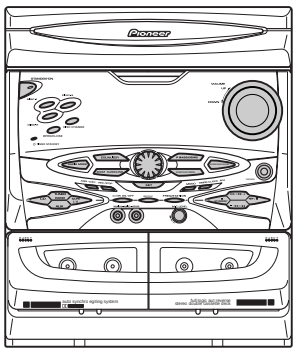
Service Manual



• XR-A6800

ORDER NO.
RRV2328

STEREO CD CASSETTE DECK RECEIVER

XR-A6800
XR-A4800

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

Type	Model		Power Requirement	Remarks
	XR-A6800	XR-A4800		
MYXJ	◯	◯	AC220-230V	
NVXJ	–	◯	AC230V	

CONTENTS

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

T – IZK JULY 2000 Printed in Japan

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.

WARNING !

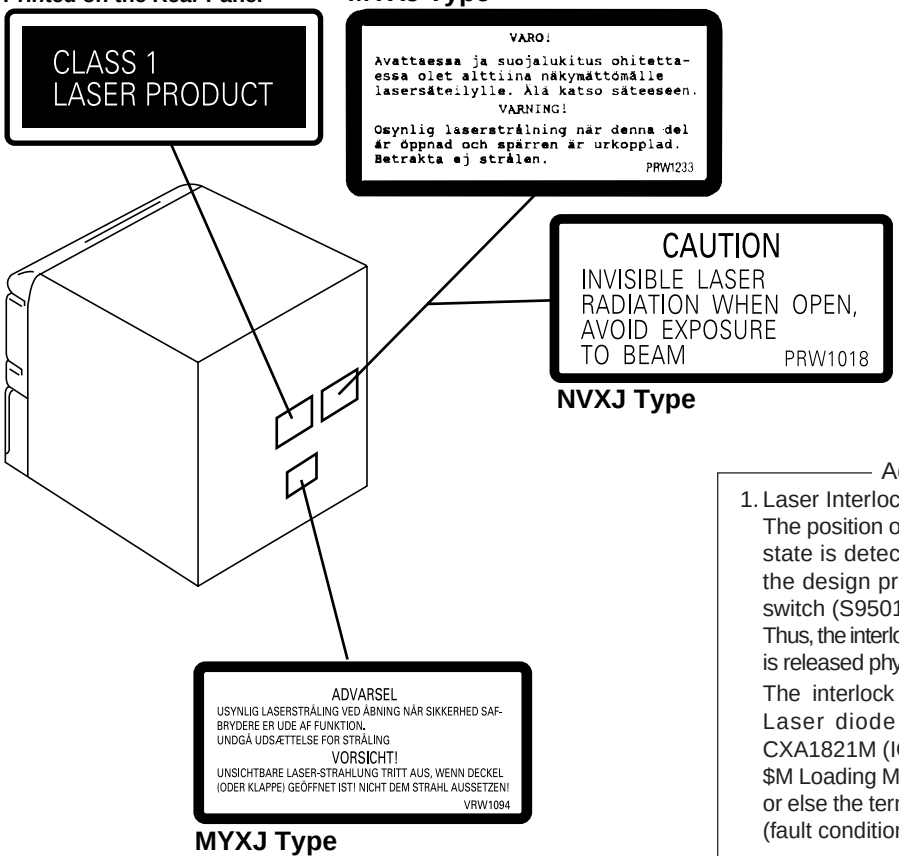
THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1.
A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

LASER DIODE CHARACTERISTICS

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

LABEL CHECK (For MYXJ and NVXJ Types)

Printed on the Rear Panel



MYXJ Type

NVXJ Type

MYXJ Type

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S9501) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S9501) is pressed physically.
   Thus, the interlock will no longer function if the switch (S9501) is released physically and deliberatery.
   The interlock also does not function in the test mode ∗. Laser diode oscillation will continue, if pin 1 of CXA1821M (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).

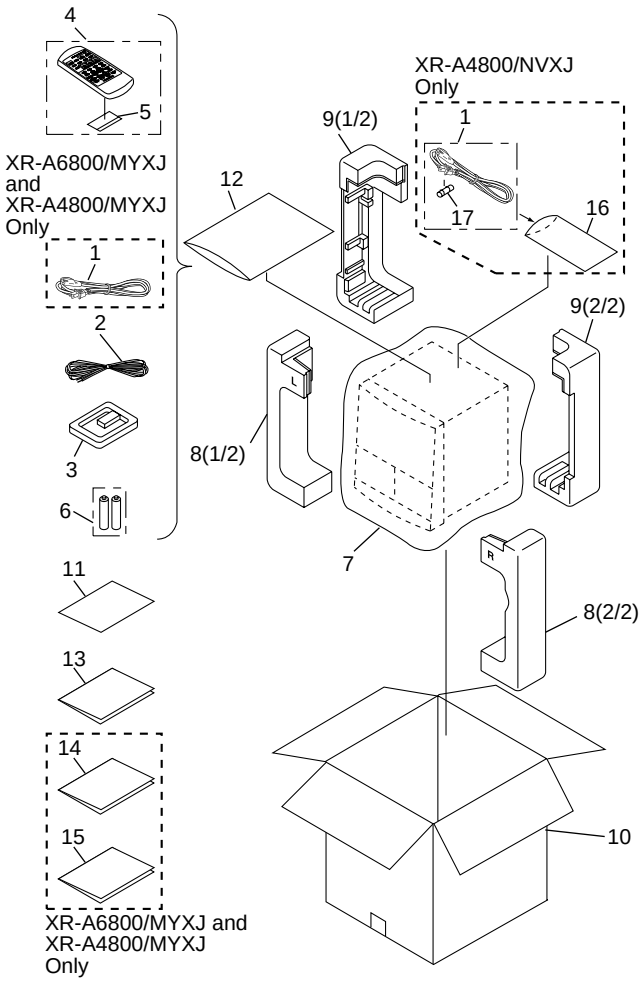
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

∗ : 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 ⚠ 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

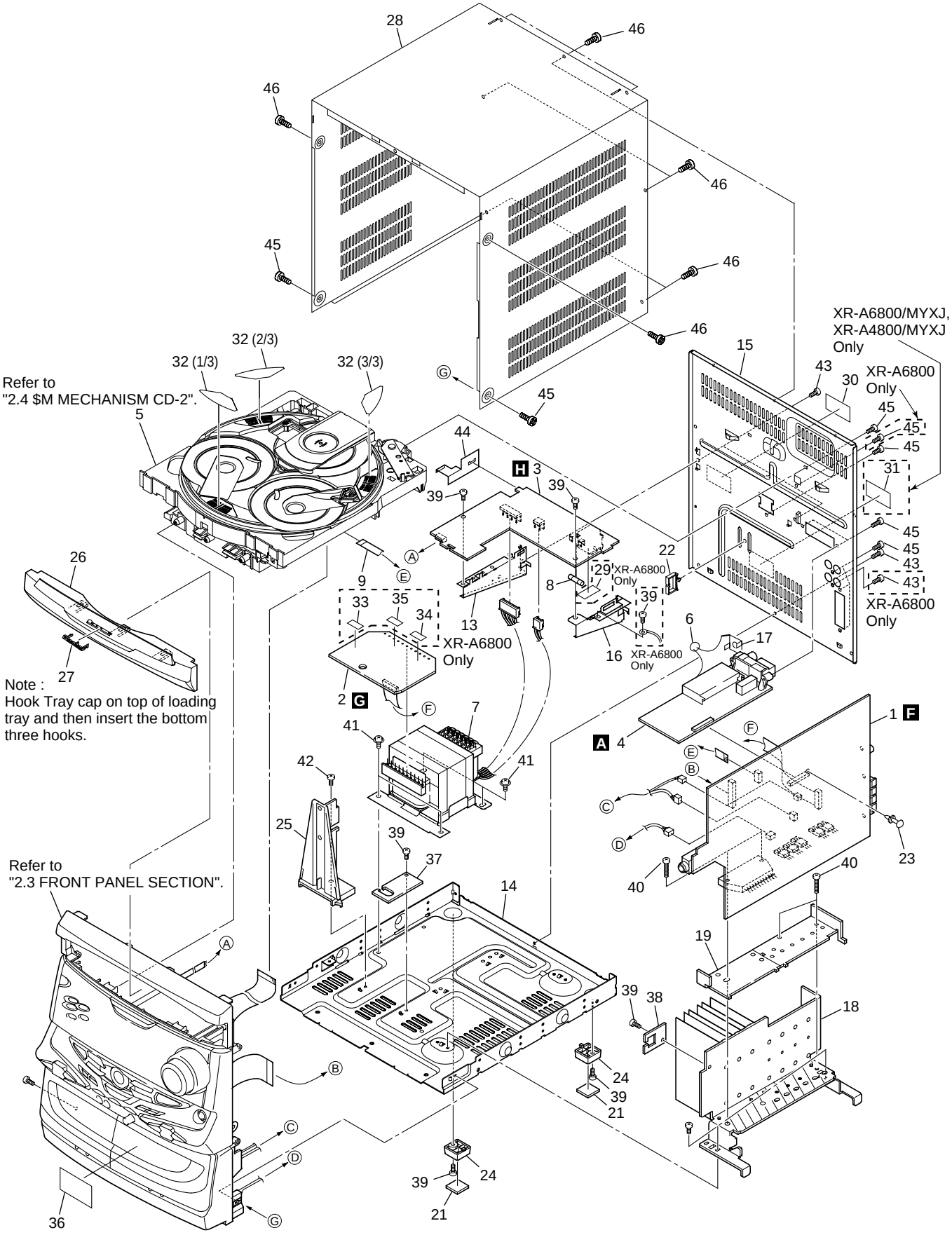
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
	2	FM Antenna	ADH7005
	3	AM Loop Antenna	XTB3001
	4	Remote Control Unit	XZN3106
	5	Battery Cover	XZN3103
NSP	6	Dry Cell Battery (R6P, AA)	VEM-013
	7	Packing Sheet	AHG7049
	8	Front Pad	XHA3018
	9	Rear Pad	XHA3019
	10	Packing Case	See Contrast table (2)
NSP	11	Warranty Card	ARY7022
	12	Polyethylene Bag ($0.03 \times 230 \times 340$)	Z21-038
	13	Operating Instructions (English/French)	XRE3030
	14	Operating Instructions (Italian/Dutch/German)	See Contrast table (2)
	15	Operating Instructions (Portuguese/Swedish/Spanish)	See Contrast table (2)
NSP	16	Polyethylene Bag	See Contrast table (2)
⚠	17	Fuse (T5A)	See Contrast table (2)

(2) CONTRAST TABLE

XR-A6800/MYXJ, XR-A4800/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			XR-A6800/MYXJ	XR-A4800/MYXJ	XR-A4800/NVXJ	
⚠	1	Power Cord	ADG1154	ADG1154	ADG1156	
	10	Packing Case	XHD3143	XHD3142	XHD3142	
	14	Operating Instructions (Italian/Dutch/German)	XRC3020	XRC3020	Not used	
	15	Operating Instructions (Portuguese/Swedish/Spanish)	XRC3021	XRC3021	Not used	
NSP	16	Polyethylene Bag	Not used	Not used	AHG7033	
⚠	17	Fuse (T5A)	Not used	Not used	AEK7001	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

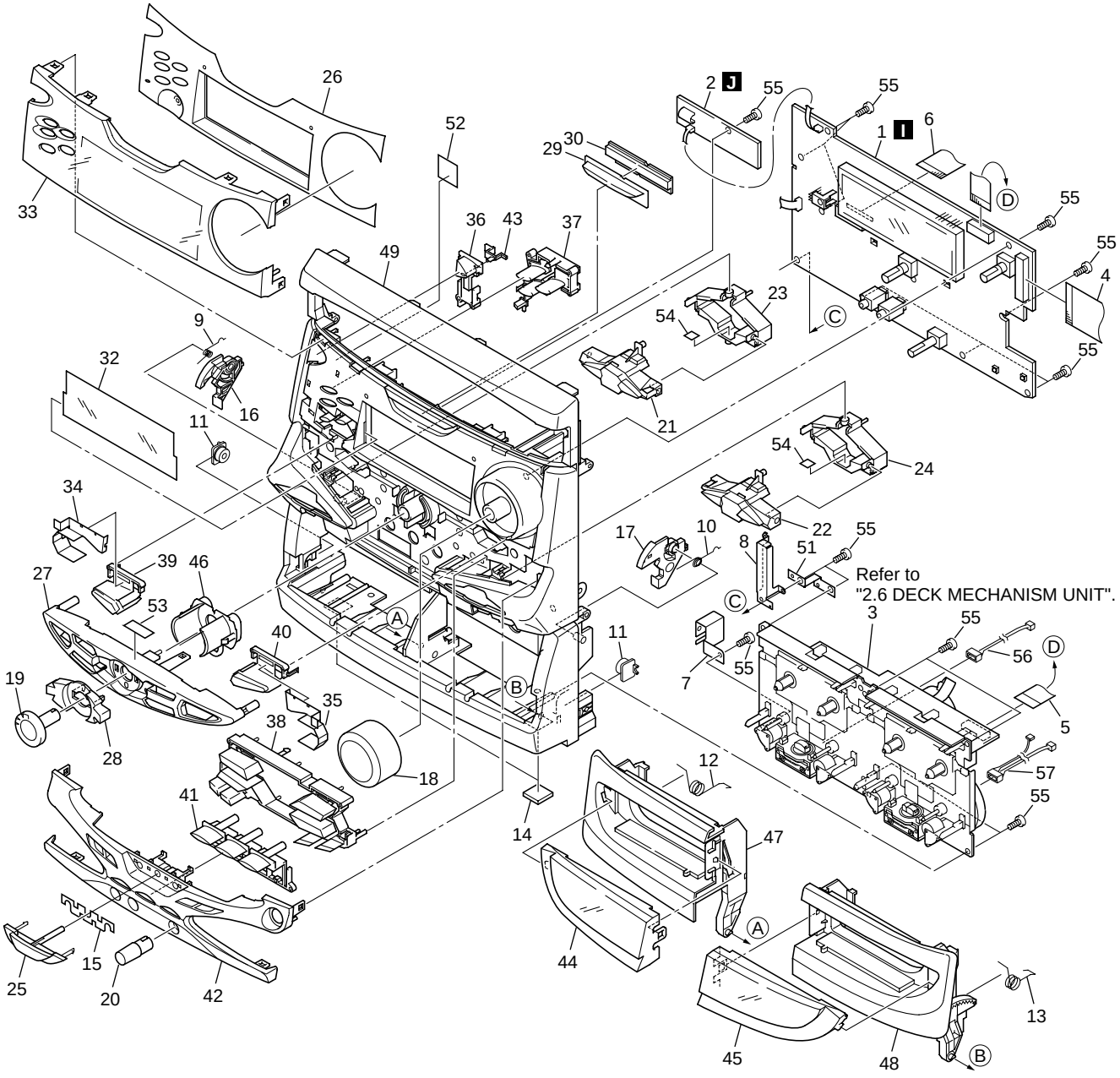
Mark	No.	Description	Part No.
	1	AF Assy	See Contrast table (2)
	2	SECONDARY Assy	See Contrast table (2)
	3	PRIMARY Assy	See Contrast table (2)
	4	FM/AM TUNER Module	AXQ7068
NSP	5	$M MECHANISM CD-2	See Contrast table (2)
⚠	6	Ceramic Capacitor (C1)	CKPUYB102K50
⚠	7	Power Transformer (T1)	See Contrast table (2)
⚠	8	Fuse (FU2)	See Contrast table (2)
	9	Flexible Cable (08P)	XDD3048
	10	• • • • •	
	11	• • • • •	
	12	• • • • •	
	13	PCB Bracket	ANG7263
NSP	14	Chassis	XNA3005
	15	Rear Panel	See Contrast table (2)
	16	PCB Bracket	XNG3006
	17	Earth Plate	XNG3015
	18	Heat Sink	See Contrast table (2)
	19	Sub Heat Sink B	XNH3012
	20	• • • • •	
	21	Cushion Leg A	XEB3008
	22	Wire Clip A	XEC3003
	23	Card Spacer	XEC3008
	24	Leg	XMR3012
	25	SEC Holder A	See Contrast table (2)
	26	Tray Cap Assy	XAK3156
	27	Pioneer Badge	XAM3001
	28	Bonnet Case	XZN3098
NSP	29	Fuse Card	See Contrast table (2)
	30	Caution Label HE	See Contrast table (2)
	31	Caution Label	See Contrast table (2)
	32	Disc Label	XAX3127
	33	ICP Label	See Contrast table (2)
	34	ICP Label	See Contrast table (2)
	35	ICP Label	See Contrast table (2)
NSP	36	Getter	See Contrast table (2)
NSP	37	DO NOT THROW Assy	• • • • •
NSP	38	CABLE HOLDER Assy	• • • • •
	39	Screw	BBZ30P080FMC
	40	Screw	BBZ30P180FMC
	41	Screw	ASZ40P060FMC
	42	Screw	BPZ30P080FMC
	43	Screw	VBZ30P080FZK
	44	Barier	XEC3013
	45	Screw	BPZ30P100FZK
	46	Screw	VBT30P080FZK

(2) CONTRAST TABLE

XR-A6800/MYXJ, XR-A4800/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			XR-A6800/MYXJ	XR-A4800/MYXJ	XR-A4800/NVXJ	
	1	AF Assy	XWZ3310	XWZ3297	XWZ3297	
	2	SECONDARY Assy	XWZ3304	XWZ3289	XWZ3289	
	3	PRIMARY Assy	XWZ3312	XWZ3299	XWZ3299	
NSP	5	$M MECHANISM CD-2	XXA3012	XXA3009	XXA3009	
⚠	7	Power Transformer (T1)	XTS3037	XTS3036	XTS3036	
⚠	8	Fuse (FU2)	AEK1061 (T5A)	AEK1060 (T4A)	AEK1060 (T4A)	
	15	Rear Panel	XNC3058	XNC3053	XNC3053	
	18	Heat Sink	XNH3010	XNH3009	XNH3009	
	25	SEC Holder A	XMR3014	XMR3015	XMR3015	
NSP	29	Fuse Card	AAX7098	Not used	Not used	
	30	Caution Label HE	PRW1233	PRW1233	PRW1018	
	31	Caution Label	VRW1094	VRW1094	Not used	
	33	ICP Label	XAX3121	Not used	Not used	
	34	ICP Label	XAX3153	Not used	Not used	
	35	ICP Label	XAX3158	Not used	Not used	
NSP	36	Getter	XAX3169	XAX3163	XAX3163	

2.3 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

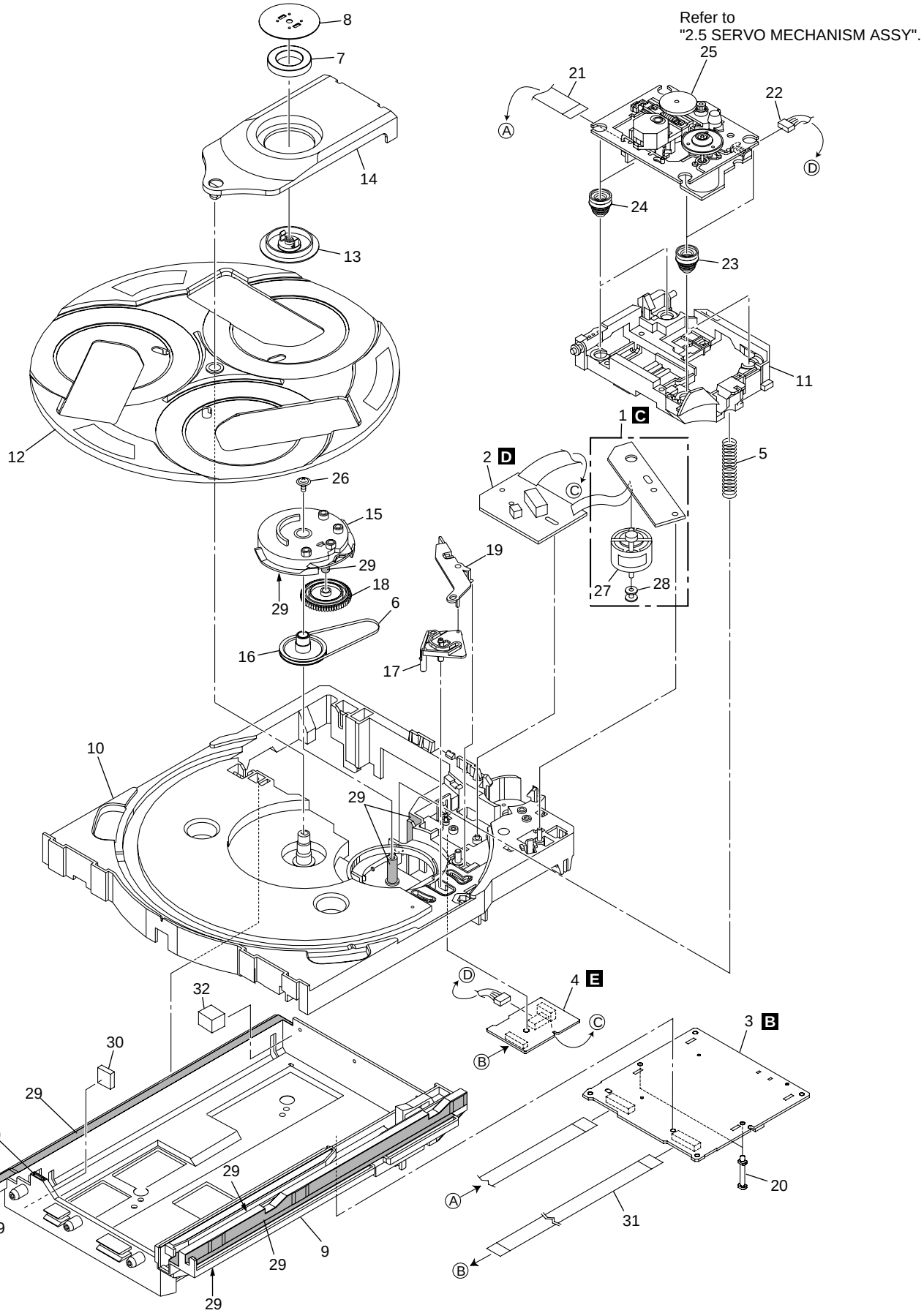
Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)
	2	BLUE LED Assy	XWZ3292
	3	Deck Mechanism Unit	XYM3012
	4	Flexible Cable 27P	XDD3041
	5	Flexible Cable 15P	XDD3050
	6	Flexible Cable 19P	XDD3051
	7	GND Plate B	XNG3031
	8	GND Plate C	See Contrast table (2)
	9	Ratch Spring_L	ABH7130
	10	Ratch Spring_R	ABH7131
	11	Damper Assy	XXA3025
	12	Door Spring_L	XBH3010
	13	Door Spring_R	XBH3011
	14	Cushion Leg A	XEB3008
	15	Cushion Spring	XEB3010
	16	Ratch Mold_L	XMR3001
	17	Ratch Mold_R	XMR3002
	18	Volume Knob	XAA3013
	19	JOG Knob	XAA3015
	20	MIC Knob	XAB3007
	21	FUNC Button L	See Contrast table (2)
	22	FUNC Button R	See Contrast table (2)
	23	FUNC Frame L	XAD3052
	24	FUNC Frame R	XAD3053
	25	CD ENT Button	XAD3055
	26	Display Panel	See Contrast table (2)
	27	EQ Panel	See Contrast table (2)
	28	JOG Lens	XAK3152
	29	V Lens	XAK3153
	30	LT Conductor	XAK3155
	31	• • • • •	
	32	FL Filter	XAK3162
	33	FL Cover	XAK3163
	34	Cover Sheet L	XAK3184
	35	Cover Sheet R	XAK3185
	36	Power Button	See Contrast table (2)
	37	CD Button	XAD3045
	38	SC Button	XAD3046
	39	SC Button L	XAD3047
	40	SC Button R	XAD3048
	41	DOLBY Button	XAD3054
	42	Sub Panel	See Contrast table (2)
	43	ST Lens	XAK3151
	44	Deck Lens L	XAK3159
	45	Deck Lens R	XAK3160
	46	JOG Conductor	XAK3165
	47	Deck Door_L	See Contrast table (2)
	48	Deck Door_R	See Contrast table (2)
	49	Front Panel	XMB3026
	50	• • • • •	
	51	GND Plate A	See Contrast table (2)
	52	Spacer	XEB3012
	53	Spacer	XEB3013
	54	Spacer	XEB3011
	55	Screw	BPZ30P080FMC
	56	Connector Assy 3P	XDE3037
	57	Connector Assy 5P	XDE3038

(2) CONTRAST TABLE

XR-A6800/MYXJ, XR-A4800/MYXJ and NVXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			XR-A6800/MYXJ	XR-A4800/MYXJ	XR-A4800/NVXJ	
	1	DISPLAY Assy	XWZ3311	XWZ3298	XWZ3298	
	8	GND Plate C	XNG3047	Not used	Not used	
	21	FUNC Button L	XAD3050	XAD3076	XAD3076	
	22	FUNC Button R	XAD3051	XAD3077	XAD3077	
	26	Display Panel	XAK3130	XAK3125	XAK3125	
	27	EQ Panel	XAK3150	XAK3149	XAK3149	
	36	Power Button	XAD3044	XAD3043	XAD3043	
	42	Sub Panel	XAK3142	XAK3137	XAK3137	
	47	Deck Door_L	XAN3022	XAN3021	XAN3021	
	48	Deck Door_R	XAN3026	XAN3025	XAN3025	
	51	GND Plate A	Not used	XNG3030	XNG3030	

2.4 $M MECHANISM CD-2



(1) $M MECHANISM CD-2 PARTS LIST

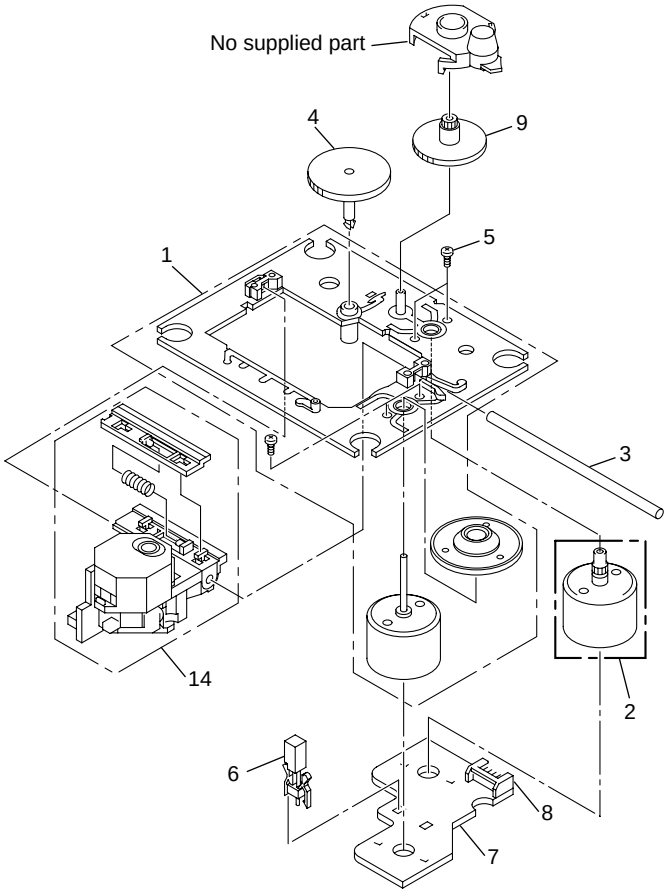
Mark	No.	Description	Part No.
	1	MOTOR Assy	XWZ3230
	2	SW Assy	XWZ3231
	3	CD Assy	See Contrast table (2)
	4	TRADE Assy	XWZ3232
	5	Servo Spring	ABH7126
	6	Belt	AEB7072
	7	Clamp Magnet	AMF7001
	8	Yoke	ANB7216
	9	Mecha Base	XNW3011
	10	Loading Tray	XNW3002
	11	Traverse Base	XNW3006
	12	Rotary Tray	ANW7124
	13	Clamper	XNW3007
	14	Clamper Holder	XNW3004
	15	Main Cam	ANW7093
	16	Gear Pulley	ANW7094
	17	Lock Lever	ANW7095
	18	Planet Gear	ANW7096
	19	Actuator	ANW7097
	20	Mini Card Spacer	AEC7143
	21	16P 200 Flexible Cable/60V	XDD3036
	22	Connector Assy (6P)	ADE7010
	23	Float Rubber A	AEB7063
	24	Float Rubber B	AEB7066
	25	Servo Mechanism Assy	XXA3010
	26	Screw	IPZ30P080FMC
	27	Carriage Motor	VXM1033
	28	Motor Pulley	PNW1634
	29	Ha Narl	GEM1016
	30	Cushion Rubber	XEB3005
	31	11P 185 Flexible Cable/30V	XDD3037
	32	Cushion Rubber	XEB3007

(2) CONTRAST TABLE

$M MECHANISM CD-2 (XXA3012) and (XXA3009) are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			XXA3012 (XR-A6800)	XXA3009 (XR-A4800)	
	3	CD Assy	XWZ3233	XWZ3229	

2.5 SERVO MECHANISM ASSY

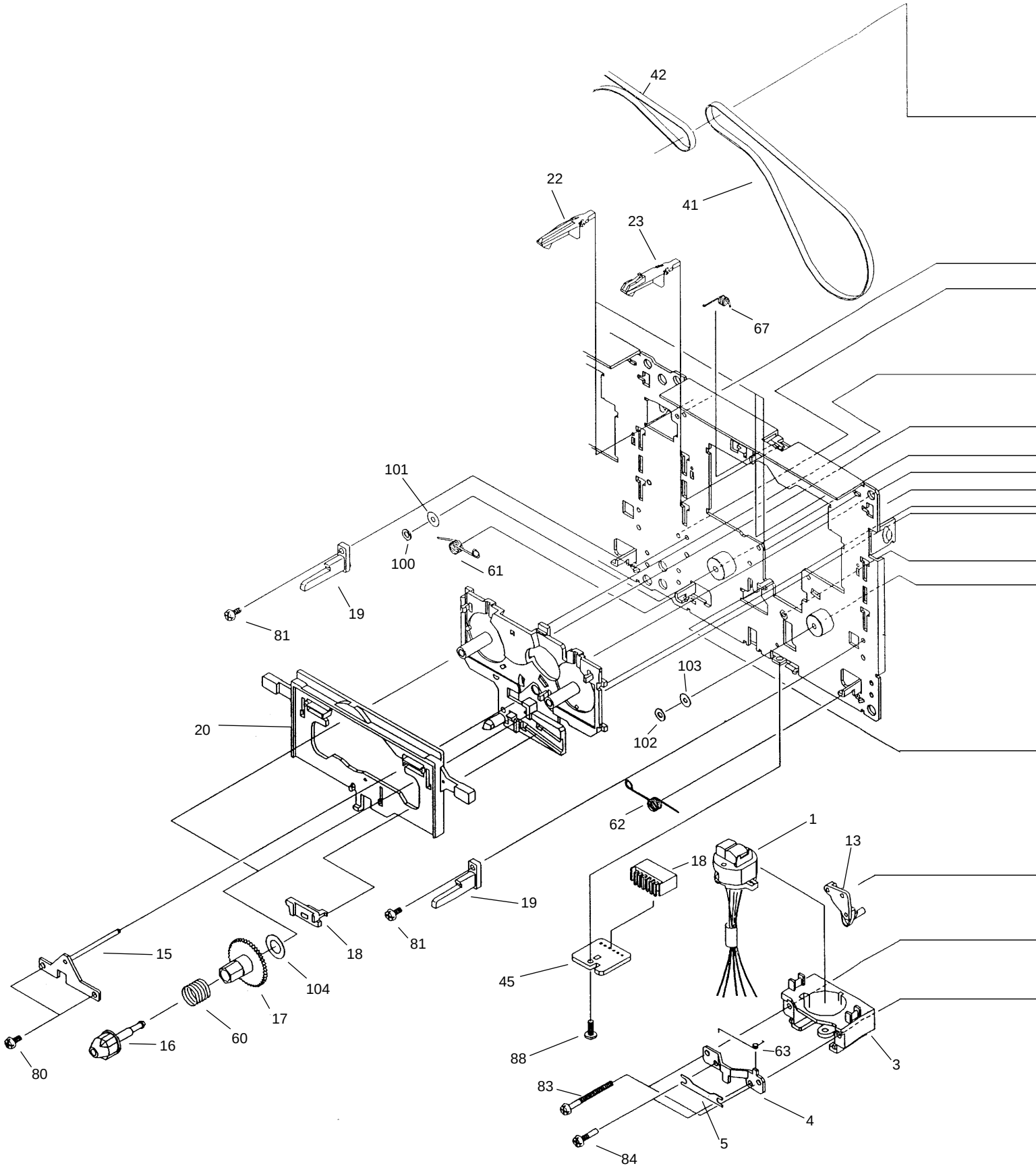


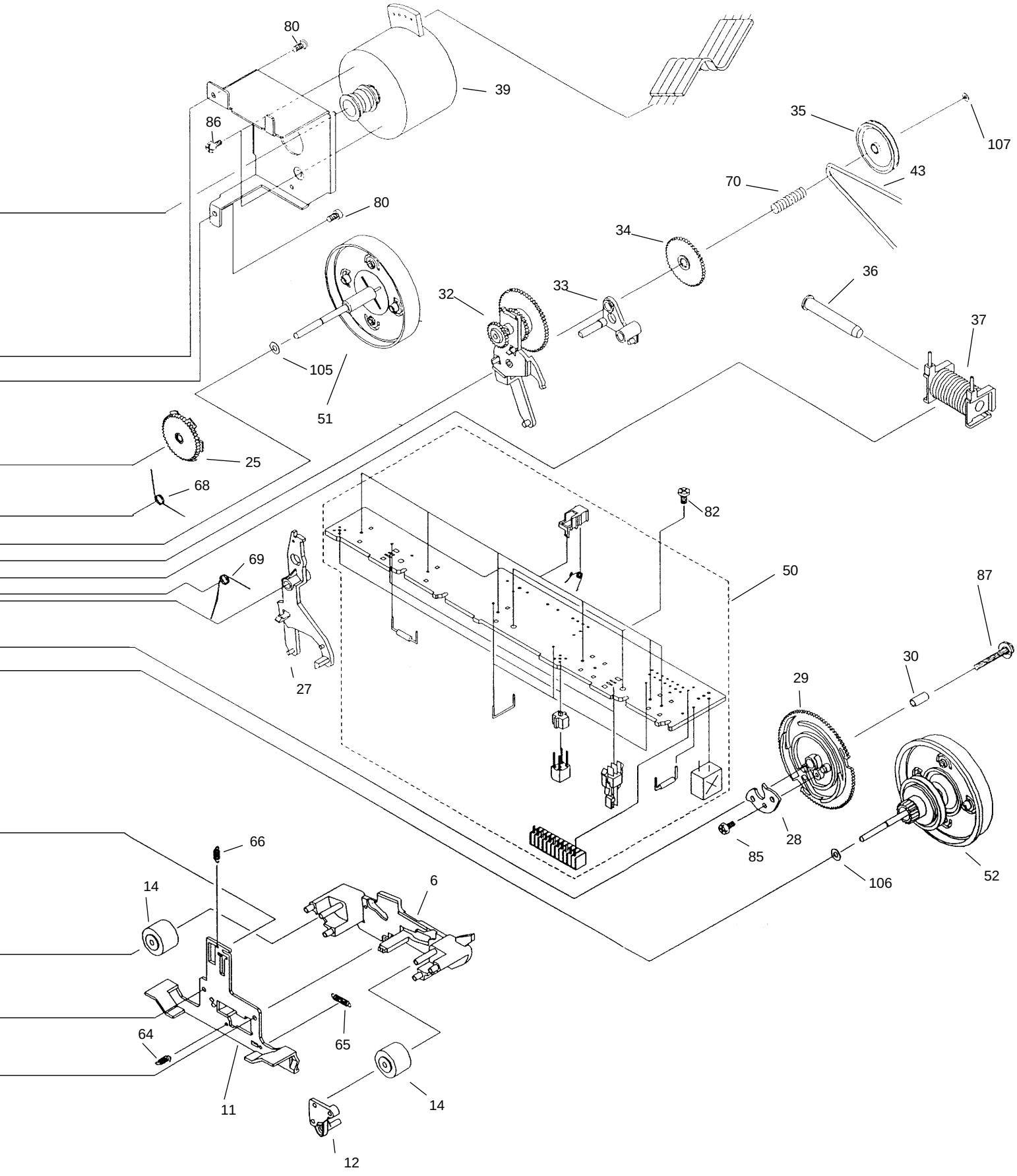
● SERVO MECHANISM ASSY PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Motor Chassis Assy	• • • • •
	2	Motor Gear Assy	X-2625-769-(1)
	3	Sled Shaft	2-626-908-(01)
	4	Gear (A)(S)	2-625-188-(02)
NSP	5	Screw +P2*3	• • • • •
	6	Leaf Switch	1-572-085-(11)
	7	Motor(6p)(S)PCB	1-639-678-(12)
	8	Connector Pin 6p	1-564-722-(11)
	9	Gear(B)(RP)	2-627-003-(01)
	10	• • • • •	
	11	• • • • •	
	12	• • • • •	
	13	• • • • •	
	14	KSS-213C(Pick-up)	8-848-483-(05)

