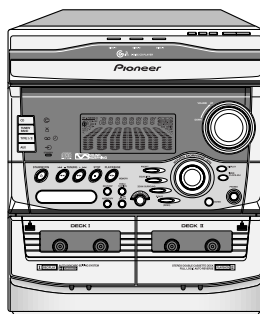


Service Manual

Pioneer



● XR-A660

ORDER NO.
RRV2047

STEREO CD CASSETTE DECK RECEIVER

XR-A660

XR-A550

XR-A330

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

Type	Model			Power Requirement	Remarks
	XR-A660	XR-A550	XR-A330		
MYXK	○	—	—	AC220-230V	
NVXK	○	—	—	AC230V	
MYXJ	—	○	○	AC220-230V	
NVXJ	—	○	○	AC230V	

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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

NVXK Type

CAUTION
INVISIBLE LASER RADIATION
WHEN OPEN, AVOID
EXPOSURE TO BEAM
ARW1050

NVXJ Type

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

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: 1.3 mW
WAVELENGTH: 790 nm ± 25 nm

(XR-A550)
(XR-A330)

(XR-A660)

**CLASS 1
LASER PRODUCT**

Printed on the Rear Panel

MYXK and MYXJ Types

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

MYXK Type

ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAF-
BRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL
(ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
ARW1049

MYXJ Type

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

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.

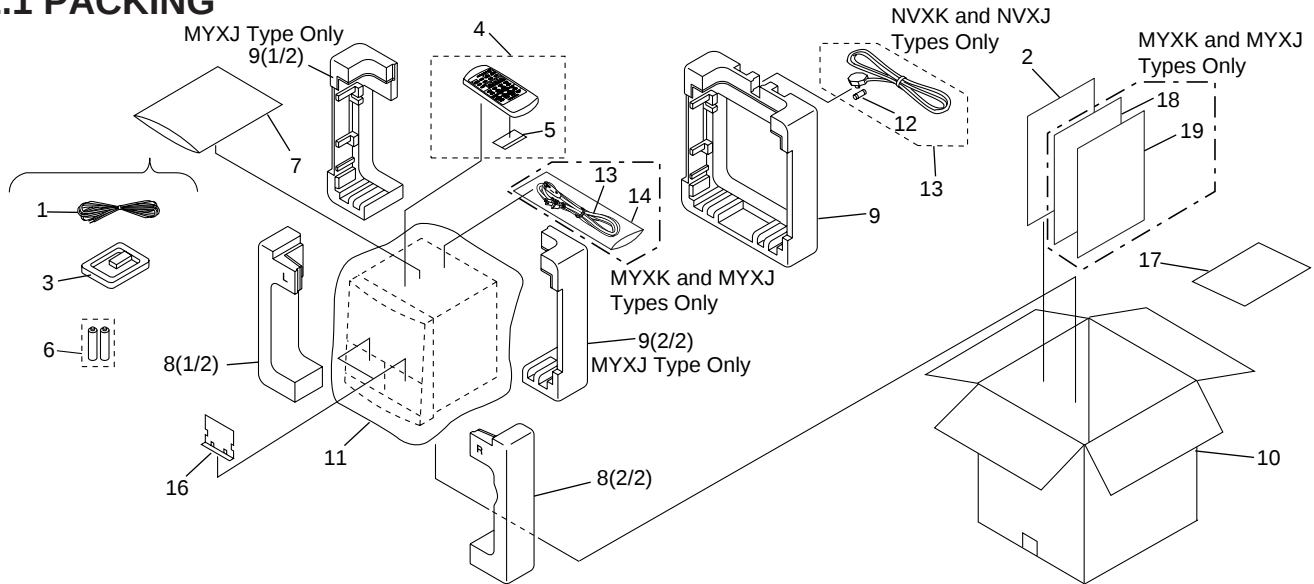
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" and ⊗ can not be supplied.

● The △ 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 ▼ mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

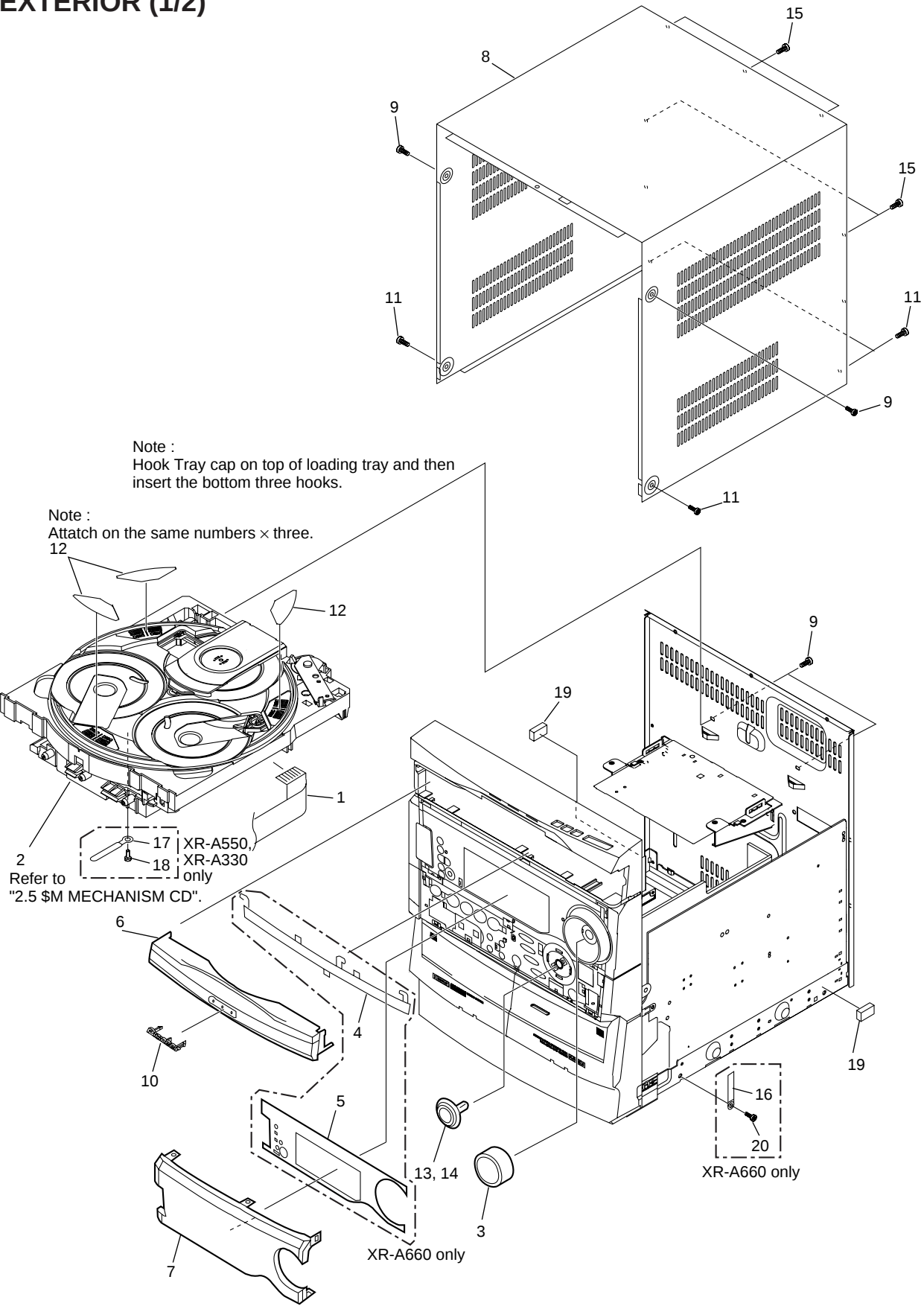
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	FM Antenna	ADH7005		10	Packing Case	See Contrast table (2)
	2	Operating Instructions (English/French)	XRE3014		11	Packing Sheet	AHG7049
	3	AM Loop Antenna	See Contrast table (2)	△	12	Fuse (T5A)	See Contrast table (2)
	4	Remote Control Unit (CU-XR048)	XZN3006	△	13	Power Cord	See Contrast table (2)
	5	Battery Cover	AZA7204	NSP	14	Polyethylene Bag	See Contrast table (2)
NSP	6	Dry Cell Battery (R6P, AA)	See Contrast table (2)		15		
NSP	7	Literature Bag	See Contrast table (2)	NSP	16	Door Spacer	XHG3002
	8	Front Pad	See Contrast table (2)	NSP	17	Warranty Card	ARY7022
	9	Rear Pad	See Contrast table (2)		18	Operating Instructions	See Contrast table (2)
					19	Operating Instructions	See Contrast table (2)

(2) CONTRAST TABLE

XR-A660/MYXK, NVXK, XR-A550/MYXJ, NVXJ, XR-A330/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A660 /MYXK	XR-A660 /NVXK	XR-A550 /MYXJ	XR-A550 /NVXJ	XR-A330 /MYXJ	XR-A330 /NVXJ	
NSP	3	AM Loop Antenna	ATB7007	ATB7007	XTB3001	XTB3001	XTB3001	XTB3001	
	6	Dry Cell Battery (R6P, AA)	AEX7001	AEX7001	VEM-013	VEM-013	VEM-013	VEM-013	
	7	Literature Bag	AHG1091	AHG1091	Not used	Not used	Not used	Not used	
	7	Catalog Bag (0.03 × 230 × 340)	Not used	Not used	Z21-038	Z21-038	Z21-038	Z21-038	
	8	Front Pad	XHA3007	XHA3007	XHA3003	XHA3007	XHA3003	XHA3007	
	9	Rear Pad	XHA3008	XHA3008	XHA3004	XHA3008	XHA3004	XHA3008	
△	10	Packing Case	XHD3046	XHD3046	XHD3053	XHD3071	XHD3064	XHD3069	
△	12	Fuse (T5A)	Not used	AEK7001	Not used	AEK1046	Not used	AEK1046	
NSP	13	Power Cord	ADG7010	ADG7009	ADG1154	ADG1156	ADG1154	ADG1156	
	14	Polyethylene Bag	AHG7033	Not used	AHG7033	Not used	AHG7033	Not used	
	18	Operating Instructions (Italian/German/Dutch)	XRC3003	Not used	XRC3003	Not used	XRC3003	Not used	
	19	Operating Instructions (Portuguese/Swedish/Spanish)	XRC3004	Not used	XRC3004	Not used	XRC3004	Not used	

2.2 EXTERIOR (1/2)



(1) EXTERIOR (1/2) PARTS LIST

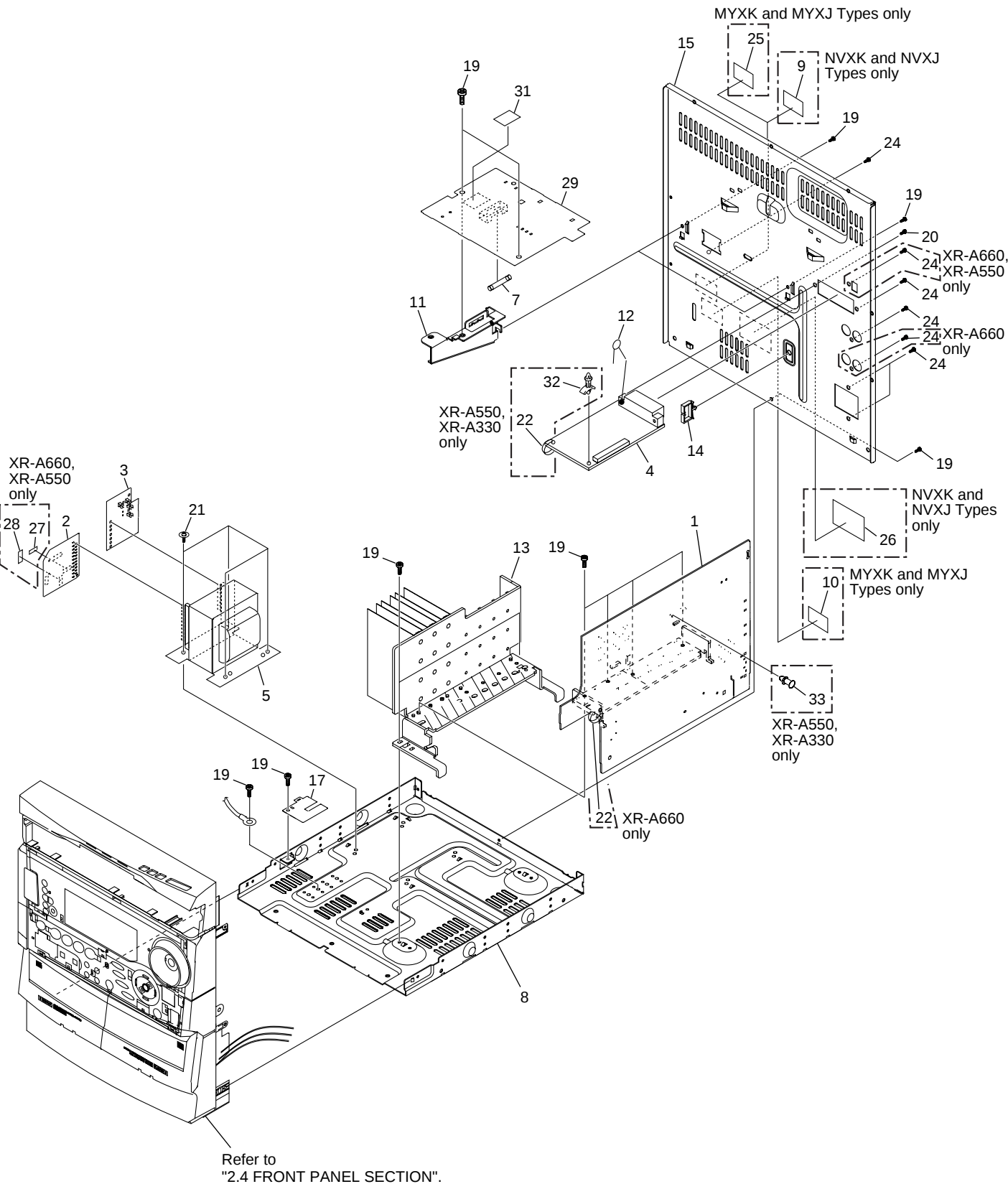
Mark	No.	Description	Part No.
NSP	1	F.F.C/30V	See Contrast table (2)
	2	\$M Mechanism CD	See Contrast table (2)
	3	Volume Knob	See Contrast table (2)
	4	FL Cover A	See Contrast table (2)
	5	FL Cover B	See Contrast table (2)
	6	Tray Cap	See Contrast table (2)
	7	Display Panel	See Contrast table (2)
	8	Bonnet Case	See Contrast table (2)
	9	Screw	BPZ30P100FZK
	10	Pioneer Badge	AZN3049
	11	Screw	VBZ30P080FZK
	12	Disc Label	XAX3127
	13	Jog Knob Assy	See Contrast table (2)
	14	Jog Knob	See Contrast table (2)
	15	Screw	BCZ30P060FZK
NSP	16	Cord Clamper	See Contrast table (2)
	17	Cord Stopper	See Contrast table (2)
	18	Push Rivet	See Contrast table (2)
	19	Cushion Rubber	XEB3002
	20	Screw	VBZ30P080FZK

(2) CONTRAST TABLE

XR-A660/MYXK, NVXK, XR-A550/MYXJ, NVXJ, XR-A330/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A660 /MYXK	XR-A660 /NVXK	XR-A550 /MYXJ	XR-A550 /NVXJ	XR-A330 /MYXJ	XR-A330 /NVXJ	
NSP	1	22P F.F.C/30V	XDD3018	XDD3018	XDD3018	XDD3018	Not used	Not used	
	1	20P F.F.C/30V	Not used	Not used	Not used	Not used	XDD3017	XDD3017	
	2	\$M Mechanism CD	XXA3006	XXA3006	XXA3006	XXA3006	XXA3005	XXA3005	
	3	Volume Knob	XAA3005	XAA3005	XAA3007	XAA3007	XAA3007	XAA3007	
	4	FL Cover A	XAK3026	XAK3026	Not used	Not used	Not used	Not used	
	5	FL Cover B	XAK3036	XAK3036	Not used	Not used	Not used	Not used	
	6	Tray Cap	XZN3047	XZN3047	XZN3048	XZN3048	XZN3048	XZN3048	
	7	Display Panel	XAK3054	XAK3054	XAK3051	XAK3051	XAK3053	XAK3053	
	8	Bonnet Case	XZN3062	XZN3062	XZN3045	XZN3045	XZN3045	XZN3045	
	13	Jog Knob Assy	XXG3023	XXG3023	Not used	Not used	Not used	Not used	
	14	Jog Knob	Not used	Not used	XAA3008	XAA3008	XAA3008	XAA3008	
NSP	16	Cord Clamper	RNH-184	RNH-184	Not used	Not used	Not used	Not used	
	17	Cord Stopper	Not used	Not used	DNF1128	DNF1128	DNF1128	DNF1128	
	18	Push Rivet	Not used	Not used	AEC7138	AEC7138	AEC7138	AEC7138	

2.3 EXTERIOR (2/2)



(1) EXTERIOR (2/2) PARTS LIST

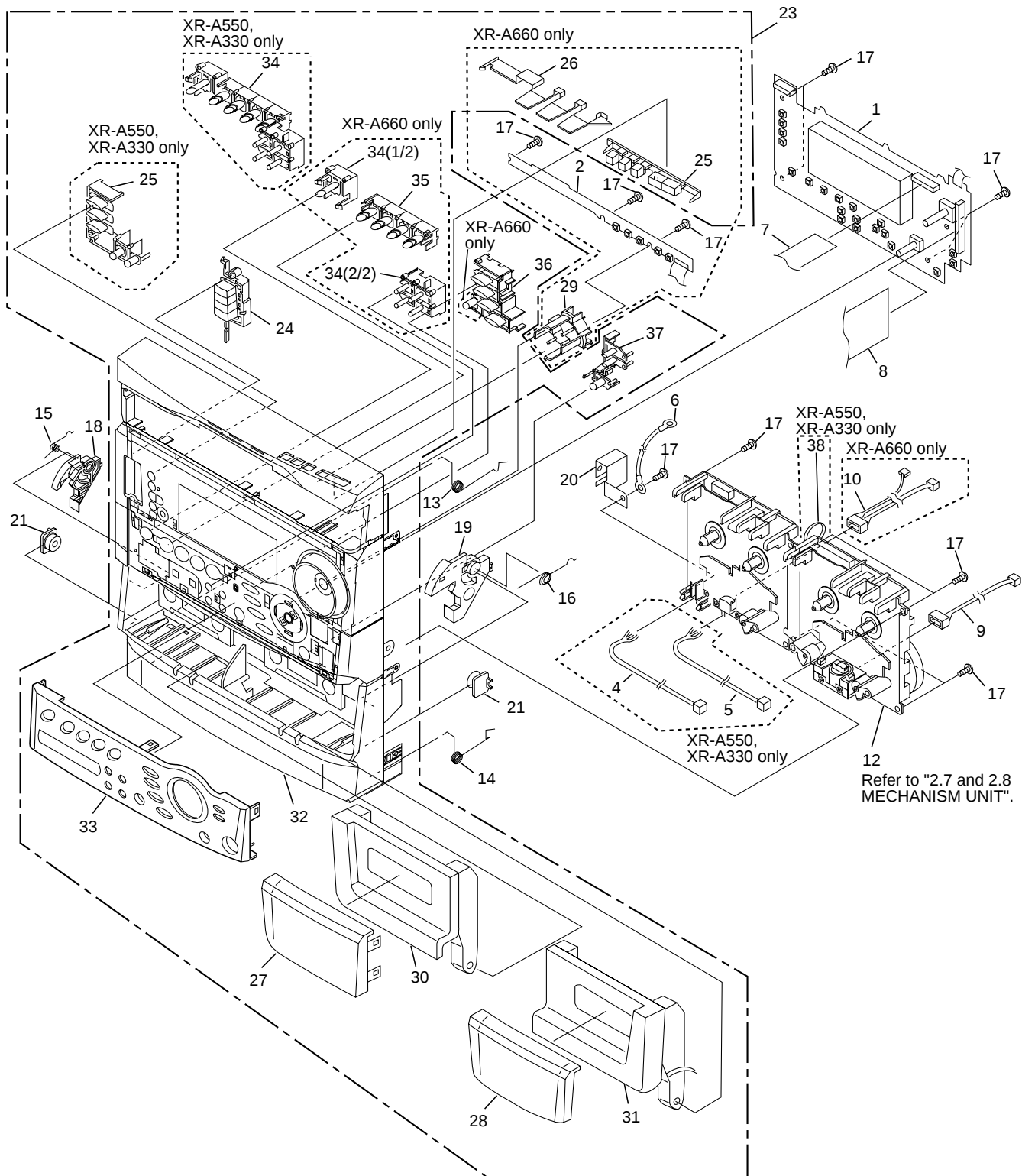
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
⊗	1	AF Assy	See Contrast table (2)		16	•••••	
⊗	2	SECONDARY Assy	See Contrast table (2)	NSP	17	SUPPORT Assy	XNP3008
⊗	3	PRIMARY Assy	XWZ3066		18	•••••	
	4	FM/AM TUNER MODULE	See Contrast table (2)		19	Screw	VBZ30P080FZK
△	5	T1 Power Transformer	See Contrast table (2)		20	Screw	ABA-115
	6	•••••			21	Screw	ASZ40P060FMC
△	7	FU1 Fuse	See Contrast table (2)		22	Binder	ZCA-SKB90BK
NSP	8	Chassis	XNA3001		23	•••••	
NSP	9	Caution Label	See Contrast table (2)		24	Screw	BPZ30P100FZK
NSP	10	Caution Label	See Contrast table (2)		25	Caution Label	See Contrast table (2)
	11	PCB Bracket	XNG3006	NSP	26	Name Label	See Contrast table (2)
	12	Ceramic Capacitor	See Contrast table (2)		27	ICP Label	See Contrast table (2)
	13	Heat Sink	See Contrast table (2)		28	ICP Label	See Contrast table (2)
	14	Wire Clip	XEC3002	⊗	29	SUB TRANS Assy	XWZ3067
	15	Rear Panel	See Contrast table (2)		30	•••••	
				NSP	31	Fuse Card	See Contrast table (2)
					32	Locking Spacer	See Contrast table (2)
					33	Card Spacer	See Contrast table (2)

(2) CONTRAST TABLE

XR-A660/MYXK, NVXK, XR-A550/MYXJ, NVXJ, XR-A330/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A660 MYXK	XR-A660 /NVXK	XR-A550 /MYXJ	XR-A550 /NVXJ	XR-A330 /MYXJ	XR-A330 /NVXJ	
⊗	1	AF Assy	XWZ3097	XWZ3097	XWZ3077	XWZ3077	XWZ3063	XWZ3063	
⊗	2	SECONDARY Assy	XWZ3098	XWZ3098	XWZ3098	XWZ3098	XWZ3064	XWZ3064	
	4	FM/AM TUNER MODULE	AXQ7077	AXQ7077	AXQ7068	AXQ7068	AXQ7068	AXQ7068	
△	5	T1 Power Transformer	XTS3016	XTS3016	XTS3016	XTS3016	XTS3013	XTS3013	
△	7	FU1 Fuse (T2A)	AEK1057	AEK1057	AEK1057	AEK1057	Not used	Not used	
△	7	FU1 Fuse (T1.6A)	Not used	Not used	Not used	Not used	AEK1056	AEK1056	
NSP	9	Caution Label	Not used	ARW1050	Not used	Not used	Not used	Not used	
	9	Caution Label	Not used	Not used	Not used	PRW1018	Not used	PRW1018	
NSP	10	Caution Label	ARW1049	Not used	Not used	Not used	Not used	Not used	
	10	Caution Label	Not used	Not used	VRW1094	Not used	VRW1094	Not used	
	12	Ceramic Capacitor	CKPUYB102K50	CKPUYB102K50	CKCYB102K50	CKCYB102K50	CKPUYB102K50	CKPUYB102K50	
	13	Heat Sink	XNH3002	XNH3002	XNH3002	XNH3002	XNH3003	XNH3003	
	15	Rear Panel	XNC3010	XNC3010	XNC3005	XNC3005	XNC3016	XNC3016	
	25	Caution Label	PRW1233	Not used	PRW1233	Not used	PRW1233	Not used	
NSP	26	Name Label	Not used	XAL3007	Not used	XAL3026	Not used	XAL3022	
	27	ICP Label	XAX3120	XAX3120	XAX3120	XAX3120	Not used	Not used	
	28	ICP Label	XAX3121	XAX3121	XAX3121	XAX3121	Not used	Not used	
NSP	31	Fuse Card	AAX7026	AAX7026	AAX2357	AAX2357	AAX2377	AAX2377	
	32	Locking Spacer	Not used	Not used	XEC3009	XEC3009	XEC3009	XEC3009	
	33	Card Spacer	Not used	Not used	XEC3008	XEC3008	XEC3008	XEC3008	

2.4 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

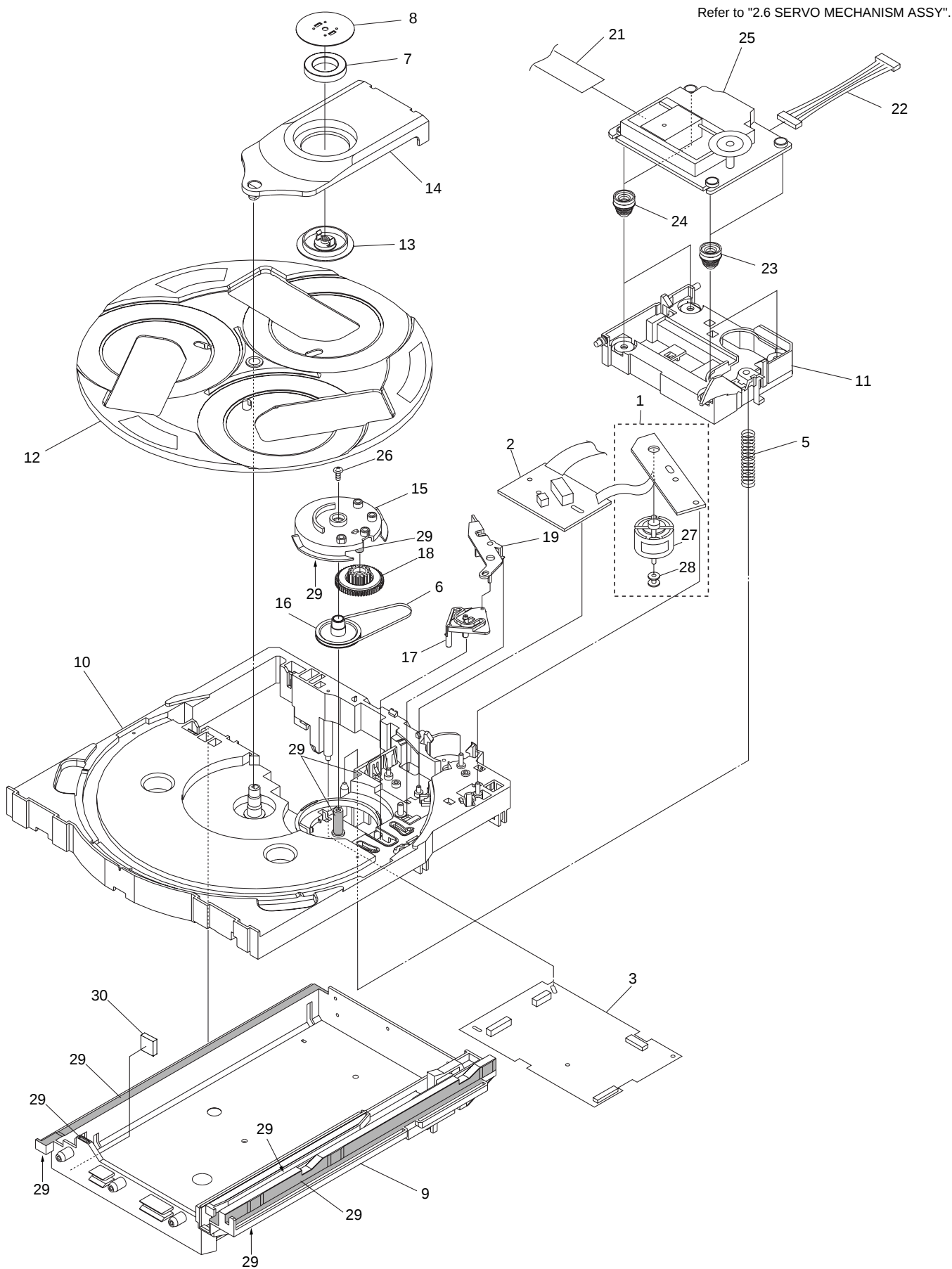
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
⊗	1	DISPLAY Assy	See Contrast table (2)		21	Damper Assy	AXA7052
⊗	2	CD SW LED Assy	See Contrast table (2)		22	•••••	
	3	•••••		NSP	23	Front Panel Assy	See Contrast table (2)
	4	Connector Assy 2P	See Contrast table (2)		24	Function Button	See Contrast table (2)
	5	Connector Assy 4P	See Contrast table (2)		25	CD Button	See Contrast table (2)
NSP	6	Cord With Plug	DE007VE0		26	CD Lens	See Contrast table (2)
	7	Flexible Cable	See Contrast table (2)		27	Deck Lens L	XZN3035
	8	Flexible Cable 38P	XDD3004		28	Deck Lens R	XZN3036
	9	Connector Assy 3P	See Contrast table (2)	NSP	29	Jog Lens	See Contrast table (2)
	10	Connector Assy 5P	See Contrast table (2)		30	Door Pocket L	See Contrast table (2)
	11	•••••			31	Door Pocket R	See Contrast table (2)
	12	Mechanism Unit	See Contrast table (2)		32	Front Panel	See Contrast table (2)
	13	Door Spring L	XBH3001		33	Sub Panel	See Contrast table (2)
	14	Door Spring R	XBH3002		34	Power Button	See Contrast table (2)
	15	Latch Spring L	ABH7130		35	Play Button	See Contrast table (2)
	16	Latch Spring R	ABH7131		36	S.C. Button	See Contrast table (2)
	17	Screw	BPZ30P100FZK		37	TIMER Button	See Contrast table (2)
	18	Latch Mold L	XMR3001		38	Binder	See Contrast table (2)
	19	Latch Mold R	XMR3002				
	20	GND Plate B	XNG3005				

(2) CONTRAST TABLE

XR-A660/MYXK, NVXK, XR-A550/MYXJ, NVXJ, XR-A330/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A660 /MYXK	XR-A660 /NVXK	XR-A550 /MYXJ	XR-A550 /NVXJ	XR-A330 /MYXJ	XR-A330 /NVXJ	
⊗	1	DISPLAY Assy	XWZ3099	XWZ3099	XWZ3079	XWZ3079	XWZ3065	XWZ3065	
⊗	2	CD SW LED Assy	XWZ3086	XWZ3086	Not used	Not used	Not used	Not used	
	4	Connector Assy 2P	Not used	Not used	XDE3012	XDE3012	XDE3012	XDE3012	
	5	Connector Assy 4P	Not used	Not used	XDE3011	XDE3011	XDE3011	XDE3011	
	7	Flexible Cable 19P	XDD3009	XDD3009	Not used	Not used	Not used	Not used	
	7	Flexible Cable 17P	Not used	Not used	XDD3010	XDD3010	XDD3010	XDD3010	
	9	Connector Assy 3P	XDE3001	XDE3001	XDE3009	XDE3009	XDE3009	XDE3009	
	10	Connector Assy 5P	XDE3002	XDE3002	Not used	Not used	Not used	Not used	
	12	Mechanism Unit	XYM3003	XYM3003	XYM3002	XYM3002	XYM3002	XYM3002	
NSP	23	Front Panel Assy	XXG3019	XXG3019	XXG3013	XXG3013	XXG3011	XXG3011	
	24	Function Button	XZN3020	XZN3020	XZN3021	XZN3021	XZN3021	XZN3021	
	25	CD Button	XZN3018	XZN3018	XZN3019	XZN3019	XZN3019	XZN3019	
	26	CD Lens	XZN3037	XZN3037	Not used	Not used	Not used	Not used	
NSP	29	Jog Lens	XAK3025	XAK3025	Not used	Not used	Not used	Not used	
	30	Door Pocket L	XZN3013	XZN3013	XZN3014	XZN3014	XZN3014	XZN3014	
	31	Door Pocket R	XZN3015	XZN3015	XZN3016	XZN3016	XZN3016	XZN3016	
	32	Front Panel	XZN3011	XZN3011	XZN3012	XZN3012	XZN3012	XZN3012	
	33	Sub Panel	XZN3043	XZN3043	XZN3042	XZN3042	XZN3042	XZN3042	
	34	Power Button	XZN3022	XZN3022	XZN3023	XZN3023	XZN3023	XZN3023	
	35	Play Button	XZN3024	XZN3024	Not used	Not used	Not used	Not used	
	36	S.C. Button	XZN3025	XZN3025	XZN3027	XZN3027	XZN3027	XZN3027	
	37	TIMER Button	XZN3029	XZN3029	XZN3030	XZN3030	XZN3030	XZN3030	
	38	Binder	Not used	Not used	ZCA-SKB90BK	ZCA-SKB90BK	ZCA-SKB90BK	ZCA-SKB90BK	

