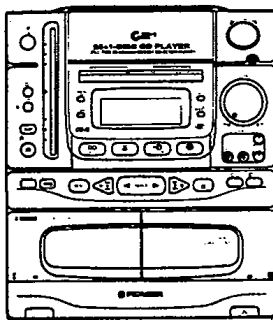


Service Manual

PIONEER®
The Art of Entertainment



ORDER NO.
RRV1429

STEREO FILE-TYPE CD CASSETTE DECK RECEIVER

XR-P760F

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
	XR-P760F		
KU	○	AC120V	_____
KC	○	AC120V	_____
DD	○	AC110-127V/220-230V/240V	With the voltage selector
DL	○	AC110-120V/220-230V/240V	With the voltage selector
YPW	○	AC240V	_____

- For the circuit and mechanism descriptions, refer to the service guide RRV1430 for XR-P760F.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.

PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium

PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

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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.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

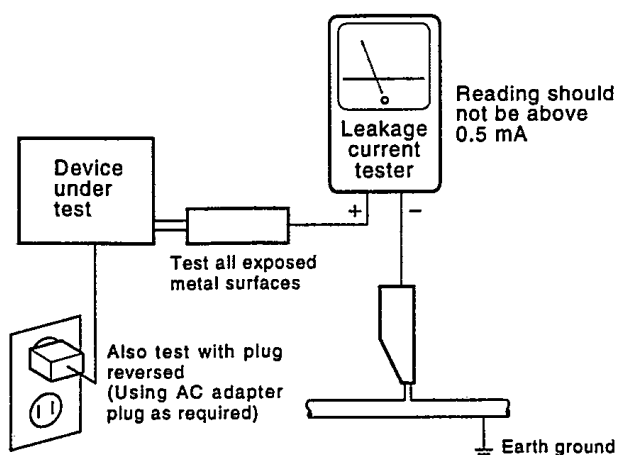
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

(FOR EUROPEAN MODEL ONLY)

VARO!

AVATTAESSA JA SUOJALUKITUS
OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
ÄLÄ KATSO SÄTEESEEN.



LASER
Kuva 1
Lasersäteilyn
varoituserkki

ADVERSEL:

USYNLIG LASERSTRÅLING VED ÅBNING
NÅR SIKKERHEDSAFBRYDERE ER UDE
AF FUNKTION UNDGA UDSAETTELSE
FOR STRÅLING.

VARNING!

OSYNLIG LASERSTRÅLNING NÅR DENNA
DEL ÄR ÖPPNAD OCH SPÄRREN
ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

WARNING!

DEVICE INCLUDES LASER DIODE WHICH
EMITS INVISIBLE INFRARED RADIATION
WHICH IS DANGEROUS TO EYES. THERE IS
A WARNING SIGN ACCORDING TO PICTURE
1 INSIDE THE DEVICE CLOSE TO THE LASER
DIODE.



LASER
Picture 1
Warning sign for
laser radiation

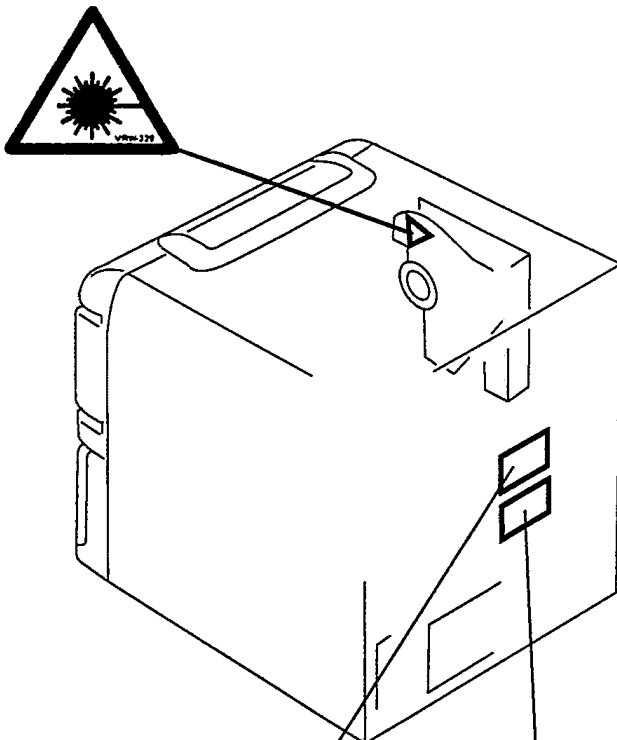
IMPORTANT

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

LASER DIODE CHARACTERISTICS

MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780 - 785 nm

LABEL CHECK (for DL and YPW types)



CLASS 1
LASER PRODUCT
VRW-328

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

Additional Laser Caution

1. Laser Interlock Mechanism

The position of the switch (S651) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S651) is not on CLMP terminal side (CLMP signal is OFF or high level.) Thus, the interlock will no longer function if the switch (S651) is deliberately set to CLMP terminal side. (low level)

The interlock also does not function in the test mode*. Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the PRE-AMP BOARD ASSY mounted on the pickup assembly is connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q101 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 74.

2. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The $\frac{1}{2}$ 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.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

2.1 PACKING

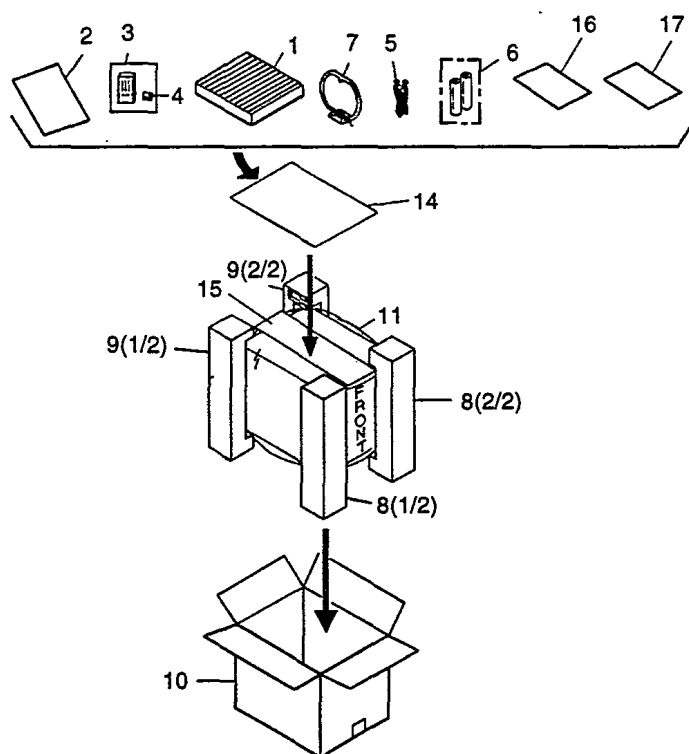
■ Contrast of XR-P760F/KU, KC, DD, DL and YPW

XR-P760F/KU, KC, DD, DL and YPW have the same construction except for the following:

Mark	No.	Description	Part No.					Remarks
			KU type	KC type	DD type	DL type	YPW type	
NSP	2	Operating instructions (English)	ARB7071	ARB7071	Not used	Not used	ARB7071	
	5	FM antenna	ADH1017	ADH1017	ADH1016	ADH1016	ADH1016	
	10	Packing case	AHD7230	AHD7230	AHD7232	AHD7232	AHD7289	
	14	Poly. bag	DHL1097	Not used	Not used	Not used	Not used	
	14	Poly. bag	Not used	Z21-040	Z21-040	Z21-040	Z21-040	
	16	Operating instructions (French)	Not used	ARC7116	Not used	Not used	Not used	
	17	Operating instructions (English, Spanish, Chinese)	Not used	Not used	ARC7112	ARC7112	Not used	

■ Parts List for XR-P760F/KU

Mark	No.	Description	Parts No.
	1	CD CASE RACK	AMR7066
	2	OPERATING INSTRUCTIONS (English)	ARB7071
	3	REMOTE CONTROL UNIT (CU-XR020)	AXD7068
	4	BATTERY COVER	AZA7050
	5	FM ANTENNA	ADH1017
	6	BATTERY (R03, AAA)	VEM-022
	7	LOOP ANTENNA	ATB7004
	8	FRONT PAD LR	AHA7094
	9	REAR PAD LR	AHA7095
	10	PACKING CASE	AHD7230
	11	PACKING SHEET	AHG7003
	12	.....	
	13	.....	
	14	POLY. BAG	DHL1097
	15	CAUTION CARTON	AHD7285



2.2 EXTERIOR

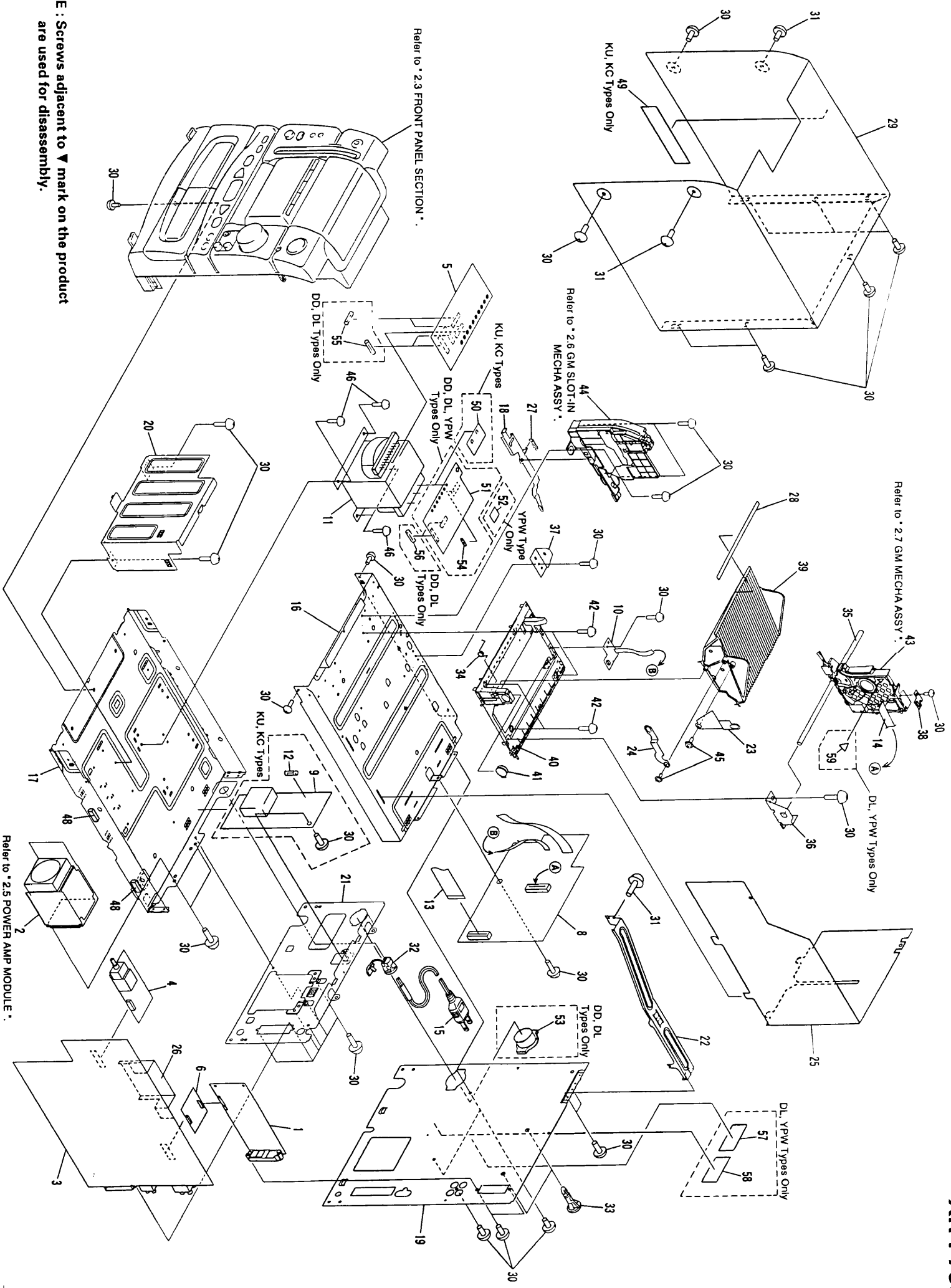
■ Contrast of XR-P760F/KU, KC, DD, DL and YPW

XR-P760F/KU, KC, DD, DL and YPW have the same construction except for the following:

Mark	No.	Description	Part No.					Remarks
			KU type	KC type	DD type	DL type	YPW type	
NSP	3	AF assy	AWZ7886	AWZ7886	AWZ7846	AWZ7846	AWZ7846	
	4	VOL assy	AWZ7858	AWZ7858	AWZ7856	AWZ7856	AWZ7856	
	5	SECONDARY assy	AWZ7864	AWZ7864	AWZ7863	AWZ7863	AWZ7864	
	9	SUB TRANS assy	AWZ7908	AWZ7908	Not used	Not used	Not used	
	11	Power transformer (T)	ATS7087	ATS7087	ATS7089	ATS7089	ATS7089	
△	12	Fuse (6.3A, FU4)	VEK1026	VEK1026	Not used	Not used	Not used	
△	15	AC power cord	PDG1015	PDG1015	PDG1013	ADG1131	ADG1123	
	19	Rear panel	ANC7284	ANC7284	ANC7286	ANC7287	ANC7392	
	32	Strain relief	CM-22C	CM-22C	CM-22B	CM-22B	CM-22B	
NSP	49	65 label	ORW1069	ORW1069	Not used	Not used	Not used	
	50	KUC assy	AWZ7909	AWZ7909	Not used	Not used	Not used	
	51	PRIMARY assy	Not used	Not used	AWZ7899	AWZ7899	AWZ7900	
	52	YPW assy	Not used	Not used	Not used	Not used	AWZ7916	
△	53	Voltage selector	Not used	Not used	AKX7002	AKX7002	Not used	
△	54	Fuse (5A, FU1)	Not used	Not used	REK-107	REK-107	REK-107	
△	55	Fuse (T2A, FU5-FU8)	Not used	Not used	AEK1057	AEK1057	Not used	
△	56	Fuse (2.5A, FU2, FU3)	Not used	Not used	REK-104	REK-104	Not used	
	57	Caution label	Not used	Not used	Not used	PRW1018	PRW1018	
NSP	58	Caution label (F)	Not used	Not used	Not used	VRW-328	VRW-328	
	59	Caution label (G)	Not used	Not used	Not used	VRW-329	VRW-329	

■ Parts List for XR-P760F/KU

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FM/AM TUNER MODULE	AXQ1012		26	PCB COVER	AAK7247
	2	POWER AMP MODULE	AXQ7017		27	LEVER SPRING S	ABH7067
	3	AF ASSY	AWZ7886		28	DISC RACK PLATE	AAK7251
	4	VOL ASSY	AWZ7858		29	BONNET CASE	ANE7107
	5	SECONDARY ASSY	AWZ7864		30	SCREW	BBZ30P080FZK
NSP	6	TX CONNECT ASSY	AWZ8176		31	SCREW	VPZ30P100FZK
	7	.....			32	STRAIN RELIEF	CM-22C
	8	CD ASSY	AWZ7889	NSP	33	SPACER	VEC1596
NSP	9	SUB TRANS ASSY	AWZ7908		34	RACK SPRING	ABH7057
NSP	10	HOME SW ASSY	AWZ7917		35	GUIDE SHAFT S	ALA7008
△	11	POWER TRANSFORMER (T)	ATS7087		36	SHAFT HOLDER	ANB7021
△	12	FUSE (6.3A, FU4)	VEK1026		37	SHAFT HOLDER S	ANB7024
	13	19P F.F.C /30V	ADD7009		38	ANGLE	ANB7043
	14	22P F.F.C /30V	ADD7016		39	DISC RACK	ANW7069
△	15	AC POWER CORD	PDG1015		40	RACK BASE S	ANW7070
NSP	16	SUB CHASSIS	ANA7029		41	DAMPER ASSY	AXA7018
	17	CHASSIS	ANA7030		42	SCREW	PBA1085
	18	EJECT LEVER S	ANB7029	NSP	43	GM MECHA ASSY	AXA7026
	19	REAR PANEL	ANC7284	NSP	44	GM SLOT-IN MECHA ASSY	AXA7027
	20	FRONT STAY	AND7006		45	SCREW	IBZ30P080FMC
	21	REAR STAY	AND7007		46	SCREW	BBZ40P080FZK
	22	HOME LOCK STAY	AND7008		47	.....	
	23	LINK BRACKET A	ANG7065		48	SIDE ROLLER RUBBER	DEB1043
	24	LINK BRACKET B	ANG7066		49	65 LABEL	ORW1069
	25	COVER	AAK7246	NSP	50	KUC ASSY	AWZ7909



NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.

2.3 FRONT PANEL SECTION

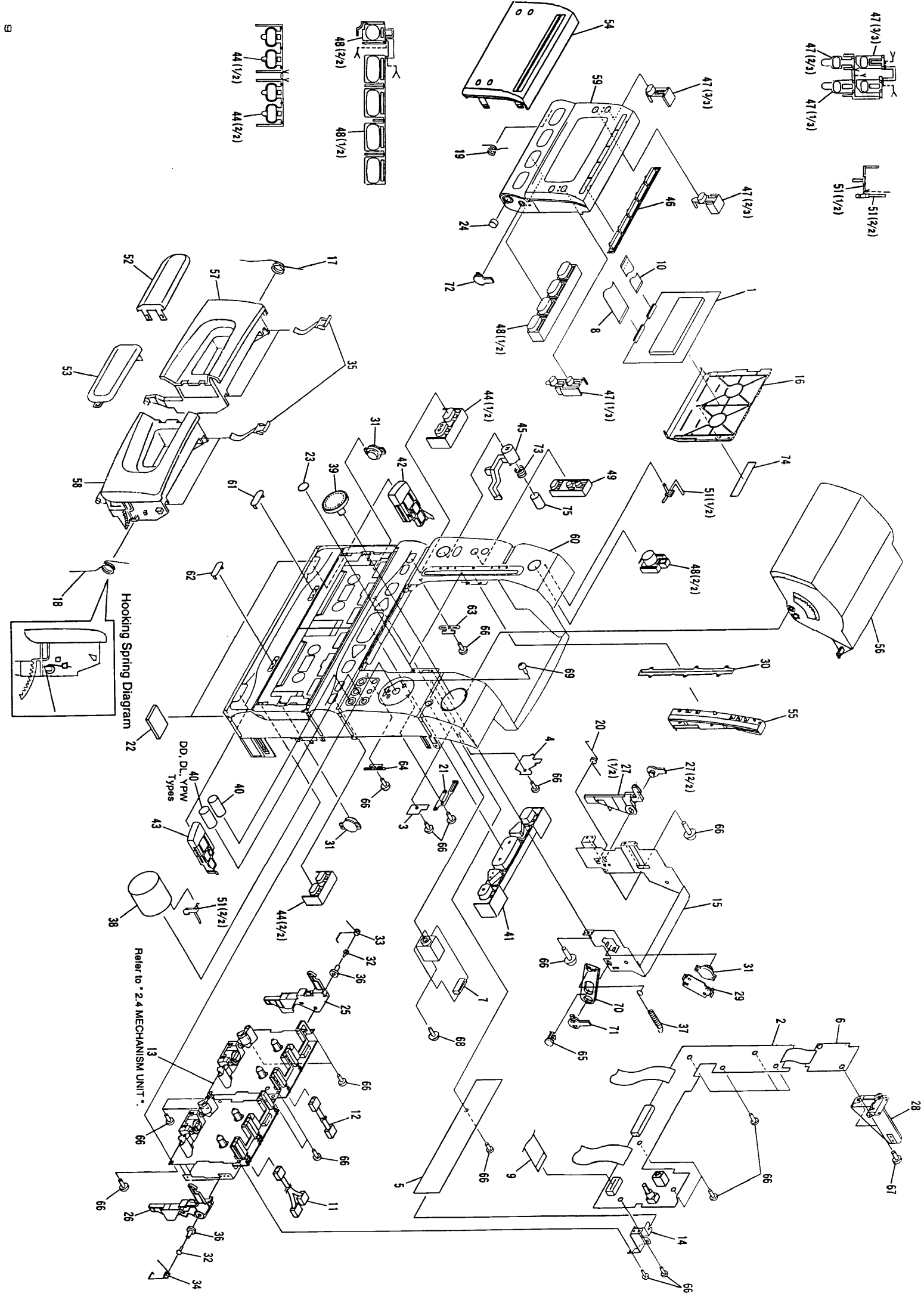
■ Contrast of XR-P760F/KU, KC, DD, DL and YPW

XR-P760F/KU, KC, DD, DL and YPW have the same construction except for the following:

Mark	No.	Description	Part No.					Remarks
			KU type	KC type	DD type	DL type	YPW type	
	1	DISPLAY assy	AWZ7869	AWZ7869	AWZ7871	AWZ7871	AWZ7871	
	2	OPERATION-A assy	AWZ7879	AWZ7879	AWZ7881	AWZ7881	AWZ7881	
	60	Front panel	AMB7289	AMB7289	AMB7291	AMB7291	AMB7291	

■ Parts List for XR-P760F/KU

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	DISPLAY ASSY	AWZ7869	41	BUTTON ASSY A	AAD7220	
	2	OPERATION-A ASSY	AWZ7879	42	EJECT BUTTON S (L)	AAD7221	
	3	DOOR SW ASSY	AWZ7887	43	EJECT BUTTON S (R)	AAD7222	
	4	JOG ASSY	AWZ7888	44	BUTTON ASSY B	AAD7225	
	5	DECK RELAY ASSY	AWZ7902	45	OPEN BUTTON S	AAD7226	
NSP	6	OPERATION-B ASSY	AWZ7911	46	GENRE BUTTON	AAD7227	
	7	HEADPHONE ASSY	AWZ7913	47	TIMER BUTTON	AAD7228	
	8	31P F.F.C /60V	ADD7006	48	FUNCTION BUTTON S	AAD7234	
	9	17P F.F.C /30V	ADD7007	49	P. BASS BUTTON	AAD7230	
	10	27P F.F.C /30V	ADD7008	50	.....		
	11	CONNECTOR ASSY 5P	RKP1582	51	STA. LENS	AAK7099	
	12	CONNECTOR ASSY 3P	RKP1583	52	DECK WINDOW L	AAK7197	
	13	MECHANISM UNIT	RYM1248	53	DECK WINDOW R	AAK7198	
	14	EARTH BRACKET	ANG7067	54	AMP WINDOW	AAK7215	
	15	SUB PANEL	ANG7069	55	STAR LIGHT LENS	AAK7200	
	16	REAR PLATE	AAK7203	56	FOOD	AAN7089	
	17	DOOR SPRING L	ABH7080	57	CASSETTE DOOR L	AAN7097	
	18	DOOR SPRING R	ABH7081	58	CASSETTE DOOR R	AAN7098	
	19	CD DOOR SPRING	ABH7082	59	DOOR PANEL	AAN7099	
	20	EJ ARM SPRING	ABH7083	60	FRONT PANEL	AMB7289	
	21	DOOR SWITCH SPRING	ABK7004	61	MOLD L	AMR7077	
	22	RUBBER PLATE	AEB1111	62	MOLD R	AMR7078	
	23	CUSHION RUBBER	AEB7037	63	SHAFT HOLDER L	AMR7079	
	24	DOOR SPACER	AEB7039	64	SHAFT HOLDER R	AMR7080	
	25	EJECT ARM L	AMR7020	65	LOCK MOLD	AMR7091	
	26	EJECT ARM R	AMR7021	66	SCREW	BPZ30P080FMC	
	27	LOCK LEVER	AMR7065	67	SCREW	VPZ30P100FZK	
	28	PCB MOLD	AMR7067	68	SCREW	ABA1005	
	29	MOLD	AMR7088	69	SCREW	BBZ30P080FZK	
	30	SLOT-IN MECHA COVER	AWL7020	70	LINK MOLD	AMR7089	
	31	DAMPER ASSY	AXA7021	71	SHAFT MOLD	AMR7090	
	32	SCREW	BSZ20P120FMC	72	DOOR COVER	AMR7076	
	33	EJECT SPRING (L)	RBH1411	73	OPEN BUTTON SPRING	ABH7109	
	34	EJECT SPRING (R)	RBH1412	74	CAUTION LABEL	ARW7009	
	35	SPRING	RBK1004	75	SPRING SPACER	AEB7048	
	36	COLLAR	RNK2135				
	37	SPRING	ABH7088				
	38	VOLUME KNOB	AAB7039				
	39	JOG KNOB	AAB7067				
	40	MIC KNOB	AAB7068				



2.4 MECHANISM UNIT

■ Mechanism unit I and II (1/2)

Mark	No.	Description	Parts No.
NSP	1	ASSY MOTOR	RXM1080
	2	JUMPER WIRE	RDD1012
	3	BRACKET MOTOR	RNE1830
	4	SPACER	RNK1822
	5	SCREW	RBA1100
	6	SCREW	PCZ20P040FMC

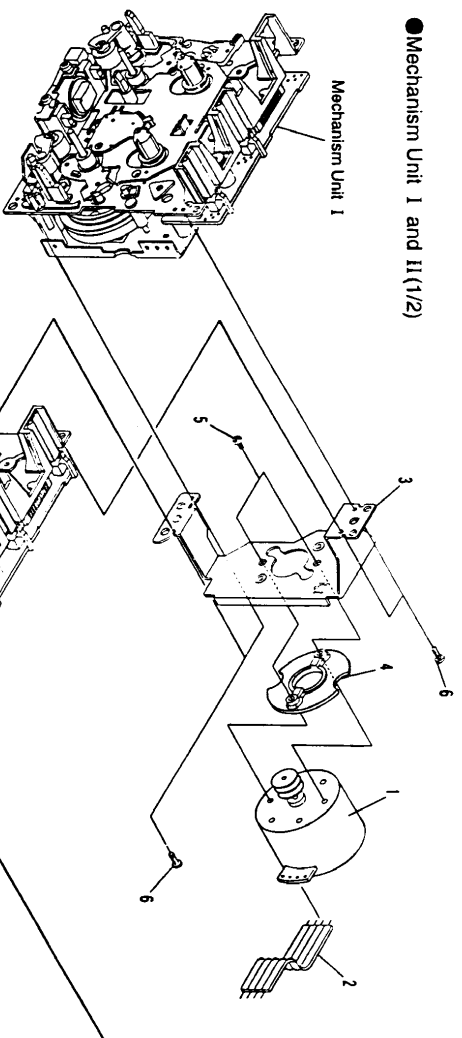
■ Mechanism unit I and II (2/2)

