PIONEER®
The Art of Entertainment

Service Manual

ORDER NO.
RRV1464

STEREO CD CASSETTE DECK RECEIVER

X-P60C
XR-P60C

http://schema99.d2.cz

- **X-P60C is composed of STEREO CD CASSETTE DECK RECEIVER XR-P60C and SPEAKER SYSTEM S-P60.**
- **Refer to the service manual RRV1480 for SPEAKER SYSTEM S-P60.**

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.
	X-P60C	XR-P60C		
KUXJ	○	○	AC120V	———
KCXJ	○	○	AC120V	———
SDXJ	○	○	AC110/120-127V/220-230V/240V	With the voltage selector
SDXJ/SA	○	○	AC110/120-127V/220-230V/240V	With the voltage selector
SXJ/NC	○	○	AC110/120-127V/220-230V/240V	With the voltage selector
YPWXJ	○	○	AC240V	———

CONTENTS

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
© PIONEER ELECTRONIC CORPORATION 1996
T-IFB MAR. 1996 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
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.

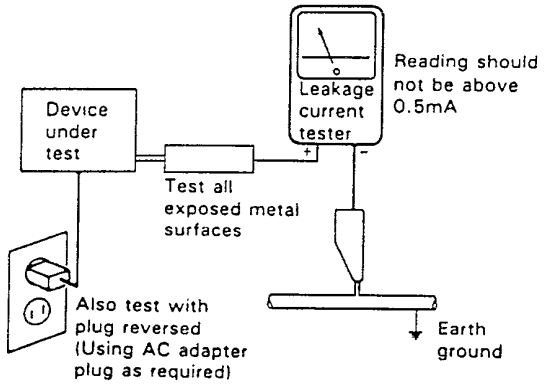
(FOR USA MODEL ONLY)

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 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



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

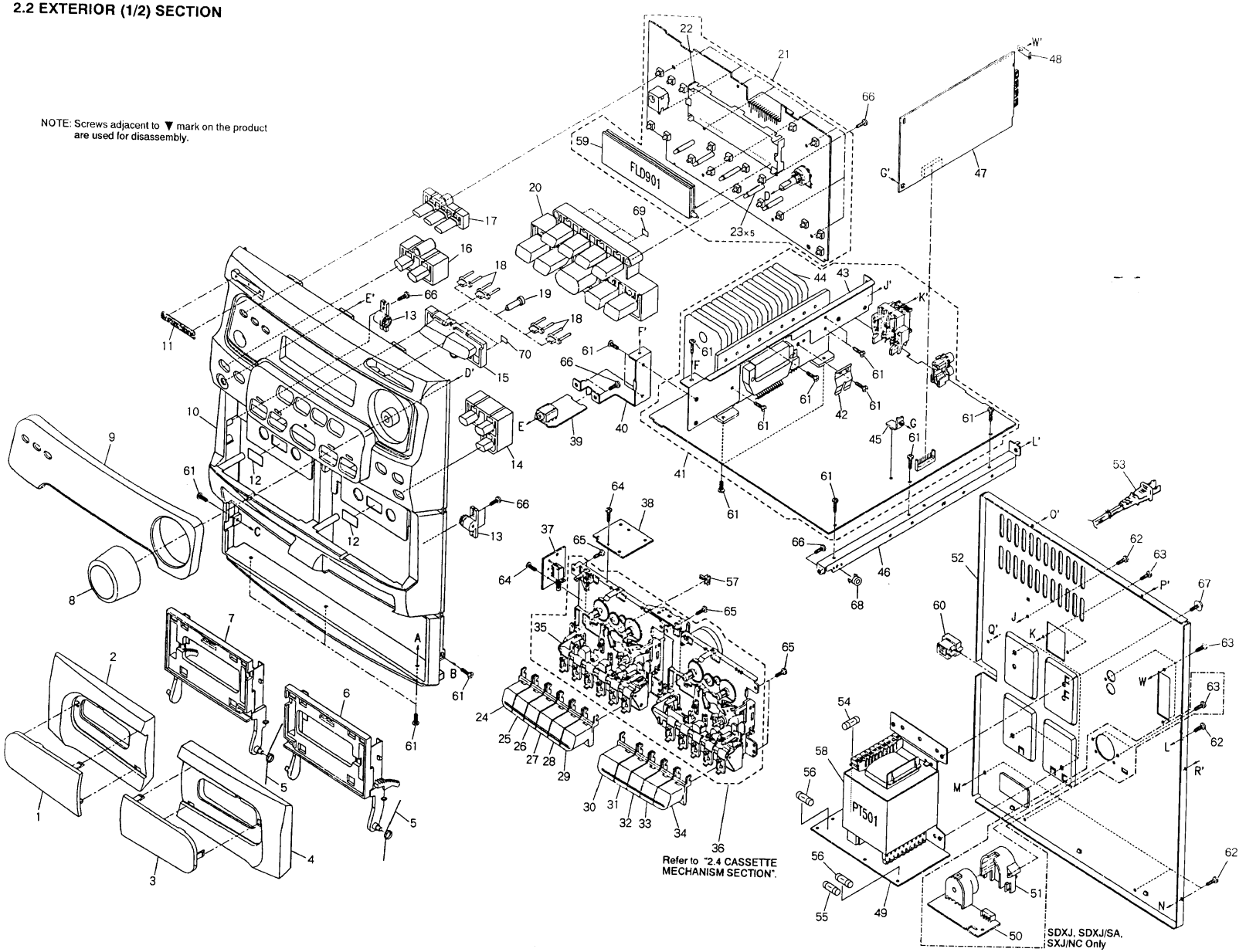
Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which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

2.2 EXTERIOR (1/2) SECTION

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



(1) CONTRAST OF XR-P60C/KUXJ, KCXJ, SDXJ, SDXJ/SA, SXJ/NC AND YPWXJ

XR-P60C/KUXJ, KCXJ, SDXJ, SDXJ/SA, SXJ/NC and YPWXJ have the same construction except for the following:

Mark	No.	Symbol & Description	Part No.						Remarks
			XR-P60C						
			KUXJ	KCXJ	SDXJ	SDXJ/SA	SXJ/NC	YPWXJ	
	21	FRONT PCB Assy	AZW7219	AZW7219	AZW7202	AZW7202	AZW7202	AZW7221	
	41	MAIN PCB Assy	AZW7207	AZW7207	AZW7235	AZW7235	AZW7235	AZW7207	
NSP	49	AC SUPPLY PCB Assy	AZW7223	AZW7223	AZW7204	AZW7204	AZW7204	AZW7224	
NSP	50	VOL. SEL. PCB Assy	Not used	Not used	AZW7209	AZW7209	AZW7209	Not used	
	51	Voltage Cover	Not used	Not used	AZN7093	AZN7093	AZN7093	Not used	
	52	Rear Panel	AZN7540	AZN7540	AZN7511	AZN7511	AZN7541	AZN7544	
⚠	53	AC Cord	AZD7079	AZD7079	AZD7075	AZD7075	AZD7075	AZD7083	
⚠	54	Fuse (F501, 3A/125V)	AZE7110	AZE7110	Not used	Not used	Not used	Not used	
⚠	54	Fuse (F501, T2AL/250V)	Not used	Not used	~~AZE7107~~	AZE7107	AZE7107	Not used	
⚠	54	Fuse (F501, T1.6AL/250V)	Not used	Not used	Not used	Not used	Not used	AZE7106	
⚠	55	Fuse (F502, 1.6A/125V)	AZE7109	AZE7109	Not used	Not used	Not used	Not used	
⚠	55	Fuse (F502, T1.6AL/250V)	Not used	Not used	AZE7106	AZE7106	AZE7106	AZE7106	
⚠	56	Fuse (F503, F504, 4A/125V)	AZE7108	AZE7108	Not used	Not used	Not used	Not used	
⚠	56	Fuse (F503, F504, T4AL/250V)	Not used	Not used	AZE7105	AZE7105	AZE7105	AZE7105	
⚠	58	Power Transformer (PT501, AC120V)	AZT7081	AZT7081	Not used	Not used	Not used	Not used	
⚠	58	Power Transformer (PT501, (AC110V/120-127V/220-230V/240V)	Not used	Not used	AZT7075	AZT7075	AZT7075	Not used	
⚠	58	Power Transformer (PT501, AC240V)	Not used	Not used	Not used	Not used	Not used	AZT7084	

(2) PARTS LIST FOR XR-P60C/KUXJ

Mark	No.	Description	Part No.
	1	Cassette Window (L)	AZA7167
	2	Cassette Door (L)	AZN7504
	3	Cassette Window (R)	AZA7166
	4	Cassette Door (R)	AZN7503
	5	Eject Spring	AZN7513
	6	Door Holder (R)	AZN7508
	7	Door Holder (L)	AZN7509
	8	Volume Knob	AZA7183
	9	Display Window	AZA7165
	10	Front Escutcheon	AZN7506
	11	Pioneer Badge	PAM1608
	12	Mirror	AZN7170
	13	Gear Damper	AZN7179
	14	Preset Knob	AZA7168
	15	CD Open /Close Knob	AZA7186
	16	Bass Knob	AZA7169
	17	Timer Knob	AZA7170
	18	LED Lens	AZA7188
	19	Indicator	AZA7190
	20	Function Knob	AZA7171
	21	FRONT PCB Assy	AZW7219
	22	Display Holder	AZN7538
	23	LED Holder	AZN7539
	24	Cassette Button Record	AZA7172
	25	Cassette Button Play (L)	AZA7173
	26	Cassette Button REW. (L)	AZA7177
	27	Cassette Button F.F. (L)	AZA7175
	28	Cassette Button Eject (L)	AZA7179
	29	Cassette Button Pause (L)	AZA7181
	30	Cassette Button Play (R)	AZA7174
	31	Cassette Button REW. (R)	AZA7178
	32	Cassette Button F.F. (R)	AZA7176
	33	Cassette Button Eject (R)	AZA7180
	34	Cassette Button Pause (R)	AZA7182
	35	Cassette Deck	AZX7035
	36	Cassette Deck Assy	AZW7206
NSP	37	R/P SW PCB Assy	AZW7211
NSP	38	CONNECTOR PCB Assy	AZW7210
NSP	39	HEADPHONE PCB Assy	AZW7208
NSP	40	Heat Sink Bracket (B)	• • • • •
	41	MAIN PCB Assy	AZW7207
	42	Spring Transistor (B)	AZB7019
	43	Heat Sink Bracket	AZN7142
	44	Heat Sink Assy (7FIN)	AZN7641
	45	PCB Hinge	AZN7517
NSP	46	Main PCB Bracket	• • • • •
	47	TUNER PCB Assy	AZW7205
	48	Earth Terminal	AZN7536
NSP	49	AC SUPPLY PCB Assy	AZW7223
	50	• • • • •	
	51	• • • • •	
	52	Rear Panel	AZN7540
⚠	53	AC Cord	AZD7079
⚠	54	Fuse (F501, 3A/125V)	AZE7110
⚠	55	Fuse (F502, 1.6A/125V)	AZE7109
⚠	56	Fuse (F503, F504, 4A/125V)	AZE7108
	57	Leaf Switch (ZEXSA)	AZS7033