2.6 DECK MECHANISM UNIT

• DECK MECHANISM UNIT (1/2)

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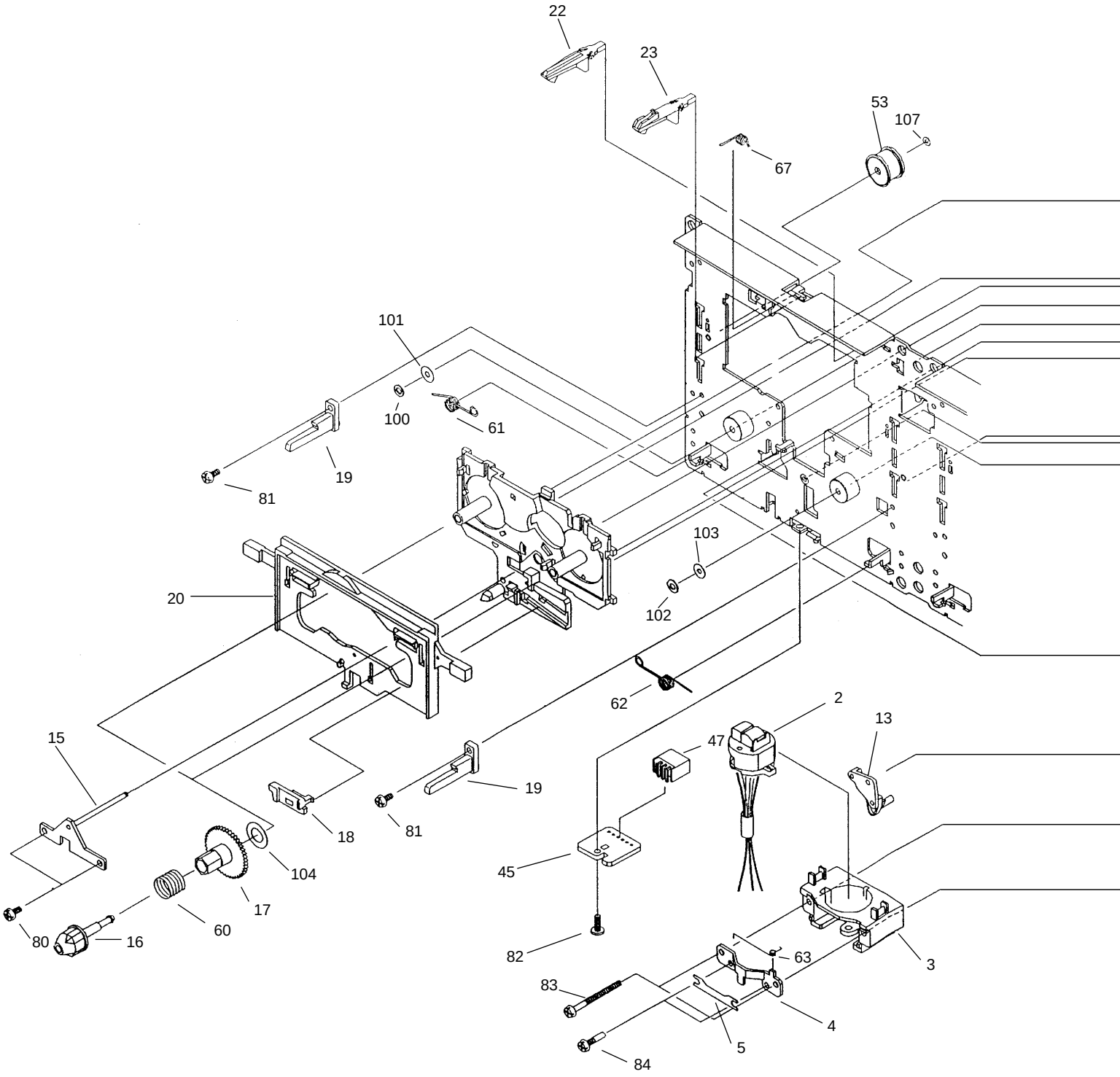
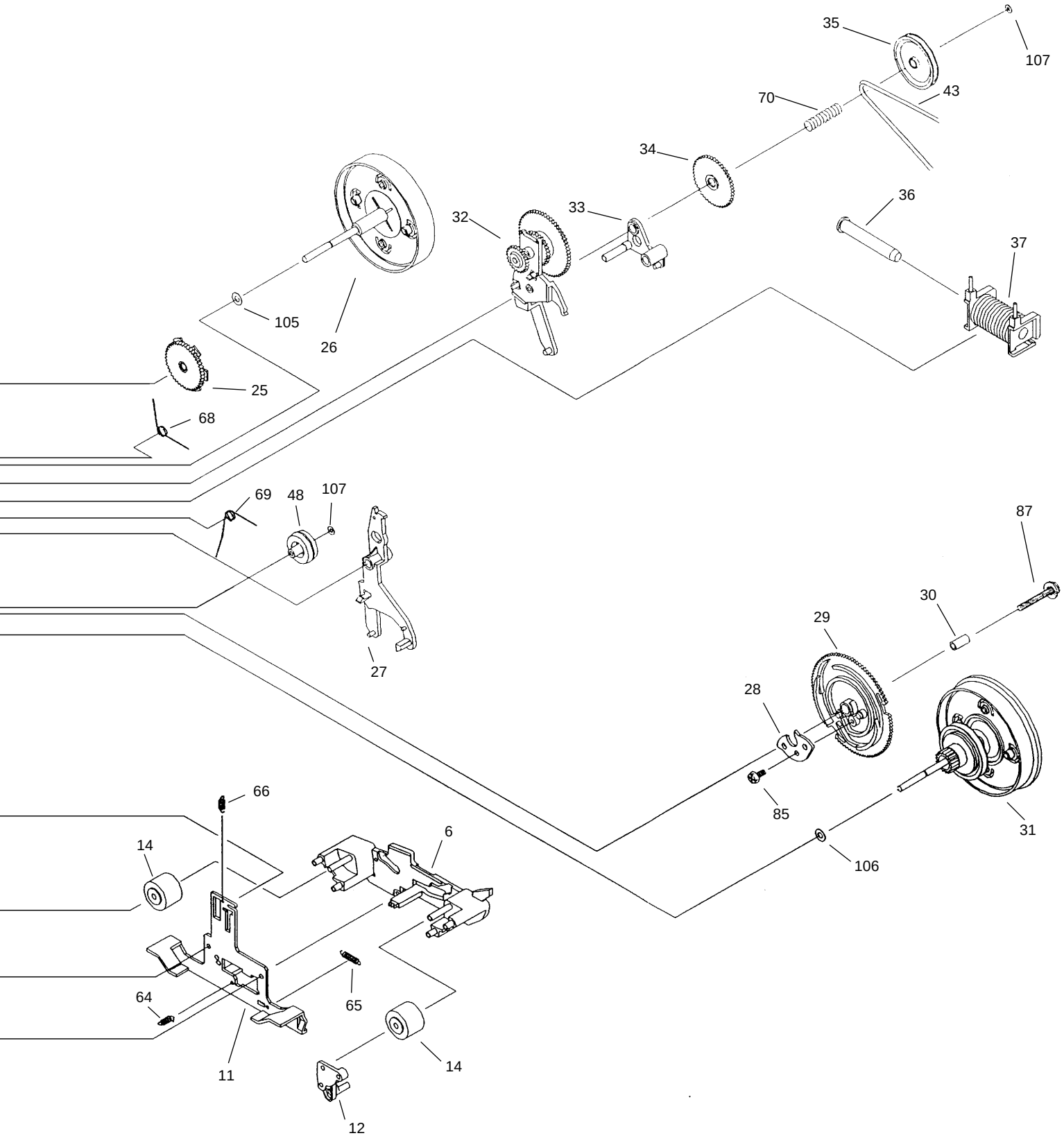
• DECK MECHANISM UNIT (2/2)

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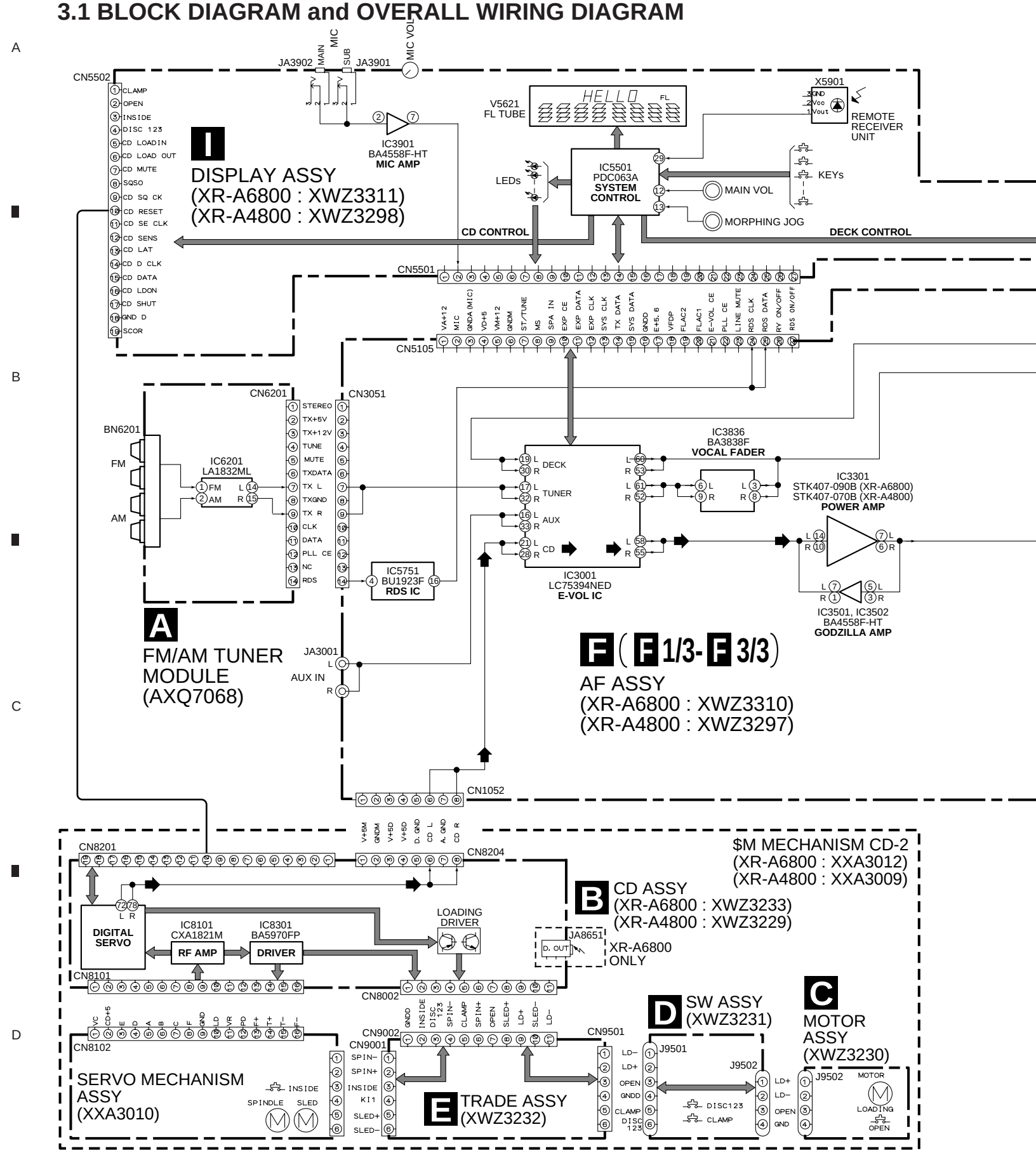
● DECK MECHANISM UNIT PARTS LIST

Mark	No.	Description	Part No.
	1	Assy'y HD Holder	50-093-4373
	2	Assy'y HD Holder	50-093-4104
	3	Frame HD	50-219-3024
	4	Plate AZ	50-119-4046
	5	Spring AZ	50-160-4108
	6	Lever HD	50-259-3342
	11	Chassis HD	50-112-3045
	12	Cap Pinch R	50-219-4033
	13	Cap Pinch L	50-219-4034
	14	Roller Pinch	50-027-41054
	15	Ass'y Plate D	50-219-4311
	16	Cap Reel	50-228-4020
	17	Gear Reel	50-222-4006
	18	Lever ST	50-259-4041
	19	Guide C	50-219-4014
	20	Lever Brake	50-259-3251
	22	Arm SW	50-239-4027
	23	Arm CS	50-239-4026
	25	Ass'y Cover	50-093-4063
	26	Ass'y Flywheel LA	50-093-3366
	27	Arm Trigger	50-268-3016
	28	Arm Cam	50-139-4292
	29	Gear Cam	50-221-3009
	30	Coller	03-300-4455
	31	Ass'y Flywheel RA	50-093-3360
	32	Ass'y Clutch	50-093-4069
	33	Arm UD A	50-239-4017
	34	Gear UD	50-222-4007
	35	Pulley D	50-223-4254
	36	Plunger	03-300-4442
	37	Ass'y Bobbin	50-093-4125
	39	Ass'y Motor	50-093-4316
	41	Belt BR	02-084-4205
	42	Belt AR	02-084-4203
	43	Belt FR	02-083-4188
	45	PCB HD	50-070-4057
	46	Housing	S5BPHKS
	47	Housing	S3BPHKS
	48	Pulley IDL	50-223-4023
	50	Ass'y PCB	50-093-4363
	51	Ass'y Flywheel L	50-093-3367
	52	Ass'y Flywheel RB	50-093-3361
	53	Pulley	33-229-4264

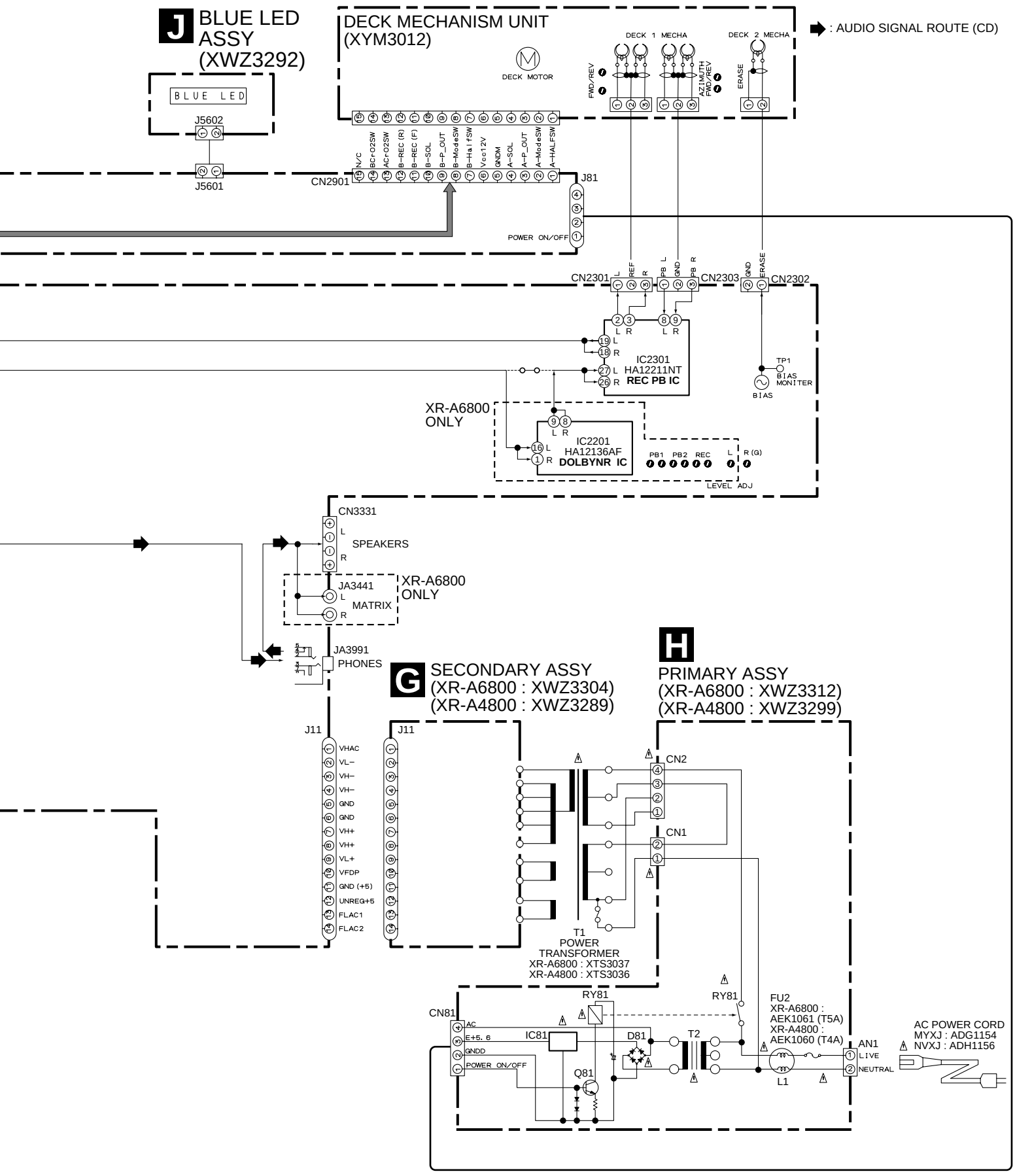
Mark	No.	Description	Part No.
	60	Spring	01-081-4601
	61	Spring	01-082-4652
	62	Spring	01-082-4651
	63	Spring	01-082-4650
	64	Spring	01-080-4649
	65	Spring	01-080-4607
	66	Spring	01-080-4635
	67	Spring	01-082-4654
	68	Spring	01-082-4598
	69	Spring	01-082-4597
	70	Spring	01-081-4657
	80	Screw	GSE10A2003
	81	Screw	GSE20A2005
	82	Screw	GSE10A2004
	83	Screw	GSD10A2018
	84	Screw	03-300-4056
	85	Screw	GSL10A1704
	86	Screw	GSP10A2603
	87	Screw	GSP11A2012
	88	Screw	GSE20A2004
	100	Washer	GWN21X040040
	101	Washer	GWM19X055035S
	102	Washer	GWM19S035035
	103	Washer	GWM17S050035S
	104	Washer	GWM48X075010
	105	Washer	GWP23X040020
	106	Washer	GWP21X045020
	107	Washer	GWP12X030040S

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

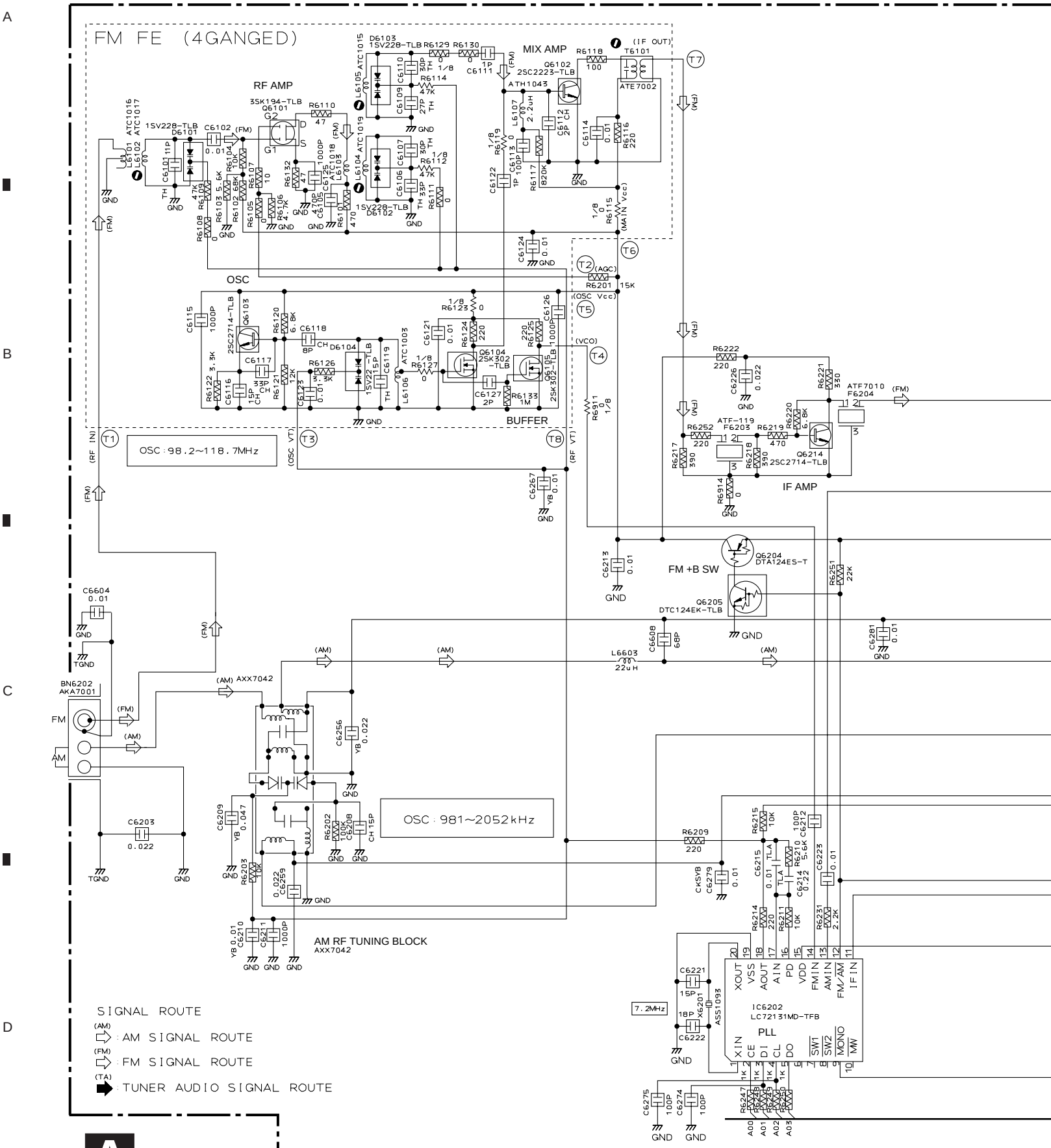
3.1 BLOCK DIAGRAM and OVERALL WIRING DIAGRAM



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



3.2 FM/AM TUNER MODULE

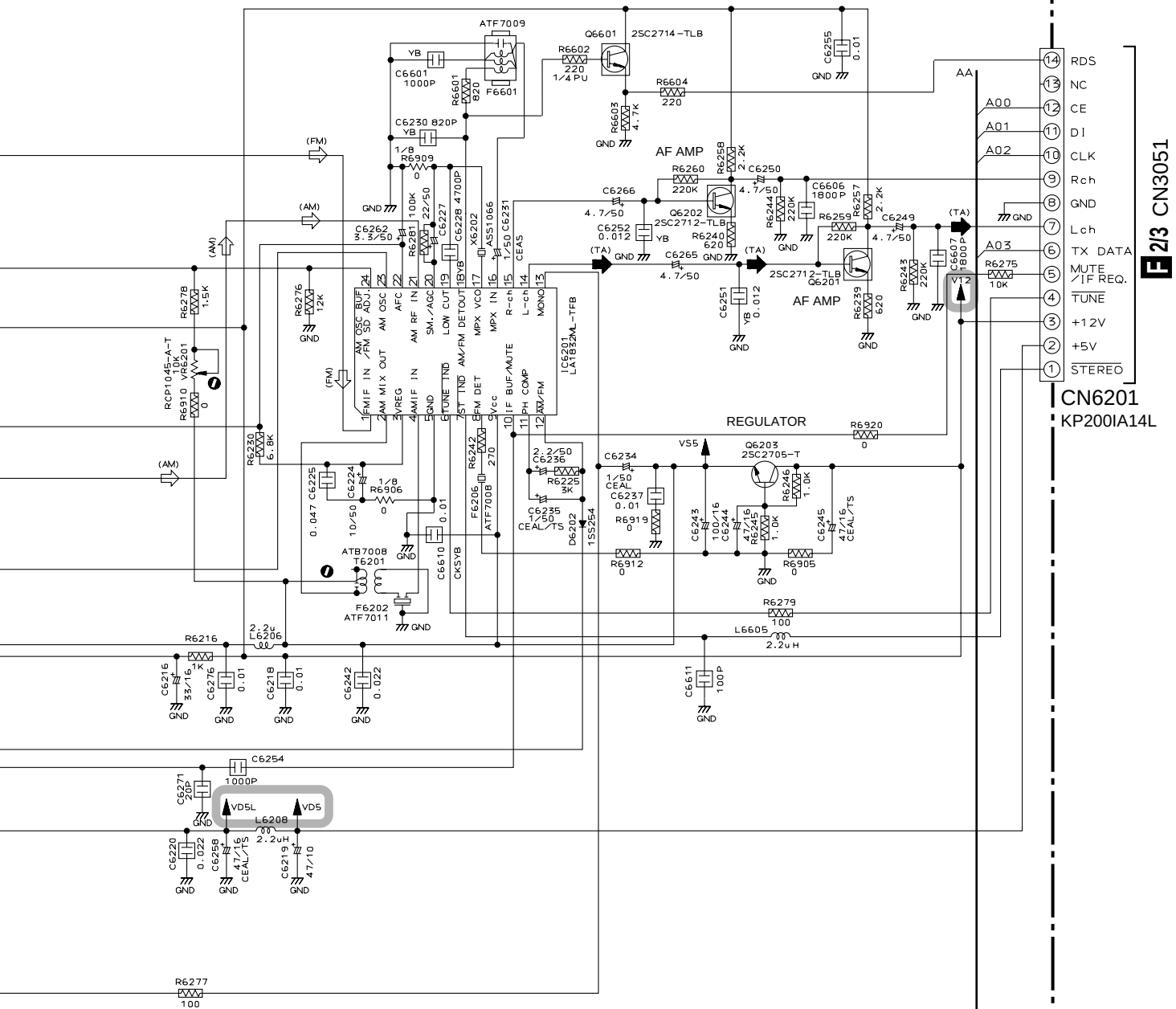


A FM/AM TUNER MODULE (AXQ7068)

: The power supply is shown with the marked box.

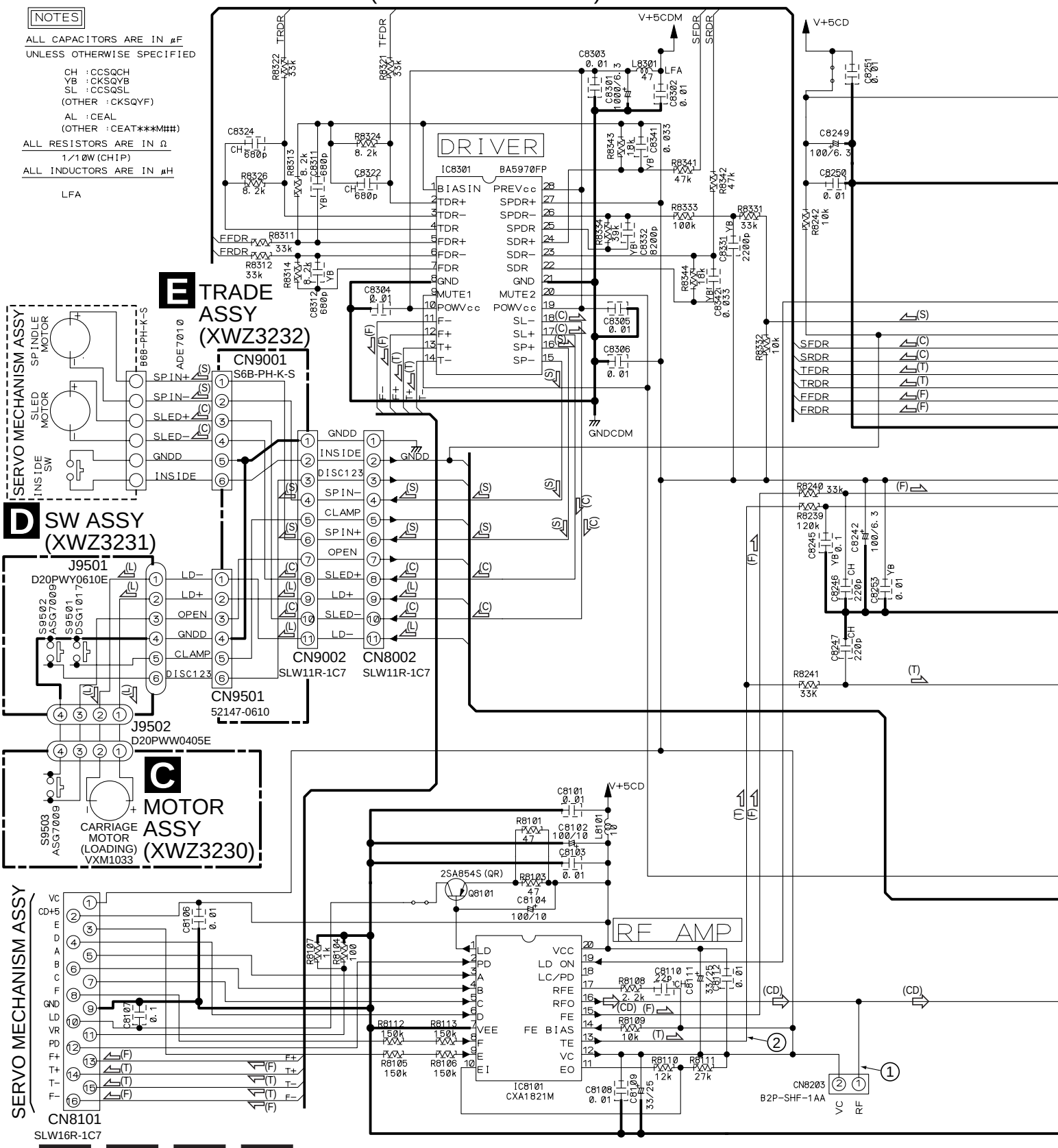
Notes

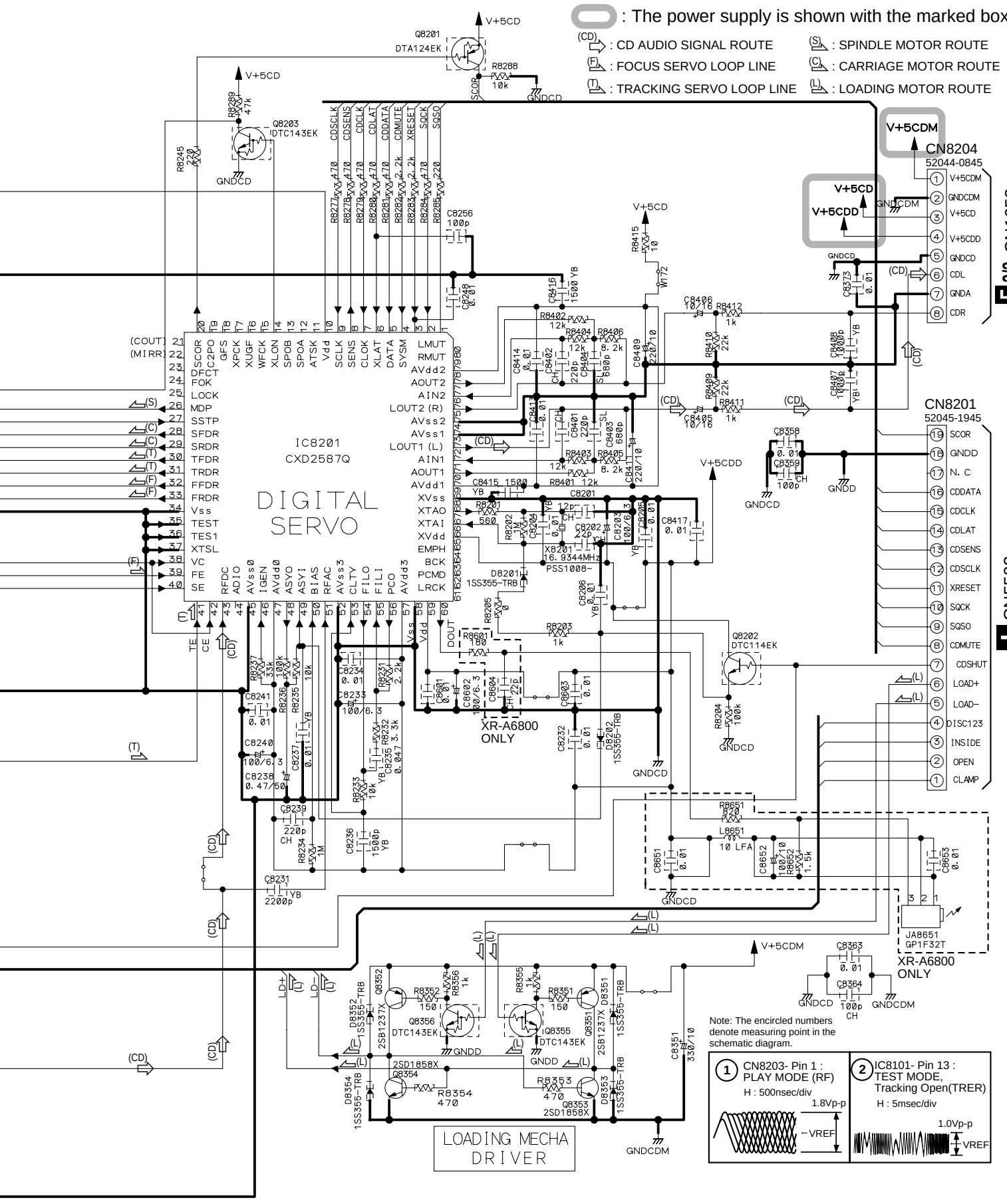
1. RESISTORS
   Indicated in Ω, 1/10W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P:PF.
3. DIODES
   No mark diode is 1SS254.