Mark	No.	Description	Parts No.
	1	ASSY HOLDER HEAD (*1)	RXA1400
	1	ASSY HOLDER HEAD (*2)	RXA1664
	2	FRAME HEAD	RNK1715
	3	LEVER HEAD	RNK1716
	4	SPRING AZIMUTH	RBK1006
	5	ASSY ARM ASSIST	RXA1401
	6	GEAR ARM HEAD	RNK1717
	7	SPRING CASSETTE	RBK1039
	8	EJECT LOCK	RNK1718
	9	CAP REEL	RNK1719
	10	ASSY PINCH ARM L	RXA1403
	11	CHASSIS HEAD	RNE1437
	12	ASSY PINCH ARM R	RXA1404
	13	ARM PLAY L	RNK1866
	14	GEAR PLAY	RNK1867
	15	ARM PLAY R	RNK1868
	16	CHASSIS OS	RXA1411
	17	ASSY SUB REEL L	RXA1407
	18	SOLENOID	RXP1020
	19	WIRE	RDC1006
	20	ARM RVS	RNK1721
	21	GEAR FF	RNK1723
	22	ASSY ARM FR	RXA1412
	23	ASSY PULLEY FR	RXA1413
	24	BELT FR	REB1292
	25	METAL	RNG1048
	26	ASSY FLYWHEEL L	RXA1690
	27	METAL	RNG1005
	28	ARM BRAKE	RNK1724
	29	ASSY SUB REEL R	RXA1408
	30	ARM TRIGER	RNK1722
	31	GEAR CAM	RNK1725
	32	METAL	RNG1049
	33	ASSY FLYWHEEL R	RXA1691
	34	METAL	RNG1004
	35	.....	
	36	.....	
	37	P. C. BOARD	RNP1610
	38	SWITCH MODE	RSN1020
	39	SWITCH (LEAF)	RSN1019
	40	HALL IC	DN6851A

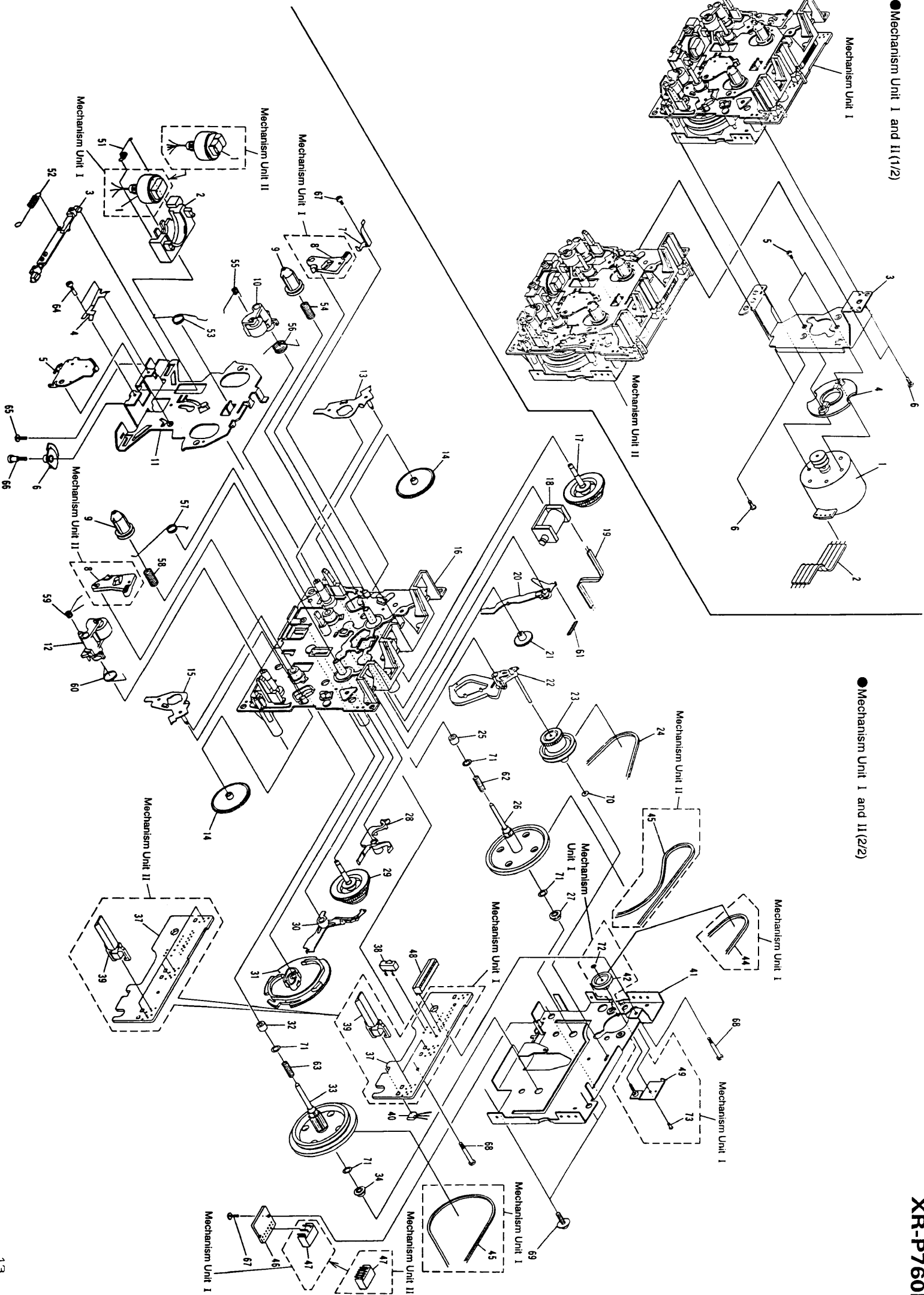
Mark	No.	Description	Parts No.
	41	BRACKET FW (*1)	RNE1854
	41	BRACKET FW (*2)	RNE1438
	42	PULLEY (*1 only)	RNK2132
	43	.....	
	44	BELT FW (*1 only)	REB1291
	45	BELT MAIN (*1)	REB1290
	45	BELT MAIN (*2)	REB1289
	46	P. C. BOARD	RNP1348
	47	HOUSING (*1)	RKP1396
	47	HOUSING (*2)	RKP1397
	48	CONNECTOR (*1)	RKP1713
	48	CONNECTOR (*2)	RKP1714
	49	ASSY HOLDER (*1 only)	RXA1689
	50	.....	
	51	SPRING	RBH1282
	52	SPRING	RBH1283
	53	SPRING	RBH1284
	54	SPRING	RBH1286
	55	SPRING	RBH1288
	56	SPRING	RBH1291
	57	SPRING	RBH1285
	58	SPRING	RBH1287
	59	SPRING	RBH1289
	60	SPRING	RBH1290
	61	SPRING	RBH1292
	62	FWP SP (SPRING)	RBH1061
	63	SPRING	RBH1325
	64	SCREW (For AZIMUTH)	RBA1023
	65	SCREW	RBA1027
	66	SCREW	RBA1030
	67	SCREW	PCZ20P040FMC
	68	SCREW	RBA1093
	69	SCREW	RBA1094
	70	WASHER	RBF1046
	71	WASHER	WA26D047D013
	72	WASHER (*1 only)	WT13D030D025
	73	SCREW (*1 only)	RBA1118

Note) *1: Mechanism Unit I
*2: Mechanism Unit II

●Mechanism Unit 1 and II(1/2)

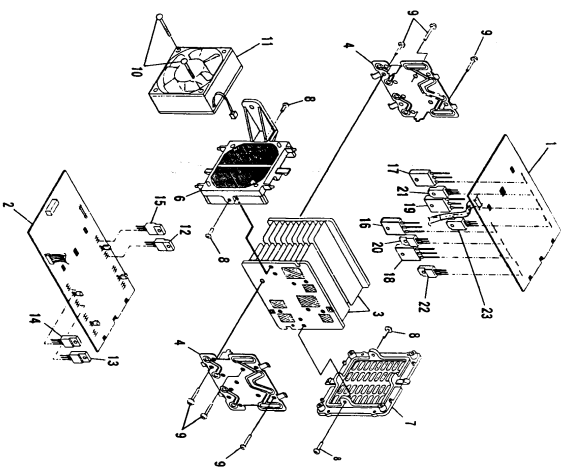


●Mechanism Unit 1 and II(2/2)



XR-P760F

2.5 POWER AMP MODULE

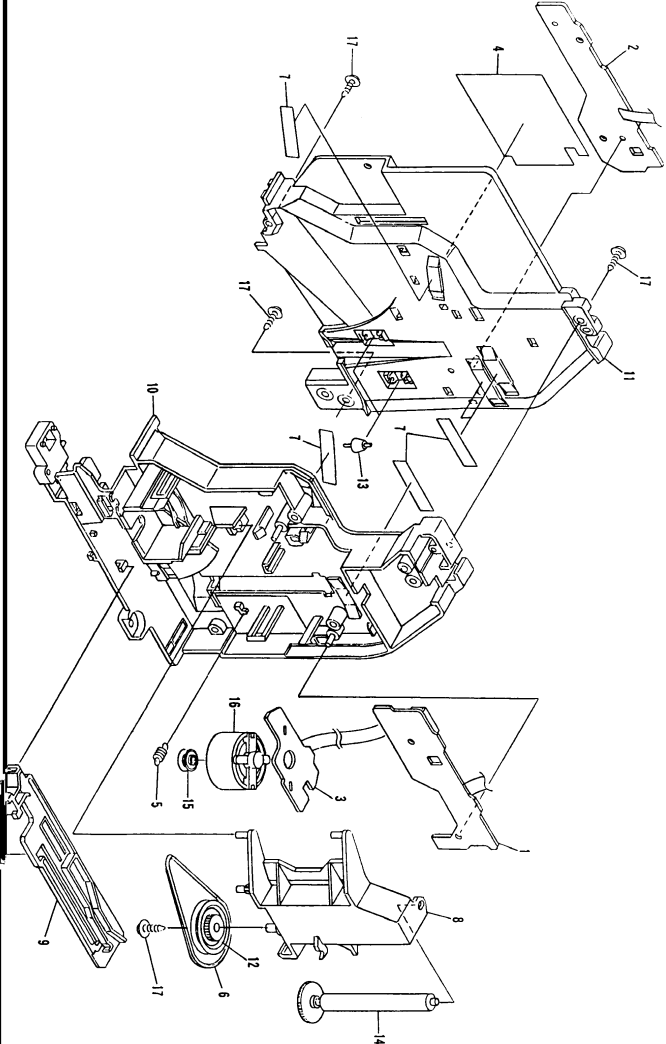


Note: Ensure that silicon grease does not adhere to the
MOLD A (No. 6) and MOLD B (No. 7).

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
1	FRONT 100W ASSY	AWZ7618	13	REGULATOR IC (IC7402)	NJN7912PA
2	REGULATOR ASSY	AWZ7620	14	REGULATOR IC (IC7403)	NJN7912PAS
3	HEAT SINK (AL)	ANH7607	15	REGULATOR IC (IC7404)	NJN7906PAS
4	HEAT SINK	ANH7608			

2.6 GM SLOT-IN MECHA ASSY

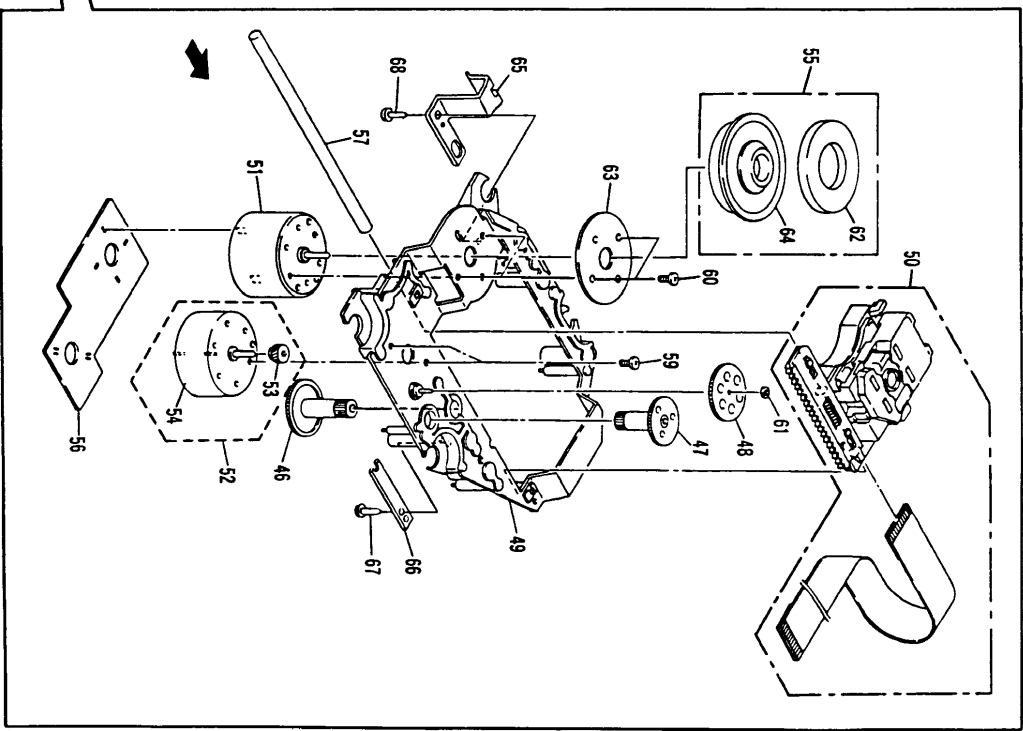
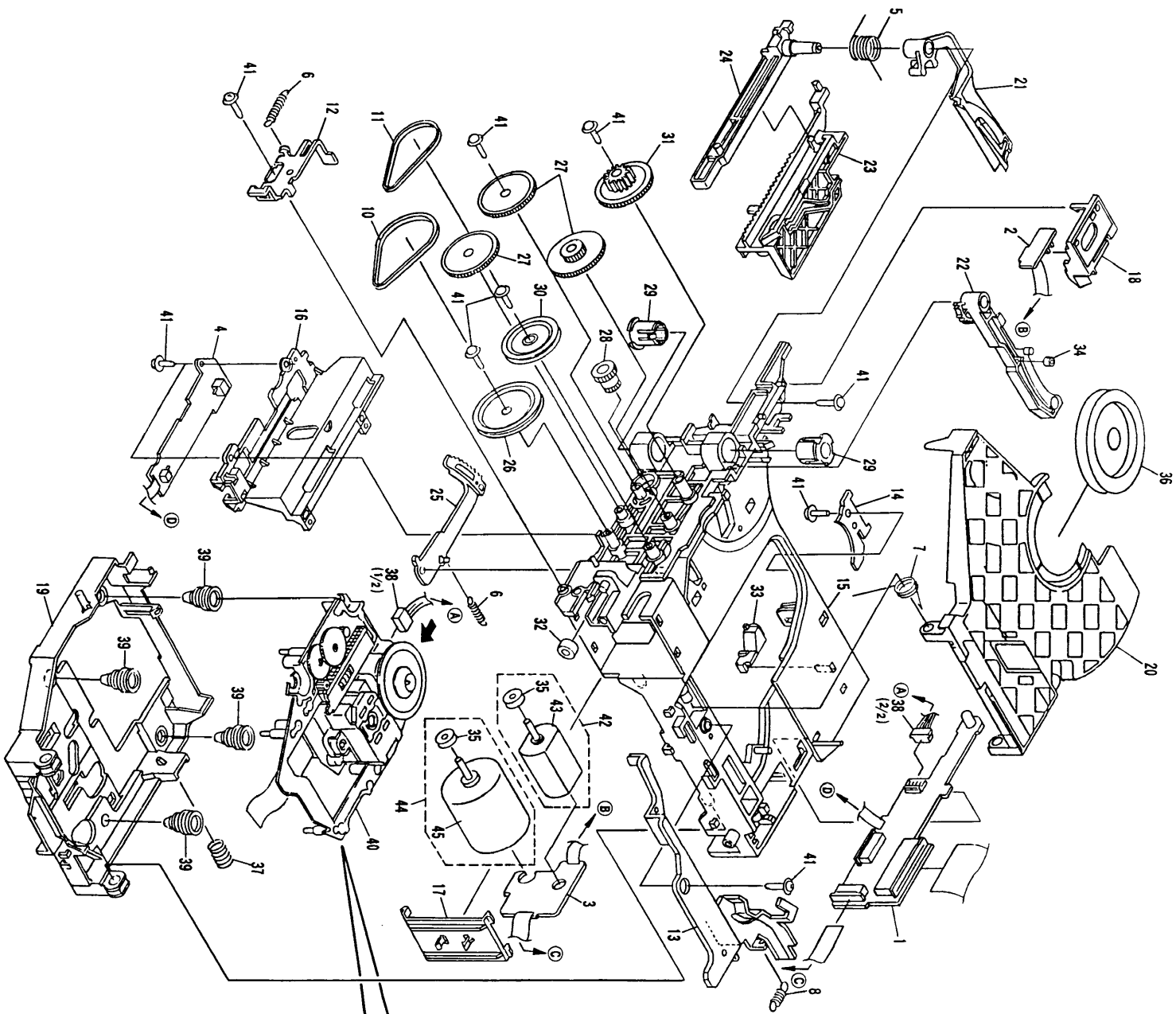
Mark No.	Description	Parts No.
NSP	1 SENSOR BOARD ASSY	AWZ7839
NSP	2 LED BOARD ASSY	AWZ7840
NSP	3 MOTOR BOARD ASSY	AWZ7841
NSP	4 MOTOR BOARD ASSY	AWZ7842
NSP	5 MOTOR BOARD ASSY	AWZ7843
NSP	6 ROLLER SPRING	ABH7063
NSP	7 BELT	AEB7063
NSP	8 GEAR HOLDER	AED7064
NSP	9 SLIDE PLATE	ANV7047
NSP	10 CASE (M)	ANV7048
NSP	11 CASE (S)	ANV7049
NSP	12 GEAR PULLEY A	ANV7077
NSP	13 GUIDE ROLLER	ANV7066
NSP	14 ROLLER ASSY	ANV7076
NSP	15 MOTOR PULLEY	AXA7059
NSP	16 DC MOTOR 0.75W	PNV1634
NSP	17 SCREW	PXA1010



2.7 GM MECHA ASSY

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	MECHA PCB ASSY	AWZ7835		51	D.C. MOTOR ASSY	PEA1235
NSP	2	SENSOR PCB ASSY	AWZ7836		52	CARRIAGE DC MOTOR ASSY	PEA1246
NSP	3	MOTOR PCB ASSY	AWZ7837		53	PINION GEAR	PNW2055
NSP	4	SW PCB ASSY	AWZ7838	NSP	54	CARRIAGE DC MOTOR/0.3W	PXM1027
	5	ARM A SPRING	ABH7050		55	DISC TABLE ASSY	PEA1314
	6	GEAR PLATE SPRING	ABH7051		56	MECHANISM BOARD ASSY	PWX1192
	7	CLAMP SPRING	ABH7107		57	GUIDE BAR	PLA1094
	8	LOCK LEVER SPRING	ABH7106		58	.....	
	9	.....			59	SCREW	JFZ17P025FZK
	10	LOADING BELT	AEB7029		60	SCREW	JFZ20P040FMC
	11	BELT	AEB7030		61	WASHER	WT12D032D025
NSP	12	LOCK ANGLE	ANB7027		62	CLAMP MAGNET	PMF1014
NSP	13	LOCK LEVER	ANB7038		63	YOKE M	PNB1312
NSP	14	SERVO STOPPERS	ANB7047	NSP	64	DISC TABLE	PNW2410
	15	LOADING BASE	ANW7051	NSP	65	FLOAT ANGLE	ANB7020
	16	CAM COVER	ANW7052		66	GEAR STOPPER	PNB1303
	17	MOTOR HOLDER	ANW7053		67	SCREW	BPZ20P060FMC
	18	SENSOR HOLDER	ANW7054		68	SCREW	BPZ26P100FMC
	19	FLOAT BASE	ANW7055		69	.....	
	20	CLAMPER HOLDER	ANW7056		70	FROIL	GYA1001
	21	ARM (A)	ANW7057		71	HA NARL	GEM1016
	22	ARM (B)	ANW7058				
	23	DRIVE PLATE	ANW7059				
	24	ARM PLATE	ANW7060				
	25	GEAR PLATE	ANW7061				
	26	GEAR PULLEY (B)	ANW7062				
	27	GEAR A	ANW7063				
	28	DRIVE GEAR	ANW7064				
	29	BEARING	ANW7065				
	30	GEAR PULLEY A	ANW7066				
	31	SELECT GEAR	ANW7067				
	32	ROLLER	ANW7068				
	33	LED LENS	ANW7072				
	34	ROLLER B	ANW7075				
	35	MOTOR PULLEY	PNW1634				
	36	CLAMPER	PNW2569				
	37	FLOAT SPRING	ABH7049				
	38	CONNECTOR ASSY (4P)	ADE7006				
	39	FLOAT RUBBER	AEB7028				
NSP	40	SERVO MECHANISM ASSY GM	AXA7028				
	41	SCREW	IPZ20P080FMC				
	42	MOTOR ASSY	AEA7005				
NSP	43	MOTOR	PXM1002				
	44	MOTOR ASSY	AEA7006				
	45	LOADING MOTOR	VXM1034				
	46	GEAR 1	PNW2052				
	47	GEAR 2	PNW2053				
	48	GEAR 3	PNW2054				
	49	CARRIAGE BASE	PNW2445				
	50	PICKUP ASSY	AEA7004				

Servo Mechanism Assy GM

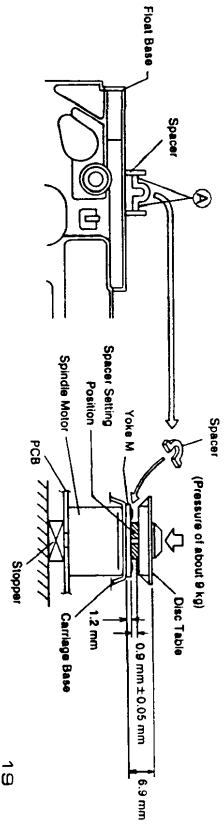


● How to install the disc table

- 1 Use nipper or other tool to cut the two sections marked (A) figure 1. Then remove the spacer.
- 2 While supporting the spindle motor shaft with the stopper, put spacer on top of the yoke M, and stick the disc table on top (takes about 8kg pressure). Take off the spacer.

1

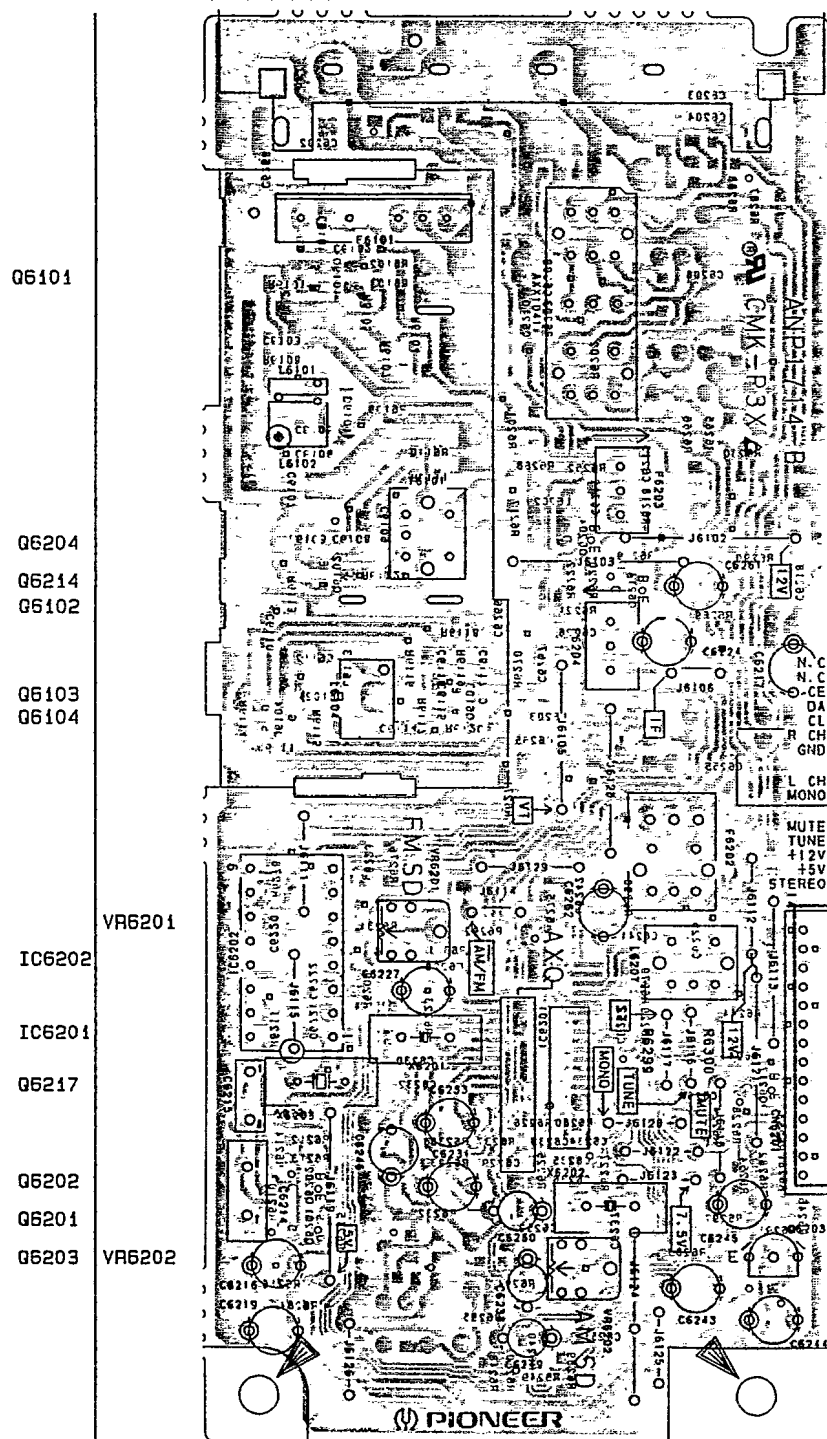
2



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

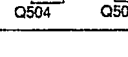
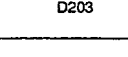
3.1 OVERALL SCHEMATIC DIAGRAM

FM/AM TUNER MODULE



NOTE FOR PCB DIAGRAMS:

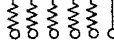
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
 Q504	 Q504 Q504	Transistor
 D203	 D203	Diode
 C513	 C513	Capacitor (Polarized)

3. The transistor terminal marked with E or $\sqcap$ shows the emitter.
4. The diode terminal marked with $\odot$ or $\ominus$ shows cathode side.
5. The capacitor terminal marked with $\oplus$ or $\sqcup$ shows negative terminal.