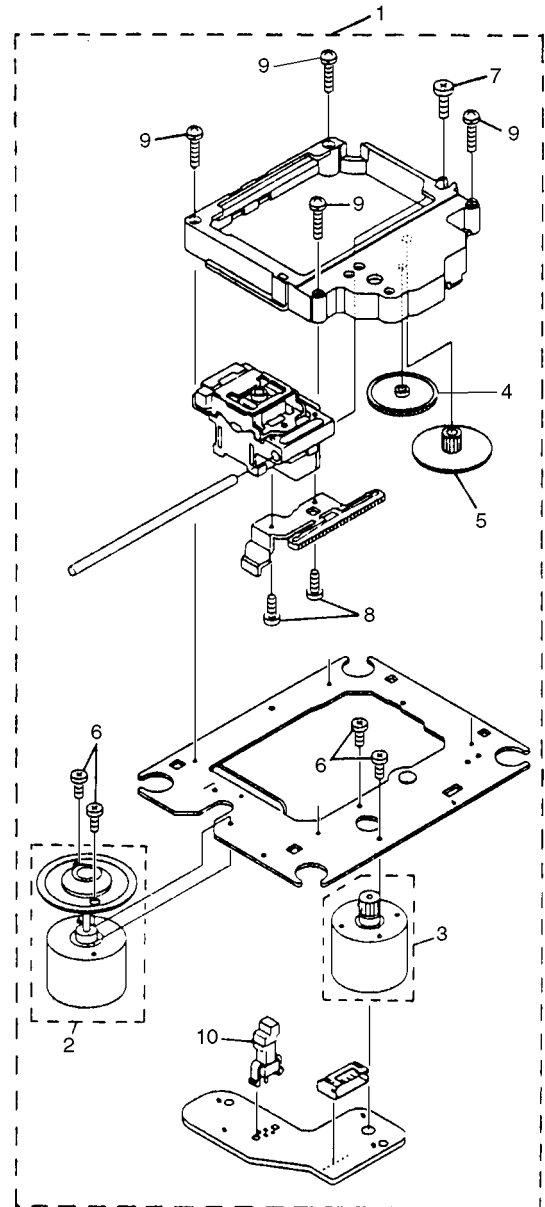
2.5 \$M MECHANISM CD



2.6 SERVO MECHANISM ASSY

● \$M MECHANISM CD PARTS LIST

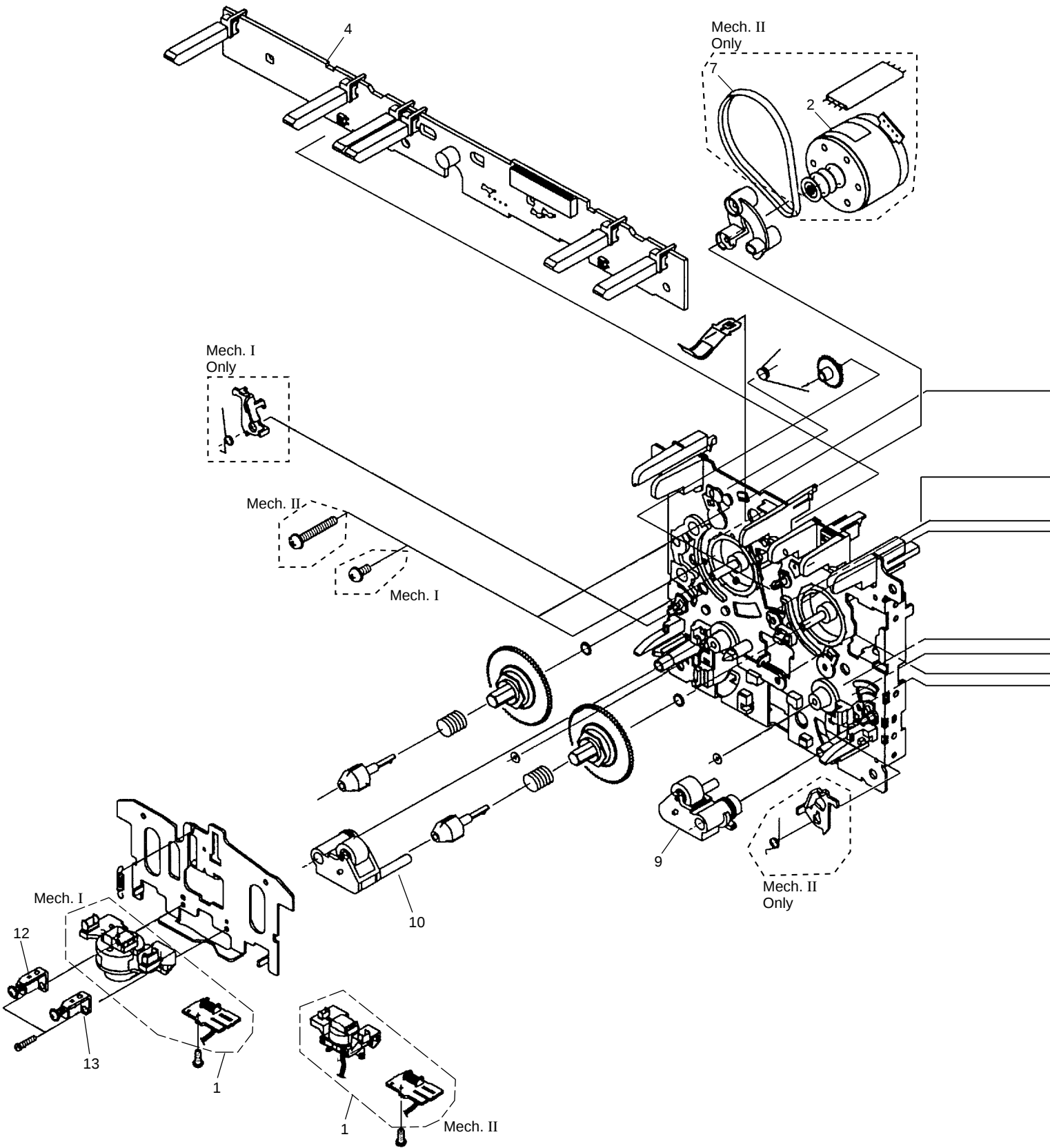
Mark	No.	Description	Part No.
⊗	1	MOTOR Assy	AWZ8428
NSP	2	SW Assy	AWZ8429
⊗	3	CD Assy (XR-A660, XR-A550)	XWZ3141
⊗	3	CD Assy (XR-A330)	XWZ3050
	4	•••••	
	5	Servo Spring	ABH7126
	6	Belt	AEB7072
	7	Clamp Magnet	AMF7001
	8	Yoke	ANB7067
	9	Mecha Base	ANW7125
	10	Loading Tray	ANW7088
	11	Servo Base	ANW7089
	12	Rotary Tray	ANW7113
	13	Clamper	ANW7091
	14	Clamper Holder	ANW7092
	15	Main Cam	ANW7093
	16	Gear Pulley	ANW7094
	17	Lock Lever	ANW7095
	18	Planet Gear	ANW7096
	19	Actuator	ANW7097
	20	•••••	
	21	15P F.F.C/30V	ADD7038
	22	Connector Assy (6P)	ADE7010
	23	Float Rubber A	AEB7063
	24	Float Rubber B	AEB7066
	25	Servo Mechanism Assy	AXA7039
	26	Screw	IPZ30P080FMC
	27	Carriage Motor	VXM1033
	28	Motor Pulley	PNW1634
	29	Ha Narl	GEM1016
	30	Cushion Rubber	XEB3003

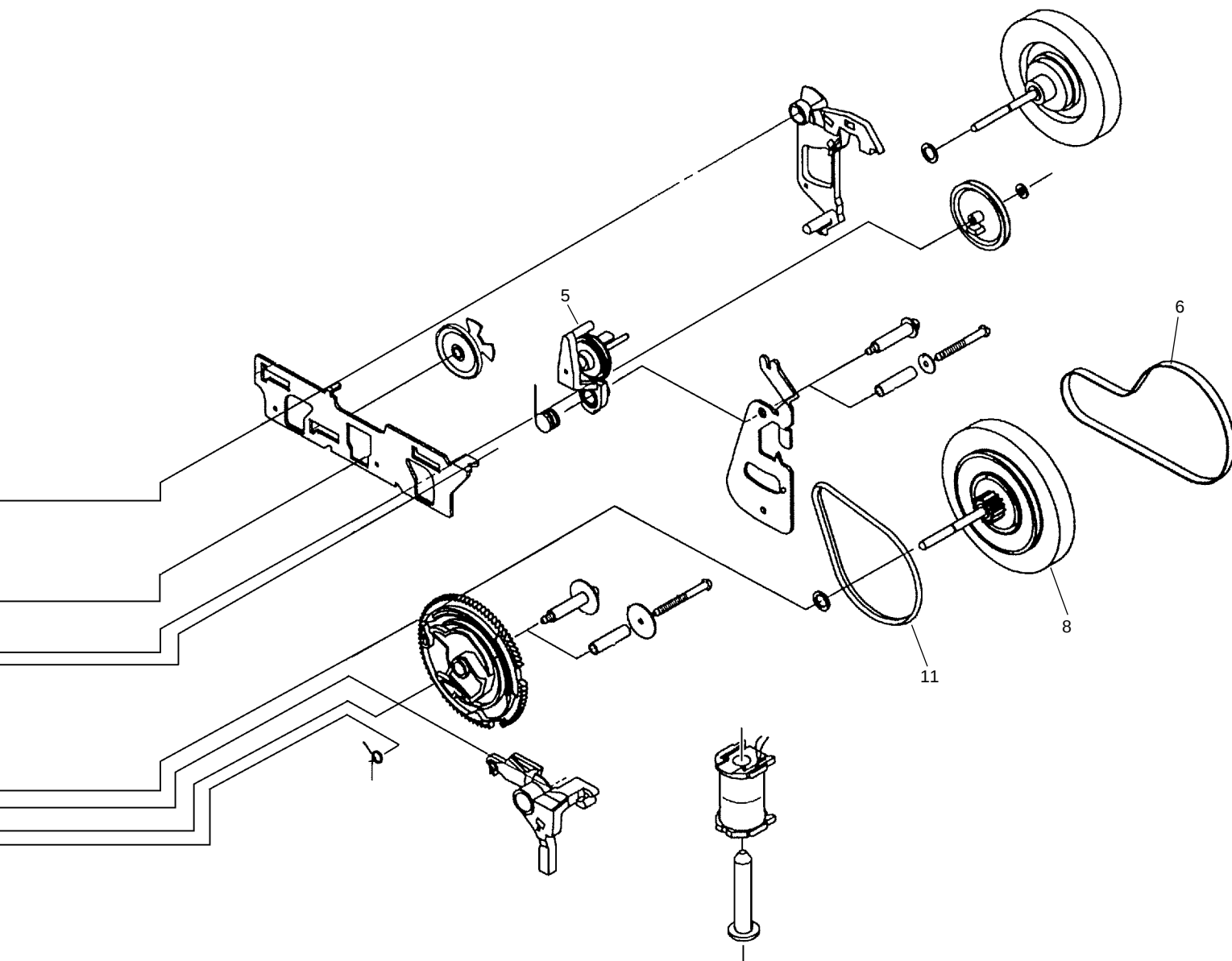


● SERVO MECHANISM ASSY PARTS LIST

Mark	No.	Description	Part 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 (XR-A660)

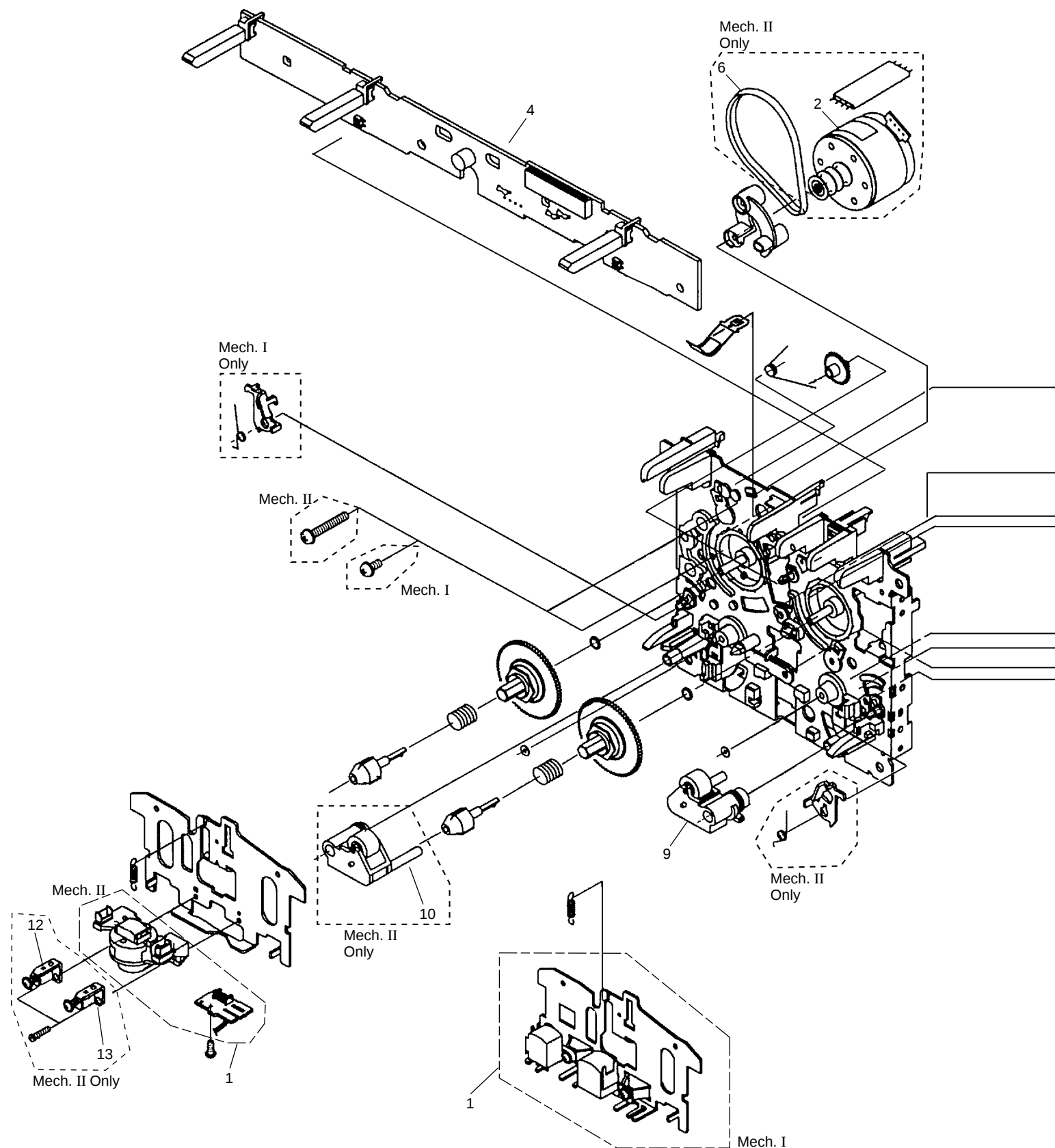


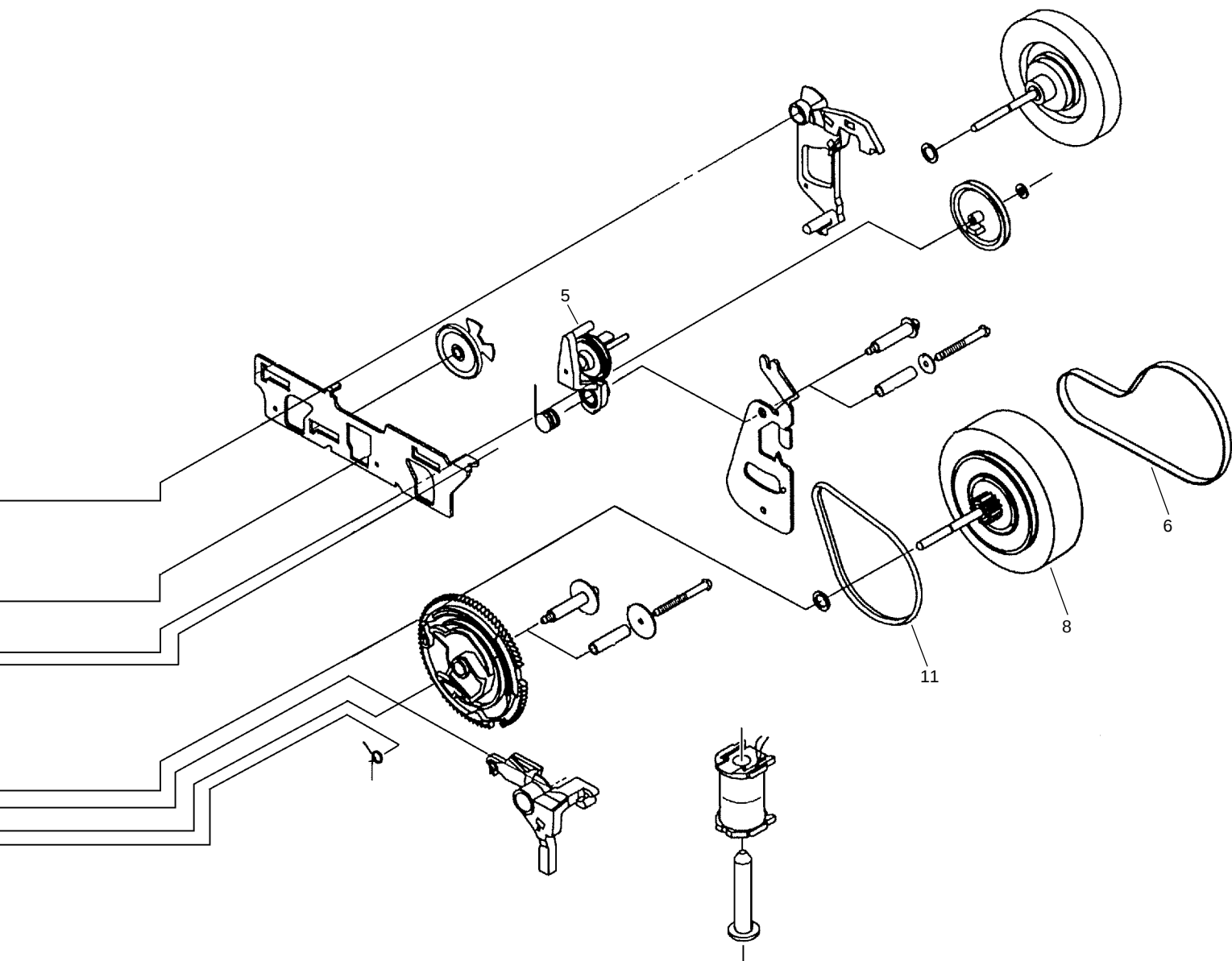


● MECHANISM UNIT PARTS LIST

Mark	No.	Description	Part No.
	1	Plate HD BLK (Mech. II)	F513-811
	1	Plate HD BLK (Mech. I)	F513-819
	2	Motor Main BLK (Mech. II only)	F525-324
	3		
	4	PCB Control BLK	F567-621
	5	Clutch Assy BLK	F522-037
	6	Main Belt	FF17G-31
	7	Joint Belt 113 (Mech. II only)	FF19D-21
	8	Clutch Assy BLK	F522-045
	9	Roller Pinch BLK R	F514-129
	10	Roller Pinch BLK L	F514-130
	11	F/R Belt	FF18W-12
	12	Plate Base BLK	F512-127
	13	Plate Base BLK	F512-128

2.8 MECHANISM UNIT (XR-A550 and XR-A330)

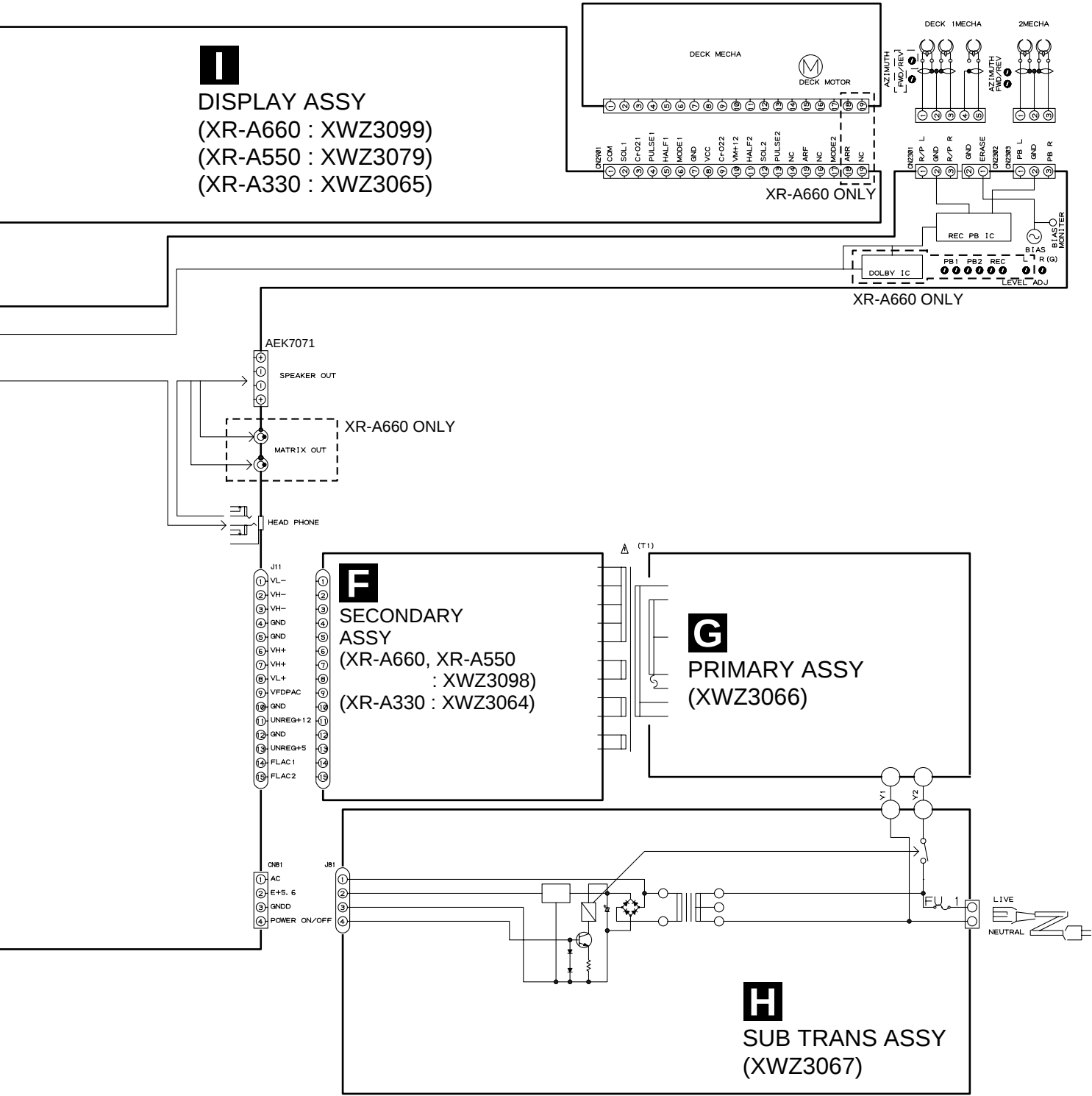




● MECHANISM UNIT PARTS LIST

Mark	No.	Description	Part No.
	1	Plate HD BLK (Mech. II)	F513-811
	1	Plate HD BLK (Mech. I)	F513-825
	2	Motor Main BLK (Mech. II only)	F525-324
	3		
	4	PCB Control BLK	F567-622
	5	Clutch Assy BLK	F522-037
	6	Main Belt	FF17G-31
	7		
	8	Clutch Assy BLK (Mech. II)	F522-045
	8	Clutch Assy BLK (Mech. I)	F522-038
	9	Roller Pinch BLK R (Mech. II)	F514-129
	9	Roller Pinch BLK R (Mech. I)	F514-131
	10	Roller Pinch BLK L (Mech. II only)	F514-130
	11	F/R Belt	FF18W-12
	12	Plate Base BLK (Mech. II only)	F512-127
	13	Plate Base BLK (Mech. II only)	F512-128

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



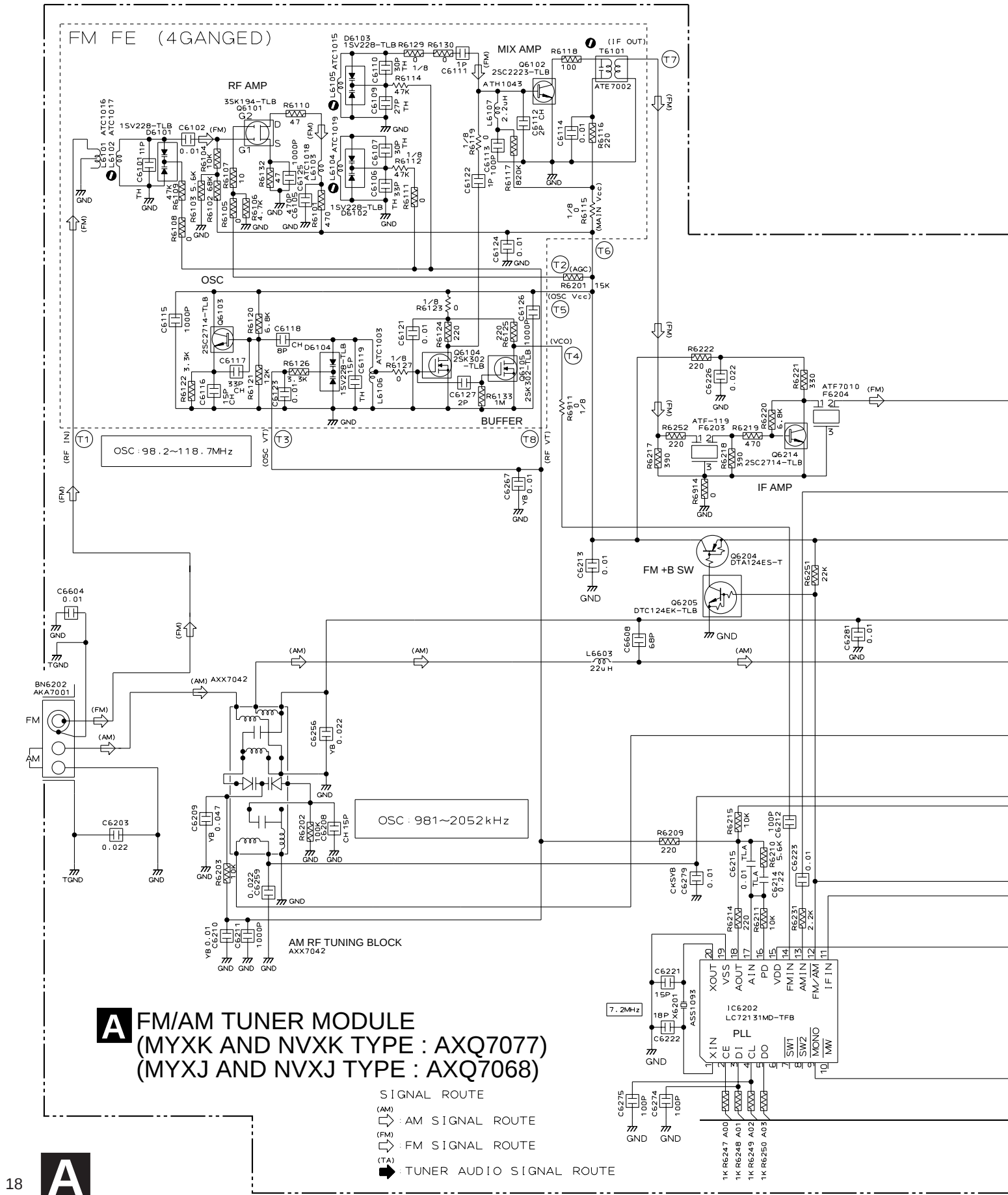
A

B

C

D

3.2 FM/AM TUNER MODULE



Notes

1.RESISTORS

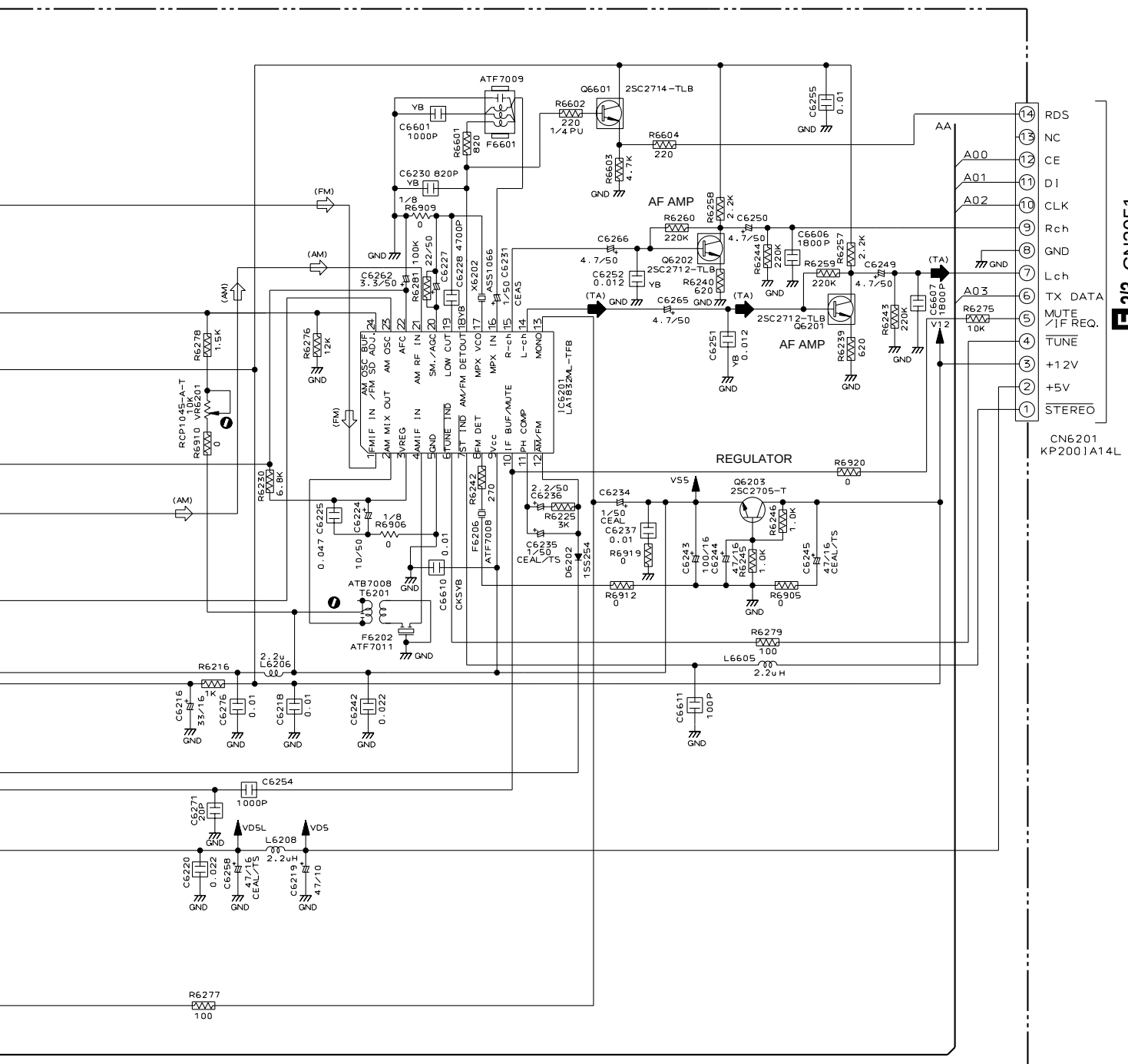
Indicated in Ω , $1/10W \pm 5\%$ Tolerance unless otherwise noted K:K Ω , M:M Ω .

2.CAPACITORS

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

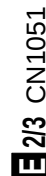
3.DIODES

No mark diode is 1SS254.