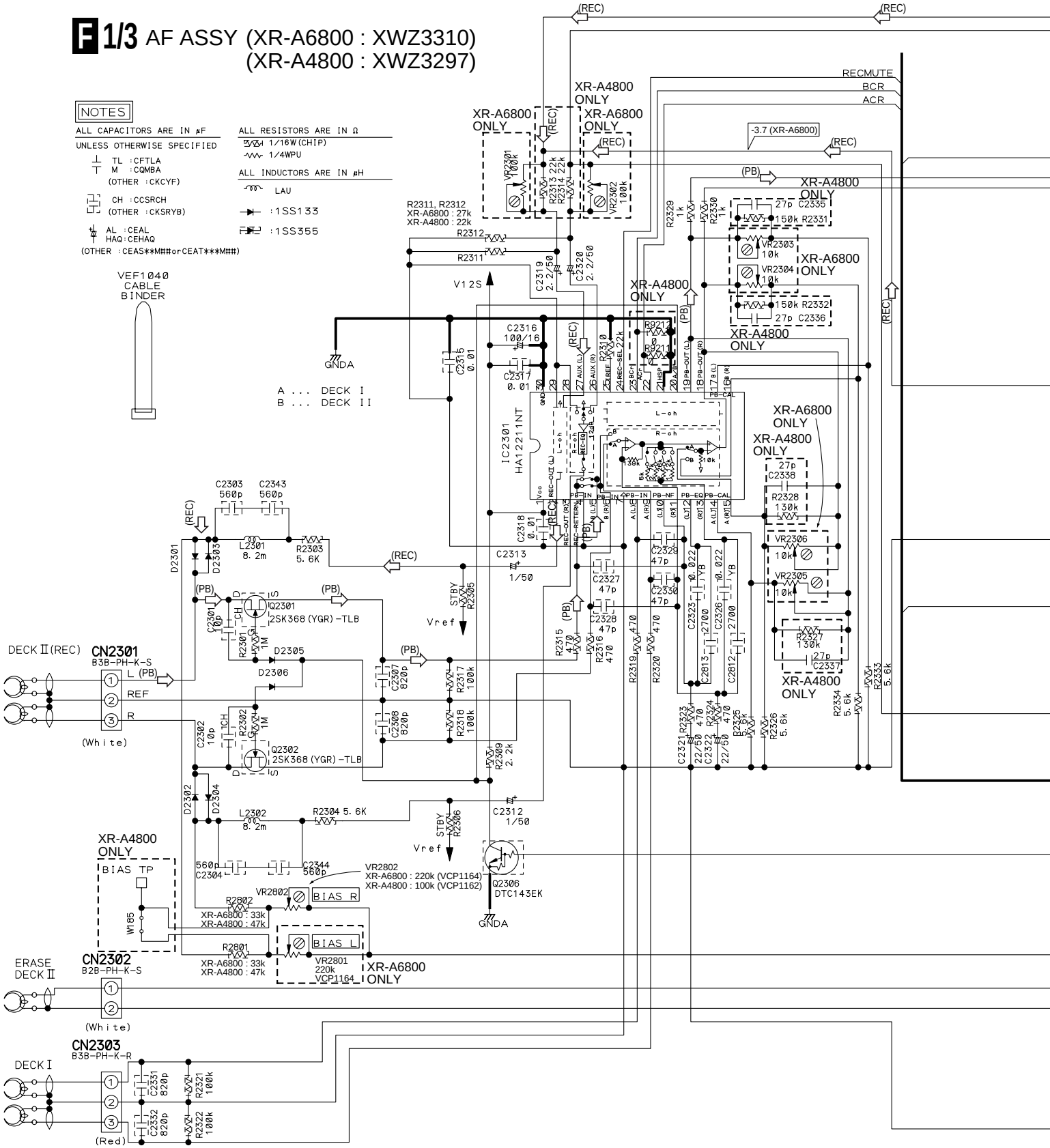
3.3 CD, MOTOR, SW and TRADE ASSYS

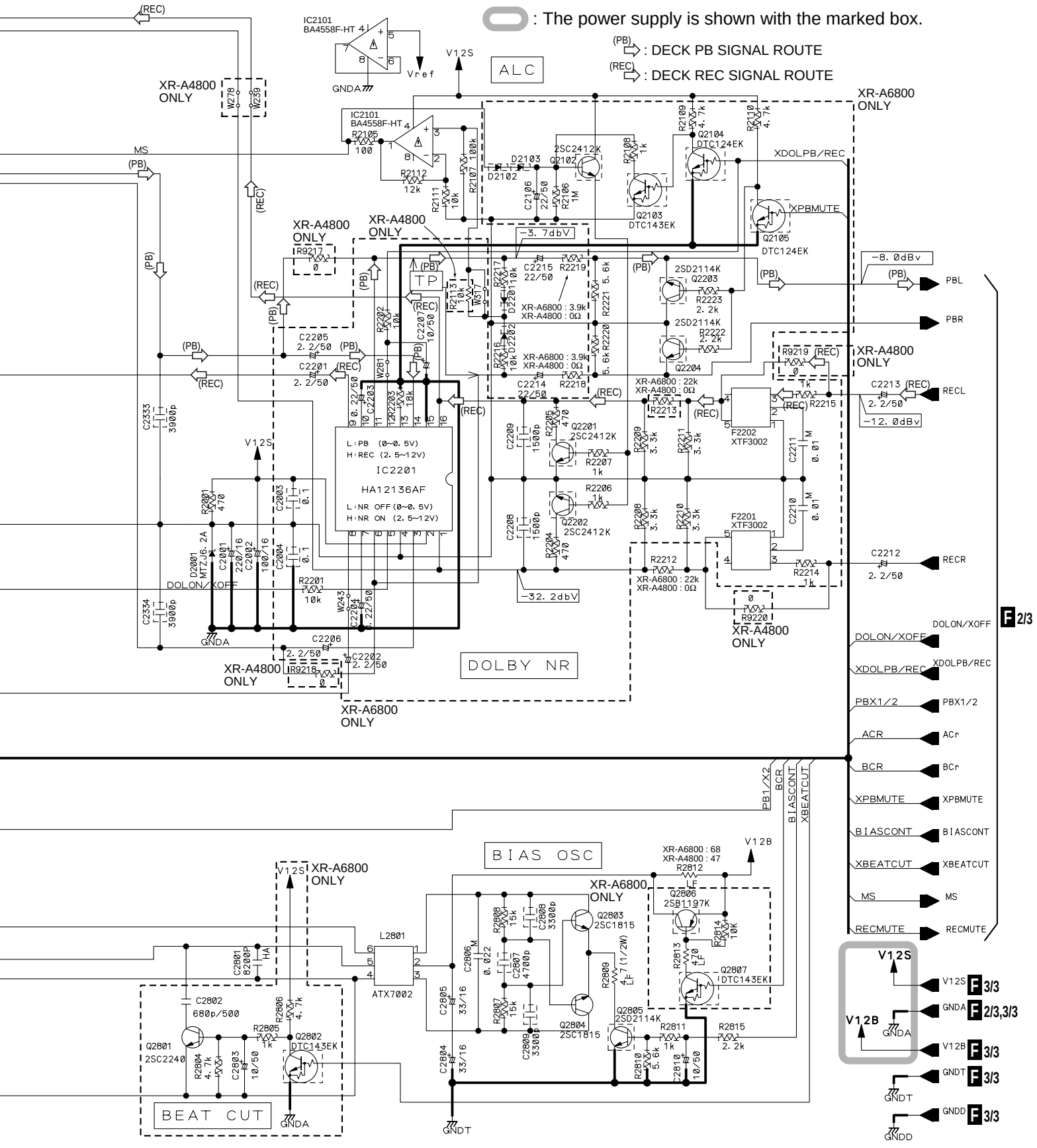
B CD ASSY (XR-A6800 : XWZ3233)
(XR-A4800 : XWZ3229)



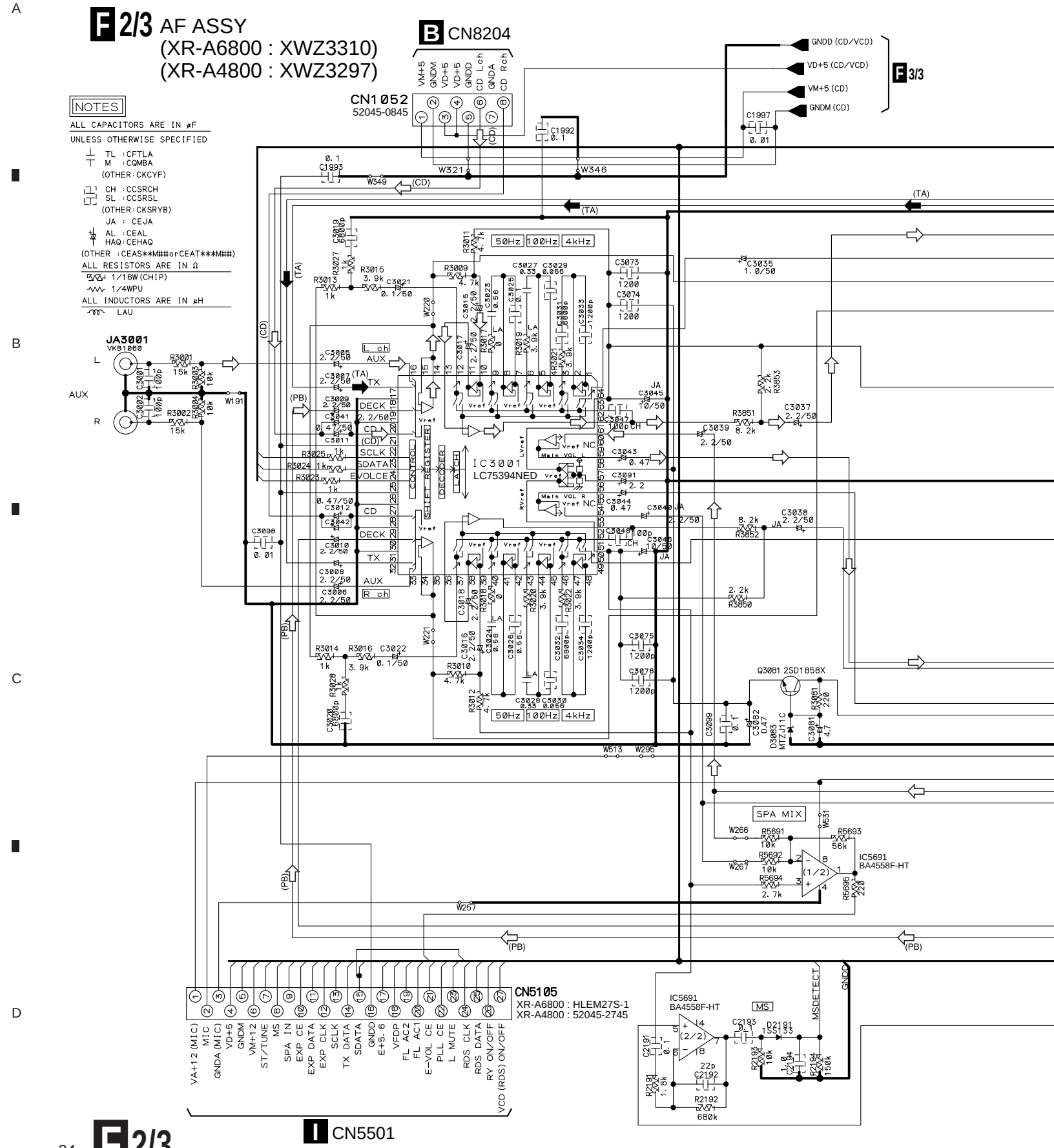

: The power supply is shown with the marked box.
(CD) : CD AUDIO SIGNAL ROUTE
(F) : FOCUS SERVO LOOP LINE
(T) : TRACKING SERVO LOOP LINE
(S) : SPINDLE MOTOR ROUTE
(C) : CARRIAGE MOTOR ROUTE
(L) : LOADING MOTOR ROUTE
IC8201
CXD2587Q
DIGITAL SERVO
CN8204
52044-0845
CN8201
52045-1945
F 2/3 CN1052
I CN5502
XR-A6800 ONLY
XR-A6800 ONLY
LOADING MECHA DRIVER
Note: The encircled numbers denote measuring point in the schematic diagram.
1 CN8203- Pin 1 : PLAY MODE (RF)
H : 500nsec/div
1.8Vp-p
VREF
2 IC8101- Pin 13 : TEST MODE, Tracking Open(TRER)
H : 5msec/div
1.0Vp-p
VREF

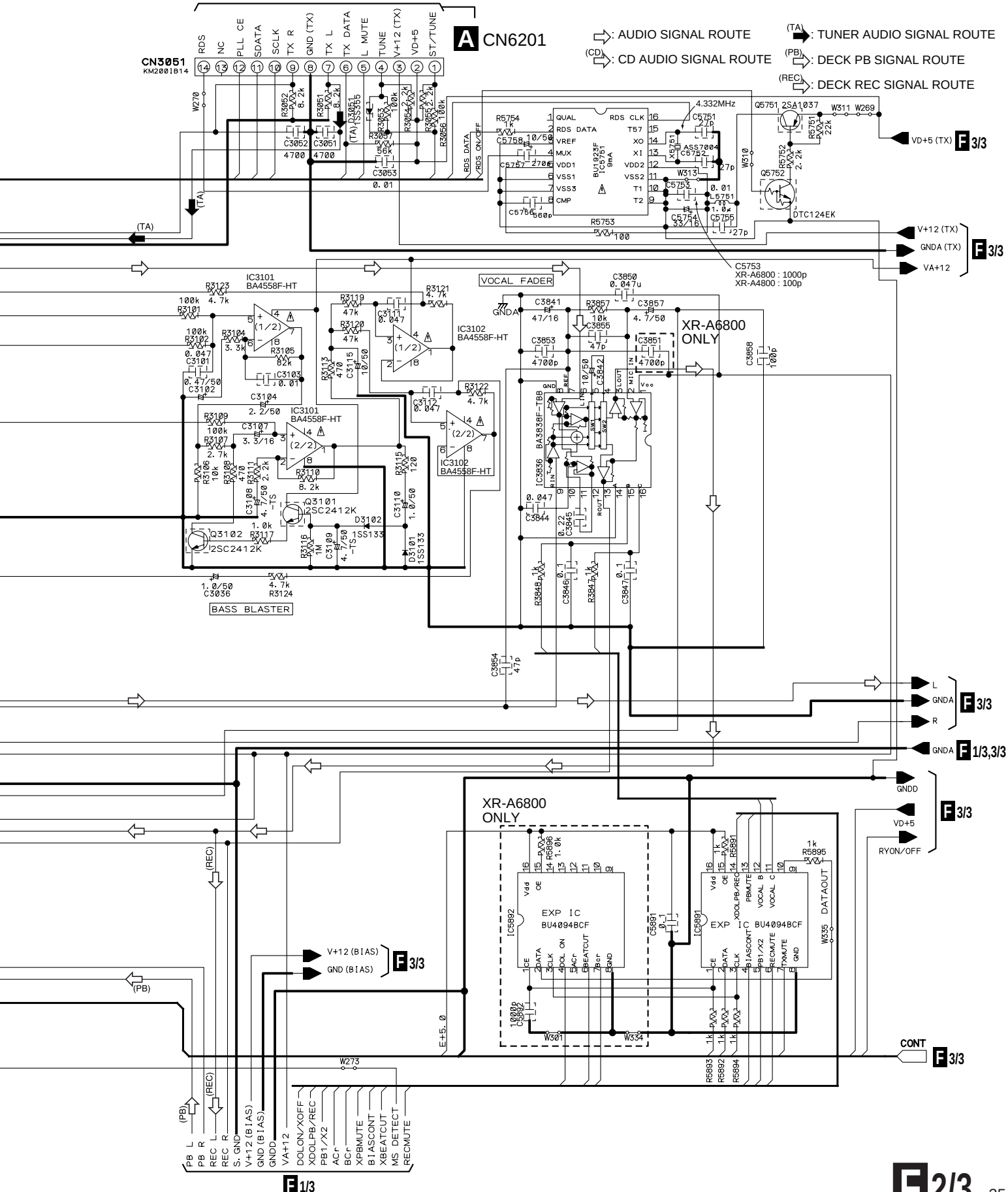
3.4 AF ASSY (1/3)


F 1/3 AF ASSY (XR-A6800 : XWZ3310)
(XR-A4800 : XWZ3297)
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
TL :CFTLA
M :CQMBA
(OTHER :CKCYF)
CH :CCSRCH
(OTHER :CKSRYB)
AL :CEAL
HAQ:CEHAQ
(OTHER :CEAS**M##orCEAT***M##)
ALL RESISTORS ARE IN Ω
1/16W(CHIP)
1/4WPU
ALL INDUCTORS ARE IN μH
LAU
:1SS133
:1SS355
VEF1040
CABLE
BINDER
A ... DECK I
B ... DECK II
XR-A6800 ONLY
XR-A4800 ONLY
RECMUTE
BCR
ACR
-3.7 (XR-A6800)
R2311, R2312
XR-A6800 : 27k
XR-A4800 : 22k
IC2301
HA12211NT
DECK II (REC)
CN2301
B3B-PH-K-S
L (PB)
REF
R
(White)
CN2302
B2B-PH-K-S
ERASE
DECK II
(White)
CN2303
B3B-PH-K-R
DECK I
(Red)
BIAS TP
BIAS R
BIAS L
VR2802
XR-A6800 : 220k (VCP1164)
XR-A4800 : 100k (VCP1162)
VR2801
220k
VCP1164
Q2306
DTC143EK
Q2301
2SK368 (YGR) -TLB
Q2302
2SK368 (YGR) -TLB
GNDA
V12S
Vref
STBY

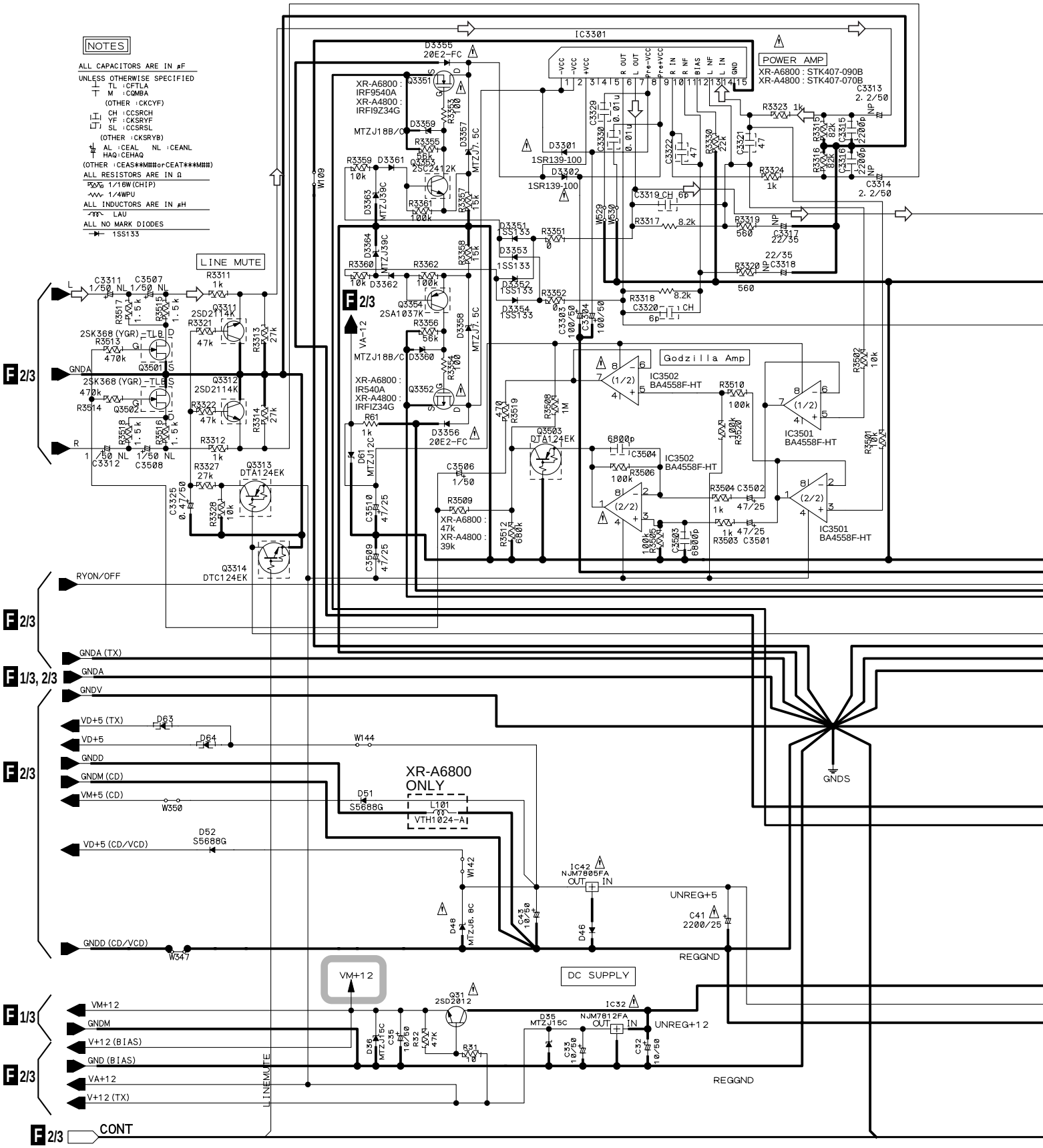

: The power supply is shown with the marked box.
(PB) : DECK PB SIGNAL ROUTE
(REC) : DECK REC SIGNAL ROUTE
ALC
DOLBY NR
BIAS OSC
BEAT CUT
XR-A4800 ONLY
XR-A6800 ONLY
IC2101 BA4558F-HT
IC2201 HA12136AF
L:PB (0~0.5V) H:REC (2.5~12V)
L:NR OFF(0~0.5V) H:NR ON (2.5~12V)
V12S
V12B
GNDA
GNDT
GNDD
XDOLPB/REC
XPBMUTE
DOLON/XOFF
PBX1/2
ACR
BCR
BIASCONT
XBEATCUT
MS
RECMUTE
PB1/X2
BIASCONT
XBEATCUT
PBL
PBR
RECL
RECR
-8. 0dBv
-12. 0dBv
-3. 7dbV
-32. 2dbV
F2201 XTF3002
F2202 XTF3002
ATX7002
L2801
Q2101 2SC2412K
Q2102 2SC2412K
Q2103 DTC143EK
Q2104 DTC124EK
Q2105 DTC124EK
Q2201 2SC2412K
Q2202 2SC2412K
Q2203 2SD2114K
Q2204 2SD2114K
Q2801 2SC2240
Q2802 DTC143EK
Q2803 2SC1815
Q2804 2SC1815
Q2805 2SD2114K
Q2806 2SB1197K
Q2807 DTC143EK
D2001 MTZJ6. 2A
D2101
D2102
TP
F 2/3
F 3/3
F 2/3,3/3
F 3/3
F 3/3
F 3/3

3.5 AF ASSY (2/3)


F 2/3 AF ASSY
(XR-A6800 : XWZ3310)
(XR-A4800 : XWZ3297)
B CN8204
CN1052
52045-0845
NOTES
ALL CAPACITORS ARE IN µF
UNLESS OTHERWISE SPECIFIED
TL :CFTLA
M :CQMBA
(OTHER:CKCYF)
CH :CCSRCH
SL :CCSRSL
(OTHER:CKSRYB)
JA : CEJA
AL :CEAL
HAQ:CEHAQ
(OTHER :CEAS**M##orCEAT***M##)
ALL RESISTORS ARE IN Ω
1/16W(CHIP)
1/4WPU
ALL INDUCTORS ARE IN µH
LAU
JA3001
VKB1060
IC3001
LC75394NED
CONTROL
SHIFT REGISTER
DECODER
LATCH
50Hz 100Hz 4kHz
SPA MIX
IC5691
BA4558F-HT
Q3081 2SD1858X
CN5105
XR-A6800 : HLEM27S-1
XR-A4800 : 52045-2745
I CN5501
GNDD (CD/VCD)
VD+5 (CD/VCD)
VM+5 (CD)
GNDM (CD)
F 3/3
VA+12 (MIC)
MIC
GNDA (MIC)
VD+5
GNDM
VM+12
ST/TUNE
MS
SPA IN
EXP CE
EXP DATA
EXP CLK
SCLK
TX DATA
SDATA
GNDD
E+5.6
VFDP
FL AC2
FL AC1
E-VOL CE
PLL CE
L MUTE
RDS CLK
RDS DATA
RY ON/OFF
VCD (RDS) ON/OFF


A CN6201
CN3051
KM2001B14
RDS
NC
PLL CE
SDATA
SCLK
TX R
GND (TX)
TX L
TX DATA
L MUTE
TUNE
V+12 (TX)
VD+5
ST/TUNE
: AUDIO SIGNAL ROUTE
: CD AUDIO SIGNAL ROUTE
: TUNER AUDIO SIGNAL ROUTE
: DECK PB SIGNAL ROUTE
: DECK REC SIGNAL ROUTE
4.332MHz
BU1923F
IC5751
Q5751 2SA1037
Q5752
DTC124EK
VD+5 (TX) F 3/3
V+12 (TX)
GNDA (TX)
VA+12
C5753
XR-A6800 : 1000p
XR-A4800 : 100p
VOCAL FADER
IC3101
BA4558F-HT
IC3102
BA4558F-HT
XR-A6800
ONLY
BA3838F-TBB
BASS BLASTER
L
GNDA
R
GNDA F 1/3,3/3
GNDD
VD+5
RYON/OFF
EXP IC
BU4094BCF
IC5892
IC5891
W535 DATAOUT
V+12 (BIAS)
GND (BIAS)
CONT
W273
PB L
PB R
REC L
REC R
S. GND
V+12 (BIAS)
GND (BIAS)
GNDD
VA+12
DOLON/XOFF
XDOLPB/REC
PB1/X2
ACr
BCr
XPBMUTE
BIASCONT
XBEATCUT
MS DETECT
RECMUTE
F 1/3

3.6 AF (3/3) and SECONDARY ASSYS

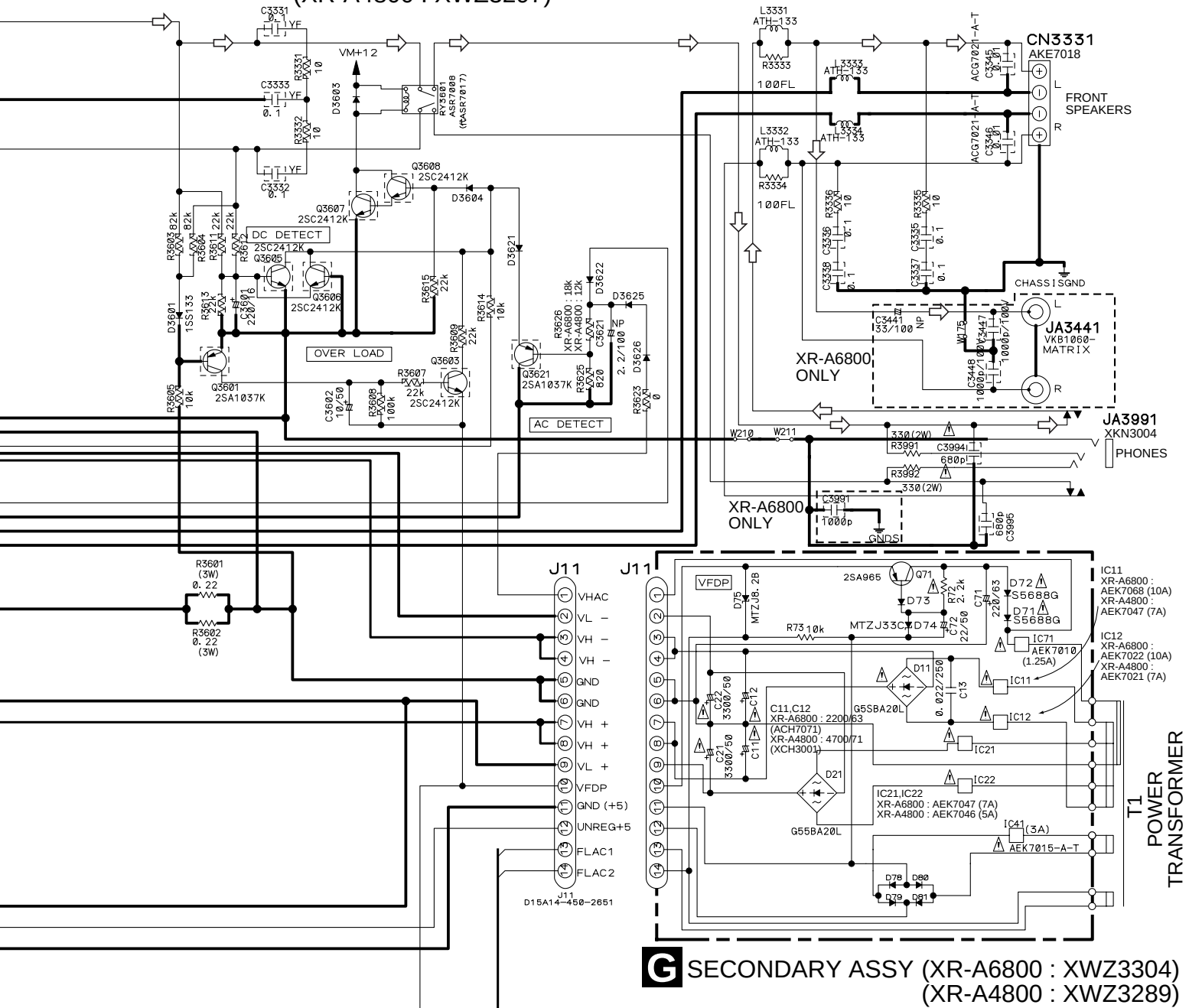


: The power supply is shown with the marked box.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491003 MFD, BY LITTELFUSE INK. FOR IC41 (AEK7015).	CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010F MFD, BY LITTELFUSE INK. FOR IC11 (AEK7068 : XR-A6800).
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 4911.25 MFD, BY LITTELFUSE INK. FOR IC71 (AEK7010).	CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INK. FOR IC12 (AEK7022 : XR-A6800).