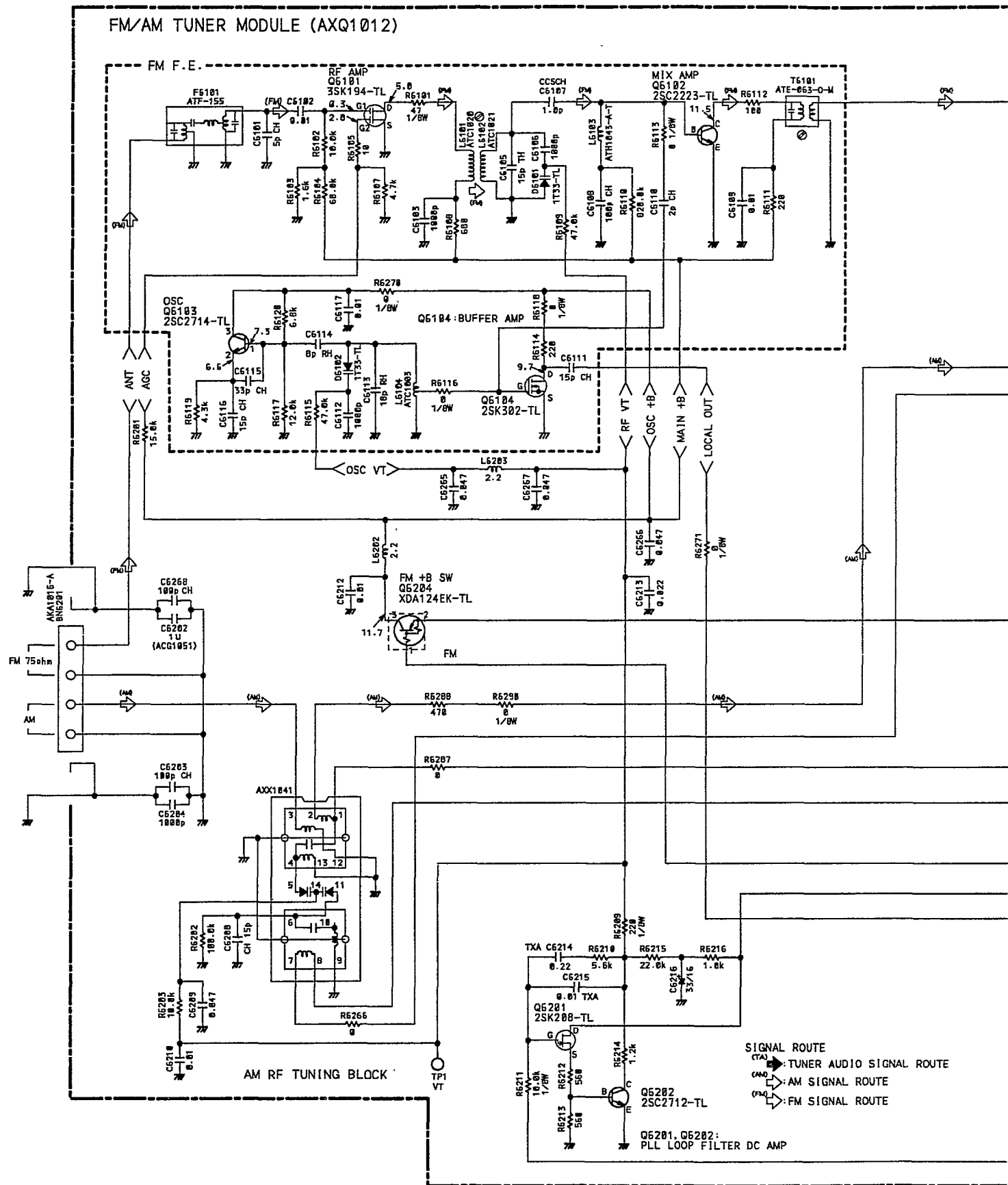
NOTE FOR PCB DIAGRAMS:

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

- To TX CONNECT assy CN13

XR-P760F



SCH-2

SCH-2

NOTE: VOLTAGE AND CURRENT

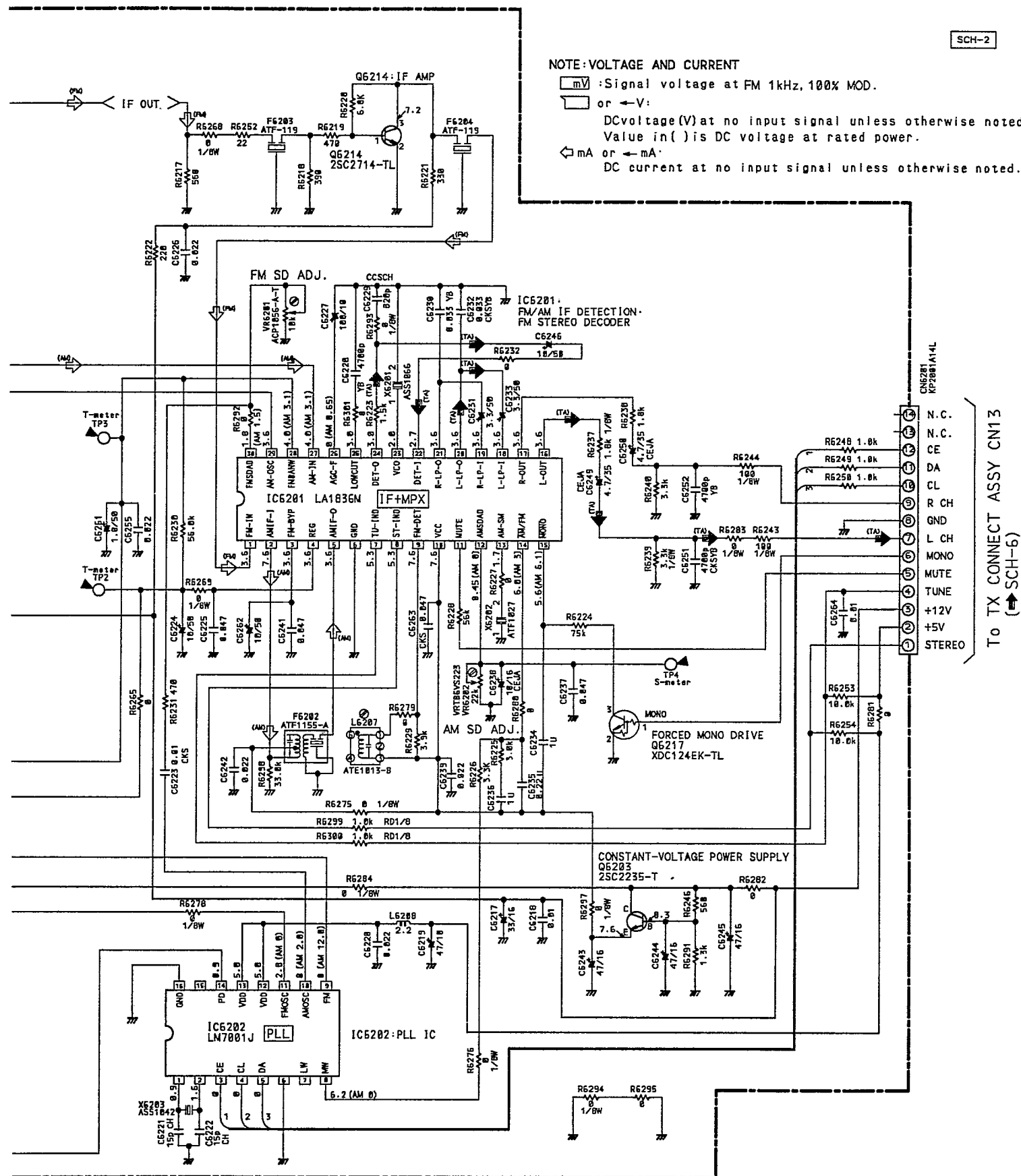
 : Signal voltage at FM 1kHz, 100% MOD.

 or $\leftarrow$ V:

DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.

 mA or $\leftarrow$ mA:

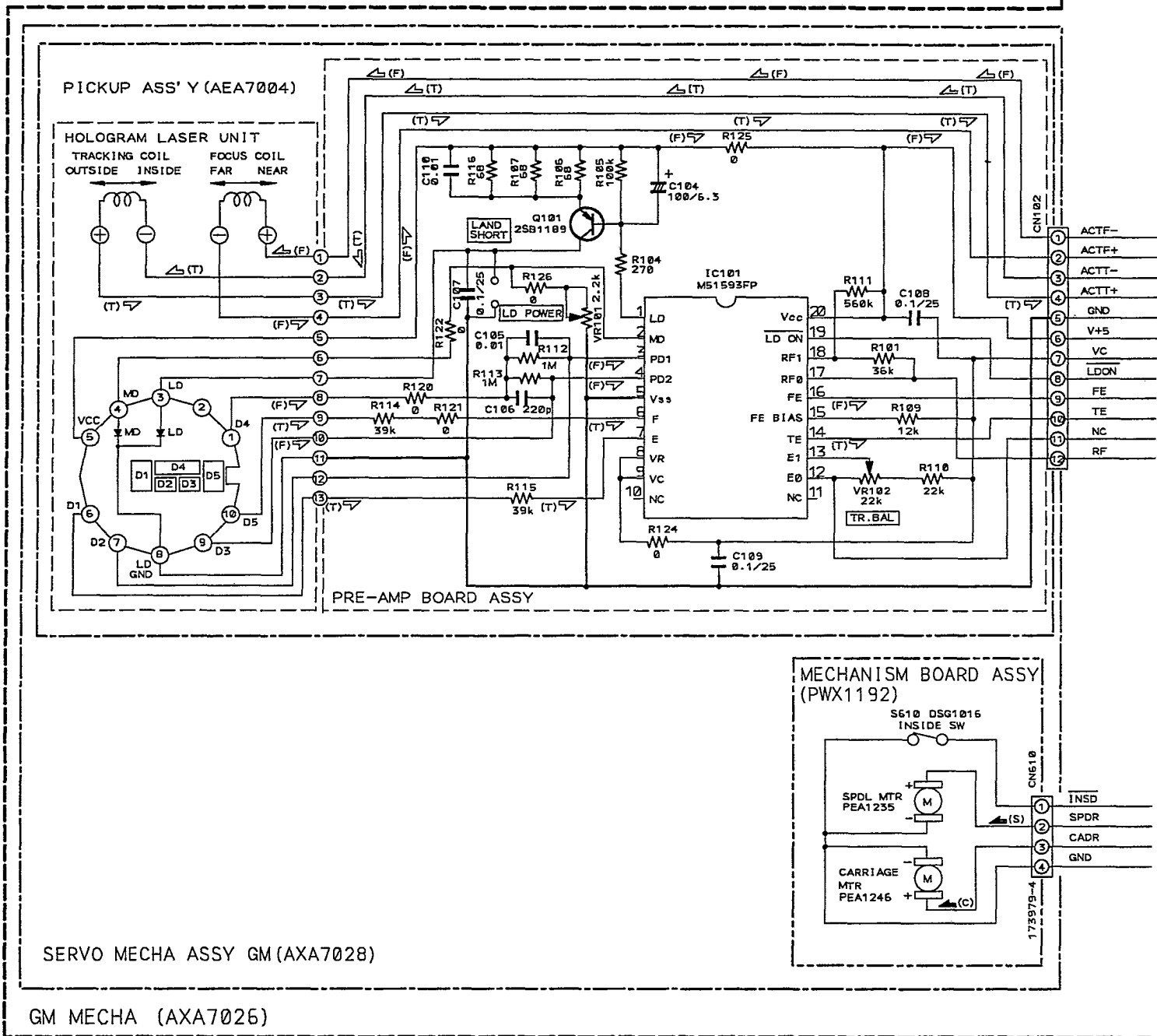
DC current at no input signal unless otherwise noted.



SCH-2

FM/AM TUNER MODULE

3.3 GM MECHA ASSY AND GM SLOT-IN MECHA ASSY

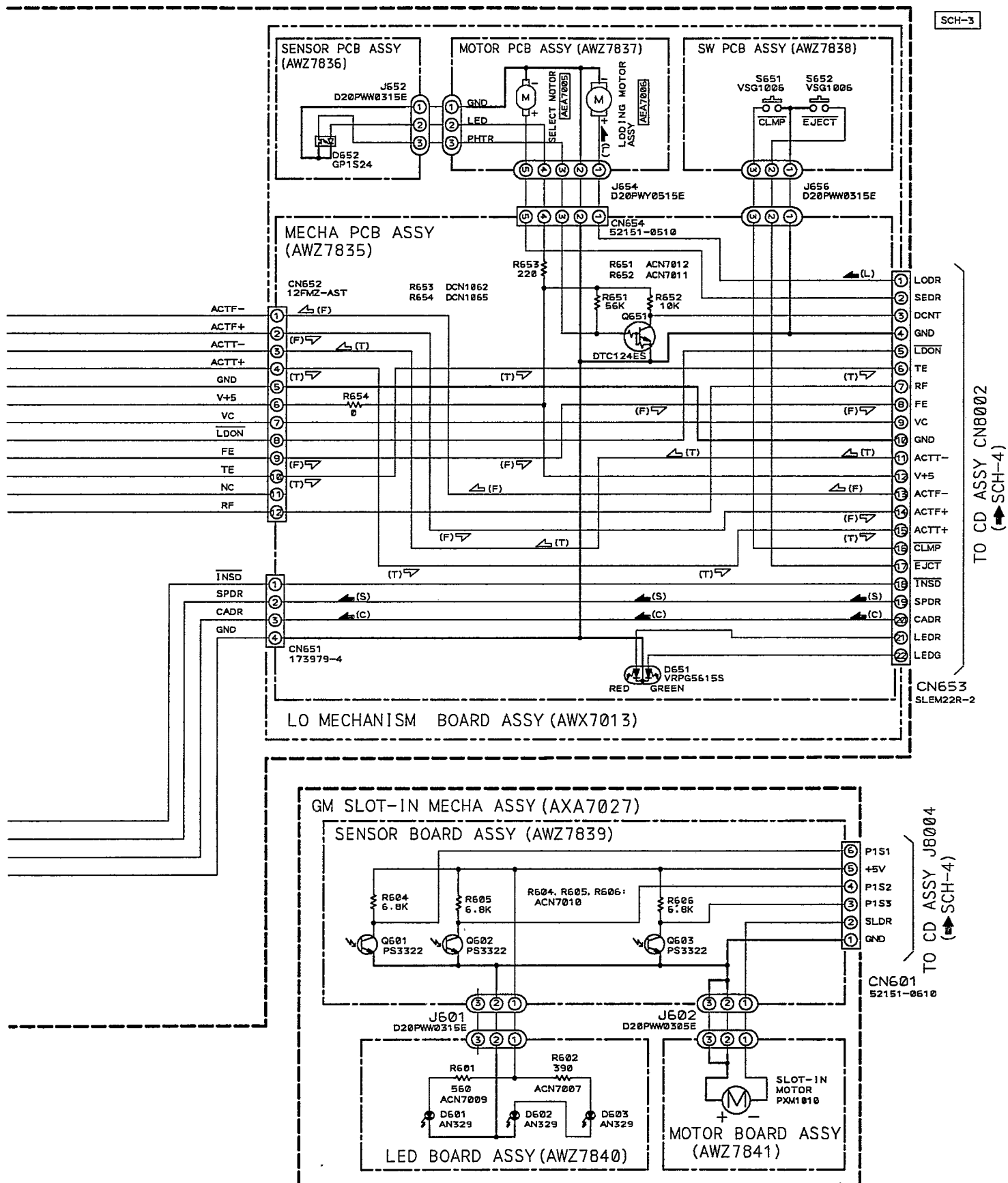


SIGNAL ROUTE

- (F) : FOCUS SERVO LOOP LINE
- (T) : TRACKING SERVO LOOP LINE
- (L) : LOADING MOTOR ROUTE
- (S) : SPINDLE MOTOR ROUTE
- (C) : CARRIAGE MOTOR ROUTE

SCH-3

SCH-3

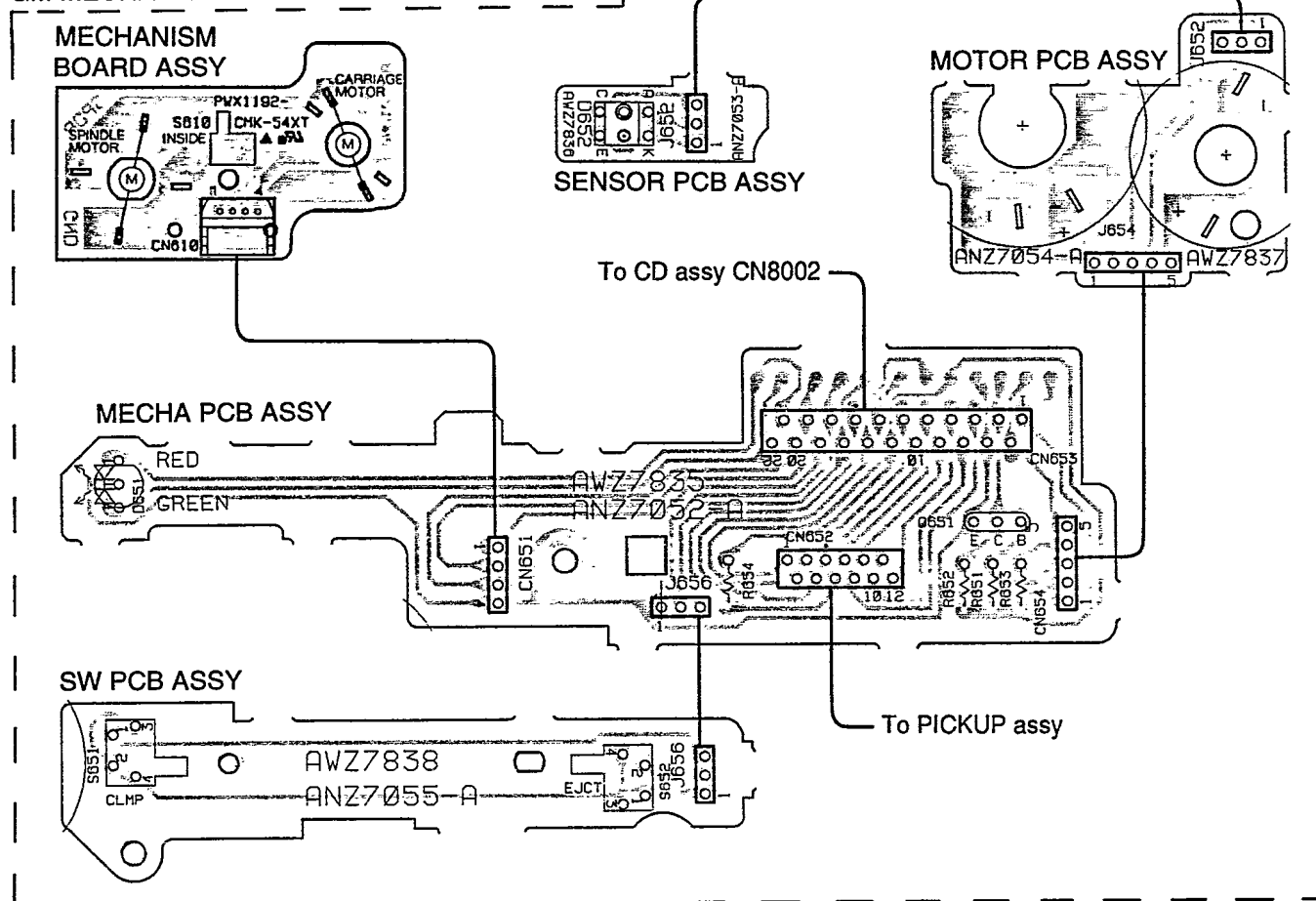


SCH-3

XR-P760F

PCB-2

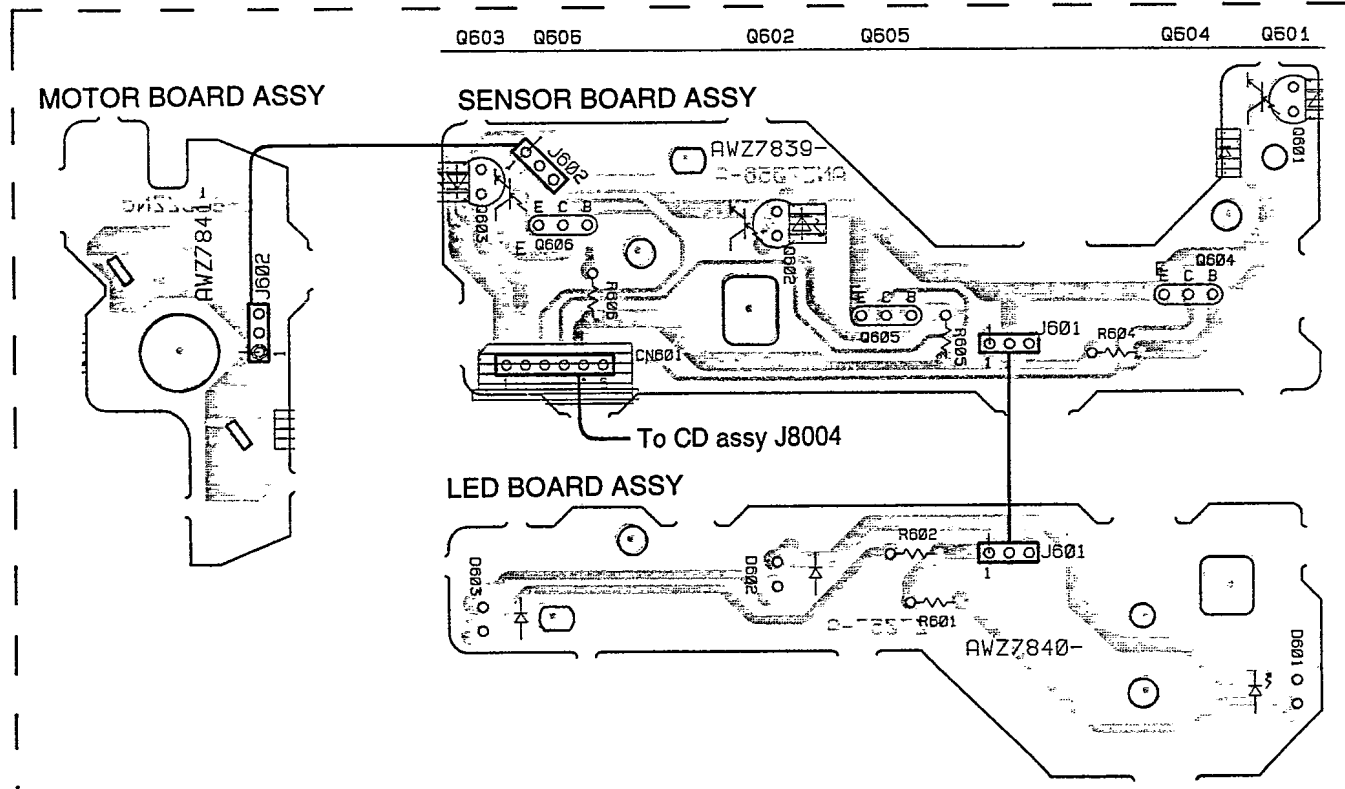
GM MECHA ASSY



• This diagram is viewed from the mounted parts side.

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.