E 2/3 CN3051

CN6201
KP2001A14L



VREF:CN8005- Pin3

+5 (CD)
DGND (CD)
CD Rch
AGND
CD Lch
DGND (M)
+5 (M)
CD DRF
CD CS
CD RESET
CD CE
CLAMP
OPEN
INSIDE
DISC123
K11
CD DATA
CD SQUO
CD CLK
CD WRQ
DGND (CD)
DOUT

CN8004
 HLEM22R-1
 (XR-A660, XR-A550)
 HLEM20R-1
 (XR-A330)

1. Resistors :
Indicated in Ω , 1/10W, $\pm 5\%$ tolerance unless otherwise noted k:k Ω M:M Ω .

2. Capacitors :
Indicated in μF /voltage unless otherwise noted p:pF. Indication without voltage is 50V except electronic capacitors.
*Electronic capacitors CEAS000M
AL:CEAL
*Ceramic capacitors:CKSQYF000Z
YB:CKSQYB CH:CCSQCH

3. Inductors:LFA000

D
SW ASSY
(AWZ8429)

3.4 AF ASSY (1/3)

E1/3 AF ASSY
(XR-A660 : XWZ3097)
(XR-A550 : XWZ3077)
(XR-A330 : XWZ3063)

NOTES

ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED

TL : CFTLA
M : CQMB
(OTHER : CKCYF)

CH : CCSQCH
(OTHER : CKSQYB)

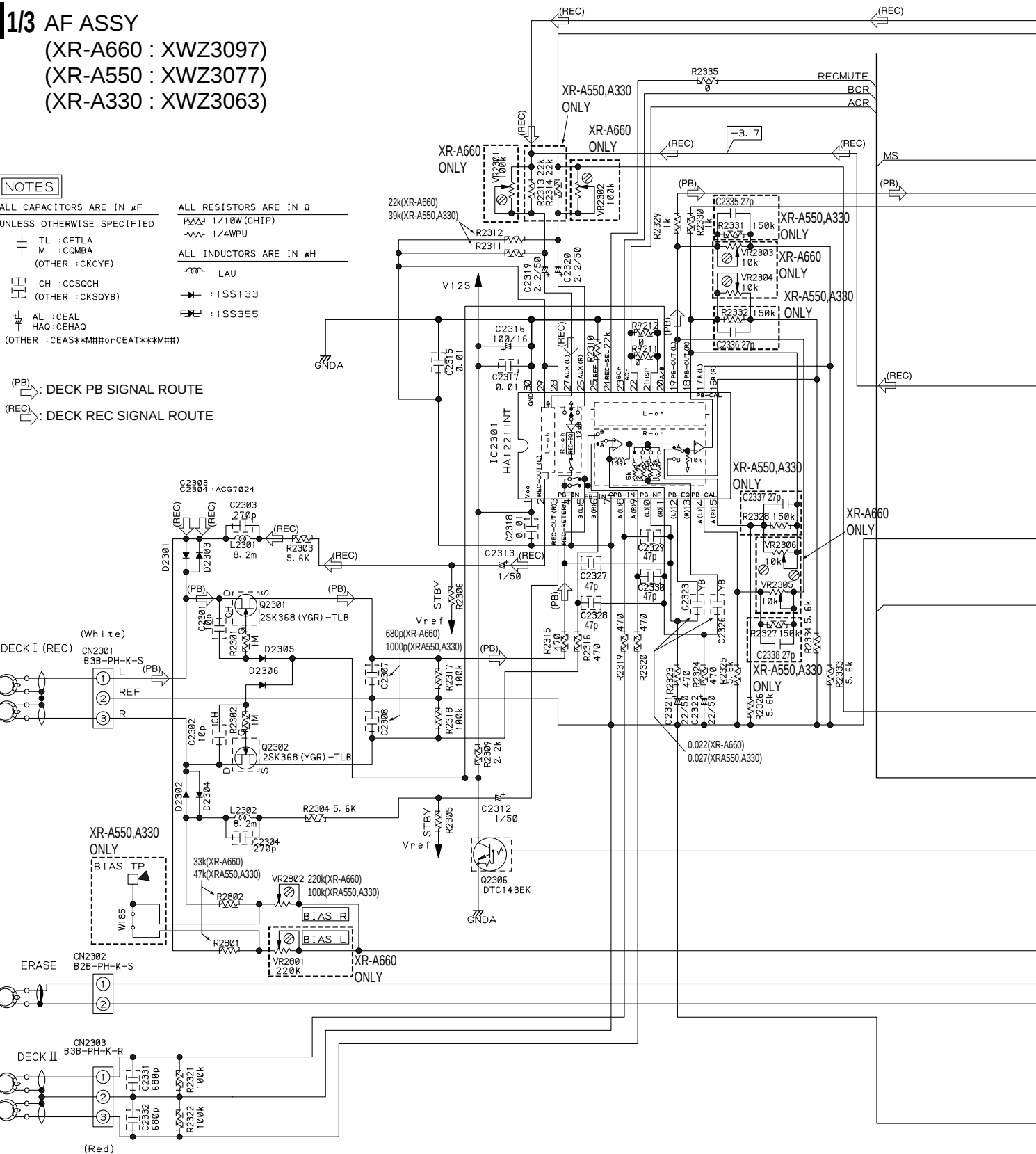
AL : CEAL
HAQ : CEHAQ
(OTHER : CEAS**M##orCEAT**M##)

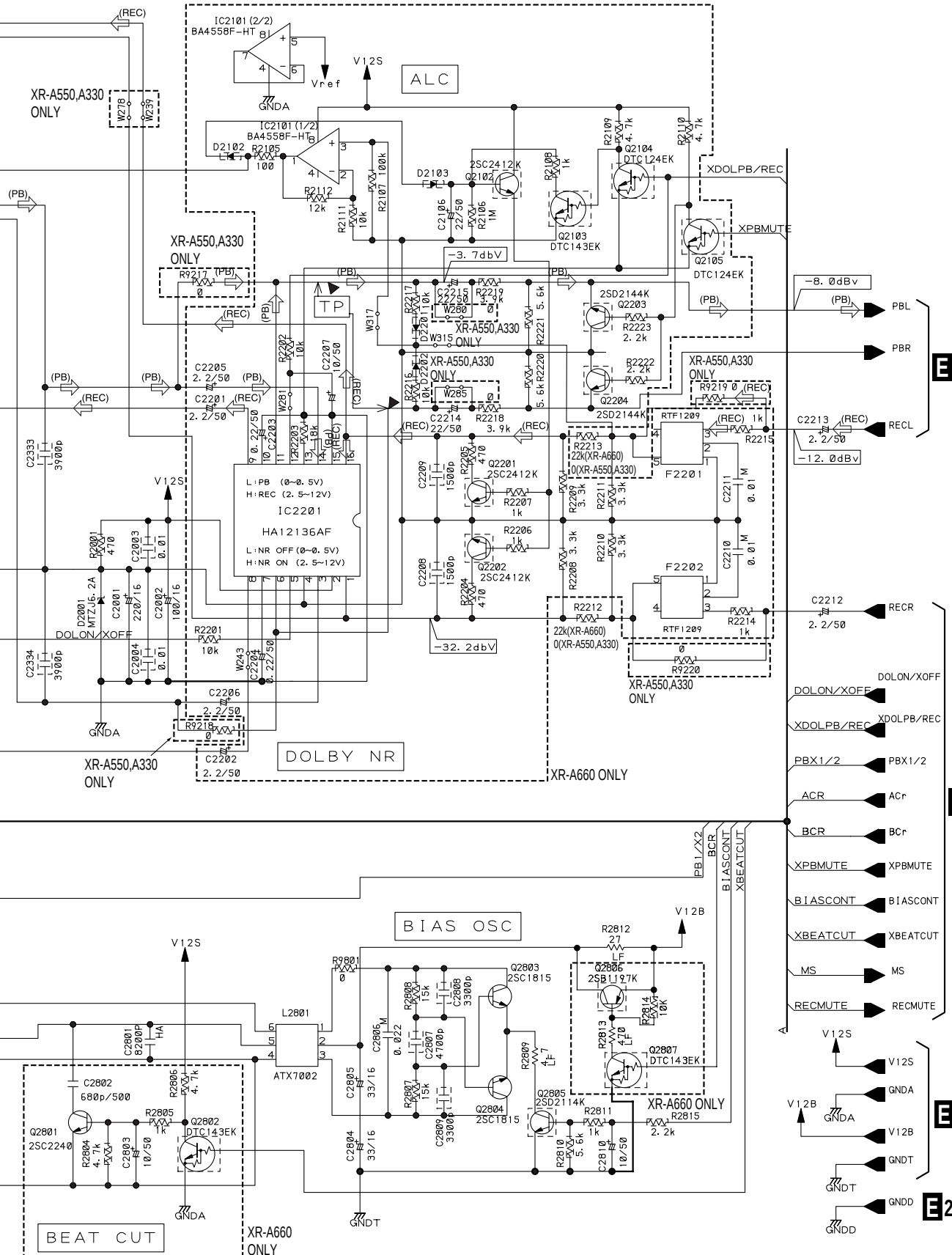
ALL RESISTORS ARE IN Ω
1/10W (CHIP)
1/4WPU

ALL INDUCTORS ARE IN μH
LAU

1SS133
1SS355

(PB) : DECK PB SIGNAL ROUTE
(REC) : DECK REC SIGNAL ROUTE





3.5 AF ASSY (2/3)

2/3 AF ASSY

(XR-A660 : XWZ3097)
(XR-A550 : XWZ3077)
(XR-A330 : XWZ3063)

3/3

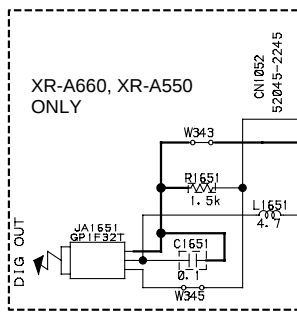
A

B

C

D

B CN8004



- ⇒ AUDIO SIGNAL ROUTE
- (CD) ⇒ CD AUDIO SIGNAL ROUTE
- (TA) ⇒ TUNER AUDIO SIGNAL ROUTE
- (PB) ⇒ DECK PB SIGNAL ROUTE
- (REC) ⇒ DECK REC SIGNAL ROUTE

NOTES

ALL CAPACITORS ARE IN μ F
UNLESS OTHERWISE SPECIFIED

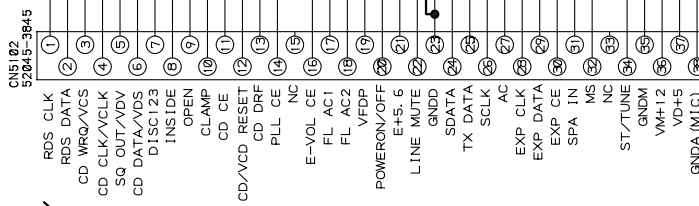
TL : CFTLA
M : CMBA
(OTHER : CKCYF)

CH : CCSQCH
SL : CCSQSL
(OTHER : CKSQYB)

AL : CEAL
HAQ : CEHAQ
(OTHER : CEAS**M#**orCEAT**M#**)

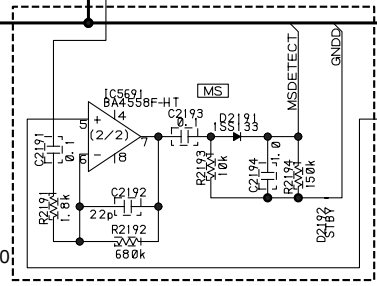
ALL RESISTORS ARE IN Ω
3/4 : 1/10W (CH1P)
4/4 : 1/4WPU

ALL INDUCTORS ARE IN μ H
LAU



1 CN5501

XR-A660 ONLY





3.6 AF (3/3) and SECONDARY ASSEMBLIES

A

B

C

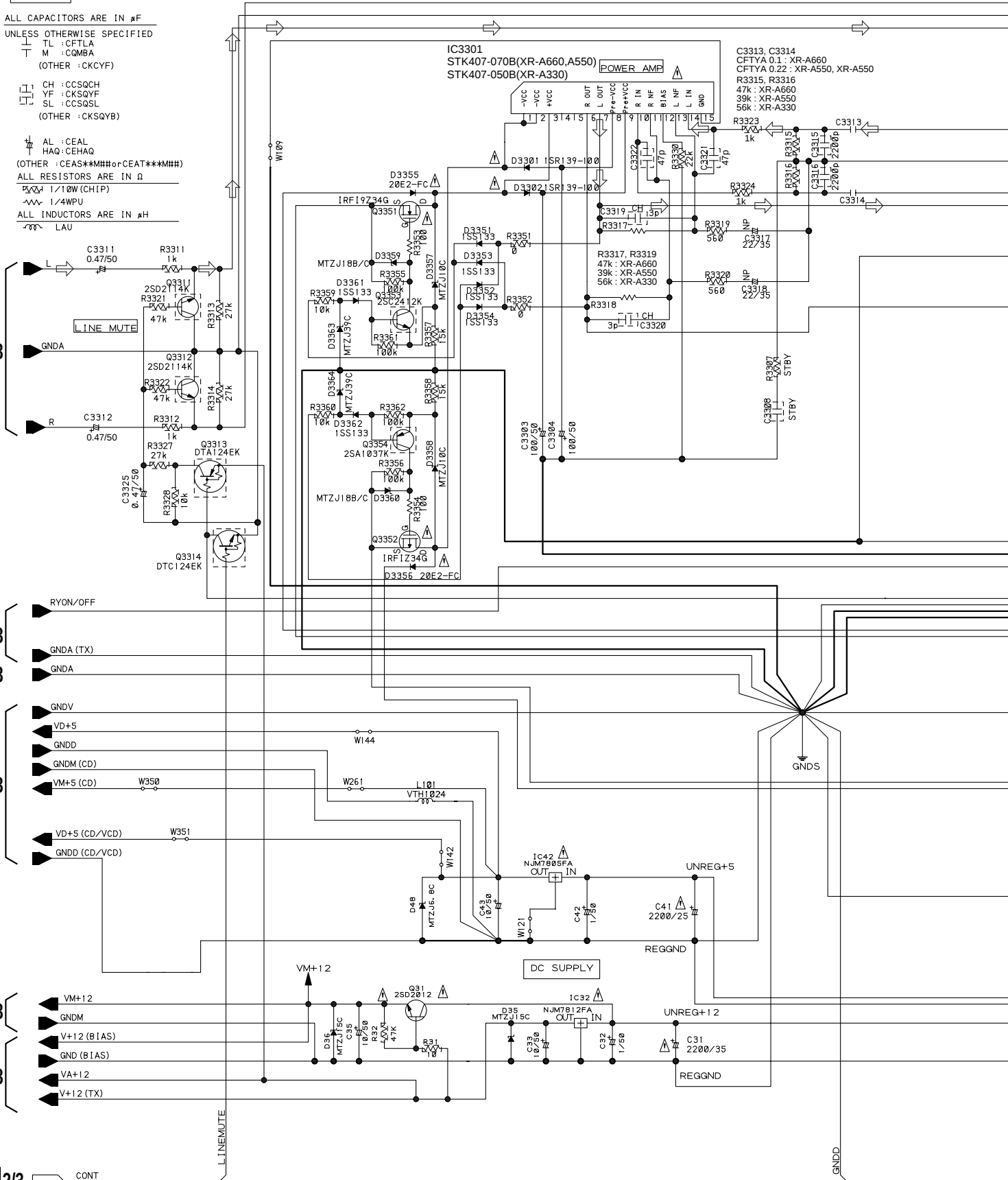
D

E2/3 CONT

26 E3/3

NOTES

ALL CAPACITORS ARE IN μ F
UNLESS OTHERWISE SPECIFIED
TL : CFTLA
M : CQMBA
(OTHER : CKCYF)
CH : CCSQCH
YF : CKSQYF
SL : CCSQSL
(OTHER : CKSQYB)
AL : CEAL
HAQ : CEHAQ
(OTHER : CEAS**MH#orCEAT**MH#)
ALL RESISTORS ARE IN Ω
1/10W (CHIP)
1/4WPU
ALL INDUCTORS ARE IN μ H
LAU



8

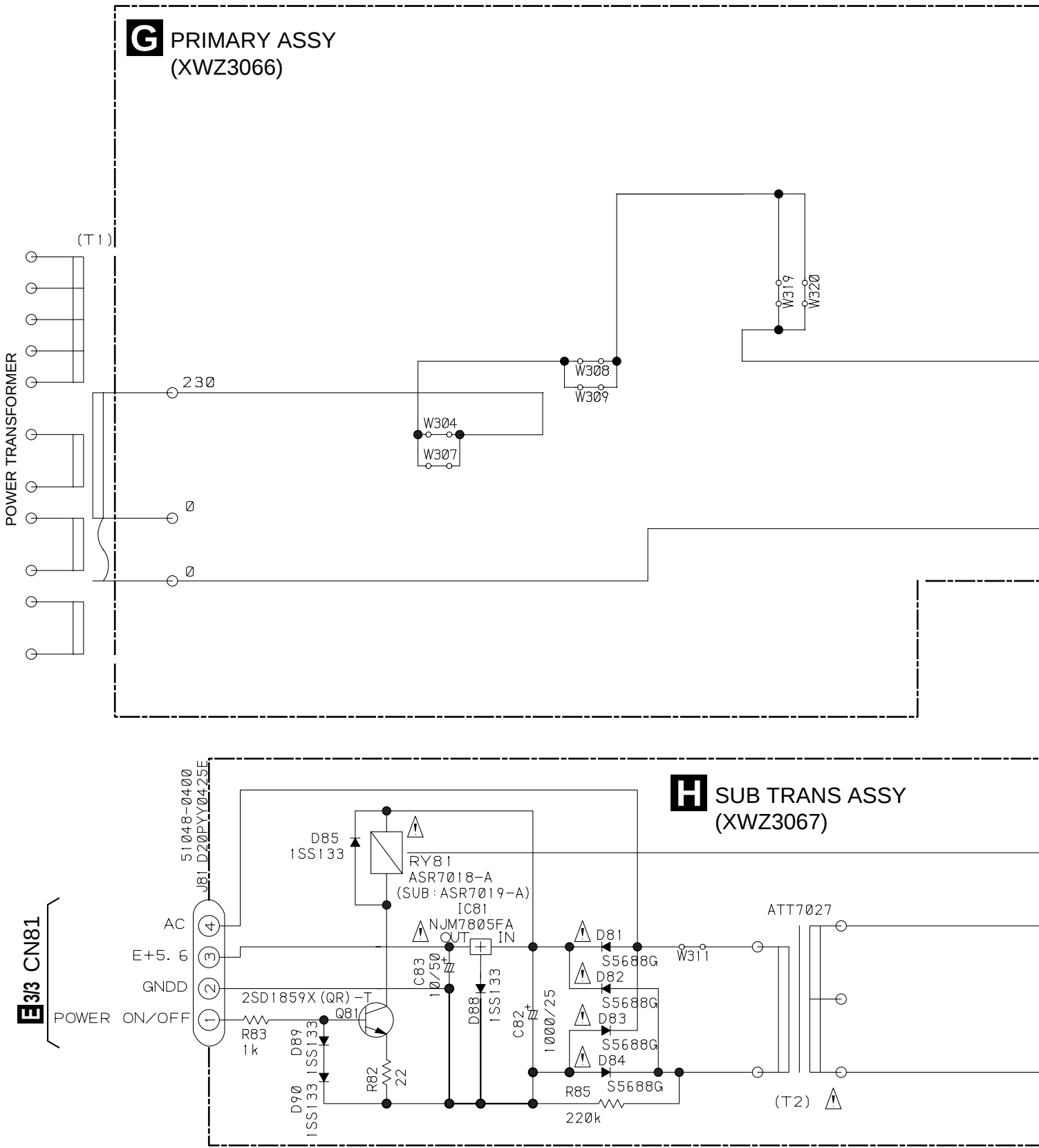
3.7 PRIMARY and SUB TRANS ASSEMBLIES

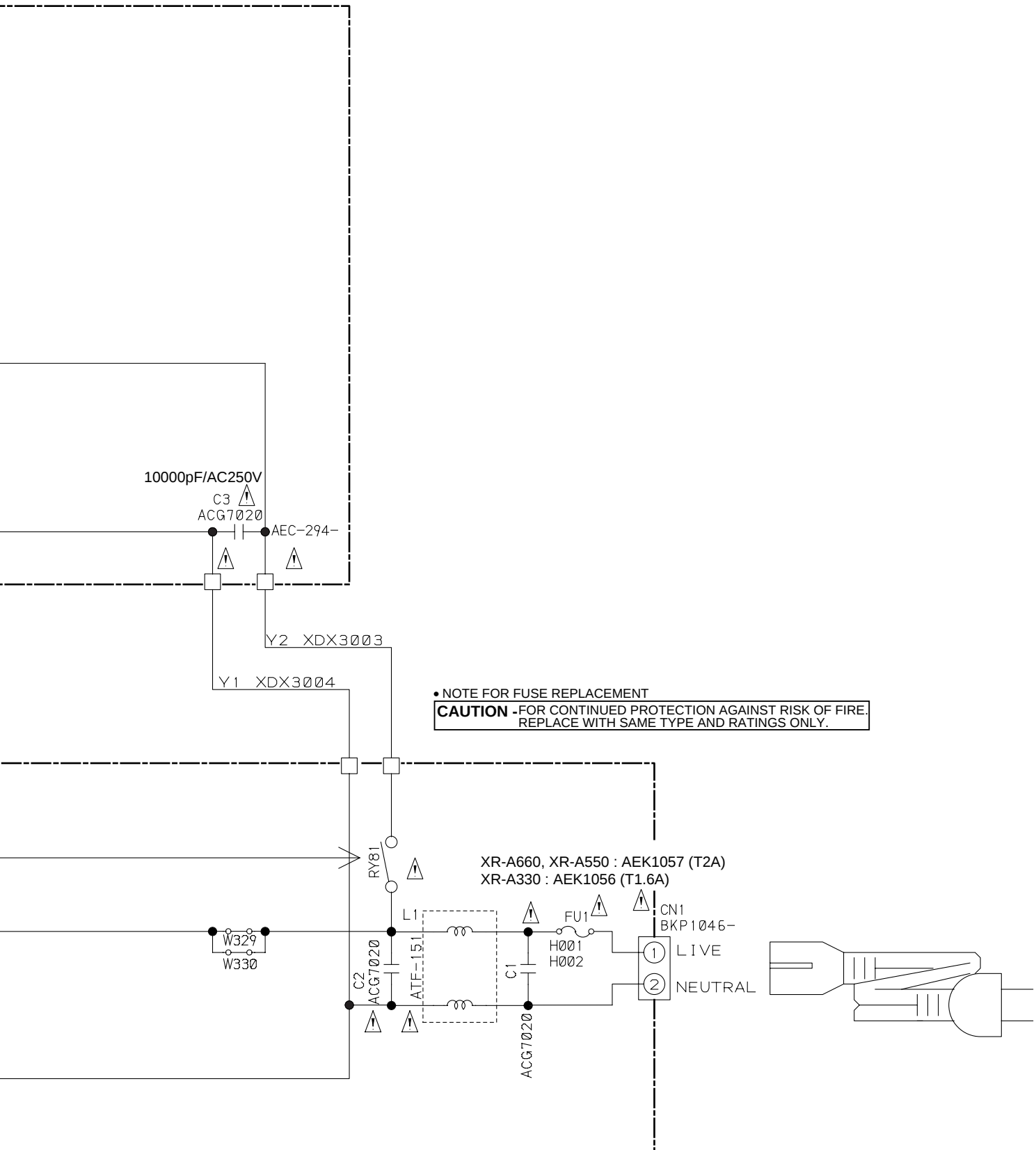
A

B

C

D





3.8 DISPLAY and CD SW LED ASSEMBLIES

I DISPLAY ASSY
(XR-A660 : XWZ3099)
(XR-A550 : XWZ3079)
(XR-A330 : XWZ3065)

DISPLAY ASSY

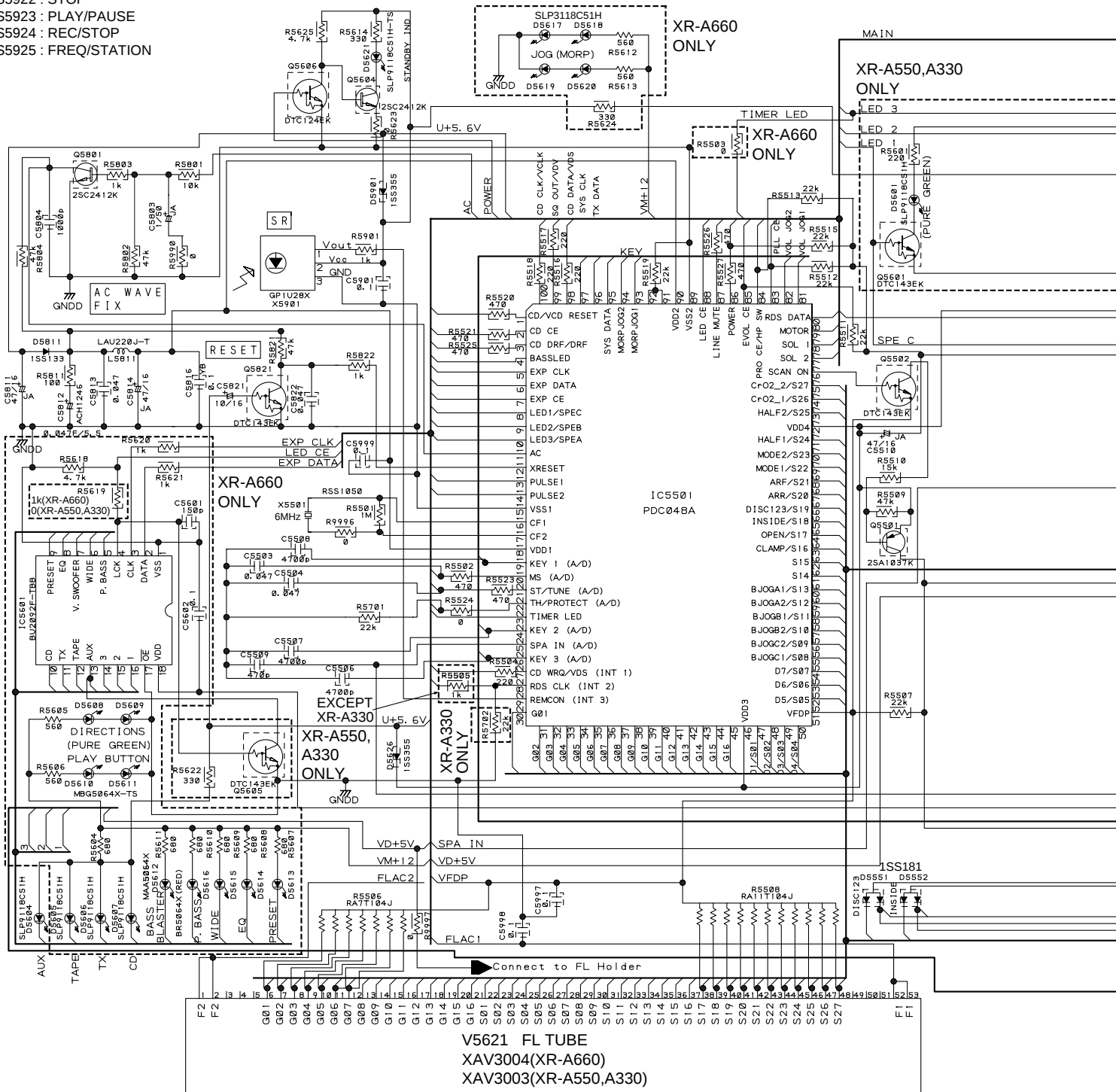
- S5911 : DISPLAY
S5912 : TIMER
S5913 : ENTER
S5914 : P. BASS
S5915 : ZOOM SURROUND
S5916 : BASS BLASTER
S5917 : EQUALIZER
S5918 : PRESET
S5919 : STANDBY/ON
S5920 : TUNING - ◀▶▶▶
S5921 : TUNING + ▶▶▶▶
S5922 : STOP
S5923 : PLAY/PAUSE
S5924 : REC/STOP
S5925 : FREQ/STATION
- S5926 : DOLBY NR ON/OFF
S5927 : ASES/COPY
S5928 : AUX
S5929 : TAPE I/II
S5930 : TUNER/BAND
S5931 : CD
S5932 : DISC 1 SELECT
S5933 : DISC 2 SELECT
S5934 : DISC 3 SELECT
S5935 : DISC CHANGE
S5936 : OPEN/CLOSE

A

B

C

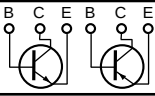
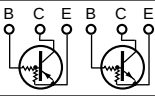
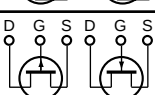
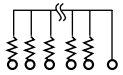
D



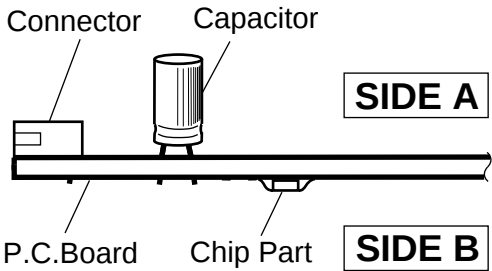
4. PCB CONNECTION DIAGRAM

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

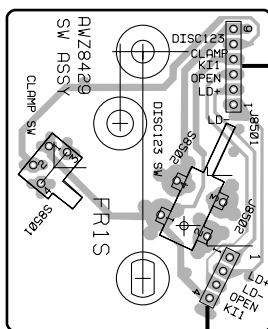
- 3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



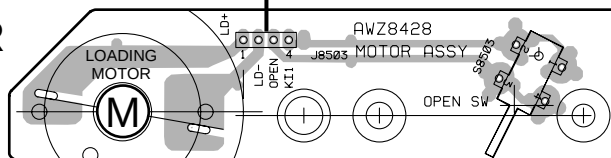
4.2 CD, MOTOR and SW ASSEMBLIES

A

D SW ASSY



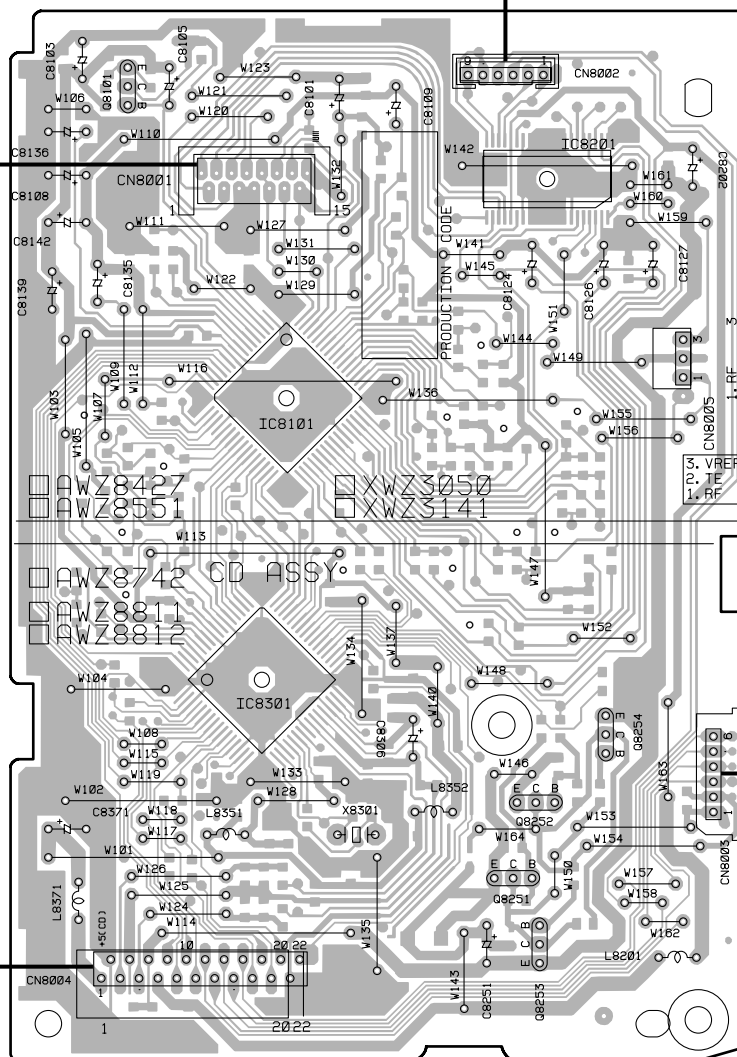
C MOTOR ASSY



SERVO
MECHANISM
ASSY

PICKUP
ASSY

C



Q8101

Q8254

Q8252

Q8251

Q8253

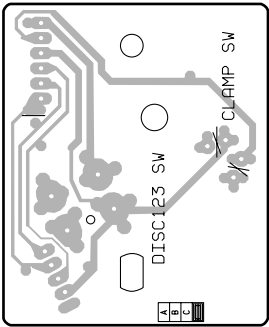
E
CN1051

SIDE A

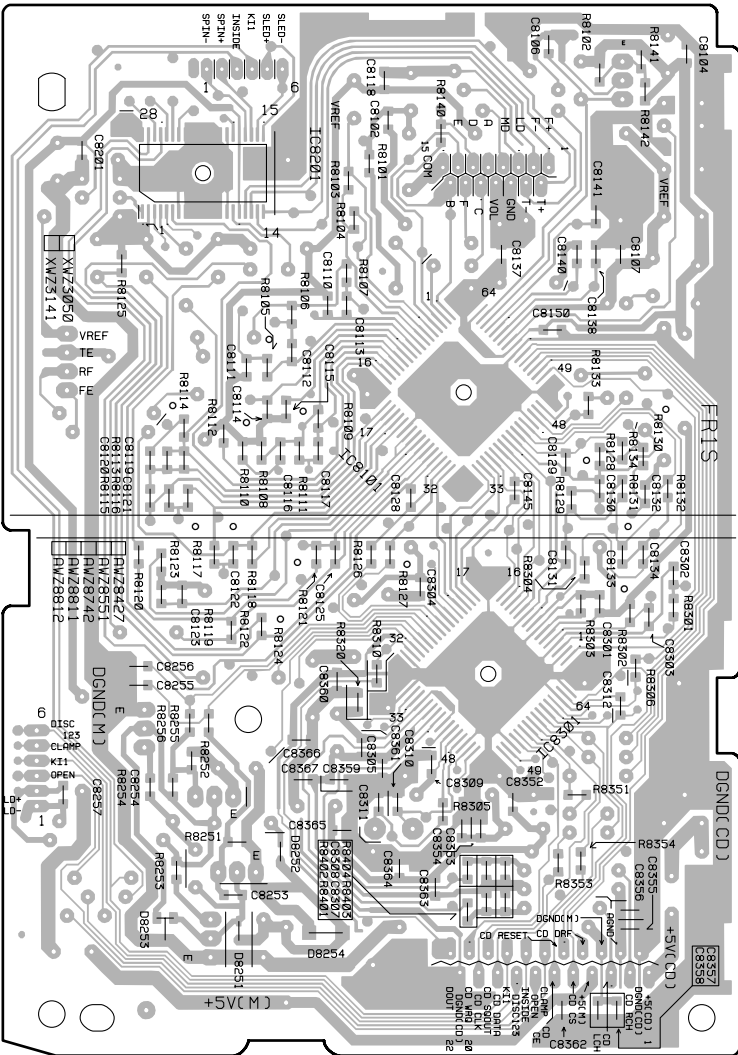
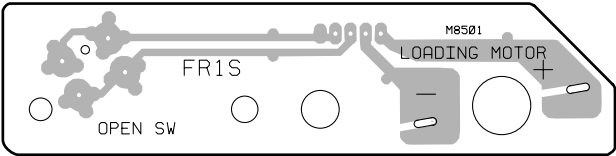
B CD ASSY