⇨: AUDIO SIGNAL ROUTE

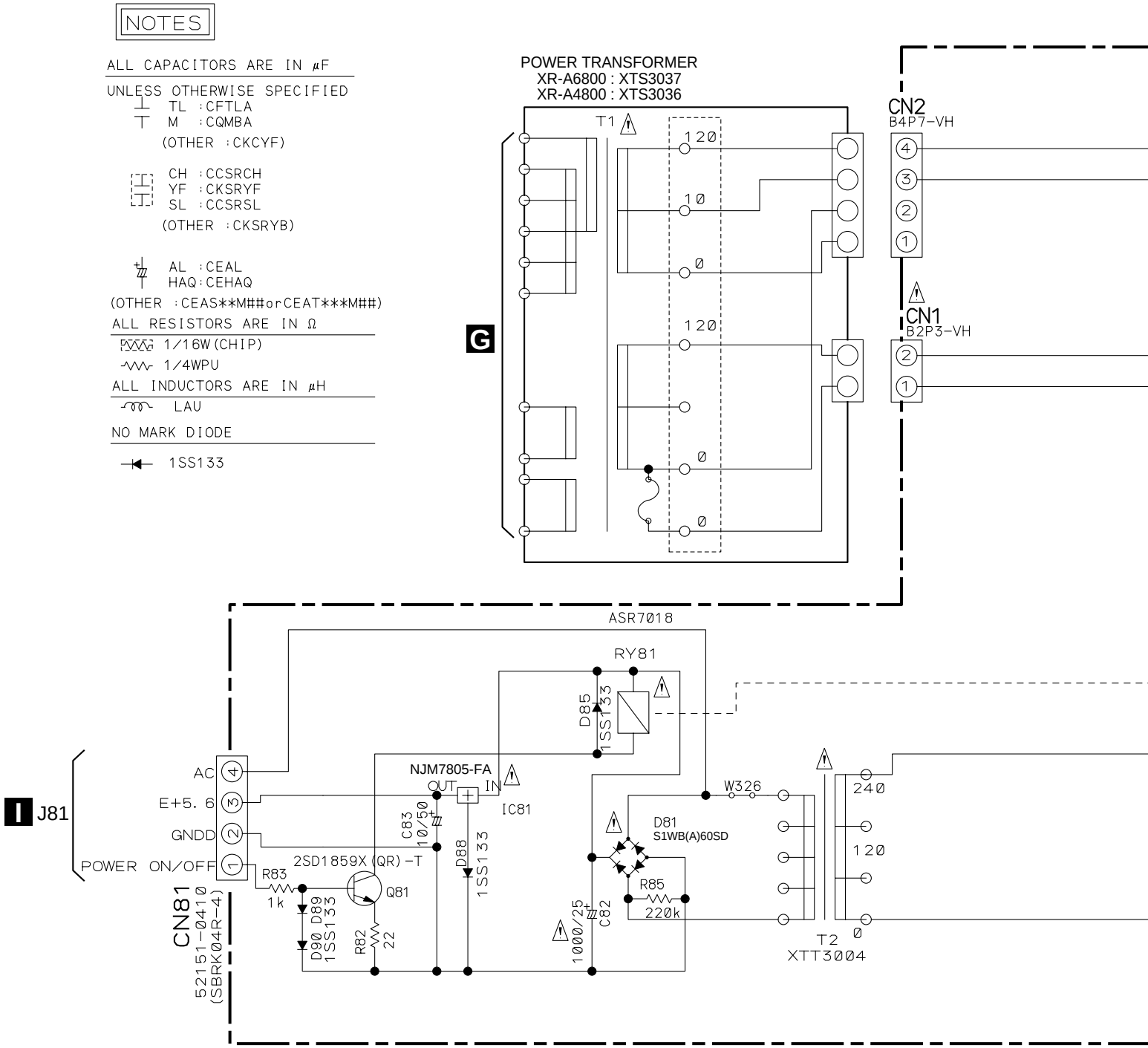
F 3/3 AF ASSY
(XR-A6800 : XWZ3310)
(XR-A4800 : XWZ3297)



G SECONDARY ASSY (XR-A6800 : XWZ3304)
(XR-A4800 : XWZ3289)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INK. FOR IC21 and IC22 (AEK7047 : XR-A6800).	CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INK. FOR IC12 (AEK7021 : XR-A4800).
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INK. FOR IC11 (AEK7047 : XR-A4800).	CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY LITTELFUSE INK. FOR IC21 and IC22 (AEK7046 : XR-A4800).

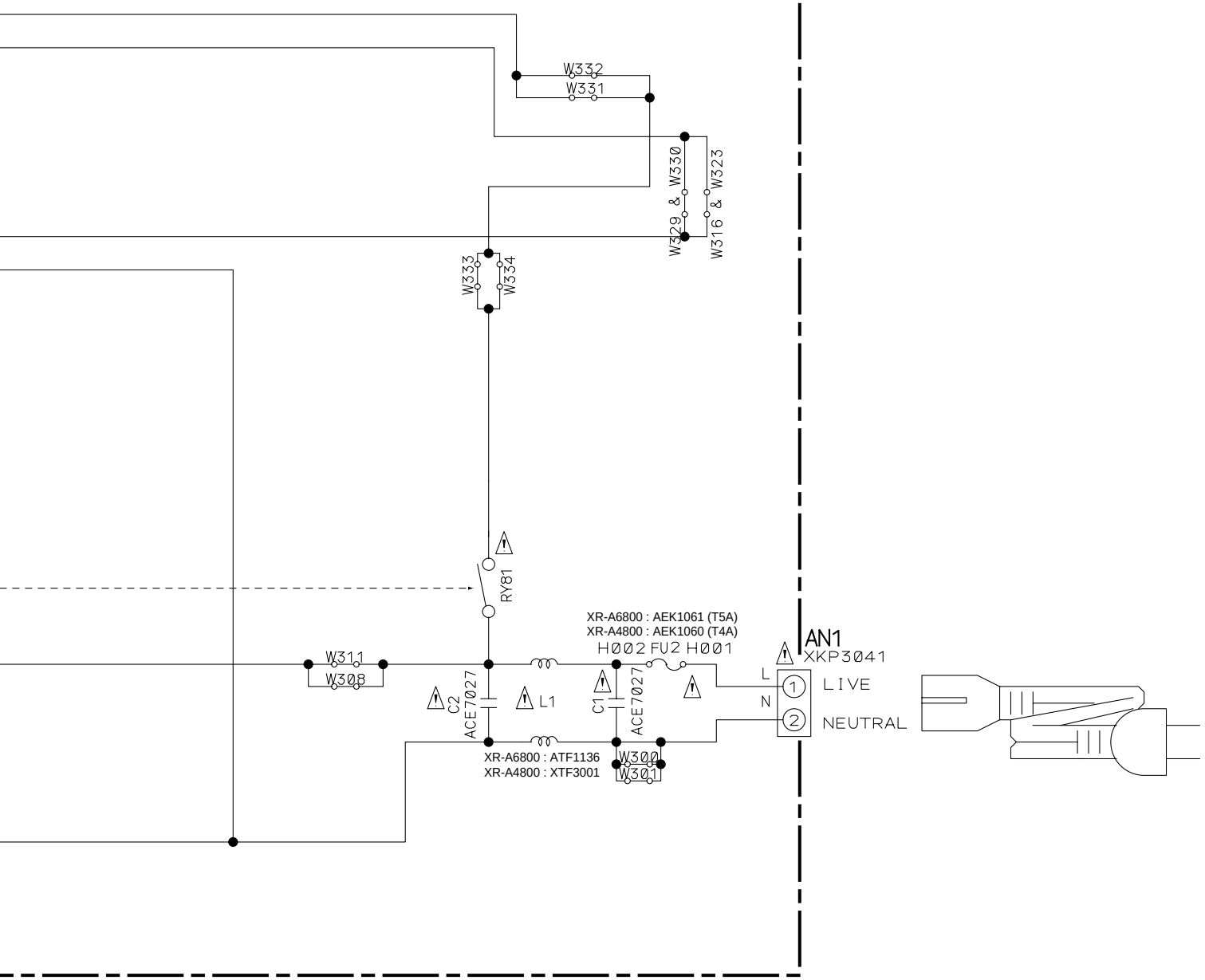
3.7 PRIMARY ASSY



• NOTE FOR FUSE REPLACEMENT

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

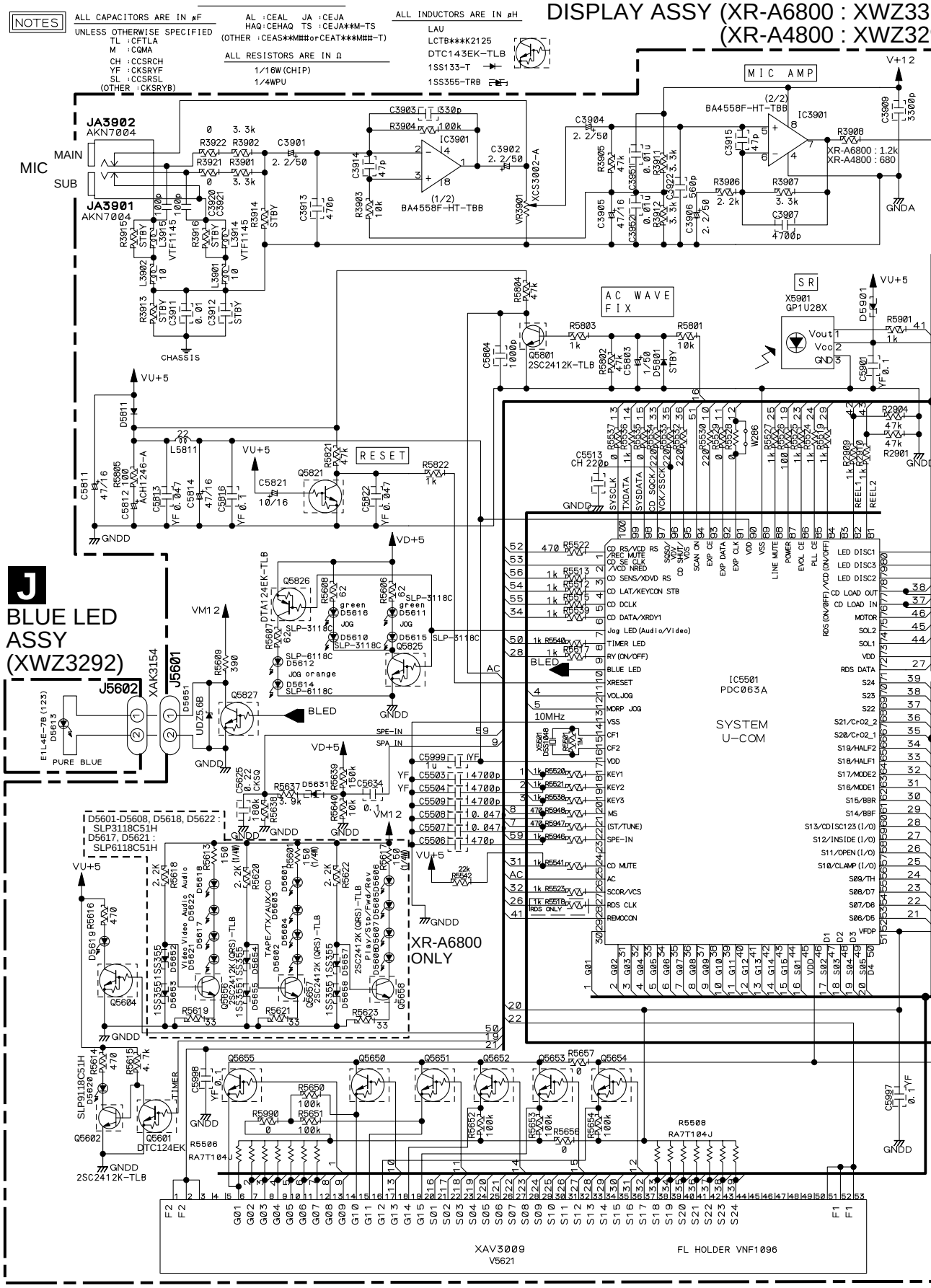
H PRIMARY ASSY
(XR-A6800 : XWZ3312)
(XR-A4800 : XWZ3299)



3.8 DISPLAY and BLUE LED ASSYS

I

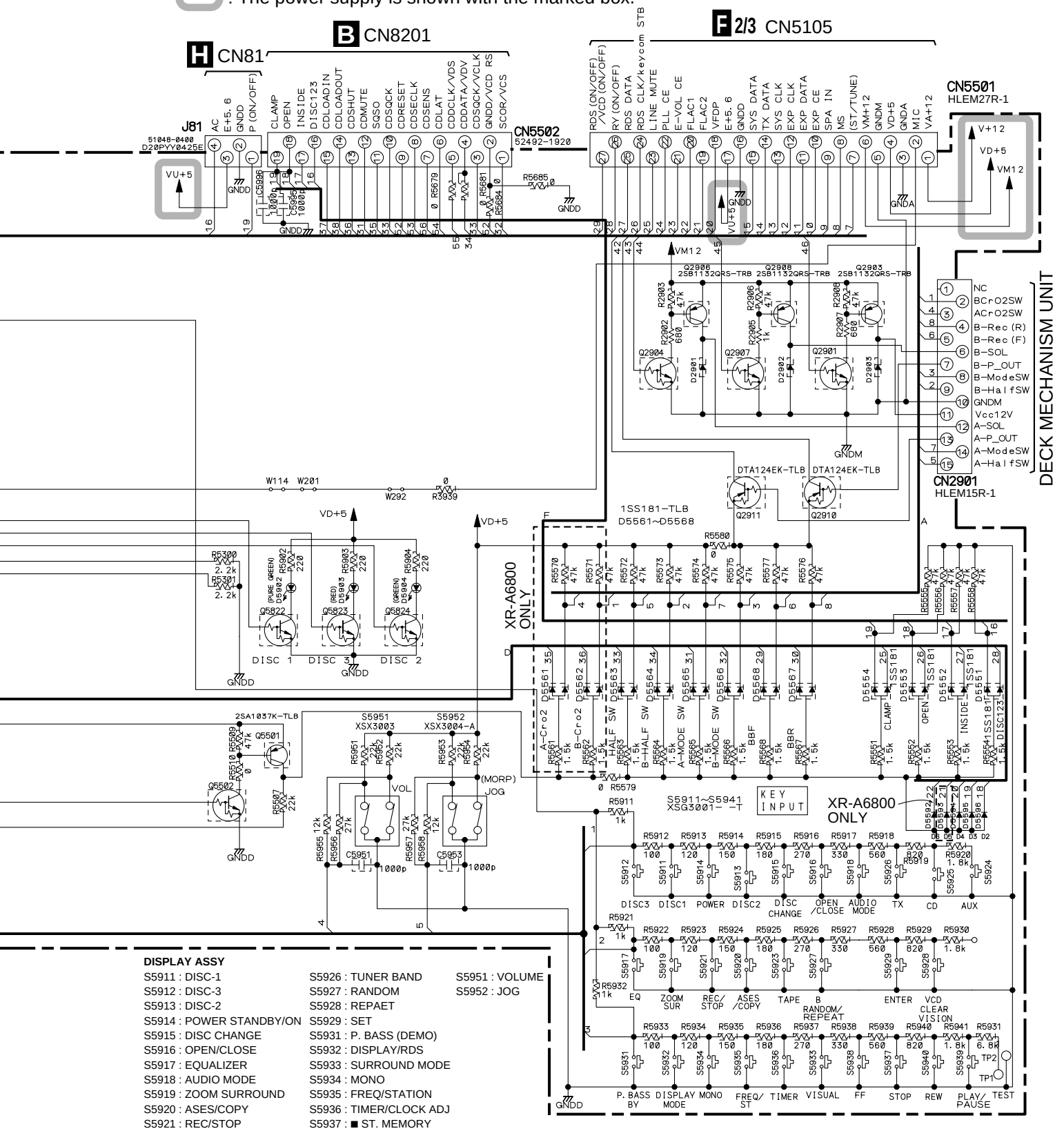
DISPLAY ASSY (XR-A6800 : XWZ3311)
(XR-A4800 : XWZ3298)



J

BLUE LED ASSY (XWZ3292)

: The power supply is shown with the marked box.



DISPLAY ASSY

S5911 : DISC-1	S5926 : TUNER BAND	S5951 : VOLUME
S5912 : DISC-3	S5927 : RANDOM	S5952 : JOG
S5913 : DISC-2	S5928 : REPAET	
S5914 : POWER STANDBY/ON	S5929 : SET	
S5915 : DISC CHANGE	S5931 : P. BASS (DEMO)	
S5916 : OPEN/CLOSE	S5932 : DISPLAY/RDS	
S5917 : EQUALIZER	S5933 : SURROUND MODE	
S5918 : AUDIO MODE	S5934 : MONO	
S5919 : ZOOM SURROUND	S5935 : FREQ/STATION	
S5920 : ASES/COPY	S5936 : TIMER/CLOCK ADJ	
S5921 : REC/STOP	S5937 : ■ ST. MEMORY	
S5923 : TAPE I / II	S5938 : ▶▶I / ▶▶ • +	
S5924 : AUX	S5939 : ◀ ▶ / ❚❚	
S5925 : CD	S5940 : – • I◀◀ / ◀◀	

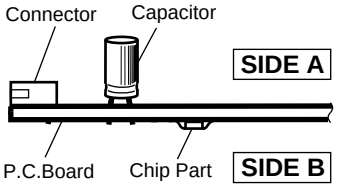
4. PCB CONNECTION DIAGRAM

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
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	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.

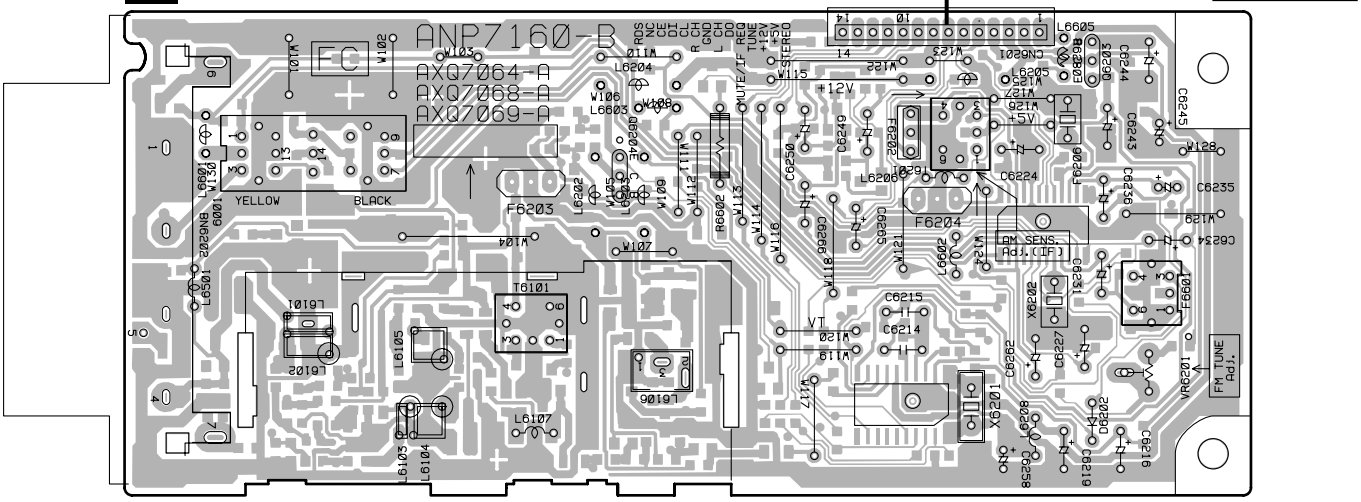


4.1 FM/AM TUNER MODULE

A FM/AM TUNER MODULE

F CN3051

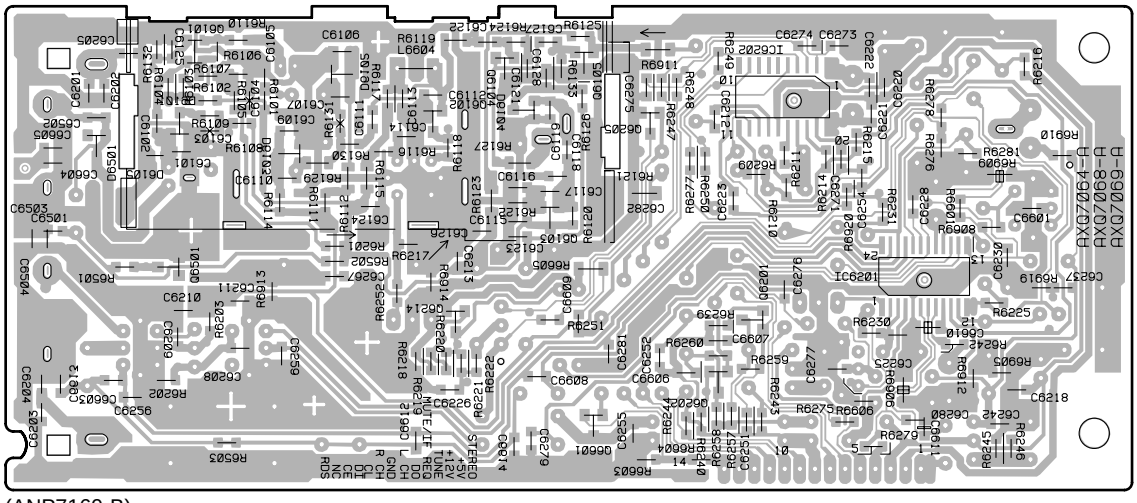
SIDE A



(ANP7160-B)

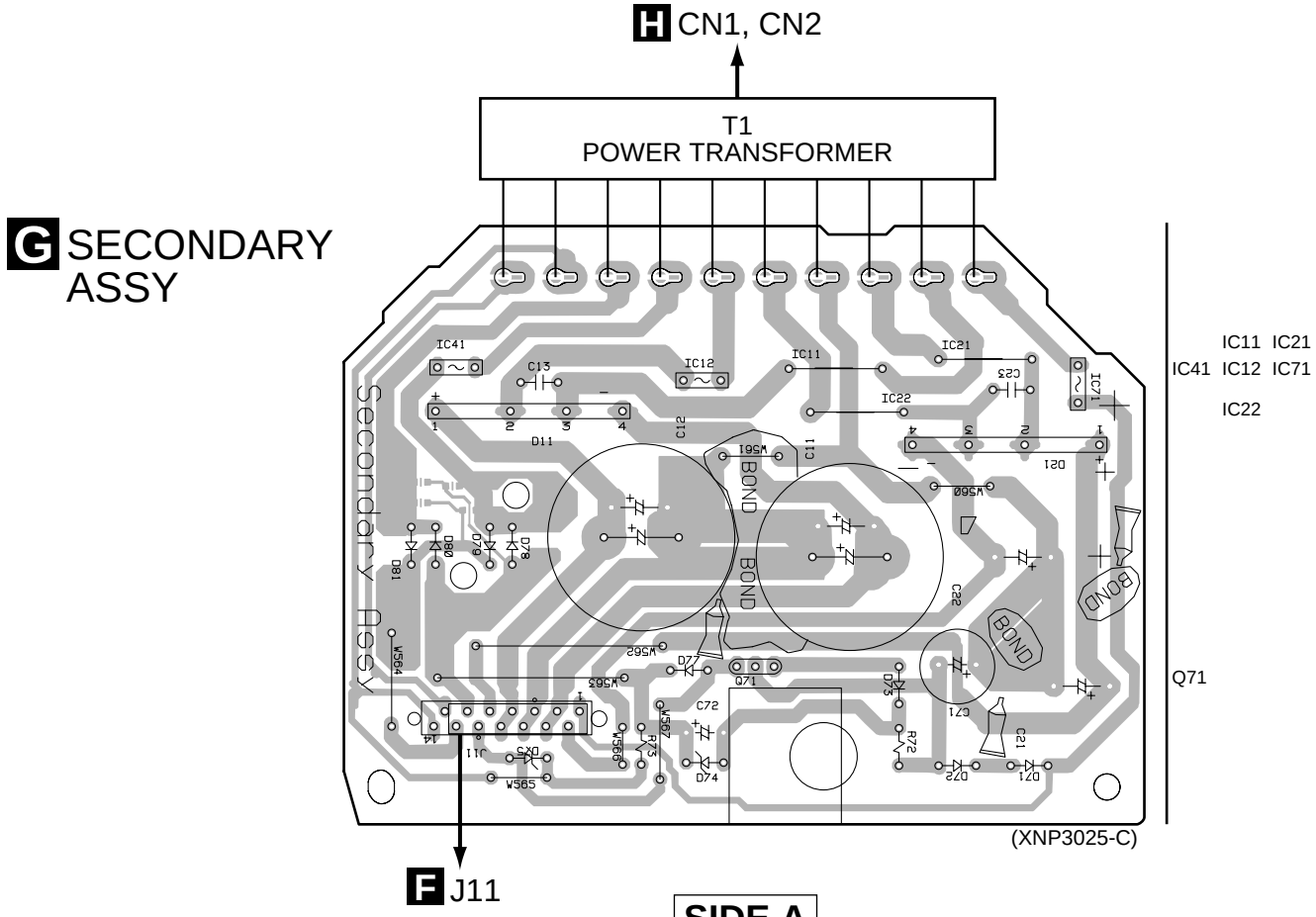
A FM/AM TUNER MODULE

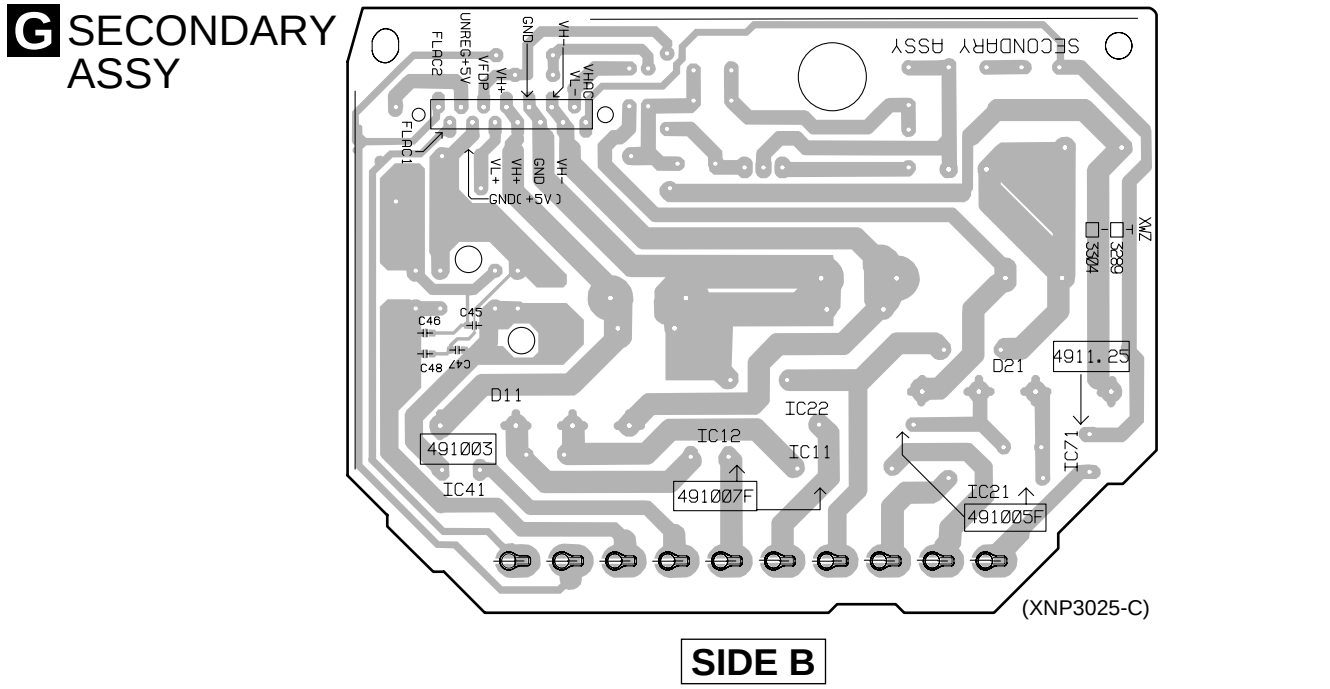
SIDE B



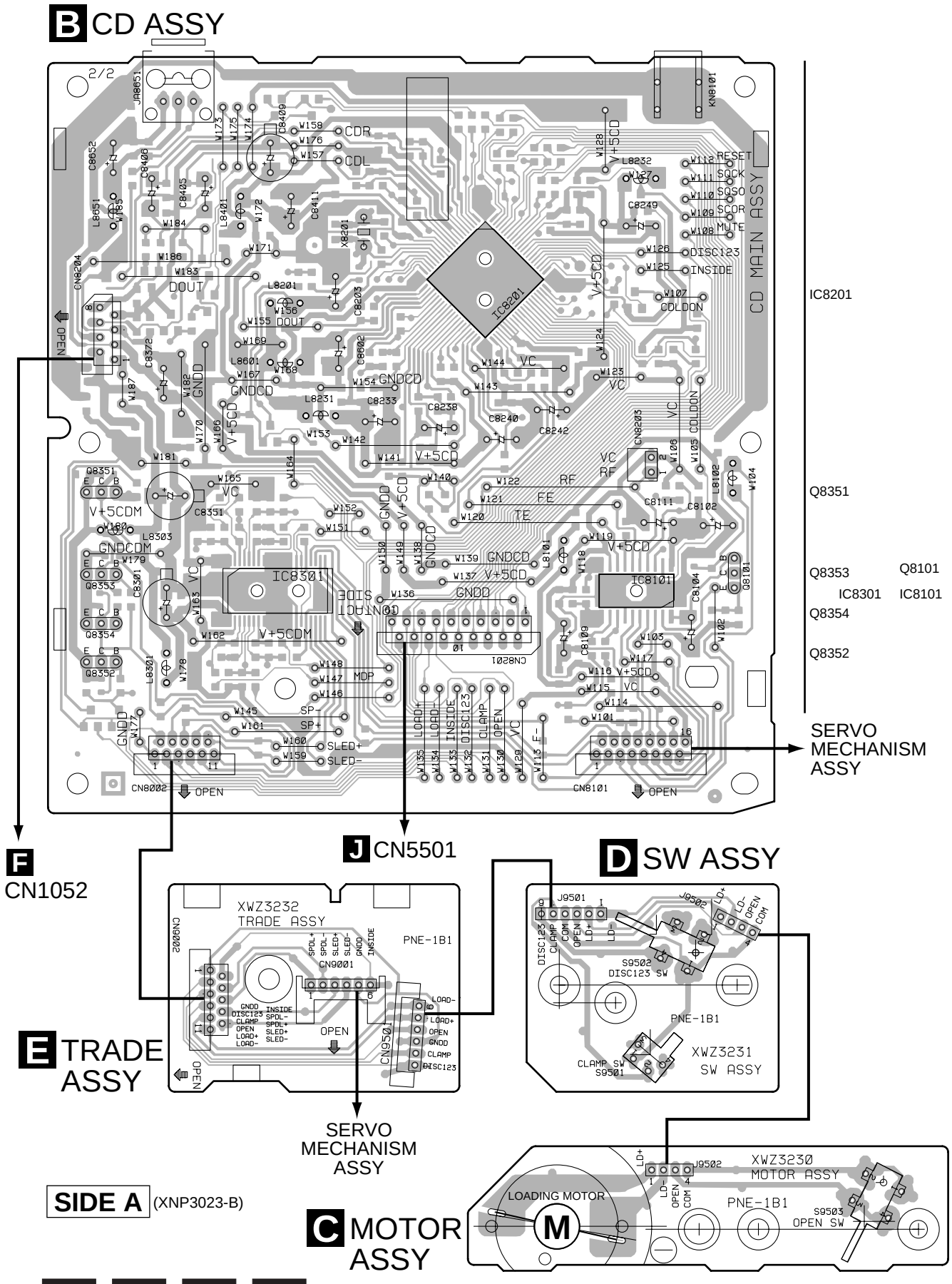
(ANP7160-B)