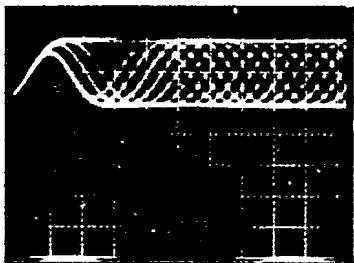
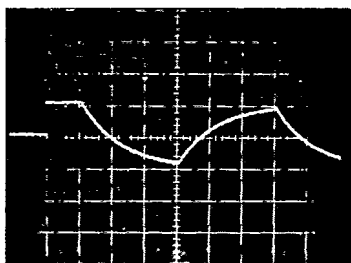
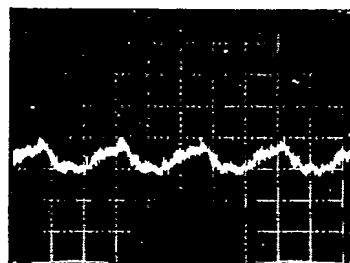
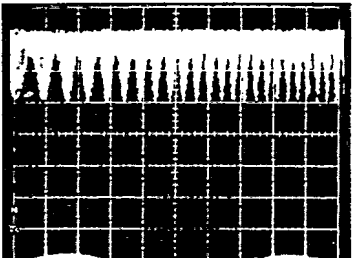
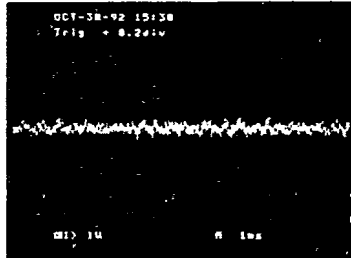
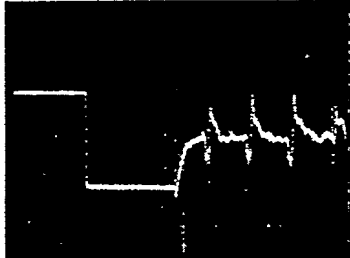
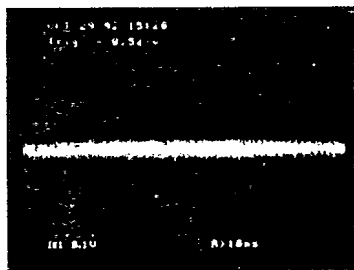
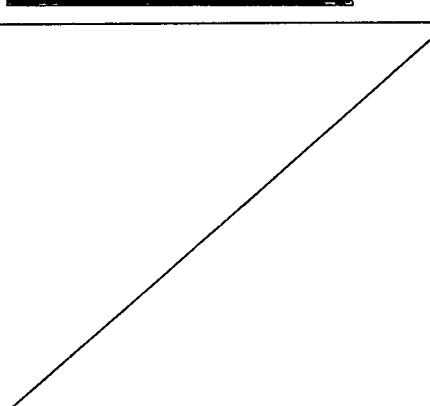
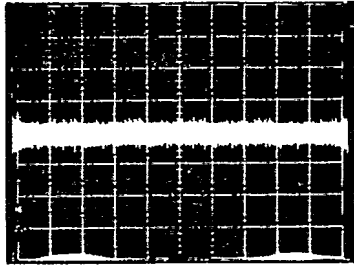
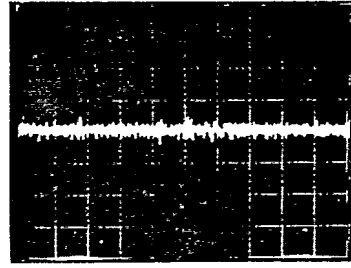
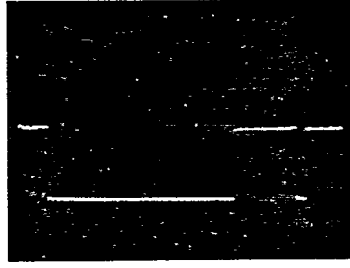
GM SLOT-IN MECHA ASSY

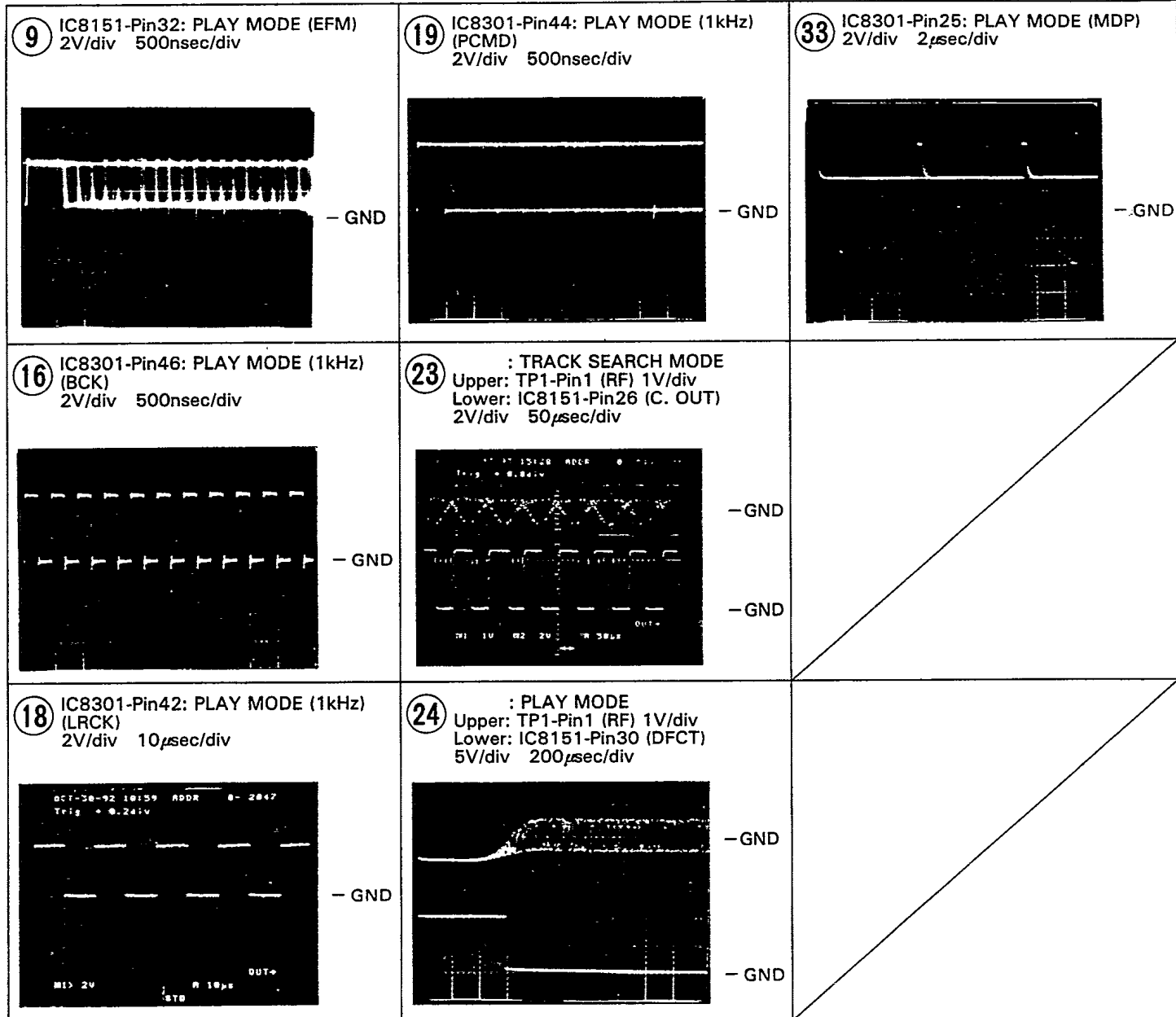


Waveforms

Note: The encircled numbers denote measuring point in the schematic diagram.

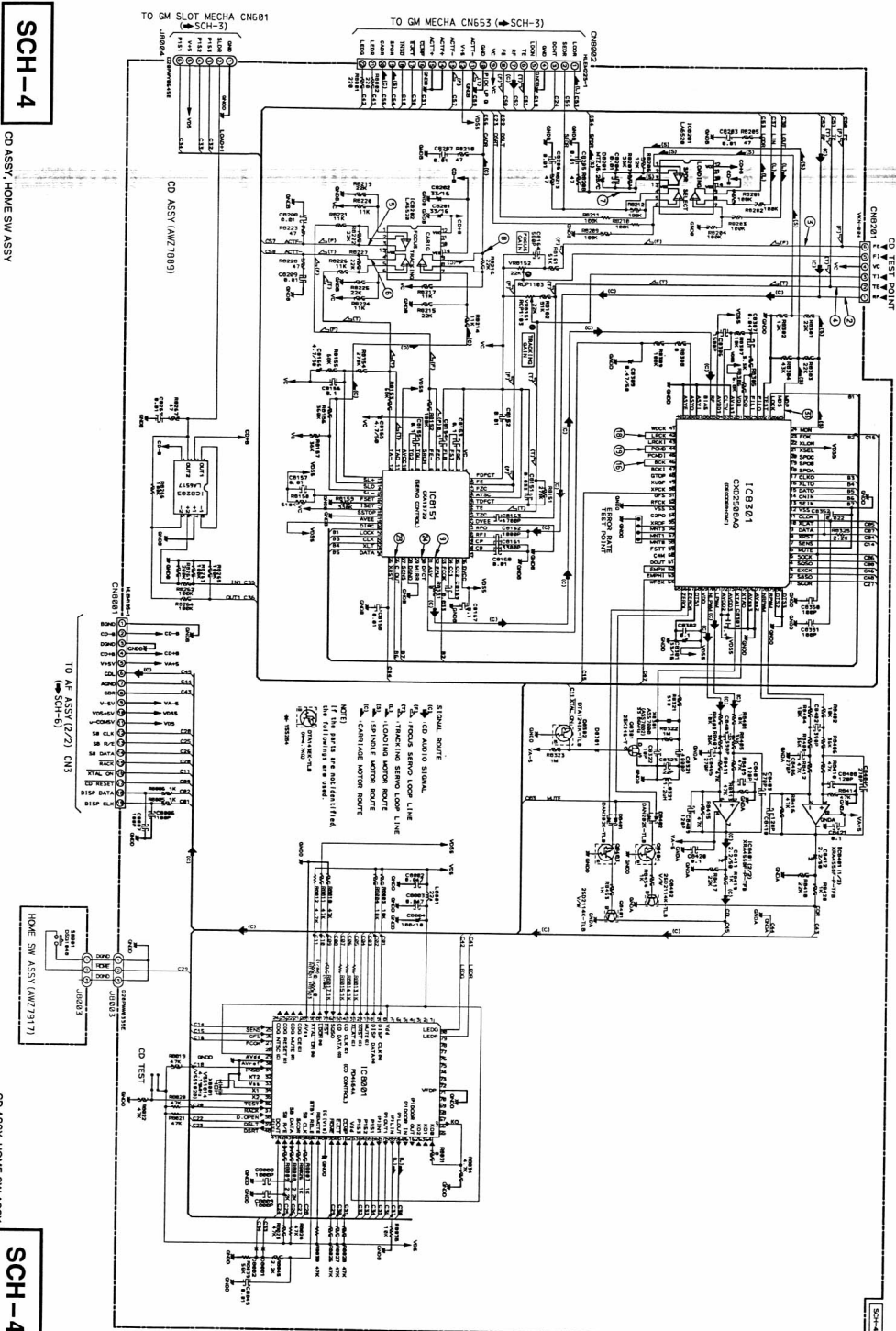
*2 FOCUS: Press the key without loading a disc.

② TP1-Pin1: PLAY MODE (RF) 500mV/div 500nsec/div  - VC	⑤ IC8202-Pin3: FOCUS-IN (*2) MODE (FODR) 1V/div 200msec/div  - GND	⑦ IC8201-Pin3: PLAY MODE (SPDR) 1V/div 50msec/div  - GND
② TP1-Pin1: TRACK SEARCH MODE (RF) 500mV/div 200μsec/div  - VC	⑤ IC8202-Pin3: PLAY MODE (FODR) 1V/div 1msec/div  - GND	⑦ IC8201-Pin3: TRACK SEARCH MODE (SPDR) 2V/div 50msec/div  - GND
③ TP1-Pin6: PLAY MODE (FOER) 100mV/div 10msec/div  - VC		
④ TP1-Pin2: PLAY MODE (TRER) 1V/div 1msec/div  - VC	⑥ IC8202-Pin4: PLAY MODE (TRDR) 500mV/div 1msec/div  - GND	⑧ IC8202-Pin9: TRACK SEARCH MODE (CADR) 2V/div 200msec/div  - GND



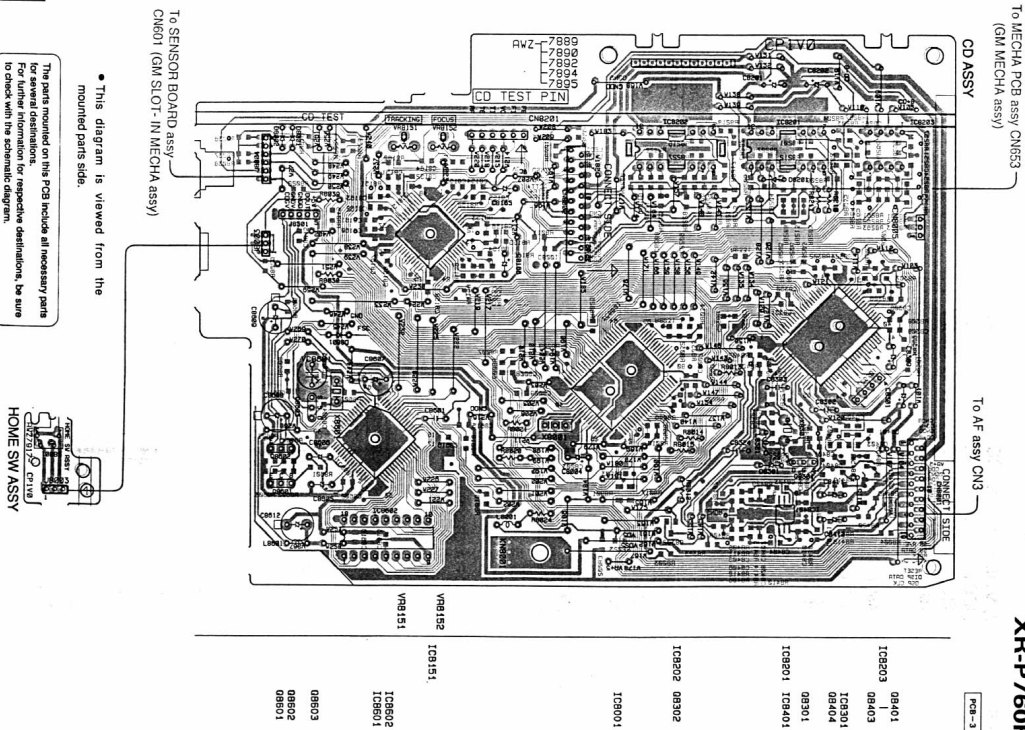
3.4 CD ASSY AND HOME SW ASSY

SCH-4
CD ASSY, HOME SW ASSY



CD ASSY, HOME SW ASSY

SCH-4



The parts mounted on this PCB include all necessary parts for further information for respective destinations, be sure to check with the schematic diagram.

HOME SW ASSY

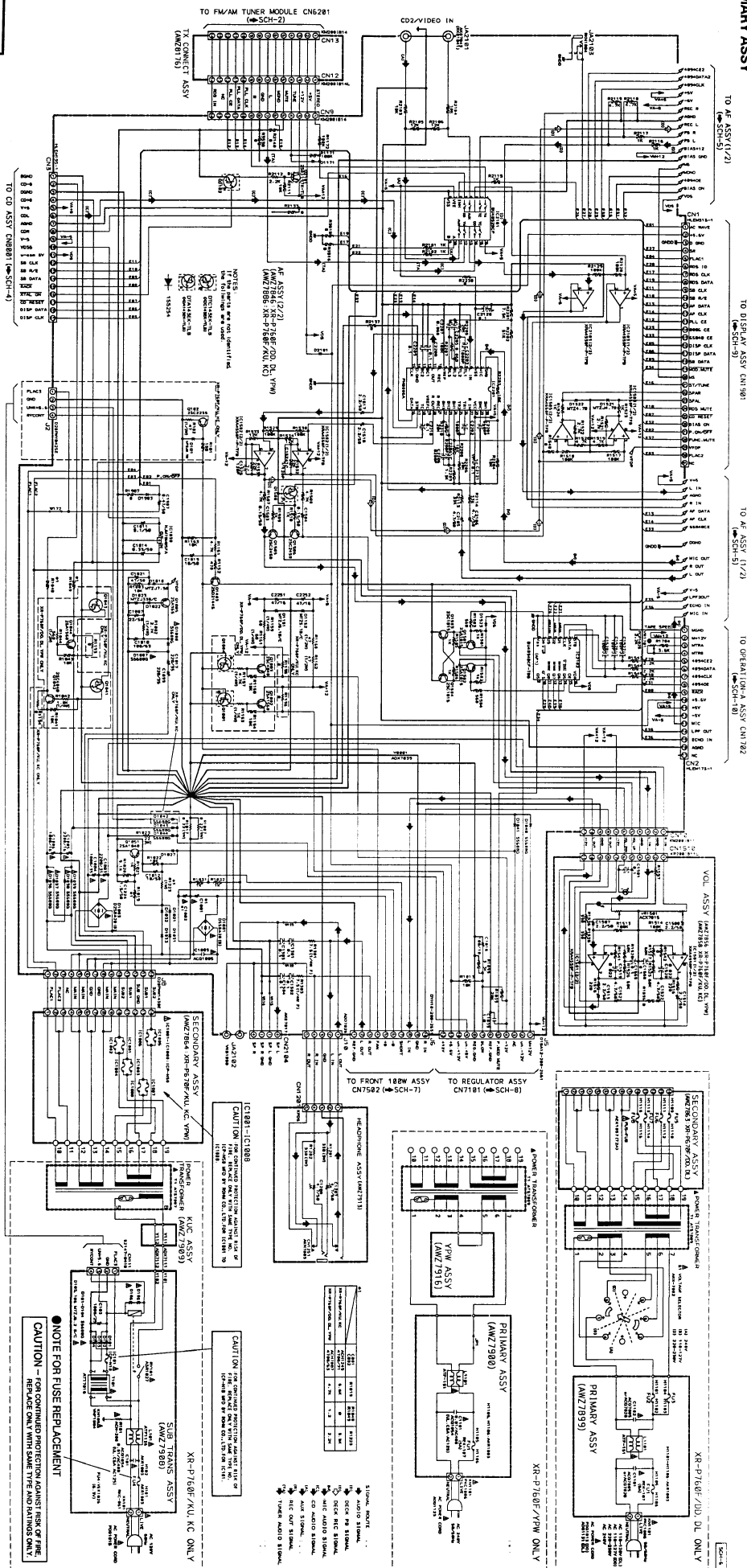
3.5 AF ASSY, VOL ASSY, SECONDARY ASSY,
TX CONNECT ASSY, HEADPHONE ASSY,
SUB TRANS ASSY, KUC ASSY, YPW ASSY
AND PRIMARY ASSY



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.



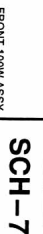
AF ASSY (I/2), VOL ASSY, SECONDARY ASSY, TX CONNECT ASSY,
HEADPHONE ASSY, SUB TRANS ASSY, KUC ASSY, YPW ASSY
AND PRIMARY ASSY



SCH-6
TX CONNECT ASSY, HEADPHONE ASSY,
SUB TRANS ASSY, KUC ASSY, YPW ASSY,
PRIMARY ASSY

AF ASSY (2/2), VOL ASSY, SECONDARY ASSY
TX CONNECT ASSY, HEADPHONE ASSY
SUB TRANS ASSY, KUC ASSY, YPW ASSY
PRIMARY ASSY

SCH-6



45

TO FRONT 100W ASSY J7601
(→ SCH-7)

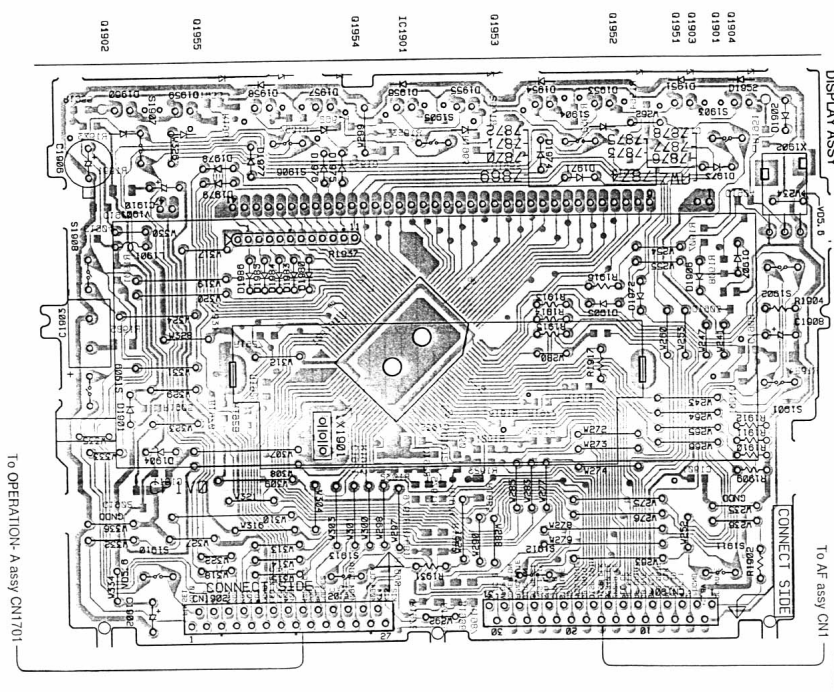


Q7203

SCH-8

- This diagram is viewed from the mounted parts side.

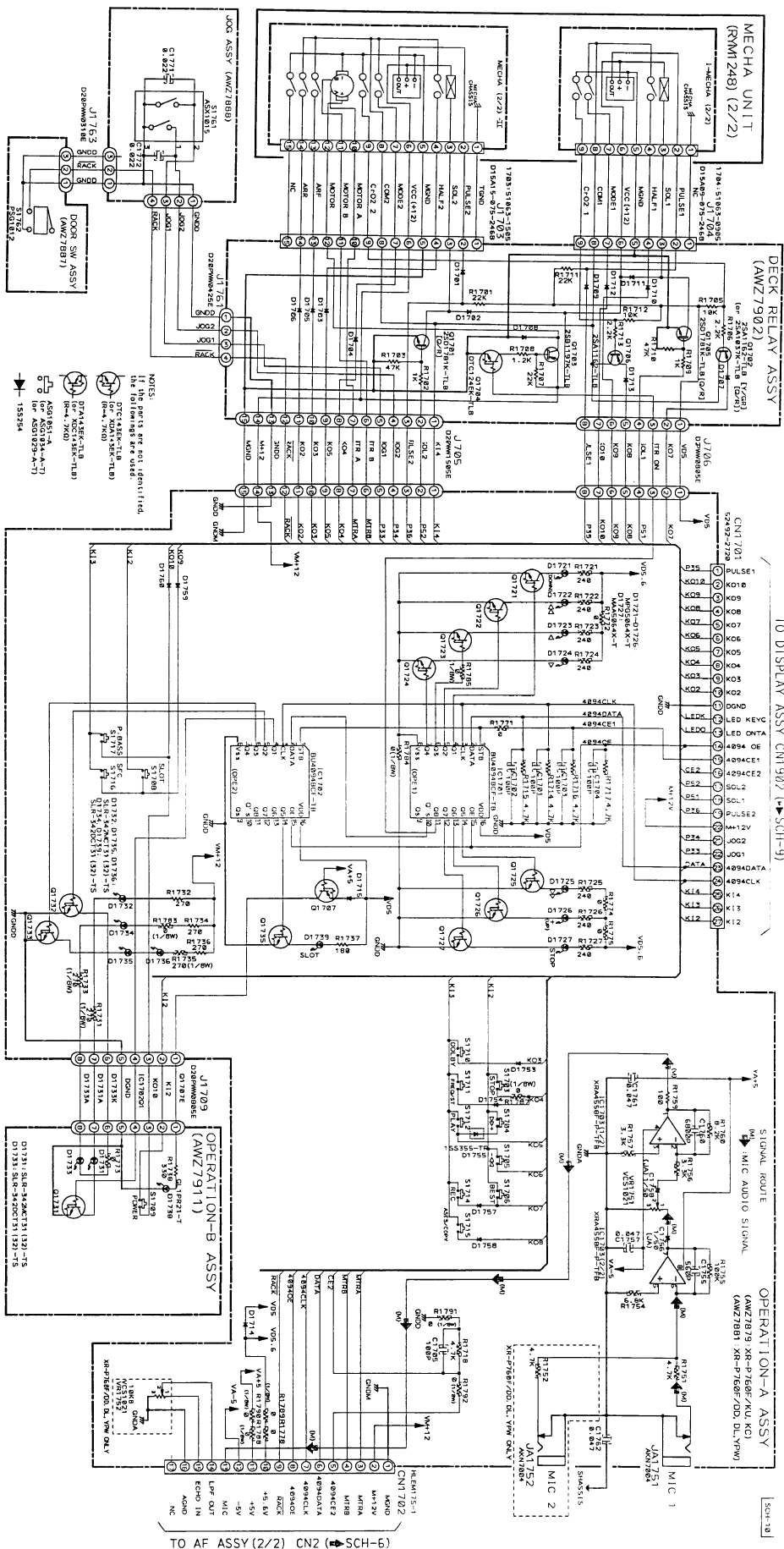
XR-P760F



- This diagram is viewed from the mounted parts side.

XR-P760F

3.9 OPERATION-A ASSY, OPERATION-B ASSY, DECK RELAY ASSY,
JOG ASSY, DOOR SW ASSY AND MECHANISM UNIT



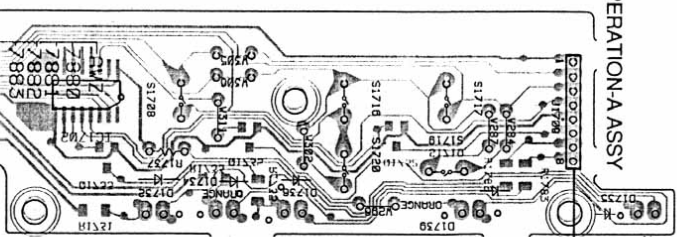
SCH-10

OPERATION-A ASSY, OPERATION-B ASSY,
DECK RELAY ASSY, JOG ASSY,
DOOR SW ASSY, MECHANISM UNIT

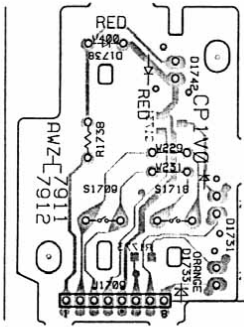
SCH-10

OPERATION-A ASSY, OPERATION-B ASSY,
DECK RELAY ASSY, JOG ASSY,
DOOR SW ASSY, MECHANISM UNIT

OPERATION-A ASSY



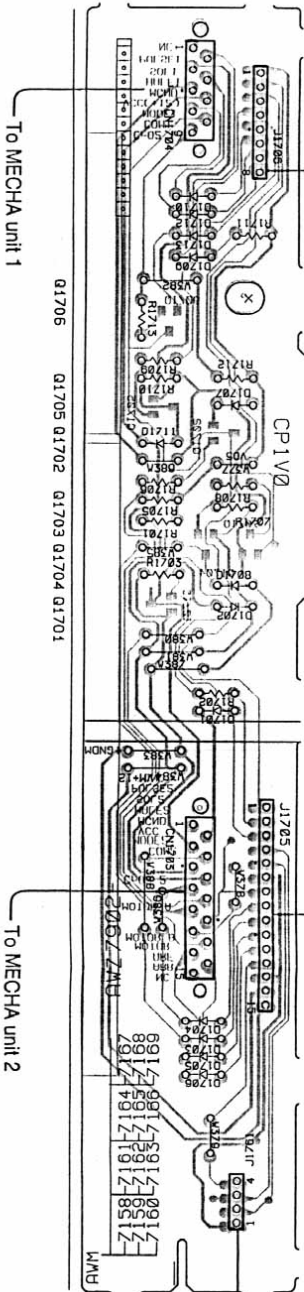
OPERATION-B ASSY



• This diagram is viewed from the mounted parts side.

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.