(MYXK AND NVXK TYPES : ANP7172-C)
(MYXJ AND NVXJ TYPES : ANP7144-E)

D SW ASSY



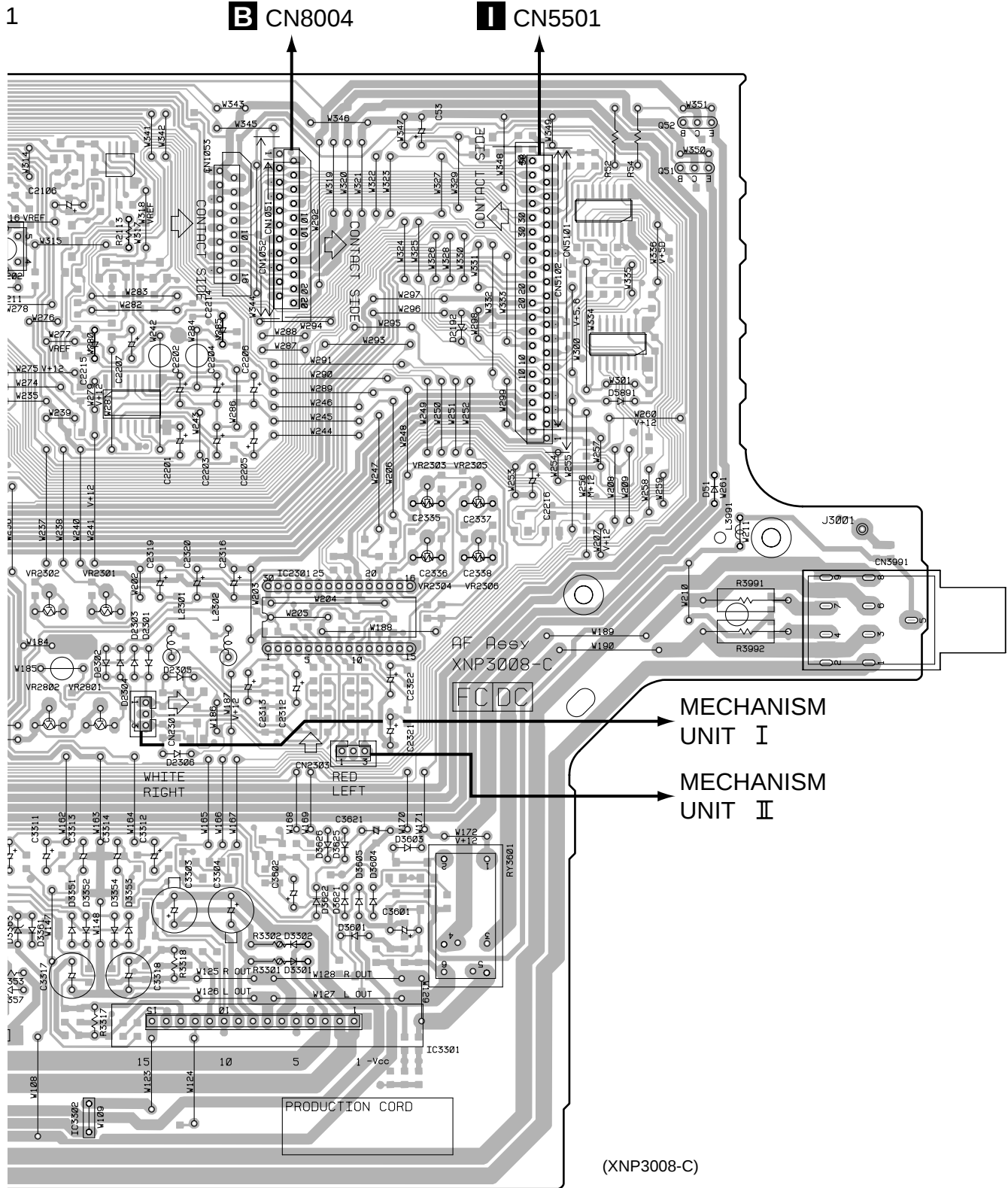
C MOTOR ASSY



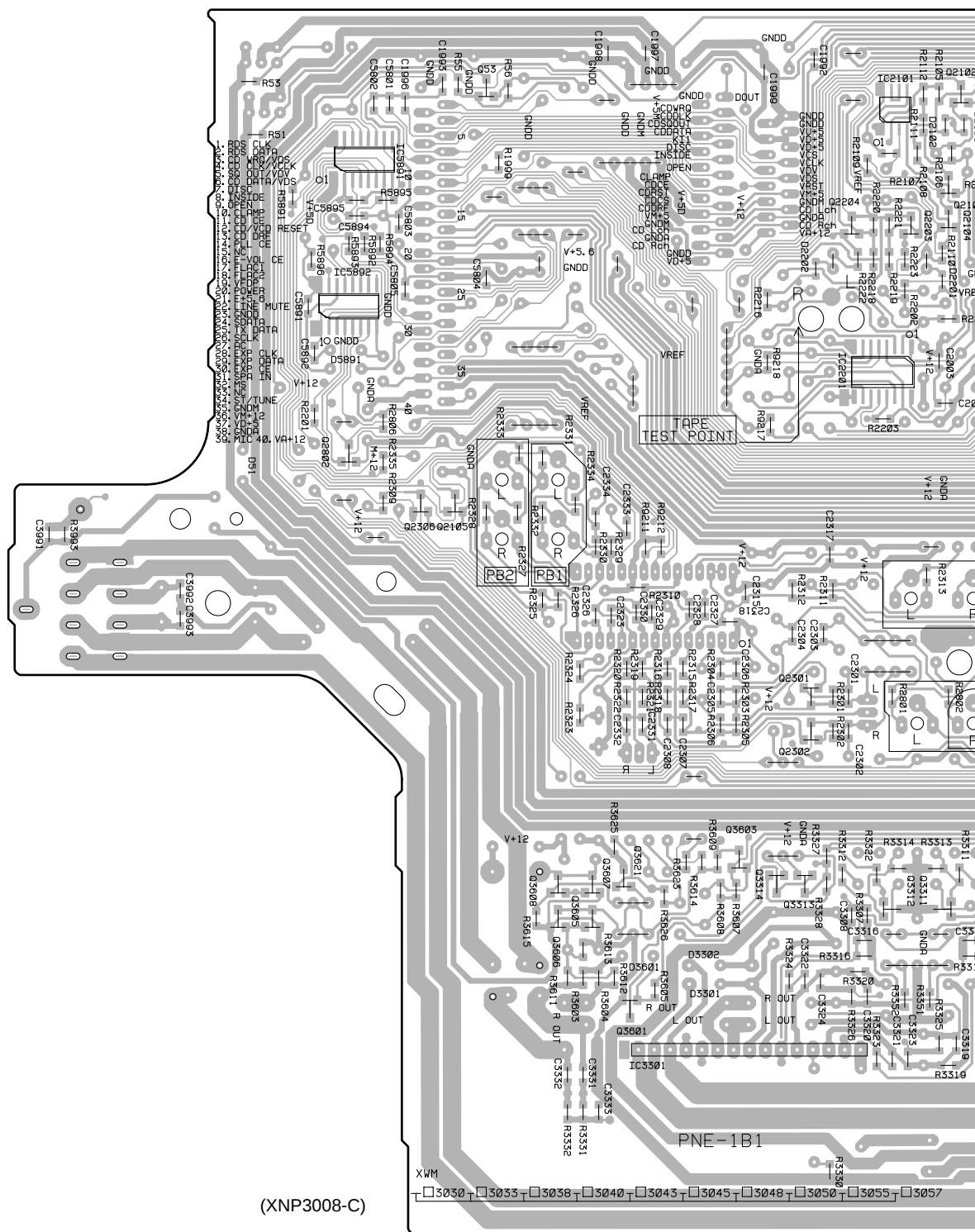
B CD ASSY

(MYXK AND NVXK TYPES : ANP7172-C)
(MYXJ AND NVXJ TYPES : ANP7144-E)

SIDE B



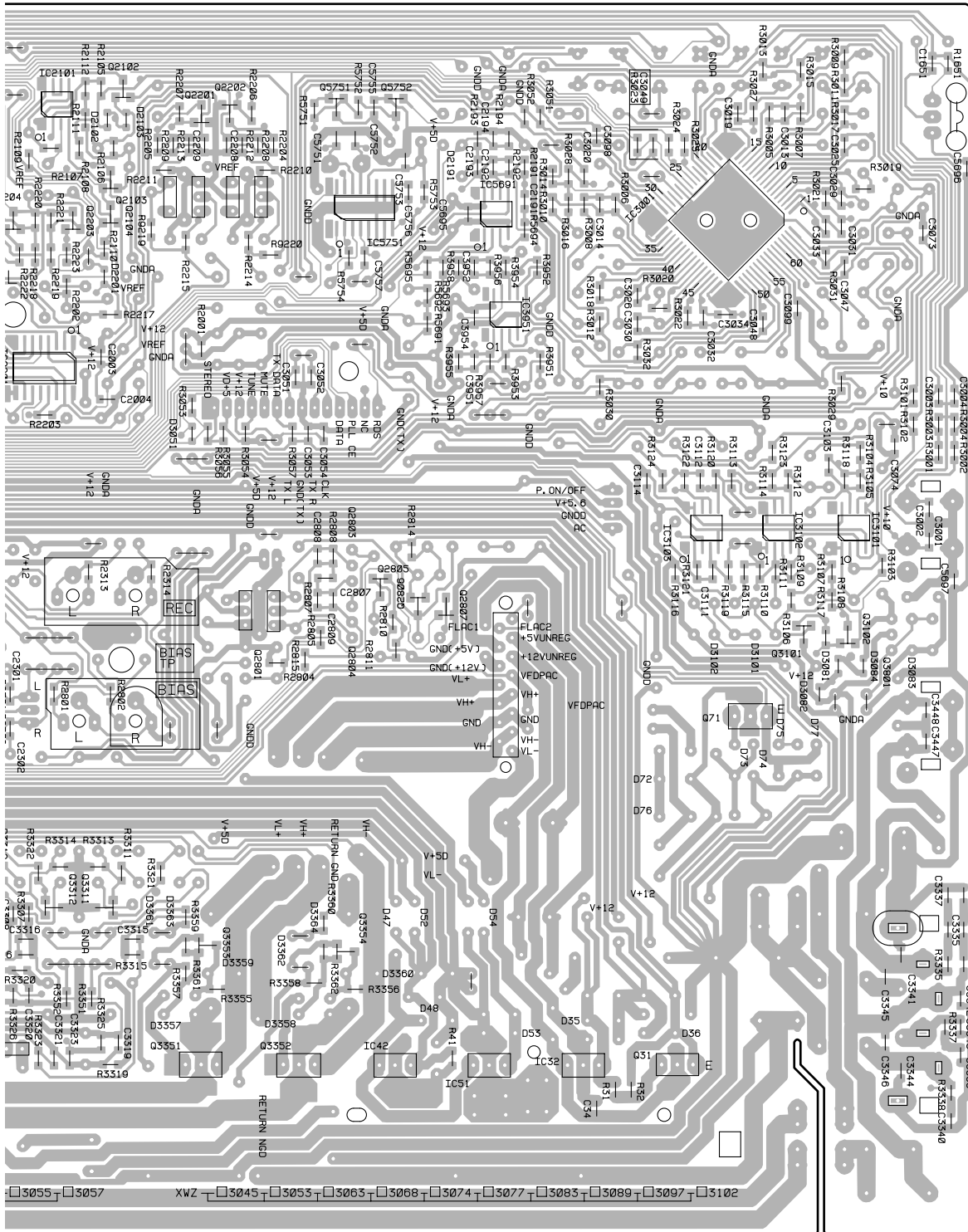
E AF ASSY



SIDE B

IC5891 Q53 IC2101
IC5892 Q3605-Q3608 Q2301 Q2204 Q2203 Q2
Q2802 Q2306 Q2105 Q3601 Q3603 Q2302 IC2201
IC3301 Q3314 Q3313 Q3312 Q331





IC2101 Q2201 Q2202 Q5751 Q5752 IC5691 IC3001
 Q2202 Q2203 Q2103 IC5751 IC3951 IC3101 IC3103
 IC2201 Q3353 Q3354 Q2805 Q2807 IC32 Q31 Q3101 Q3102
 Q3312 Q3311 Q3351 Q3352 IC42 IC51 Q31

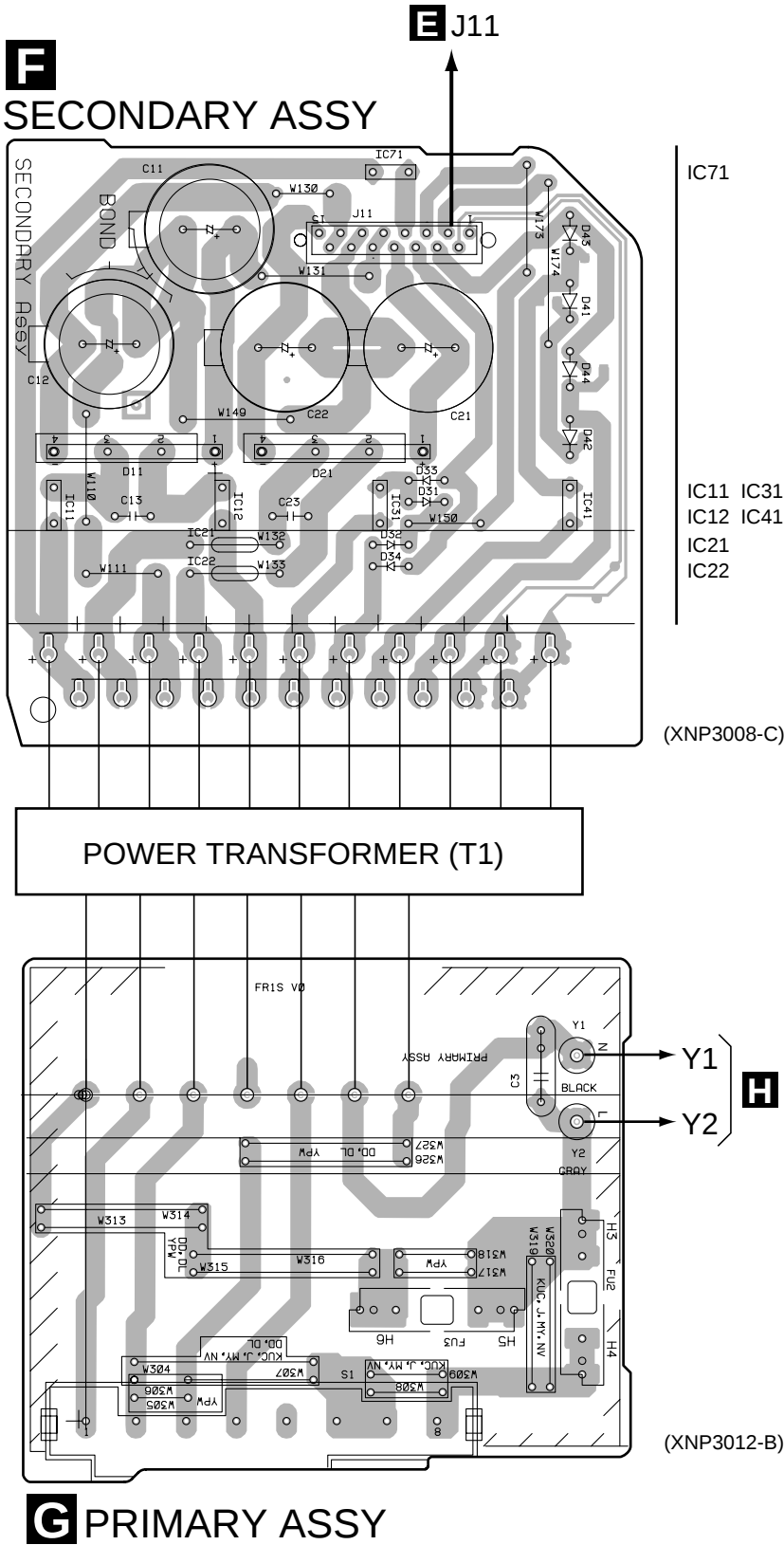
4.4 SECONDARY and PRIMARY ASSEMBLIES

A

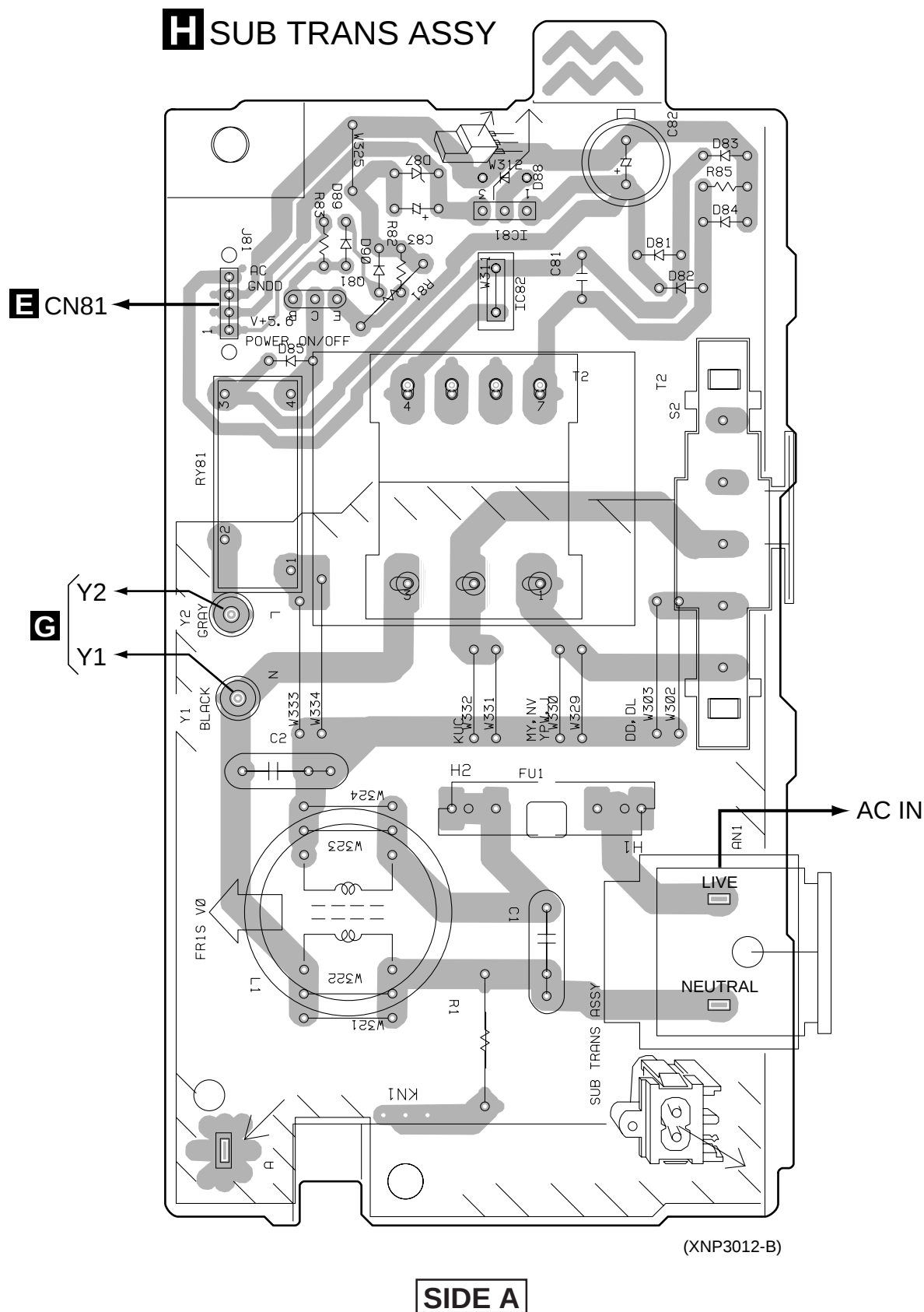
B

C

D

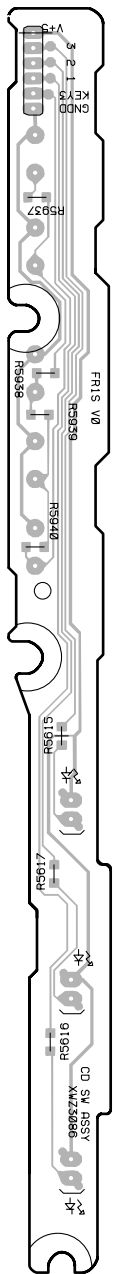
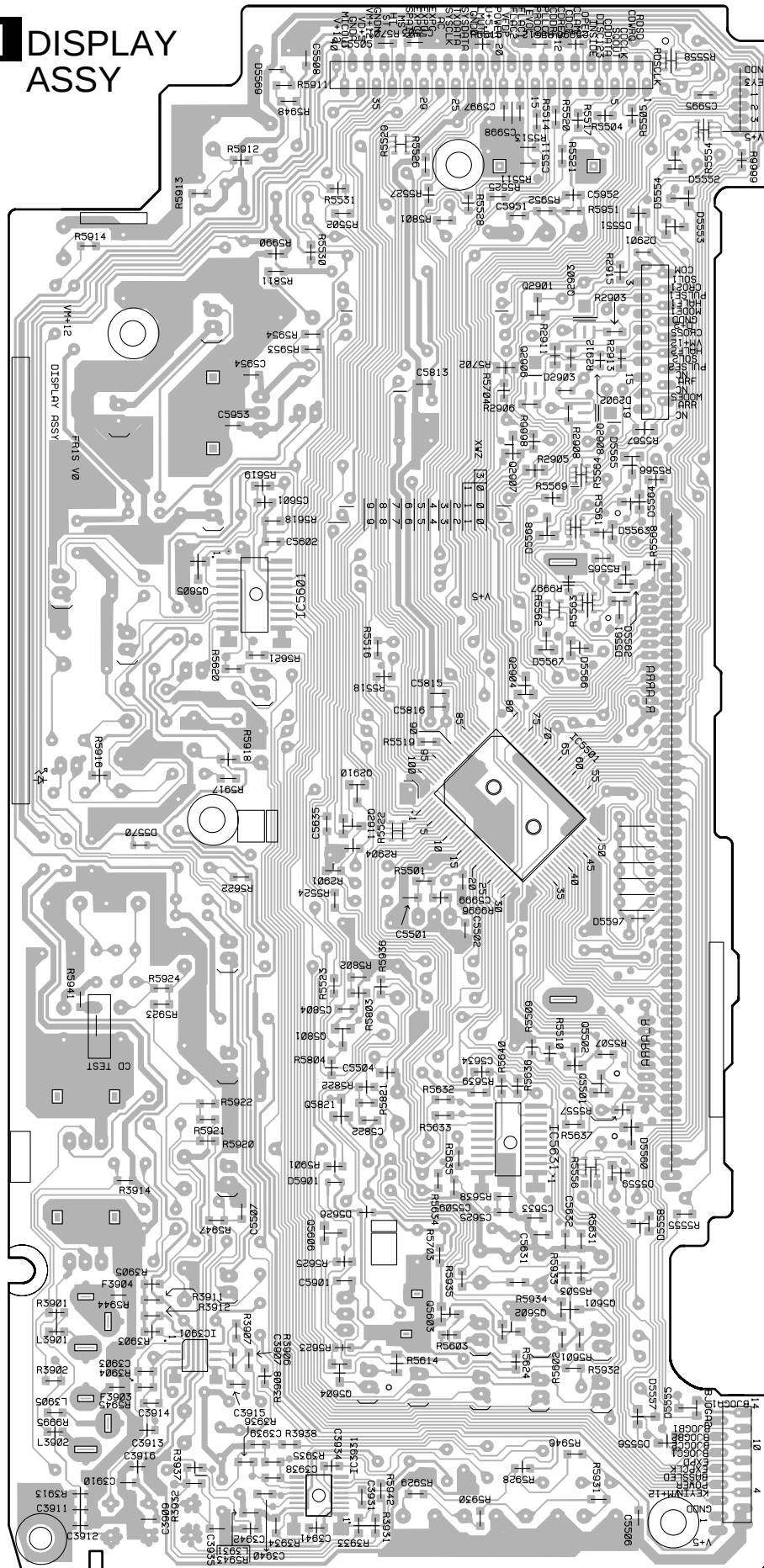


4.5 SUB TRANS ASSY



I DISPLAY
ASSY

Q2903
Q2901
Q2906
Q2908
Q2907
Q5605
IC5601
Q2904
IC5501
Q2910
Q2911
Q5801
Q5502
Q5501
Q5821
IC5631
Q5606
Q5601
Q5604
IC3901
IC3931



J CD SW LED
ASSY

(XNP3012-B)

SIDE B

A

B

C

D

5. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" and ⊗ can not be supplied.

- 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 × 10¹ → 561 RD1/4PU 5 6 1 J

47k Ω → 47 × 10³ → 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 × 10¹ → 5621 RN1/4PC 5 6 2 1 F

LIST OF HOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		XR-A660 /MYXK, NVXK	XR-A550 /MYXJ, NVXJ	XR-A330 /MYXJ, NVXJ	
	FM/AM TUNER MODULE	AXQ7077	AXQ7068	AXQ7068	
NSP	\$M SERVO BOARD ASSY	XWX3005	XWX3005	XWX3002	
⊗	└ CD ASSY	XWZ3141	XWZ3141	XWZ3050	
⊗	└ MOTOR ASSY	AWZ8428	AWZ8428	AWZ8428	
NSP	└ SW ASSY	AWZ8429	AWZ8429	AWZ8429	
NSP	MAIN ASSY	XWM3055	XWM3045	XWM3038	
⊗	└ AF ASSY	XWZ3097	XWZ3077	XWZ3063	
⊗	└ SECONDARY ASSY	XWZ3098	XWZ3098	XWZ3064	
NSP	COMPLEX ASSY	XWM3056	XWM3046	XWM3039	
⊗	└ PRIMARY ASSY	XWZ3066	XWZ3066	XWZ3066	
⊗	└ SUB TRANS ASSY	XWZ3067	XWZ3067	XWZ3067	
⊗	└ DISPLAY ASSY	XWZ3099	XWZ3079	XWZ3065	
⊗	└ CD SW LED ASSY	XWZ3086	Not used	Not used	

Mark No. Description Part No.

A FM/AM TUNER MODULE

(1) CONTRAST TABLE

AXQ7077 and AXQ7068 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7077	AXQ7068	
	C6216	CEAT330M16	CEAS330M16	
	C6219	CEAT470M10	CEAS470M10	
	C6224	CEAT100M50	CEAS100M50	
	C6227	CEAT220M50	CEAS220M16	
	C6231	CEAT1R0M50	CEAS1R0M50	
	C6236	CEAT2R2M50	CEAS2R2M50	
	C6243	CEAT101M16	CEAS101M16	
	C6244	CEAT470M16	CEAS470M16	
	C6249, C6250	CEAT4R7M50	CEAS4R7M50	
	C6265, C6266	CEAT4R7M50	CEAS4R7M50	
	C6262	CEAT3R3M50	CEAS3R3M50	

(2) PARTS LIST FOR AXQ7077

SEMICONDUCTORS

IC6201 LA1832ML
 IC6202 LC72131MD
 Q6102 2SC2223
 Q6203 2SC2705
 Q6201, Q6202 2SC2712

Mark No. Description Part No.

Q6103, Q6214, Q6601 2SC2714
 Q6104, Q6105 2SK302
 Q6101 3SK194
 Q6204 DTA124ES
 Q6205 DTC124EK

D6202 1SS254
 D6101-D6104 1SV228

COILS AND FILTERS

L6106 ATC1003
 L6105 ATC1015
 L6101 ATC1016
 L6102 ATC1017
 L6103 ATC1018

L6104 ATC1019
 F6203 ATF-119
 F6206 ATF7008
 F6601 ATF7009
 F6204 ATF7010

F6202 ATF7011
 L6107 ATH1043
 L6603 LAU220J
 L6206, L6208, L6605 LAU2R2J

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

TRANSFORMERS

T6201	ATB7008
T6101	ATE7002

CAPACITORS

C6113, C6212, C6274, C6275, C6611	CCSQCH101J50
C6116, C6208, C6221	CCSQCH150J50
C6222	CCSQCH180J50
C6271	CCSQCH200J50
C6117	CCSQCH330J50

C6608	CCSQCH680J50
C6118	CCSQCH8R0D50
C6111, C6122	CCSQCK1R0C50
C6112, C6127	CCSQCK2R0C50
C6105	CCSQSL471J50

C6101	CCSQTH110J50
C6119	CCSQTH150J50
C6109	CCSQTH270J50
C6107, C6110	CCSQTH300J50
C6106	CCSQTH330J50

C6234, C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAT100M50
C6243	CEAT101M16
C6231	CEAT1R0M50

C6227	CEAT220M50
C6236	CEAT2R2M50
C6216	CEAT330M16
C6262	CEAT3R3M50
C6219	CEAT470M10

C6244	CEAT470M16
C6249, C6250, C6265, C6266	CEAT4R7M50
C6258	CEJA470M16
C6215	CFTLA103J50
C6214	CFTLA224J50

C6115, C6125, C6126, C6211, C6254	CKSQYB102K50
C6601	CKSQYB102K50
C6102, C6114, C6121, C6123, C6124	CKSQYB103K50
C6210, C6213, C6237, C6267, C6276	CKSQYB103K50
C6279, C6281, C6604	CKSQYB103K50

C6251, C6252	CKSQYB123K50
C6606, C6607	CKSQYB182K50
C6203, C6259	CKSQYB223K50
C6228	CKSQYB472K50
C6209	CKSQYB473K50

C6230	CKSQYB821K50
C6218, C6223, C6255	CKSQYF103Z50
C6220, C6226, C6242, C6256	CKSQYF223Z50
C6225	CKSQYF473Z50
C6610	CKSYB103K50

RESISTORS

R6602	RD1/4PU221J
R6115, R6119, R6123, R6127, R6129	RS1/8S0R0J
R6906, R6909, R6911	RS1/8S0R0J
R6112	RS1/8S473J
VR6201 (10kΩ)	RCP1045

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

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

OTHERS

BN6202	ANTENNA TERMINAL	AKA7001
X6202	CERAMIC RESONATOR (456kHz)	ASS1066
X6201	CRYSTAL RESONATOR (7.2000MHz)	ASS1093
CN6201	14P SOCKET	KP2001A14L
	AM RF TUNING BLOCK	AXX7042

B CD ASSY

(1) CONTRAST TABLE

XWZ3141 and XWZ3050 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3141	XWZ3050	
	C8310	CCSQCH180J50	CCSQCH150J50	
	R8305	RS1/10S331J	RS1/10S0R0J	
	R8310	RS1/10S102J	Not used	
	CN8004	HLEM22R-1	HLEM20R-1	
	X8301 (16.9344MHz)	PSS1008	DSS1083	

(2) PARTS LIST FOR XWZ3141

SEMICONDUCTORS

IC8201	BA5923FP
IC8101	LA9241ML
IC8301	LC78622NE
Q8101	2SA1048
Q8251, Q8252	2SB1237X

Q8253, Q8254	2SD1858X
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, C8311	CCSQCH150J50
C8310	CCSQCH180J50
C8131	CCSQCH300J50

C8129	CCSQCK1R0C50
C8142	CEAL101M6R3
C8127	CEAL1R0M50
C8126, C8139	CEAL470M16
C8135	CEAL4R7M16

C8124	CEALR47M50
C8136	CEAT100M50
C8108, C8306, C8371	CEAT101M10
C8202	CEAT101M25
C8101	CEAT3R3M50

C8105	CEAT470M16
C8109	CEATR22M50
C8106, C8119, C8133, C8307, C8308	CKSQYB102K50
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

XR-A660, XR-A550, XR-A330

Mark	No.	Description	Part No.
	C8125		CKSQYB221K50
	C8107		CKSQYB223K50
	C8110		CKSQYB331K50
	C8115, C8128		CKSQYB332K50
	C8113		CKSQYB333K25
	C8112, C8141		CKSQYB334K16
	C8116, C8140, C8355, C8357		CKSQYB473K50
	C8118, C8255–C8257, C8301		CKSQYF104Z25
	C8304, C8305		CKSQYF104Z25

RESISTORS

All Resistors	RS1/10S□□□□
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OTHERS

CN8003	6P JUMPER CONNECTOR	52151-0610
CN8002	KR CONNECTOR	B6B-PH-K-S
CN8005	3P SIDE POST	BS3P-SHF-1AA
CN8004	FFC CONNECTOR 22P	HLEM22R-1
CN8001	FFC CONNECTOR	SLW15S-1C7
X8301	CERAMIC RESONATOR (16.9344MHz)	PSS1008

C MOTOR ASSY

SWITCHES AND RELAYS

S8503	ASG7009
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OTHERS

J8502	JUMPER WIRE 4P MOTOR PULLEY CARRIAGE MOTOR	D20PWW0405E PNW1634 VXM1033
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D SW ASSY

SWITCHES AND RELAYS

S8502	ASG7009
S8501	DSG1017

OTHERS

J8501	JUMPER WIRE 6P	D20PWY0610E
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E AF ASSY (XWZ3097)

SEMICONDUCTORS

IC2101, IC3101-IC3103, IC5691	BA4558F-HT
IC5751	BU1923F
IC5891, IC5892	BU4094BCF
IC2201	HA12136AF
IC2301	HA12211NT
IC3001	LC75394NED
△ IC42	NJM7805FA
△ IC32	NJM7812FA
△ IC3301	STK407-070B
Q3354, Q3601, Q3621, Q5751	2SA1037K
△ Q71	2SA965
Q2806	2SB1197K
Q2803, Q2804	2SC1815
Q2801	2SC2240
Q2102, Q2201, Q2202, Q3101, Q3102	2SC2412K
Q3353, Q3603, Q3605–Q3608	2SC2412K
Q3081	2SD1858X
△ Q31	2SD2012
Q2203, Q2204, Q2805, Q3311, Q3312	2SD2114K
Q2301, Q2302	2SK368