4.2 SECONDARY ASSY

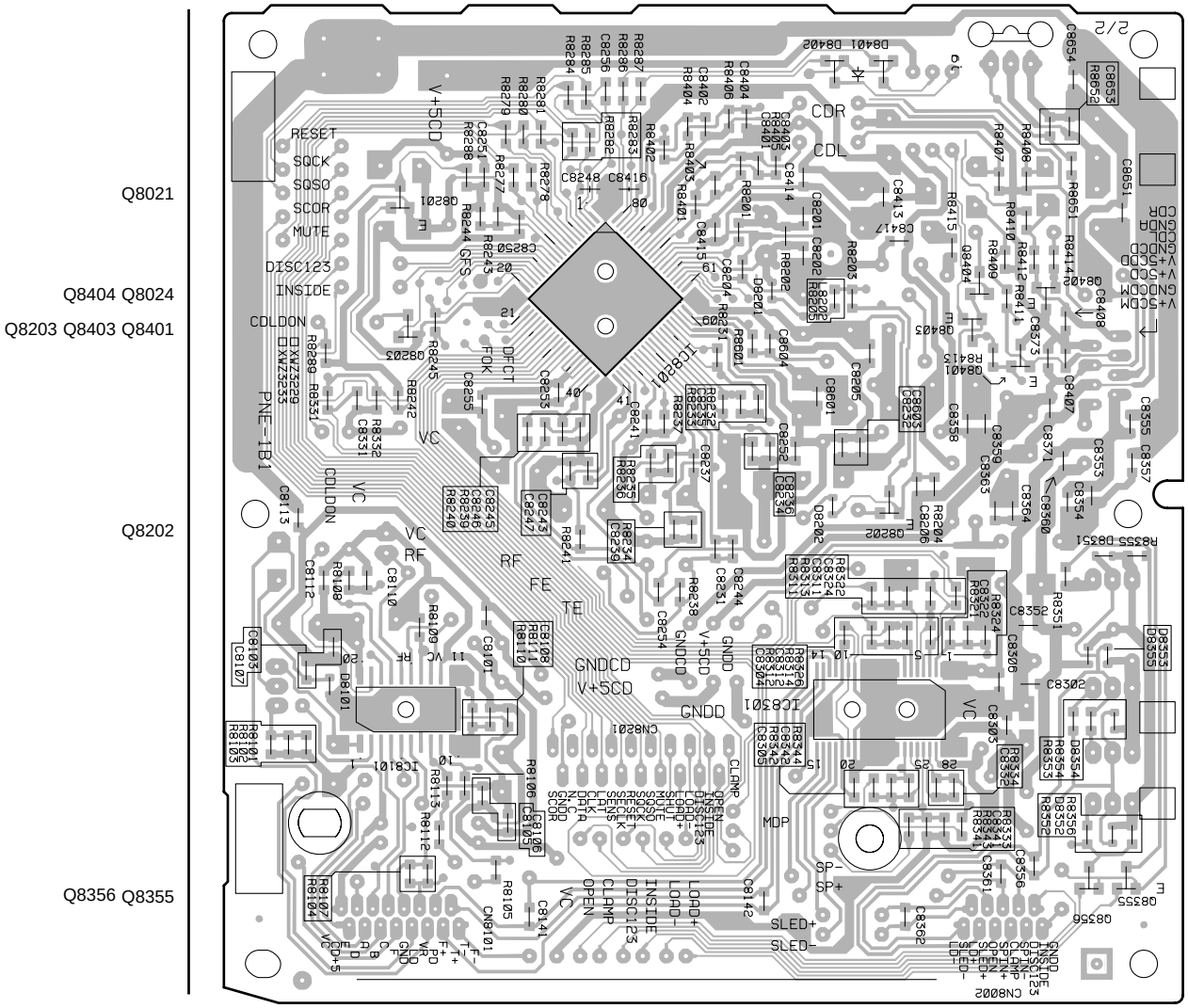




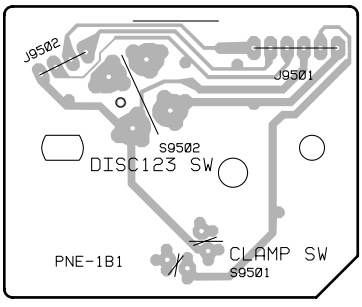
4.3 CD, MOTOR, SW and TRADE ASSYS



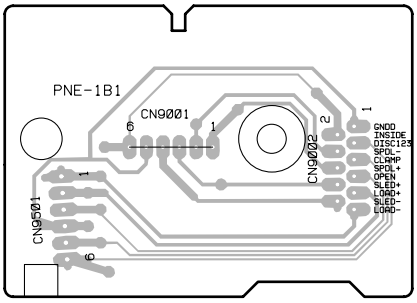
B CD ASSY



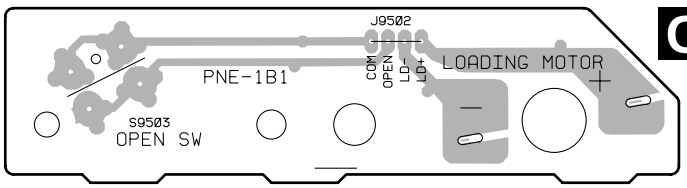
D SW ASSY



E TRADE ASSY

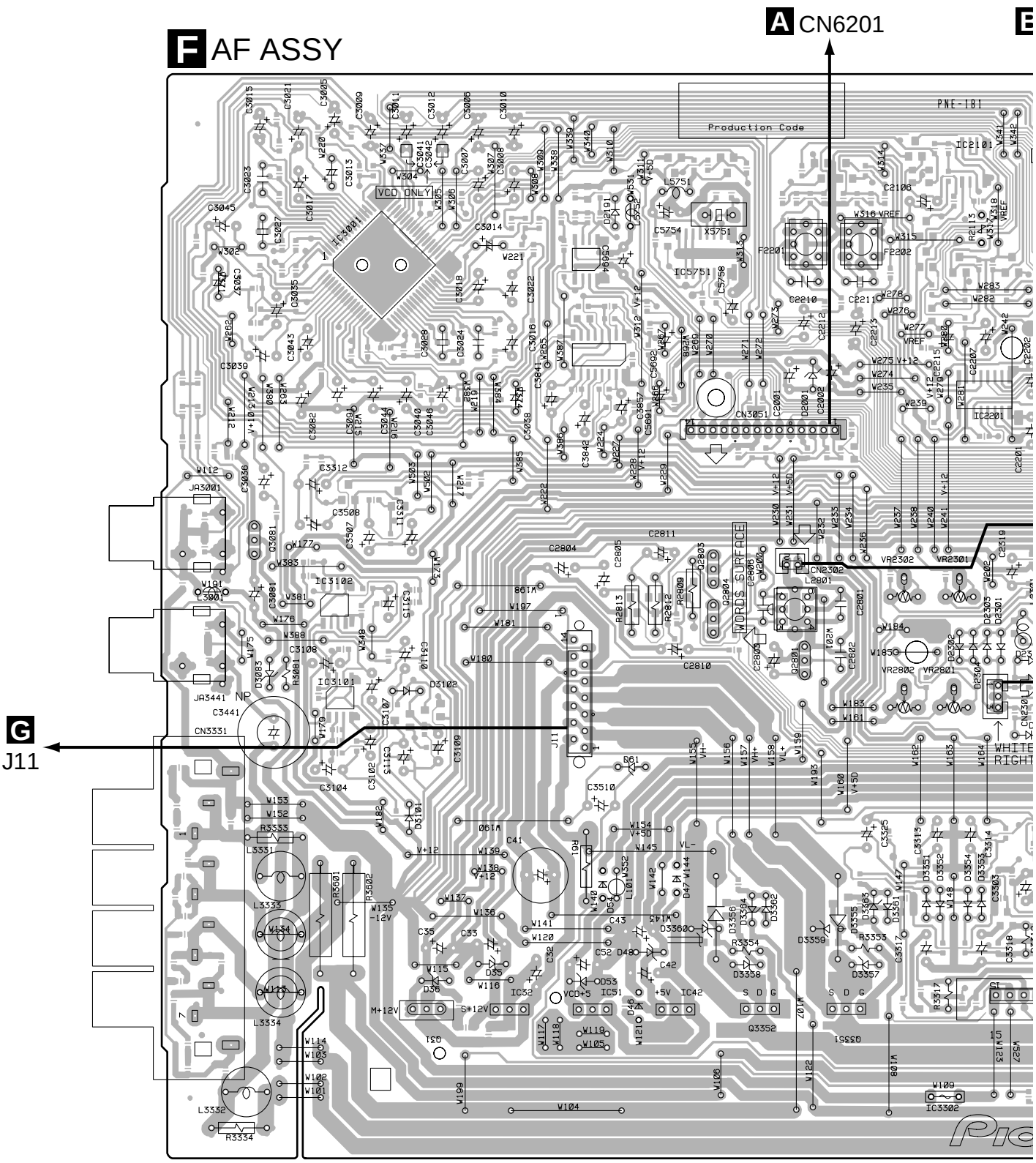


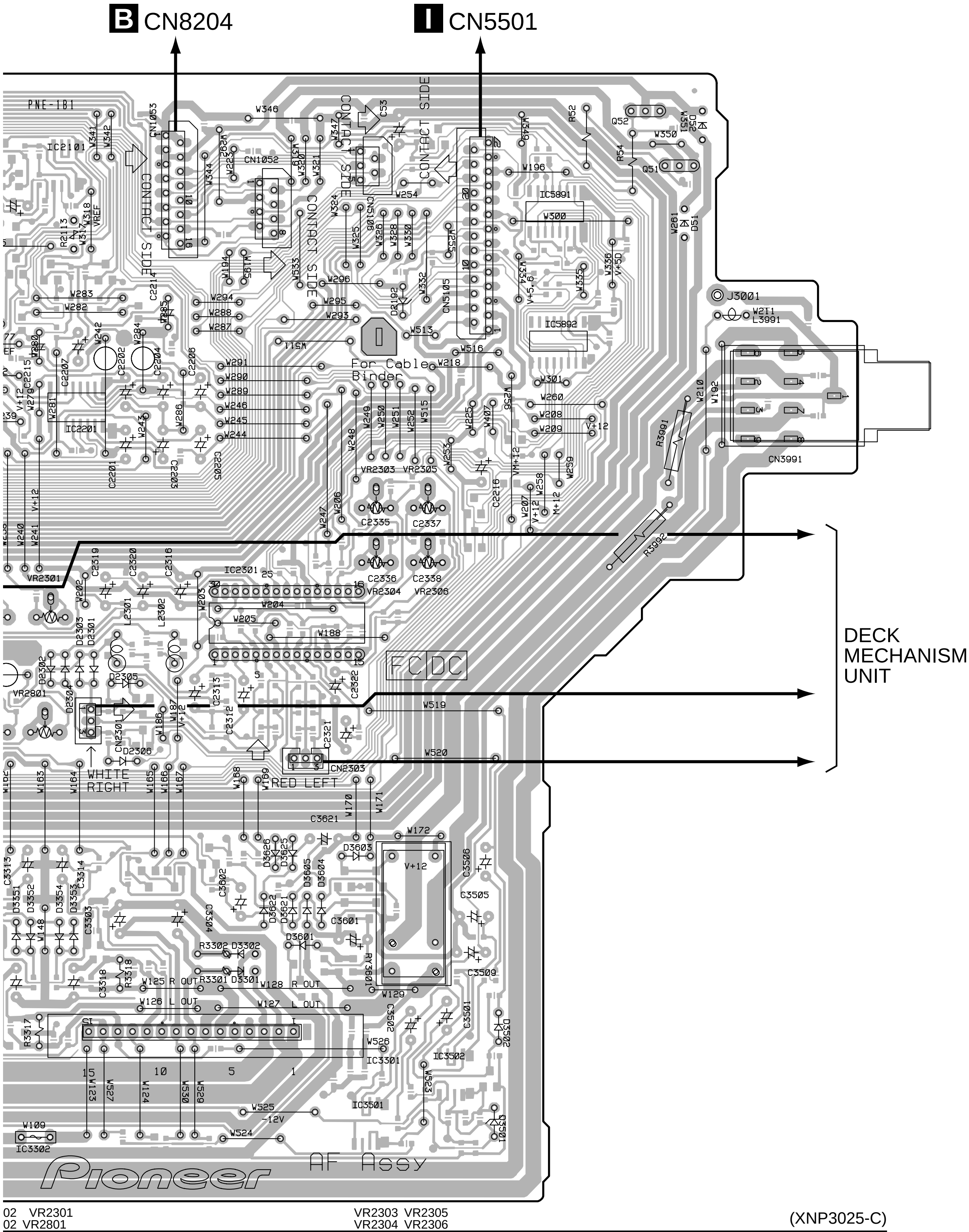
C MOTOR ASSY



SIDE B (XNP3023-B)

4.4 AF ASSY


F AF ASSY
A CN6201
G J11
Production Code
PNE-1B1
VCD ONLY
WORDS SURFACE
VR2302 VR2301
VR2802 VR2801
Q3081
Q2803
Q2804
Q2801
Q31
IC32
IC51
IC42
Q3352
Q3351
IC3302



02 VR2301
02 VR2801
VR2303 VR2305
VR2304 VR2306
(XNP3025-C)

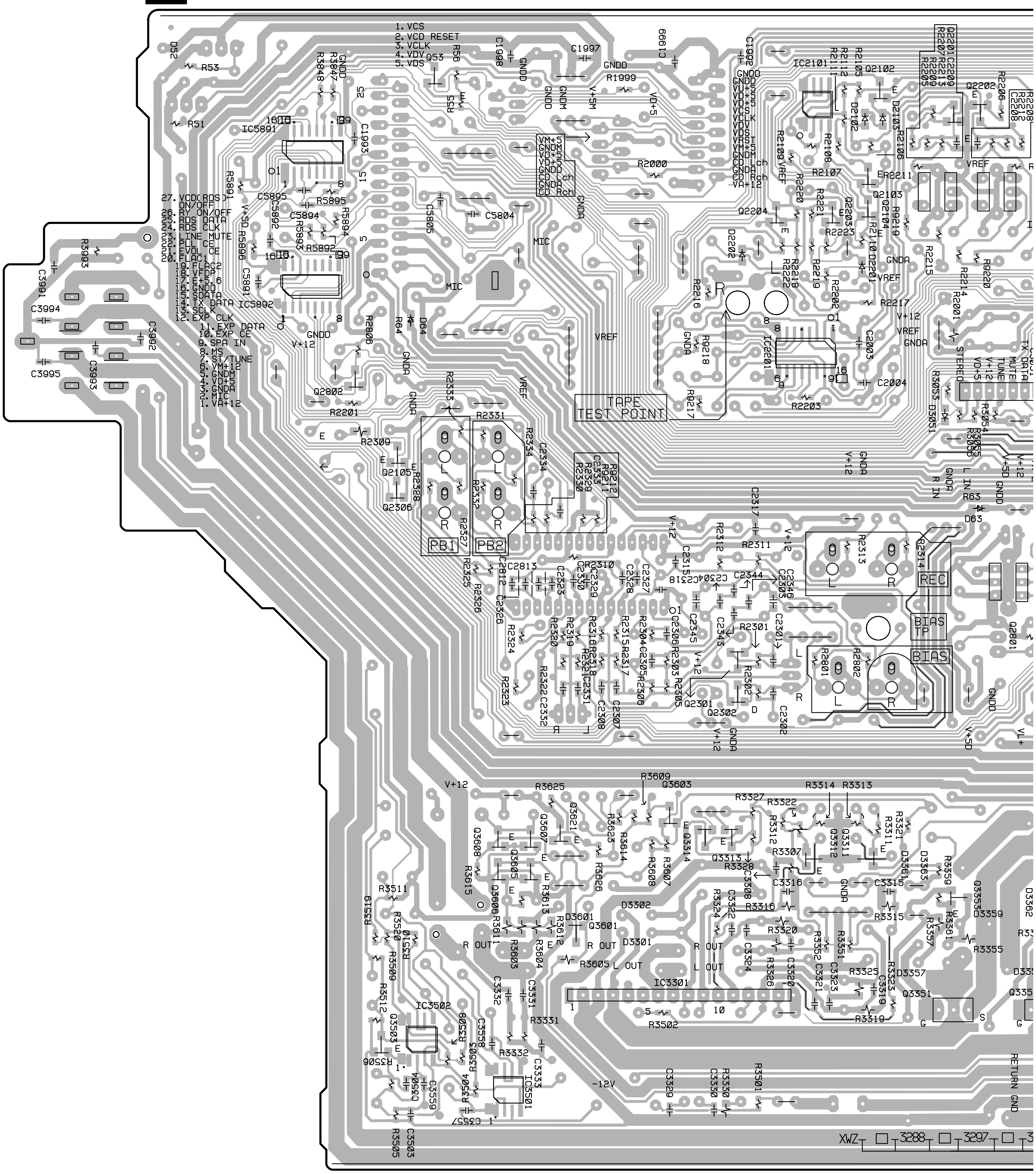
SIDE A

IC2301 Q52 Q51

IC3302 IC3301

A

F AF ASSY

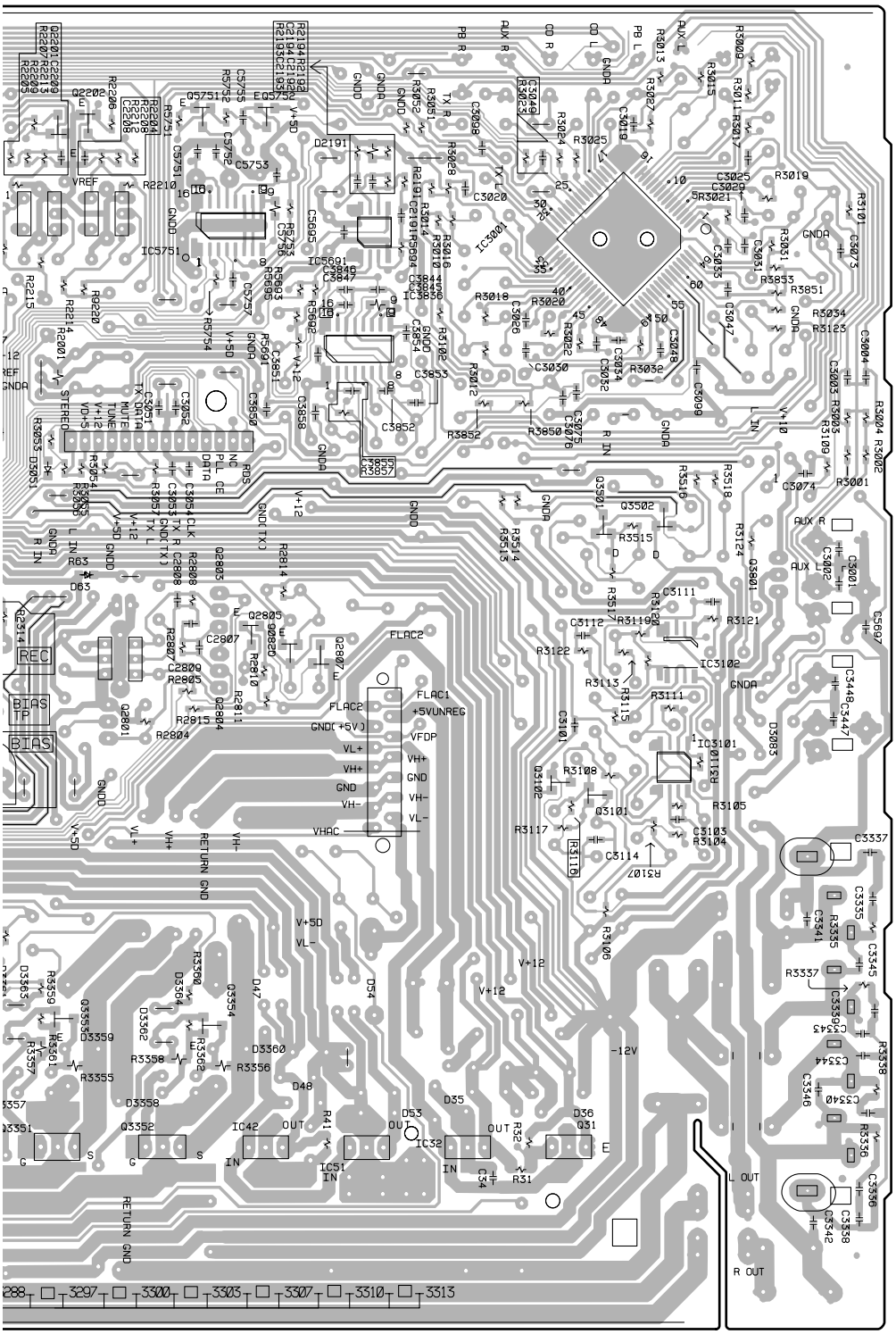


B

C

D

IC5891 IC5892
Q53
Q2802
Q2105
Q2306
Q3503 IC3502
Q3605-Q3608
IC3501
Q3621
Q3601
Q3603
IC3301
Q3314 Q3313
Q2204
Q2301
Q2302
IC2101 IC2201
Q2203
Q3312
Q2102-Q2104
Q3311
Q2202
Q3353
Q3351

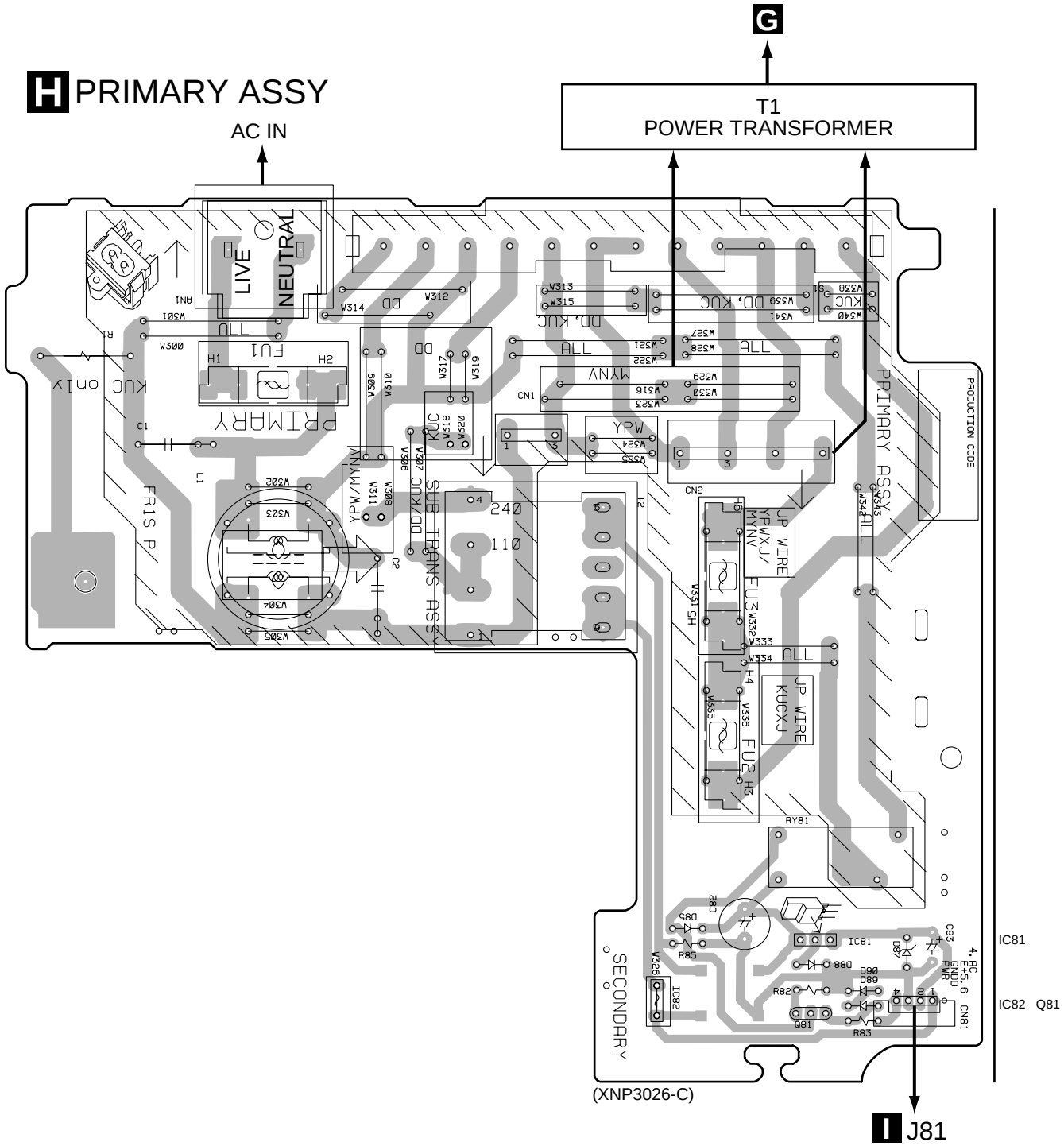


(XNP3025-C)

SIDE B

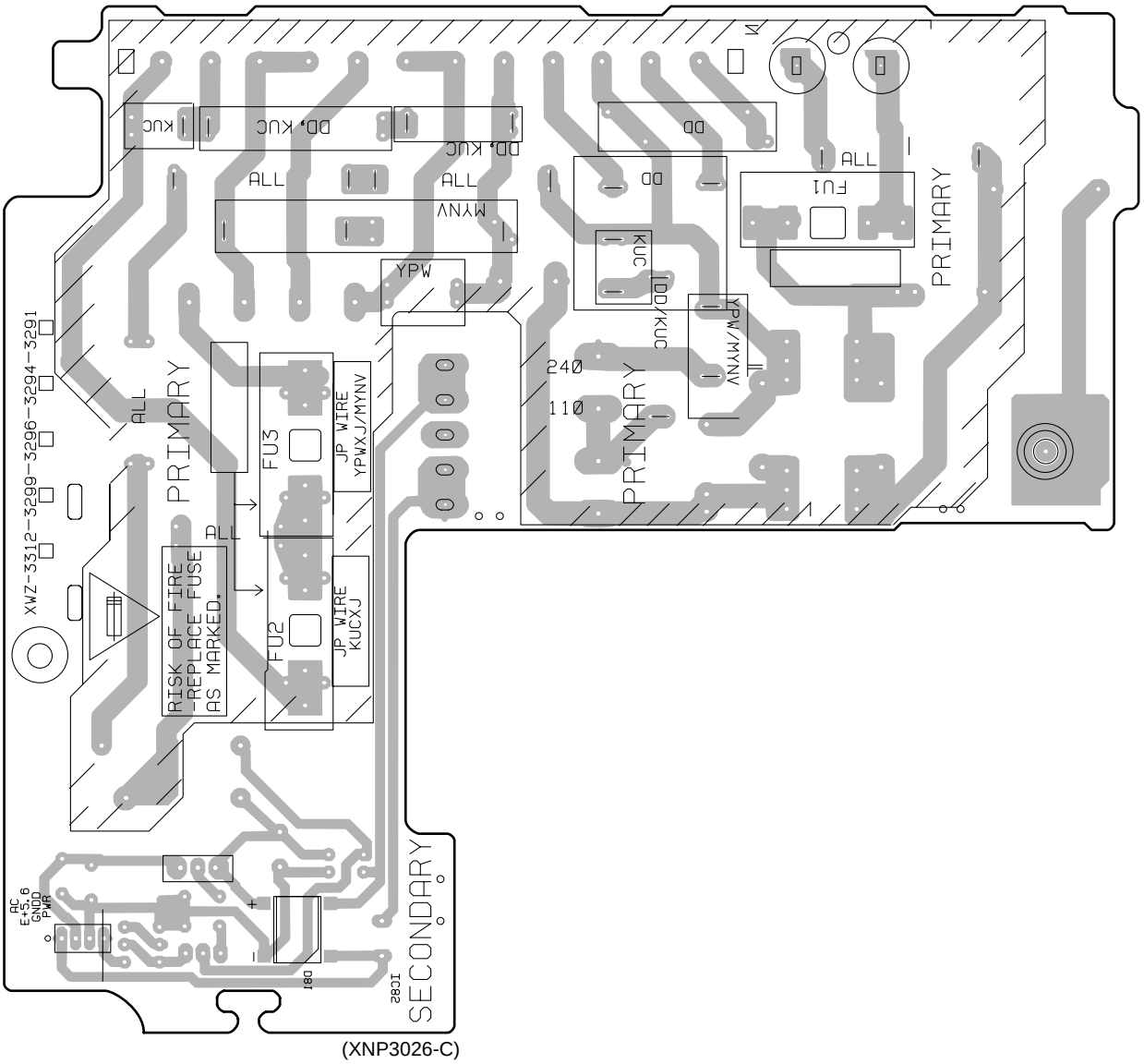
04 Q2202 Q5751 Q5752 IC3001
IC5751 Q3501 Q3502
Q3353 Q3354 Q2804-Q2807 Q3102 Q3101 IC3102
Q3351 Q3352 IC42 IC51 IC32 Q31 IC3101

4.5 PRIMARY ASSY



SIDE A

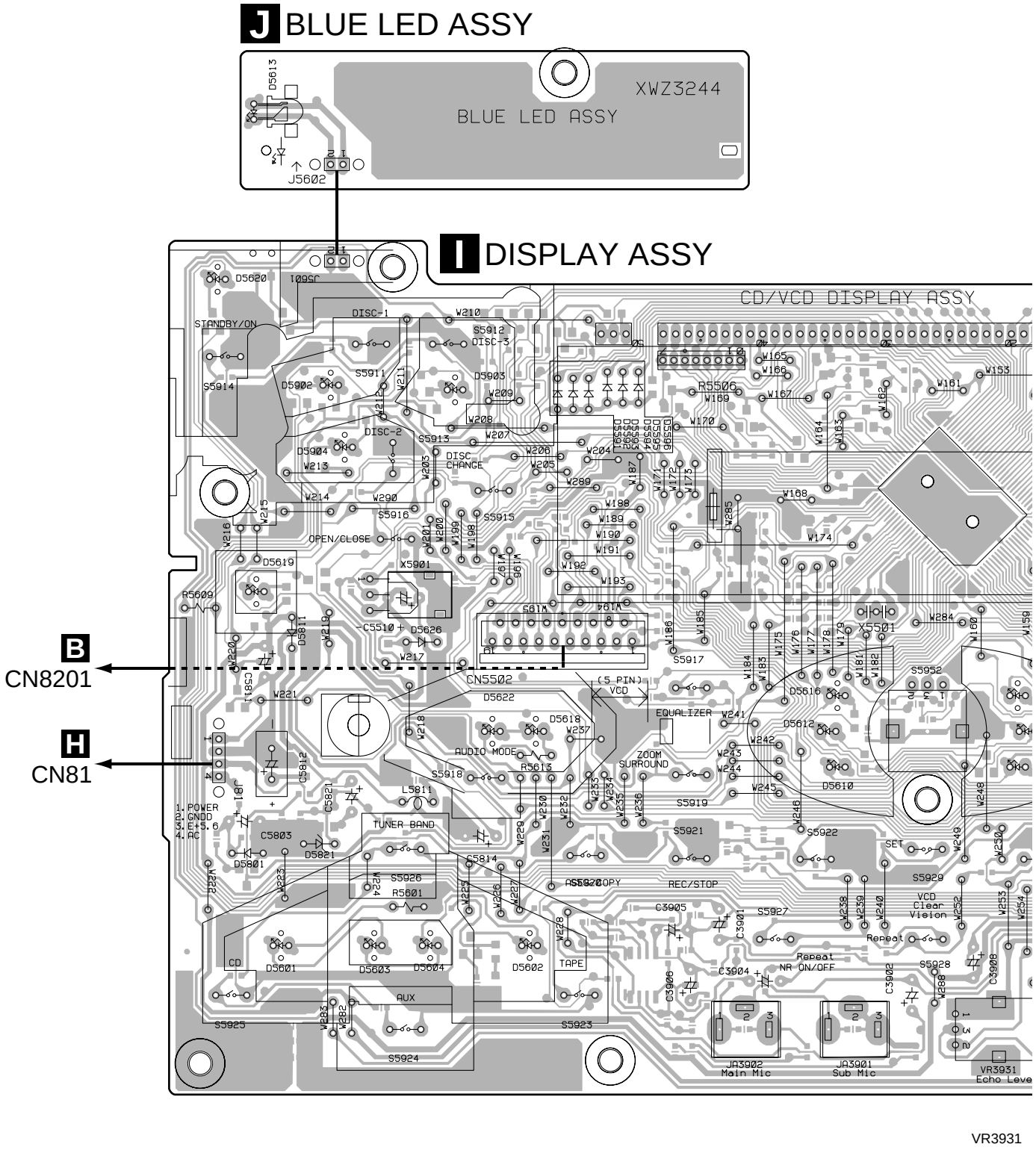
H PRIMARY ASSY



(XNP3026-C)

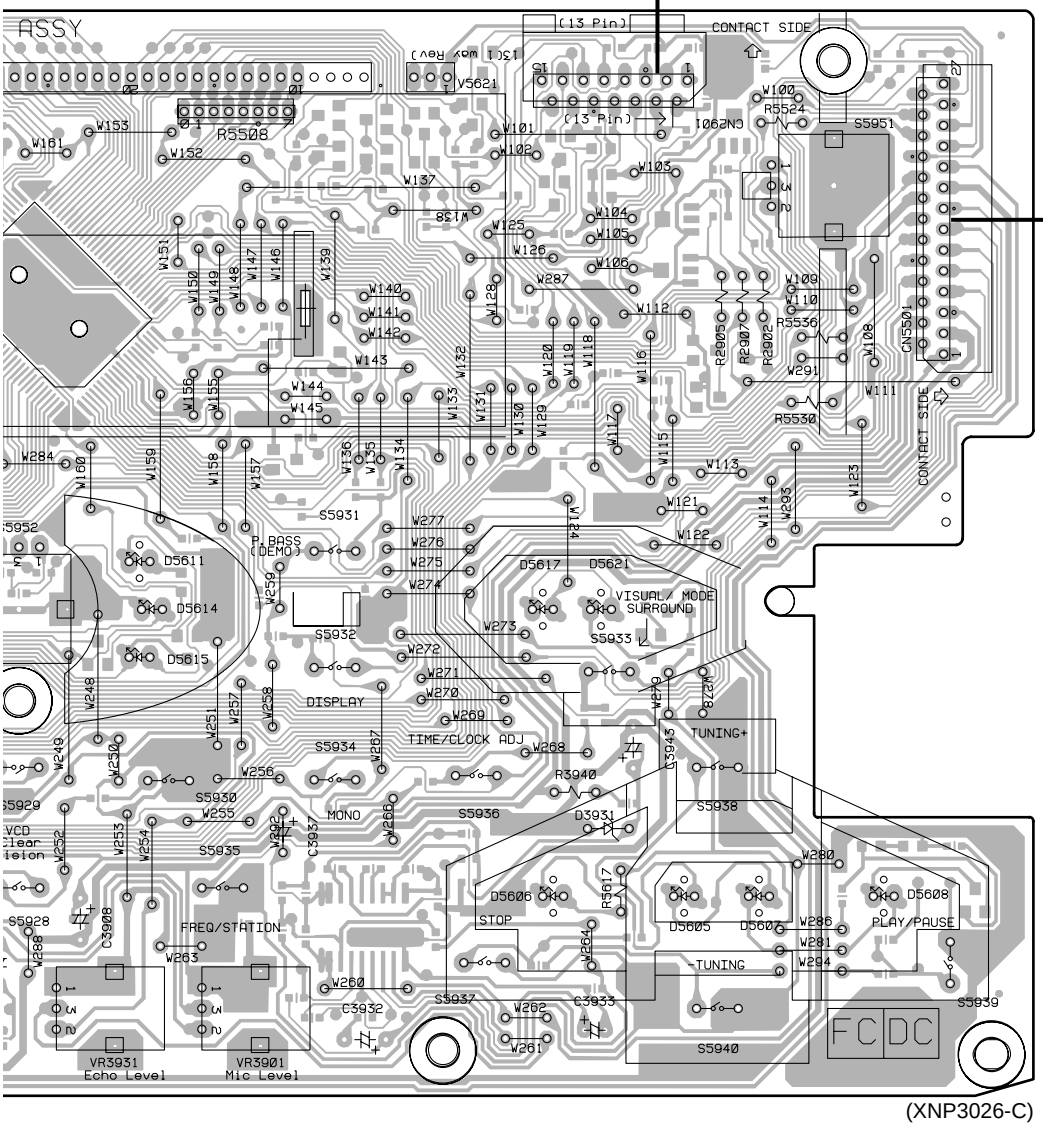
SIDE B

4.6 DISPLAY and BLUE LED ASSYS



DECK MECHANISM UNIT

F CN5105

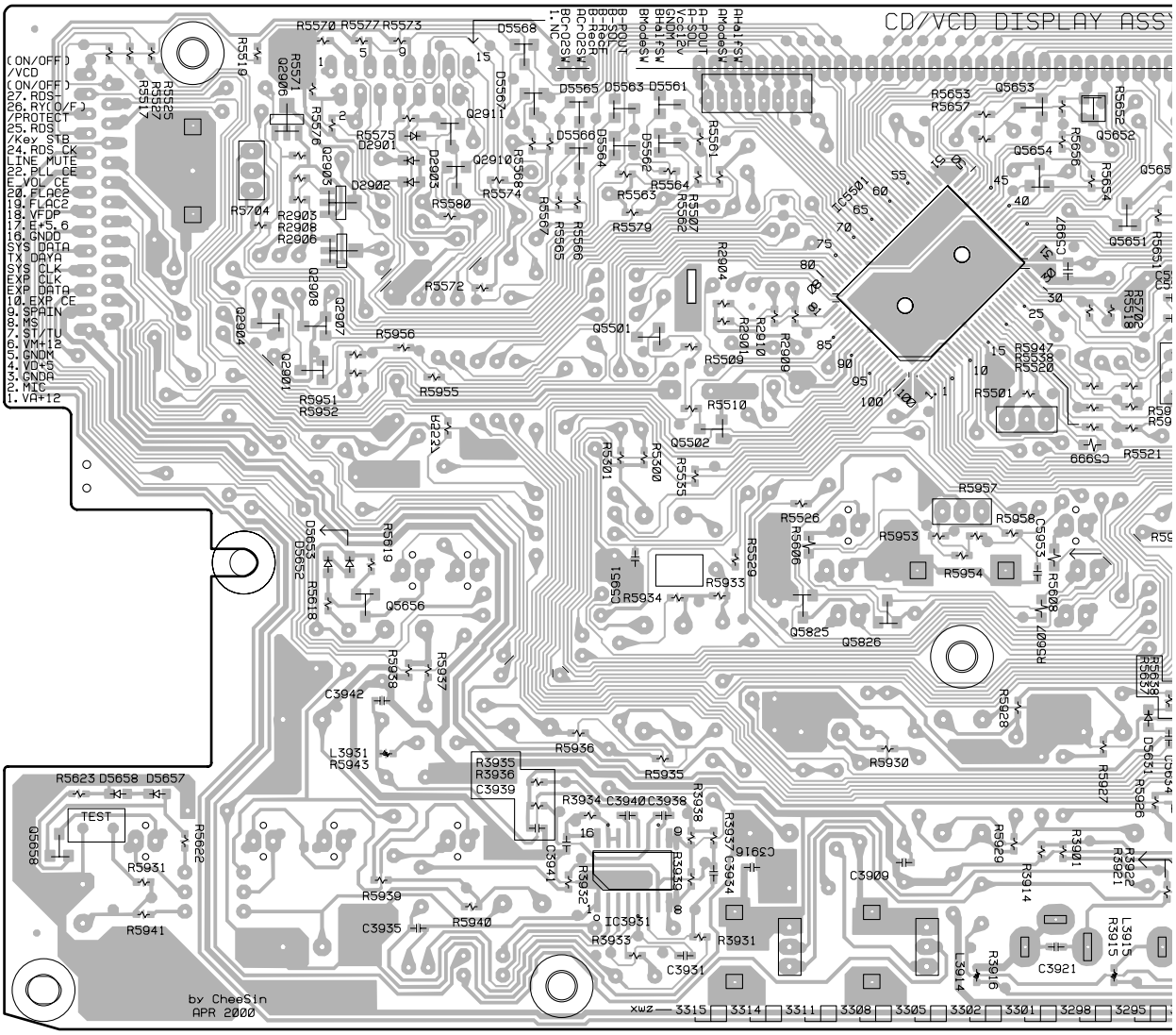


(XNP3026-C)