DECK RELAY ASSY



To MECHA unit 1

To MECHA unit 2

IC1702 Q1732 Q1735 Q1733

IC1701

Q1721 Q1722

Q1723

Q1724 Q1725

Q1726

Q1727

Q1736

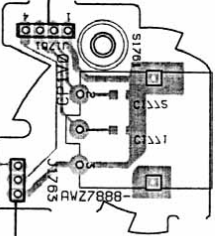
Q1737 IC1703

VR1752 VR1751

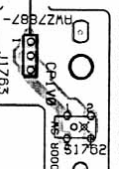
To DISPLAY assy CN1902

To AF assy CN2

JOG ASSY



DOOR SW ASSY



4. PCB PARTS LIST

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The 1 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.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

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

560 Ω $\rightarrow$ $56 \times 10^1 = 561$ RD1/8PM 5 6 1 J

47k Ω $\rightarrow$ $47 \times 10^3 = 473$ RD1/4PS 4 7 3 J

0.5 Ω $\rightarrow$ 0R5 RN2H 0 R 5 K

1 Ω $\rightarrow$ 010 RS1P 0 1 0 K

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

5.62k Ω $\rightarrow$ $562 \times 10^1 = 5621$ RM1/4PC 5 6 2 1 F

LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No.					Remarks
		KU type	KC type	DD type	DL type	YPW type	
NSP	MAIN ASSY	AWK7206	AWK7206	AWK7208	AWK7208	AWK7214	*1
	— AF ASSY	AWZ7886	AWZ7886	AWZ7846	AWZ7846	AWZ7846	
	— VOL ASSY	AWZ7858	AWZ7858	AWZ7856	AWZ7856	AWZ7856	
	— SECONDARY ASSY	AWZ7864	AWZ7864	AWZ7863	AWZ7863	AWZ7864	
NSP	— TX CONNCT ASSY	AWZ8176	AWZ8176	AWZ8176	AWZ8176	AWZ8176	
NSP	COMPLEX ASSY	AWM7158	AWM7158	AWM7160	AWM7160	AWM7161	
	— DISPLAY ASSY	AWZ7869	AWZ7869	AWZ7871	AWZ7871	AWZ7871	
	— OPERATION-A ASSY	AWZ7879	AWZ7879	AWZ7881	AWZ7881	AWZ7881	
NSP	— DOOR SW ASSY	AWZ7887	AWZ7887	AWZ7887	AWZ7887	AWZ7887	
	— JOG ASSY	AWZ7888	AWZ7888	AWZ7888	AWZ7888	AWZ7888	
	— CD ASSY	AWZ7889	AWZ7889	AWZ7889	AWZ7889	AWZ7889	
	— DECK RELAY ASSY	AWZ7902	AWZ7902	AWZ7902	AWZ7902	AWZ7902	
NSP	— SUB TRANS ASSY	AWZ7908	AWZ7908	Not used	Not used	Not used	
NSP	— KUC ASSY	AWZ7909	AWZ7909	Not used	Not used	Not used	
	— OPERATION-B ASSY	AWZ7911	AWZ7911	AWZ7911	AWZ7911	AWZ7911	
NSP	— HEADPHONE ASSY	AWZ7913	AWZ7913	AWZ7913	AWZ7913	AWZ7913	
NSP	— HOME SW ASSY	AWZ7917	AWZ7917	AWZ7917	AWZ7917	AWZ7917	
	— PRIMARY ASSY	Not used	Not used	AWZ7899	AWZ7899	AWZ7900	
	— YPW ASSY	Not used	Not used	Not used	Not used	AWZ7916	
	FM/AM TUNER MODULE	AXQ1012	AXQ1012	AXQ1012	AXQ1012	AXQ1012	
	POWER AMP MODULE	AXQ7017	AXQ7017	AXQ7017	AXQ7017	AXQ7017	
	— FRONT 100W ASSY	AWZ7518	AWZ7518	AWZ7518	AWZ7518	AWZ7518	
	— REGULATOR ASSY	AWZ7520	AWZ7520	AWZ7520	AWZ7520		
NSP	GM MECHA ASSY	AXA7026	AXA7026	AXA7026	AXA7026	AXA7026	
NSP	— LO MECHANISM BOARD ASSY	AWX7013	AWX7013	AWX7013	AWX7013	AWX7013	
NSP	— MECHA PCB ASSY	AWZ7835	AWZ7835	AWZ7835	AWZ7835	AWZ7835	
NSP	— SENSOR PCB ASSY	AWZ7836	AWZ7836	AWZ7836	AWZ7836	AWZ7836	
NSP	— MOTOR PCB ASSY	AWZ7837	AWZ7837	AWZ7837	AWZ7837	AWZ7837	
NSP	— SW PCB ASSY	AWZ7838	AWZ7838	AWZ7838	AWZ7838	AWZ7838	
NSP	— SERVO MECHANISM ASSY GM	AXA7028	AXA7028	AXA7028	AXA7028	AXA7028	
	— MECHANISM BOARD ASSY	PWX1192	PWX1192	PWX1192	PWX1192	PWX1192	
NSP	GM SLOT-IN MECHA ASSY	AXA7027	AXA7027	AXA7027	AXA7027	AXA7027	
NSP	— SL MECHANISM BOARD ASSY	AWX7014	AWX7014	AWX7014	AWX7014	AWX7014	
NSP	— SENSOR BOARD ASSY	AWZ7839	AWZ7839	AWZ7839	AWZ7839	AWZ7839	
NSP	— LED BOARD ASSY	AWZ7840	AWZ7840	AWZ7840	AWZ7840	AWZ7840	
NSP	— MOTOR BOARD ASSY	AWZ7841	AWZ7841	AWZ7841	AWZ7841	AWZ7841	

Note *1: Although AWZ7858 and AWZ7856 are different in part number, they have the same service parts.

Mark	No.	Description	Parts No.
AF ASSY			
SEMICONDUCTORS			
	IC2101		BU4052BCF
	IC4202		BU4066BCF
	IC2102, IC4521		BU4094BCF
	IC4421		CXA1101P
	IC1030		NJM78M05FA
	IC2201		PM0006A
	IC1502, IC1503, IC2103, IC4101, IC4301		XRA4558F-P
	Q1501, Q1502		2SA1015
	Q1051		2SA1048
	Q4352		2SA1560
	Q1005		2SA965
	Q2101		2SB1197K
	Q1503, Q1504		2SC1815
	Q102		2SC2235
	Q4356		2SC2240
	Q1505, Q1506, Q4101, Q4102		2SC2458
	Q4203, Q4204, Q4305, Q4306		2SC2458
	Q4451-Q4455, Q4501, Q4502		2SC2458
	Q4301, Q4302		2SC2878
	Q4353, Q4354		2SC4040
	Q1403, Q4355		2SD2144S
	Q4307, Q4308		2SK373
	Q4456, Q4521, Q4522		DTA124EK
	Q1508, Q4208		DTA143EK
	Q4351		DTC124EK
	Q2102, Q4207		DTC143EK
	D1021, D1022, D1027, D1031-D1033		1SS254
	D1171, D1523, D1903, D2101, D4201		1SS254
	D4301-D4306, D4310, D4401, D4402		1SS254
	D4551, D4552		1SS254
$\frac{1}{1}$	D1003		D2SBA20 (B)
$\frac{1}{1}$	D1001		D5SBA20 (B)
	D101		MTZJ2.7B
	D1023		MTZJ33B
	D1521, D1522		MTZJ4.7B
	D1151, D1152		MTZJ5.1B
	D1010		MTZJ7.5B
$\frac{1}{1}$	D1007, D1008, D1036-D1039		S5688G
	D1040-D1042, D1044		S5688G
COILS AND FILTERS			
	L4301, L4302		LTA472J
	L4303, L4304		LTA822J
	F4401, F4402		RTF1209
TRANSFORMERS			
	T4351		ATX-043
CAPACITORS			
	C4361 (2000pF/630V)		ACE1020
	C1009 (0.01 μ F/150V)		ACG1005
	C1001, C1002 (4700 μ F/63V)		ACH1249
	C4319, C4320		CCCSL271K500
	C4323, C4324		CCSQCH100D50
	C1526-C1528, C4511, C4513		CCSQCH101J50
	C1524, C1525		CCSQCH121J50
	C4109, C4110		CCSQCH151J50
	C4353		CCSQCH221J50
	C4998, C4999		CCSQCH391J50

Mark	No.	Description	Parts No.
	C4101, C4102		CCSQCH471J50
	C4151, C4152, C4355		CCSQCH681J50
	C4502		CCSQCH820J50
	C4451, C4452		CEAS010M50
	C1011		CEAS0R1M50
	C1012, C1019, C4359, C4360, C4364		CEAS100M50
	C4403-C4405, C4407, C4454		CEAS100M50
	C1016, C4401, C4408		CEAS101M10
	C1018		CEAS101M63
	C1006		CEAS102M16
	C1004		CEAS102M35
	C1224		CEAS1R5M50
	C1007, C4453		CEAS220M50
	C1017, C1099		CEAS221M35
	C1005		CEAS222M16
	C1003		CEAS222M35
	C1517, C1518, C4207, C4208		CEAS2R2M50
	C4315, C4316, C4504		CEAS2R2M50
	C4103, C4104, C4309, C4310		CEAS330M16
	C4317, C4318		CEAS330M16
	C4357		CEAS3R3M50
	C2251, C2252, C4107, C4108		CEAS470M16
	C1021		CEAS470M50
	C2105, C2106, C4301, C4302		CEAS4R7M50
	C1503, C1504		CEASR15M50
	C1014		CEASR33M50
	C1907		CEASR47M50
	C4402, C4406		CEASR68M50
	C4303, C4304		CEJA010M50
	C1039		CFTXA105J50
	C4512		CKCYB101K50
	C4363		CKCYB222K500
	C2202, C2203		CKSQYB102K50
	C4352, C4354, C4503		CKSQYB103K50
	C4209		CKSQYB122K50
	C4411, C4412		CKSQYB152K50
	C4313, C4314		CKSQYB182K50
	C4501		CKSQYB223K50
	C4307, C4308		CKSQYB273K50
	C4305, C4306		CKSQYB333K50
	C2201		CKSQYB562K50
	C2204, C2206		CKSQYB822K50
	C1301-C1304, C2120, C2121		CKSQYF104Z50
	C2208-C2210		CKSQYF104Z50
	C4409, C4410		CQMA103J50
	C4358		CQMA123K250
	C4356		CQMA153J50
	C4362		CQMA562K400
	C4105, C4106		CQMA682J50
	C2205, C2207		CQMA683J50
	C4311, C4312		CQMA823J50
RESISTORS			
	VR1701 (2.2k Ω)		PCP1025
	VR4201-VR4204 (22k Ω)		PCP1030
	VR4301, VR4302 (4.7k Ω)		RCP1139
	VR4351, VR4352 (220k Ω)		RCP1142
	R4352		RD1/2PM102J
	R1160, R1162, R4353		RD1/2PM470J
	R102		RD1/2PM680J
	R4357		RD1/2PM6R8J
	R1002		RD1/4PM272J
	R1159, R1161		RD1/4PM680J

Mark	No.	Description	Parts No.
	R1301, R1303 R1021 R1003, R4112, R4325, R4326, R4416 R4223, R4521-R4523 R1151		RD1/4PMF7R5J RD1/6PM102J RD1/6PM103J RD1/6PM222J RD1/6PM472J
	R4113, R4114, R4323, R4324 R1223 R1023 R1007, R1017 Other Resistors		RD1/6PM820J RS1LMF332J RS3LMF220J RS3LMFR22J RS1/10S□□□J

OTHERS

	12P CABLE HOLDER	51063-1205
Y1	BOARD-IN READ WIRE	ADX7039
JA2101	PIN JACK 2P	AKB7043
CN2104	SPEAKER TERMINAL 4P	AKE7017
CN4003	2P TOP POST	B2B-EH
CN4002	3P TOP POST	B3B-EH
CN4001	3P TOP POST	B3B-EH-R
CN2	17P FFC CONNECTOR	HLEM17S-1
CN3	19P FFC CONNECTOR	HLEM19S-1
CN1	31P FFC CONNECTOR	HLEM31S-1
CN10	11P PLUG	KM200IB11
CN9	14P PLUG	KM200IB14
JA2103	REMOTE CONTROL JACK	RKN1004
	PCB BINDER	VEF1040
JA2102	PIN JACK 2P	VKB1050

VOL ASSY

SEMICONDUCTORS

IC1501	XRA4558F-P
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CAPACITORS

C1507, C1508, C1513, C1514 C1521, C1522 C1558, C1559 C1519, C1520 C1501	CEAS2R2M50 CEYA4R7M50 CKSQYB104K25 CKSQYB223K50 CKSQYF104Z50
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RESISTORS

VR1501 (100k Ω -A5 $\times$ 2) Other Resistors	ACX7015 RS1/10S□□□J
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OTHERS

CN1510 11P SOCKET	KP200IB11L
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SECONDARY ASSY

SEMICONDUCTORS

IC1001-IC1008	ICP-N50
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TX CONNECT ASSY

OTHERS

CN13 14P PLUG CN12 14P SOCKET	KM200IB14 KP200IB14L
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DISPLAY ASSY

SEMICONDUCTORS

IC1901 Q1901 Q1904 Q1902, Q1903, Q1951-Q1955 D1901, D1902, D1905-D1907	PDG158A 2SC2712 DTA143EK DTC143EK 1SS254
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Mark	No.	Description	Parts No.
	D1971-D1980, D1983 D1903 D1951-D1960		1SS254 1SS355 SLR-342MCT31

COILS AND FILTERS

L1901	LAU220J
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SWITCHES AND RELAYS

S1901-S1913	ASG1051
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CAPACITORS

C1903 (0.047F/5.5V) C1908 C1910 C1906 C1902	ACH1246 CEJA010M50 CEJA100M16 CEJA221M10 CEJA470M16
C1932, C1941 C1921, C1922 C1912 C1901, C1904, C1905, C1911	CKSQYB102K50 CKSQYB473K50 CKSQYF104Z50 CKSQYF473Z50

RESISTORS

R1937, R1938 R1913-R1916, R1931 R1917 R1909-R1912 R1904	RA15T473J RD1/6PM102J RD1/6PM222J RD1/6PM223J RD1/6PM393J
R1902 R1981-R1984, R1987-R1991 R1958, R1959 Other Resistors	RD1/6PM472J RS1/8S000J RS1/8S271J RS1/10S□□□J

OTHERS

CN1902 31P FFC CONNECTOR V1901 FL TUBE FL SPACER REMOTE RECEIVER UNIT	9604S-27C AAV7021 AEB7047 GP1U27X HLEM31S-1
CN1901 31P FFC CONNECTOR	
FL HOLDER	VNF1087
X1901	EFOEC8004A4

OPERATION-A ASSY

SEMICONDUCTORS

IC1701, IC1702 IC1703 Q1707 Q1721 Q1722-Q1727, Q1732, Q1733, Q1735	BU4094BCF XRA4558F-P DTA143EK DTC124EK DTC143EK
D1714, D1715, D1753, D1754 D1757-D1760 D1755 D1727 D1721-D1726	1SS254 1SS254 1SS355 MAA5064X MPG5064X
D1734, D1739 D1732, D1735, D1736	SLR-342DCT31 SLR-342MCT31

SWITCHES AND RELAYS

S1703-S1706, S1708, S1710-S1712 S1714-S1717	ASG1051 ASG1051
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XR-P760F

Mark	No.	Description	Parts No.
CAPACITORS			
	C1701-C1705		CCSQCH101J50
	C1755		CCSQCH561J50
	C1756, C1758		CEJA010M50
	C1760		CKSQYB682K50
	C1757, C1761, C1762		CKSQYF473Z50
RESISTORS			
	VR1751 (10k Ω -B)		VCS1021
	R1759		RD1/6PM101J
	R1737		RD1/6PM181J
	R1732, R1734, R1736		RD1/6PM271J
	R1784, R1785, R1787-R1792		RS1/8S000J
	R1731, R1733, R1735		RS1/8S271J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN1701	FFC CONNECTOR 27P	52492-2720
	JA1751	SR JACK	AKN7004
	CN1702	FFC CONNECTOR 17P	HLEM17S-1
DOOR SW ASSY			
SWITCHES AND RELAYS			
	S1762		PSG1012
JOG ASSY			
SWITCHES AND RELAYS			
	S1761		ASX1015
CAPACITORS			
	C1771, C1772		CKSQYB223K50
CD ASSY			
SEMICONDUCTORS			
	IC8151		CXA1372Q
	IC8301		CXD2508AQ
	IC8203		LA6517
	IC8201, IC8202		LA6520
	IC8001		PD4664A
	IC8401		XRA4558F-P
	Q8401, Q8402		2SD2114K
	Q8301		2SK246
	Q8302		DTA124EK
	Q8403, Q8404		DTA143EK
	D8001, D8002, D8301		1SS254
	D8401, D8402		DAN202K
	D8201		MTZJ6.2B
COILS AND FILTERS			
	L8321		LAU1R2J
	L8001		LAU220J
CAPACITORS			
	C8322		CCSQCH100D50
	C8006, C8007, C8350, C8351		CCSQCH101J50
	C8407-C8410		CCSQCH121J50
	C8323		CCSQCH220J50
	C8403-C8406		CCSQCH271J50

Mark	No.	Description	Parts No.
	C8401, C8402		CCSQCH391J50
	C8411, C8412		CEANP2R2M50
	C8004		CEAS101M10
	C8201, C8202, C8301		CEAS330M16
	C8165, C8166		CEAS4R7M50
	C8309		CEASR47M50
	C8302, C8303		CGCYX104M16
	C8162, C8321		CKSQYB102K50
	C8152, C8157, C8160		CKSQYB103K50
	C8306		CKSQYB152K50
	C8352		CKSQYB223K50
	C8161		CKSQYB332K50
	C8151, C8159		CKSQYB333K50
	C8163		CKSQYB472K50
	C8002, C8003, C8307		CKSQYB473K50
	C8164		CKSQYB561K50
	C8045, C8158, C8203-C8209, C8261		CKSQYF103Z50
	C8153-C8156, C8167, C8420, C8421		CKSQYF104Z50
RESISTORS			
	VR8151, VR8152 (22k Ω)		RCP1103
	R8013-R8015		RD1/6PM102J
	R8210, R8211		RD1/6PM104J
	R8012		RD1/6PM472J
	R8020, R8021, R8024, R8030		RD1/6PM473J
	R8039		RD1/6PM563J
	R8901		RS1/8S000J
	R8017		RS1/8S102J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN8001	FFC CONNECTOR 19P	HLEM19S-1
	CN8002	FFC CONNECTOR 22P	HLEM22S-1
	CN8201	6P SIDE POST	VKN-004
	X8301 (33.8688MHz)		ASS7000
	X8001 (4.19MHz)		VSS1014
DECK RELAY ASSY			
SEMICONDUCTORS			
	Q1702, Q1706		2SA1162
	Q1703		2SB1197K
	Q1701, Q1705		2SD1781K
	Q1704		DTC124EK
	D1701-D1713		1SS254
RESISTORS			
	All Resistors		RD1/6PM□□□J
OTHERS			
	9P CABLE HOLDER		51063-0905
	15P CABLE HOLDER		51063-1505
SUB TRANS ASSY			
SEMICONDUCTORS			
	IC101		ICP-N10
	D105, D106		MTZJ6.2B
	D101-D104		S5688G
COILS AND FILTERS			
	L101		ATF1136
TRANSFORMERS			
	T101		ATT7016

Mark	No.	Description	Parts No.
SWITCHES AND RELAYS			
<u>1</u>	RY101		ASR1027
CAPACITORS			
<u>1</u>	C101 (0.01/400V)		ACG1054
	C108		CEAS102M25
RESISTORS			
	R101 (2.2M Ω , 1/2W)		ACN-208
OTHERS			
	CN111	4P JUMPER CONNECTOR	52147-0410
	H101, H102	FUSE CLIP	AKR1003
		TERMINAL	RKC-061
	KN105	EARTH METAL FITTING	VNF1084

KUC ASSY

OTHERS			
	Y112	BOARD-IN READ WIRE	ADX7112

OPERATION-B ASSY

SEMICONDUCTORS			
	Q1731		DTC143EK
	D1738		GL1PR21
	D1733		SLR-342DCT31
	D1731		SLR-342MCT31

SWITCHES AND RELAYS			
	S1709		ASG1051

RESISTORS			
	R1738		RD1/6PM331J
	Other Resistors		RS1/10S□□□J

HEADPHONE ASSY

CAPACITORS			
	C1207, C1208		CEJA4R7M50

RESISTORS			
	R1201, R1202		RS3LMF331J

OTHERS			
		HEADPHONE JACK	AKN7003

HOME SW ASSY

SWITCHES AND RELAYS			
	S8001		DSG1048

FM/AM TUNER MODULE

SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104		2SK302
	Q6101		3SK194
	Q6204		XDA124EK

Mark	No.	Description	Parts No.
	Q6217		XDC124EK
	D6101, D6102		IT33
COILS AND FILTERS			
	L6104		ATC1003
	L6101		ATC1020
	L6102		ATC1021
	L6207 (10.7MHz)		ATE1013
	F6203, F6204		ATF-119
	F6101		ATF-155
	F6202 (450kHz)		ATF1155
	L6103 (2.2 μ H)		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225

TRANSFORMERS			
	T6101		ATE-063

CAPACITORS			
	C6202, C6234, C6236 (1 μ F/16V)		ACG1051
	C6107		CCSCH010C50
	C6229		CCSCH821J50
	C6110		CCSQCH020C50
	C6101		CCSQCH050C50

	C6108, C6203, C6268		CCSQCH101J50
	C6111, C6116, C6208, C6221, C6222		CCSQCH150J50
	C6115		CCSQCH330J50
	C6114		CCSQRH080D50
	C6113		CCSQRH180J50

	C6105		CCSQTH150J50
	C6261		CEAS010M50
	C6224, C6246, C6262		CEAS100M50
	C6227		CEAS101M10
	C6216, C6217		CEAS330M16

	C6231, C6233		CEAS3R3M50
	C6219		CEAS470M10
	C6243-C6245		CEAS470M16
	C6238		CEJA100M16
	C6249, C6250		CEJA4R7M35

	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6103, C6106, C6112, C6204		CKSQYB102K50
	C6102, C6109, C6117, C6210, C6264		CKSQYB103K50
	C6213		CKSQYB223K50

	C6230		CKSQYB333K50
	C6228, C6252		CKSQYB472K50
	C6209, C6237, C6265, C6267		CKSQYB473K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242, C6255		CKSQYF223Z50

	C6235		CKSQYF224Z25
	C6225, C6241, C6266		CKSQYF473Z50
	C6232		CKSYB333K50
	C6251		CKSYB472K50
	C6223		CKSYF103Z50

	C6263		CKSYF473Z50
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RESISTORS			
	VR6201 (10k Ω)		ACP1056
	VR6202		VRTB6VS223
	R6299, R6300		RD1/8PM102J
	R6113, R6116, R6118, R6268-R6271		RS1/8S000J
	R6275, R6276, R6278, R6283, R6284		RS1/8S000J

XR-P760F

Mark	No.	Description	Parts No.
	R6290, R6293, R6294, R6297 R6243, R6244 R6211 R6237 R6209		RS1/8S000J RS1/8S101J RS1/8S103J RS1/8S182J RS1/8S221J
	R6239 R6101 Other Resistors		RS1/8S332J RS1/8S470J RS1/10S□□□J

OTHERS

BN6201	ANTENNA TERMINAL 4-P	AKA1016
CN6201	14P SOCKET	KP200IA14L
X6203 (7.200MHz)		ASS1042
X6201 (456KHz)		ASS1066
X6202 (450kHz)		ATF1027
AM RF TUNING BLOCK		AXX1041

FRONT 100W ASSY

SEMICONDUCTORS

IC7501 Q7507, Q7508 Q7601 Q7501, Q7502 Q7505, Q7506	UPC4570G2 (5) 2SA1182 2SA1255 2SC2240 2SC2859
Q7602, Q7603 D7505, D7506, D7517, D7518 D7503, D7504, D7516 D7535-D7538 D7521-D7524	2SC3138 1SS181 1SS184 1SS226 1SS244
D7519, D7520, D7525, D7526, D7531 D7533 D7507-D7510	HSS104-02 HSS104-02 RD3.3ESB2

CAPACITORS

C7519-C7522, C7545-C7552 C7525-C7528 C7503, C7504 C7541, C7542 C7523, C7524	CCSQCH101J50 CCSQCH271J50 CCSQCH331J50 CCSQCH470J50 CEALR10M50
C7509, C7510 C7602 C7540 C7539 C7699	CEAS101M10 CEJA221M6R3 CEJA3R3M50 CEJA4R7M50 CKSQYB104K25
C7529-C7532 C7543, C7544 C7601, C7603 C7537	CKSQYB333K50 CKSQYB472K50 CKSQYF104Z50 CKSQYF473Z50

RESISTORS

<u>1</u> R7515, R7516 (1.8k Ω) R7541, R7542 R7519, R7520 <u>1</u> R7547-R7550 R7753	ACN1107 RD1/4PMF100J RN1/10SE621D RS1/10S2200F RS1/8S000J
<u>1</u> R7537-R7540 R7553 <u>1</u> R7543, R7544 Other Resistors	RS1/8S100J RS1/8S101J RS1/8S7R5J RS1/10S□□□J

Mark	No.	Description	Parts No.
		REGULATOR ASSY	
		SEMICONDUCTORS	
	IC7201 Q7301, Q7302 Q7202 D7204 D7205, D7208		PAC006C 2SC1815 2SC2712 1SS184 HSS104-02
	D7210 D7206, D7211 D7207		RB441Q-40 RD4.7ESB RD5.6ESB2

CAPACITORS

C7402, C7406, C7408 (0.082 μ F/25V) C7204 (1 μ F/16V) C7401, C7405, C7407 (0.33 μ F/50V) C7409 (10 μ F/35V) C7202	ACG1050 ACG1051 ACG1053 ACH1150 CEANL4R7M50
C7140 C7205 C7203 C7697 C7201, C7208, C7219	CEAS010M50 CEJA101M10 CEJAR33M50 CKDYB103K50 CKSQYB103K50
C7301 C7206, C7215, C7216, C7404, C7698	CKSQYB332K50 CKSQYF104Z50

RESISTORS

<u>1</u> VR7201 (22k Ω) R7403-R7405 (1 Ω) R7252 R7253 R7303	RCP1103 ACN1104 RD1/6PM102J RD1/6PM103J RS1/10S1002F
R7304 Other Resistors	RS1/10S8200F RS1/10SA+ $\bar{A}$ + $\bar{A}$ +J

OTHERS

CN7101 12P JUMPER CONNECTOR	KPE12
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MECHA PCB ASSY (AWZ7835)

SEMICONDUCTORS

Q651 D651	DTC124ES VRPG5615S
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RESISTORS

R652 (10k Ω) R651 (56k Ω) R653 (220 Ω , 1/6W) R654 (0 Ω)	ACN7011 ACN7012 DCN1062 DCN1065
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OTHERS

CN652 FPC CONNECTOR 12P CN651 MT CONNECTOR 4P CN653 22P FFC CONNECTOR	12FMZ-AST 173979-4 SLEM22R
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SENSOR PCB ASSY (AWZ7836)

SEMICONDUCTORS

D652	GP1S24
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OTHERS

J652 WIRE ASSY 3P	D20PWW0315E
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Mark No.	Description	Parts No.
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MOTOR PCB ASSY (AWZ7837)**OTHERS**

LOADING MOTOR

VXM1034

SW PCB ASSY**SWITCHES AND RELAYS**

S651, S652

VSG1006

OTHERS

J656 WIRE ASSY 3P

D20PWW0315E

MECHANISM BOARD ASSY (PWX1192)**SWITCHES AND RELAYS**

S610

DSG1016

OTHERS

CN610 MT CONNECTOR 4P

173979-4

SENSOR BOARD ASSY (AWZ7839)**SEMICONDUCTORS**

Q601-Q603

PS3322

Mark No.	Description	Parts No.
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RESISTORSR604-R606 (6.8k Ω)