Mark	No.	Description	Part No.
	Q3313		DTA124EK
	Q2104, Q2105, Q3314, Q5752		DTC124EK
	Q2103, Q2306, Q2802, Q2807		DTC143EK
△	Q3351		IRFI9Z34G
△	Q3352		IRFIZ34G
△	D3301, D3302		1SR139-100
	D2191, D2301–D2306, D3101, D3102		1SS133
	D3351–D3354, D3361, D3362, D3601		1SS133
	D3603, D3604, D3621, D3622		1SS133
	D3625, D3626, D5891, D73		1SS133
△	D2102, D2103, D2201, D2202, D3051		1SS355
	D3355, D3356		20E2-FC
	D3357, D3358		MTZJ10C
	D3083		MTZJ11C
	D35, D36		MTZJ15C
	D3359, D3360		MTZJ18B
	D74		MTZJ33C
	D3363, D3364		MTZJ39C
	D2001		MTZJ6.2A
	D48		MTZJ6.8C
△	D75		MTZJ8.2B
	D71, D72		S5688G

COILS AND FILTERS

L3331, L3332	ATH-133
L2801	ATX7002
L5751	LAU1R0J
L1651	LAU4R7J
L2301, L2302	LTA822J
F2201, F2202	RTF1209
L101	VTH1024

SWITCHES AND RELAYS

RY3601	ASR7008
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CAPACITORS

C3345, C3346 (10000pF)	ACG7021
C2303, C2304 (270pF)	ACG7024
C2301, C2302	CCSQCH100D50
C3047, C3048	CCSQCH101J50
C2192	CCSQCH220J50
C5751, C5752, C5755	CCSQCH270J50
C5757	CCSQCH271J50
C3319, C3320	CCSQCH3R0C50
C2327–C2330, C3321, C3322	CCSQCH470J50
C5756	CCSQCH561J50
C3311, C3312	CEANLR47M50
C3317, C3318	CEANP220M35
C3621	CEANP2R2M2A
C2207, C2803, C2810, C3045, C3046	CEAT100M50
C3081, C3091, C33, C35, C3602	CEAT100M50
C43, C5758	CEAT100M50
C2002, C2316	CEAT101M16
C71	CEAT101M2A
C3303, C3304	CEAT101M50
C2312, C2313, C3035, C3036	CEAT1R0M50
C3107, C3108, C32, C42	CEAT1R0M50
C2106, C2214, C2215, C2321, C2322	CEAT220M50
C72	CEAT220M50
C2001, C3601	CEAT221M16
△ C41	CEAT222M25

Mark	No.	Description	Part No.
△	C31		CEAT222M35
	C2201, C2202, C2205, C2206		CEAT2R2M50
	C2212, C2213, C2319, C2320		CEAT2R2M50
	C3005-C3010, C3104		CEAT2R2M50
	C2804, C2805, C3105, C5754		CEAT330M16
	C3106, C3109		CEAT4R7M50
	C3015-C3018, C3021, C3022		CEATR10M50
	C3039, C3040		CEATR10M50
	C2203, C2204, C3011, C3012		CEATR22M50
	C3101, C3102		CEATR22M50
	C3325		CEATR47M50
	C3027, C3028		CFTLA154J50
	C3023, C3024		CFTLA474J50
	C3313, C3314		CFTYA104J50
	C2802		CKCYB681K2H
	C5892		CKSQYB102K50
	C2003, C2004, C2315, C2317, C2318		CKSQYB103K50
	C3053, C3098, C3103, C3447, C3448		CKSQYB103K50
	C5753		CKSQYB103K50
	C1651, C2191, C2193, C3099, C5891		CKSQYB104K25
	C2194		CKSQYB105K10
	C3033, C3034		CKSQYB122K50
	C2208, C2209		CKSQYB152K50
	C3003, C3004		CKSQYB221K50
	C3315, C3316		CKSQYB222K50
	C2323, C2326		CKSQYB223K50
	C2808, C2809		CKSQYB332K50
	C2333, C2334		CKSQYB392K50
	C2807, C3051, C3052		CKSQYB472K50
	C3111, C3112		CKSQYB473K25
	C3029, C3030		CKSQYB563K25
	C2307, C2308, C2331, C2332		CKSQYB681K50
	C3013, C3014		CKSQYB681K50
	C3019, C3020, C3031, C3032		CKSQYB682K50
	C3025, C3026		CKSQYB683K25
	C3331-C3333, C3335-C3340		CKSQYF104Z50
	C2801		CQHA822J2A
	C2210, C2211		CQMBA103J50
	C2806		CQMBA223J50

RESISTORS

	R2812		RD1/2LMF270J
	R2813		RD1/2LMF471J
	R2809		RD1/2LMF4R7J
	R72		RD1/2PM562J
	R3333, R3334		RD1/4LMF101J
	R3353, R3354		RD1/4PU101J
	R73		RD1/4PU103J
	R3081		RD1/4PU221J
	R3317, R3318		RD1/4PU473J
△	R3991, R3992		RS2LMF331J
	R3601, R3602		RS3LMFR22J
	VR2303-VR2306 (10kΩ)		VCP1156
	VR2301, VR2302 (100kΩ)		VCP1162
	VR2801, VR2802 (220kΩ)		VCP1164
	Other Resistors		RS1/10S□□□□

OTHERS

	15P CABLE HOLDER	51063-1505
CN1052	22P FFC CONNECTOR	52045-2245
CN5102	38P FFC CONNECTOR	52045-3845
CN81	4P JUMPER CONNECTOR	52147-0410
CN3331	4P SPEAKER TERMINAL	AKE7001

Mark	No.	Description	Part No.
	X5751	CRYSTAL RESONATOR (4.332MHz)	ASS7004
	CN2302	KR CONNECTOR	B2B-PH-K-S
	CN2303	KR CONNECTOR	B3B-PH-K-R
	CN2301	KR CONNECTOR	B3B-PH-K-S
	JA1651	OPTICAL LINK OUT	GP1F32T
	CN3051	14P PLUG	KM200IB14
	JA3001, JA3441	2P PIN JACK	VKB1060
	CN3991	HEADPHONE JACK	XKN3001

AF ASSY (XWZ3077)

SEMICONDUCTORS

	IC5691		BA4558F-HT
	IC5751		BU1923F
	IC5891		BU4094BCF
	IC2301		HA12211NT
	IC3001		LC75394NED
△	IC42		NJM7805FA
△	IC32		NJM7812FA
△	IC3301		STK407-070B
△	Q3354, Q3601, Q3621, Q5751		2SA1037K
	Q71		2SA965
	Q2803, Q2804		2SC1815
	Q3353, Q3603, Q3605-Q3608		2SC2412K
	Q3081		2SD1858X
△	Q31		2SD2012
	Q2805, Q3311, Q3312		2SD2114K
	Q2301, Q2302		2SK368
	Q3313		DTA124EK
	Q3314, Q5752		DTC124EK
△	Q2306		DTC143EK
	Q3351		IRFI9234G
△	Q3352		IRFIZ34G
△	D3301, D3302		1SR139-100
	D2301-D2306, D3351-D3354		1SS133
	D3361, D3362, D3601, D3603, D3604		1SS133
	D3621, D3622, D3625, D3626, D5891		1SS133
	D73		1SS133
△	D3051		1SS355
	D3355, D3356		20E2-FC
	D3357, D3358		MTZJ10C
	D3083		MTZJ11C
	D35, D36		MTZJ15C
	D3359, D3360		MTZJ18B
	D74		MTZJ33C
	D3363, D3364		MTZJ39C
	D2001		MTZJ6.2A
	D48		MTZJ6.8C
△	D75		MTZJ8.2B
	D71, D72		S5688G

COILS AND FILTERS

	L3331, L3332		ATH-133
	L2801		ATX7002
	L5751		LAU1R0J
	L1651		LAU4R7J
	L2301, L2302		LTA822J
	L101		VTH1024

SWITCHES AND RELAYS

	RY3601		ASR7008
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XR-A660, XR-A550, XR-A330

Mark	No.	Description	Part No.
CAPACITORS			
	C3345, C3346 (10000pF)		ACG7021
	C2303, C2304 (270pF)		ACG7024
	C2335–C2338		CCCCH270J50
	C2301, C2302		CCSQCH100D50
	C3047, C3048		CCSQCH101J50
	C5751, C5752, C5755		CCSQCH270J50
	C5757		CCSQCH271J50
	C3319, C3320		CCSQCH3R0C50
	C2327–C2330, C3321, C3322		CCSQCH470J50
	C5756		CCSQCH561J50
	C3311, C3312		CEANLR47M50
	C3317, C3318		CEANP220M35
	C3621		CEANP2R2M2A
	C2810, C3045, C3046, C3081, C3091		CEAT100M50
	C33, C35, C3602, C43, C5758		CEAT100M50
	C2002, C2316		CEAT101M16
	C71		CEAT101M2A
	C3303, C3304		CEAT101M50
	C2312, C2313, C32, C42		CEAT1R0M50
	C2321, C2322, C72		CEAT220M50
△	C2001, C3601		CEAT221M16
△	C41		CEAT222M25
	C31		CEAT222M35
	C2212, C2213, C2319, C2320		CEAT2R2M50
	C3005–C3010		CEAT2R2M50
	C2804, C2805, C5754		CEAT330M16
	C3021, C3022		CEATR10M50
	C3011, C3012, C3015–C3018		CEATR22M50
	C3039, C3040		CEATR22M50
	C3325		CEATR47M50
	C3027, C3028		CFTLA154J50
	C3023, C3024		CFTLA474J50
	C3313, C3314		CFTYA224J50
	C2307, C2308		CKSQYB102K50
	C2003, C2004, C2315, C2317, C2318		CKSQYB103K50
	C3053, C3098, C5753		CKSQYB103K50
	C1651, C3099, C5891		CKSQYB104K25
	C3033, C3034		CKSQYB122K50
	C3003, C3004		CKSQYB221K50
	C3315, C3316		CKSQYB222K50
	C2323, C2326		CKSQYB273K50
	C2808, C2809		CKSQYB332K50
	C2333, C2334		CKSQYB392K50
	C2807, C3051, C3052		CKSQYB472K50
	C3029, C3030		CKSQYB563K25
	C2331, C2332, C3013, C3014		CKSQYB681K50
	C3019, C3020, C3031, C3032		CKSQYB682K50
	C3025, C3026		CKSQYB683K25
	C3331–C3333, C3335–C3340		CKSQYF104Z50
	C2801		CQHA822J2A
	C2806		CQMBA223J50
RESISTORS			
	R2812		RD1/2LMF270J
	R2809		RD1/2LMF4R7J
	R72		RD1/2PM562J
	R3333, R3334		RD1/4LMF101J
	R3353, R3354		RD1/4PU101J

Mark	No.	Description	Part No.
	R73		RD1/4PU103J
	R3081		RD1/4PU221J
△	R3317, R3318		RD1/4PU393J
	R3991, R3992		RS2LMF331J
	R3601, R3602		RS3LMFR22J
	VR2802 (100kΩ)		VCP1162
	Other Resistors		RS1/10S□□□J
OTHERS			
	15P CABLE HOLDER		51063-1505
CN1052	22P FFC CONNECTOR		52045-2245
CN5102	38P FFC CONNECTOR		52045-3845
CN81	4P JUMPER CONNECTOR		52147-0410
CN3331	4P SPEAKER TERMINAL		AKE7001
X5751	CRYSTAL RESONATOR (4.332MHz)		ASS7004
CN2302	KR CONNECTOR		B2B-PH-K-S
CN2303	KR CONNECTOR		B3B-PH-K-R
CN2301	KR CONNECTOR		B3B-PH-K-S
JA1651	OPTICAL LINK OUT		GP1F32T
CN3051	14P PLUG		KM200IB14
JA3001	2P PIN JACK		VKB1060
CN3991	HEADPHONE JACK		XKN3001
AF ASSY (XWZ3063)			
SEMICONDUCTORS			
	IC5691		BA4558F-HT
	IC5891		BU4094BCF
	IC2301		HA12211NT
	IC3001		LC75394NED
△	IC42		NJM7805FA
△	IC32		NJM7812FA
△	IC3301		STK407-050B
△	Q3354, Q3601, Q3621		2SA1037K
	Q71		2SA1837
	Q2803, Q2804		2SC1815
	Q3353, Q3603, Q3605–Q3608		2SC2412K
	Q3081		2SD1858X
△	Q31		2SD2012
	Q2805, Q3311, Q3312		2SD2114K
	Q2301, Q2302		2SK368
	Q3313		DTA124EK
	Q3314		DTC124EK
	Q2306		DTC143EK
△	Q3351		IRFI9234G
△	Q3352		IRFIZ34G
△	D3301, D3302		1SR139-100
	D2301–D2306, D3351–D3354		1SS133
	D3361, D3362, D3601, D3603, D3604		1SS133
	D3621, D3622, D3625, D3626, D5891		1SS133
	D73		1SS133
△	D3051		1SS355
	D3355, D3356		20E2-FC
	D3357, D3358		MTZJ10C
	D3083		MTZJ11C
	D35, D36		MTZJ15C
	D3359, D3360		MTZJ18B
	D74		MTZJ33C
	D3363, D3364		MTZJ39C
	D2001		MTZJ6.2A
	D48		MTZJ6.8C

Mark	No.	Description	Part No.
△	D75 D72, D76		MTZJ8.2B S5688G
COILS AND FILTERS			
	L3331, L3332 L2801 L2301, L2302		ATH-133 ATX7002 LTA822J
SWITCHES AND RELAYS			
	RY3601		ASR7008
CAPACITORS			
	C3345, C3346 (10000pF) C2303, C2304 (270pF) C2335–C2338 C2301, C2302 C3047, C3048		ACG7021 ACG7024 CCCCH270J50 CCSQCH100D50 CCSQCH101J50
	C3319, C3320 C2327–C2330, C3321, C3322 C3311, C3312 C3317, C3318 C3621		CCSQCH3R0C50 CCSQCH470J50 CEANLR47M50 CEANP220M35 CEANP2R2M2A
	C73 C2810, C3045, C3046, C3081, C3091 C33, C35, C3602, C43 C2002, C2316 C3303, C3304		CEAT100M2A CEAT100M50 CEAT100M50 CEAT101M16 CEAT101M50
	C2312, C2313, C32, C42 C2321, C2322, C72 C2001, C3601 C71 C41		CEAT1R0M50 CEAT220M50 CEAT221M16 CEAT221M63 CEAT222M25
△			
△	C31 C2212, C2213, C2319, C2320 C3005–C3010 C2804, C2805 C3021, C3022		CEAT222M35 CEAT2R2M50 CEAT2R2M50 CEAT330M16 CEATR10M50
	C3011, C3012, C3015–C3018 C3039, C3040 C3325 C3027, C3028 C3023, C3024		CEATR22M50 CEATR22M50 CEATR47M50 CFTLA154J50 CFTLA474J50
	C3313, C3314 C2307, C2308 C2003, C2004, C2315, C2317, C2318 C3053, C3098 C3099, C5891		CFTYA224J50 CKSQYB102K50 CKSQYB103K50 CKSQYB103K50 CKSQYB104K25
	C3033, C3034 C3003, C3004 C3315, C3316 C2323, C2326 C2808, C2809		CKSQYB122K50 CKSQYB221K50 CKSQYB222K50 CKSQYB273K50 CKSQYB332K50
	C2333, C2334 C2807, C3051, C3052 C3029, C3030 C2331, C2332, C3013, C3014 C3019, C3020, C3031, C3032		CKSQYB392K50 CKSQYB472K50 CKSQYB563K25 CKSQYB681K50 CKSQYB682K50
	C3025, C3026 C3331–C3333, C3335–C3340 C2801 C2806		CKSQYB683K25 CKSQYF104Z50 CQHA822J2A CQ MBA223J50

Mark	No.	Description	Part No.
RESISTORS			
	R2812 R2809 R72 R3333, R3334 R3353, R3354		RD1/2LMF270J RD1/2LMF4R7J RD1/2PM222J RD1/4LMF101J RD1/4PU101J
	R73 R3081 R3317, R3318 R3991, R3992 R3601, R3602		RD1/4PU103J RD1/4PU221J RD1/4PU563J RS2LMF331J RS2LMFR22J
△			
	VR2802 (100kΩ) Other Resistors		VCP1162 RS1/10S□□□□

OTHERS			
	15P CABLE HOLDER		51063-1505
CN1051	20P FFC CONNECTOR		52045-2045
CN5102	38P FFC CONNECTOR		52045-3845
CN81	4P JUMPER CONNECTOR		52147-0410
CN3331	4P SPEAKER TERMINAL		AKE7001
CN2302	KR CONNECTOR		B2B-PH-K-S
CN2303	KR CONNECTOR		B3B-PH-K-R
CN2301	KR CONNECTOR		B3B-PH-K-S
CN3051	14P PLUG		KM200IB14
JA3001	2P PIN JACK		VKB1060
CN3991	HEADPHONE JAC		XKN3001

F SECONDARY ASSY

(1) CONTRAST TABLE

XWZ3098 and XWZ3064 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3098	XWZ3064	
△	IC11, IC12 PROTECTOR	AEK7021 (7A)	AEK7019 (5A)	
△	IC21, IC22 PROTECTOR	AEK7046 (5A)	AEK7053 (4A)	
△	C21, C22	CEAT332M50	CEAT222M50	

(2) PARTS LIST FOR XWZ3098

SEMICONDUCTORS

△	IC71 (1.25A)	AEK7010
△	IC31, IC41 (3A)	AEK7015
△	IC11, IC12 (7A)	AEK7021
△	IC21, IC22 (5A)	AEK7046
△	D11, D21	GBU4DL-5303
△	D31–D34, D41–D44	S5688G

CAPACITORS

△	C11, C12 (220μF/63V)	ACH7071
△	C21, C22	CEAT332M50

OTHERS

J11	15P CABLE HOLDER JUMPER WIRE	51063-1505 D15A15-350-2651
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G PRIMARY ASSY

CAPACITORS

△	C3 (10000pF/AC250V)	ACG7020
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XR-A660, XR-A550, XR-A330

Mark	No.	Description	Part No.
SUB TRANS ASSY			
SEMICONDUCTORS			
△	IC81		NJM7805FA
	Q81		2SD1859X
	D85, D88–D90		1SS133
△	D81–D84		S5688G
TRANSFORMERS			
△	T2		ATT7027
COILS AND FILTERS			
△	L1		ATF-151
SWITCHES AND RELAYS			
△	RY81		ASR7018
CAPACITORS			
△	C1, C2 (10000pF/250V)		ACG7020
	C83		CEAT100M50
△	C82		CEAT102M25
RESISTORS			
	All Resistors		RD1/4PU□□□□
OTHERS			
		4P CABLE HOLDER	51048-0400
	H1, H2	FUSE CLIP	AKR7001
△	AN1	1P AC INLET	BKP1046
	J81	JUMPER WIRE 4P	D20PYY0425E

DISPLAY ASSY (XWZ3099)

SEMICONDUCTORS			
	IC5631		BA3835F
	IC5601		BU2092F
	IC5501		PDC048B
	Q5501		2SA1037K
	Q2903, Q2906, Q2908		2SB1132
	Q5604, Q5801		2SC2412K
	Q2910, Q2911		DTA124EK
	Q5606		DTC124EK
	Q2901, Q2904, Q2907, Q5502, Q5603		DTC143EK
	Q5821		DTC143EK
	D5593–D5596, D5811		1SS133
	D5551–D5554, D5561–D5568		1SS181
	D2901–D2903, D5569, D5570, D5626		1SS355
	D5901		1SS355
	D5612		MAA5064X
	D5608–D5611		MBG5064X
	D5613–D5616		MPG5064X
	D5617–D5620		SLP3118C51H
	D5603–D5607, D5621		SLP9118C51H
COILS AND FILTERS			
	L5811		LAU220J
SWITCHES AND RELAYS			
	S5951		ASX7004
	S5952		ASX7017
	S5911–S5931		XSG3001

Mark	No.	Description	Part No.
CAPACITORS			
	C5812 (0.047F/5.5V)		ACH1246
	C5601		CCSQSL151J50
	C5821		CEJA100M16
	C5803		CEJA1ROM50
	C5510, C5811, C5814		CEJA470M16
	C5804		CKSQYB102K50
	C5995, C5996		CKSQYB103K50
	C5816, C5997–C5999		CKSQYB104K25
	C5509, C5951–C5954		CKSQYB471K50
	C5506–C5508		CKSQYB472K50
	C5602, C5631–C5634, C5901		CKSQYF104Z50
	C5503, C5504, C5813, C5822		CKSQYF473Z50
RESISTORS			
	R5529 (470Ω)		ACN7056
	R5554, R5561, R5562 (1.5kΩ)		ACN7062
	R5558, R5563, R5564 (47kΩ)		ACN7077
	R5508		RA11T104J
	R5506		RA7T104J
	R2907, R2909, R2910, R5919		RD1/4PU102J
	R5915		RD1/4PU181J
	R5925		RD1/4PU331J
	R5605, R5606, R5612, R5613, R5926		RD1/4PU561J
	R2902, R5604, R5607–R5611		RD1/4PU681J
	R5927		RD1/4PU821J
	R2911–R2913		RS1/8S0R0J
	R5614		RS1/8S331J
	R2905		RS1/8S681J
	Other Resistors		RS1/10S□□□□
OTHERS			
	CN2901	19P FFC CONNECTOR	52045-1945
	CN5501	38P FFC CONNECTOR	52045-3845
	5901	REMOTE RECEIVER UNIT	GP1U28X
	V5621	FL TUBE	XAV3004
	2902	FL HOLDER	XNG3008
	X5501	CERAMIC RESONATOR (6MHz)	RSS1050

DISPLAY ASSY (XWZ3079 AND XWZ3065)

(1) CONTRAST TABLE

XWZ3079 and XWZ3065 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3079	XWZ3065	
	D5594, D5595	Not used	1SS133	
	R5505	Not used	RS1/10S102J	
	R5702	RS1/8S223J	Not used	
	R5704	RS1/10S223J	Not used	

(2) PARTS LIST FOR XWZ3079

SEMICONDUCTORS			
	IC5501		PDC048B
	Q5501		2SA1037K
	Q2903, Q2906, Q2908		2SB1132
	Q5604, Q5801		2SC2412K
	Q2910, Q2911		DTA124EK

Mark	No.	Description	Part No.
	Q5606		DTC124EK
	Q2901, Q2904, Q2907, Q5502		DTC143EK
	Q5601–Q5603, Q5605, Q5821		DTC143EK
	D5594–D5596, D5631, D5811		1SS133
	D5551–D5554, D5563–D5568		1SS181
	D2901–D2903, D5569, D5570, D5626	1SS355	
	D5901	1SS355	
	D5602	SLP3118C51H	
	D5601	SLP7118C51H	
	D5603, D5604, D5621	SLP9118C51H	
COILS AND FILTERS			
	L5811	LAU220J	
SWITCHES AND RELAYS			
	S5951	ASX7004	
	S5952	ASX7017	
	S5911–S5915, S5917–S5925	XSG3001	
	S5927–S5936	XSG3001	
CAPACITORS			
	C5812 (0.047F/5.5V)	ACH1246	
	C5821	CEJA100M16	
	C5803	CEJA1R0M50	
	C5510, C5811, C5814	CEJA470M16	
	C5804	CKSQYB102K50	
	C5995, C5996	CKSQYB103K50	
	C5816, C5997–C5999	CKSQYB104K25	
	C5509, C5951–C5954	CKSQYB471K50	
	C5506–C5508	CKSQYB472K50	
	C5634, C5901	CKSQYF104Z50	
	C5625	CKSQYF224Z25	
	C5503, C5504, C5813, C5822	CKSQYF473Z50	
RESISTORS			
	R5529 (470Ω)	ACN7056	
	R5554, R5561, R5562 (1.5Ω)	ACN7062	
	R5558, R5563, R5564 (47kΩ)	ACN7077	
	R5508	RA11T104J	
	R5506	RA7T104J	
	R2907, R2909, R2910, R5919	RD1/4PU102J	
	R5915	RD1/4PU181J	
	R5925	RD1/4PU331J	
	R5926	RD1/4PU561J	
	R2902	RD1/4PU681J	
	R5927	RD1/4PU821J	
	R2911–R2913, R5567	RS1/8S0R0J	
	R5614	RS1/8S331J	
	R2905	RS1/8S681J	
	Other Resistors	RS1/10S□□□J	
OTHERS			
	CN2901	17P FFC CONNECTOR	52045-1745
	CN5501	38P FFC CONNECTOR	52045-3845
	5901	REMOTE RECEIVER UNIT	GP1U28X
	5631	FL HOLDER	VNF1096
	V5621	FL TUBE	XAV3003
	X5501	CERAMIC RESONATOR (6MHz)	RSS1050

Mark	No.	Description	Part No.
J	CD SW LED ASSY		
SEMICONDUCTORS			
	D5623		SLP3118C51H
	D5624		SLP7118C51H
	D5622		SLP9118C51H
SWITCHES AND RELAYS			
	S5937–S5941		XSG3001
RESISTORS			
	All Resistors		RS1/10S□□□J
OTHERS			
	J5501	JUMPER WIRE	D20PWW0615E

6. ADJUSTMENT

6.1 TUNER SECTION

6.1.1 FM TUNER SECTION

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

Step No.	Adjustment Title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	106	0-30	106MHz	L6104 L6105 L6102 T6101	Adjust so that the DC voltage between the IC6201-pin 20 and GND becomes at maximum level.
2	Stereo Distortion	98 (ON STEREO)	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
3	TUNED IND. Lighting Level	98	18 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Note:
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.

6.1.2 AM TUNER SECTION

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

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 1000kHz.

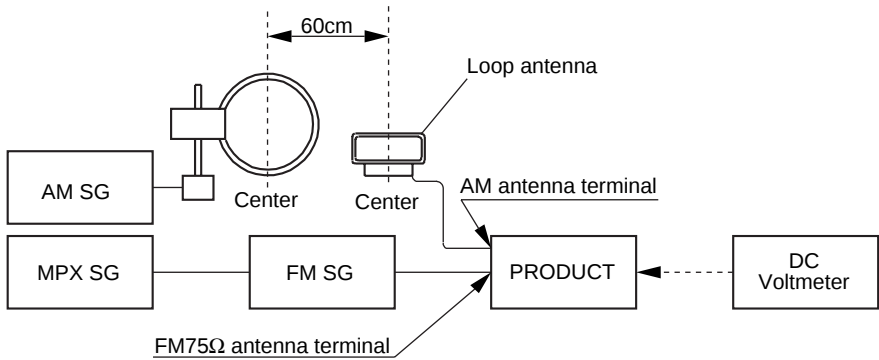


Fig. 1 AM and FM Adjustment Wiring Diagram

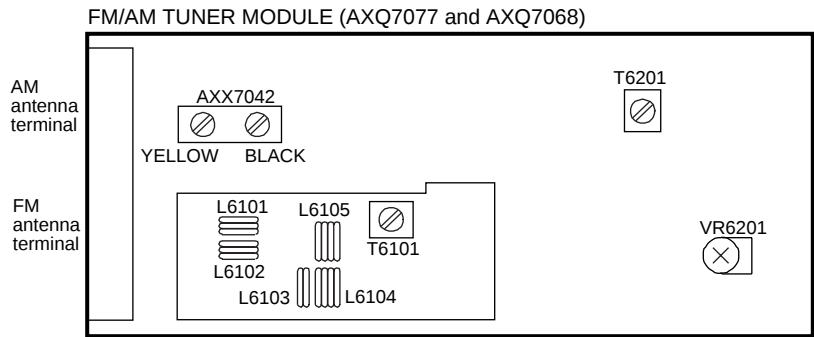


Fig. 2 Adjustment Point

6.2 CASSETTE DECK SECTION

6.2.1 For XR-A660

- Adjustment points and test points are shown in Fig.3, Fig.5 and Fig.7.

■ Mechanical Adjustment

- Test tape: NCT-111 (3kHz, 30min).

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	NCT-111 (Playback : 3kHz)	ADJ. VR on CASSETTE MECHA(Fig. 3)	TAPE TEST POINT (Rch) (AF Assy)	Press the PLAY SW and adjust so that the reading becomes $3000\text{Hz} \pm 20\text{Hz}$. Confirm that wow & flutter level is below 0.3% (in the reverse direction, confirm that the reading is within $3000\text{Hz} \pm 60\text{Hz}$).	

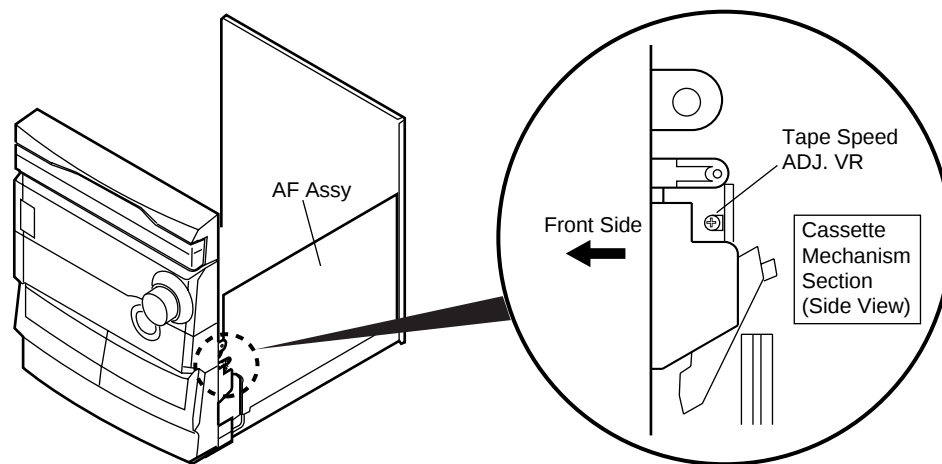


Fig.3 Tape Speed ADJ. Point

■ 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 check
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 I)

- (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.

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

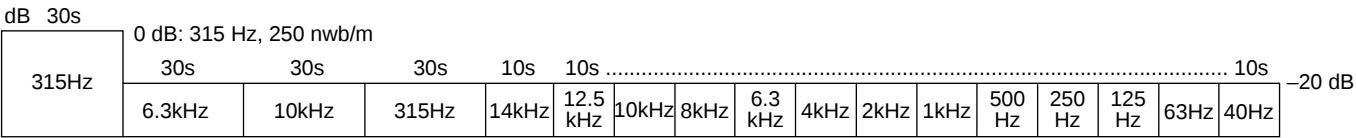


Fig. 4 STD-331E Test Tape

■ 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. 5)	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	VR2303(Lch) VR2304(Rch)	TAPE TEST POINT (L, Rch) (AF Assy)	- 3.7dBV	
			Deck II	VR2305(Lch) VR2306(Rch)			

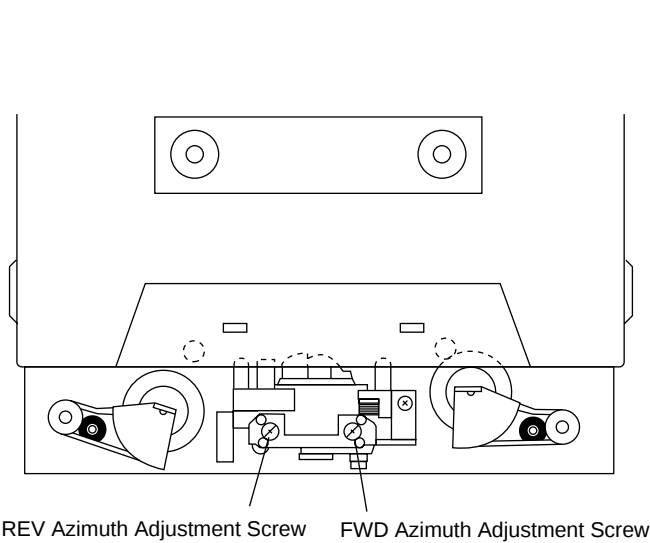


Fig. 5 Head Azimuth Adjustment Screw

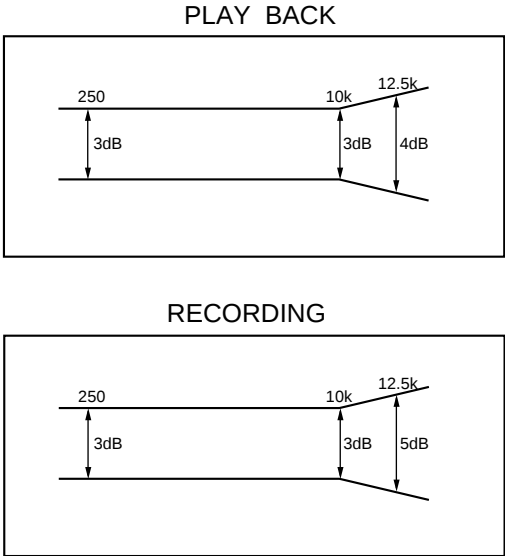


Fig. 6 Frequency Characteristics

■ 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 II	_____	_____	Oscillation frequency to be 105.0kHz $\pm$ 2kHz.	If the REC/STOP button for four seconds while the power is in STAND BY mode, the frequency will decrease 2 to 3 kHz.
			DECK I	L2801 (AF Assy)	Between ① point in Fig.7 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 II	_____	TAPE TEST POINT (L, Rch) (AF Assy)	– 23.7dBV	
			DECK I	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 II	_____	TAPE TEST POINT (L, Rch) (AF Assy)		Repeat adjustment until playback level of the 10kHz signal is within 0 $\pm$ 0.5dB from that of the 315Hz signal.
			DECK I	VR2801(Lch) VR2802(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 II	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 7.7dBV	
			DECK I				
2	REC → PLAY	Load the STD-632 test tape and record/playback the 315Hz signal.	Deck II	_____	TAPE TEST POINT (L, Rch) (AF Assy)		Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes – 7.7dBV.
			DECK I	VR2301(Lch) VR2302(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)	– 8.2dBV	
2			Set to a level +10dB above the input level at step1.		Confirm that the reading is – 2.2 $\pm$ 2.5dBV.	

