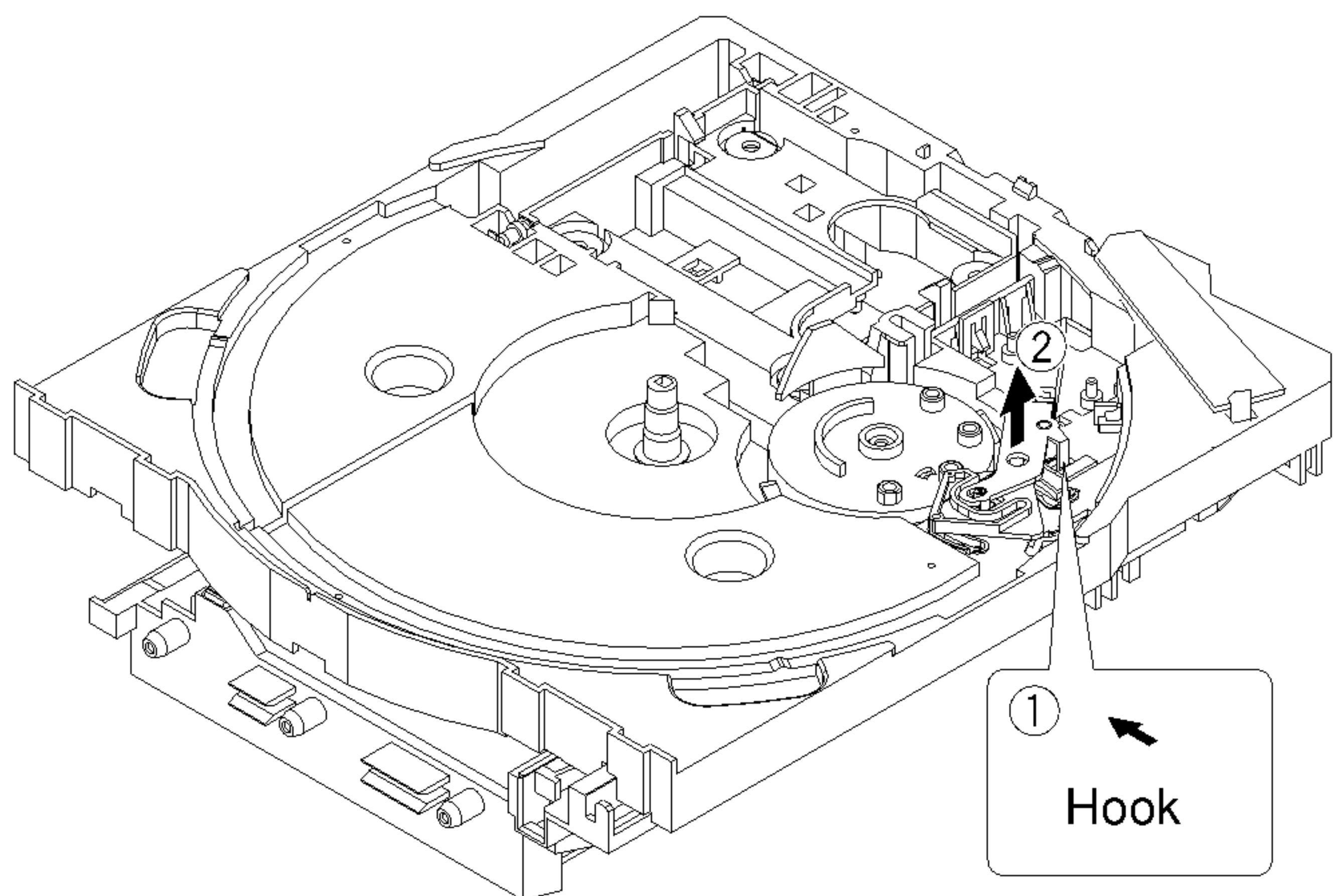
● Clamper Holder



● Servo Base

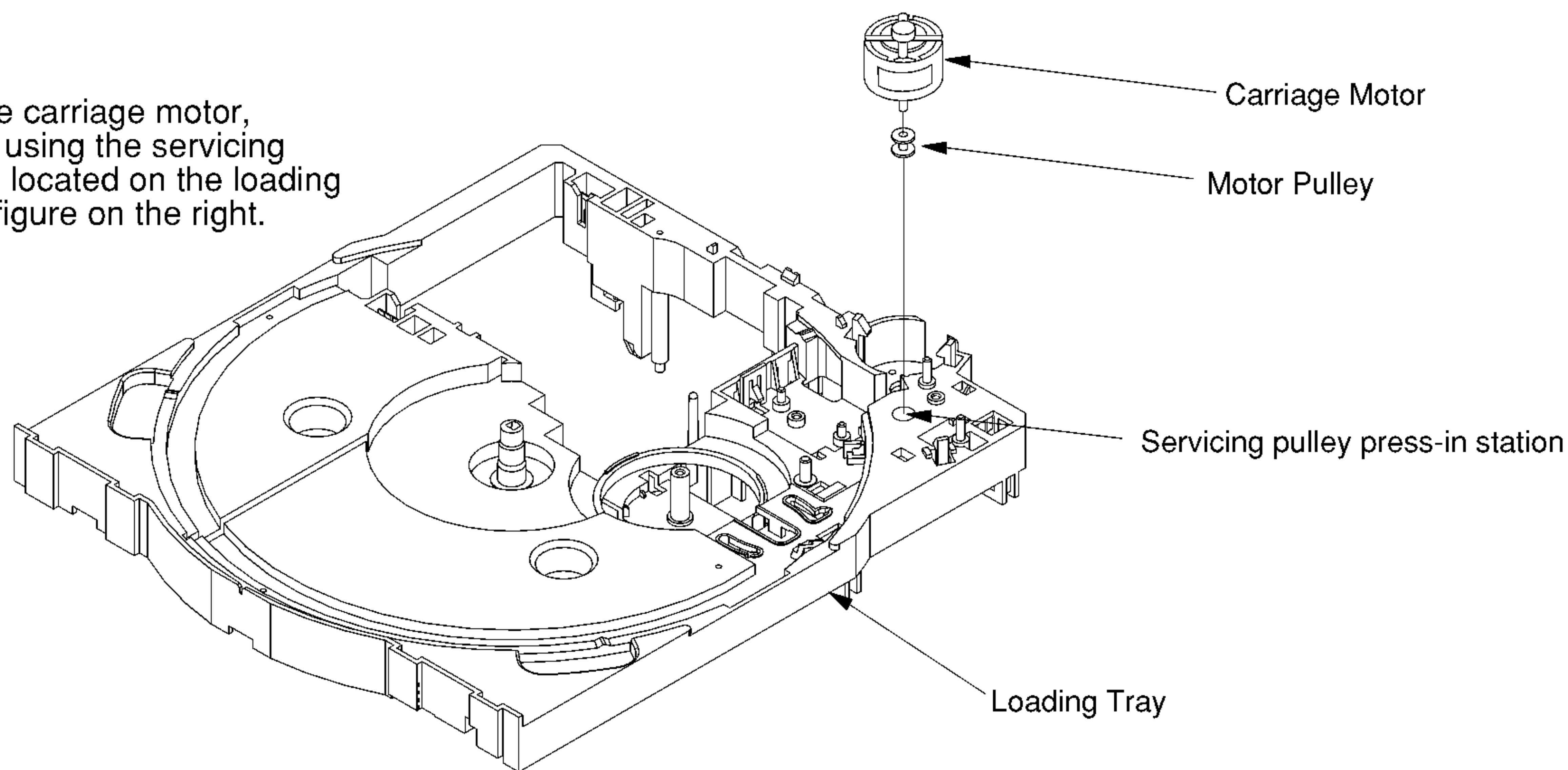


● Actuator



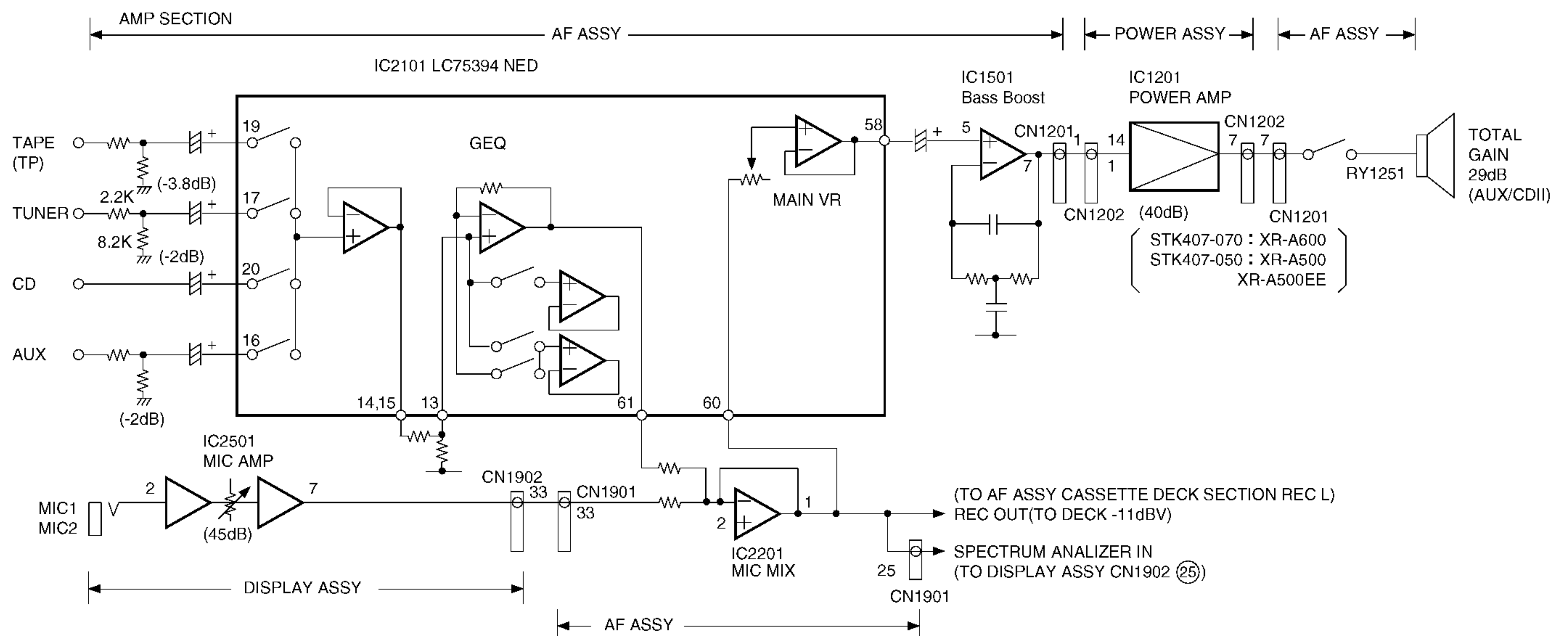
■ FITTING THE PULLEY INTO THE CARRIAGE MOTOR

For replacement of the carriage motor, fit the motor pulley by using the servicing pulley press-in station located on the loading tray, as shown in the figure on the right.