ACN7010

OTHERS

CN601 6P JUMPER CONNECTOR

52151-0610

LED BOARD ASSY**SEMICONDUCTORS**

D601-D603

AN329

RESISTORSR602 (390 Ω)

ACN7007

R601 (560 Ω)

ACN7009

OTHERS

J601 WIRE ASSY 3P

D20PWW0315E

MOTOR BOARD ASSY (AWZ7841)**OTHERS**

J602 WIRE ASSY 3P

D20PWW03035E

■ CONTRAST OF PCB ASSEMBLIES**SECONDARY Assy**

AWZ7864 and AWZ7863 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7864	AWZ7863	
1	IC1001-IC1008	ICP-N50	Not used	

DISPLAY Assy

AWZ7869 and AWZ7871 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7869	AWZ7871	
	D1985	Not used	1SS254	

OPERATION-A Assy

AWZ7879 and AWZ7881 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ7879	AWZ7881	
	VR1752 (10k Ω -B) R1752 JA1752	Not used Not used Not used	VCS1021 RS1/10S472J AKN7004	

■ PARTS LIST FOR DD, DL AND YPW TYPES

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
AF ASSY (AWZ7846)					C4101, C4102		CCSQCH471J50
SEMICONDUCTORS					C4151, C4152, C4355		CCSQCH681J50
	IC2101		BU4052BCF		C4502		CCSQCH820J50
	IC4202		BU4066BCF		C257		CEANP010M50
	IC2102, IC4521		BU4094BCF		C251, C4451, C4452		CEAS010M50
	IC4421		CXA1101P		C1011		CEAS0R1M50
	IC251		M65845FP		C1012, C1019, C4359, C4360, C4364		CEAS100M50
	IC1030		NJM78M05FA		C4403-C4405, C4407, C4454		CEAS100M50
	IC2201		PM0006A		C1016, C259, C4401, C4408		CEAS101M10
	IC1502, IC1503, IC2103, IC4101, IC4301		XRA4558F-P		C1018		CEAS101M63
	Q1501, Q1502		2SA1015		C1006		CEAS102M16
	Q1051		2SA1048		C1004		CEAS102M35
	Q1002, Q1044, Q4352		2SA1560		C1224		CEAS1R5M50
	Q1005		2SA965		C1007, C4453		CEAS220M50
	Q2101		2SB1197K		C1017, C1099		CEAS221M35
	Q1503, Q1504		2SC1815		C1005		CEAS222M16
	Q4356		2SC2240		C1003		CEAS222M35
	Q1505, Q1506, Q4101, Q4102		2SC2458		C1517, C1518, C269, C4207, C4208		CEAS2R2M50
	Q4203, Q4204, Q4305, Q4306		2SC2458		C4315, C4316, C4504		CEAS2R2M50
	Q4451-Q4455, Q4501, Q4502		2SC2458		C4103, C4104, C4309, C4310		CEAS330M16
	Q4301, Q4302		2SC2878		C4317, C4318		CEAS330M16
	Q1003, Q1042, Q4353, Q4354		2SC4040		C256		CEAS331M10
	Q1403, Q4355		2SD2144S		C4357		CEAS3R3M50
	Q4307, Q4308		2SK373		C2251, C2252, C4107, C4108		CEAS470M16
	Q4456, Q4521, Q4522		DTA124EK		C1021		CEAS470M50
	Q1004, Q1041, Q1508, Q4208		DTA143EK		C2105, C2106, C4301, C4302		CEAS4R7M50
	Q4351		DTC124EK		C1503, C1504		CEASR15M50
	Q1001, Q1043, Q2102, Q4207		DTC143EK		C1014		CEASR33M50
	D1021, D1022, D1027, D1031-D1033		1SS254		C1907		CEASR47M50
	D1171, D1523, D1903, D2101, D4201		1SS254		C4402, C4406		CEASR68M50
	D4301-D4306, D4310, D4401, D4402		1SS254		C4303, C4304		CEJA010M50
	D4551, D4552		1SS254		C1039		CFTXA105J50
<u>!</u>	D1003		D2SBA20 (B)		C4512		CKCYB101K50
<u>!</u>	D1001		D5SB20F		C4363		CKCYB222K500
	D1023		MTZJ33B		C2202, C2203		CKSQYB102K50
	D1521, D1522		MTZJ4.7B		C4352, C4354, C4503		CKSQYB103K50
	D1151, D1152, D201		MTZJ5.1B		C265, C266		CKSQYB104K25
	D1010		MTZJ7.5B		C4209		CKSQYB122K50
<u>!</u>	D1007, D1008, D1036-D1039		S5688G		C4411, C4412		CKSQYB152K50
	D1040, D1041, D1044		S5688G		C4313, C4314		CKSQYB182K50
COILS AND FILTERS					C4501		CKSQYB223K50
	L4301, L4302		LTA472J		C4307, C4308		CKSQYB273K50
	L4303, L4304		LTA822J		C4305, C4306		CKSQYB333K50
	F4401, F4402		RTF1209		C260		CKSQYB473K25
TRANSFORMERS					C2201, C252, C264		CKSQYB562K50
	T4351		ATX-043		C253, C261		CKSQYB563K25
CAPACITORS					C263, C275		CKSQYB683K25
	C4361 (2000pF/630V)		ACE1020		C2204, C2206		CKSQYB822K50
	C1009 (0.01 μ F/150V)		ACG1005		C1301-C1304, C2120, C2121		CKSQYF104Z50
	C1001, C1002 (4700 μ F/63V)		ACH7007		C2208-C2210, C258		CKSQYF104Z50
	C4319, C4320		CCCSL271K500		C4409, C4410		CQMA103J50
	C4323, C4324		CCSQCH100D50		C4358		CQMA123K250
	C1526-C1528, C271, C4511, C4513		CCSQCH101J50		C4356		CQMA153J50

Mark No.	Description	Parts No.
RESISTORS		
	VR1701 (2.2k Ω)	PCP1025
	VR4201-VR4204 (22k Ω)	PCP1030
	VR4301, VR4302 (4.7k Ω)	RCP1139
	VR4351, VR4352 (220k Ω)	RCP1142
	R4352	RD1/2PM102J
	R267	RD1/2PM161J
	R1160, R1162, R4353	RD1/2PM470J
	R1044	RD1/2PM561J
	R4357	RD1/2PM6R8J
	R1153	RD1/4PM102J
	R1042	RD1/4PM182J
	R1002	RD1/4PM272J
	R1157	RD1/4PM472J
	R1159, R1161	RD1/4PM680J
	R1301, R1303	RD1/4PMF7R5J
	R1021	RD1/6PM102J
	R1003, R4112, R4325, R4326, R4416	RD1/6PM103J
	R4223, R4521-R4523	RD1/6PM222J
	R1151	RD1/6PM472J
	R4113, R4114, R4323, R4324	RD1/6PM820J
	R1223	RS1LMF222J
	R1023	RS3LMF220J
	R1007, R1017	RS3LMFR22J
	Other Resistors	RS1/10S□□□J

OTHERS

	12P CABLE HOLDER	51063-1205
Y1		ADX7039
JA2101	2P PIN JACK	AKB7043
CN2104	SPEAKER TERMINAL 4P	AKE7017
CN4003	2P TOP POST	B2B-EH
CN4002	3P TOP POST	B3B-EH
CN4001	3P TOP POST	B3B-EH-R
CN2	17P FFC CONNECTOR	HLEM17S-1
CN3	19P FFC CONNECTOR	HLEM19S-1
CN1	31P FFC CONNECTOR	HLEM31S-1
CN10	11P PLUG	KM200IB11
CN9	14P PLUG	KM200IB14
JA2103	REMOTE CONTROL JACK	RKN1004
	PCB BINDER	VEF1040
JA2102	2P PIN JACK	VKB1050

PRIMARY ASSY (AWZ7899)

COILS AND FILTERS

$\perp$	L1101	ATF-151
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CAPACITORS

$\perp$	C1101 (0.01/AC250)	ACG7005
---------	--------------------	---------

OTHERS

H1101-H1106	FUSE CLIP	AKR1003
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PRIMARY ASSY (AWZ7900)

COILS AND FILTERS

$\perp$	L1101	ATF-151
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CAPACITORS

$\perp$	C1101 (0.01/AC400)	ACG1054
---------	--------------------	---------

OTHERS

H1105, H1106	FUSE CLIP	AKR1003
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5. ADJUSTMENTS

5.1 TUNER SECTION

■ FM Tuner Section

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

Step No.	Adjustment Title	FM SG (1kHz, ± 75 kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB μ V)			
1	Center Adjustment	98 Non modulation	80 or more	—	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or $\oplus$ leads of C6224 and C6261) becomes $0V \pm 50mV$.
2	Front End Sencitivity	98	10-30	98MHz	L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or $\oplus$ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM $\rightarrow$ FM.

■ AM Tuner Section

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

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dB μ V/m)			
1	TUNED IND. Lighting Level	999	47 ± 2	999kHz*1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

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

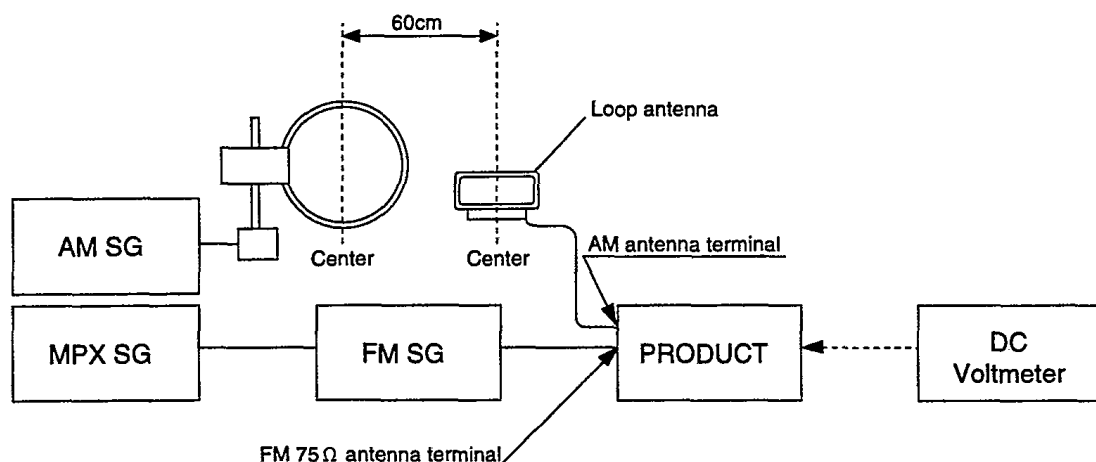


Fig. 1-1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE (AXQ1012)

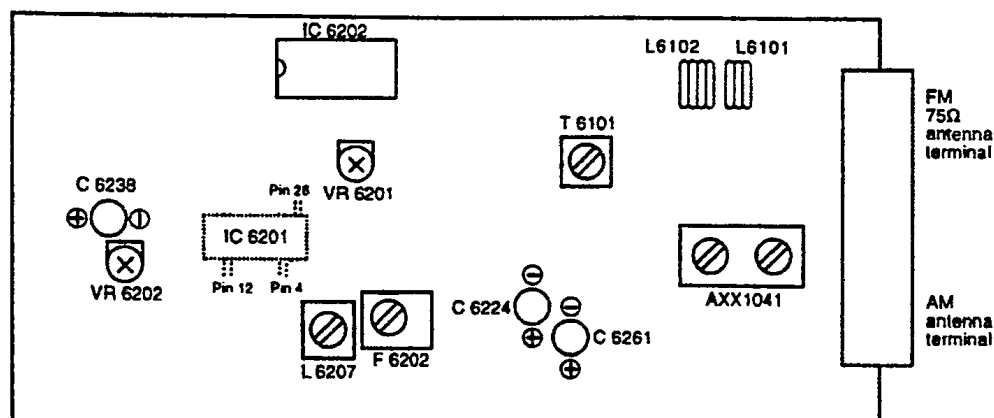


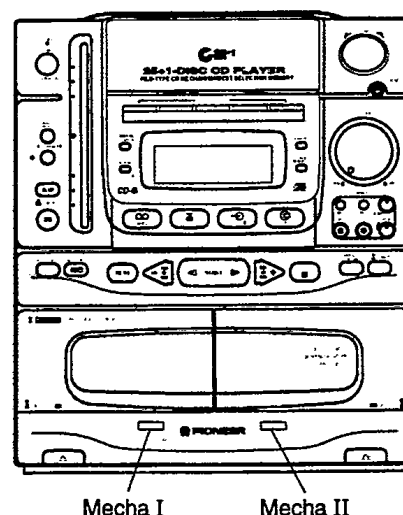
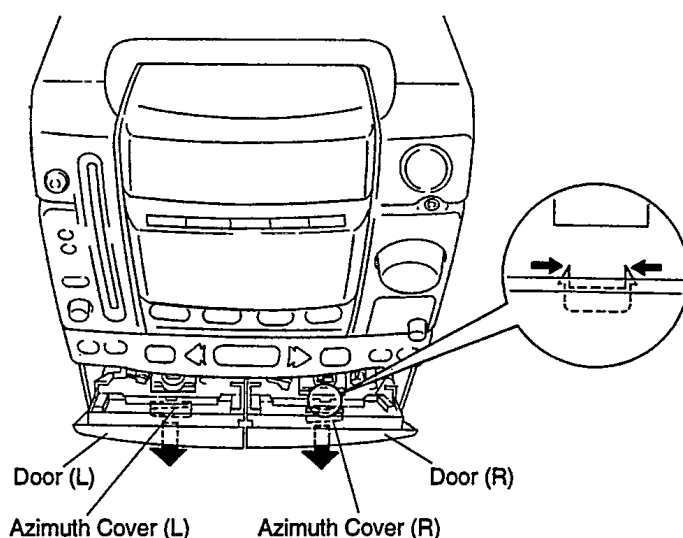
Fig. 1-2 Adjustment Points

5.2 CASSETTE DECK SECTION

● Adjustment points and test points are shown in Fig. 2-3 and Fig. 2-4.

■ Before Adjustment

1. For execution of head angle adjustment, first remove the azimuth covers (L) and (R).
2. Open the cassette doors (L) and (R).
3. Insert your fingers into the cassette door, push down the two hooks at the upper side of the azimuth cover, and push them slightly out to the front. Excessive pushing at this time may make it impossible to close the cassette door.
4. Confirm that the azimuth covers (L) and (R) have been pushed out a little to the front, and then close the cassette doors (L) and (R) and remove the azimuth covers.



■ Mechanical Adjustment

● Test tape: STD-301 (3kHz, 30min).

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	STD-301 (Playback: 3kHz)	AF Assy VR1701	TAPE TEST POINT (Rch) (AF Assy)	Press the PLAY SW and adjust so that the reading becomes 3000Hz $\pm$ 20Hz. Confirm that wow & flutter level is below 0.2% (in the reverse direction, confirm that the reading is within 3000Hz $\pm$ 60Hz).	

XR-P760F

■ Electrical Adjustment

Check the following before starting.

1. Confirm that the tape speed adjustment has been completed.
2. Clean the heads and demagnetize them using a head eraser.
3. Set the measurement level to 0 dBV = 1 Vrms.
4. Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
STD-331E: For playback adjustment
STD-631or STD-632: Normal blank tape
5. Provide yourself with the following measuring devices:
 - AC millivoltmeter
 - Low-frequency oscillator
 - Attenuator
 - Oscilloscope
6. Adjust both right and left channels unless otherwise specified.
7. Turn the DOLBY NR switch off unless otherwise specified.
8. Warm up the unit for several minutes before adjustment.
In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
9. Always follow the indicated adjustment order.
Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (Decks I and II)

1. Head Azimuth Adjustment
2. Playback Level Adjustment

Recording Adjustment (Deck II)

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

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

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

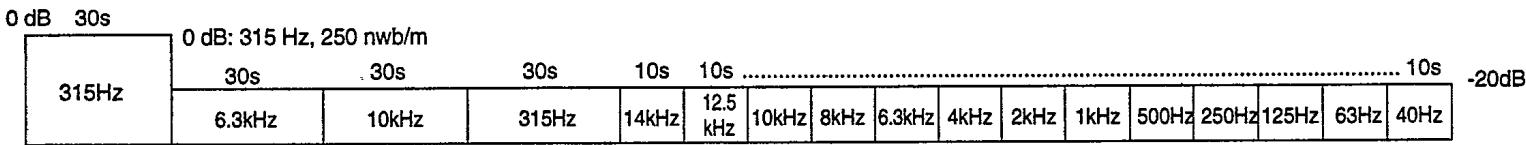


Fig. 2-1 STD-331E Test Tape

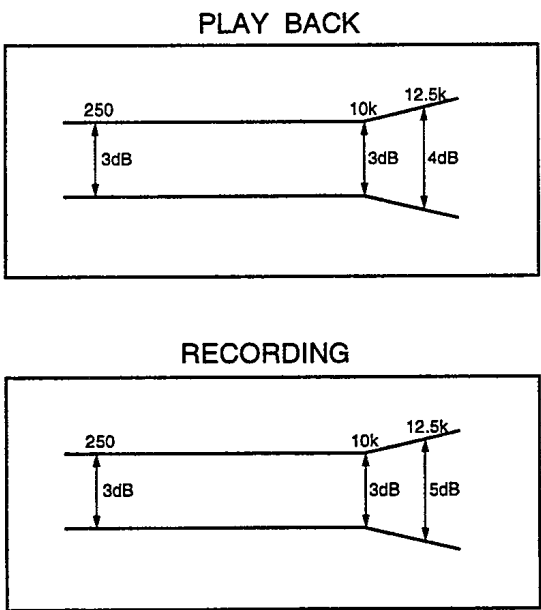


Fig. 2-2 Frequency Characteristics

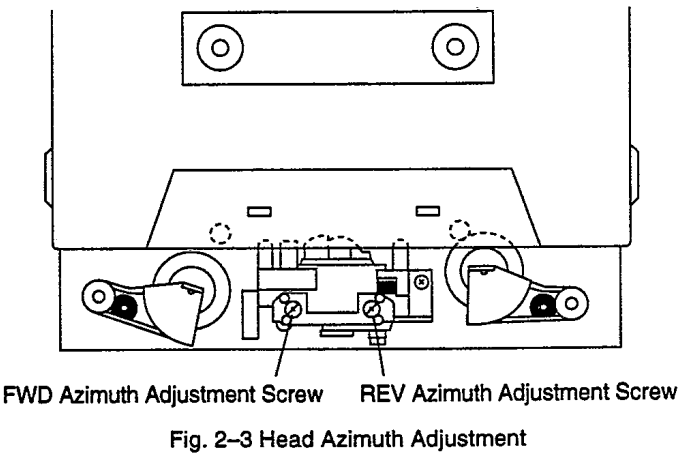


Fig. 2-3 Head Azimuth Adjustment

■ Playback Adjustment

1. Head Azimuth Adjustment

- This unit is equipped with auto tape selector.
- Do not switch between forward and reverse operation with the screwdriver inserted.

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback: 10kHz, -20dB)	Deck I	Head azimuth adjustment screw (Fig. 2-3)	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	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	PLAY	STD-331E test tape (Playback: 315Hz, 0dB)	Deck I	VR4203 (Lch) VR4204 (Rch)	TAPE TEST POINT (L, Rch) (AF Assy)	- 4.2 dBV	
				Deck II	VR4201 (Lch) VR4202 (Rch)			

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

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

■ Recording Adjustment

1. Bias Oscillation Frequency Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Load the STD-631 or STD-632 test tape and set the recording mode.	Deck I	—————	—————	Oscillation frequency to be 105.0kHz ±2kHz.	When the power is turned ON while the MEMORY button is depressed, the frequency will decrease 2 – 3 kHz.
				Deck II	T4351	Between ④ point in Fig. 2-4 and GND.		

2. Recording Bias Adjustment

- Since this adjustment affects recording bias, prevent distortion from increasing due to underbias.

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the AUX/CD II terminal and set the input selector to AUX/CD II.	Deck I	—————	TAPE TEST POINT (L, Rch) (AF Assy)	- 25.2 dBV	
				Deck II	Input signal level			
2	NORMAL	REC→PLAY	Load the STD-631 or STD-632 test tape and record/playback the 315Hz and 10kHz signals. (see the Note below)	Deck I	—————	TAPE TEST POINT (L, Rch) (AF Assy)		Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.
				Deck II	VR4351 (Lch) VR4352 (Rch)			

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

3. Recording Level Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC	Input a 315Hz signal to the AUX/CD II terminal and set the input selector to AUX/CD II.	Deck I	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	- 8.2 dBV	
				Deck II				
2	NORMAL	REC → PLAY	STD-631 or STD-632 test tape and record/playback the 315Hz signal.	Deck I	—	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes -8.2dBV.	
				Deck II	VR4301 (Lch) VR4302 (Rch)			

4. ALC Operation Check

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

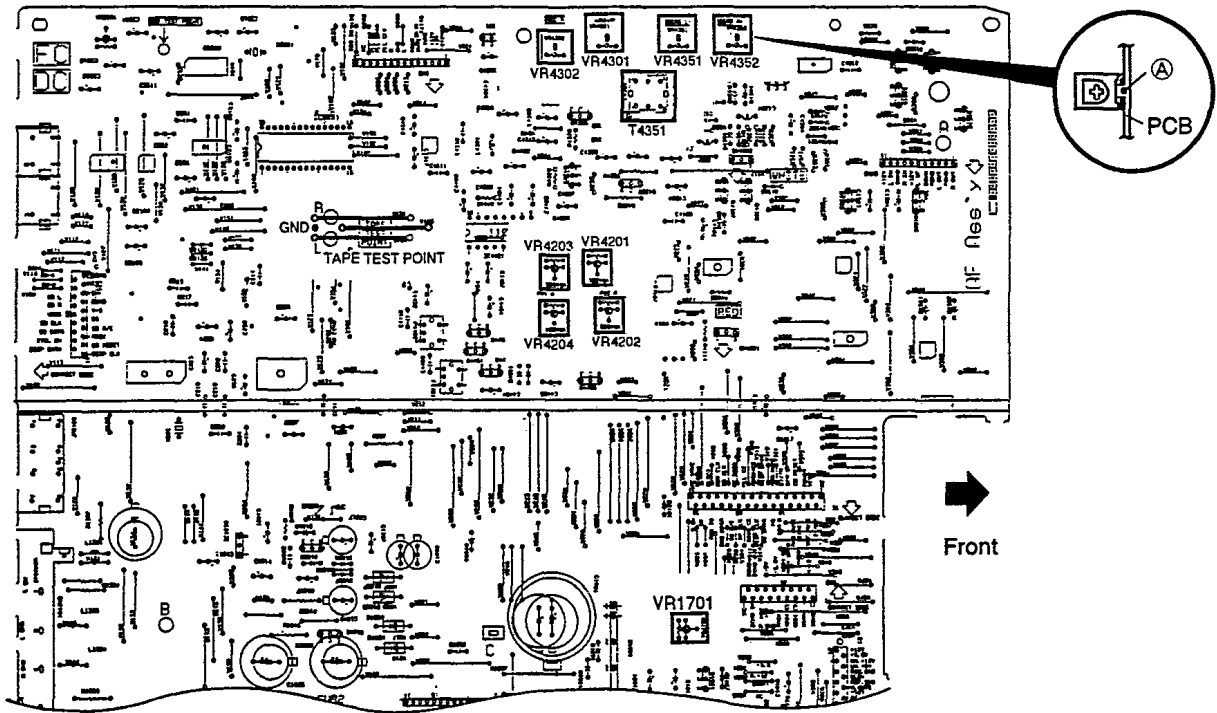


Fig. 2-4 Adjustment and Measurement points

5.3 POWER AMP MODULE SECTION (Refer to Fig . 3-1.)

1. Handling Precautions

- Since the heat sink and transistor metallic parts are connected to the Front Amp output, make sure they do not contact the GND (chassis) or other circuits.
- Since there is residual high voltage in the Power Amp Module $\pm B1$ (FRONT 100W ASSY) and $\pm B2$ (REGULATOR ASSY) even when the power is OFF, caution should be exercised. (If necessary, the voltage should be discharged).
- When handling the Power Amp Module, make sure you do not touch the fan motor blade.

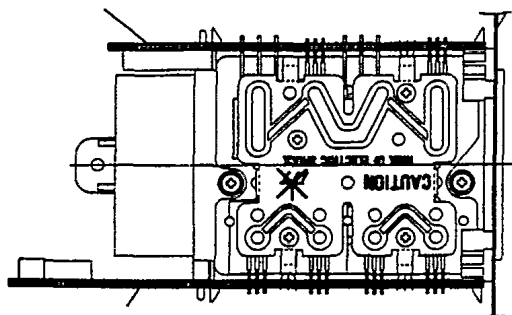
2. Adjustment and Confirmation of Idle Current

- Basically, the idle current needs to be confirmed when replacing a power transistor, driver transistor, or bias transistor, or when the entire split board Assy of the Power Amp Module has been replaced.
- Make sure the heat sink has cooled sufficiently before measuring the idle current. (Temperature should be the same as room temperature; 25°C is ideal, if possible.)
- Idle current stipulated value: 3–100mA.

■ Front Amp Side (FRONT 100W ASSY)

Step	Measurement	Item	Remarks
1	Lch side	Insert a resistor (0.22 Ω , 3W or more) in series in the connector CN7502 +B1 (or-B1) line (terminal No. 5 or 6). (Refer to Fig. 3-2.)	For measuring voltage at both sides of resistor
2		Short both sides of C7524.	Do not operate Rch side.
3		Turn the power ON, wait 6 seconds, and then measure the resistance voltage in Step 1.	Lch Idle current $I=V/0.22$ (Ω)
4	Rch side	● Same as Step 1 above. ● Short both sides of C7523.	Do not operate Lch side.
5		Turn the power ON under the above conditions, and after 6 seconds measure the resistance voltage in Step 1.	
6	——	If the measured idle current is greater than 100mA, perform the following procedure.	
7	Lch side	Short between the Point ㉑ pattern in Fig. 3-3 using solder.	Connect R7517 to R7515 in a parallel circuit.
8	Rch side	Short between the Point ㉒ pattern in Fig. 3-3 using solder.	Connect R7518 to R7516 in a parallel circuit.
9	——	After performing Steps 7 and 8, remeasure the idle current and confirm that it is below 100mA.	
10	——	If the idle current is below 3mA, perform the following procedure.	
11	Lch side	Short between the point ㉓ pattern in Fig.3-3 using solder.	Connect R7551 to R7519 in a parallel circuit.
12	Rch side	Short between the point ㉔ pattern in Fig.3-3 using solder.	Connect R7552 to R7520 in a parallel circuit.
13	——	After performing step 11 and 12, remeasure the idle current and confirm that it is greater than 3mA (within 3–100mA).	