Mark	No.	Description	Part No.
⚠	58	Power Transformer (PT501, AC120V)	AZT7081
	59	FLD BJ453GK	AZA7191
⚠	60	Cord Bushing	AZE7104
	61	Screw	BBZ30P060FMC
	62	Screw	BBZ30P060FZK
	63	Screw	BBZ30P100FZK
	64	Screw	IBZ20P050FMC
	65	Screw	IBZ30P080FMC
	66	Screw	IBZ30P100FMC
	67	Screw	IBZ40P080FCC
	68	Spacer Support	AZN7642
NSP	69	Spacer (T:0.2)	• • • • •
NSP	70	Spacer (T:0.4)	• • • • •

2.3 EXTERIOR (2/2) SECTION

Parts List

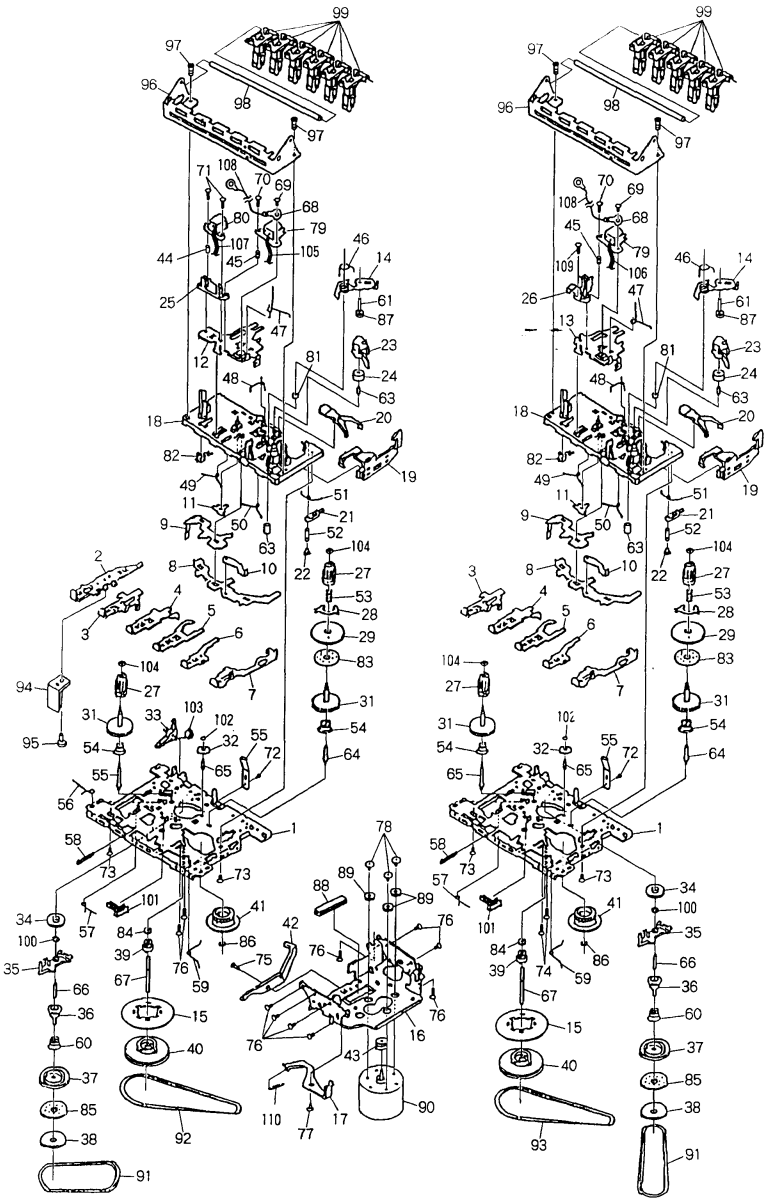
Mark	No.	Description	Part No.
	1	2P CON. Assy	AZD7076
	2	Side Rail (L)	AZN7521
	3	Pulley (Side)	AZN7030
NSP	4	Bottom Chassis	• • • • •
	5	Foot	AZN7512
	6	Side Rail (R)	AZN7520
	7	Guide Pin Plate	AZN7522
	8	Top Cover	AZN7505
	9	CD Window	AZA7184
	10	CD Front Panel	AZN7514
	11	CD Display Lens	AZA7187
NSP	12	CD LED PCB Assy	AZW7213
	13	CD Lens Holder	AZN7515
	14	Switch Box	AZN7121
	15	Switch Pin	AZN7276
	16	Mounting Plate Assy	AZW7132
	17	Fiber Washer	AZB7124
	18	Wheel	AZN7057
	19	Belt (60 × 1.6)	AZN7059
	20	E Ring 2.5Q	AZB7007
	21	Motor Pulley	AZN7053
	22	Motor Bracket	AZN7124
	23	Spacer (4 × 13 × 2)	AZN7277
	24	Guide Plate	AZN7041
NSP	25	CD SENSOR PCB Assy	AZW7214
	26	Lever Plate	AZN7117
	27	Sponge (5.5 × 7)	AZN7279
	28	Shaft (Lever Switch)	AZN7116
	29	Himelon Sheet	AZN7518
	30	CD PCB Cover	AZN7644
	31	Fiber Washer	AZB7125
	32	CD DECODER PCB Assy	AZW7212
	33	Gear Wheel	AZN7123
	34	Wire Holder	AZN7122
	35	Cushion Holder	AZN7125
	36	PICKUP Assy	AZN7295
	37	Leaf Switch (S17:LIMIT)	AZS7016
	38	Chassis Assy	AZW7058
	39	Motor Assy (SLED)	AZX7015
	40	CD Mechanism CD94V5	AZN7281
	41	Changer Base	AZN7523
	42	Spring Holder	AZN7282
	43	Main Base Cover	AZN7009
	44	E Ring 8Q	AZB7011
	45	Washer	AZB7010
	46	Clutch Spring	AZB7016
	47	Poly Washer	AZB7047
	48	Cam Gear	AZN7510
	49	Turntable	AZN7519
	50	Transit Lock	AZN7103
	51	Poly Washer	AZB7012
	52	Magnetic Holder	AZN7273
	53	Magnet	AZN7114
	54	Arm Assy	AZW7131
	55	Magnetic Cover	AZN7063
	56	Leaf Switch MLS-1	AZS7003
	57	Leaf Switch LSC-1223-31	AZS7001
	58	Turntable Motor MMN-6E9D1	AZX7003
	59	Drawer Motor MEN-7E9T2	AZX7002
NSP	60	Fix PCB 24.5×16×1.6mm	AZN7548
	61	Screw	BBZ26P030FMC
	62	Screw	BBZ26P040FMC
	63	Screw	BBZ26P080FZK
	64	Screw	BBZ30P060FMC
	65	Screw	BBZ30P080FMC
	66	Screw	BBZ30P100FZK
	67	Screw	BBZ30P120FMC
	68	Screw	CBZ30P080FZK
	69	Screw	IBZ20P050FMC
	70	Screw	IBZ26P060FMC
	71	Screw	IBZ30P080FMC
	72	Screw	IBZ30P080FZK
	73	Screw	IBZ30P100FMC

2.4 CASSETTE MECHANISM SECTION

Parts List

Mark	No.	Description	Part No.
NSP	1	Sub Chassis	• • • • •
NSP	2	Rec Button Lever (F)	• • • • •
NSP	3	Play Button Lever (F)	• • • • •
NSP	4	REW. Button Lever (F)	• • • • •
NSP	5	F.F. Button Lever (F)	• • • • •
NSP	6	Stop Button Lever (F)	• • • • •
NSP	7	Pause Button Lever (F)	• • • • •
NSP	8	Push Button Actuator Plate	• • • • •
NSP	9	Switch Actuator Plate	• • • • •
NSP	10	Eject Lever	• • • • •
NSP	11	REW. Fixed Plate	• • • • •
NSP	12	Head Panel R/P	• • • • •
NSP	13	Head Panel P/B	• • • • •
NSP	14	Takeup Reel Plate	• • • • •
	15	Flywheel Plate	AZN7551
NSP	16	Deck Angle Connector	• • • • •
	17	P. Cancel Plate	AZN7552
	18	Main Base	AZN7553
	19	E. Slide Lever (F)	AZN7554
	20	Auto Stop Lever	AZN7555
	21	Pause Lever	AZN7556
	22	Pause Stopper	AZN7557
	23	Pinch Roller Arm	AZN7558
	24	Pinch Roller	AZN7559
	25	Head Base R/P	AZN7560
	26	Head Base P/B	AZN7561
	27	Takeup Reel Cap	AZN7562
NSP	28	Sensing Ring	• • • • •
	29	Takeup Reel Disk	AZN7563
	30	• • • • •	
	31	Takeup Reel Gear	AZN7564
	32	F.F. Gear	AZN7565
	33	Reco. Safety Lever	AZN7566
	34	R.F Gear	AZN7567
	35	R.F Arm	AZN7568
	36	R.F Spring Stopper	AZN7569
	37	R.F Pulley	AZN7570
	38	R.F Disk	AZN7571
	39	Flywheel Gear	AZN7572
	40	Flywheel Pulley	AZN7573
	41	T. Up Idler Gear	AZN7574
	42	Pause Cancel Arm	AZN7575
	43	Motor Pulley	AZN7576
	44	E Head Spring	AZN7577
	45	Head Spring	AZN7578
	46	T. Up Idler PL. Spring	AZN7579
	47	Pinch Roller Spring	AZN7580
	48	Auto Lever Spring	AZN7581
	49	F/R Button Lever Spring	AZN7582
	50	S/P Button Lever Spring	AZN7583
	51	Pause Spring	AZN7584
	52	Pause Lever Spring	AZN7585
	53	T. Up Reel Clutch Spring	AZN7586
	54	Back Tension Spring	AZN7587
	55	Pack Spring (F)	AZN7588