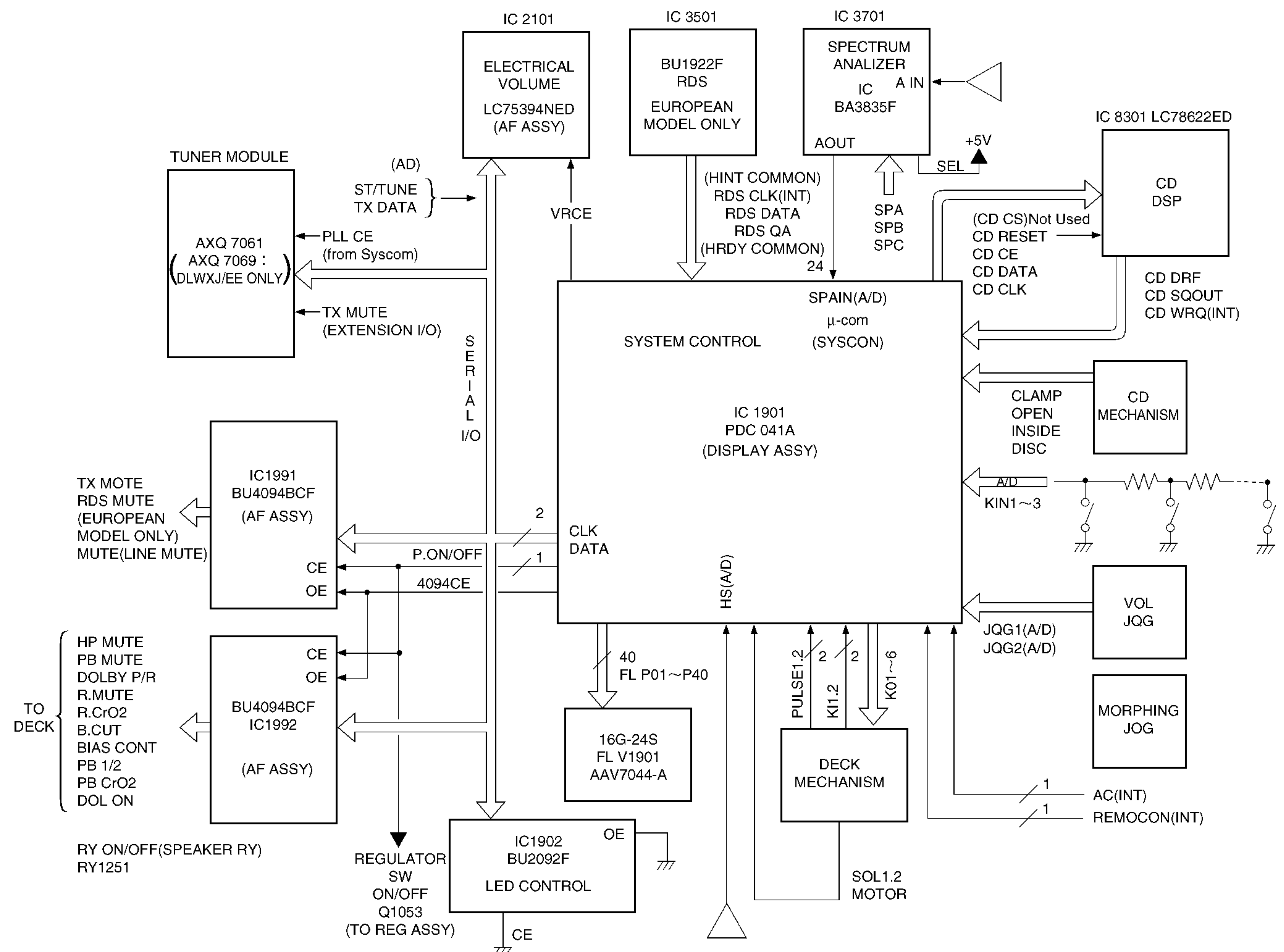


7.3 BLOCK DIAGRAM

7.3.1 OVERALL DIAGRAM

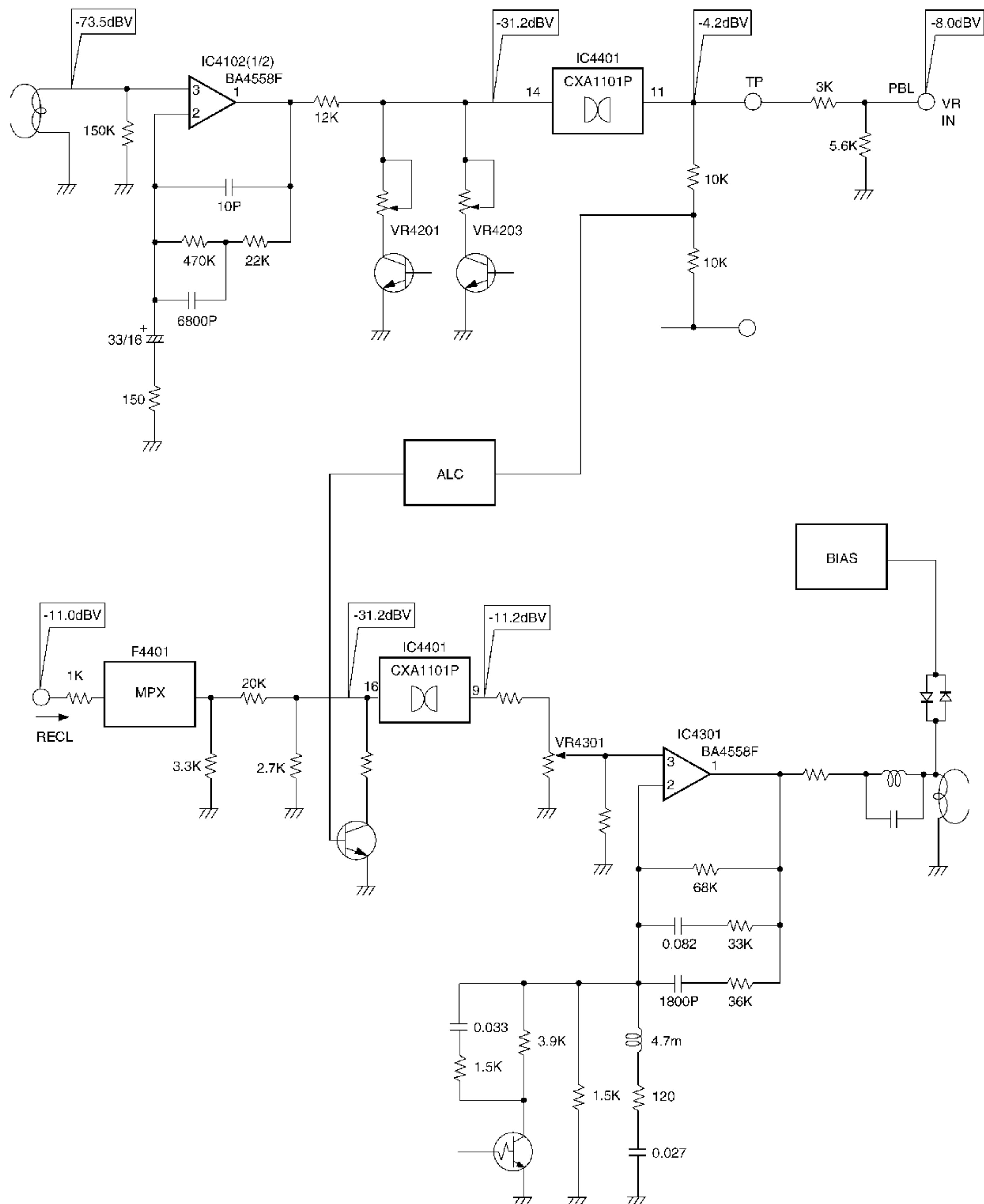