FRONT ASSY FOR 100W (Front Amp Side)



REAR REGULATOR ASSY (Rear Amp Side)

Fig. 3-1 PCB Location of Power Amp Module

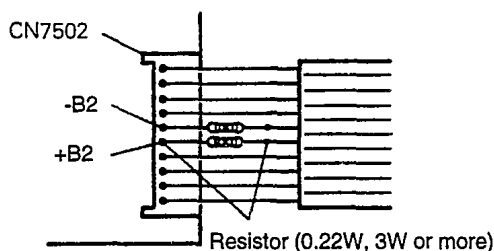


Fig. 3-2 FRONT 100W ASSY

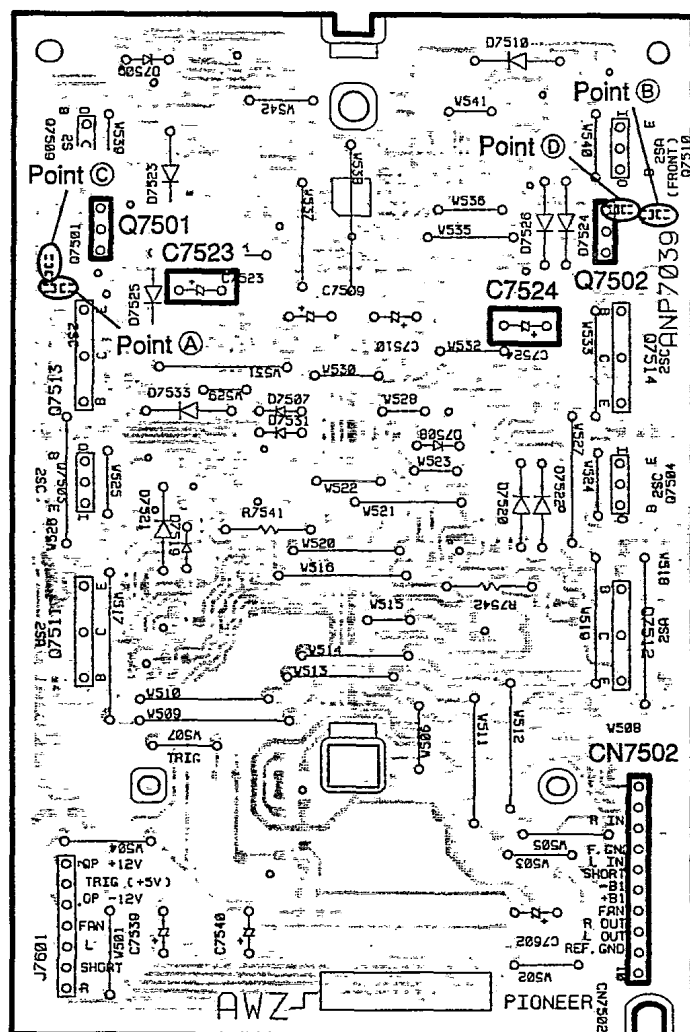


Fig. 3-3 FRONT 100W ASSY

3. Adjusting the Operating Temperature Setting of the Fan Motor (VR7201)

This adjustment is necessary when IC7401 (+12V regulator), Q7301 and Q7302 (temperature sensors), IC7201 (protection IC) or VR7201 has been replaced, or when the entire split board Assy of the Power Amp Module has been replaced.

■ Adjustment-Related Cautions

- Make sure the heat sink has sufficiently cooled (is the same as room temperature T_a .)
- Once the power has been turned ON, make measurements and adjustments as quickly as possible. (If too much time is taken, the heat sink temperature will rise, and the measurements will deviate from the T_a measurement point.)

■ Adjustment

1. Connect a voltmeter between VTEMP and VL (or between IC7201 terminals No.9 and 7). (Refer to Fig. 3-4.)
2. Determine the fan motor operating temperature setting by means of the following formula. (Tolerance is within $\pm 30\text{mV}$.)

Formula: $(75^{\circ}\text{C} - T_a) \times 19 \text{ (mV)}$

Ta: ambient temperature (°C)

- Adjust VR7201 so that the voltage between VTEMP and VL is the value obtained from the above formula.

For example:

when the room temperature is 25°C,

$$\text{set value} = (75 - 25) \times 19 \text{ (mV)}$$

= 950mV (tolerance within $\pm 30\text{mV}$).

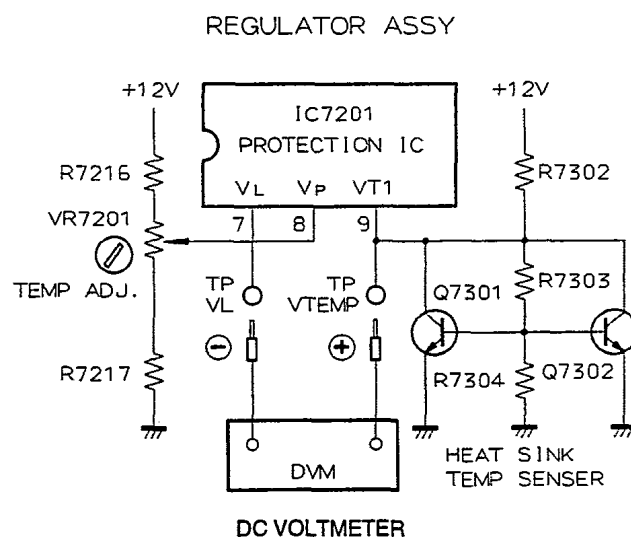
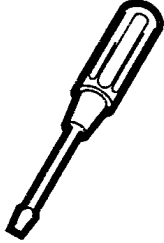
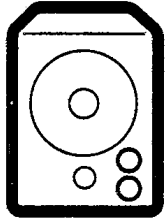
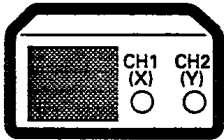
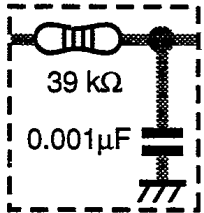


Fig. 3-4 Adjustment of Operating Temperature Setting of Fan Motor

5.4 CD SECTION (CD部の調整)

1. PREPARATIONS (準備)

1.1 Jigs and Measuring Instruments (使用測定器/治工具類)

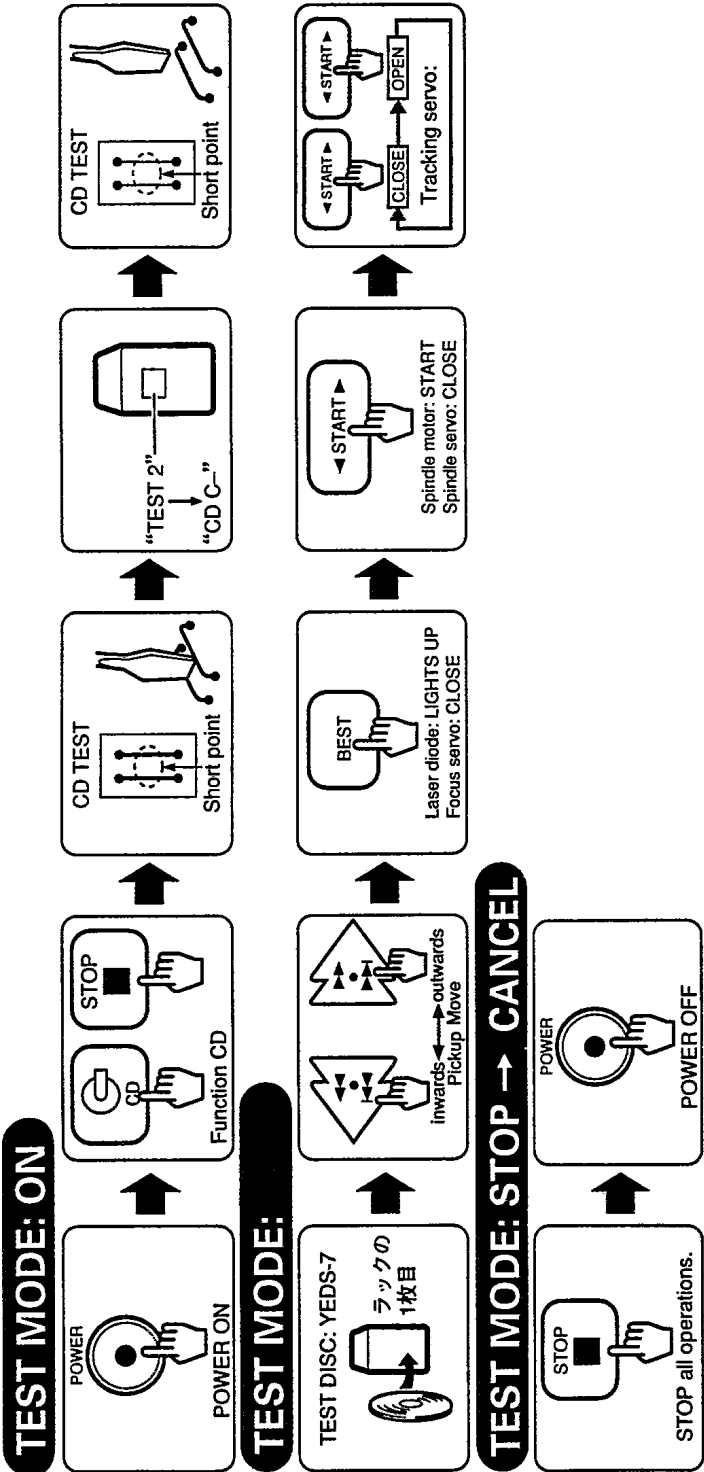
 CD TEST DISC (YEDS-7)	 ⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)
 ⊕ screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39 kΩ + 0.001μF)

1.2 Necessary Adjustment Points (調整に必要な項目)

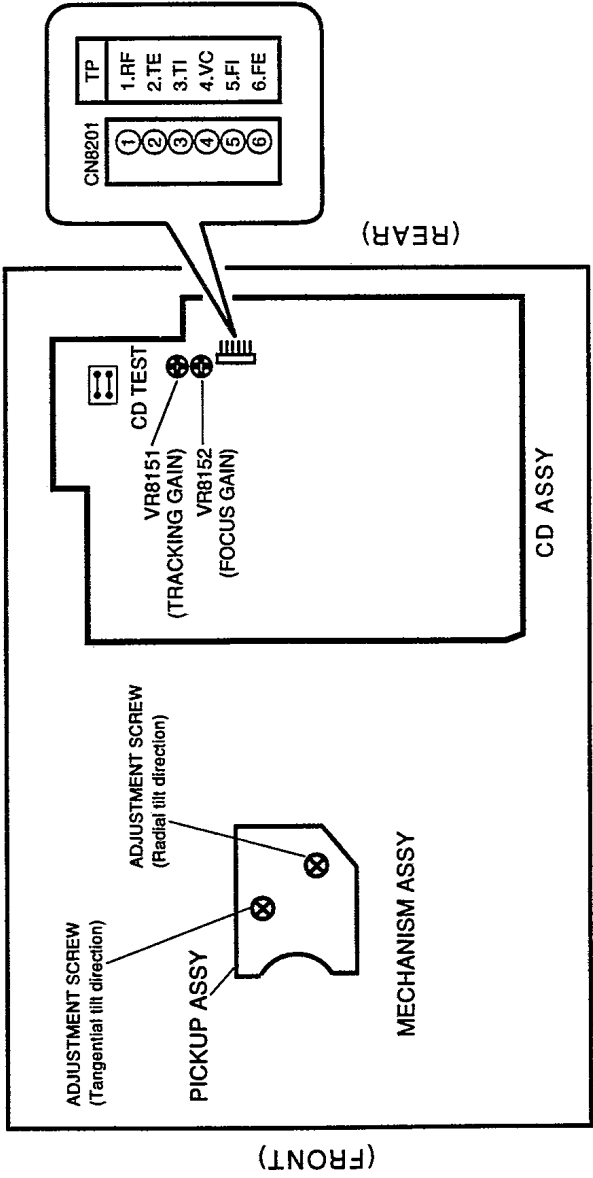
When (このような時)	Adjustment points
Exchange PICKUP (ピックアップを交換した時)	1.2.3.4.5.6. → Page 75~77
Exchange CD ASSY (CD ASSYを交換した時)	1.2.3.4.5.6. → Page 75~77
Exchange SERVO MECH ASSY (サーボメカ ASSYを交換した時)	1.2.3.4.5.6. → Page 75~77
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	 ADJ → Page 19

2. ADJUSTMENT (調整)

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



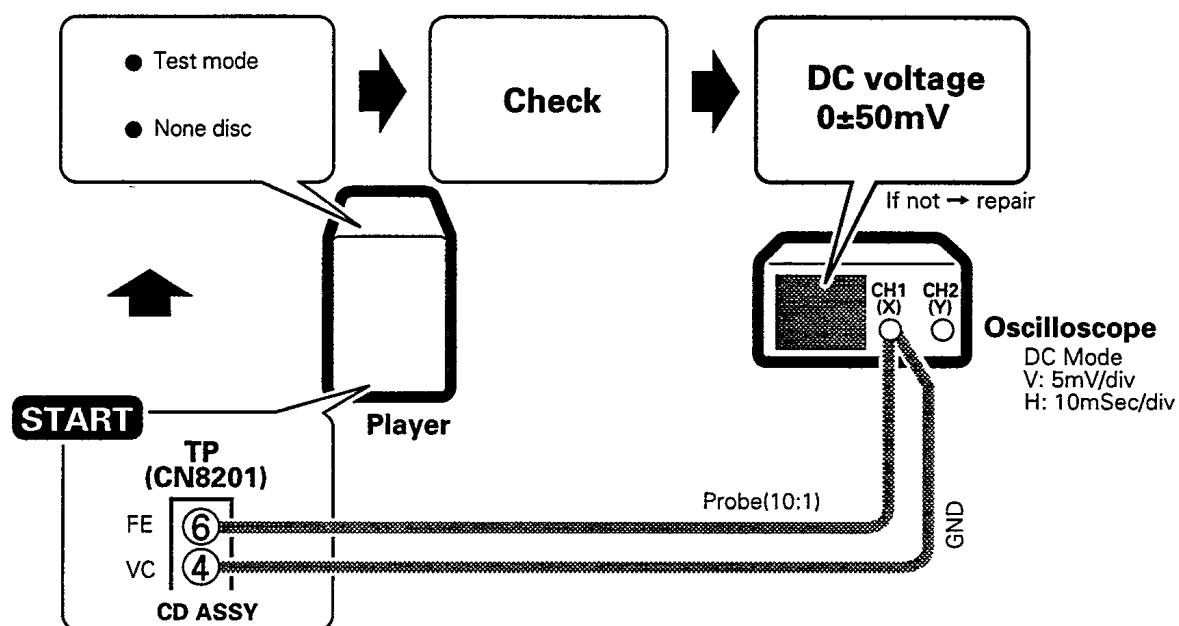
2.2 Adjustment Locations (テストポイントと調整用VRの位置)



2.3 Check and Adjustment (確認、調整)

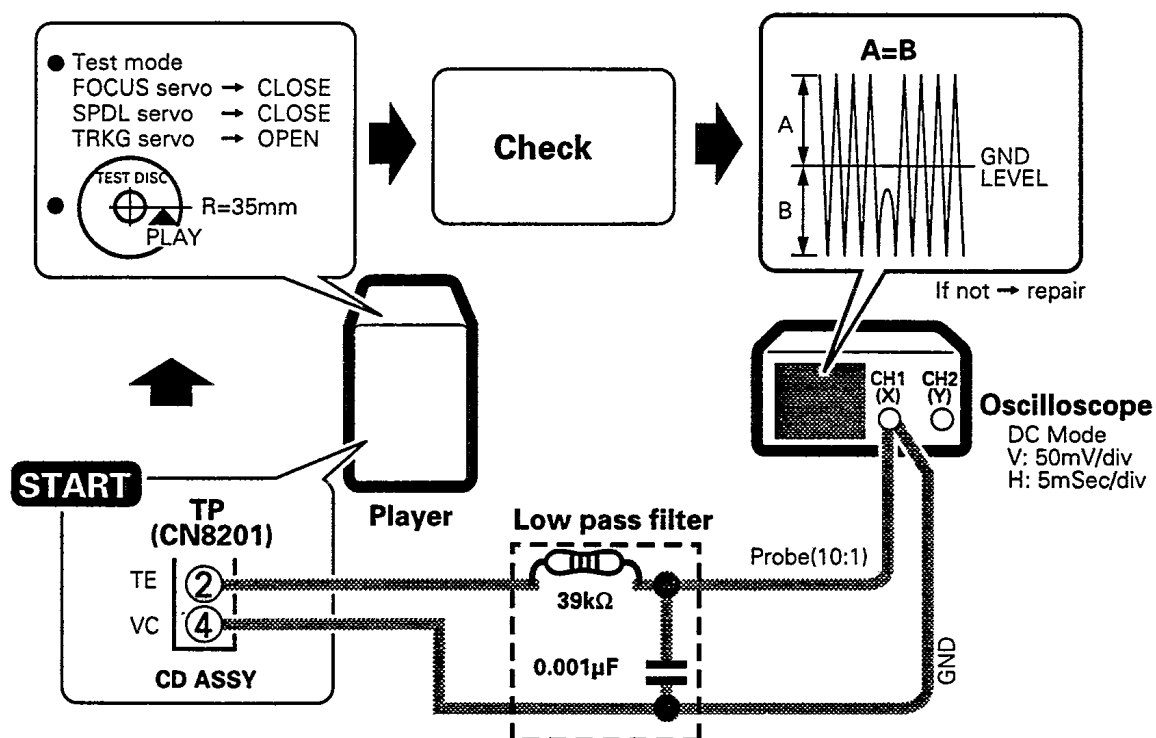
1. Focus Offset Check

(フォーカスオフセット確認)



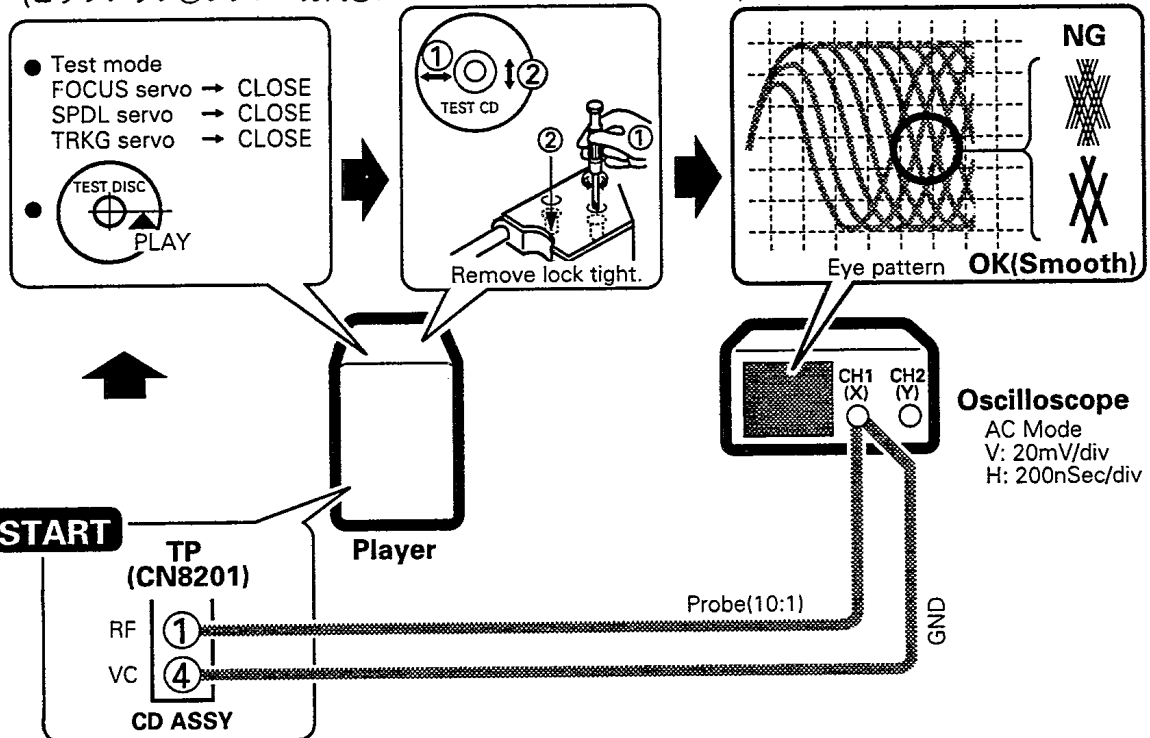
2. Tracking Error Balance Check

(トラッキングエラーバランス確認)



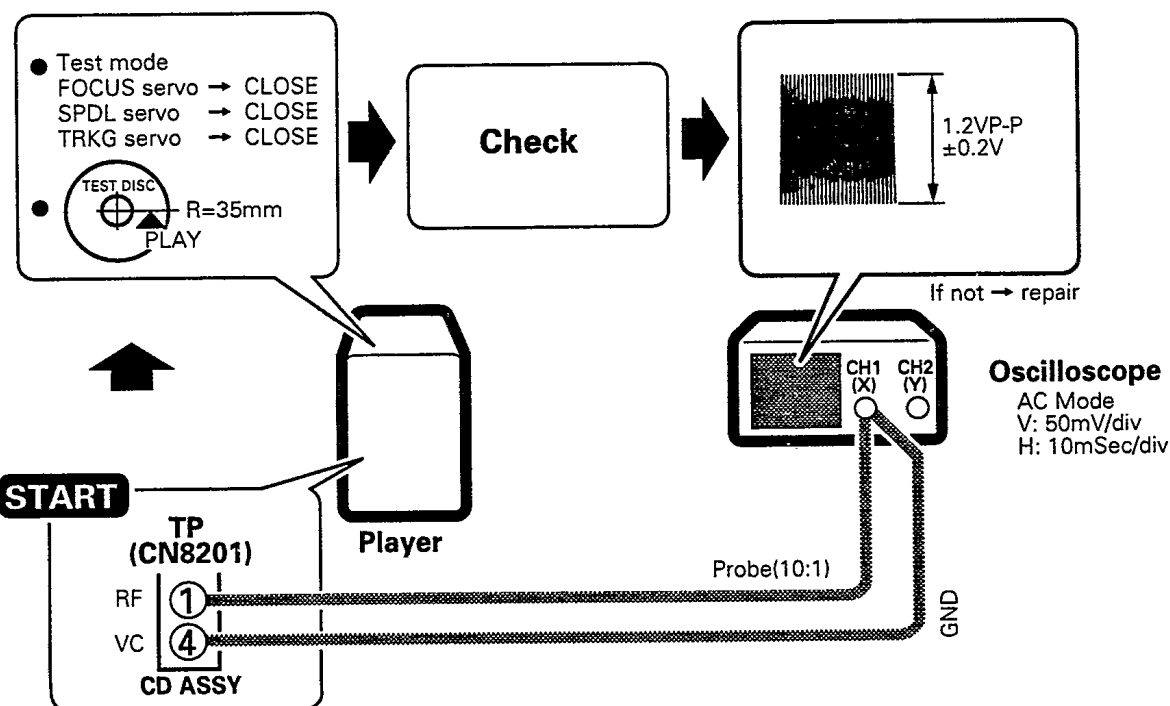
3. PICKUP ①RADIAL / ②TANGENTIAL DIRECTION TILT ADJUSTMENT

(ピックアップ①ラジアル方向②タンジェンシャル方向の傾き調整)



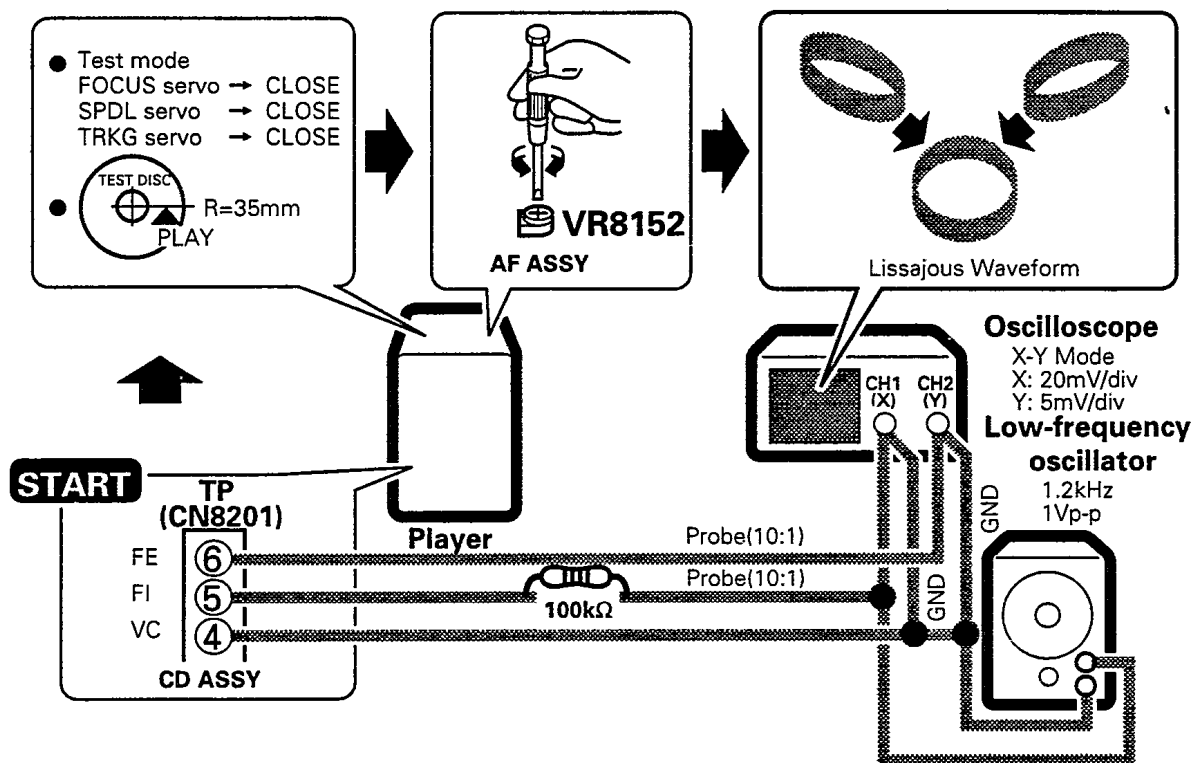
4. RF LEVEL CHECK

(RFレベル確認)