Mark	No.	Description	Part No.
	56	Rec Button Lever Spring	AZN7589
	57	Switch Lock Plate Spring	AZN7590
	58	Play Button Lever Spring	AZN7591
	59	Eject Slide Lever Spring	AZN7592
	60	R.F Clutch Spring	AZN7593
	61	Takeup Idler Gear Shaft	AZN7594
	62	Pinch Roller Shaft	AZN7595
	63	Capstan Metal	AZN7596
	64	Takeup Reel Shaft	AZN7597
	65	F.F. Gear Shaft	AZN7598
	66	R.F. Shaft	AZN7599
	67	Flywheel Shaft	AZN7600
	68	Lug Plate	AZN7601
	69	Head Screw ISO	AZB7126
	70	Azimuth Screw	AZB7127
	71	E Head Screw	AZB7128
	72	Pack Spring Screw	AZB7129
	73	C Tapping Screw	AZB7130
	74	TP Screw	AZB7131
	75	Special Screw	AZB7132
	76	C Tapping Screw	AZB7133
	77	Special Screw	AZB7134
	78	Motor Collar Screw	AZB7135
	79	Head (MS18R-AKON1)	AZP7019
	80	E Head (LE15B-C1)	AZP7020
	81	P Washer Cut	AZN7602
	82	Leaf Switch	AZS7034
	83	Takeup Reel Felt	AZN7603
	84	P Washer	AZN7604
	85	R.F Felt	AZN7605
	86	Takeup Idler P Washer Cut	AZN7606
	87	Takeup Idler Gear Washer	AZN7607
	88	Motor Felt	AZN7608
	89	Motor Rubber	AZN7609
	90	Motor (SHU2L-70)	AZX7037
	91	R.F Belt	AZN7610
	92	Main Belt (6KEY)	AZN7611
	93	Main Belt (5KEY)	AZN7612
	94	Rec Spring Plate	AZN7613
	95	Rec Spring Plate Screw	AZB7137
	96	Button Frame	AZN7614
	97	FH Screw for Camera	AZB7138
	98	Button Shaft	AZN7615
	99	Button	AZN7616
	100	R.F Washer	AZN7617
	101	Leaf Switch	AZS7035
	102	Washer Cut	AZN7618
	103	Rec Safety Lever Lock	AZN7619
	104	Takeup Reel Washer Cup	AZN7620
	105	5P Connector Assy	AZD7002
	106	3P Connector Assy	AZD7003
	107	2P Connector Assy	AZD7004
	108	Earth Terminal Assy	AZK7046
	109	Screw	AZB7136
	110	P Kick Lever Spring	AZN7650



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

NOTE FOR SCHEMATIC DIAGRAMS

(Type 1A)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance:(F):±1%, (G):±2%, (K):±10%, (M):±20% or ±5% unless otherwise noted.

4. CAPACITORS:
Unit : p:pF or μF unless otherwise noted.
Ratings : capacitor (μF) / voltage (V) unless otherwise noted.
Rated voltage : 50V except for electrolytic capacitors.

5. COILS:
Unit : m:mH or μH unless otherwise noted.

6. VOLTAGE AND CURRENT:
▭V : Signal voltage at rated output.
▭ or ←V :
DC voltage (V) at no input signal unless otherwise noted.
Value in ( ) is DC voltage at rated power.
⇦mA or ←mA :
DC current at no input signal unless otherwise noted.

7. OTHERS:
• ⊘ or ⊘ : Adjusting point.
• ◀ : Measurement point.
• The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SCH - □ ON THE SCHEMATIC DIAGRAM:
• SCH-□ indicates the drawing number of the schematic diagram.
(SCH stands for schematic diagram.)

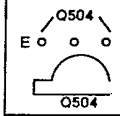
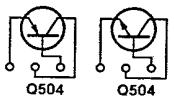
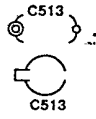
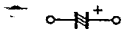
9. SWITCHES (Underline indicates switch position):
R/P SW PCB ASSY
S604: R/P SW

FRONT PCB ASSY
S901: POWER STANDBY/ON
S902: TUNER/BAND
S903: TAPE
S904: AUX
S905: SFC
S906: P. BASS
S907: TUNING + (▶▶ • ▶▶|)
S908: TUNING - (|◀◀ • ◀◀)
S909: PRESET UP
S910: PRESET DOWN
S911: MEMORY
S912: ■ (CD STOP)
S913: CD ▶/❙❙
S914: PROGRAM
S915: CLOCK ┐
S916: TIMER SET ┘ TIMER
S917: MODE ┘
S918: CD OPEN/CLOSE(▲)
S919: DISC SKIP

VOL. SEL. PCB ASSY(SDXJ, SDXJ/SA and SXJ/NC only)
S501: AM CHANNEL STEP 9kHz —— 10kHz
S502: VOLTAGE SELECTOR
AC110V—AC120-127V—AC220-230V—AC240V

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.

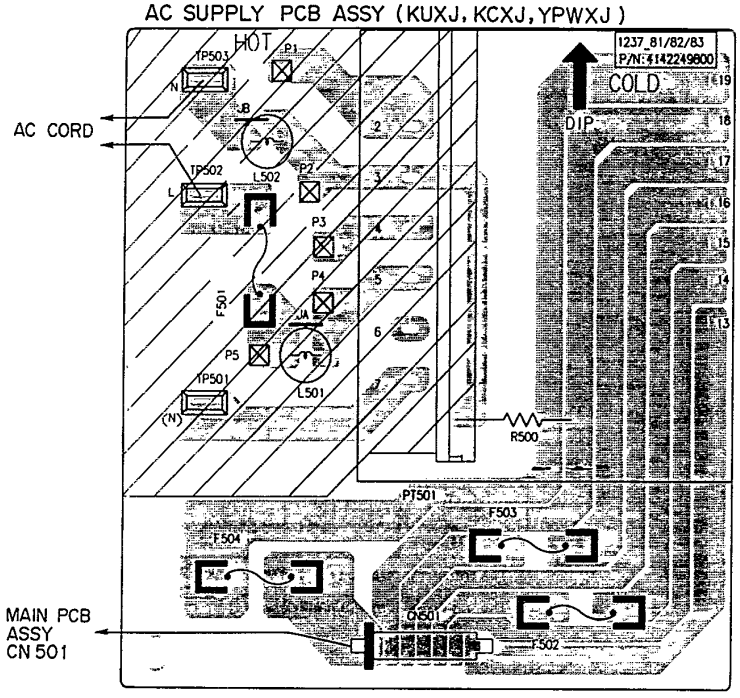
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or ⊏ shows the emitter.
4. The diode terminal marked with ◎ or ⊂ shows cathode side.
5. The capacitor terminal marked with ◎ or ⊏ shows negative terminal.

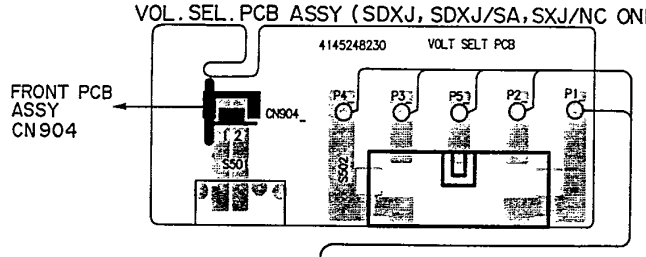
• AC SUPPLY PCB AND VOL. SEL. PCB ASSEMBLIES

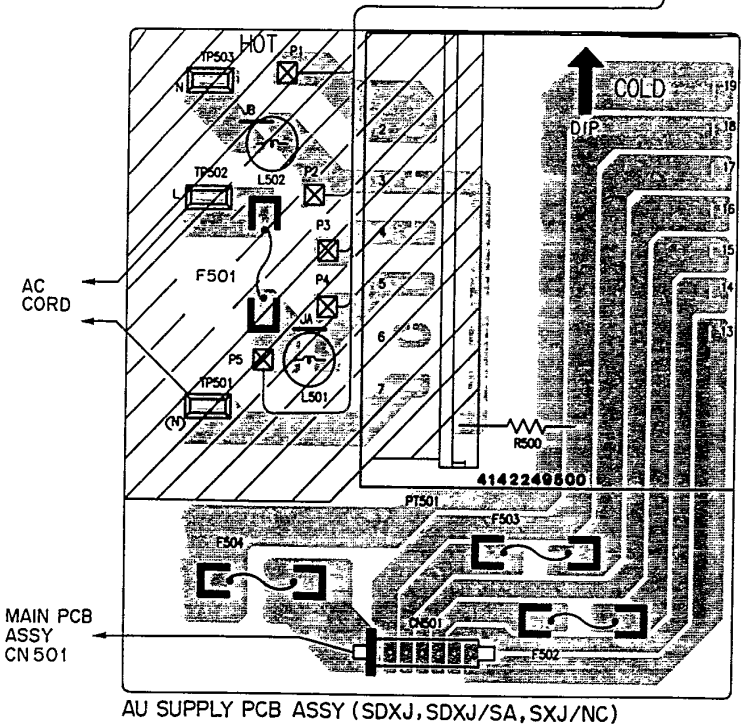
PCB-1

AC SUPPLY PCB ASSY (KUXJ, KCXJ, YPWXJ)