7.3.2 MICROCOMPUTER CONNECTION DIAGRAM



XR-A600,XR-A500,XR-A500EE

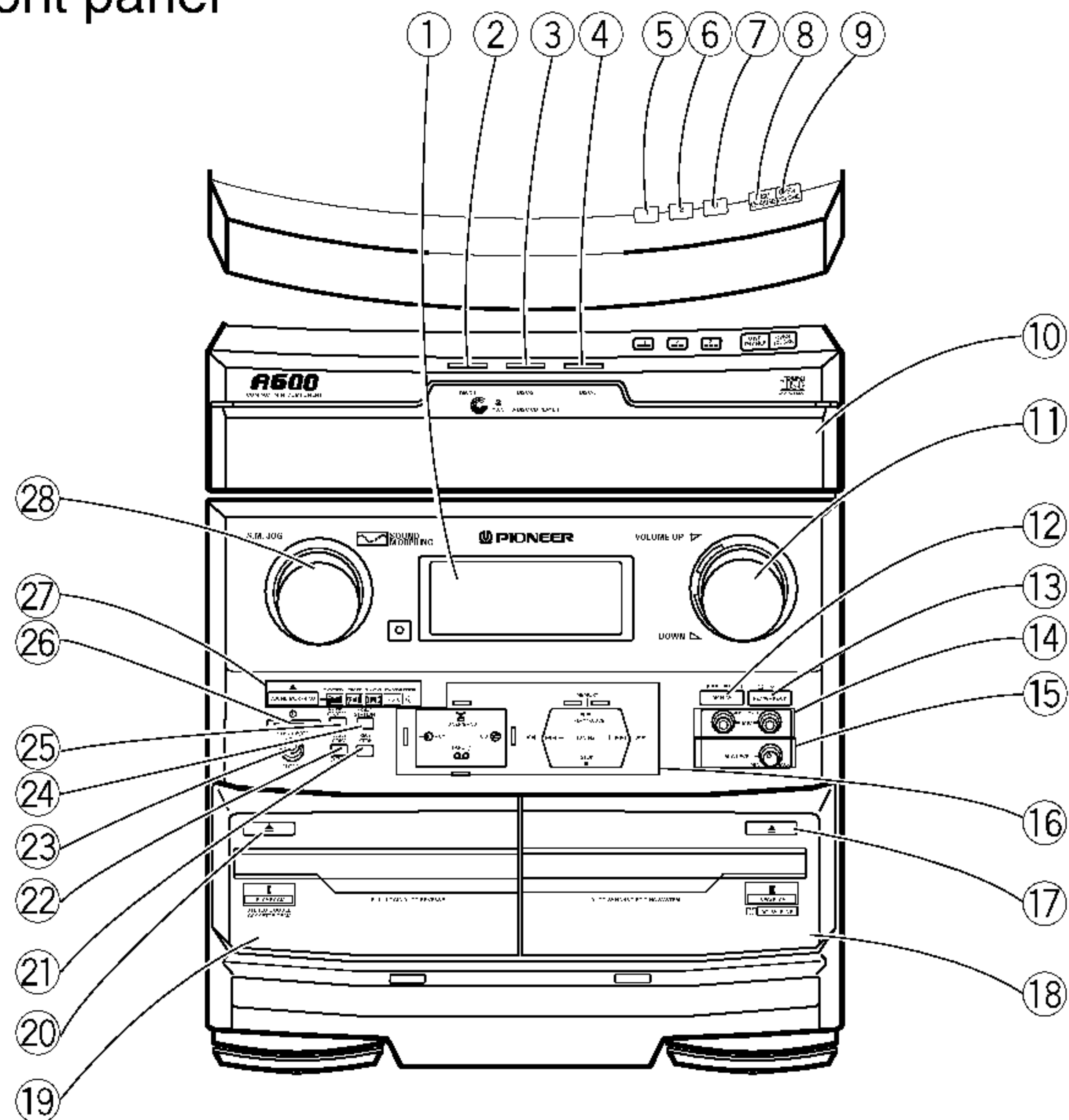
7.3.3 CASSETTE DECK BLOCK (AF ASSY)