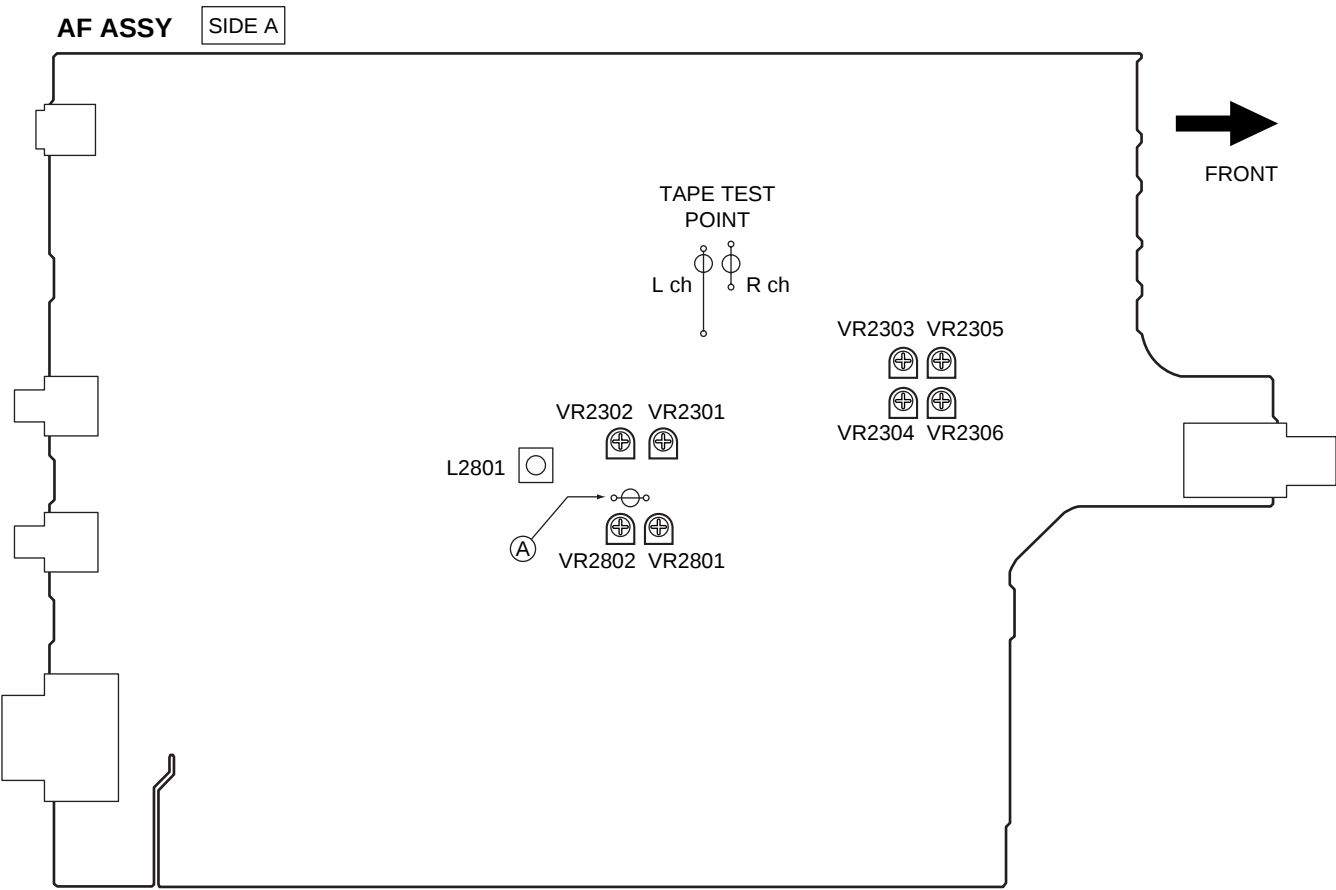


Fig.7 Adjustment and Measurement Points

6.2.2 For XR-A550 and XR-A330

- Adjustment points and test points are shown in Fig.8, Fig.10 and Fig.11.

■ Mechanical Adjustment

- Test tape: NCT-111 (3kHz, 30min).

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	NCT-111 (Playback : 3kHz)	ADJ. VR on CASSETTE MECHA(Fig. 8)	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 0.3% (in the reverse direction, confirm that the reading is within 3000Hz ± 60Hz).	

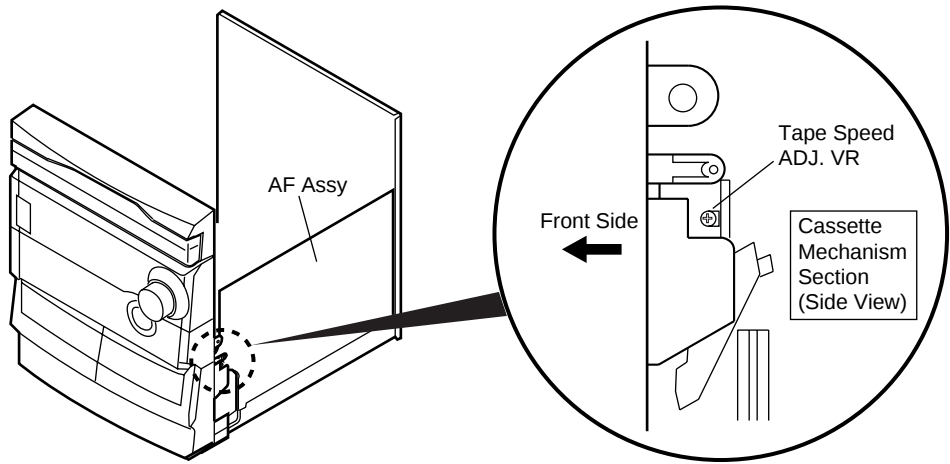


Fig.8 Tape Speed ADJ. Point

■ 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 check
STD-633 : Normal blank tape
- (5) Provide yourself with the following measuring devices:
 - AC voltmeter (Noisemeter : filter off)
 - AC millivoltmeter
 - Low-frequency oscillator
 - Attenuator
 - Oscilloscope
- (6) Adjust both right and left channels unless otherwise specified.
- (7) 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.
- (8) Always follow the indicated adjustment order.
Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (Decks I and II)

- (1) Head Azimuth Adjustment

Recording Adjustment (Deck I)

- (1) Bias Oscillation Frequency Adjustment
- (2) Recording Bias Adjustment

* 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.

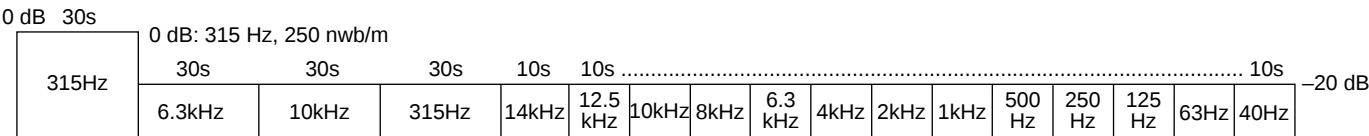


Fig. 9 STD-331E Test Tape

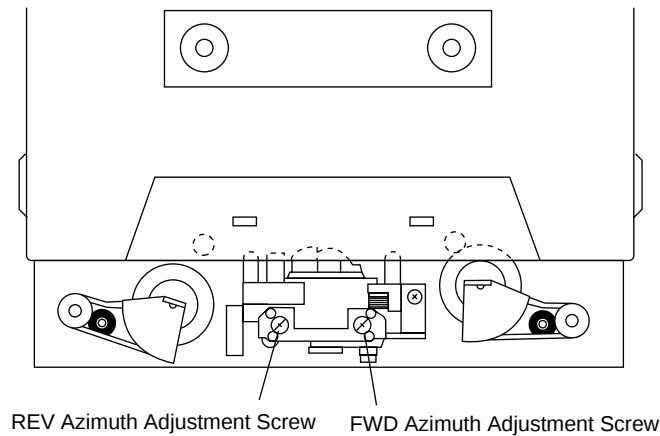


Fig. 10 Head Azimuth Adjustment Screw

■ 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. 10)	TAPE TEST POINT (L, Rch) (AF Assy)	Max. playback signal level	After adjustment, apply silicon bond to the head azimuth adjustment screw.
			Deck II				

■ 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-633 test tape and set the recording mode.	Deck II	_____	_____	Oscillation frequency to be 105.0kHz ± 2kHz.	
			DECK I	L2801 (AF Assy)	Between ㉞ point in Fig. 11 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	Load the STD-633 test tape and record (No signal)	Deck I	VR2802 (AF Assy)	BIAS TP POINT (AF Assy)	24V – 27V	
2	REC → PLAY	Load the STD-633 test tape. Record the 315Hz and 10kHz signals at -25dBV input level (check ㉞ point) and playback.	Deck II	_____	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat adjustment until playback level of the 10kHz signal is within 0 ± 1.0dB from that of the 315Hz signal.	
			DECK I	VR2802 (AF Assy)			

Note : No connecting to BIAS TP POINT at Step 2 REC→PLAY.

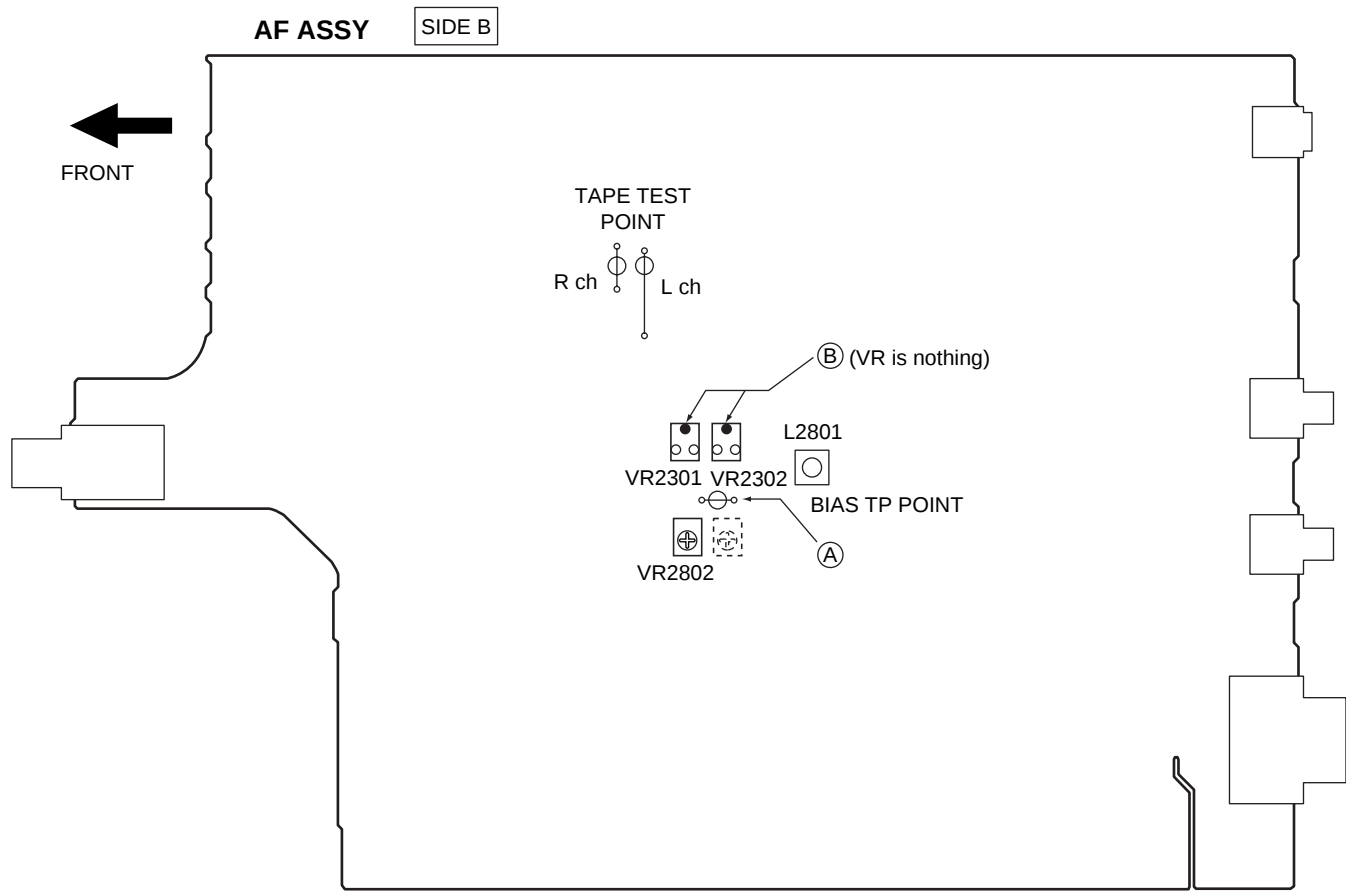


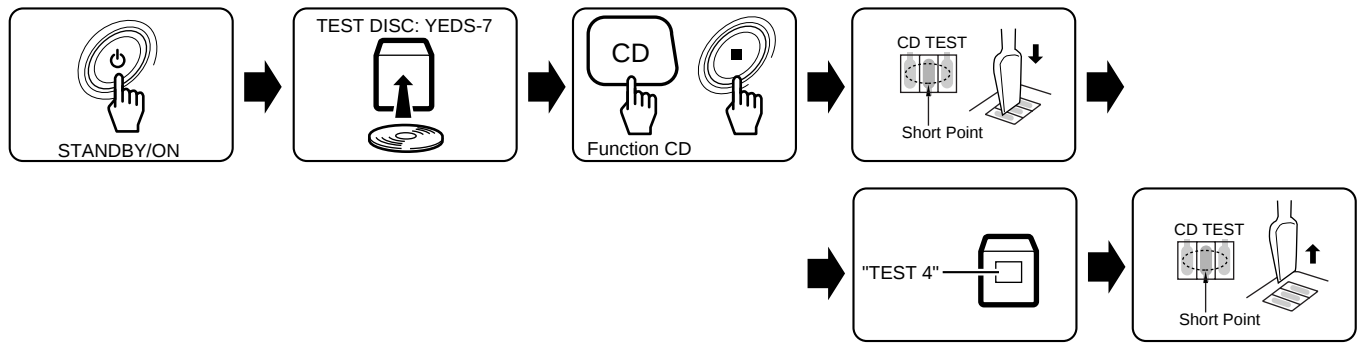
Fig.11 Adjustment and Measurement Points

6.3 TEST MODE

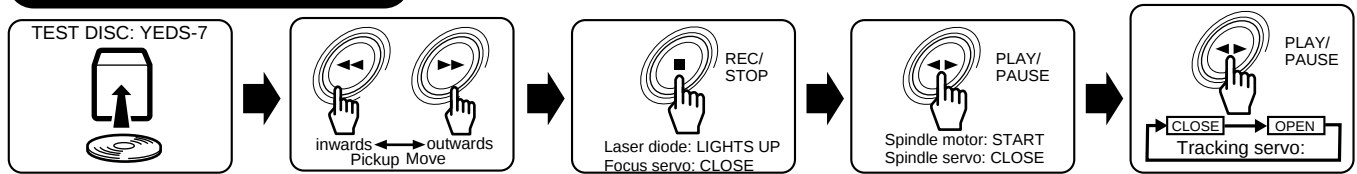
NOTE: There is no information to be shown in this CD adjustment.

■ How to Start/Cancel Test Mode

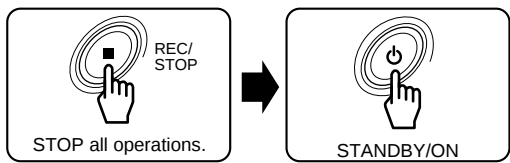
TEST MODE : ON



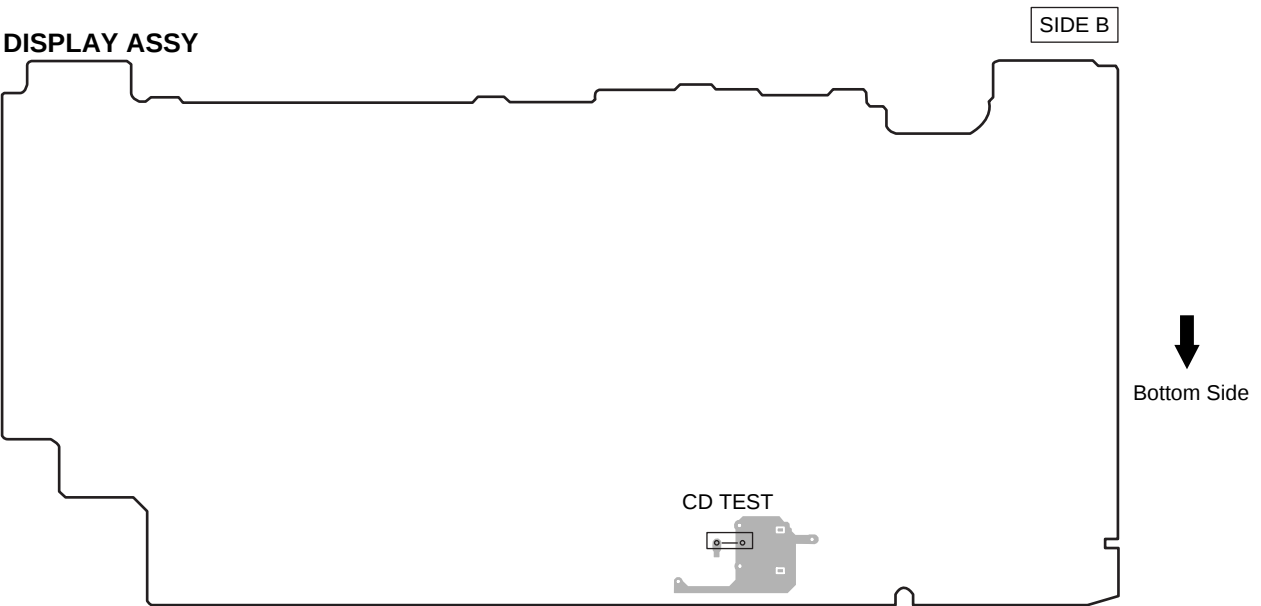
TEST MODE : PLAY



TEST MODE : STOP CANCEL



■ Test Point



7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

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

■ HA12136AF (AF ASSY : IC2201)

• Dolby B Type NR System IC

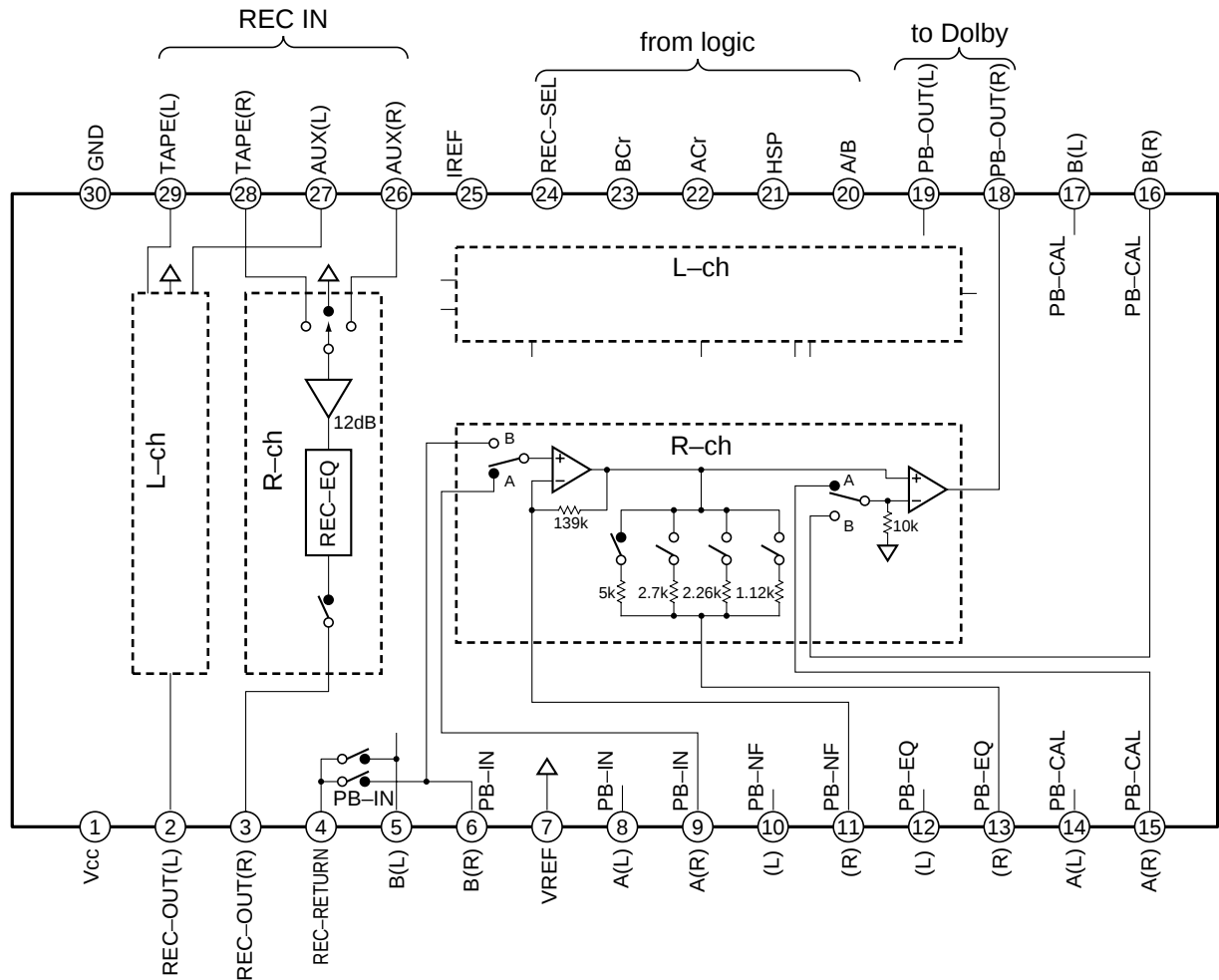
●Pin Function

No.	Pin Name	Function	No.	Pin Name	Function
1	REC IN	Recording (Encode) input	9	REC OUT	Recording (Encode) output
2	Vcc	Power supply	10	DET	Time constant pin for the level detector
3	PB IN	Playback (Decode) input	11	PB OUT	Playback (Decode) output
4	Vref	Reference voltage	12	REC/PB	Mode control pin for REC/PB (Encode/Decode) "H" : REC (Encode), "L" : PB (Decode)
5	NR ON/OFF	Mode control pin for NR ON/OFF "H" : NR ON, "L" : NR OFF	13	BIAS	Reference current input pin for the active filters
6	PB OUT	Playback (Decode) output	14	PB IN	Playback (Decode) input
7	DET	Time constant pin for the level detector	15	GND	Ground
8	REC OUT	Recording (Encode) output	16	REC IN	Recording (Encode) input

■ HA12211NT (AF ASSY : IC2301)

• REC Equalizer and PB Equalizer System IC

●Block Diagram



XR-A660, XR-A550, XR-A330

●Pin Function

No.	Pin Name	Function	No.	Pin Name	Function
1	Vcc	Vcc pin	16	PB-Cal B (R)	Feed back input for gain adjustment
2	RECOU (L)	REC-EQ output	17	PB-Cal B (L)	
3	RECOU (R)		18	PB OUT (R)	PB output
4	REC-RETURN	REC return	19	PB OUT (L)	
5	PB-IN B (L)	PB B deck input	20	A/B	Mode control input
6	PB-IN B (R)		21	HSP	
7	VREF	Reference voltage	22	Acr	
8	PB-IN A (L)	PB A deck input	23	Bcr	
9	PB-IN A (R)		24	REC-SEL	Mode control input
10	PB-NF (L)	PB EQ feed back	25	IREF	Equalizer reference current input
11	PB-NF (R)		26	AUX (R)	REC-EQ input
12	PB-EQ (L)	NAB output	27	AUX (L)	
13	PB-EQ (R)		28	TAPE (R)	
14	PB-Cal A (L)	Feed back input for gain adjustment	29	TAPE (L)	
15	PB-Cal A (R)		30	GND	GND pin

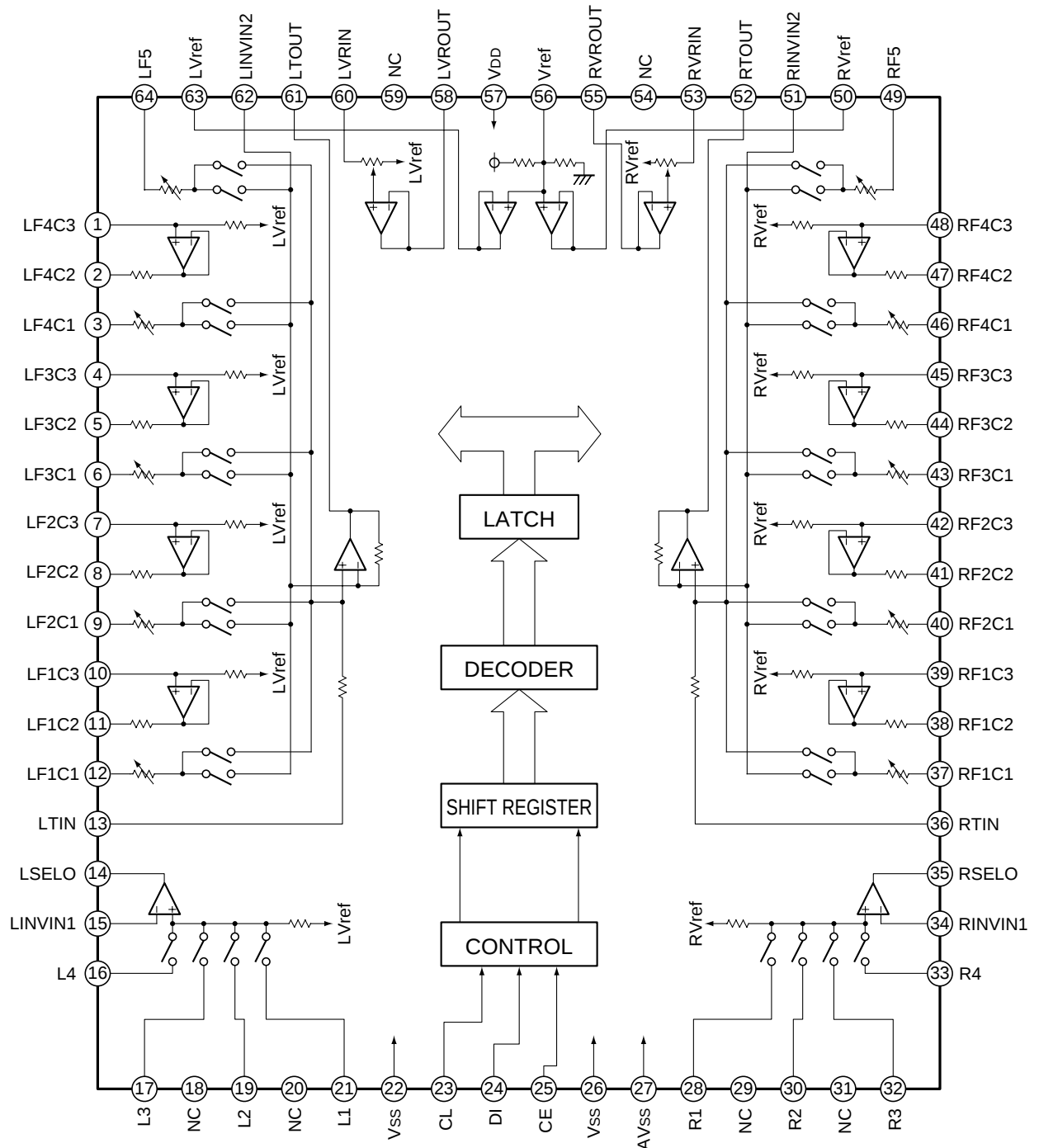
■ LC75394NED (AF ASSY : IC3001)

• Electrical Volume IC

●Pin Function

No.	Pin Name	Function	No.	Pin Name	Function
1	LF4C3	F4 band control block of L ch External capacitor connection pin	33	R4	Signal input
2	LF4C2		34	RINVIN1	Inverting input of OP amp. for input gain setting
3	LF4C1		35	RSELO	Input selector output
4	LF3C3	F3 band control block of L ch External capacitor connection pin	36	RTIN	Tone control input pin that is driven with low-impedance
5	LF3C2		37	RF1C1	F1 band control block of R ch External capacitor connection pin
6	LF3C1		38	RF1C2	
7	LF2C3	F2 band control block of L ch External capacitor connection pin	39	RF1C3	F2 band control block of R ch External capacitor connection pin
8	LF2C2		40	RF2C1	
9	LF2C1		41	RF2C2	
10	LF1C3	F1 band control block of L ch External capacitor connection pin	42	RF2C3	F3 band control block of R ch External capacitor connection pin
11	LF1C2		43	RF3C1	
12	LF1C1		44	RF3C2	
13	LTIN	Tone control input pin that is driven with low-impedance	45	RF3C3	F4 band control block of R ch External capacitor connection pin
14	LSELO	Input selector output	46	RF4C1	
15	LINVIN1	Inverting input of OP amp. for input gain setting	47	RF4C2	
16	L4	Signal input	48	RF4C3	F5 band control block External capacitor connection pin
17	L3		49	RF5	
18	NC	Non connection	50	RVref	Common pin of volume, tone and input selector blocks
19	L2	Signal input	51	RINVIN2	Inverting input of OP amp. for graphic equalizer
20	NC	Non connection	52	RTOUT	Tone control output
21	L1	Signal input	53	RVRIN	Volume input pin that is driven with low-impedance
22	VSS	Ground of internal logic system	54	NC	Non connection
23	CL	Serial data and clock input for control	55	RVROUT	Volume output pin
24	DI		56	Vref	VDD/2 voltage generating block Connect a capacitor between Vref and VSS.
25	CE	Chip enable pin H: Enable data transfer	57	VDD	Power supply
26	VSS	Ground of internal logic system	58	LVROUT	Volume output pin
27	AVSS	Ground of internal OP amp.	59	NC	Non connection
28	R1	Signal input	60	LVRIN	Volume input pin that is driven with low-impedance
29	NC	Non connection	61	LTOUT	Tone control output
30	R2	Signal input	62	LINVIN2	Inverting input of OP amp. for graphic equalizer
31	NC	Non connection	63	LVref	Common pin of volume, tone and input selector blocks
32	R3	Signal input	64	LF5	F5 band control block External capacitor connection pin

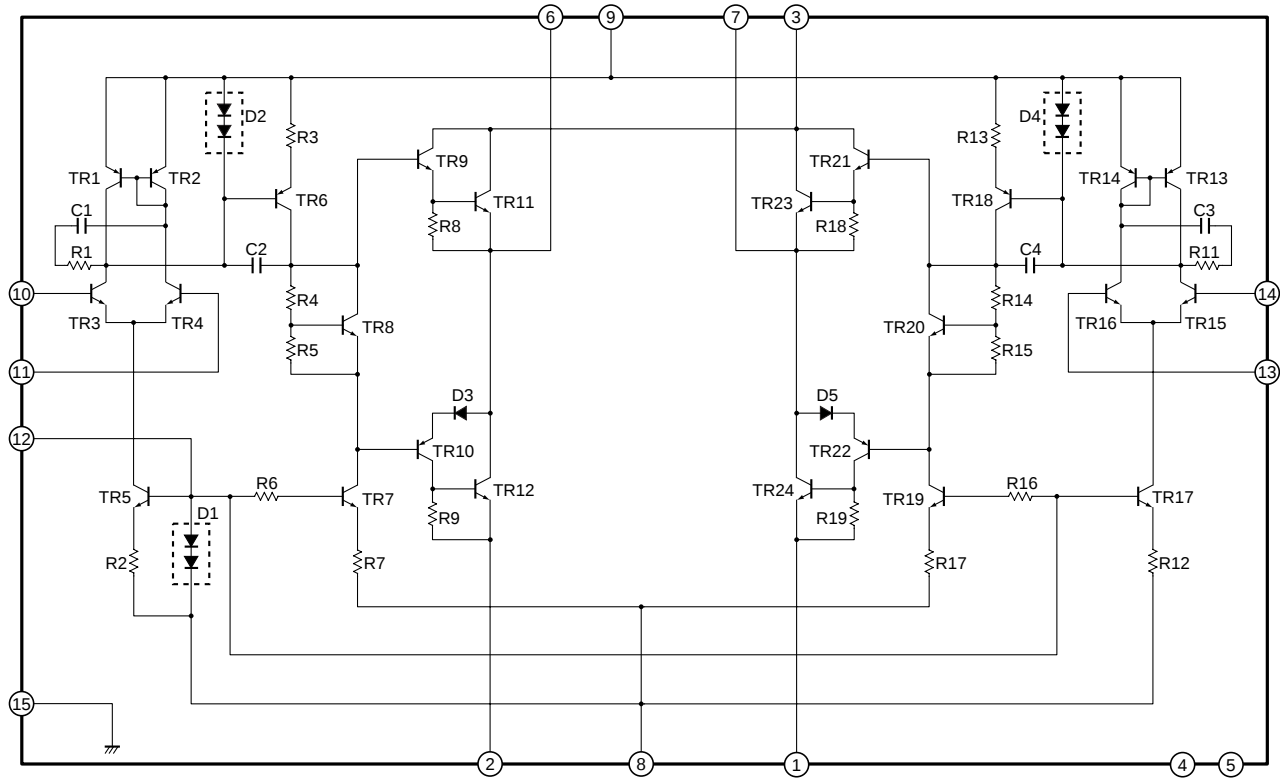
●Block Diagram



■ STK407-070B (AF ASSY : IC3301)(XR-A660 and XR-A550) STK407-050B (AF ASSY : IC3301)(XR-A330)