VR3931 VR3901

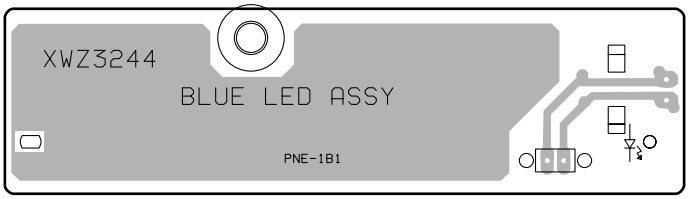
SIDE A

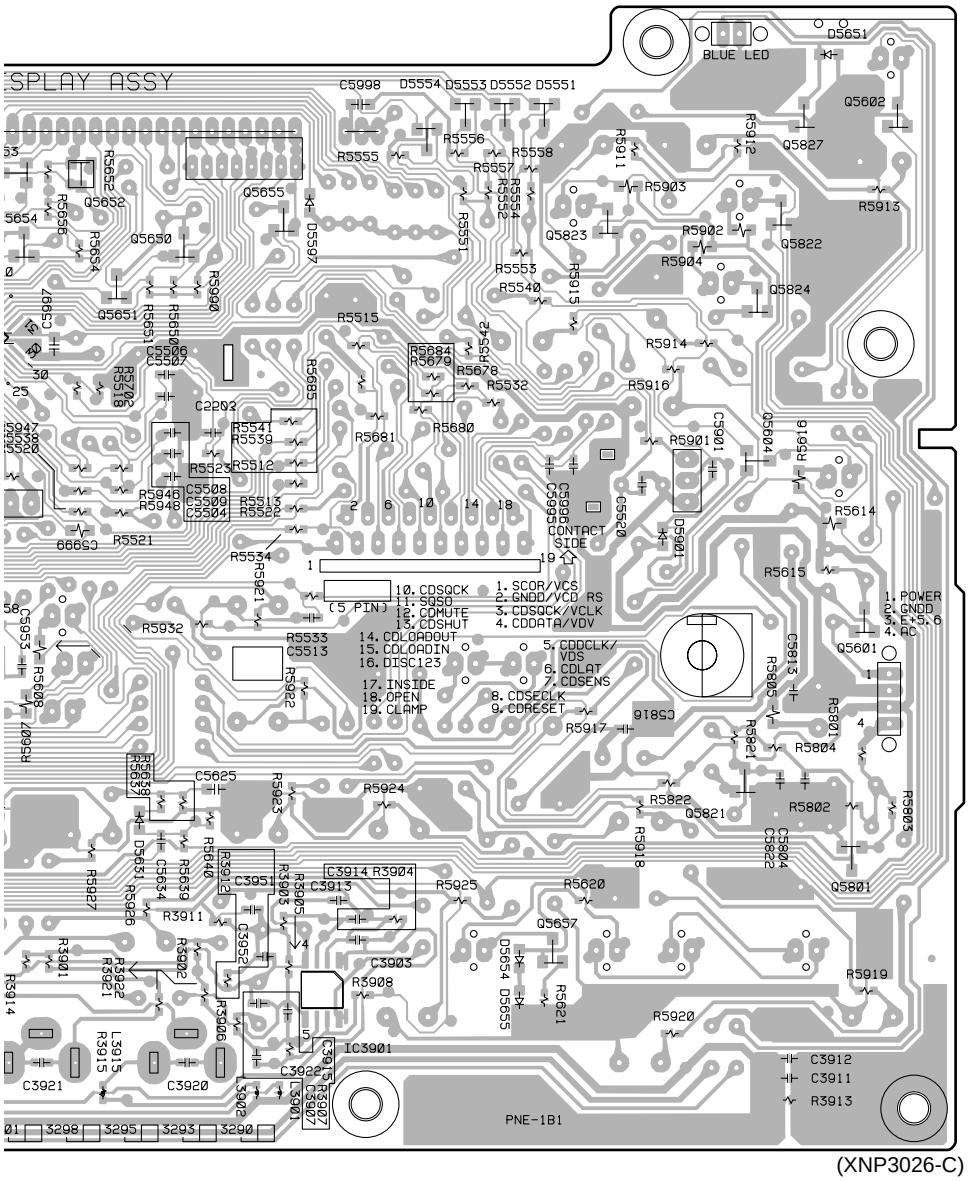
DISPLAY ASSY



Q2906 Q2911 IC5501 Q5650-Q565
Q2904 Q2903 Q2910 Q5501
Q5658 Q2908 IC3931 Q5502 Q5825 Q5826
Q2907
Q5556

J BLUE LED ASSY





(XNP3026-C)

SIDE B

Q5650-Q5655 Q5823 Q5827 Q5602 Q5822

IC3901 Q5657 Q5824 Q5601 Q5604 Q5801 Q5821

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*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.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56×10^1 → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47×10^3 → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562×10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

■LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		XR-A6800/MYXJ	XR-A4800/MYXJ	XR-A4800/NVXJ	
	FM/ AM TUNER MODULE	AXQ7068	AXQ7068	AXQ7068	
NSP	$M SERVO MECHANISM ASSY	XWX3008	XWX3007	XWX3007	
	├ CD ASSY	XWZ3233	XWZ3229	XWZ3229	
	├ MOTOR ASSY	XWZ3230	XWZ3230	XWZ3230	
	├ SW ASSY	XWZ3231	XWZ3231	XWZ3231	
	└ TRADE ASSY	XWZ3232	XWZ3232	XWZ3232	
	MAIN ASSY	XWM3163	XWM3152	XWM3152	
	├ AF ASSY	XWZ3310	XWZ3297	XWZ3297	
	└ SECONDARY ASSY	XWZ3304	XWZ3289	XWZ3289	
	COMPLEX ASSY	XWM3168	XWM3158	XWM3158	
	├ PRIMARY ASSY	XWZ3312	XWZ3299	XWZ3299	
	├ DISPLAY ASSY	XWZ3311	XWZ3298	XWZ3298	
	└ BLUE LED ASSY	XWZ3292	XWZ3292	XWZ3292	

B CD ASSY

XWZ3233 and XWZ3229 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3233	XWZ3229	
	L8651	LFA100J	Not used	
	C8604	CCSQCH220J50	Not used	
	C8651, C8653	CKSQYF103Z50	Not used	
	C8652	CEAT101M10	Not used	
	R8601	RS1/10S181J	Not used	
	R8651	RS1/10S821J	Not used	
	R8652	RS1/10S152J	Not used	
	JA8651 OPTICAL LINK OUT	GP1F32T	Not used	

G SECONDARY ASSY

XWZ3304 and XWZ3289 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3304	XWZ3289	
⚠	IC11	AEK7068 (10A)	AEK7047 (7A)	
⚠	IC12	AEK7022 (10A)	AEK7021 (7A)	
⚠	IC21, IC22	AEK7047 (7A)	AEK7046 (5A)	
⚠	C11, C12	XCH3001 (4700µF/71V)	ACH7071 (2200µF/63V)	

H PRIMARY ASSY

XWZ3312 and XWZ3299 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3312	XWZ3299	
⚠	L1 LINE FILTER	ATF1136	XTF3001	

I DISPLAY ASSY

XWZ3311 and XWZ3298 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3311	XWZ3298	
	Q5656-Q5658	2SC2412K	Not used	
	D5561, D5562	1SS181	Not used	
	D5593	1SS133	Not used	
	D5601-D5608, D5618, D5622	SLP3118C51H	Not used	
	D5617, D5621	SLP6118C51H	Not used	
	D5652-D5655, D5657, D5658	1SS355	Not used	
	R3908	RS1/16S122J	RS1/16S681J	
	R5561, R5562	RS1/16S152J	Not used	
	R5570, R5571	RS1/16S473J	Not used	
	R5601, R5613, R5617	RD1/4PU151J	Not used	
	R5618, R5620, R5622	RS1/16S222J	Not used	
	R5619, R5621, R5623	RS1/16S330J	Not used	

PCB PARTS LIST FOR XR-A6800/MYXJ UNLESS OTHERWISE NOTED

Mark	No.	Description	Part No.

A FM/AM TUNER MODULE

SEMICONDUCTORS

	IC6201	LA1832ML
	IC6202	LC72131MD
	Q6102	2SC2223
	Q6203	2SC2705
	Q6201,Q6202	2SC2712
	Q6103,Q6214,Q6601	2SC2714
	Q6104,Q6105	2SK302
	Q6101	3SK194
	Q6204	DTA124ES
	Q6205	DTC124EK
	D6202	1SS254
	D6101-D6104	1SV228

COILS AND FILTERS

	L6106	FM COIL	ATC1003
	L6105	FM RF COIL	ATC1015
	L6101	FM ANTENNA COIL	ATC1016
	L6102	FM ANTENNA COIL	ATC1017
	L6103	FM RF DRIVE COIL	ATC1018
	L6104	FM RF TUNIG COIL	ATC1019
	F6203	FM CERAMIC FILTER	ATF-119
	F6206	FM CERAMIC DISCLI.	ATF7008
	F6601	ANTI BIRDY FILTER	ATF7009
	F6204	FM CERAMIC FILTER	ATF7010
	F6202	AM CERAMIC FILTER	ATF7011
	L6107	CHIP COIL	ATH1043
	L6603		LAU220J
	L6206,L6208,L6605		LAU2R2J

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	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

Mark	No.	Description	Part No.
	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

OTHERS

BN6202	2P ANTENNA TERMINAL	AKA7001
X6202	CERAMIC RESONATOR (456kHz)	ASS1066
X6201	CRYSTAL RESONATOR (7.2000MHz)	ASS1093
CN6201	14P SOCKET	KP200IA14L

B CD ASSY

SEMICONDUCTORS

IC8301	BA5970FP
IC8101	CXA1821M
IC8201	CXD2587Q
Q8101	2SA854S
Q8351,Q8352	2SB1237X
Q8353,Q8354	2SD1858X
Q8201	DTA124EK
Q8202	DTC114EK
Q8203,Q8355,Q8356	DTC143EK
D8201,D8202,D8351-D8354	1SS355

COILS

L8101,L8651	LFA100J
L8301	LFA470J

CAPACITORS

C8256,C8359,C8364	CCSQCH101J50
C8201	CCSQCH120J50
C8110,C8202,C8604	CCSQCH220J50
C8239,C8246,C8247,C8401,C8402	CCSQCH221J50
C8322,C8324	CCSQCH681J50
C8403,C8404	CCSQSL681J50
C8405,C8406	CEAT100M50
C8102,C8104,C8652	CEAT101M10
C8203,C8233,C8240,C8242,C8249	CEAT101M6R3
C8602	CEAT101M6R3
C8301	CEAT102M6R3
C8409,C8411	CEAT221M10
C8109,C8111	CEAT330M25
C8351	CEAT331M10
C8238	CEATR47M50
C8407,C8408	CKSQYB102K50
C8204-C8206,C8237,C8253,C8373	CKSQYB103K50
C8107,C8245	CKSQYB104K25
C8236,C8415,C8416	CKSQYB152K50
C8231,C8331	CKSQYB222K50
C8341,C8342	CKSQYB333K50
C8235	CKSQYB473K50
C8311,C8312	CKSQYB681K50
C8332	CKSQYB822K50
C8101,C8103,C8106,C8108,C8112	CKSQYF103Z50
C8232,C8234,C8241,C8248	CKSQYF103Z50
C8250,C8251,C8302-C8306,C8358	CKSQYF103Z50
C8363,C8413,C8414,C8417,C8601	CKSQYF103Z50
C8603,C8651,C8653	CKSQYF103Z50

RESISTORS

R8343,R8344	RS1/10S1802F
R8341,R8342	RS1/10S4702F
Other Resistors	RS1/10S□□□J

OTHERS

X8201	CRYSTAL RESONATOR (16.9344MHz)	PSS1008
CN8204	8P FFC CONNECTOR	52044-0845
CN8201	19P FFC CONNECTOR	52045-1945
CN8203	2P TOP POST	B2P-SHF-1AA
JA8651	OPTICAL LINK OUT	GP1F32T
CN8002	FFC CONNECTOR 11P	SLW11R-1C7
CN8101	FFC CONNECTOR 16P	SLW16R-1C7

C MOTOR ASSY

SWITCH

S9503	ASG7009

OTHERS

J9502	JUMPER WIRE 4P	D20PWW0405E
	MOTOR PULLEY	PNW1634
	CARRIAGE MOTOR (LOADING)	VXM1033

D SW ASSY

SWITCHES

S9502	ASG7009
S9501	DSG1017

OTHERS

J9501	JUMPER WIRE 6P	D20PWY0610E

E TRADE ASSY

OTHERS

CN9501	6P JUMPER CONNECTOR	52147-0610
CN9001	KR CONNECTOR	S6B-PH-K-S
CN9002	FFC CONNECTOR 11P	SLW11R-1C7

Mark	No.	Description	Part No.

F AF ASSY (XWZ3310)

SEMICONDUCTORS

	IC3836	BA3838F
⚠	IC2101,IC3101,IC3102,IC3501,IC3502	BA4558F-HT
	IC5691	BA4558F-HT
⚠	IC5751	BU1923F
	IC5891,IC5892	BU4094BCF
	IC2201	HA12136AF
	IC2301	HA12211NT
	IC3001	LC75394NED
⚠	IC42	NJM7805FA
⚠	IC32	NJM7812FA
	IC3301	STK407-090B
	Q3354,Q3601,Q3621,Q5751	2SA1037K
	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,Q3501,Q3502	2SK368
	Q3313,Q3503	DTA124EK
	Q2104,Q2105,Q3314,Q5752	DTC124EK
	Q2103,Q2306,Q2802,Q2807	DTC143EK
⚠	Q3352	IRF540A
⚠	Q3351	IRF9540A
⚠	D3301,D3302	1SR139-100
	D2191,D2301-D2306,D3101,D3102	1SS133
	D3351-D3354,D3361,D3362,D3601	1SS133
	D3603,D3604,D3621,D3622	1SS133
	D3625,D3626,D46	1SS133
	D2102,D2103,D2201,D2202,D3051	1SS355
	D63,D64	1SS355
⚠	D3355,D3356	20E2-FC
	D3083	MTZJ11C
	D61	MTZJ12C
	D35,D36	MTZJ15C
	D3359,D3360	MTZJ18B
	D3363,D3364	MTZJ39C
	D2001	MTZJ6.2A
	D48	MTZJ6.8C
	D3357,D3358	MTZJ7.5C
	D51,D52	S5688G

COILS AND FILTERS

	L3331-L3334 AF CHOKE COIL	ATH-133
	L2801 OSC COIL	ATX7002
	L2301,L2302	LTA822J
	L101 FERRITE BEAD	VTH1024
	F2201,F2202 MPX FILTER	XTF3002
	L5751 AXIAL INDUCTOR	XTL3002

RELAYS

	RY3601	ASR7008

Mark	No.	Description	Part No.

CAPACITORS

	C3345,C3346 (0.01μF)	ACG7021
	C5756	CCSQCH561J50
	C2301,C2302	CCSRCH100D50
	C3001,C3002,C3047,C3048,C3858	CCSRCH101J50
	C2192	CCSRCH220J50
	C5751,C5752,C5755	CCSRCH270J50
	C5757	CCSRCH271J50
	C2327-C2330,C3321,C3322,C3852	CCSRCH470J50
	C3854	CCSRCH470J50
	C3994,C3995	CCSRCH681J50
	C3319,C3320	CCSRCH6R0D50
	C3311,C3312,C3507,C3508	CEANL1R0M50
	C3317,C3318	CEANP220M35
	C3621	CEANP2R2M2A
	C3313,C3314	CEANP2R2M50
	C3441	CEANP330M2A
	C2207,C2803,C2810,C3045,C3115	CEAT100M50
	C32,C33,C35,C3602,C3842	CEAT100M50
	C43,C5691,C5692,C5758	CEAT100M50
	C2002,C2316	CEAT101M16
	C3303,C3304	CEAT101M50
	C2312,C2313,C3035,C3036,C3110	CEAT1R0M50
	C3506	CEAT1R0M50
	C2106,C2214,C2215,C2321,C2322	CEAT220M50
	C2001,C3601	CEAT221M16
⚠	C41	CEAT222M25
	C2201,C2202,C2205,C2206	CEAT2R2M50
	C2212,C2213,C2319,C2320	CEAT2R2M50
	C3005-C3010,C3015-C3018,C3037	CEAT2R2M50
	C3039,C3091,C3104	CEAT2R2M50
	C2804,C2805,C5754	CEAT330M16
	C3107	CEAT3R3M50
	C3841	CEAT470M16
	C3501,C3502,C3509,C3510	CEAT470M25
	C3081,C3108,C3109,C3857	CEAT4R7M50
	C3021,C3022	CEATR10M50
	C2203,C2204	CEATR22M50
	C3011,C3012,C3043,C3044,C3082	CEATR47M50
	C3102,C3325	CEATR47M50
	C3046	CEJA100M50
	C3038,C3040	CEJA2R2M50
	C3027,C3028	CFTLA334J50
	C3023,C3024	CFTLA564J50
	C2802	CKCYB681K2H
	C2194	CKSQYB105K10
	C3845	CKSQYB224K16
	C3447,C3448,C3991,C5753,C5892	CKSRYB102K50
	C1997,C2315,C2317,C2318,C3053	CKSRYB103K50
	C3098,C3103,C3329,C3330	CKSRYB103K50
	C2003,C2004,C2191,C2193	CKSRYB104K16
	C3025,C3026,C3099,C3846,C3847	CKSRYB104K16
	C5891	CKSRYB104K16
	C3033,C3034,C3073-C3076	CKSRYB122K50
	C2208,C2209	CKSRYB152K50
	C3315,C3316	CKSRYB222K50
	C2323,C2326	CKSRYB223K50
	C2812,C2813	CKSRYB272K50
	C2808,C2809	CKSRYB332K50
	C2333,C2334	CKSRYB392K50
	C2807,C3051,C3052,C3851,C3853	CKSRYB472K50

Mark	No.	Description	Part No.
	C3855		CKSRYB472K50
	C3101,C3111,C3112,C3844,C3850		CKSRYB473K16
	C2303,C2304,C2343,C2344		CKSRYB561K50
	C3029,C3030		CKSRYB563K16
	C3019,C3020,C3031,C3032		CKSRYB682K50
	C3503,C3504		CKSRYB682K50
	C2307,C2308,C2331,C2332		CKSRYB821K50
	C3331-C3333,C3335-C3338		CKSRYF104Z50
	C2801		CQHA822J2A
	C2210,C2211		CQMBA103J50
	C2806		CQMBA223J50

RESISTORS

	R2813		RD1/2LMF471J
	R2809		RD1/2LMF4R7J
	R2812		RD1/2LMF680J
	R3333,R3334		RD1/4LMF101J
	R3353,R3354		RD1/4PU101J
	R3081		RD1/4PU221J
	R3317,R3318		RD1/4PU823J
	R3605		RS1/10S103J
	R3357,R3358		RS1/10S153J
	R2309		RS1/10S222J
	R3330,R3611,R3612		RS1/10S223J
	R2001		RS1/10S471J
	R3319,R3320		RS1/10S561J
	R3355,R3356		RS1/10S563J
	R3315,R3316,R3603,R3604		RS1/10S823J
	R61		RS1LMF821J
⚠	R3991,R3992		RS2LMF331J
	R3601,R3602		RS3LMFR22J
	VR2303-VR2306 (10kΩ)		VCP1156
	VR2301,VR2302 (100kΩ)		VCP1162
	VR2801,VR2802 (220kΩ)		VCP1164
	Other Resistors		RS1/16S□□□J

OTHERS

		14P CABLE HOLDER	51063-1405
	CN1052	8P FFC CONNECTOR	52045-0845
	CN3331	4P SPEAKER TERMINAL	AKE7018
	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
	J11	JUMPER WIRE	D15A14-450-2651
	CN5105	27P FFC CONNECTOR	HLEM27S-1
	CN3051	14P PLUG	KM200IB14
		PCB BINDER	VEF1040
	JA3001,JA3441	2P PIN JACK	VKB1060
	JA3991	HEADPHONE JACK	XKN3004

F AF ASSY (XWZ3297)

SEMICONDUCTORS

⚠	IC3836		BA3838F
⚠	IC2101,IC3101,IC3102,IC3501,IC3502		BA4558F-HT
	IC5691		BA4558F-HT
⚠	IC5751		BU1923F
	IC5891		BU4094BCF
	IC2301		HA12211NT
	IC3001		LC75394NED
⚠	IC42		NJM7805FA
⚠	IC32		NJM7812FA
⚠	IC3301		STK407-070B
	Q3354,Q3601,Q3621,Q5751		2SA1037K
	Q2803,Q2804		2SC1815
	Q3101,Q3102,Q3353,Q3603		2SC2412K
	Q3605-Q3608		2SC2412K
	Q3081		2SD1858X
⚠	Q31		2SD2012
	Q2805,Q3311,Q3312		2SD2114K
	Q2301,Q2302,Q3501,Q3502		2SK368
	Q3313,Q3503		DTA124EK
	Q3314,Q5752		DTC124EK
	Q2306		DTC143EK
⚠	Q3351		IRFI9Z34G
⚠	Q3352		IRFIZ34G
⚠	D3301,D3302		1SR139-100
⚠	D2191		1SS133
	D2301-D2306		1SS133
⚠	D3101,D3102		1SS133
	D3351-D3354,D3361,D3362,D3601		1SS133
	D3603,D3604,D3621,D3622		1SS133
	D3625,D3626		1SS133
⚠	D46		1SS133
	D2201,D2202,D3051,D63,D64		1SS355
⚠	D3355,D3356		20E2-FC
	D3083		MTZJ11C
	D61		MTZJ12C
	D35,D36		MTZJ15C
	D3359,D3360		MTZJ18B
	D3363,D3364		MTZJ39C
	D2001		MTZJ6.2A
	D48		MTZJ6.8C
	D3357,D3358		MTZJ7.5C
	D51,D52		S5688G

COILS

	L3331-L3334	AF CHOKE COIL	ATH-133
	L2801	OSC COIL	ATX7002
	L2301,L2302		LTA822J
	L5751	AXIAL INDUCTOR	XTL3002

RELAYS

	RY3601		ASR7008

CAPACITORS

	C3345,C3346 (0.01μF)		ACG7021
	C2335-C2338		CCCCH270J50
	C5756		CCSQCH561J50
	C2301,C2302		CCSRCH100D50
	C3001,C3002,C3047,C3048,C3858		CCSRCH101J50
	C2192		CCSRCH220J50
	C5751,C5752,C5755		CCSRCH270J50
	C5757		CCSRCH271J50
	C2327-C2330,C3321,C3322,C3852		CCSRCH470J50
	C3854		CCSRCH470J50
	C3994,C3995		CCSRCH681J50
	C3319,C3320		CCSRCH6R0D50
	C3311,C3312,C3507,C3508		CEANL1R0M50
	C3317,C3318		CEANP220M35
	C3621		CEANP2R2M2A

Mark	No.	Description	Part No.
	C3313,C3314		CEANP2R2M50
	C2810,C3045,C3115,C32,C33		CEAT100M50
	C35,C3602,C3842,C43		CEAT100M50
	C5691,C5692,C5758		CEAT100M50
	C2002,C2316		CEAT101M16
	C3303,C3304		CEAT101M50
	C2312,C2313,C3035,C3036,C3110		CEAT1R0M50
	C3506		CEAT1R0M50
	C2214,C2215,C2321,C2322		CEAT220M50
	C2001,C3601		CEAT221M16
⚠	C41		CEAT222M25
	C2212,C2213,C2319,C2320		CEAT2R2M50
	C3005-C3010,C3015-C3018,C3037		CEAT2R2M50
	C3039,C3091,C3104		CEAT2R2M50
	C2804,C2805,C5754		CEAT330M16
	C3107		CEAT3R3M50
	C3841		CEAT470M16
	C3501,C3502,C3509,C3510		CEAT470M25
	C3081,C3108,C3109,C3857		CEAT4R7M50
	C3021,C3022		CEATR10M50
	C3011,C3012,C3043,C3044,C3082		CEATR47M50
	C3102,C3325		CEATR47M50
	C3046		CEJA100M50
	C3038,C3040		CEJA2R2M50
	C3027,C3028		CFTLA334J50
	C3023,C3024		CFTLA564J50
	C2194		CKSQYB105K10
	C3845		CKSQYB224K16
	C1997,C2315,C2317,C2318,C3053		CKSRYB103K50
	C3098,C3103,C3329,C3330,C5753		CKSRYB103K50
	C2191,C2193,C3025,C3026,C3099		CKSRYB104K16
	C3846,C3847,C5891		CKSRYB104K16
	C3033,C3034,C3073-C3076		CKSRYB122K50
	C3315,C3316		CKSRYB222K50
	C2323,C2326		CKSRYB223K50
	C2812,C2813		CKSRYB272K50
	C2808,C2809		CKSRYB332K50
	C2333,C2334		CKSRYB392K50
	C2807,C3051,C3052,C3853,C3855		CKSRYB472K50
	C3101,C3111,C3112,C3844,C3850		CKSRYB473K16
	C2303,C2304,C2343,C2344		CKSRYB561K50
	C3029,C3030		CKSRYB563K16
	C3019,C3020,C3031,C3032		CKSRYB682K50
	C3503,C3504		CKSRYB682K50
	C2307,C2308,C2331,C2332		CKSRYB821K50
	C3331-C3333,C3335-C3338		CKSRYF104Z50
	C2801		CQHA822J2A
	C2806		CQMBA223J50

RESISTORS

	R2812	RD1/2LMF470J
	R2809	RD1/2LMF4R7J
	R3333,R3334	RD1/4LMF101J
	R3353,R3354	RD1/4PU101J
	R2113	RD1/4PU103J
	R3081	RD1/4PU221J
	R3317,R3318	RD1/4PU823J
	R3605	RS1/10S103J
	R3357,R3358	RS1/10S153J
	R2309	RS1/10S222J

Mark	No.	Description	Part No.
	R3330,R3611,R3612		RS1/10S223J
	R2001		RS1/10S471J
	R3319,R3320		RS1/10S561J
	R3355,R3356		RS1/10S563J
	R3315,R3316,R3603,R3604		RS1/10S823J
	R61		RS1LMF821J
⚠	R3991,R3992		RS2LMF331J
	R3601,R3602		RS3LMFR22J
	VR2802 (100kΩ)		VCP1162
	Other Resistors		RS1/16S□□□J

OTHERS

	14P CABLE HOLDER	51063-1405
CN1052	8P FFC CONNECTOR	52045-0845
CN5105	27P FFC CONNECTOR	52045-2745
CN3331	4P SPEAKER TERMINAL	AKE7018
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
J11	JUMPER WIRE	D15A14-450-2651
CN3051	14P PLUG	KM200IB14
	PCB BINDER	VEF1040
JA3001	2P PIN JACK	VKB1060
JA3991	HEADPHONE JACK	XKN3004

G SECONDARY ASSY

SEMICONDUCTORS

⚠	IC71 (1.25A)	AEK7010
⚠	IC41 (3A)	AEK7015
⚠	IC12 (10A)	AEK7022
⚠	IC21,IC22 (7A)	AEK7047
⚠	IC11 (10A)	AEK7068
	Q71	2SA965
	D73	1SS133
⚠	D11,D21	G5SBA20L
	D74	MTZJ33C
	D75	MTZJ8.2B
	D71,D72,D78-D81	S5688G

CAPACITORS

	C72	CEAT220M50
	C71	CEAT221M63
⚠	C21,C22	CEAT332M50
	C13	CQMA223K2E
⚠	C11,C12 (4700μF/71V)	XCH3001

RESISTORS

	All Resistors	RD1/4PU□□□J

OTHERS

	14P CABLE HOLDER	51063-1405

H PRIMARY ASSY

SEMICONDUCTORS

⚠	IC81	NJM7805FA
	Q81	2SD1859X
	D85,D88-D90	1SS133
⚠	D81	S1WB(A)60SD

Mark	No.	Description	Part No.
COIL			
	L1	LINE FILTER	ATF1136
TRANSFORMERS			
⚠	T2		XTT3004
RELAY			
⚠	RY81		ASR7018
CAPACITORS			
⚠	C1,C2 (0.01μF)		ACE7027
	C83		CEAT100M50
⚠	C82		CEAT102M25
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
	H1,H2	FUSE CLIP	AKR7001
⚠	CN1	2P VH CONNECTOR	B2P3-VH
⚠	CN2	4P VH CONNECTOR	B4P7-VH
⚠	AN1	1P AC INLET	XKP3041

I DISPLAY ASSY

SEMICONDUCTORS			
	IC3901		BA4558F-HT
	IC5501		PDC063A
	Q5501		2SA1037K
	Q2903,Q2906,Q2908		2SB1132
	Q5602,Q5656-Q5658,Q5801		2SC2412K
	Q2910,Q2911,Q5826		DTA124EK
	Q5601		DTC124EK
	Q2901,Q2904,Q2907,Q5502,Q5604		DTC143EK
	Q5650-Q5655,Q5821-Q5825,Q5827		DTC143EK
	D5593-D5596,D5626,D5811		1SS133
	D5551-D5554,D5561-D5568		1SS181
	D2901-D2903,D5631,D5652-D5655		1SS355
	D5657,D5658,D5901		1SS355
	D5601-D5608,D5610,D5611		SLP3118C51H
	D5615,D5616,D5618,D5622,D5904		SLP3118C51H
	D5612,D5614,D5617,D5621		SLP6118C51H
	D5902		SLP7118C51H
	D5619,D5620,D5903		SLP9118C51H
	D5651		UDZS5.6B
COILS			
	L3901,L3902	CHIP COIL	LCTB100K1608
	L3914,L3915	CHIP SOLID INDUCTOR	VTL1145
	L5811	AXIAL INDUCTOR	XTL3004
SWITCHES			
	S5911-S5921,S5923-S5929		XSG3001
	S5931-S5940		XSG3001
	S5951		XSX3003
	S5952		XSX3004
CAPACITORS			
	C5812 (0.047F/5.5V)		ACH1246
	C3920,C3921		CCSRCH101J50
	C3903		CCSRCH331J50
	C3914,C3915		CCSRCH470J50
	C3913		CCSRCH471J50
	C5821		CEAL100M16
	C5803		CEJA1R0M50
	C3901,C3902,C3904,C3906		CEJA2R2M50
	C3905,C5510,C5811,C5814		CEJA470M16
	C5997,C5998		CKSQYB104K25
	C5999		CKSQYB105K10
	C5625		CKSQYF224Z25
	C5804,C5951,C5953		CKSRYB102K50
	C3911,C3951,C3952,C5995,C5996		CKSRYB103K50
	C5816		CKSRYB104K16
	C5506		CKSRYB471K50
	C3907,C3909,C5503,C5504,C5509		CKSRYB472K50
	C5507,C5508		CKSRYB473K16
	C3922		CKSRYB561K50
	C5634,C5901		CKSRYF104Z50
	C5813,C5822		CKSRYF473Z50
RESISTORS			
	R5506,R5508		RA7T104J
	R2905,R5524,R5536		RD1/4PU102J
	R5601,R5613,R5617		RD1/4PU151J
	R5530		RD1/4PU221J
	R5609		RD1/4PU391J
	R2902,R2907		RD1/4PU681J
	R5805		RS1/10S101J
	R5902-R5904		RS1/10S221J
	R5614,R5616		RS1/10S471J
	R5606-R5608		RS1/10S620J
	VR3901 (10k-X1)		XCS3002
	Other Resistors		RS1/16S□□□J
OTHERS			
	X5501	CERAMIC RESONATOR (10MHz)	DSS1048
		2P CABLE HOLDER	51048-0200
		4P CABLE HOLDER	51048-0400
	CN5502	FFC CONNECTOR 19P	52492-1920
	JA3901,JA3902	REMOTE CONTROL JACK	AKN7004
	J5601	JUMPER WIRE 2P	D20PYY0210E
	J81	JUMPER WIRE 4P	D20PYY0425E
	X5901	REMOTE RECEIVER UNIT	GP1U28X
	CN2901	FFC CONNECTOR 15P	HLEM15R-1
	CN5501	FFC CONNECTOR 27P	HLEM27R-1
	5621	FL HOLDER	VNF1096
	V5621	FL TUBE	XAV3009

J BLUE LED ASSY

SEMICONDUCTOR			
	D5613		E1L4E-7B(123)
OTHERS			
		2P CABLE HOLDER	51048-0200
		LED HOLDER	XAK3154

6. ADJUSTMENT

6.1 TUNER SECTION

■ 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 to 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.