8. PANEL FACILITIES AND SPECIFICATIONS

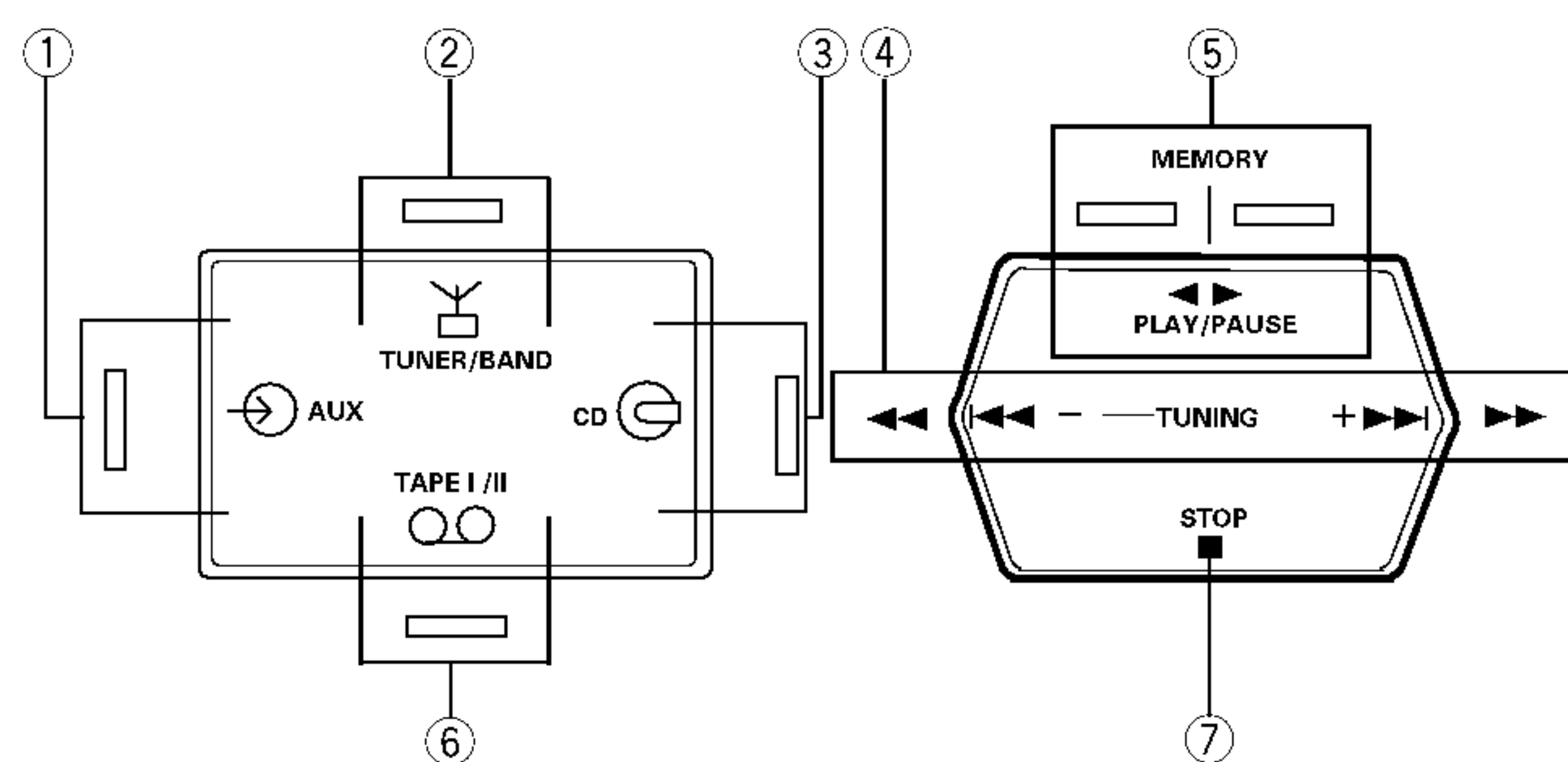
The illustration shows XR-A600.