• Audio IC

●Block Diagram



PDC048A (DISPLAY ASSY : IC5501)

• System Control Microcomputer

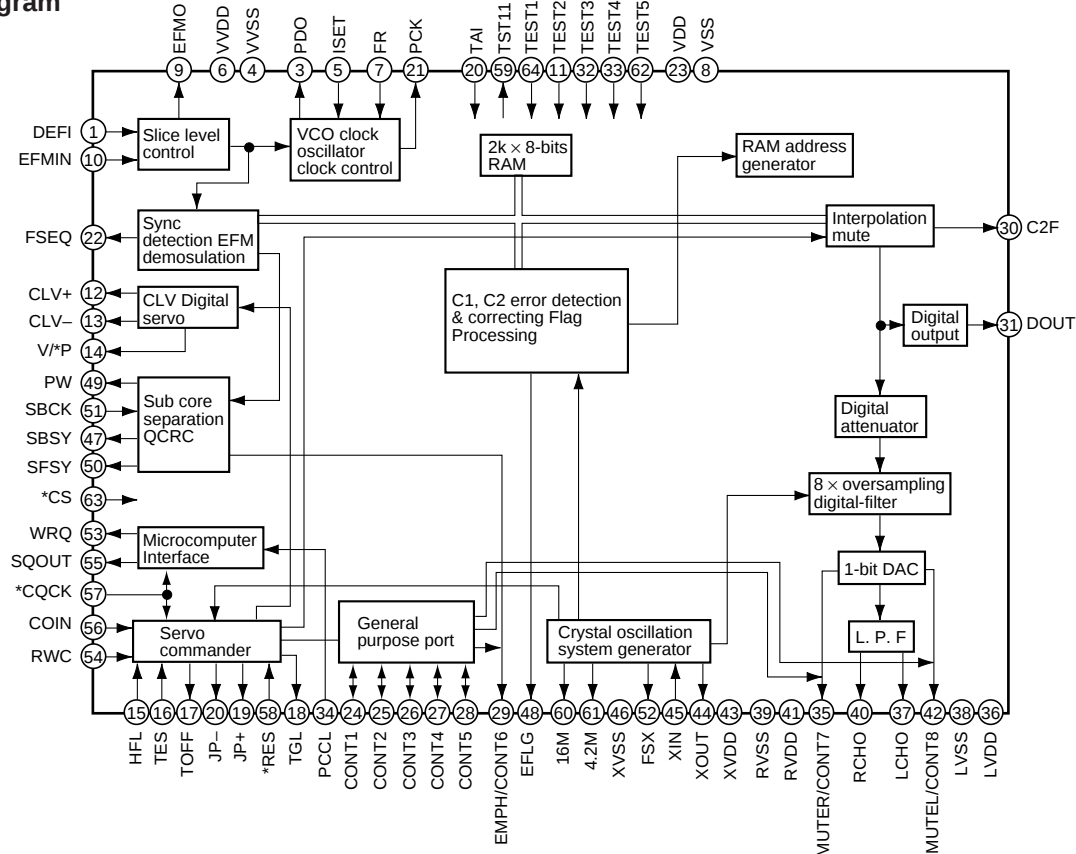
•Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	CD RESET	O	Reset output for CD LSI	51	VFDP	–	
2	CD CE	O	CD LSI strobe output	52	S*/D5593	*	
3	CD DRF	I	RF level detection input	53	S*/D5592	*	
4	NC	O	Not used	54	S*/D5591	*	
5	EXP CLK	O	Clock output for EXP IC (BU4094), LED IC (BU2092) and Prologic IC (LV1035)	55	S*	O	
6	EXP DATA	O	Data output for EXP IC (BU4094), LED IC (BU2092) and Prologic IC (LV1035)	56	S*	O	
7	EXP CE	O	EXP IC (BU4094), LED IC (BU2092) strobe output	57	S*	O	
8	LED1/SPE A	O	LED control / Spectrum analyzer IC (BU1923) output control	58	S*	O	
9	LED2/SPE B	O		59	S*	O	
10	LED3/SPE C	O		60	S*	I/O	
11	AC	I	AC pulse input (for clock , power supply monitor)	61	S*	I/O	FL display control anode
12	XRESET	I	CPU reset input	62	S*	I/O	
13	REEL1	I	Pulse input for deck 2 reel	63	S*/CLAMP	I/O	
14	REEL2	I	Pulse input for deck 1 reel	64	S*/OPEN	I/O	
15	VSS	–	Ground	65	S*/INSIDE	I/O	
16	CF1	I		66	S*/CDISC123	I/O	
17	CF2	O		67	S*/ARR	I/O	
18	VDD	–	power supply	68	S*/ARF	I/O	
19	KEY1	I	Front key input	69	S*/MODE1	I/O	
20	MS	I	Deck MS signal input	70	S*/MODE2	I/O	
21	ST/TUNE	I	Tuner tuned (STEREO) detection	71	S*/HALF1	I/O	
22	NC	I	Not used	72	VDD	–	Power supply
23	TIMER LED	O	LED control (for timer) (XR-A660 only)	73	S*/HALF2	I/O	FL display control anode
24	KEY2	I	Front key input	74	S*/CrO2_1	I/O	
25	SPE-IN	I	Spectrum analyzer signal input	75	S*/CrO2_2	I/O	
26	KEY3	I	Front key input	76	SCAN ON	O	Key scan input control
27	CD WRQ	I	CD subcode Q data OK signal input	77	SOL2	O	Deck 1 solenoid control
28	RDS CLK	I	Clock input for RDS IC (BU1923)	78	SOL1	O	Deck 2 solenoid control
29	REMOCON	I	Remote control signal input	79	MOTOR	O	Deck motor control
30	G*	O	FL display control anode	80	RDS DATA	I	Data input for RDS
31	G*			81	VOLJOG1	I	Pulse input for volume jog
32	G*			82	VOLJOG2		
33	G*			83	PLL CE	O	Tuner PLL IC strobe output
34	G*			84	NC	–	Not used
35	G*			85	EVOL CE	O	Main volume control IC (LC75394) strobe output
36	G*			86	POWER	O	Main power control
37	G*			87	LINE MUTE	O	Line mute control
38	G*			88	TIMER LED /LED CE	O	LED control (for TIMER) / LED control IC (BU2092) strobe output
39	G*			89	VSS	–	Ground
40	G*			90	VDD	–	Power supply
41	G*	O	FL display control anode (XR-A660 only)	91	NC	I	No connection
42	G*			92	NC		
43	G*			93	MORP JOG1	I	Pulse input for sound morphing jog
44	G*			94	MORP JOG2		
45	G*			95	SYSDATA	O	Serial data output
46	VDD	–	Power supply	96	TXDATA	I	Serial data input
47	S*/D5597	O	FL display control anode	97	SCLK	O	Serial clock output
48	S*/D5596	O		98	CD DATA	O	Serial data output for CD LSI
49	S*/D5595	*		99	SQ OUT	I	Serial data (Q DATA) input for CD LSI
50	S*/D5594	*		100	CD CLK	O	Serial clock output for LSI

■ LC78622NE (CD ASSY : IC8301)

• CD DSP IC

● Block Diagram



● Pin Function

No.	Pin Name	I/O	Function
1	DEFI	I	Defect detection signal (DEF) input pin (Must be connected to 0V when unused).
2	TAI	I	PLL pins Test input pin A pull-down resistor is built-in. Must be connected to 0V.
3	PDO	O	
4	VVSS	–	
5	ISET	AI	
6	VVDD	–	
7	FR	AI	
8	VSS	–	Digital system ground pin Must be connected to 0V.
9	EFMO	O	Slice level control EFM signal output pin
10	EFMIN	I	
11	TEST2	I	Test input pin A pull-down resistor is built-in. Must be connected to 0V.
12	CLV+	O	Disc motor control output
13	CLV–	O	Can be set to three-value output by microprocessor command.
14	V/*P	O	Rough servo/phase control automatic switching monitor output pin Outputs a high level during rough servo a low level.
15	HFL	I	Track detection signal input pin This is a Schmitt input.
16	TES	I	Tracking error signal input pin This is a Schmitt input.
17	TOFF	O	Tracking off output pin
18	TGL	O	Tracking gain switching output pin 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.

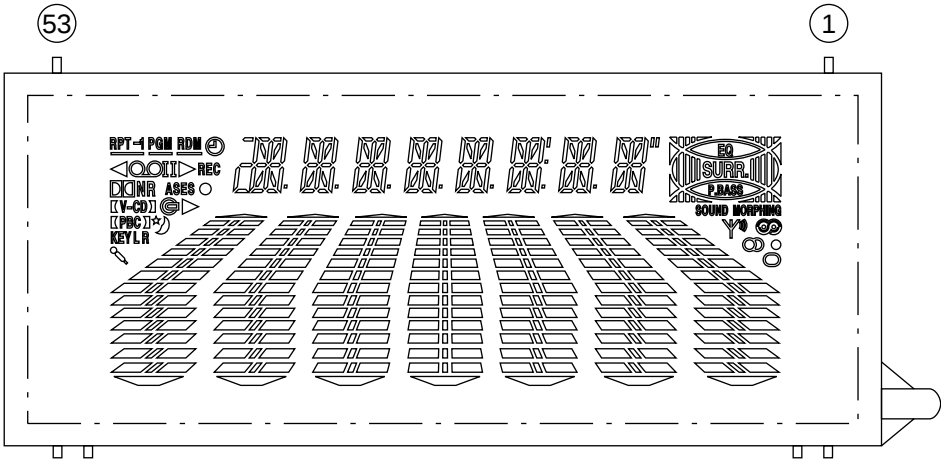
No.	Pin Name	I/O	Function
21	PCK	O	EFM data playback clock monitor pin Output pin 4.3218MHz when the phase is locked.
22	FSEQ	O	Synchronization signal detection output pin Output a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal range.
23	VDD	–	Digital system power supply pin
24	CONT1	I/O	General-purpose 1
25	CONT2		General-purpose 2
26	CONT3		General-purpose 3
27	CONT4		General-purpose 4
28	CONT5		General-purpose 5
29	EMPH/CONT6	O	De-emphasis monitor pin A high level indicates playback of a de-emphasis disk. / General-purpose 6
30	C2F	O	C2 flag output pin
31	DOUT	O	Digital output pin (EIJ format)
32	TEST3	I	Test input pin A pull-down resistor is built-in. Must be connected to 0V.
33	TEST4	I	
34	PCCL	I	General-purpose input / output command identifying pin Must be connected to 0V when used with functions similar to those of LC78622E. H: Control possible only for the general-purpose input / output port command L: Control possible for all commands
35	MUTEL/CONT7	O	Left channel mute output pin
36	LVDD	–	Left channel one-bit D/A converter
37	LCHO	O	Left channel output pin
38	LVSS	–	Left channel ground pin Must be connected to 0V.
39	RVSS	–	Right channel ground pin Must be connected to 0V.
40	RCHO	O	Right channel one-bit D/A converter
41	RVDD	–	Right channel power supply pin
42	MUTER/CONT8	O	Right channel mute output pin
43	XVDD	–	Crystal oscillator power supply pin
44	XOUT	O	Connections for a 16.9344MHz crystal oscillator element pin
45	XIN	I	
46	XVSS	–	Crystal oscillator ground pin Must be connected to 0V.
47	SBSY	O	Subcode clock synchronization signal output pin
48	EFLG	O	C1, C2 single and double error correction monitor pin
49	PW	O	Subcode P, Q, R, S, T, U and W output pin
50	SFSY	O	Subcode frame synchronization signal output pin This signal falls when the subcode are in standby state.
51	SBCK	I	Subcode readout clock input pin This is a Schmitt input. (Must be connected to 0V when unused.)
52	FSX	O	Output pin for the 7.35kHz synchronization signal divided from the crystal oscillator
53	WRQ	O	Subcode Q output standby output pin
54	RWC	I	Read/write control input pin This is a Schmitt input.
55	SQOUT	O	Subcode Q output pin
56	COIN	I	Command input pin from control microprocessor
57	*CQCK	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input pin. This is a Schmitt input.
58	*RES	I	Reset input pin This pin must be set low briefly after power is first applied.
59	TST11	O	Test output pin Leave open. (Normally output a low level.)
60	16M	O	16.9344MHz output pin
61	4.2M	O	4.2336MHz output pin
62	TEST5	I	Test input pin A pull-down resistor is built-in. Must be connected to 0V.
63	*CS	I	Chip select input pin A pull-down resistor is built-in. Must be connected to 0V if not controlled.
64	TEST1	I	Test input pin No pull-down resistor. Must be connected to 0V.

Note: The same potential must be supplied to all power supply pins, i.e., VDD, VVDD, LVDD, RVDD and XVDD.

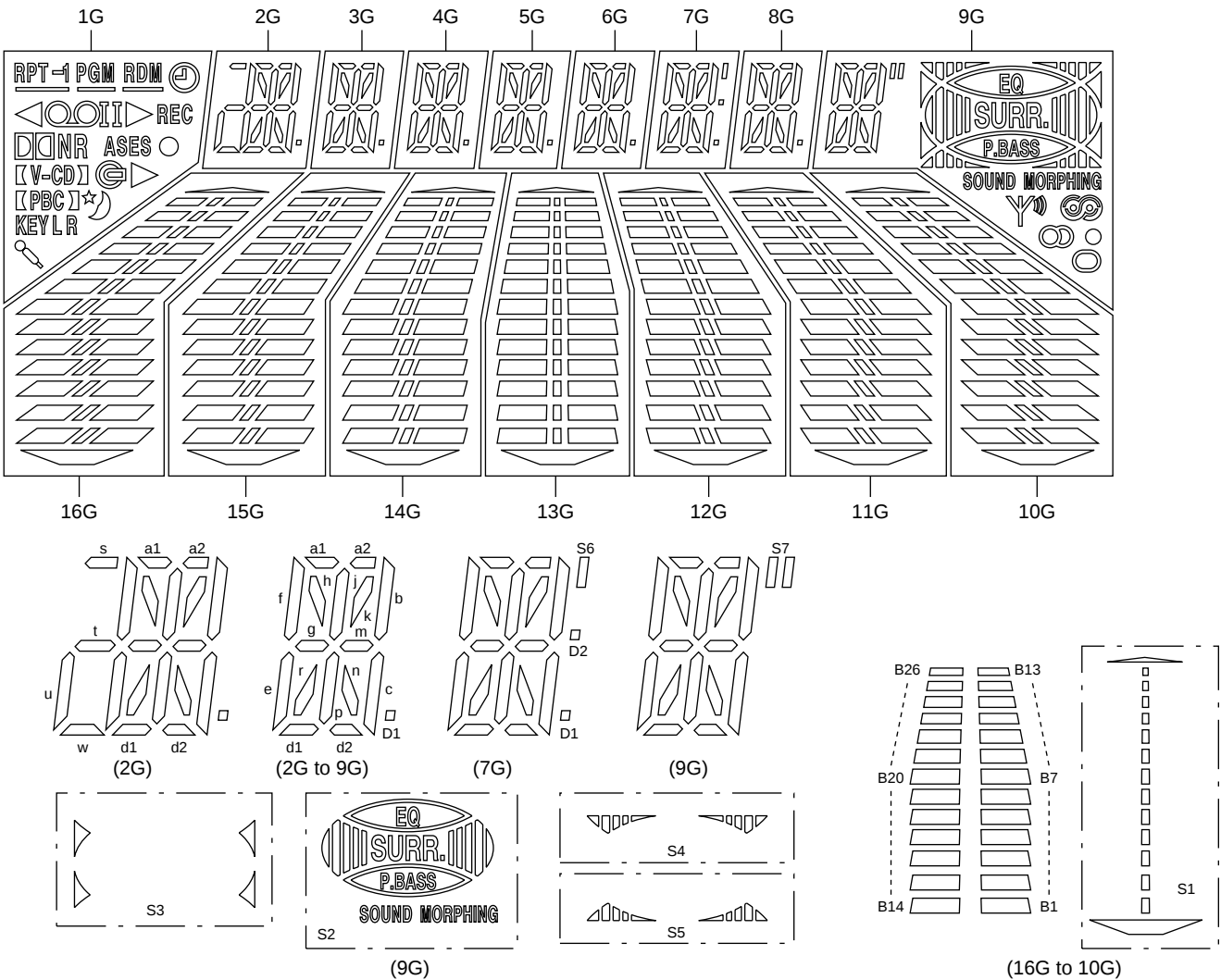
7.1.2 DISPLAY

■ XAV3004 (DISPLAY ASSY : V5621)(XR-A660)

- FL Display
- Pin Assignment



• Grid Assignment



• Pin Connection

Pin No.	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
Connection	F2	F2	F2	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	16G	P1	P2	P3	P4	P5	P6

Pin No.	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	NP	NP	F1	F1	F1

NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) DL..... Datum Line
4) 1G to 16G..... Grid

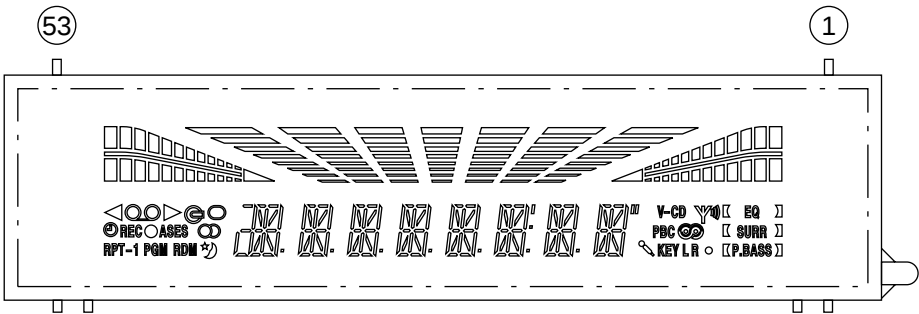
• Anode Connection

	1G	2G	3G to 6G	7G	8G	9G	10G to 16G
P1	—	a1	a1	a1	a1	a1	B14
P2		a2	a2	a2	a2	a2	B15
P3		h	h	h	h	h	B16
P4		j	j	j	j	j	B17
P5		k	k	k	k	k	B18
P6		b	b	b	b	b	B19
P7	(Left)	f	f	f	f	f	B20
P8		g	g	g	g	g	B21
P9	(Right)	m	m	m	m	m	B1
P10	(Upper right)	c	c	c	c	c	B2
P11		e	e	e	e	e	B3
P12		r	r	r	r	r	B4
P13		p	p	p	p	p	B5
P14		n	n	n	n	n	B6
P15	(V-CD)	d1	d1	d1	d1	d1	B7
P16		d2	d2	d2	d2	d2	B8
P17		s	—	—	—	S7	B22
P18	(Under)	t	—	—	—	S2	B23
P19	(PBC)	u	—	—	—	S3	B24
P20		w	—	—	—	S4	B25
P21		—	—	—	—	S5	B9
P22		—	—	—	—		B10
P23		—	—	—	—		B11
P24		—	—	—	—		B12
P25		D1	D1	D1	D1		B26
P26	—	—	—	D2	—		B13
P27	—	—	—	S6	—	—	S1

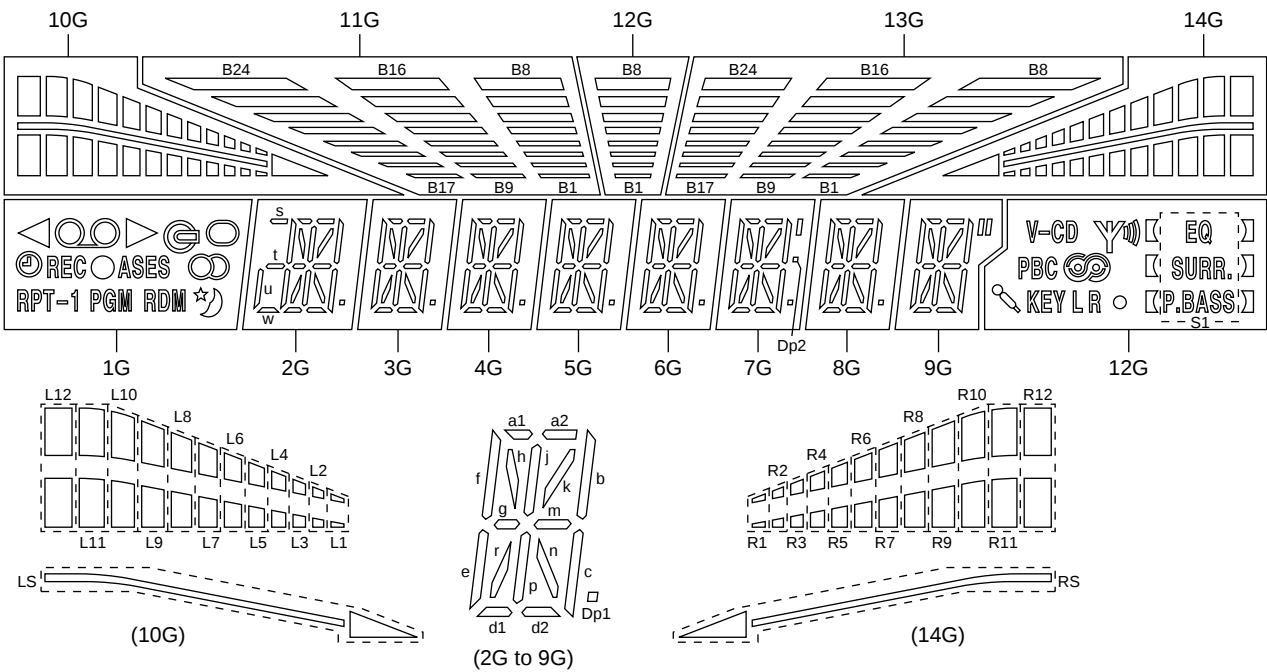
XR-A660, XR-A550, XR-A330

■ XAV3003 (DISPLAY ASSY : V5621) (XR-A550 and XR-A330)
• FL Display

• Pin Assignment



• Grid Assignment



• Pin Connection

Pin No.	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
Connection	F2	F2	NP	NP	NX	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	NX	NX	P1	P2	P3	P4	P5	P6

Pin No.	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	NX	NP	NP	F1	F1

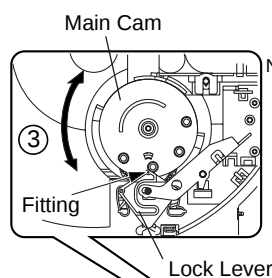
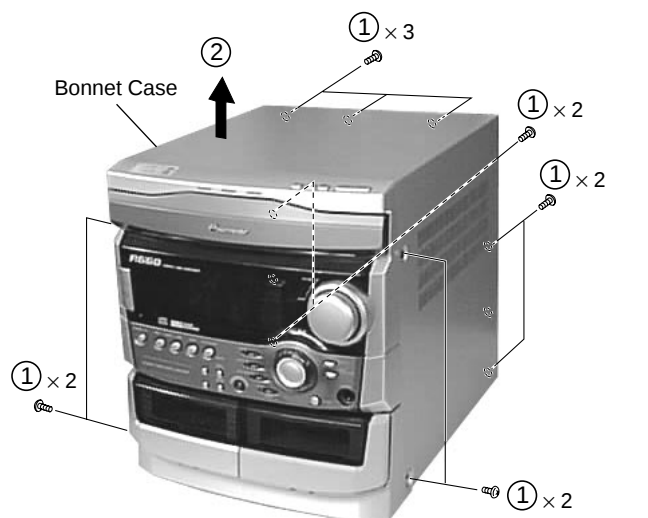
NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 14G..... Grid
6) Set view angle to 25.8° minimum at lower side.

• Anode Connection

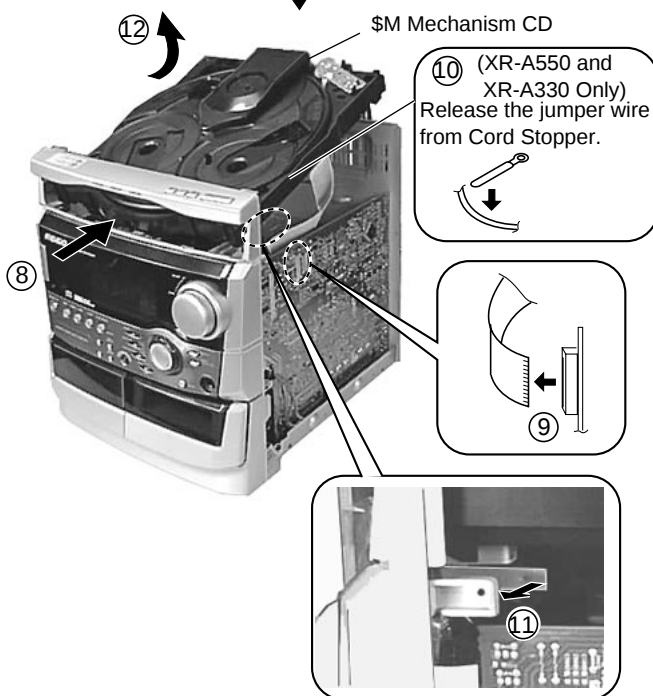
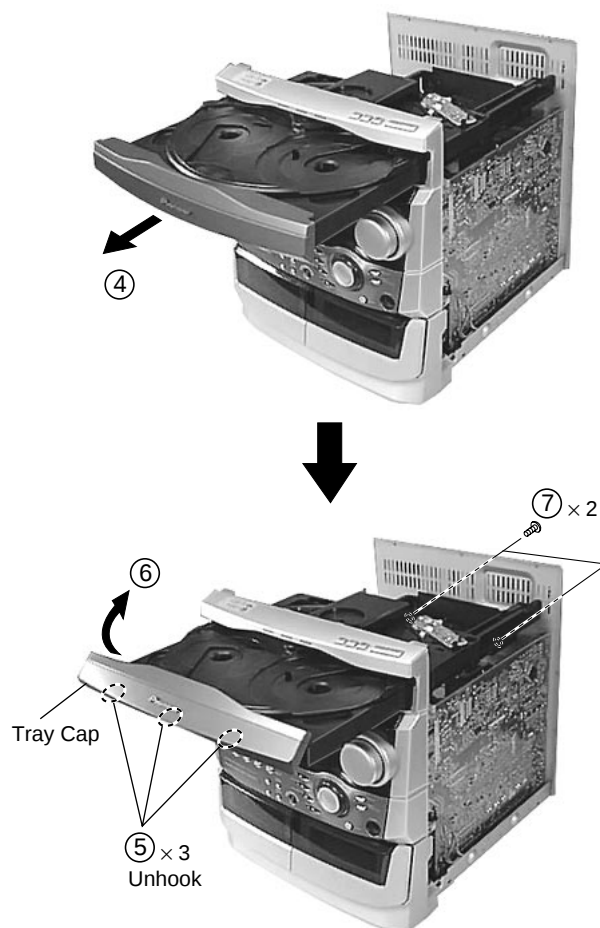
	1G	2G	3G to 6G	7G	8G	9G	10G	11G	12G	13G	14G
P1		a1	a1	a1	a1	a1	L1	B1	B1	B1	R1
P2		a2	a2	a2	a2	a2	L2	B2	B2	B2	R2
P3		h	h	h	h	h	L3	B3	B3	B3	R3
P4		j	j	j	j	j	L4	B4	B4	B4	R4
P5		k	k	k	k	k	L5	B5	B5	B5	R5
P6		b	b	b	b	b	L6	B6	B6	B6	R6
P7	REC	f	f	f	f	f	L7	B7	B7	B7	R7
P8		g	g	g	g	g	L8	B8	B8	B8	R8
P9	ASES	m	m	m	m	m	L9	B9	V-CD	B9	R9
P10		c	c	c	c	c	L10	B10		B10	R10
P11	RPT	e	e	e	e	e	L11	B11	PBC	B11	R11
P12	-1	r	r	r	r	r	L12	B12		B12	R12
P13	PGM	p	p	p	p	p	—	B13		B13	—
P14	RDM	n	n	n	n	n	—	B14	KEY	B14	—
P15		d1	d1	d1	d1	d1	—	B15	L	B15	—
P16	—	d2	d2	d2	d2	d2	—	B16	R	B16	—
P17	—	s	—	—	—		LS	B17		B17	RS
P18	—	t	—	—	—	—	—	B18	S1	B18	—
P19	—	u	—	—	—	—	—	B19	[(EQ)]	B19	—
P20	—	w	—	—	—	—	—	B20	[(SURR.)]	B20	—
P21	—	—	—	—	—	—	—	B21	[(P.BASS)]	B21	—
P22	—	—	—	—	—	—	—	B22	—	B22	—
P23	—	—	—	—	—	—	—	B23	—	B23	—
P24	—	—	—	—	—	—	—	B24	—	B24	—
P25	—	Dp1	Dp1	Dp1	Dp1	—	—	—	—	—	—
P26	—	—	—	Dp2	—	—	—	—	—	—	—
P27	—	—	—		—	—	—	—	—	—	—

7.2 DISASSEMBLY

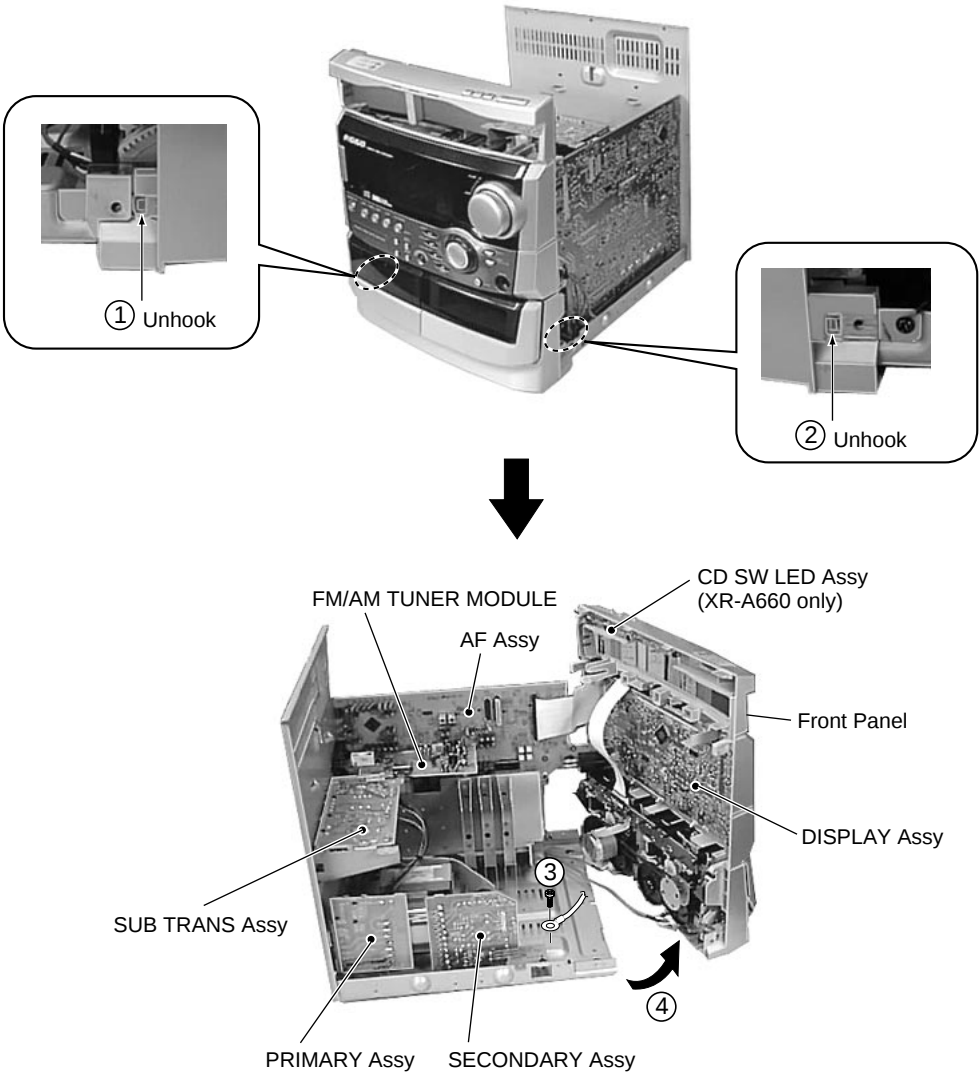
■ \$M MECHANISM CD



Note: The loading tray can be pulled out when the main cam is in this position. (The Lock Lever should be in the notch of the Main Cam.)