VOL. SEL. PCB ASSY (SDXJ, SDXJ/SA, SXJ/NC ONLY)

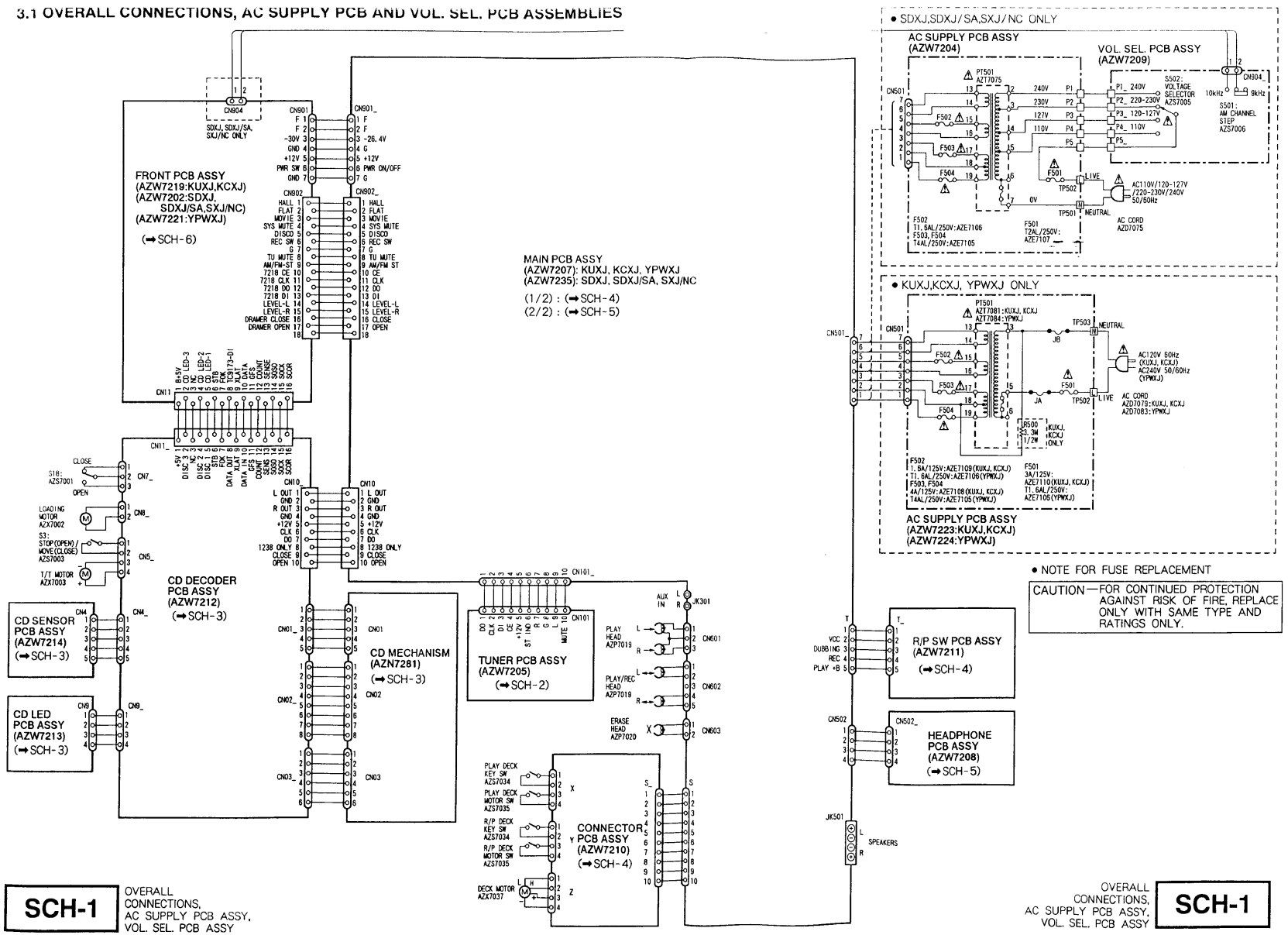




AU SUPPLY PCB ASSY (SDXJ, SDXJ/SA, SXJ/NC)

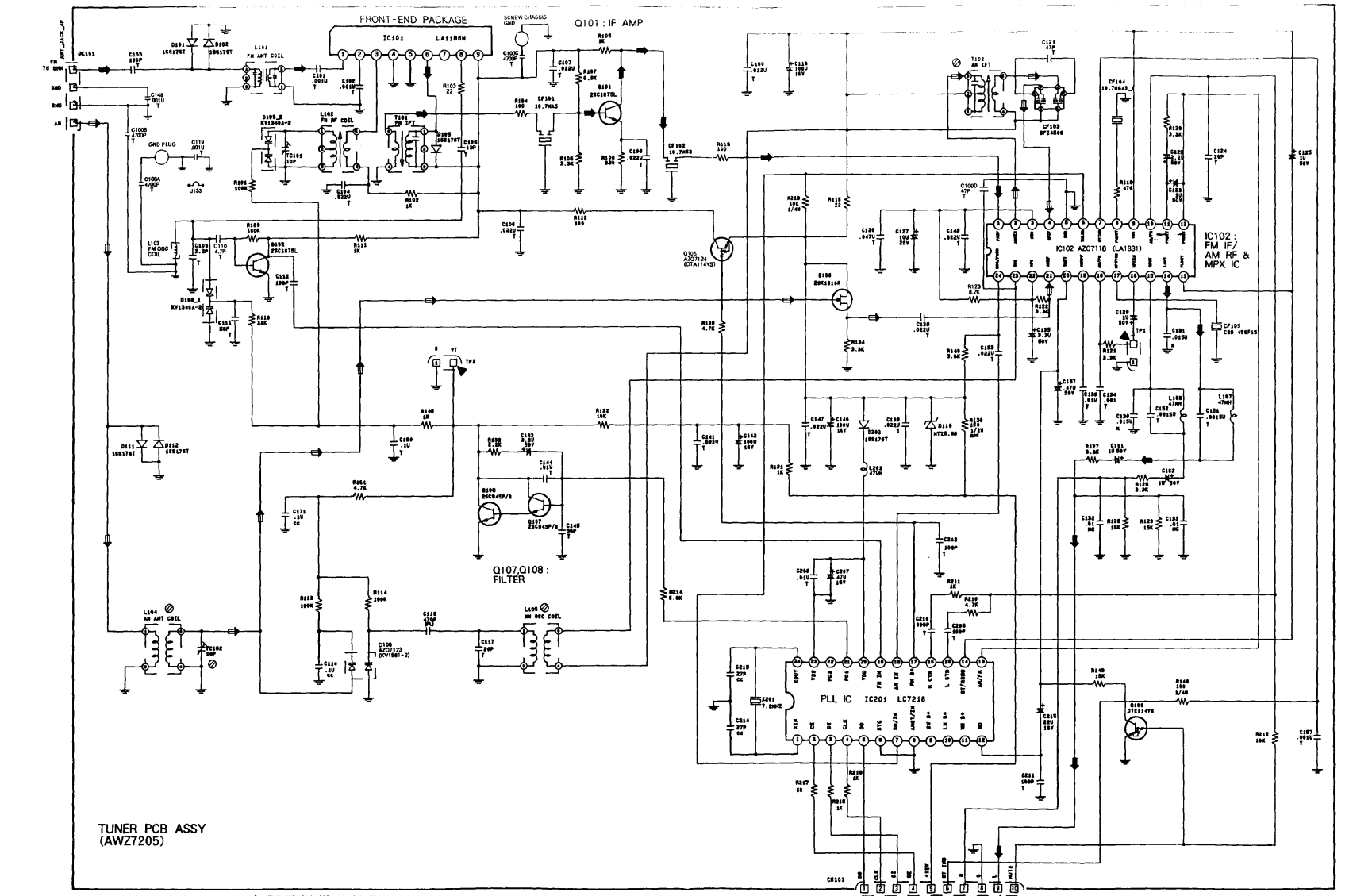
- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