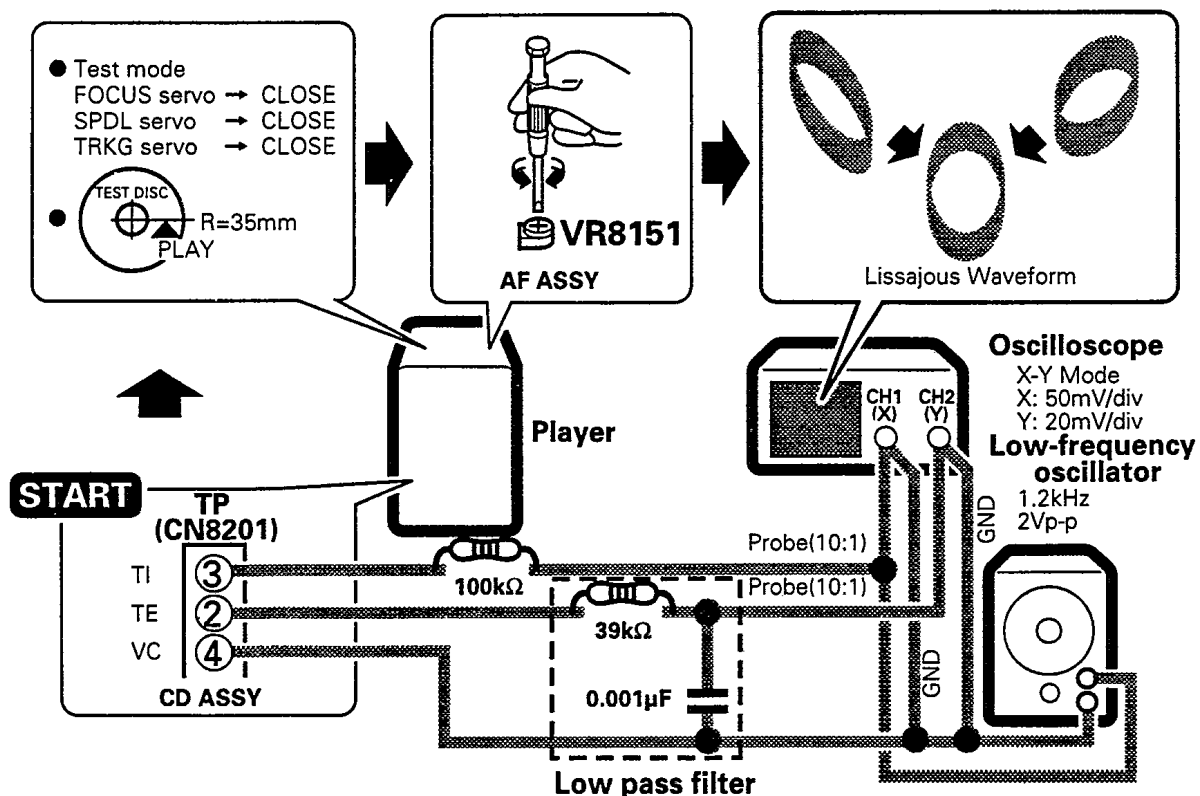
5. Focus Servo Loop Gain Adjustment

(フォーカサーボループゲイン調整)



6. Tracking Servo Loop Gain Adjustment

(トラッキングサーボループゲイン調整)



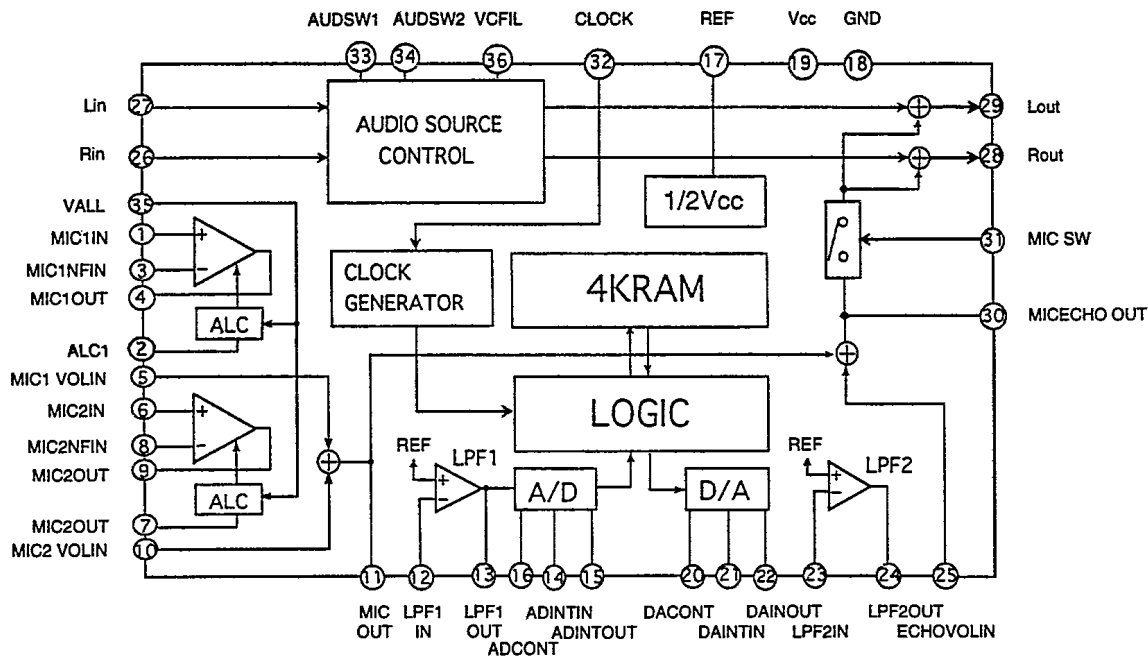
6. IC INFORMATION

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

■ M65845FP (IC251 : AF ASSY)

● Digital Echo (built-in Mic Mixing Circuit)

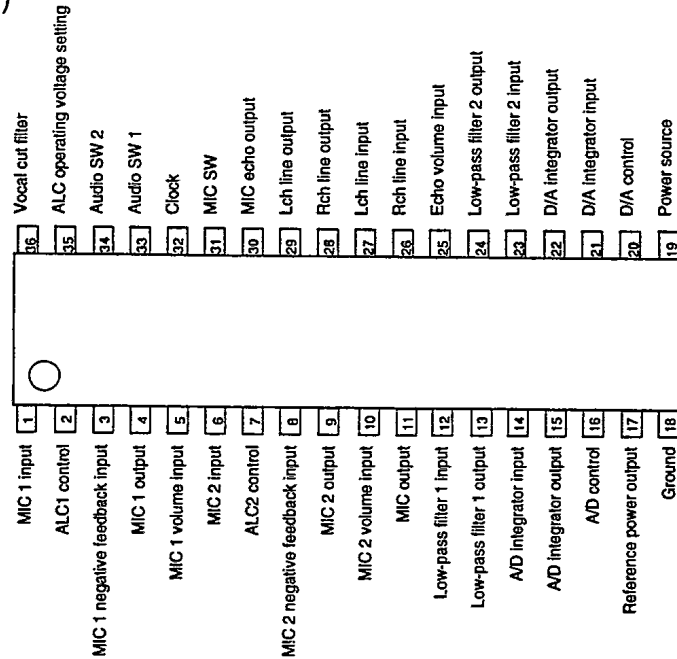
● Block Diagram



● Pin Function

No.	Pin Name	Pin Function	Description
1	MIC1IN	MIC 1 input	Connects MIC 1.
2	ALC1	ALC1 control	Connects condenser for setting ALC attack/recovery time.
3	MIC1NFIN	MIC 1 negative feedback input	Sets MIC 1 amp gain according to feedback circuit.
4	MIC1OUT	MIC 1 output	
5	MIC1VOLIN	MIC 1 volume input	Input after attenuation at outside MIC volume
6	MIC2IN	MIC 2 input	Connects MIC 2.
7	ALC2	ALC2 control	Connects condenser for setting ALC attack/recovery time.
8	MIC2NFIN	MIC 2 negative feedback input	Sets MIC 2 amp gain according to feedback circuit.
9	MIC2OUT	MIC 2 output	
10	MIC2VOLIN	MIC 2 volume input	Input after attenuation at outside MIC volume
11	MICOUT	MIC output	MIC 1 and MIC 2 mixing output
12	LPF1IN	Low-pass filter 1 input	Pre-filter before A/D conversion for digital echo
13	LPF1OUT	Low-pass filter 1 output	
14	ADINTIN	A/D integrator input	Configures integrator for A/D conversion according to outside condenser.
15	ADINTOUT	A/D integrator output	

● Pin Assignment (Top View)



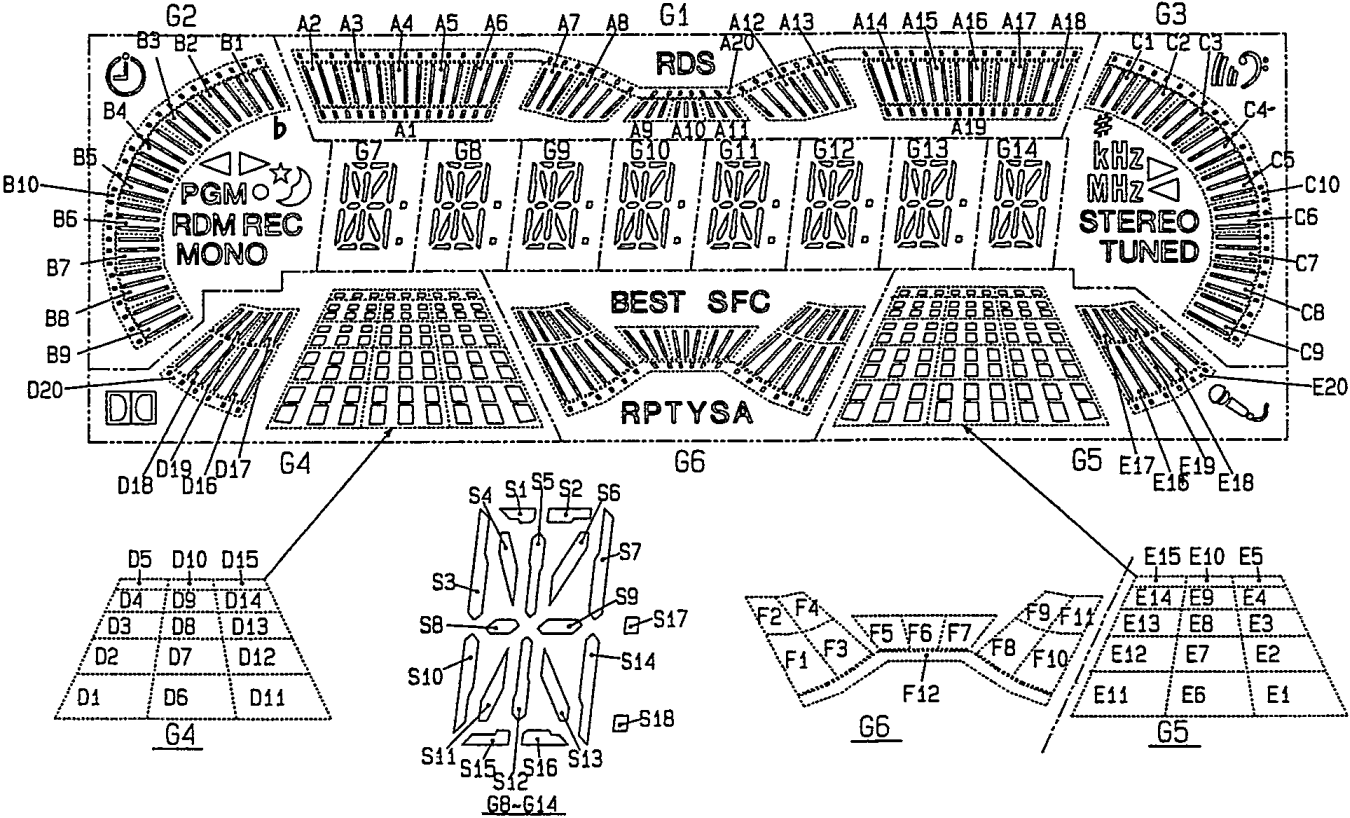
No.	Pin Name	Pin Function	Description
16	ADCONT	A/D control	Sets adaptive time constant of ADM method A/D conversion.
17	REF	Reference power output	Connects 1/2 Vcc output and filter condenser.
18	GND	Ground	
19	Vcc	Power source	
20	DACONT	D/A control	Sets adaptive time constant of ADM method D/A conversion.
21	DAINTIN	D/A integrator input	Configures integrator for D/A conversion according to outside condenser.
22	DAINTOUT	D/A integrator output	
23	LPF2IN	Low-pass filter 2 input	Post-filter before D/A conversion for digital echo
24	LPF2OUT	Low-pass filter 2 output	
25	ECHOVOLIN	Echo volume input	Input after attenuation at outside MIC volume
26	RLINEIN	Rch line input	
27	LLINEIN	Lch line input	
28	RLINEOUT	Rch line output	MIC system and line system mixing output
29	LLINEOUT	Lch line output	
30	MICECHOOOUT	MIC echo output	MIC source audio and echo mixing output
31	MICSW	MIC SW	L: MIC OFF H: MIC ON
32	CLOCK	Clock	CR oscillator: Built-in buffer for oscillation
33	AUDSW1	Audio SW 1	Audio selector switch: Switches audio signals through operation of audio switches 1 and 2 to L and H settings.
34	AUDSW2	Audio SW 2	
35	VALC	ALC operating voltage setting	Sets ALC operating voltage according to applied voltage value.
36	VCFIL	Vocal cut filter	Changes frequency components lower than vocal band to Through signals.

7. FL INFORMATION

■ AAV7021 (V1901: DISPLAY ASSY)

● FL Tube

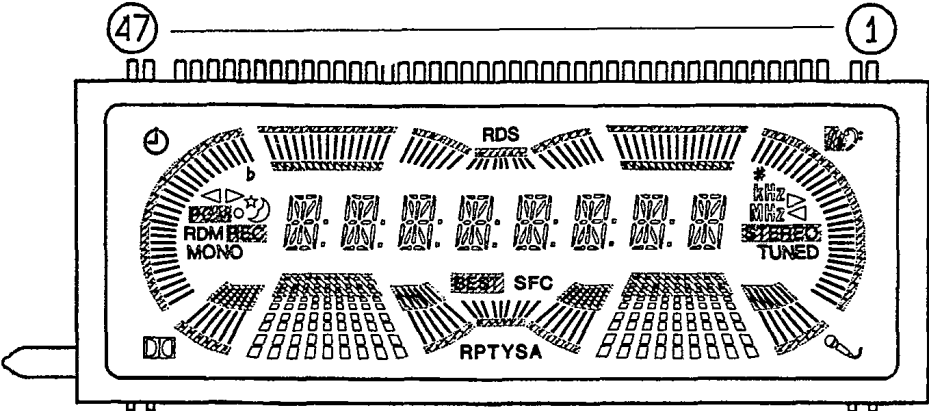
● Grid and Segment assignment



● Anode Connection

	G1	G2	G3	G4	G5	G6	G7~G14
S1	A1	B1	C1	D1	E1	F1	S1
S2	A2	B2	C2	D2	E2	F2	S2
S3	A3	B3	C3	D3	E3	F3	S3
S4	A4	B4	C4	D4	E4	F4	S4
S5	A5	B5	C5	D5	E5	F5	S5
S6	A6	B6	C6	D6	E6	F6	S6
S7	A7	B7	C7	D7	E7	F7	S7
S8	A8	B8	C8	D8	E8	F8	S8
S9	A9	B9	C9	D9	E9	F9	S9
S10	A10	B10	C10	D10	E10	F10	S10
S11	A11	◁	kHz	D11	E11	F11	S11
S12	A12	▷	MHz	D12	E12	F12	S12
S13	A13	o	▷	D13	E13	BEST	S13
S14	A14	☆	◁	D14	E14	SFC	S14
S15	A15	PGM	STEREO	D15	E15	R	S15
S16	A16	RDM	TUNED	D16	E16	P	S16
S17	A17	REC	#	D17	E17	T	S17
S18	A18	MONO	♪	D18	E18	Y	S18
S19	A19	b	♯	D19	E19	S	
S20	A20	⌚	♯	D20	E20	A	
S21	RDS						

● Pin Assignment



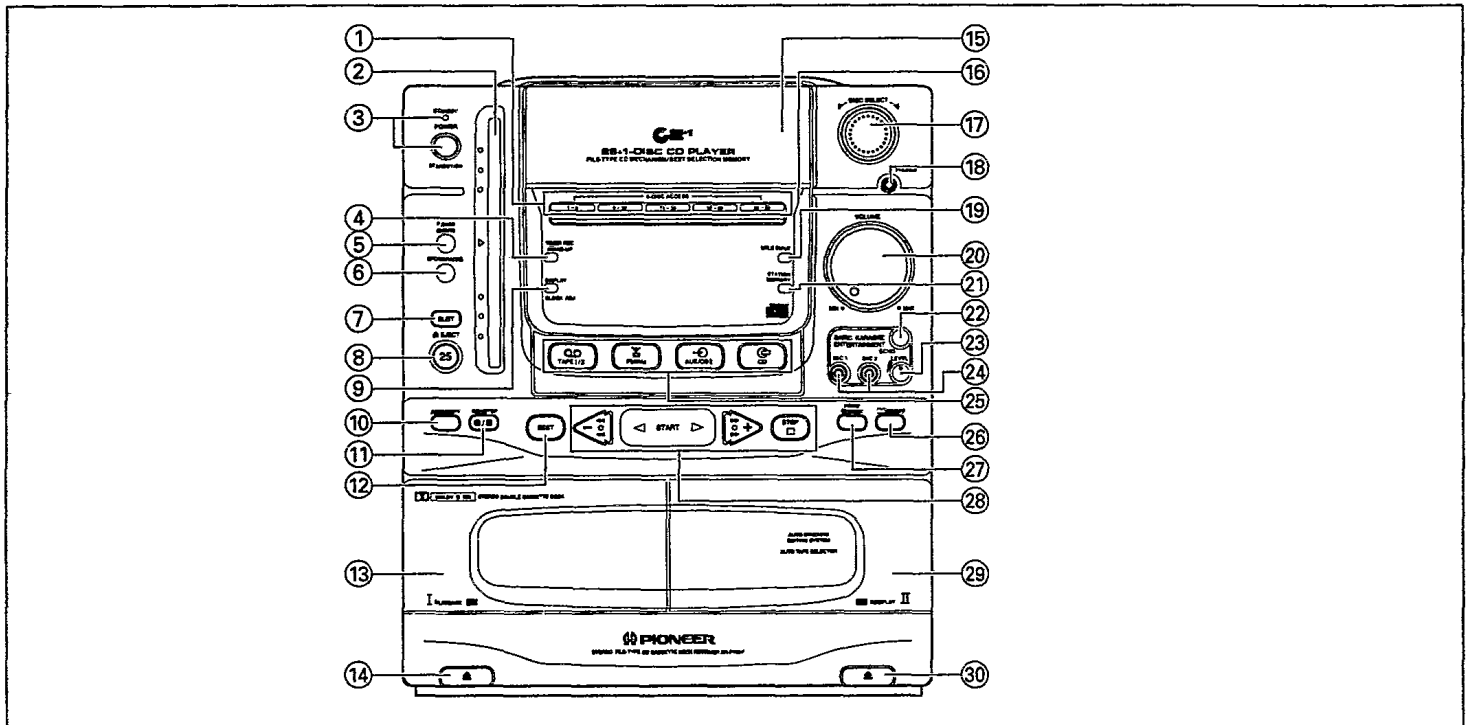
● Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assignment	F1	F1	NP	NL	NL	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	NL	S21	S20	S19	S18

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Assignment	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	S1	NL	NL	NL	NP	F2	F2

F1, F2: Filament G1~G14: Grid S1~S21: Anode NP: No Pin NL: No Lead

8. PANEL FACILITIES



① 5-DISC ACCESS button

② Plus 1 disc slot

③ **POWERSTANDBY/ON switch and STANDBY indicator**

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

④ **TIMER REC/WAKE-UP button**

⑤ **P.BASS (DEMO) button**

⑥ **SFC/KARAOKE button**

Each time this button is pressed, the mode changes in the following sequence:



NOTE:

If KARAOKE is selected, the vocal part in songs is muted and only the instrumental accompaniment (backup) is played.

⑦ **SLOT EJECT button**

⑧ **25 EJECT button**

⑨ **DISPLAY CLOCK ADJ button**
(U.S., Canadian and Australian models)

DISPLAY/RDS CLOCK ADJ button
(European and U.K. models)

⑩ **ASES/COPY button**

⑪ **REC/STOP button (●/■)**

⑫ **BEST button**

⑬ **TAPE I cassette door**

⑭ **TAPE I Eject button (▲)**

⑮ **Hood**

⑯ **Door panel**

⑰ **DISC SELECT knob**

⑱ **Headphones jack (PHONES)**

⑲ **TITLE INPUT button**

⑳ **VOLUME control**

㉑ **STATION MEMORY button**

㉒ **ECHO level control (Australian model only)**

㉓ **Microphone level (LEVEL) (Australian model only)**
Microphone level (MIC LEVEL) (U.S., Canadian and European models)

㉔ **Microphone jack 1, 2 (MIC 1, 2) (Australian model only)**
Microphone jack (MIC) (U.S., U.K., Canadian and European models)

㉕ **Function buttons**

㉖ **Dolby* NR ON/OFF button**

Each time this button is pressed, the Dolby NR system turns on and off.

㉗ **FREQ/STATION button**

㉘ **Common operation button section (Refer to page 83.)**

㉙ **TAPE II cassette door**

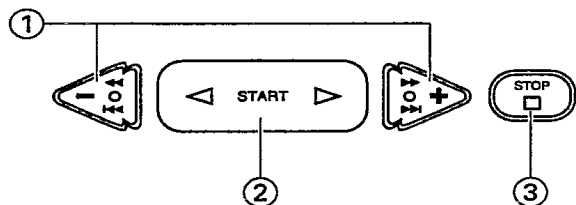
㉚ **TAPE II Eject button (▲)**

*

● **Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.**

● **"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.**

Common operation button section



① <F, F> buttons

② START button (<▶>)

③ STOP button (■)

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

During CD input

START : Play/pause button
STOP : Stop button
<F> : Fast forward/track search button
<F> : Fast reverse/track search button

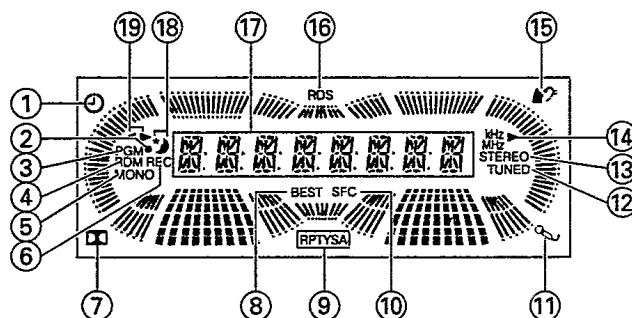
During cassette deck input

START : Play button/Tape transport direction
STOP : Stop button
<F> : Fast forward/Review button
<F> : Rewind/Review button

During tuner operation

<F> : Frequency Up button
<F> : Frequency Down button

Display



- ① Lights when setting the timer.
- ② Lights when setting the Beat Cut function.
- ③ Lights when you press the PGM button.
- ④ Lights when you press the RANDOM button.
- ⑤ Lights when you press the MONO button.
- ⑥ Lights during recording and timer recording operation.
- ⑦ Lights when Dolby NR is ON.
- ⑧ Flashes during Best Selection setting, and lights during play.
- ⑨ RPT : Lights during repeat play.
S : Lights during SINGLE mode operation.
A : Lights during ALL mode operation.
RT : Lights during RT mode operation (European models only).
PS : Lights during PS mode operation (European models only).
PTY : Lights during PTY mode operation (European models only).
- ⑩ Lights during SFC mode operation.
- ⑪ Lights during KARAOKE mode operation.
- ⑫ Lights during radio broadcast reception.
- ⑬ Lights during FM stereo reception.
- ⑭ Lights during CD play. (Flashes in pause mode.)
- ⑮ Lights when you press the P.BASS button.
- ⑯ Lights during RDS mode operation. (European and U.K. models only)
- ⑰ Indicates frequency and major operation status.
- ⑱ Lights during sleep timer operation.
- ⑲ Lights to show TAPE II tape direction.

9. SPECIFICATIONS

■ STEREO FILE-TYPE CD CASSETTE DECK RECEIVER: XR-P760F

Amplifier Section

<U.S. and Canadian models>

Continuous average power output is 100 watts* per channel, min., at 8 ohms from 60 Hz to 15,000 Hz with no more than 1.0 % total harmonic distortion.**

Continuous Power Output (FTC)	100 W + 100 W
(U.S. and Canadian models)	
(RMS)	100 W + 100 W
(1 kHz, T.H.D. 10 %, 8 Ω)	
(PMPO)	1500 W (Australian model)

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

FM Tuner Section

Reception frequencies	87.5 MHz to 108 MHz
Antenna input	75 Ω unbalanced

AM Tuner Section

Reception frequencies	531 kHz to 1,602 kHz (9k)
	530 kHz to 1,700 kHz (10k)
Antenna	Loop antenna (included)

Double Cassette Deck Section

System type	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
Frequency response	
Type II (High/CrO ₂) tape	*35 Hz to 15,000 Hz ±6 dB
	(recorded at -20 dB)
Type I (Normal) tape	*35 Hz to 14,000 Hz ±6 dB
	(recorded at -20 dB)
SN ratio	*56 dB
	(peak recording level, audible compensation)
Dolby B type NR on	10 dB compensation at 5 kHz

* Values measured in accordance with EIAJ standards.

■ FILE TYPE CD PLAYER

Type	Compact disc audio system
Usable discs	Compact audio discs
Channels	2 channels (stereo)
Program steps	32 steps maximum

■ ELECTRICAL REQUIREMENTS, ETC.

Power Requirements

U.S., Canadian models	AC 120 V, 60 Hz
Australian model	AC 240 V, 50 Hz

Power Consumption

U.S. model	255 W
Canadian model	390 VA
Australian model	490 W

External dimensions	260 (W) x 315.7 (H) x 366.7 (D) mm
	10-1/4 (W) x 12-7/16 (H) x 14-7/16 (D) in.

Weight	11 kg (24 lb 5 oz)
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■ ACCESSORIES

Operating Instructions	1
FM T-type antenna	1
AM loop antenna	1
Remote control unit	1
AAA/R03 dry cell batteries	2
Speaker cords (supplied with speaker system)	2
CD case stand	1

NOTE:

Specifications and design are subject to possible modifications without notice, due to improvements.

* Measured pursuant to the Federal Trade Commissions's. Trade Regulation rule on Power Output Claims for Amplifier.

** Measured by audio spectrum analyzer.