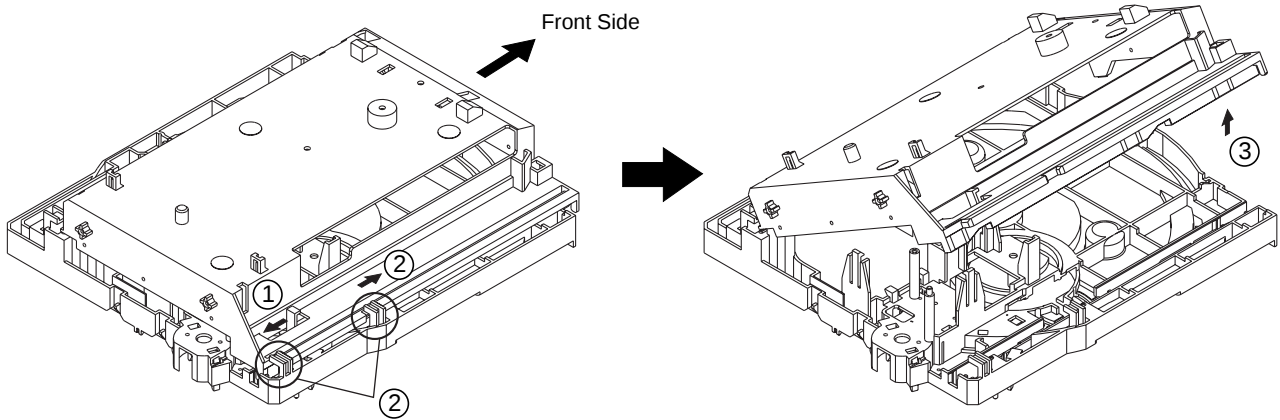


FRONT PANEL

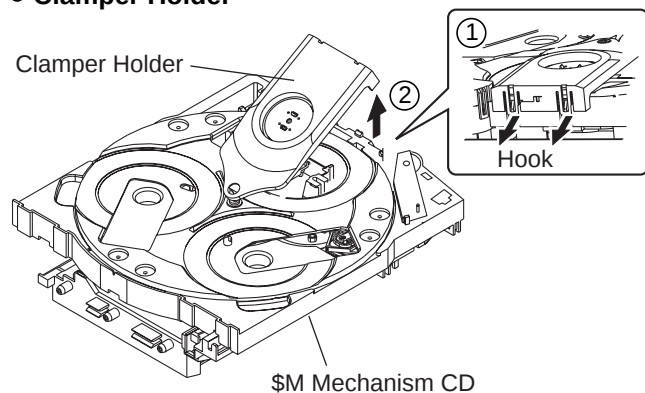


\$M MECHANISM CD ADDITIONAL TO JOB

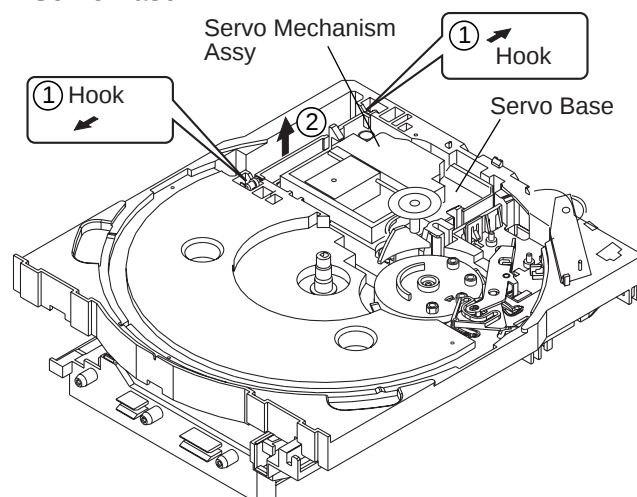
● Mechanism Base (Bottom View)



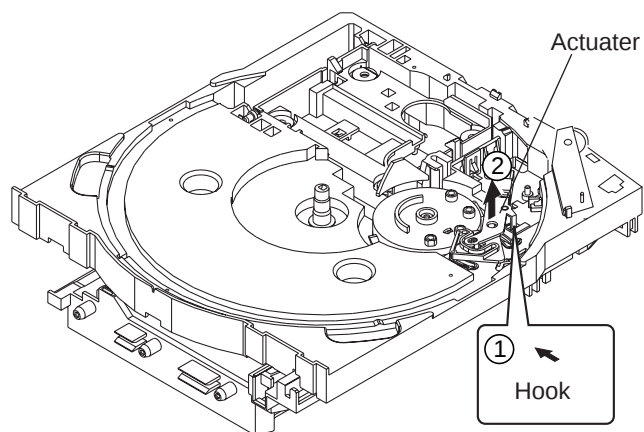
● Clamper Holder



● Servo Base

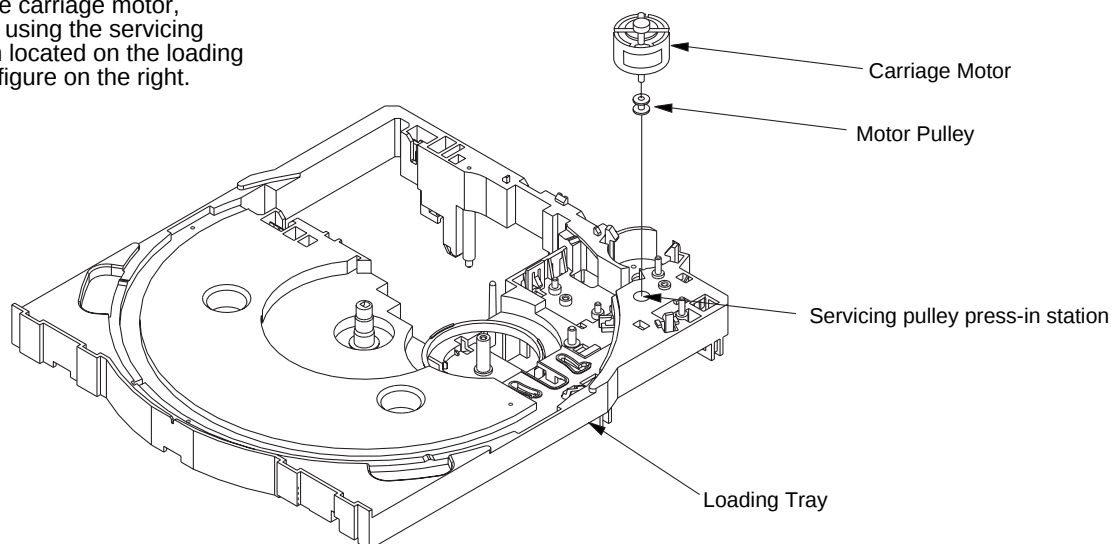


● Actuator

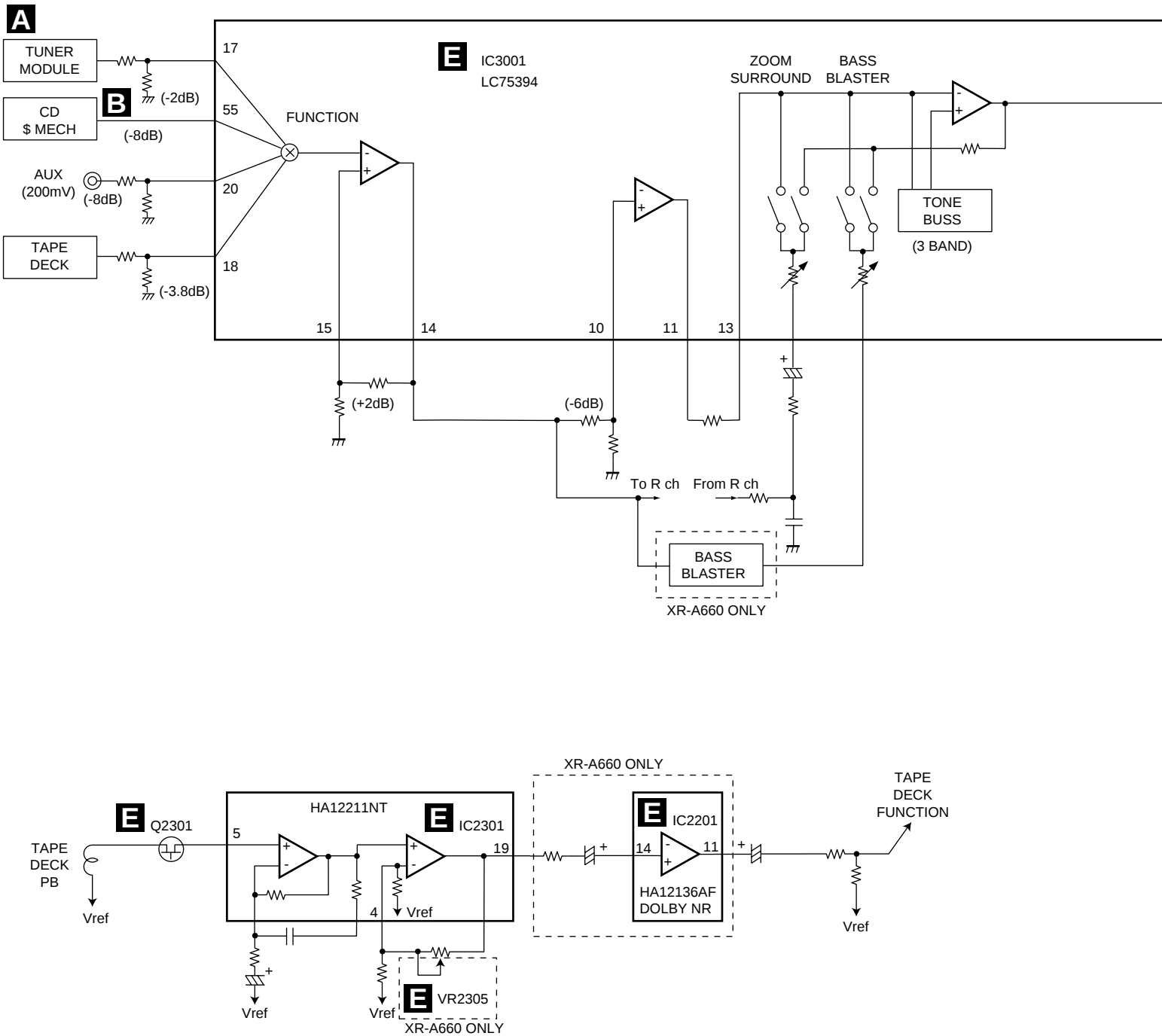


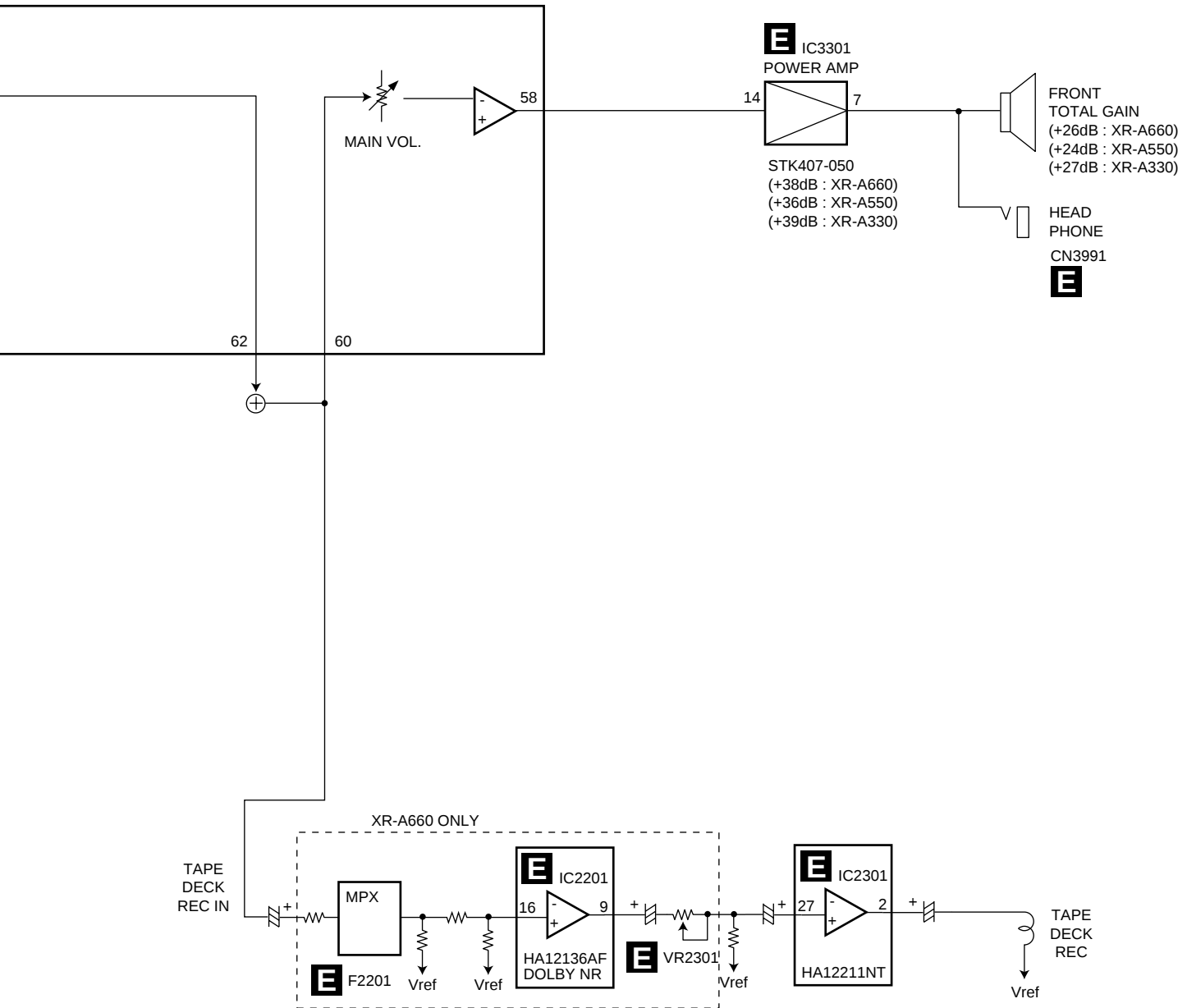
■ FITTING THE PULLEY INTO THE CARRIAGE MOTOR

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

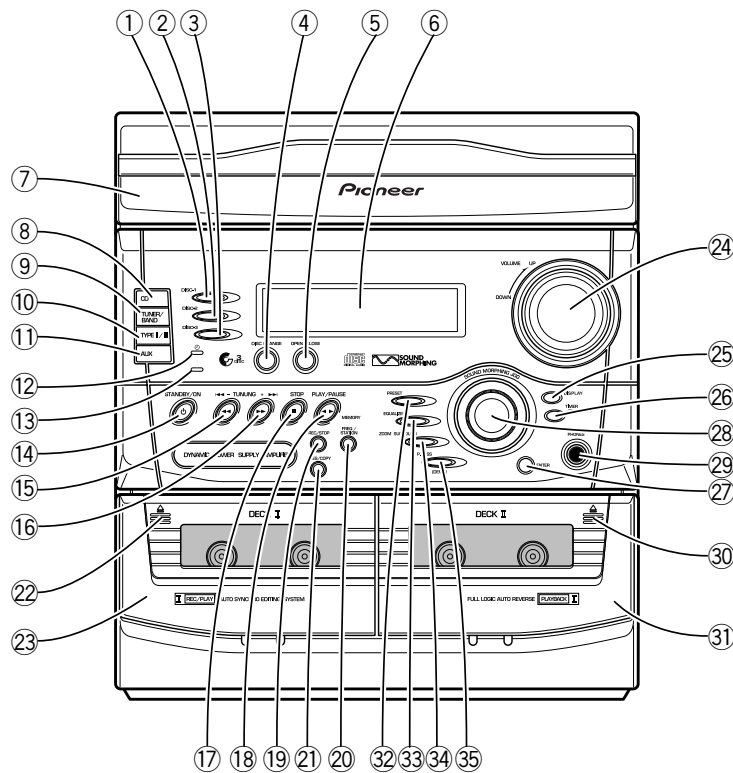




8. PANEL FACILITIES AND SPECIFICATIONS

• PANEL FACILITIES

■ XR-A330, XR-A550



① DISC-1 select button & indicator

② DISC-2 select button & indicator

③ DISC-3 select button & indicator

④ DISC CHANGE button

⑤ OPEN/CLOSE button

⑥ Display

⑦ CD disc tray

⑧ CD Function button

⑨ TUNER / BAND Function button

⑩ TAPE I/II Function button

⑪ AUX Function button

⑫ TIMER indicator

Lights in Standby mode when the system has been set for timer operation.

⑬ STANDBY indicator

⑭ STANDBY/ON switch

⑮ TUNNING ◀◀◀ - button *

⑯ TUNNING + ▶▶▶ button *

⑰ STOP (■) button *

⑱ PLAY / PAUSE , MEMORY button *

⑲ REC / STOP button

⑳ FREQ/STATION button

㉑ ASES/COPY button

㉒ TAPE I Eject button (▲)

㉓ TAPE I cassette door

㉔ Volume control (VOLUME)

㉕ XR-A330 :DISPLAY button

XR-A550 : DISPLAY/RDS button

㉖ TIMER / CLOCK ADJ button

㉗ ENTER button

㉘ S.M. JOG (Sound Morphing JOG)

㉙ PHONES jack (Headphones)

㉚ TAPE II Eject button (▲)

㉛ TAPE II cassette door

㉜ PRESET button

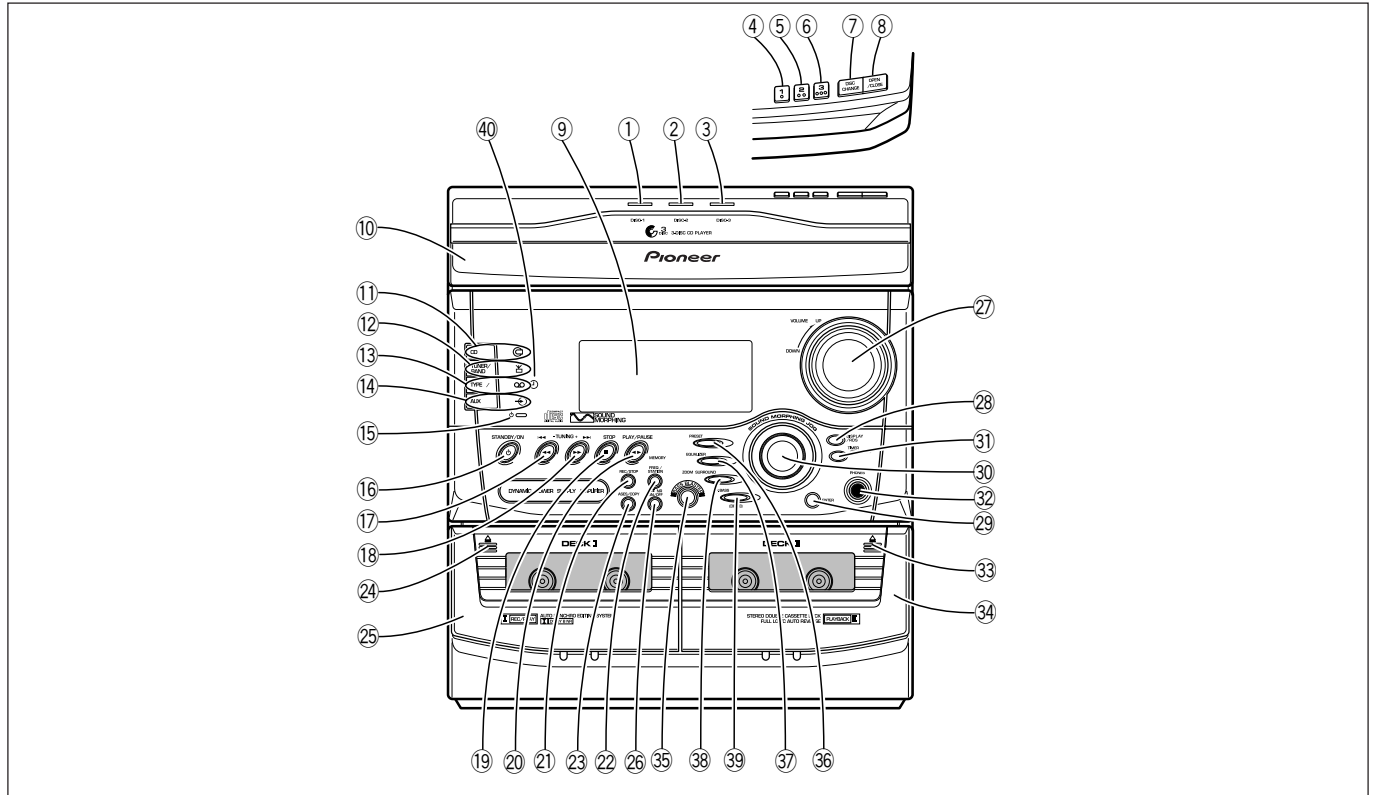
㉝ EQUALIZER button

㉞ ZOOM SURROUND button

㉟ P.BASS (DEMO) button

*
• This button functions differently with CD, TUNER/BAND or TAPE I/II function.

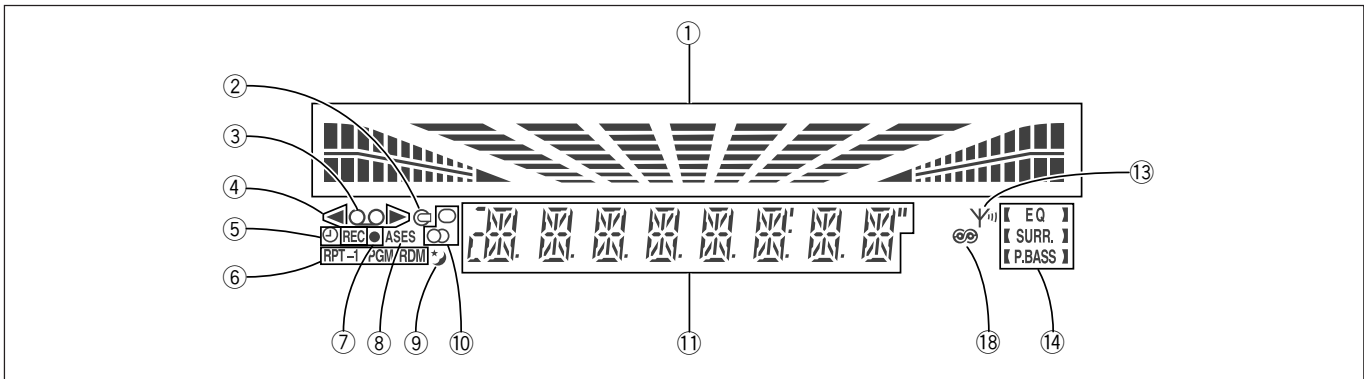
■ XR-A660



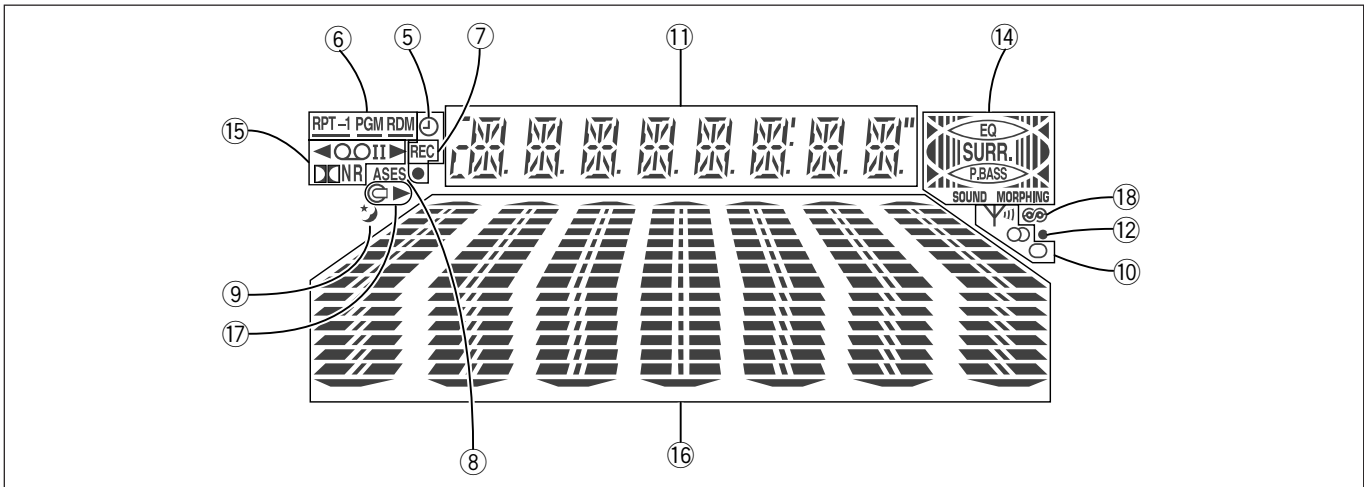
- | | |
|--|--|
| ① DISC-1 indicator | ②5 TAPE I cassette door |
| ② DISC-2 indicator | ②6 Dolby** NR ON/OFF button |
| ③ DISC-3 indicator | ②7 Volume control (VOLUME) |
| ④ DISC-1 select button | ②8 DISPLAY/RDS button |
| ⑤ DISC-2 select button | ②9 ENTER button |
| ⑥ DISC-3 select button | ③0 S.M. JOG (Sound Morphing JOG) |
| ⑦ DISC CHANGE button | ③1 TIMER / CLOCK ADJ button |
| ⑧ OPEN / CLOSE button | ③2 PHONES jack (Headphones) |
| ⑨ Display | ③3 TAPE II Eject button () |
| ⑩ CD disc tray | ③4 TAPE II cassette door |
| ⑪ CD Function button & indicator | ③5 BASS BLASTER button & indicator |
| ⑫ TUNER / BAND Function button & indicator | ③6 PRESET button & indicator |
| ⑬ TAPE I / II Function button & indicator | ③7 EQUALIZER button & indicator |
| ⑭ AUX Function button & indicator | ③8 ZOOM SURROUND button & indicator |
| ⑮ STANDBY indicator | ③9 P.BASS (DEMO) button & indicator |
| ⑯ STANDBY / ON switch | (XR-A770 : BLANCE (DEMO) button & indicator) |
| ⑰ TUNNING - button * | ④0 TIMER indicator |
| ⑱ TUNNING + button * | Lights in Standby mode when the system has been set for timer operation. |
| ⑲ STOP () button * | |
| ⑳ PLAY / PAUSE , MEMORY button * | |
| ㉑ REC / STOP button | |
| ㉒ FREQ / STATION button | |
| ㉓ ASSES / COPY button | |
| ㉔ TAPE I Eject button () | |
- * This button functions differently with CD, TUNER/BAND or TAPE I/II function.
- **
 • Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 • "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

XR-A660, XR-A550, XR-A330

■ XR-A330,XR-A550



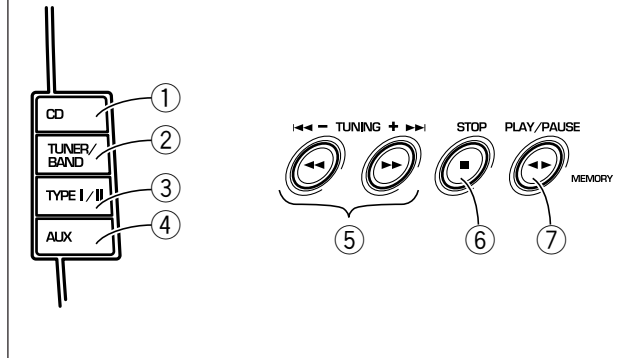
■ XR-A660



Display section

- ① Indicates Audio level.
- ② Lights when the selected function is CD.
- ③ Lights when the selected function is TAPE.
- ④ Indicates CD and TAPE play status.
- ⑤ Displays timer function indications.
- ⑥ Indicates CD function status.
- ⑦ Lights during recording.
- ⑧ Lights during ASES operation.
- ⑨ Lights during Sleep Timer operation.
- ⑩ Indicates tuner operation status.
- ⑪ Displays a wide range of operation status indications.
- ⑫ Lights when BEAT CUT 2 is selected.
- ⑬ Indicates tuner reception status.
- ⑭ Indicates SOUND MORPHING status.
- ⑮ Indicates TAPE status.
- ⑯ Displays Audio level, spectrum analyzer and other indications.
- ⑰ Indicates CD player operation status.
- ⑱ Lights when the RDS mode is selected.

Function button section



- ① CD function button
- ② TUNER/BAND function button
- ③ TAPE I/II function button
- ④ AUX function button
- ⑤ TUNING [◀◀, ▶▶ (-), (+) ▶▶, ▶▶] buttons
- ⑥ STOP button (■)
- ⑦ PLAY/PAUSE 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
 (The XR-A330 and XR-A550 do not feature the Music Search ◀◀ ▶▶ function.)

During tuner operation

PLAY/PAUSE MEMORY: STATION MEMORY button
 (+) ▶▶, ▶▶: Frequency & Station + (up) button
 ◀◀, ◀◀ (-): Frequency & Station - (down) button

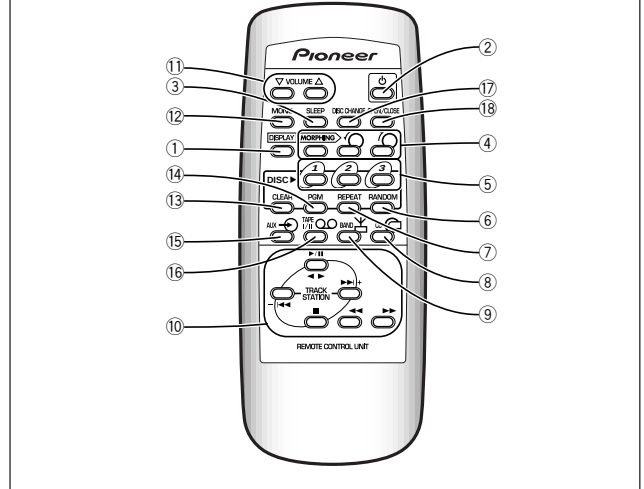
■ Auto Play Function

If you press the CD function button when a CD is loaded, the CD automatically starts playing. If you press the TAPE I/II function button when a tape is loaded in the cassette deck, the tape automatically starts playing.

NOTE:

The function cannot be switched during recording and tape copying.

REMOTE CONTROL UNIT



- ① DISPLAY button
- ② STANDBY / ON button
- ③ SLEEP timer button
- ④ SOUND MORPHING mode button & SOUND MORPHING jog control buttons
- ⑤ DISC select buttons (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 ▶/II, Track search ◀◀▶▶, Stop ■, Fast ◀◀▶▶)
 - TAPE operation buttons
(Play ◀▶, Music Search ◀◀▶▶, Stop ■, Fast ◀◀▶▶)
(The XR-A330 and XR-A550 do not feature the Music Search ◀◀▶▶ function.)
 - TUNER 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) buttons
- ⑫ MONO button
- ⑬ CLEAR button
- ⑭ PGM button
- ⑮ AUX function button
- ⑯ TAPE I / II function button
- ⑰ DISC CHANGE button
- ⑱ OPEN/CLOSE button

XR-A660, XR-A550, XR-A330

• SPECIFICATIONS

Continuous Power Output

XR-A660, XR-A550 (RMS)	100 W + 100 W (1 kHz, T.H.D. 10 %, 6 Ω)
XR-A660, XR-A550 (DIN)	70 W + 70 W (1 kHz, T.H.D. 1 % , 6 Ω)
XR-A330 (RMS)	70 W + 70 W (1 kHz, T.H.D. 10 %, 6 Ω)
XR-A330 (DIN)	48 W + 48 W (1 kHz, T.H.D. 1 % , 6 Ω)

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

Music Power (DIN)

XR-A660, XR-A550	168 W + 168 W
XR-A330	130 W + 130 W

- 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	531 kHz to 1,602 kHz
Antenna input	Loop antenna

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	
XR-A330 , XR-A550	TYPE I (Normal) tape
XR-A660	TYPE I (Normal) tape / TYPE II (HIGH/CrO ₂) tape

Miscellaneous

Power Requirements	AC 220-230V, 50/60 Hz
Power Consumption	
XR-A660	150 W
XR-A550	120 W
XR-A330	90 W
Power Consumption in standby mode	1 W

Dimensions

XR-A330, XR-A550, XR-A660	270 (W) x 300 (H) x 336 (D) mm
Weight (without package)	
XR-A330	7.6 kg
XR-A660, XR-A550	8.0 kg

Accessories

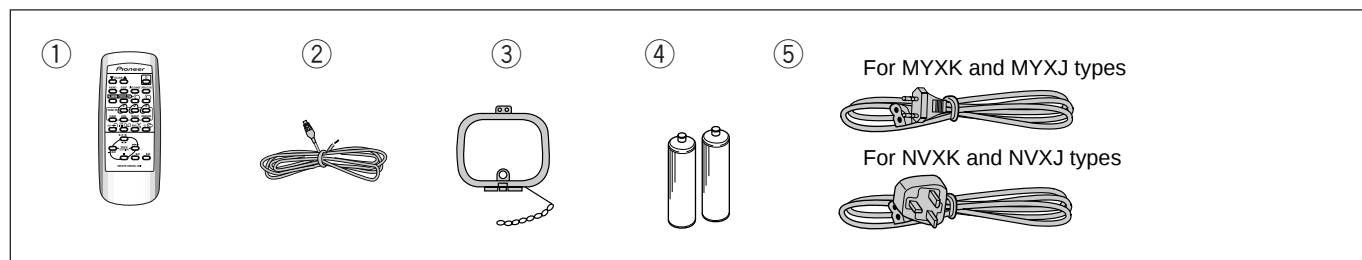
Operating instructions	1
Remote control unit	1
Size AA/R6P dry cell batteries	2
FM antenna	1
AM loop antenna	1
Power Cord	1

NOTE:

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

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.



- ① Remote control unit x 1 : XZN3006 (CU-XR048)
- ② FM antenna x 1 : ADH7005
- ③ AM loop antenna x 1 : ATB7007 (MYXK and NVXK types)
XTB3001 (MYXJ and NVXJ types)
- ④ AA/R6P dry cell batteries x 2
- ⑤ Power Cord x 1 : ADG7010 (MYXK type), ADG7009 (NVXK type)
ADG1154 (MYXJ type), ADG1156 (NVXJ type)