3.1 OVERALL CONNECTIONS, AC SUPPLY PCB AND VOL. SEL. PCB ASSEMBLIES



3.2 TUNER PCB ASSY

SCH-2

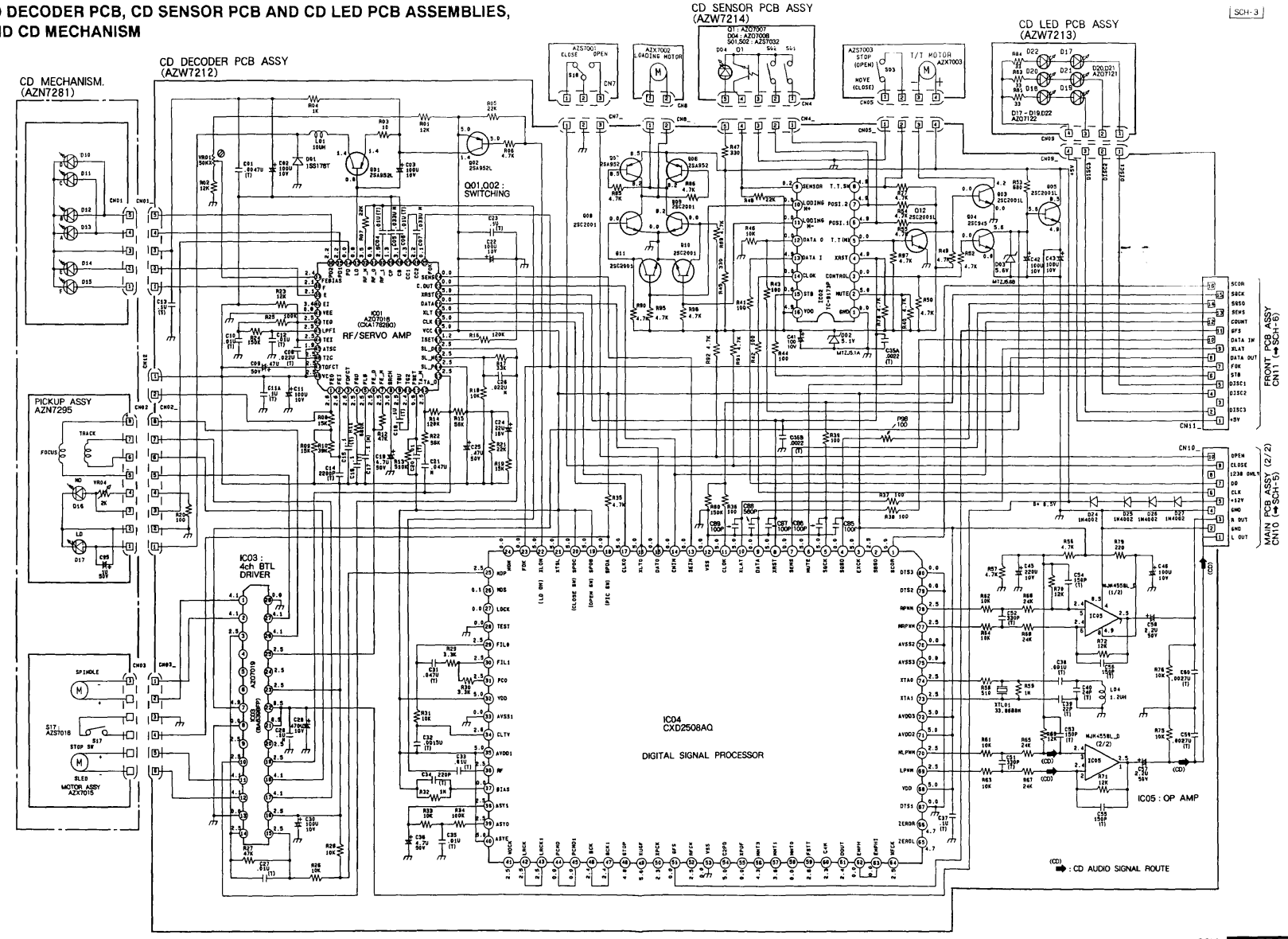


SCH-2 TUNER PCB ASSY

➡ : TUNER FM SIGNAL ROUTE
⇨ : TUNER AM SIGNAL ROUTE

TUNER PCB ASSY **SCH-2**

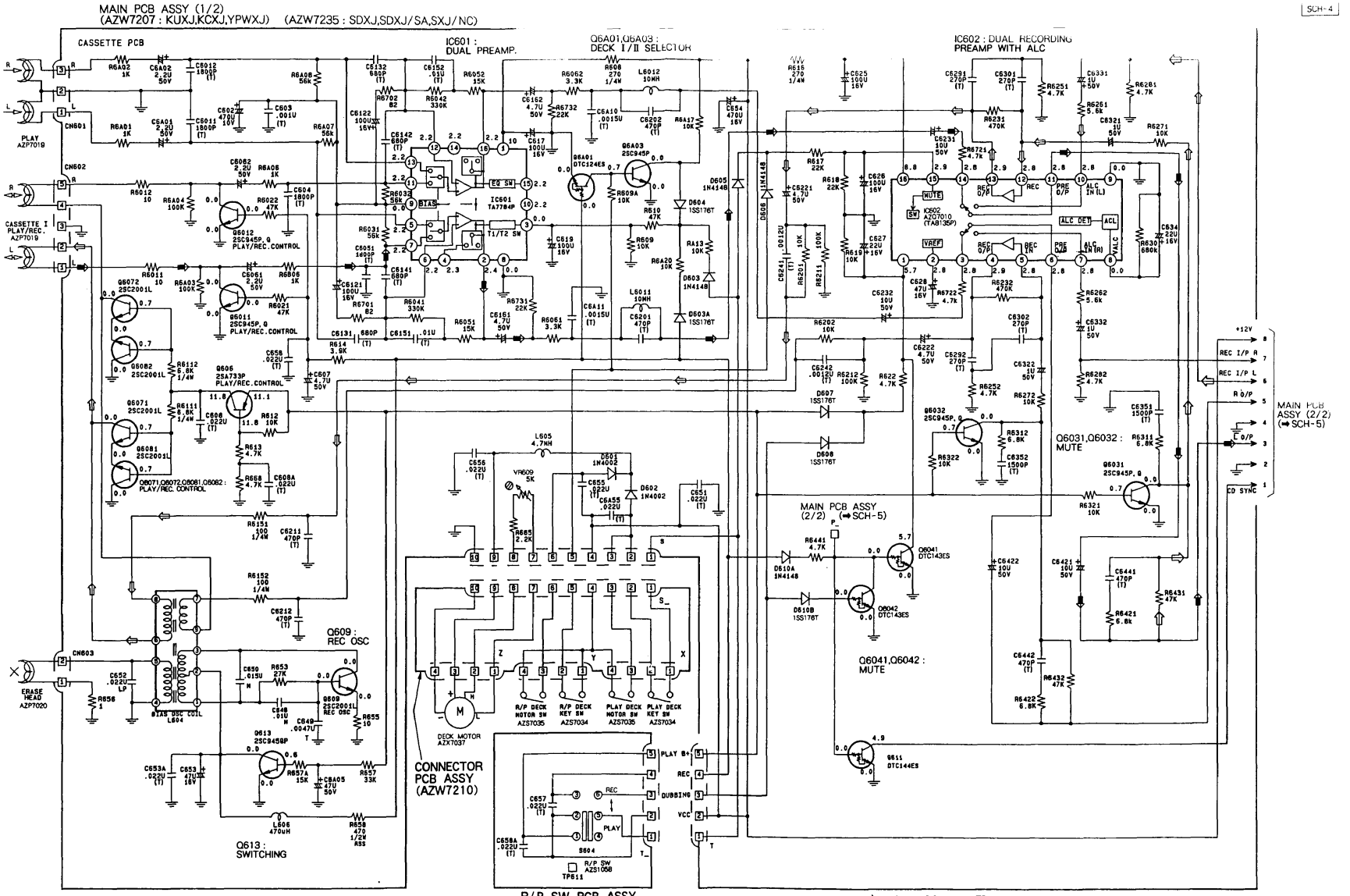
3.3 CD DECODER PCB, CD SENSOR PCB AND CD LED PCB ASSEMBLIES, AND CD MECHANISM



SCH-3 CD DECODER PCB ASSY, CD SENSOR PCB ASSY, CD LED PCB ASSY, CD MECHANISM

CD DECODER PCB ASSY, CD SENSOR PCB ASSY, CD LED PCB ASSY, CD MECHANISM **SCH-3**

3.4 MAIN PCB (1/2), CONNECTOR PCB AND R/P SW PCB ASSEMBLIES



VOLTAGES OF THE MAIN PCB ASSY (1/2)

(CASSETTE)-RECORD

1. IC

IC NO.	PIN NO.																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
IC601	10.25	2.27	1.83	2.2	2.14	2.16	2.15	0	2.18	0	2.15	2.16	2.15	2.19	2.2	2.26			
IC602	0	2.82	2.81	2.88	2.82	2.82	2.81	0	0	2.81	2.82	2.82	2.88	2.81	2.98	8.99			

2. TRANSISTORS

TR NO.	Q606	Q609	Q611	Q613	Q6011	Q6012	Q6031	Q6032	Q6041	Q6042	Q6071	Q6072	Q6081	Q6082	Q6A01	Q6A03	
E	0	0.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	0	5.13	0	5.14	0	0	0	0	0	5.55	0	0	0	0	0	0.94	
B	0	0.47	5.55	0	0.63	0.63	0	0	5.55	0	0	0	0	0	11.87	0	

(CASSETTE)-PLAY

1. IC

IC NO.	PIN NO.																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
IC601	10.26	2.26	0	2.19	2.14	2.16	2.15	0	2.17	0	2.15	2.16	2.14	2.19	2.2	2.26			
IC602	5.72	0	2.81	2.88	2.82	2.82	2.81	0	0	2.81	2.82	2.82	2.88	2.81	2.98	8.82			

2. TRANSISTORS

TR NO.	Q606	Q609	Q611	Q613	Q6011	Q6012	Q6031	Q6032	Q6041	Q6042	Q6071	Q6072	Q6081	Q6082	Q6A01	Q6A03	
E	11.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	11.85	0	4.98	0	0	0	0	0	5.73	0	0	0	0	0	0.7	0	
B	11.16	0	0	0.65	0	0	0.7	0.7	0	0	0.67	0.67	0.67	0.67	0	0.7	

VOLTAGES OF THE MAIN PCB ASSY (2/2)