Front panel



- ① Display
- ② DISC-1 indicator
- ③ DISC-2 indicator
- ④ DISC-3 indicator
- ⑤ DISC 1 select button
- ⑥ DISC 2 select button
- ⑦ DISC 3 select button
- ⑧ DISC CHANGE button
- ⑨ OPEN/CLOSE button
- ⑩ CD disc tray
- ⑪ Volume control (VOLUME)
- ⑫ DISPLAY (CLOCK ADJUST) button
- ⑬ TIMER REC/WAKE-UP button
- ⑭ MIC jack
- ⑮ MIC LEVEL control
- ⑯ Function buttons & common OPERATION buttons
- ⑰ TAPE II Eject button (▲)
- ⑱ TAPE II cassette door
- ⑲ TAPE I cassette door
- ⑳ TAPE I Eject button (▲)
- ㉑ REC/STOP button
- ㉒ ASES/COPY (DEMO) button
- ㉓ PHONES jack (Headphones)
- ㉔ FREQ/STATION button
- ㉕ □□ *NR ON/OFF button

Function button section



- ① AUX function button and indicator
- ② TUNER/BAND function button and indicator
- ③ CD function button and indicator
- ④ TUNING ◀◀, ◀◀ (-), (+) ▶▶, ▶▶ buttons
- ⑤ PLAY/PAUSE button and indicator (◀▶)
- ⑥ TAPE (I/II) function button and indicator
- ⑦ STOP button (■)

- Roles of the common operation buttons (The rules of the buttons vary depending on the input functions as shown below.)

During CD input

- PLAY/PAUSE: Play/pause button
 STOP: Stop button
 (+) ▶▶, ▶▶: Fast forward/track search button
 ◀◀, ◀◀ (-): Fast reverse/track search button

During cassette deck input

- PLAY/PAUSE: Play button/Tape transport direction
 STOP: Stop button
 (+) ▶▶, ▶▶: Fast forward button/Music search button
 ◀◀, ◀◀ (-): Rewind button/Music search button

During tuner operation

- (+) ▶▶, ▶▶: Frequency & Station + (up) button
 ◀◀, ◀◀ (-): Frequency & Station - (down) button

- ㉖ STANDBY/ON Switch
- This is the switch for electric power.
- ON: When set to the ON position, power is supplied and the unit becomes operational.
- STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness .

- ㉗ SOUND MORPHING buttons
(MORPHING, P.BASS, ST.WIDE, BALANCE, PRESET)
- ㉘ S. M. (Sound Morphing) JOG

*

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation

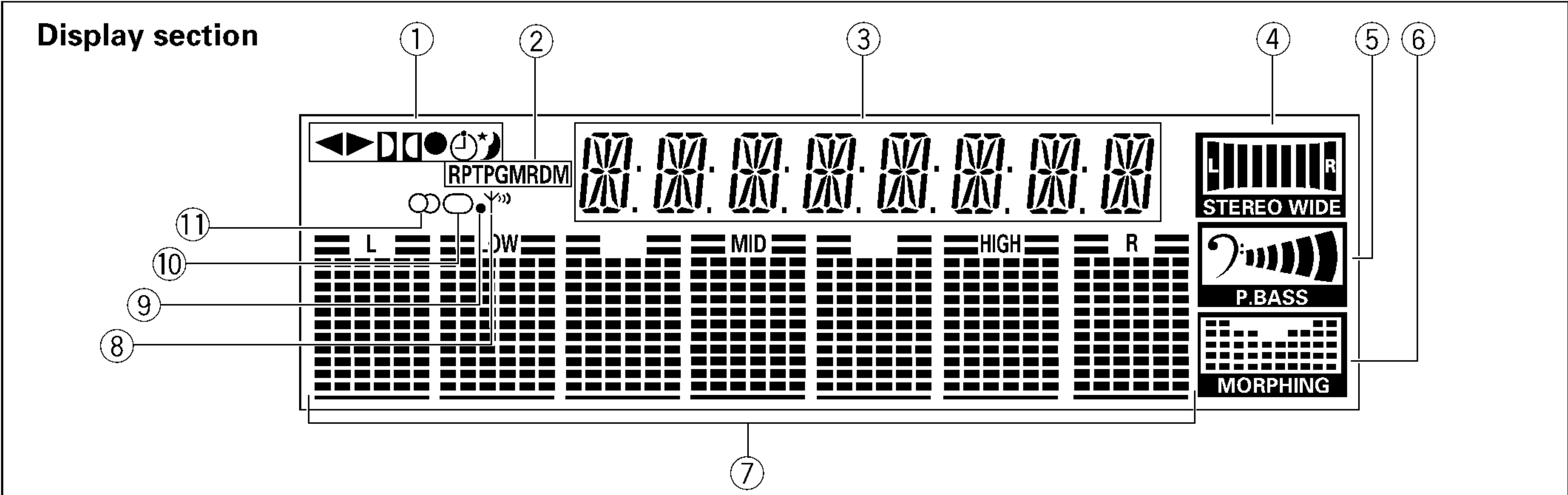
■ Auto Function

This model is equipped with an "Auto Function" operation, so when the function button for CD, TAPE, AUX, TUNER/BAND (BAND with the remote control unit) or PLAY/PAUSE is pressed, the function switches automatically. Use the AUX function button on the remote control unit to select the component connected to the AUX-IN jacks, since the Auto Function is not effective for this.