■ 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 to 45	999kHz (∗1)	T6201	Adjust so that the DC voltage between the IC6201 - pin 20 and GND becomes at maximum level.

Note (∗1) : For the area using 10kHz step, frequency should be 1000kHz.

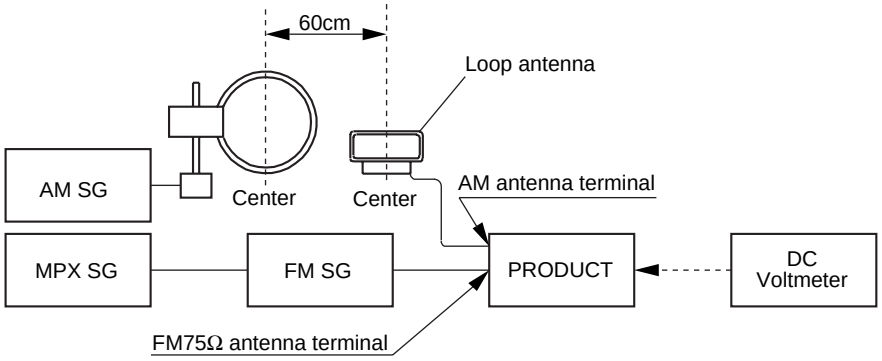


Fig.1 AM and FM Adjustment Wiring Diagram

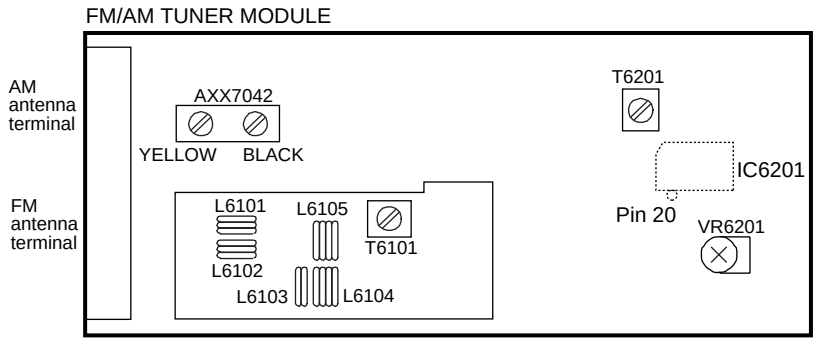


Fig.2 Adjustment Point

6.2 CASSETTE DECK SECTION

6.2.1 For XR-A6800

• 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 3000Hz ± 20Hz. Confirm that wow & flutter level is below 0.3% (in the reverse direction, confirm that the reading is within 3000Hz ± 60Hz).	

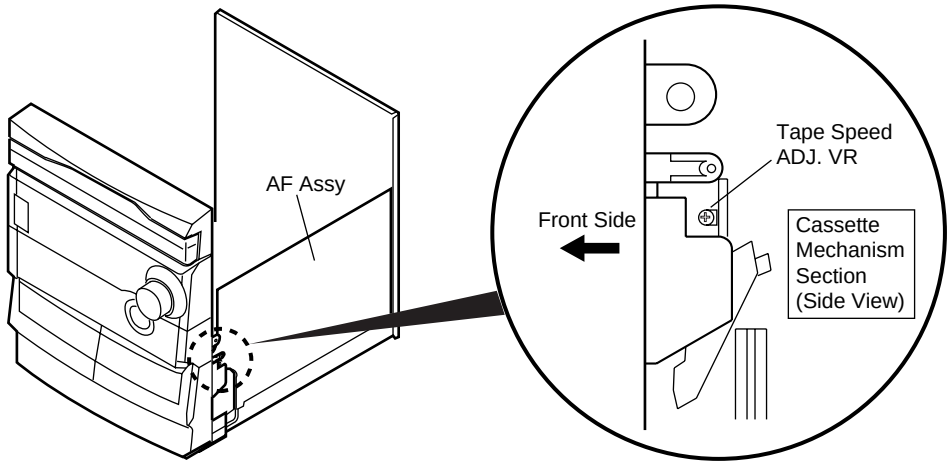


Fig.3 Tape Speed ADJ. Point

■ 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 devides:
• 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 otherwize 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.

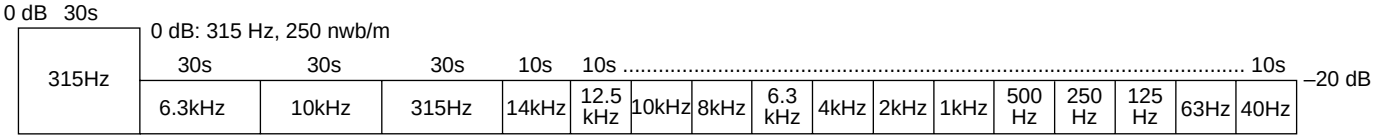


Fig.4 STD-331E Test Tape

■ 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 (L ch) VR2304 (R ch)	TAPE TEST POINT (L, Rch) (AF Assy)	– 3.7dBV	
			Deck II	VR2305 (L ch) VR2306 (R ch)			

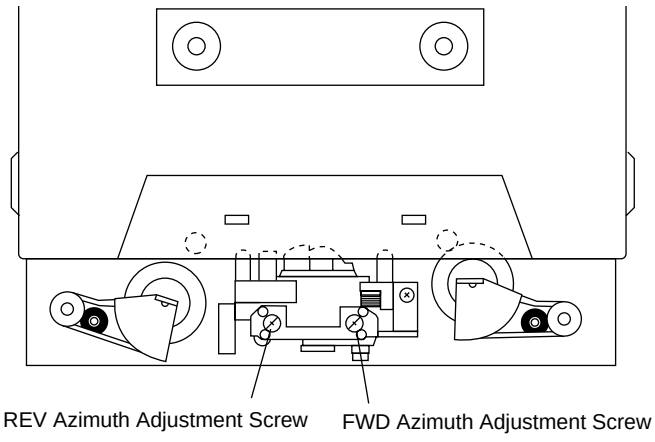


Fig. 5 Head Azimuth Adjustment Screw

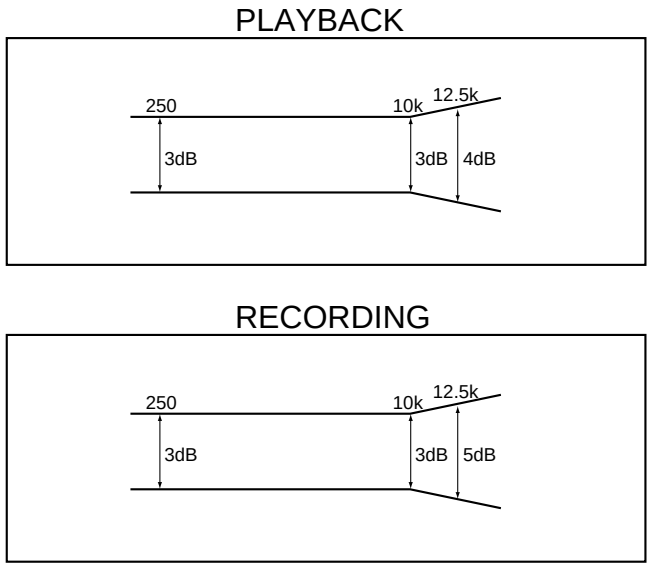


Fig. 6 Frequency Characteristics

■ 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 ± 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 Ⓐ point 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 315 Hz signal to the AUX terminal and set the input selector to AUX.	Deck II	————	TAPE TEST POINT (L, Rch) (AF Assy)	– 23.7 dBV	
			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 ± 0.5 dB from that of the 315Hz signal.	
			Deck I	VR2801 (L ch) VR2802 (R ch)			

Note : Set the 10 kHz input signal level to the same value as the 315 Hz 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 315 Hz signal to the AUX terminal and set the input selector to AUX.	Deck II	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 7.7 dBV	
			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 315 Hz signal becomes – 7.7 dBV.	
			Deck I	VR2301 (L ch) VR2302 (R ch)			

(4) ALC Operation Check

Step	Mode	Input Signal/Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	REC/ PAUSE	Input a 315 Hz 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 + 10dB above the input level at step 1.		Confirm that the reading is – 2.2 ± 2.5 dBV.	

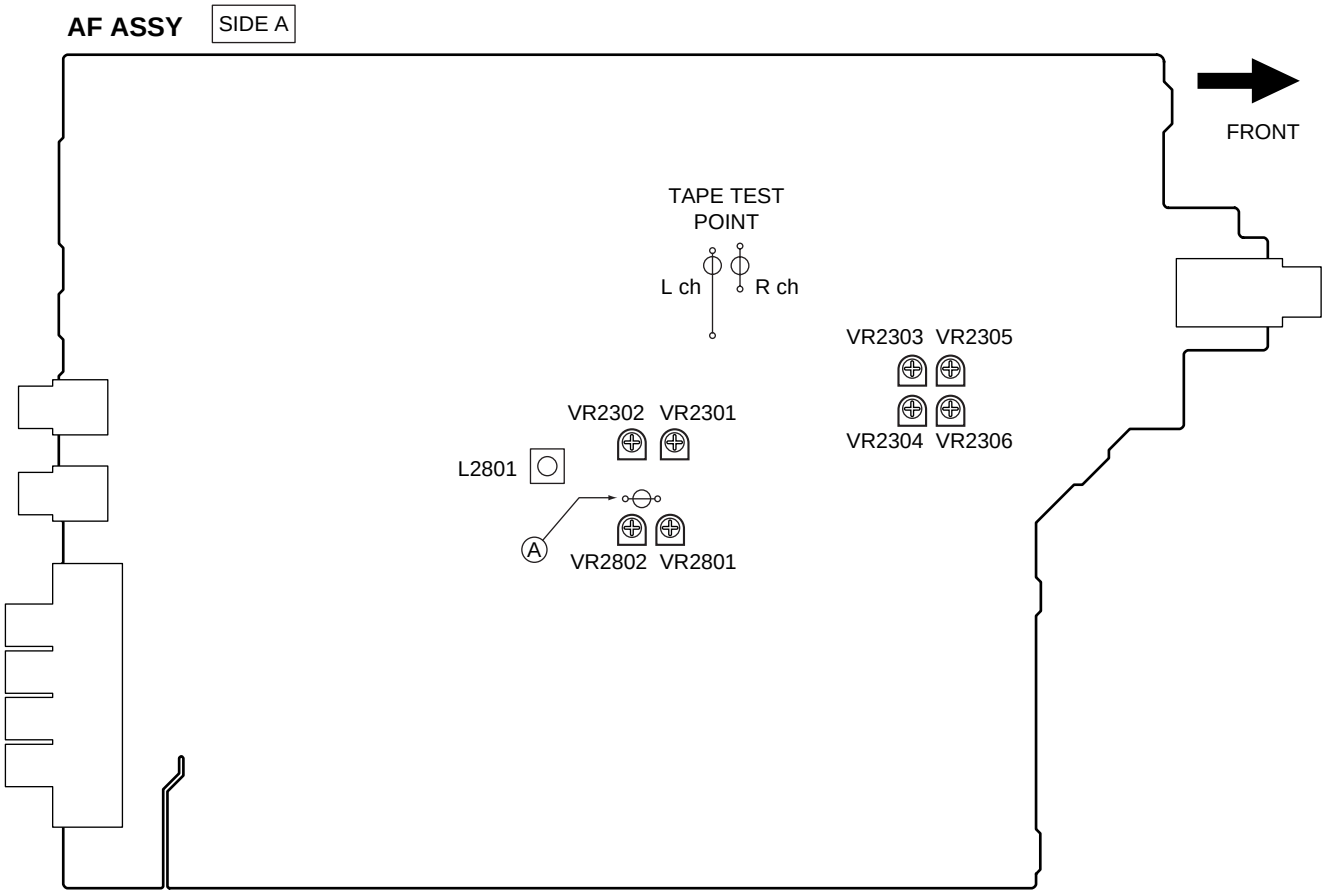


Fig.7 Adjustment and Measurement Points

6.2.2 For XR-A4800

• 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).	

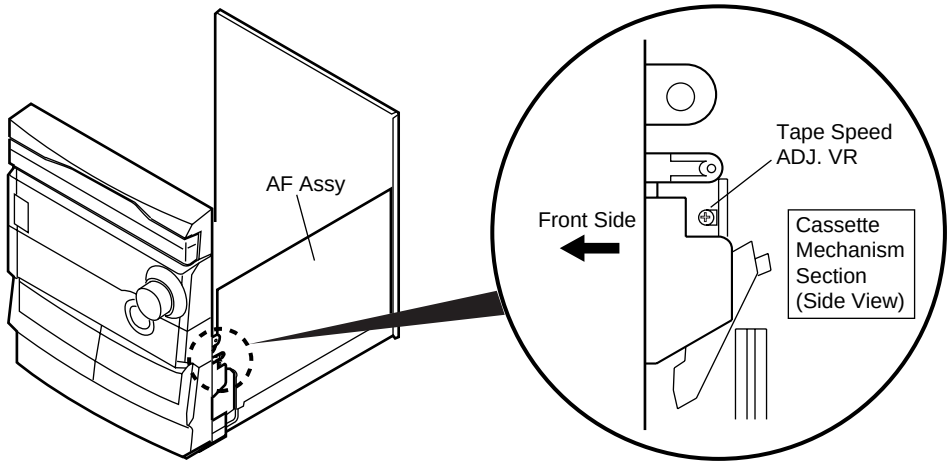


Fig.8 Tape Speed ADJ. Point

■ 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-632 : Normal blank tape
(5) Provide yourself with the following measuring devides:
• 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.

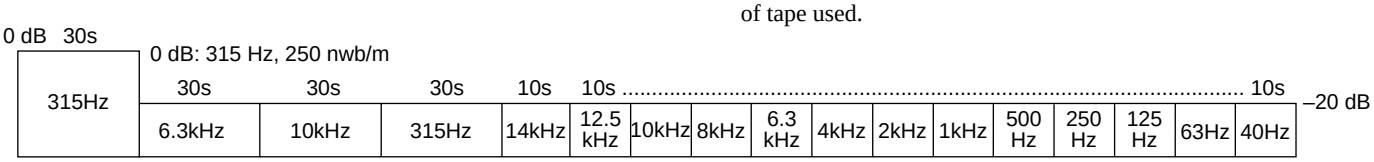


Fig.9 STD-331E Test Tape

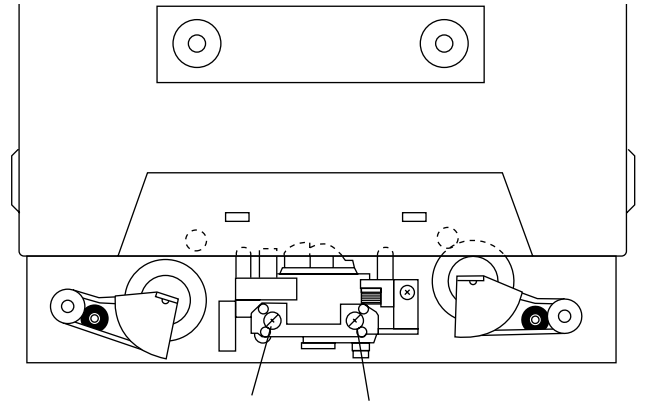


Fig.10 Head Azimuth Adjustment Screw

■ 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-632 test tape and set the recording mode.	Deck II	————	————	Oscillation frequency to be 105.0kHz ± 2kHz.	
			Deck I	L2801 (AF Assy)	Between Ⓐ point 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-632 test tape and record (No signal)	Deck I	VR2802 (AF Assy)	BIAS TP POINT (AF Assy)	24V to 27V	
2	REC → PLAY	Load the STD-632 test tape. Record the 315Hz and 10kHz signals at –25dBV input level (check Ⓑ 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.

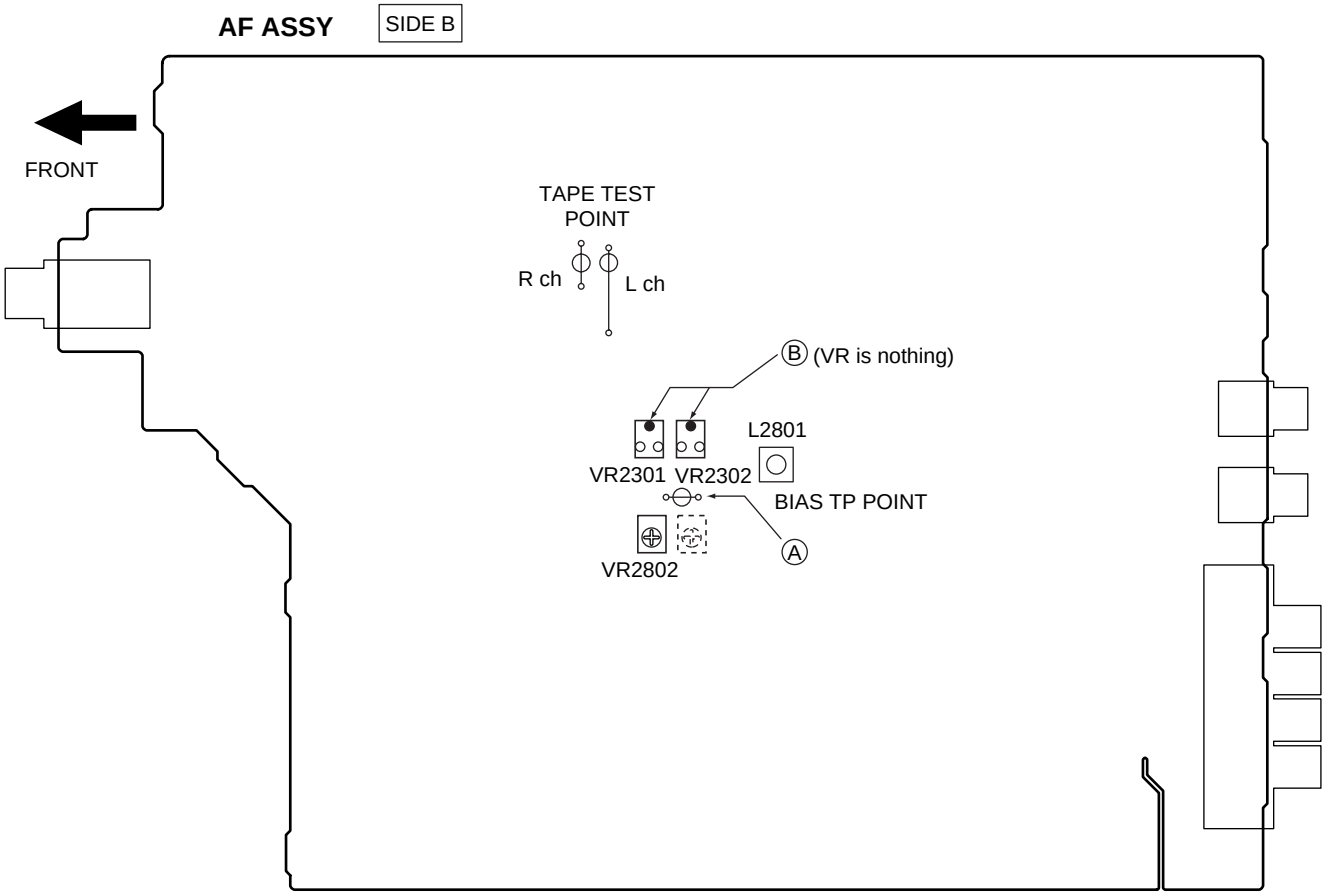


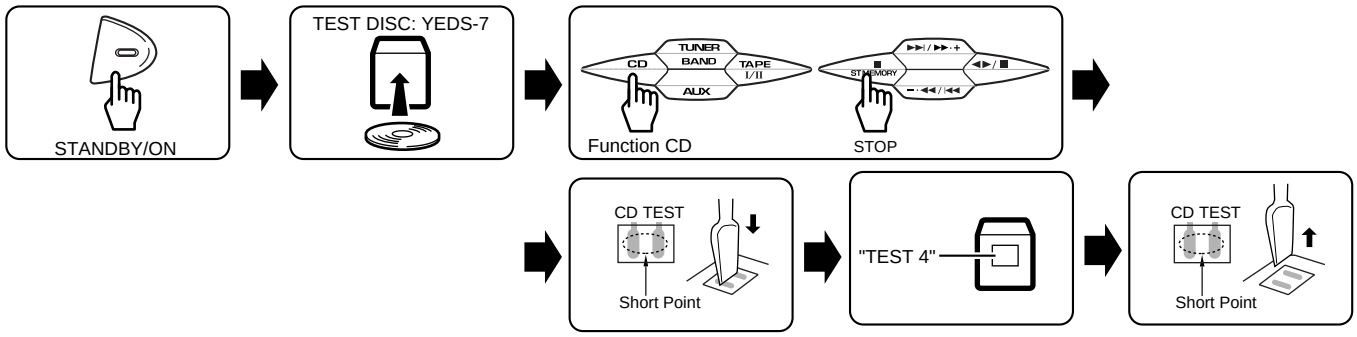
Fig.11 Adjustment and Measurement Points

6.3 TEST MODE

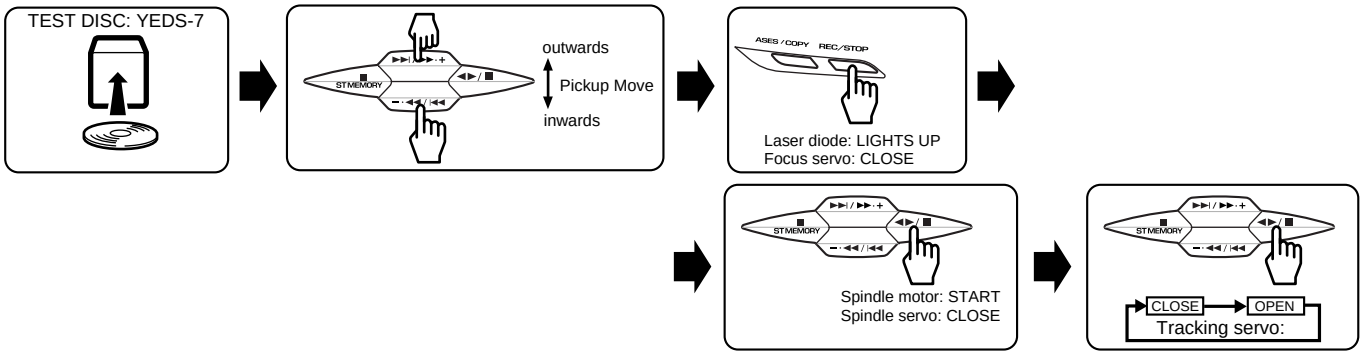
NOTE: There is no information to be shown in this CD adjustment.

■ How to Start/Cancel Test Mode

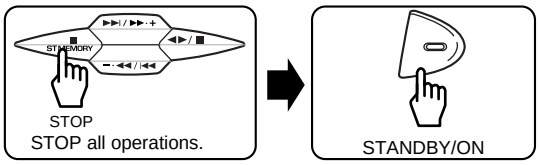
TEST MODE : ON



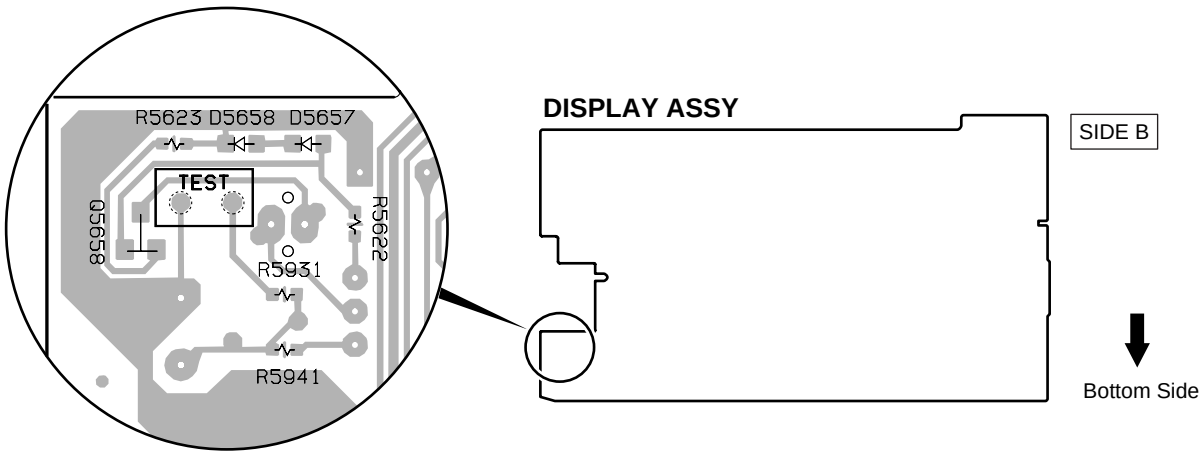
TEST MODE : PLAY



TEST MODE : STOP CANCEL



■ Test Point

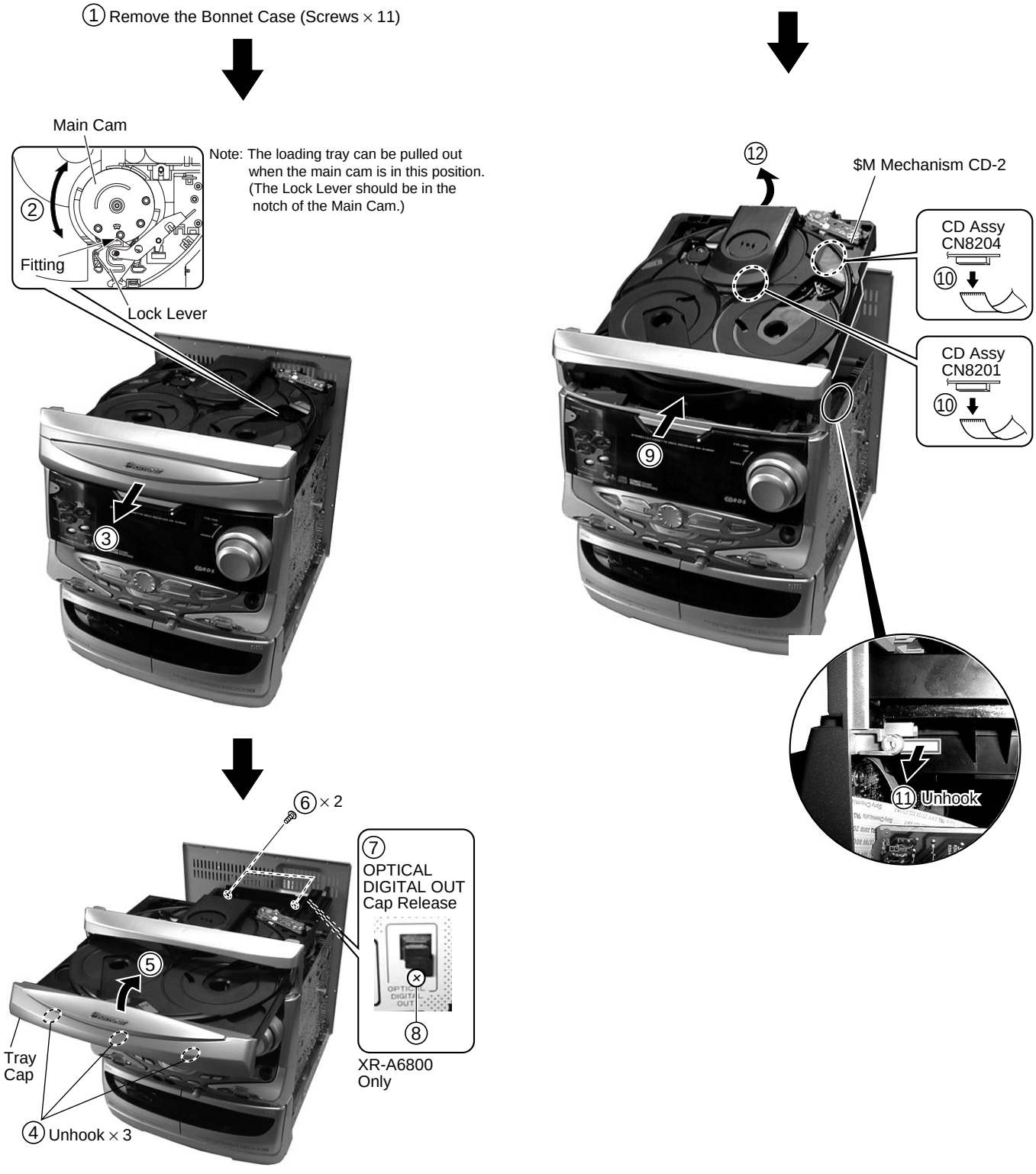


7. GENERAL INFORMATION

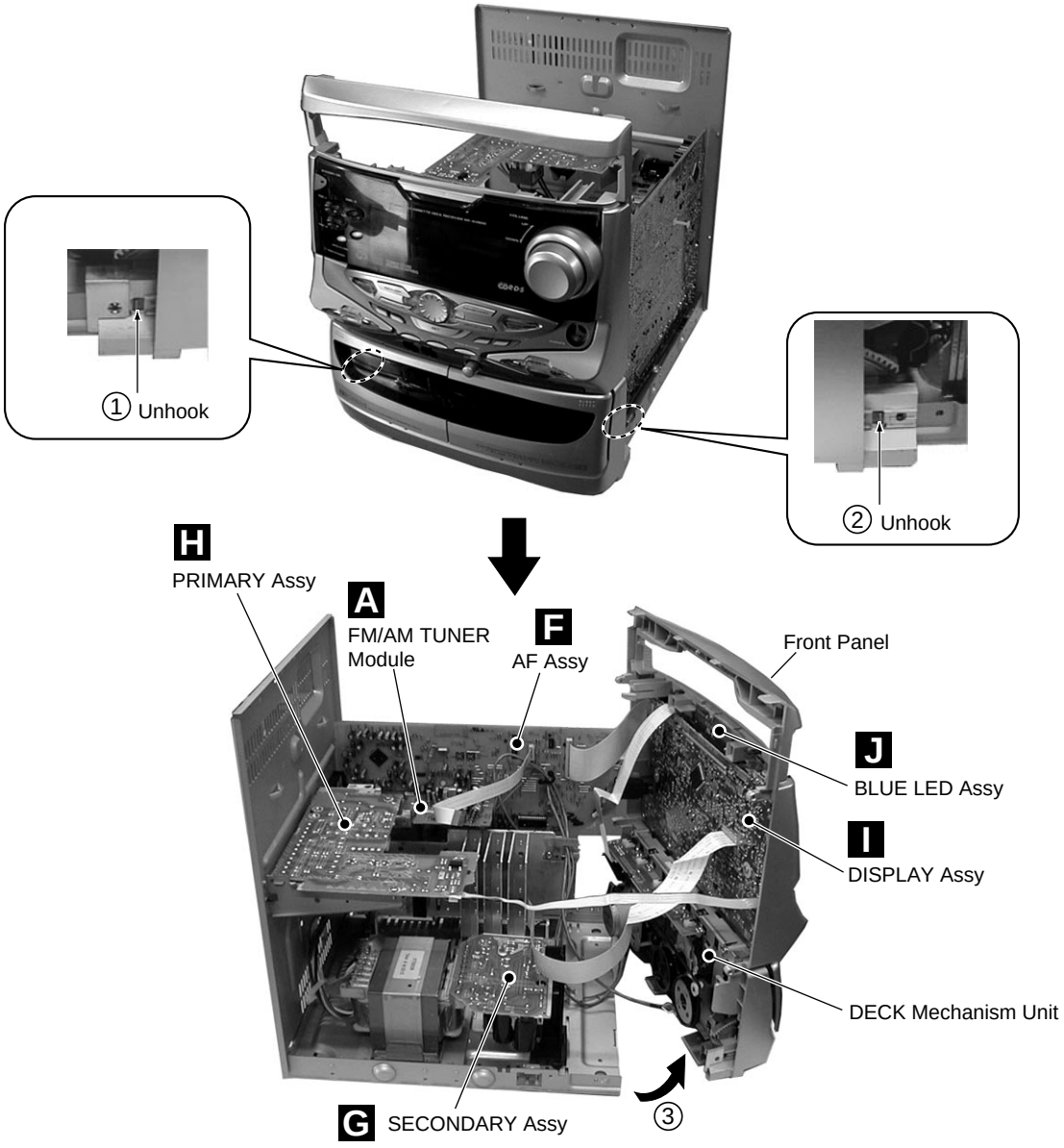
7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

■ $M MECHANISM CD-2

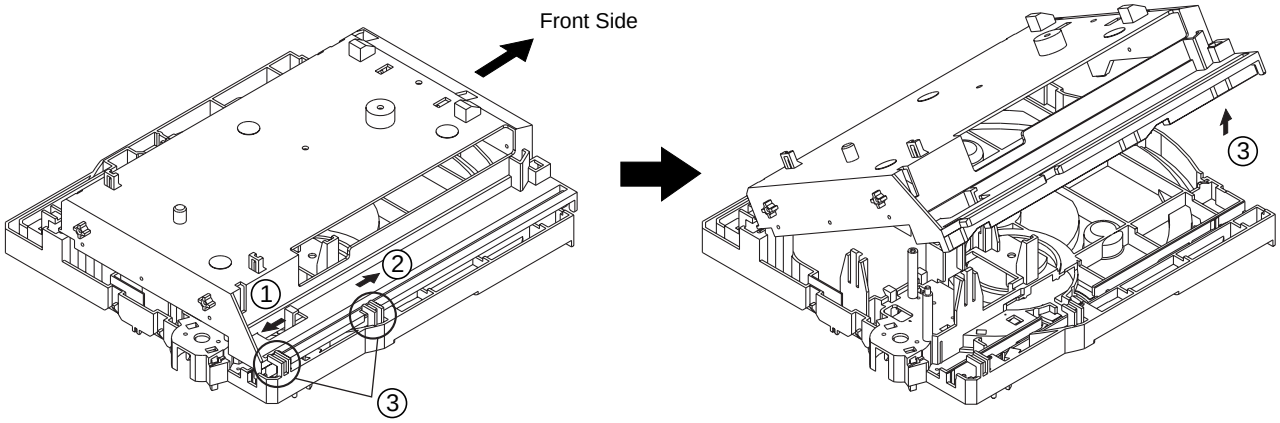


■ FRONT PANEL

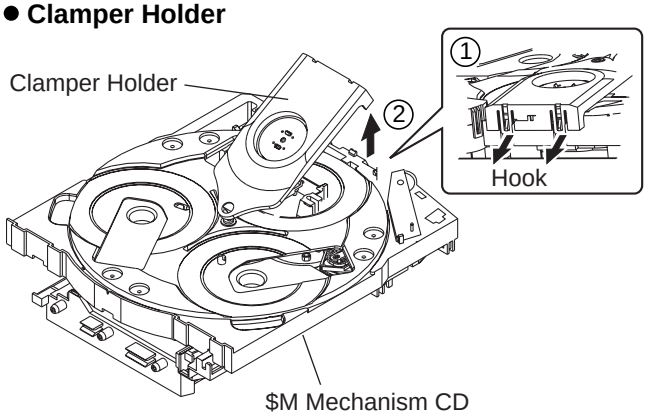


■$M MECHANISM CD-2 ADDITIONAL TO JOB

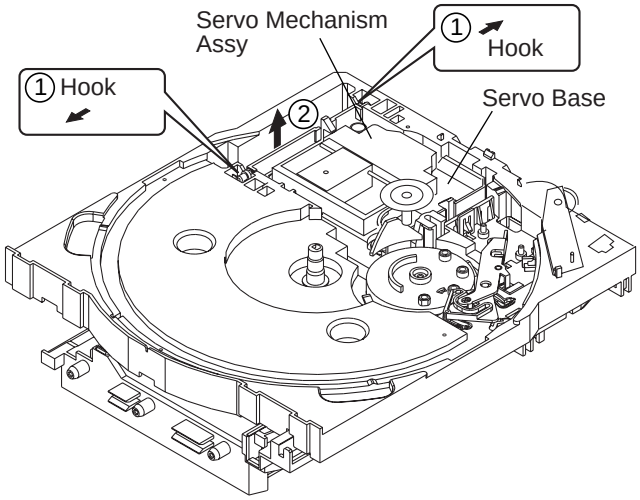
● **Mechanism Base (Bottom View)**



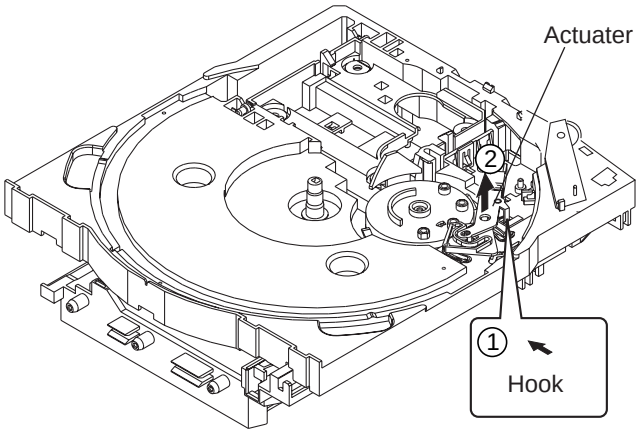
● **Clamper Holder**



● **Servo Base**

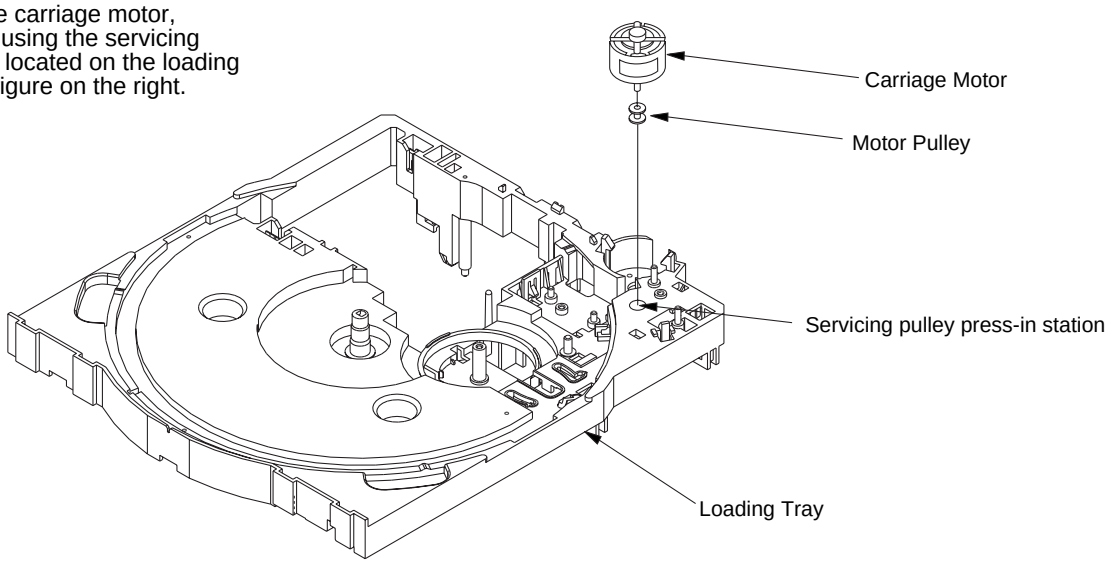


● **Actuater**



■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.