1. IC

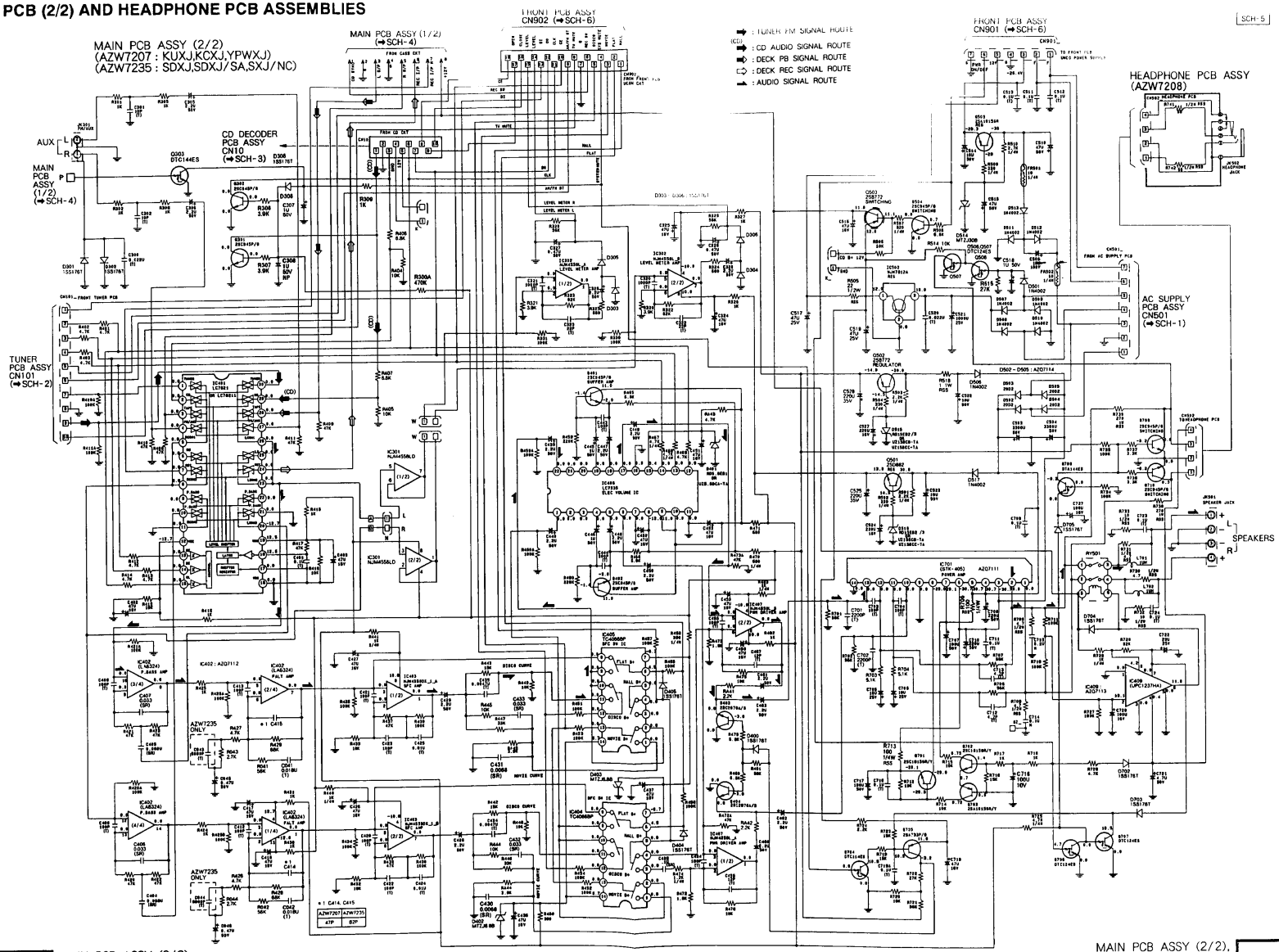
IC NO.	PIN NO.																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC302	0	0	0	-10	0	0	0	10												
IC401	0	0	0	0	0	0	0	0	0	0	0	-12.7	0	0	0	0	0	12.6	12.5	-12.7
IC402	0	0	0	12.7	0	0	0	0	0	0	-12.8	0	0	0						
IC403	0	0	0	-10	0	0	0	10												
IC404	0	0	0	0	0	4.9	-6.7	0	0	0	0	0	0	6.7						
IC405	0	0	0	0	0	4.9	-6.7	0	0	0	0	0	0	6.7						
IC406	0	0	0	0	0	0	0	-12	11	0	0	0	0	0	5.4	0	0	0	0	0
IC407	0	0	0	-10	0	0	0	10												
IC409	0	18.1	0	0.4	0	11.8	0	4.2												
IC502	12	0	18																	
IC701	0	0	-30.7	30.7	30.7	-30.7	29.1	-29	0	0	0	0	0	0						

IC NO.	PIN NO.										TR NO.									
	21	22	23	24	25	26	27	28	29	30		Q301	Q302	Q401	Q402	Q403	Q404	Q501	Q502	Q503
IC401	0	0	0	0	0	0	0	0	0	0	E	0	0	-2	-2	0	0	13.9	-14	12
IC406	0	0									C	0	0	11	11	0	0	30	-30	11.8
											B	0	0	-1.4	-1.4	-3	-3	14.5	-14.5	11.1

2. TRANSISTORS

TR NO.	Q504	Q505	Q701	Q702	Q703	Q704	Q705	Q706	Q707	Q708	Q709	Q710								
E	0	-28.3	-29.1	0.7	0.7	0	11.8	0	0	0	0	0								
C	0	-38	-29	0.75	0.72	10.5	-3.2	0	10.5	-8.2	0	0								
B	0.7	-29	-28.3	1.4	0	0	10.5	4.7	0	0	-8.2	-8.2								

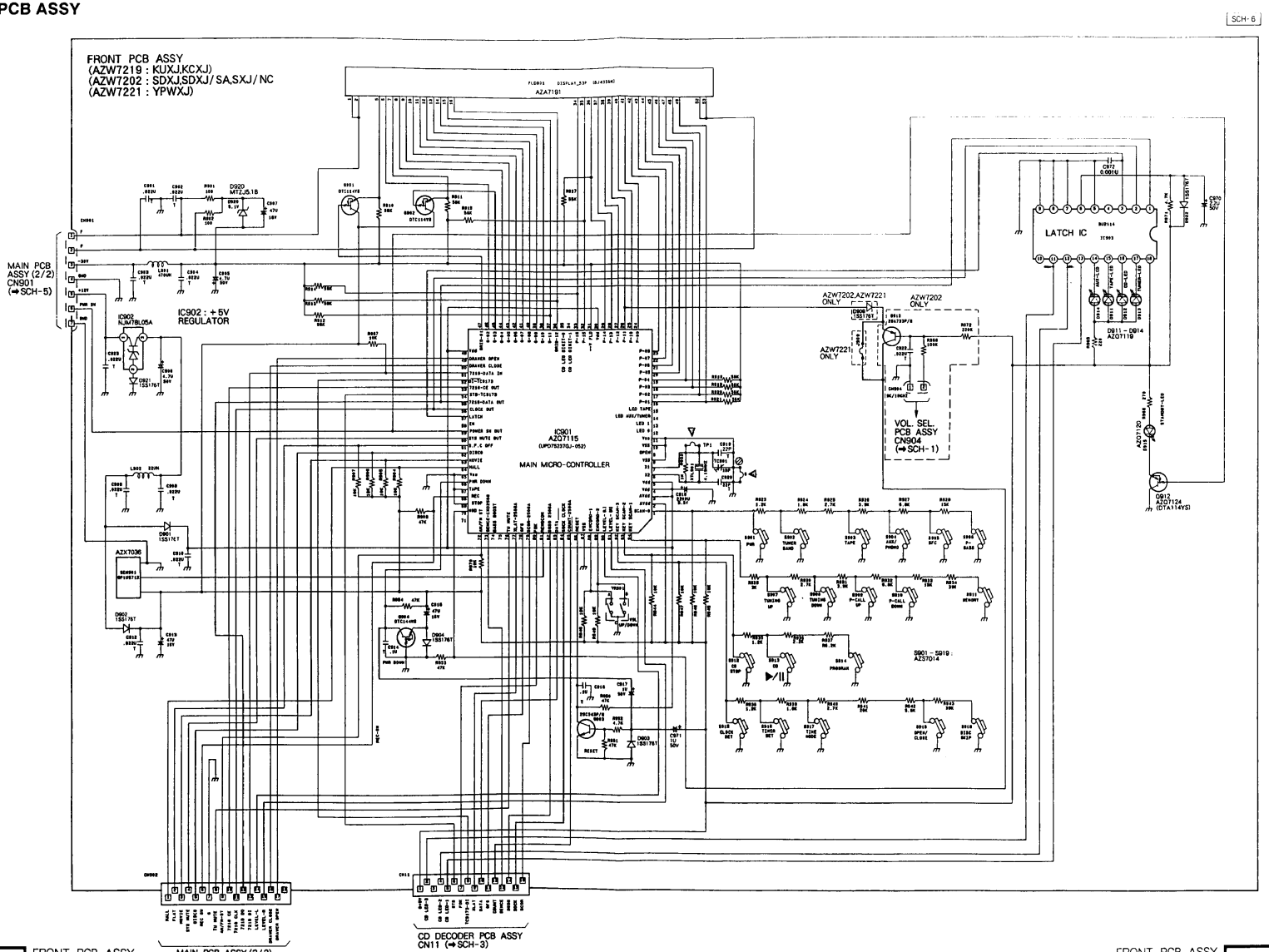
3.5 MAIN PCB (2/2) AND HEADPHONE PCB ASSEMBLIES



SCH-5 MAIN PCB ASSY (2/2), HEADPHONE PCB ASSY

MAIN PCB ASSY (2/2), HEADPHONE PCB ASSY **SCH-5**

3.6 FRONT PCB ASSY



4. 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.*
- *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 resistante 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%).