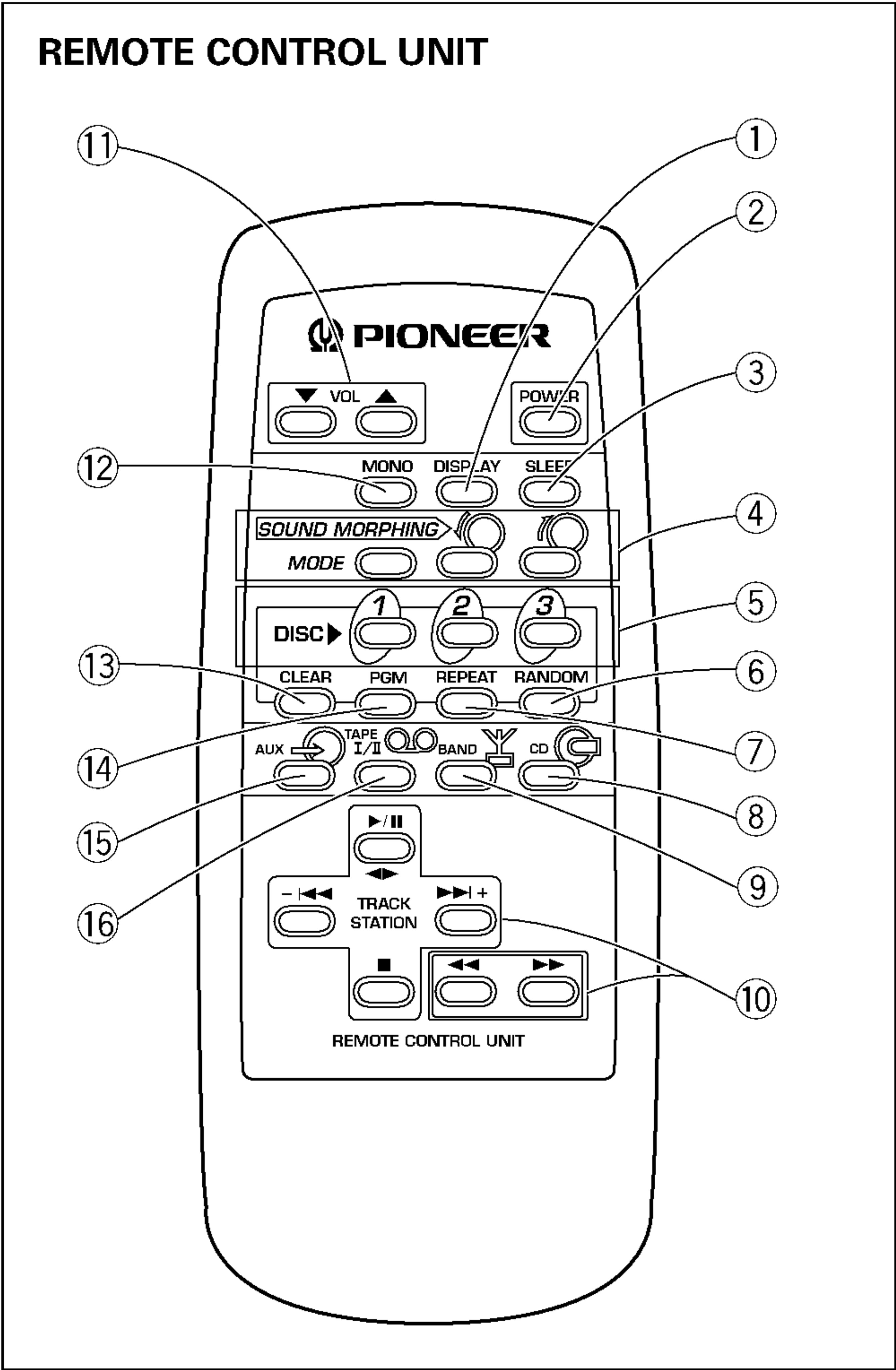
NOTE:

The function cannot be switched during recording and tape copying.

XR-A600,XR-A500,XR-A500EE



- ① ◀▶ Lights to indicate the recording direction of the cassette deck II
- Lights when Dolby NR is ON
- Lights during recording on a cassette deck.
- ⌚ Lights when the timer function is activated.
- ☾ Lights when the sleep time is activated.
- ② RPT... Lights when the REPEAT button of the remote control unit pressed.
- PGM.. Lights when the PGM button of the remote control unit pressed.
- RDM.. Lights when the RDM button of the remote control unit pressed.
- ③ Displays the frequency and major operating modes
- ④ Lights when ST.WIDE is set.
- ⑤ Lights when P.BASS is set.
- ⑥ Lights when MORPHING is set.
- ⑦ Displays the level meter or spectrum analyzer
- ⑧ Lights during radio reception.
- ⑨ Lights when the beat cut function is used.
- ⑩ Lights when the MONO button of the remote control unit is pressed.
- ⑪ Lights during FM stereo reception.



- ① **DISPLAY** button
- ② **POWER** button
- ③ **SLEEP** timer button
- ④ **SOUND MORPHING MODE** buttons & **SOUND MORPHING JOG** control button
- ⑤ **DISC** select button (1-3)
- ⑥ **RANDOM** button
- ⑦ **REPEAT** button
- ⑧ **CD** function button
- ⑨ **BAND** button
 - Use to switch between FM and AM bands.
- ⑩ **CD/TAPE/STATION (up,down) operation** buttons
 - **CD operation** buttons
(Play/Pause ▶/⏸, Track search ◀◀▶▶, Stop ■, Fast ◀◀▶▶)
 - **TAPE** operation buttons
(Play ◀▶, Music Search ◀◀▶▶, Stop ■, Fast ◀◀▶▶)
 - **TUNER** operation buttons
 - + ... Stations change in order in the upward direction.
 - ... Stations change in order in the downward direction.
 - ▶▶... Frequency down.
 - ◀◀... Frequency up.
- ⑪ **VOLUME ▲ (up), ▼ (down)** button
- ⑫ **MONO** button
- ⑬ **CLEAR** button
- ⑭ **PGM** button
- ⑮ **AUX** function button
- ⑯ **TAPE (I/II)** function button

STEREO CD CASSETTE DECK RECEIVER

Amplifier section

<XR-A600>

[FRONT]

Continuous Power Output (RMS) 100 W + 100 W
(1 kHz, T.H.D. 10%, 6 Ω)

- Above specifications are for when power supply is 230 V.