7.2 PARTS

7.2.1 IC

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

■ PDC063A (DISPLAY ASSY : IC5501)

• System Control Microcomputer IC

● Pin Function

No.	Pin Name	I/O	Function
1	CD RESET	O	Reset output for CD decoder
2	CD SE CLK	O	Clock output for CD decoder SENS data
3	CD SENS	I	CD SENS input
4	CD LAT	O	Latch output for CD decoder data
5	CD DCLK	O	Clock output for CD decoder data
6	CD DATA	O	CD decoder data output
7	A/V mode LED	O	Audio/Visual mode LED output
8	TIMER LED	O	TIMER LED output
9	RY ON/OFF	O	RELAY ON/OFF
10	BLUE LED	O	BLUE LED output
11	XRESET	I	CPU reset input
12	VOL JOG	I	Volume JOG input
13	MORF JOG	I	Sound morphing JOG input
14	VSS	–	Ground
15	CF1	I	
16	CF2	O	
17	VDD	–	Power supply
18	KEY1	I	Key input 1 (A/D)
19	KEY2		Key input 2 (A/D)
20	KEY3		Key input 3 (A/D)
21	MS	I	Deck MS input
22	ST/TUNE	I	Tuner STEREO/TUNE input
23	SPE-IN	I	Spectrum analayzer signal input
24	–	–	
25	CD MUTE	O	CD mute output (pull-up)
26	AC	I	AC pulse interrupt input
27	SCOR	I	CD SCOR interrupt input
28	RDS CLK	I	Tuner RDS clock interrupt input
29	REMOCON	I	Remote control interrupt input
30	G1	O	Grid output
31	G2		
32	G3		
33	G4		
34	G5		
35	G6		
36	G7		
37	G8		
38	G9		
39	G10		
40	G11		
41	G12		
42	G13		
43	G14		
44	G15		
45	S1	O	Segment 1 output
46	VDD	–	Power supply
47	S2/D5597	I/O	Segment 2 output/SW7 input
48	S3/D5598		Segment 3 output/SW6 input
49	S4/D5595		Segment 4 output/SW5 input
50	S5/D5594		Segment 5 output/SW4 input

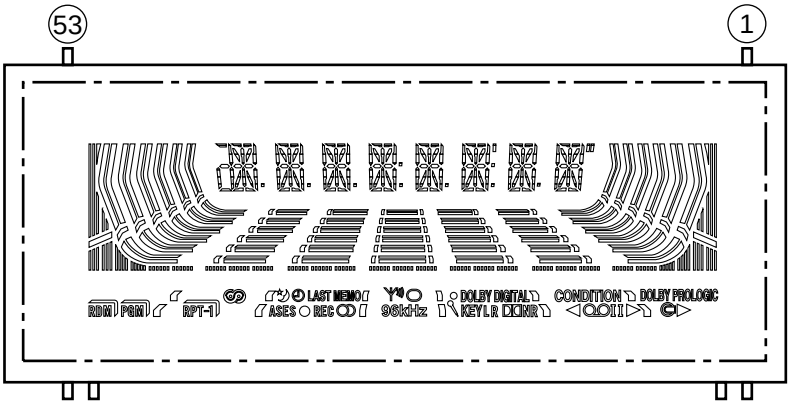
No.	Pin Name	I/O	Function
51	VFDP	–	
52	S6/D5593	I/O	Segment 6 output/SW3 input
53	S7/D5592		Segment 7 output/SW2 input
54	S8/D5591		Segment 8 output/SW1 input
55	S9	O	Segment 9 output
56	S10/CLAMP	I/O	Segment 10 output/CD CLAMP SW input
57	S11/OPEN		Segment 11 output/CD OPEN SW input
58	S12/INSIDE		Segment 12 output/CD INSIDE SW input
59	S13/CDISC123		Segment 13 output/CD DISC 123 SW input
60	S14/ARF		Segment 14 output/DECK ARF SW input
61	S15/ARR		Segment 15 output/DECK ARR SW input
62	S16/MODE1		Segment 16 output/DECK MODE SW1 input
63	S17/MODE2		Segment 17 output/DECK MODE SW2 input
64	S18/HALF1		Segment 18 output/DECK HALF SW1 input
65	S19/HALF2		Segment 19 output/DECK HALF SW2 input
66	S20/CrO2_1		Segment 20 output/DECK CrO2 SW1 input
67	S21/CrO2_2		Segment 21 output/DECK CrO2 SW2 input
68	S22	O	Segment 22 output
69	S23		Segment 23 output
70	S24		Segment 24 output
71	RDSDATA	I	Tuner RDS data input
72	VDD	–	Power supply
73	SOL2	O	DECK solenoid output 2
74	SOL1		DECK solenoid output 1
75	MOTOR	O	DECK motor output
76	CD LOAD IN	I	CD loading motor input (pull-down)
77	CD LOAD OUT	O	CD loading motor output (pull-down)
78	LED DISC3	O	DISC 3 LED output
79	LED DISC2		DISC 2 LED output
80	LED DISC1		DISC 1 LED output
81	REEL1	I	DECK reel pulse input 1
82	REEL2		DECK reel pulse input 2
83	–	–	
84	RDS MUTE	O	Mute output of Tuner RDS (pull-down)
85	PLL CE	O	Chip enable output of Tuner PLL
86	EVOL CE	O	Chip enable output of electronic volume IC
87	POWER	O	Power output
88	LINE MUTE	O	Line mute output
89	VSS	–	Ground
90	VDD	–	Power supply
91	EXP CLK	O	Clock output for EXP IC
92	EXP DATA	O	Data output for EXP IC
93	EXP CE	O	Chip enable output of EXP IC (BU4094BCF)
94	SCAN ON	O	Outputs for SW reading
95	CD SHUT	O	Crystal ON/OFF of the CD decoder
96	SQSO	I	CD subcode data input
97	CD SQCK	O	Clock output for CD subcode data
98	SYSDATA	O	Data output of the Tuner PLL data/electronic volume IC
99	TXDATA	I	Tuner data input
100	SYSCLK	O	Clock output of the Tuner PLL data/electronic volume IC

7.2.2 DISPLAY

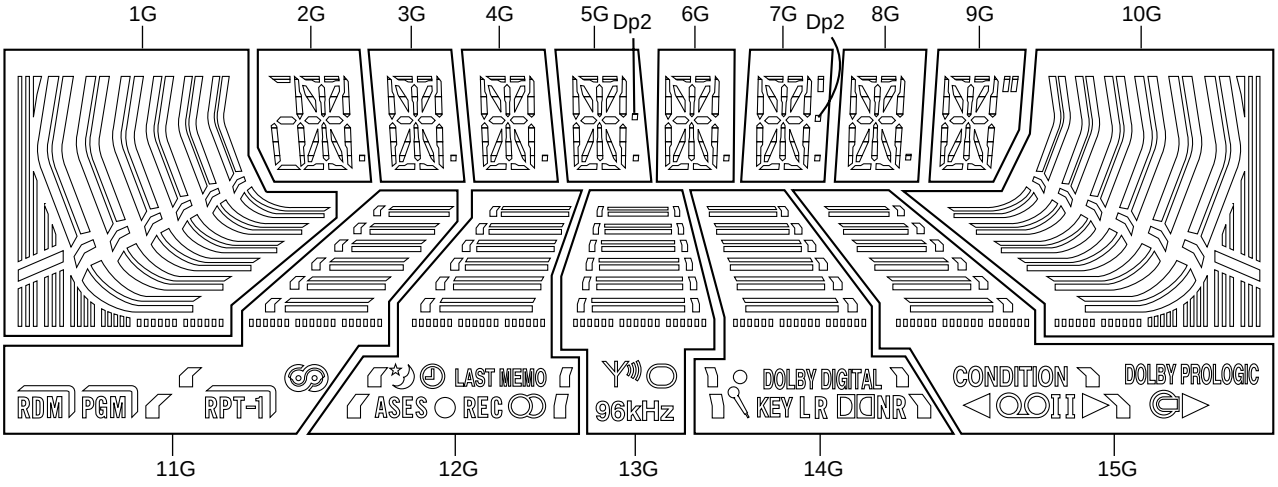
■ XAV3009 (DISPLAY ASSY :V5621)

- **FL Display**

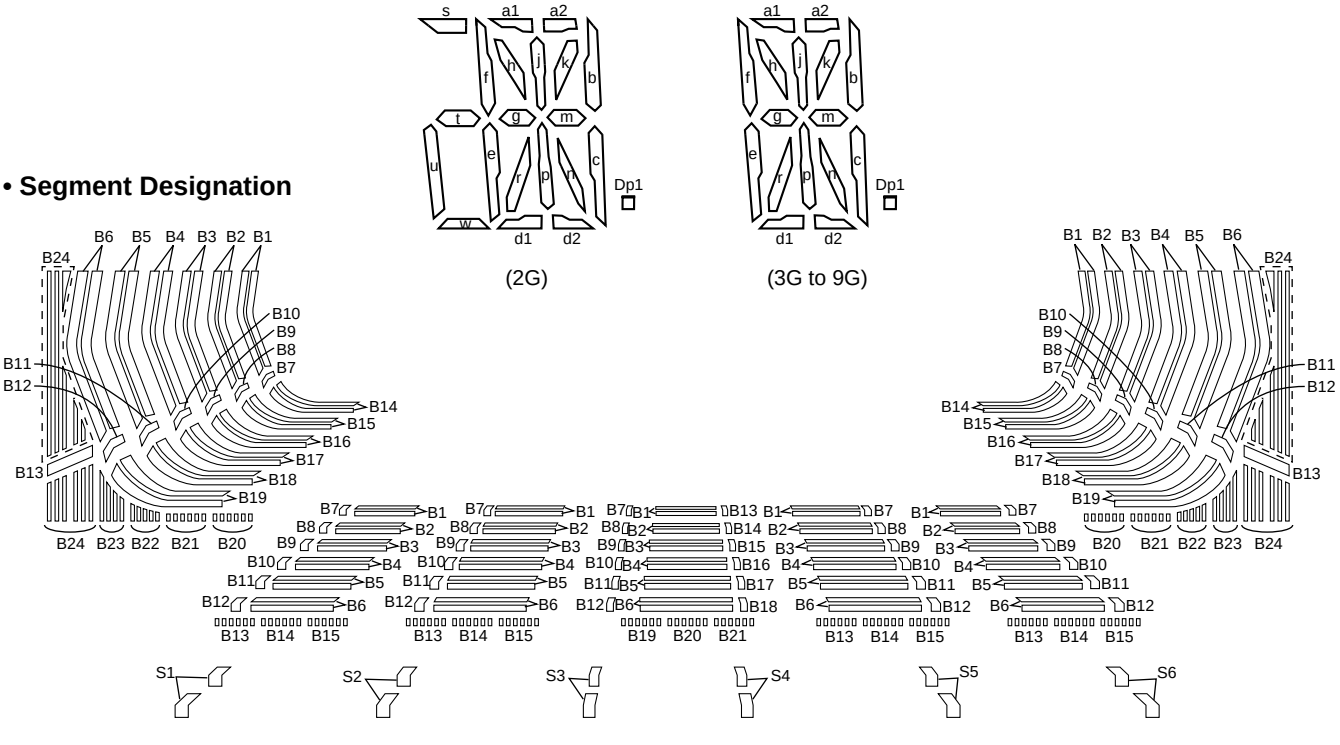
• Pin Assignment



• Grid Assignment



• Segment Designation



• 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	P1	P2	P3	P4	P5	P6	P7
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	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	NX	NX	NX	NX	NP	NP	F1	F1	F1	

NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 15G..... Grid
6) Field of vision is a minimum of 29° from the lower side.

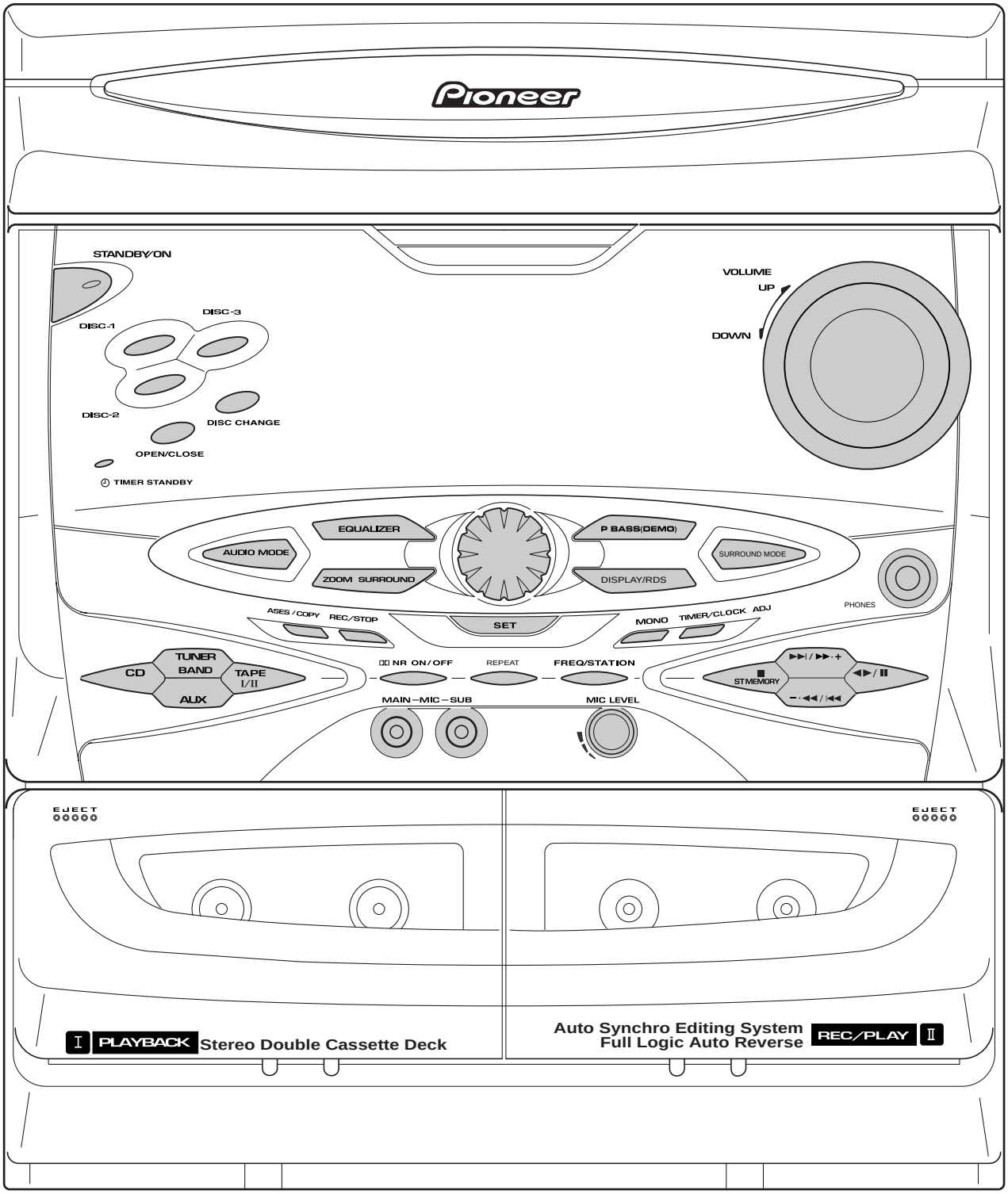
• Anode Connection

	1G	2G	3G,4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G
P1	B24	—	—	—	—	—	—	—	B24	RDM	S2	96kHz	S4	▷(RIGHT)
P2	B23	a1	a1	a1	a1	a1	a1	a1	B23		ASES			
P3	B22	a2	a2	a2	a2	a2	a2	a2	B22	PGM	○		KEY	S6
P4	B21	h	h	h	h	h	h	h	B21		REC	B21	L	▷ (LEFT)
P5	B19	j	j	j	j	j	j	j	B19	RPT	S3	B19	R	
P6	B17	k	k	k	k	k	k	k	B17			B17	DCNR	DOLBY PROLOGIC
P7	B15	b	b	b	b	b	b	b	B15	B15	B15	B15	B15	B15
P8	B14	f	f	f	f	f	f	f	B14	B14	B14	B14	B14	B14
P9	B13	g	g	g	g	g	g	g	B13	B13	B13	B13	B13	B13
P10	B6	m	m	m	m	m	m	m	B6	B6	B6	B6	B6	B6
P11	B11	c	c	c	c	c	c	c	B11	B11	B11	B11	B11	B11
P12	B10	e	e	e	e	e	e	e	B10	B10	B10	B10	B10	B10
P13	B4	r	r	r	r	r	r	r	B4	B4	B4	B4	B4	B4
P14	B9	p	p	p	p	p	p	p	B9	B9	B9	B9	B9	B9
P15	B8	n	n	n	n	n	n	n	B8	B8	B8	B8	B8	B8
P16	B2	d1	d1	d1	d1	d1	d1	d1	B2	B2	B2	B2	B2	B2
P17	B3	d2	d2	d2	d2	d2	d2	d2	B3	B3	B3	B3	B3	B3
P18	B12	dp1	dp1	dp1	dp1	dp1	dp1	—	B12	B12	B12	B12	B12	B12
P19	B18	—	—	dp2	—	dp2	—	—	B18	-1		B18	DOLBY DIGITAL	◁
P20	B20	—	—	—	—		—		B20	S1		B20	○	
P21	B16	s	—	—	—	—	—	—	B16		LAST MEMO	B16	S5	CONDITION
P22	B5	t	—	—	—	—	—	—	B5	B5	B5	B5	B5	B5
P23	B1	u	—	—	—	—	—	—	B1	B1	B1	B1	B1	B1
P24	B7	w	—	—	—	—	—	—	B7	B7	B7	B7	B7	B7

8. PANEL FACILITIES AND SPECIFICATIONS

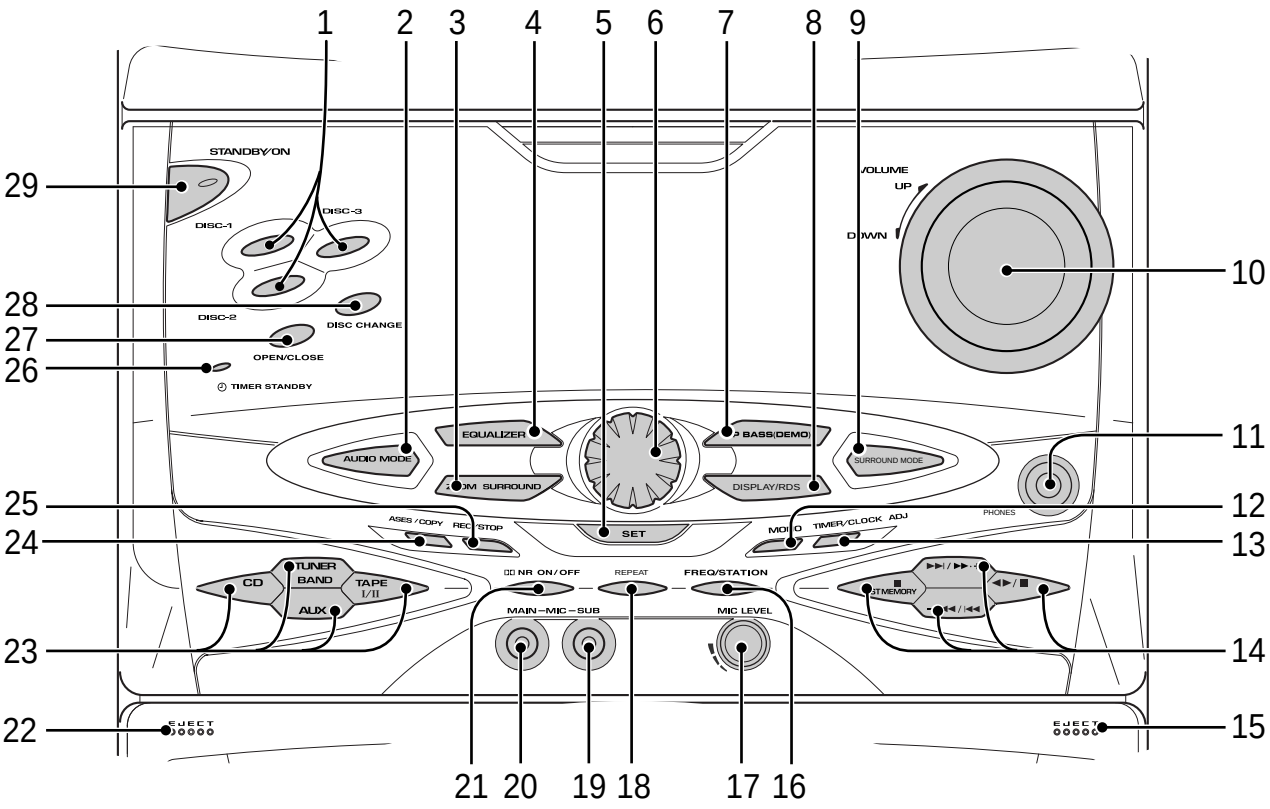
8.1 PANEL FACILITIES

Front Panel



The illustration on this page shows the XR-A6800.
Not all features are available on the XR-A4800.

model: XR-A6800



1 DISC-1/2/3
2 AUDIO MODE
3 ZOOM SURROUND
4 EQUALIZER
5 SET
Use to enter timer/clock settings, or user sound settings.
6 JOG dial
Use to morph between sound settings, and when setting the clock or timer.
7 P.BASS (DEMO)
8 DISPLAY/RDS
9 SURROUND MODE
10 VOLUME UP/DOWN
Use to adjust the overall volume.
11 PHONES jack (Headphones)
Plug in a pair of headphones to this jack.
12 MONO
13 TIMER / CLOCK ADJ
14 Playback/tuning controls
■ ST. MEMORY
►►I/►►·+
–·◄◄/I◄◄
◄►/II
15 EJECT (tape II)
Press to open the cassette door of deck II.
16 FREQ / STATION
17 MIC LEVEL
18 REPEAT
19 MIC SUB
20 MIC MAIN
21 XR-A6800 : □□ NR* ON/OFF
XR-A4800 : RANDOM

22 EJECT (tape I)
Press to open the cassette door of deck I.

23 Function select buttons
CD
TUNER BAND
AUX
TAPE I/II

24 ASES / COPY

25 REC / STOP

26 TIMER STANDBY indicator

27 OPEN/CLOSE

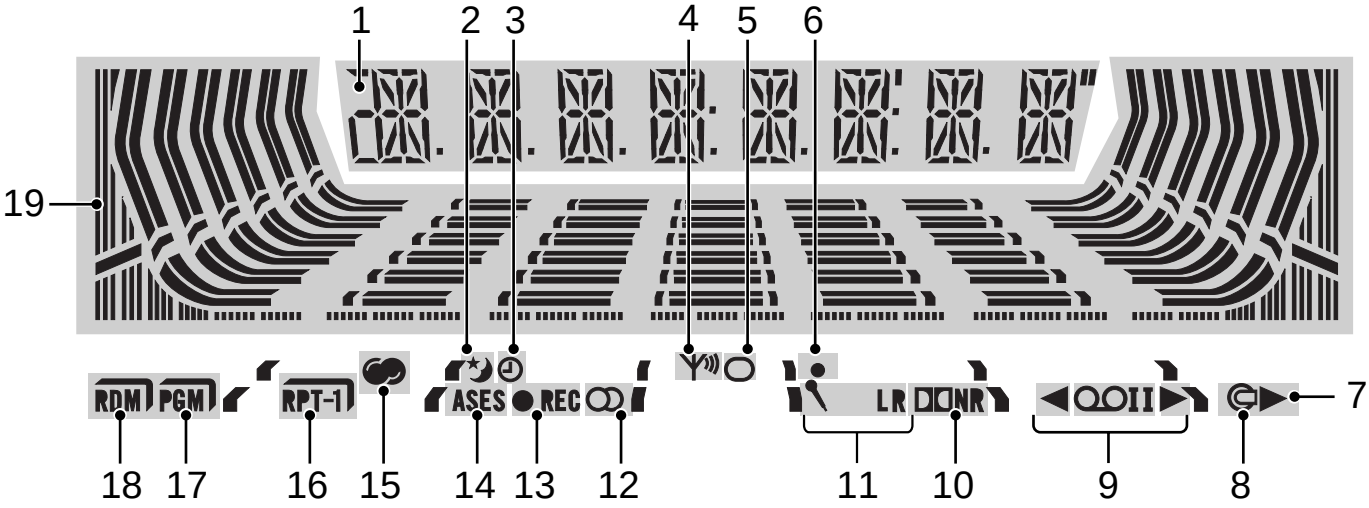
28 DISC CHANGE

29 STANDBY/ON and standby indicator
Press to switch the unit between standby and on. Indicator lights in standby.

* Manufactured under licence from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

Display

The illustration on this page shows the XR-A6800. Not all features are available on the XR-A4800.



1 Character display
2 Lights when the sleep timer has been set.
3 Lights when either the record timer or the wake up timer has been set.
4 Lights when the tuner is receiving a broadcast.
5 Lights when the tuner is set to mono FM mode.
6 Lights when in beat cut 2 mode. (XR-A6800 model only)
7 Lights when a CD is playing.
8 Lights when the system is in CD mode.
9 ◄ and ► – Indicates the current tape play/record direction.
I or II – Indicates the current tape deck, I or II.
10 Lights when Dolby Noise Reduction is switched on. (XR-A6800 model only)
11 – Lights when in the karaoke mode.
L R – Indicates which channels of the karaoke track you’re hearing.
12 Lights when the tuner is receiving a stereo FM broadcast in auto stereo mode.
13 Lights when recording to tape.
14 Lights during automatic recording of a CD.
15 Lights in RDS mode.
16 Highlights during repeat play mode.
17 Highlights during program playback mode.
18 Highlights during random playback mode.
19 Sound morphing / sound level display

Remote Control Unit

To learn about the function of a particular button, look up the name of the button in the following alphabetical list (buttons marked with symbols appear first).

⏻
Press to switch the system on or into standby.

■ (Stop)

◄►/II (Play/pause/reverse)

◄◄ (Reverse scan/fast rewind/radio tuning)

►► (Forward scan/fast forward/radio tuning)

– I◄◄ (Reverse track skip/music search/preset station select)

►►I **+** (Forward track skip/music search/preset station select)

>10
Use to select numbers over 10 (press this button, then input the number using the other number buttons).

10/0
Use as zero or 10 when entering numbers (for track numbers and station presets).

1–9
Number buttons (for track numbers and station presets).

A AUDIO/SURROUND
AUX

C CD
CLEAR
Press to delete the most recently programmed track.

D DISC-1/2/3
DISC CHANGE
DISPLAY

J JOG
Use to morph between sound settings, and when setting the clock or timer.

K KARAOKE

M MONO (SHIFT & 7)
MORPHING
MUTE

O OPEN/CLOSE

P PROGRAM

R RANDOM (SHIFT & 9)
REPEAT (SHIFT & 8)

S SHIFT
Use to access secondary functions on the remote control.
SLEEP

T TAPE I/II
TUNER/BAND

V VOLUME +/–
Use to adjust the overall volume level.

8.2 SPECIFICATIONS

Amplifier section

Continuous Power Output

RMS (1 kHz, T.H.D. 10%, 6 Ω)
- XR-A6800 ..... 140 W + 140 W
- XR-A4800 ..... 100 W + 100 W

DIN (1 kHz, T.H.D. 1%, 6 Ω)
- XR-A6800 ..... 85 W + 85 W
- XR-A4800 ..... 65 W + 65 W

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

Maximun Power

- XR-A6800 ..... 220 W + 220 W
- XR-A4800 ..... 146 W + 146 W

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

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
Recording/playback head x 1
Playback head x 1
Erase head x 1
Motor ..... DC servo motor x 1
Tape types
- XR-A6800 ..... TYPE I (Normal) tape
  TYPE II (HIGH/CrO_2) tape
- XR-A4800 ..... TYPE I (Normal) tape

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 1,602 kHz
- With 10 kHz step ..... 530 kHz to 1,700 kHz

Antenna input ..... Loop antenna

Miscellaneous

Power Requirements ..... AC 220-230 V, 50/60 Hz
AC 230 V, 50/60 Hz (U.K. models)
Power Consumption
- XR-A6800 ..... 150 W
- XR-A4800 ..... 120 W

Power Consumption in Standby mode ..... 1 W
Dimensions ..... 270 (W) x 320 (H) x 339 (D) mm
Weight (without package)
- XR-A6800 ..... 8.8 kg
- XR-A4800 ..... 8.3 kg

Accessories

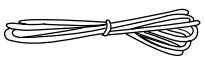
Operating instructions 1
Remote control unit 1
Power Cord 1
FM antenna 1
AM loop antenna 1
AA/R6P dry cell batteries 2
Speaker Cord — S-A6800 only 2

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

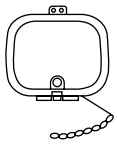
■ Accessories

① Remote Control Unit × 1

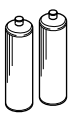
② FM Antenna × 1
(MYXJ and NVXJ Types : ADH7005)



③ AM Loop Antenna × 1
(XTB3001)



④ AA/R6P Dry Cell Batteries × 2
(VEM-013)



⑤ Power Cord × 1
(MYXJ Type : ADG1154)
(NVXJ Type : ADG1156)