560Ω → 56 × 10¹ → 561 ····· RD1/4PU 5 6 1 J
47kΩ → 47 × 10³ → 473 ····· RD1/4PU 4 7 3 J
0.5Ω → 0R5 ····· RN2H 0 R 5 K
1Ω → 1R0 ····· RS1P 1 R 0 K

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

5.62kΩ → 562 × 10¹ → 5621 ····· RN1/4PC 5 6 2 1 F

LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No. of XR-P60C						Remarks
		KUXJ	KCXJ	SDXJ	SDXJ/SA	SXJ/NC	YPWXJ	
NSP	MAIN PCB ASSY KITS	AZW7216	AZW7216	AZW7201	AZW7201	AZW7201	AZW7216	
	├ MAIN PCB ASSY	AZW7207	AZW7207	AZW7235	AZW7235	AZW7235	AZW7207	
NSP	├ HEADPHONE PCB ASSY	AZW7208	AZW7208	AZW7208	AZW7208	AZW7208	AZW7208	
NSP	├ VOL. SEL. PCB ASSY	Not used	Not used	AZW7209	AZW7209	AZW7209	Not used	
NSP	├ CONNECTOR PCB ASSY	AZW7210	AZW7210	AZW7210	AZW7210	AZW7210	AZW7210	
NSP	└ R/P SW PCB ASSY	AZW7211	AZW7211	AZW7211	AZW7211	AZW7211	AZW7211	
	FRONT PCB ASSY	AZW7219	AZW7219	AZW7202	AZW7202	AZW7202	AZW7221	
NSP	CD DECODER ASSY KITS	AZW7203	AZW7203	AZW7203	AZW7203	AZW7203	AZW7203	
NSP	├ CD DECODER PCB ASSY	AZW7212	AZW7212	AZW7212	AZW7212	AZW7212	AZW7212	
NSP	├ CD LED PCB ASSY	AZW7213	AZW7213	AZW7213	AZW7213	AZW7213	AZW7213	
NSP	└ CD SENSOR PCB ASSY	AZW7214	AZW7214	AZW7214	AZW7214	AZW7214	AZW7214	
NSP	AC SUPPLY PCB ASSY	AZW7223	AZW7223	AZW7204	AZW7204	AZW7204	AZW7224	
	TUNER PCB ASSY	AZW7205	AZW7205	AZW7205	AZW7205	AZW7205	AZW7205	

MAIN PCB ASSY

• CONTRAST OF AZW7207 AND AZW7235

AZW7207 and AZW7235 have the same construction except for the following :

Symbol & Description	Part No.	
	AZW7207	AZW7235
C414,C415 C43,C44	CCPUSL470J50 Not used	CKPUYB820K50 CKPUYX682M16

• PARTS LIST FOR AZW7207

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC602		AZQ7010
	IC701		AZQ7111
	IC402		AZQ7112
	IC409		AZQ7113
	IC406		LC7535
	IC401		LC7821
	IC403		NJM4558DX
	IC301, IC302, IC407		NJM4558LD
	IC502		NJM7812AS
	IC601		TA7784P
	IC404, IC405		TC4066BP
	Q505, Q703		2SA1015
	Q606, Q705		2SA733
	Q701, Q702		2SC1815
	Q6071, Q6072, Q6081, Q6082, Q609		2SC2001
	Q501		2SD882
	Q403, Q404		2SC2878A
	Q301, Q302, Q401, Q402, Q504, Q6A03		2SC945
	Q6011, Q6012, Q6031, Q6032, Q613		2SC945
	Q709, Q710		2SC945
	Q502, Q503		2SB772
	Q708		DTA144ES
	Q704		DTC114ES
	Q506, Q507, Q706, Q707, Q6A01		DTC124ES
	Q6041, Q6042		DTC143ES
	Q611, Q703		DTC144ES
	D501, D506-D513, D517, D601, D602		1N4002L
	D603, D605, D606, D610A		1N4148
	D301-D306, D308, D400, D404, D405, D603A		1SS176T
	D604, D607, D608, D610B, D702-D705		1SS176T
	D502-D505		AZQ7114
	D514		MTZJ30B
	D402, D403		MTZJ6.8B
	D515, D516		RD15EB2
	D401		RD5.6EB1
RELAY			
	RY501		AZS7031
COILS			
	L6011, L6012	(10mH)	AZT7020
	L606	(470μH)	AZT7021
	L605	(4.7mH)	AZT7047
	L604	BIAS OSC COIL	AZT7048
	L701, L702	(1μH)	AZT7076
CAPACITORS			
	C503, C504(3300/50V)		AZC7015
	C301, C302		CCPUSL100J50
	C456, C457		CCPUSL120J50
	C322, C323		CCPUSL220J50
	C414, C415		CCPUSL470J50
	C712, C713		CCPUSL4R7K50
	C308, C6321, C6322		CEANP010M50
	C460, C461		CEANP2R2M50
	C307, C445, C446, C518, C6331, C6332		CEAS010M50
	C508		CEAS100M100
	C705, C706		CEAS100M25
	C514, C522, C523, C6231, C6232, C6421		CEAS100M50
	C6422		CEAS100M50
	C718		CEAS101M10
	C617, C619, C625, C626, C720, C727		CEAS101M16
	C6121, C6122		CEAS101M16
	C707, C717		CEAS101M50
	C521		CEAS102M25
	C627, C634		CEAS220M16
	C722		CEAS220M25
	C524, C527		CEAS221M16
	C525, C528		CEAS221M35
	C708, C710		CEAS221M50
	C305, C306, C328, C329, C428, C429		CEAS2R2M50
	C439, C440, C447-C450, C462, C463		CEAS2R2M50
	C6A01, C6A02, C6061, C6062		CEAS2R2M50
	C324, C325, C402, C403, C416, C417		CEAS470M16
	C426, C427, C436, C437, C451-C453		CEAS470M16
	C458, C459, C516, C535, C628		CEAS470M16
	C517		CEAS470M25
	C653, C719		CEAS470M16
	C510, C515, C6A05		CEAS470M50
	C602		CEAS471M10
	C654		CEAS471M16
	C519		CEAS471M25
	C607, C6161, C6162, C6221, C6222		CEAS4R7M50
	C721		CEAS4R7M50
	C326, C327, C45, C46		CEASR47M50
	C41, C42		CGCYX183K25
	C406, C407, C432, C433		CGCYX333K25
	C430, C431		CGCYX682K25
	C404, C405		CGCYX683K25
	C408, C409, C412, C413		CKPUYB101K50
	C420-C423, C443, C444, C454, C455		CKPUYB101K50
	C703, C704		CKPUYB101K50
	C320, C321, C603		CKPUYB102K50
	C6291, C6292, C6301, C6302		CKPUYB271K50
	C6201, C6202, C6211, C6212, C6441		CKPUYB471K50
	C6442		CKPUYB471K50
	C6131, C6132, C6141, C6142		CKPUYB681K50
	C401, C438, C511-C513, C709, C711		CKPUYF104Z50
	C716, C719A, C723, C724		CKPUYF104Z50
	C300, C41, C42, C52C, C608, C608A		CKPUYF223Z25
	C651, C6A55, C653A, C655, C656, C658		CKPUYF223Z25
	C6241, C6242		CKPUYX122M16
	C6351, C6352, C6A10, C6A11		CKPUYX152M16
	C6011, C6012, C604, C6051		CKPUYX182M16
	C701, C702		CKPUYX222M16
	C434, C435, C649		CKPUYX472M16
	C424, C425, C6151, C6152		CKPUYY103M16
	C648		CQMXA103J100
	C714, C715		CQMXA104J100
	C650		CQMXA153J100
	C652		CQPA223J100
RESISTORS			
	FR501, FR502		RFA1/4PS100J
	R518		RF1/2LMF010J
	R705, R713		RFA1/4PS101J
	R505		RS1/2LMF220J
	R732, R733		RS1/2LMF100J
	R708, R709, R730, R731		RS1/2LMF4R7J
	R738, R739		RS1LMF271J
	VR609(5kΩ)		VRTP6VS502
	Other Resistors		RD1/4PU□□□J
OTHERS			
		SPRING TR. (B)	AZB7019
	CN603	2P TOP BASE	AZK1073
	CN601	3P TOP BASE	AZK1074
	CN602	5P TOP BASE	AZK1076
	CN	5P FTW TOP BASE(2.0) (TO R/P SW PCB ASSY)	AZK7010
		10P FTW TOP BASE (TO CONNECTOR PCB ASSY)	AZK7067
	CN502	4P FTW TOP BASE(2.0)	AZK7096
	CN901	7P FTW TOP BASE	AZK7230
	CN902	18P FFC TOP BASE(1.25mm)	AZK7231
	CN10	10P FFC TOP BASE(1.25mm)	AZK7232
	JK501	4P SP. TERMINAL	AZK7233
	JK301	2P RCA JACK	AZK7234
	CN501	7P FTW BASE(2.5mm)	AZK7239
	CN101	10P HEADER IMSA-9115	AZK7240
		HEAT SINK BRACKET	AZN7142
		HEAT SINK ASSY(7FIN)	AZN7525
		SCREW	BBZ30P060FMC

HEADPHONE PCB ASSY

Mark	No.	Description	Part No.
RESISTORS			
	R741, R742		RS1/2LMF680J
OTHERS			
	CN502	WIRE HOLDER 4P20	AZK7098
	JK502	HEADPHONE JACK	AZK7235
		H/P PCB 48×28×1.6MM	AZN7527

Mark	No.	Description	Part No.
VOL. SEL. PCB ASSY (SDXJ, SDXJ/SA AND SXJ/NC ONLY)			
SWITCHES			
⚠	S502		AZS7005
	S501		AZS7006
OTHERS			
	CN904	2P FTW TOP BASE(2.0)	AZK7011
	VOL. SEL. PCB		AZN7528
CONNECTOR PCB ASSY			
OTHERS			
		4P CON. ASSY 140M/M	AZD7021
		WIRE HOLDER 4P25	AZK7054
		WIRE HOLDER 10P20	AZK7055
	CN	4P CON. ASSY 240M/M (TO DECK SW)	AZK7241
		CONNECTOR PCB 44×41×1.6MM	AZN7529
R/P SW PCB ASSY			
SWITCH			
	S604		AZS1058
CAPACITORS			
	C657, C658A		CKPUYF223Z25
OTHERS			
		WIRE HOLDER 5P20	AZK7051
	TP611	TERMINAL PIN "K"	AZK7052
		R/P SW PCB 33×30×1.6MM	AZN7530