<XR-A500>

[FRONT]

Continuous Power Output (RMS) 70 W + 70 W
(1 kHz, T.H.D. 10%, 6 Ω)

- Above specifications are for when power supply is 230 V.

FM/AM Tuner section

FM tuner section

Frequency Range 87.5 MHz to 108 MHz
Antenna input 75 Ω unbalanced

AM tuner section

Frequency Range
With 9 kHz step 531 kHz to 1,602kHz
With 10 kHz step 530 kHz to 1,700 kHz
Antenna Loop antenna

Miscellaneous

Power Requirements AC 110 – 127, 220 – 230, 240 V
50/60 Hz
Power Consumption 140 W (XR-A600)
125 W (XR-A500)

CD section

Type Compact disc digital audio system
Wow and Flutter Limit of measurement
(± 0.001 % W.PEAK) or less (EIAJ)

Cassette deck section

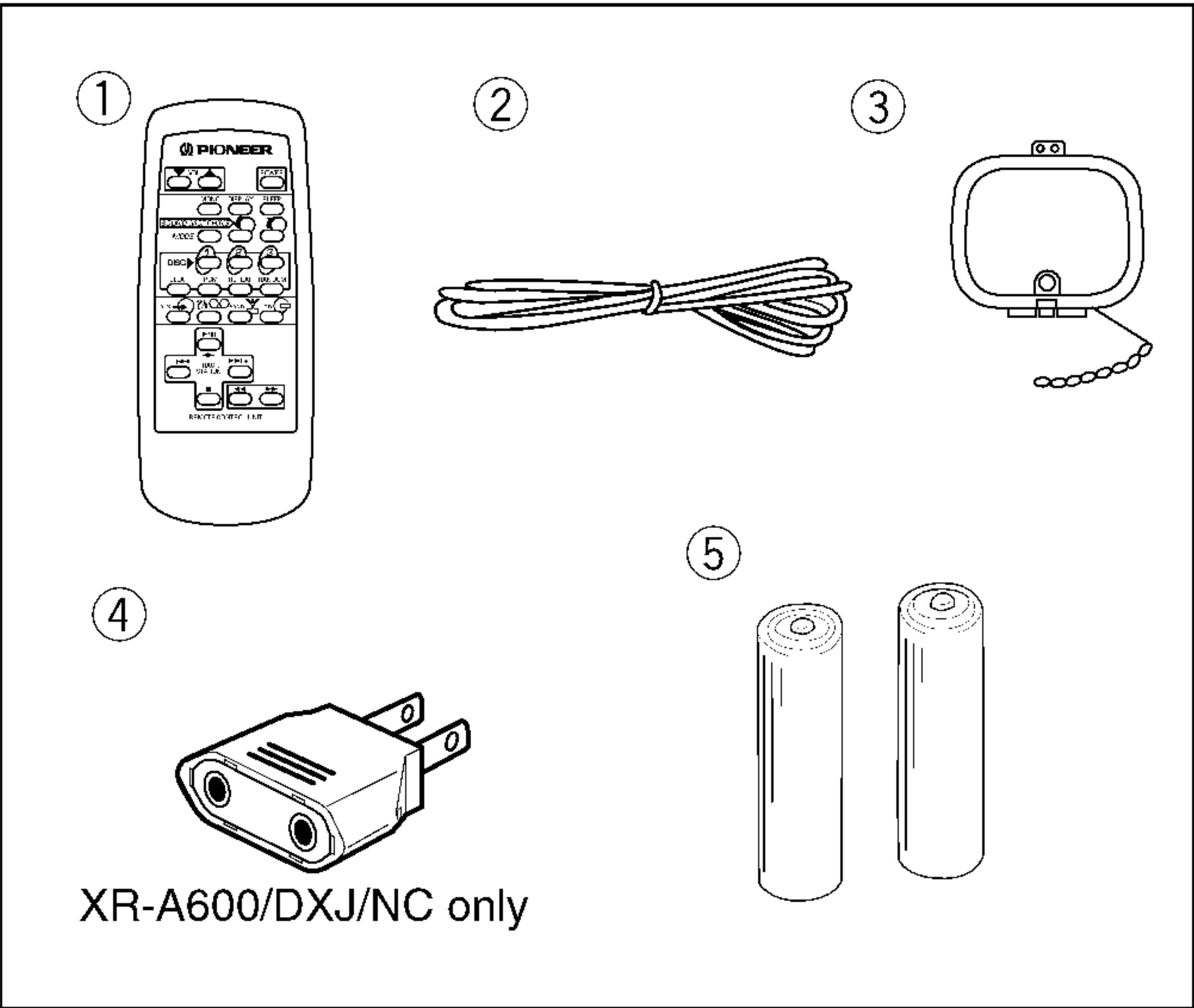
Systems 4 track, 2-channel stereo
Heads Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor DC servo motor x 1
Tape type TYPE I (Normal) tape
Dimensions 270 (W) x 310 (H) x 344 (D) mm
Weight (without package) 8.1 kg (XR-A600)
7.6 kg (XR-A500)

Accessories

Operating instructions 1
Remote control unit 1
FM antenna 1
AM loop antenna 1
Size AA/R6P dry cell batteries 2

NOTE:

Specifications and design subject to possible modification without notice due to improvement.



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| ① Remote control unit x 1 | : AZN7698(CU-XR042) |
| ② FM antenna x 1 | : ADH7004(XR-A600,XR-A500)
ADH7011(XR-A500EE) |
| ③ AM loop antenna x 1 | : ATB7007 |
| ④ Power-cord plug conversion adapter x 1 | : VKX1007(XR-A600/DXJ/NC only) |
| ⑤ AA/R6P dry cell batteries x 2 | : VEM-013 |