Mark	No.	Description	Part No.
	Q901, Q902		DTC114YS
	Q904		DTC144WS
	D901-D904, D921, D922		1SS176T
	D911-D914		AZQ7119
	D915		AZQ7120
	D920		MTZJ5.1B
SWITCHES			
	S901-S919		AZS7014
COILS			
	L901	(470μH)	AZT7077
	L902	(22μH)	AZT7078
CAPACITORS			
	TC901	TRIMMER(10P)	AZC7265
	C919, C920		CCPUSL220J50
	C918	(2200μ, 5.5V)	AZC7272
	C917, C971		CEJA010M50
	C970		CEJA2R2M50
	C907, C913, C915		CEJA470M16
	C905, C906		CEJA4R7M50
	C972		CKPUYF103Z25
	C914, C916		CKPUYF104Z50
	C901-C904, C912, C908-C910, C923		CKPUYF223Z25
RESISTORS			
	VR901		ASX1021
	Other Resistors		RD1/4PU□□□J
OTHERS			
	FLD901	FLD BJ435GK	AZA7191
	XTL901	X'TAL(4.194304MHz)	AZC7264
	CN902	18P FFC TOP BASE	AZK7231
	CN11	16P FFC SIDE BASE	AZK7236
	CN901	WIRE HOLDER 7P20	AZN7537
		DISPLAY HOLDER	AZN7538
		LED HOLDER	AZN7539
	SEN901	REMOTE SENSOR(GP1U571X)	AZX7036

FRONT PCB ASSY

• CONTRAST OF AZW7219, AZW7202 AND AZW7221

AZW7219, AZW7202 and AZW7221 have the same construction except for the following :

Mark	Symbol & Description	Part No.		
		AZW7219	AZW7202	AZW7221
	Q913	Not used	2SA733	Not used
	D909	Not used	1SS176T	1SS176T
	C922	Not used	CKPUYF223Z25	Not used
	R968	Not used	RD1/6W104J	Not used
	R972	Not used	RD1/6W224J	Not used
	CN904 WIRE HOLDER 2P20	Not used	AZK7061	Not used

• PART LIST FOR AZW7219

SEMICONDUCTORS		
	IC901	AZQ7115
	IC902	NJM78L05A
	IC903	BU2114
	Q903	2SC945
	Q912 (DTA114YS)	AZQ7124

CD DECODER PCB ASSY

SEMICONDUCTORS		
	IC1	AZQ7016
	IC3	AZQ7019
	IC4	CXD2508AQ
	IC5	NJM4558LD
	IC2	TC9173P
	Q1, Q2, Q6, Q7	2SA952
	Q3, Q5, Q8-Q12	2SC2001
	Q4	2SC945A
	D24-D27	1N4002L
	D1	1SS176T
	D2	MTZJ5.1A
	D3	MTZJ5.6B
COILS		
	L1 (10μH)	AZT7016
	L4 (1.2μH)	AZT7017

Mark	No.	Description	Part No.
CAPACITORS			
	C39		CCPUSL220J50
	C40		CCPUSL240J50
	C2, C3, C11, C22, C30, C41-C43, C46		CEAS101M10
	C24		CEAS220M16
	C45		CEAS221M10
	C57, C58		CEAS2R2M50
	C29		CEAS471M10
	C19, C36		CEAS4R7M50
	C9, C25		CEASR47M50
	C85-C87, C89		CKPUYB101K50
	C38		CKPUYB102K50
	C53-C56		CKPUYB151K50
	C34		CKPUYB221K50
	C51, C52		CKPUYB331K50
	C88		CKPUYB561K50
	C11A, C13, C15, C16, C18, C23, C37		CKPUYF104Z50
	C8		CKPUYP223Z25
	C31		CKPUYF473Z50
	C32		CKPUYX152M16
	C14, C35A, C35B		CKPUYX222M16
	C59, C60		CKPUYX272M16
	C1		CKPUYX472M16
	C4, C6, C10, C12, C20, C27, C33, C35		CKPUYY103M16
	C17, C28		CQMXA104J100
	C26		CQMXA223J100
	C5, C7		CQMXA333J100
	C21		CQMXA473J100
RESISTORS			
	VR1	SFR(50kΩ)	AZC7105
	Other Resistors		RD1/4PU□□□J
OTHERS			
	XTL1	X'TAL(33.8688MHz)	AZC7058
		3P CON. ASSY 200M/M	AZD7017
		8P CON. ASSY 400M/M	AZD7034
		5P CON. ASSY(PH) 350M	AZD7077
	CN3	6P CON. ASSY 400M/M	AZD7078
	CN1	PH 5P TOP BASE	AZK7012
	CN2	PH 8P TOP BASE	AZK7022
	CN4	WIRE HOLDER 5P20	AZK7051
	CN12	EH 2P TOP BASE	AZK7068
	CN8	EH 2P SIDE BASE	AZK7085
	CN7	EH 3P SIDE BASE	AZK7086
	CN5	EH 4P SIDE BASE	AZK7087
	CN9	WIRE HOLDER 4P20	AZK7098
	P1	EARTH TER ASSY	AZK7105
	CN11	16P FFC SIDE BASE	AZK7236
	CN10	10P FFC SIDE BASE	AZK7237

Mark	No.	Description	Part No.
CD LED PCB ASSY			
SEMICONDUCTORS			
	D20, D21		AZQ7121
	D17-D19, D22		AZQ7122
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
	CN9	WIRE HOLDER 4P20	AZK7098
		CD LED PCB 140×10×1.6MM	AZN7533

CD SENSOR PCB ASSY

SEMICONDUCTORS			
	Q1		AZQ7007
	D4		AZQ7008
SWITCHES			
	S1, S2		AZS7032
OTHERS			
	CN4	WIRE HOLDER 5P20	AZK7051
		2 LED HOLDER	AZK7059
		CD SEN. PCB 39.9×20×1.6MM	AZN7534

AC SUPPLY PCB ASSY

• CONTRAST OF AZW7223, AZW7204 AND AZW7224

AZW7223, AZW7204 and AZW7224 have the same construction except for the following :

Mark	Symbol & Description	Part No.		
		AZW7223	AZW7204	AZW7224
	R500 (3.3M,1/2W)	AZC7023	Not used	Not used
	AC SUP. PCB 60.5 × 70 × 1.6 MM	AZN7550	AZN7535	AZN7550

• PARTS LIST FOR AZW7223

RESISTOR			
	R500(3.3MΩ, 1/2W)		AZC7023
OTHERS			
	TP502, TP503	TERMINAL PIN "L"	AZK7079
		FUSE HOLDER	AZK7158
	CN501	WIRE HOLDER 7P25	AZK7242
		AC SUP. PCB 60.5×70×1.6MM	AZN7550

Mark	No.	Description	Part No.

TUNER PCB ASSY

SEMICONDUCTORS

	IC102	AZQ7116
	IC101	LA1186N
	IC201	LC7218
	Q101, Q102	2SC1675
	Q107, Q108	2SC945
	Q106	2SK161
	Q105	AZQ7124
	Q109	DTC114YS
	D101, D102, D105, D111, D112, D202	1SS176T
	D108	AZQ7123
	D106-1, D106-2	AZQ7127
	D110	MTZ5.6B

COILS AND FILTERS

	L103 FM OSC. COIL	AZT1072
	L102 FM RF COIL	AZT1074
	L107, L108	AZT1078
	L105 MW OSC. COIL	AZT7003
	L104 AM ANT. COIL	AZT7029
	L101 FM ANT. COIL	AZT7079
	L203 P. COIL	AZT7080
	CF103 CERAMIC F.	AZT7004
	CF101 CERAMIC F.	AZT7015
	CF102 CERAMIC F.	AZT7027

TRANSFORMERS

	T101 FM IF TRANS.	AZT1080
	T102 AM IF TRANS.	AZT1082

CAPACITORS

	TC101, TC102 TRIMER (10P)	AZC7268
	C213, C214	CCCCH270J50
	C105	CCPUCH180J50
	C109	CCPUCH2R2K50
	C110	CCPUCH4R7K50
	C117, C124	CCPUSL200J50
	C121	CCPUSL470J50
	C111, C145	CCPUSL560J50
	C123, C125, C129, C161, C162	CEAS010M50
	C127	CEAS100M25
	C118, C140, C142	CEAS101M16
	C215	CEAS220M16
	C122	CEAS2R2M50
	C135, C143	CEAS3R3M50
	C207	CEAS470M16
	C137	CEASR47M50
	C114, C171	CGCYF104Z25
	C112, C155, C209, C210-C212	CKPUYB101K50
	C101, C102, C119, C134, C148, C157	CKPUYB102K50
	C100D	CKPUYB470K50
	C100A-C100C	CKPUYB472K50
	C150	CKPUYF104Z50
	C104, C106-C108, C128, C139, C141	CKPUYF223Z25
	C147, C149, C153, C160	CKPUYF223Z25
	C126	CKPUYF473Z16
	C151, C152	CKPUYX152M16
	C138, C144, C208	CKPUYY103M16
	C132, C133	CQMXA103J100
	C130, C131	CQMXA153J100
	C116	CQPA471J100

RESISTORS

	R130	RS1/2LMF151J
	Other Resistors	RD1/4PU□□□J

OTHERS

	X201 X'TAL(7.2MHz)	AZC1243
	CF105 RESONATOR CSB456F15	AZC7266
	CF104 RESONATOR CDA10.7MG43-A	AZC7267
	JK101 4P ANT TER.	AZK7063
	TP1, TP2 2P PIN HEADER(2.5mm)	AZK7157
	CN101 10P SOCKET IMEA9115S	AZK7243
	EARTH TERMINAL	AZN7536

5. ADJUSTMENTS

5.1 TUNER SECTION

5.1.1 CLOCK FREQUENCY ADJUSTMENT

(1) Connect a Frequency Counter to TP1 and G on the FRONT PCB ASSY via the BUFFER AMP PCB as shown in Fig. 1.

(2) Adjust TC901 so that the frequency becomes 4.194304MHz ± 40Hz (4.194264MHz to 4.194344 MHz).

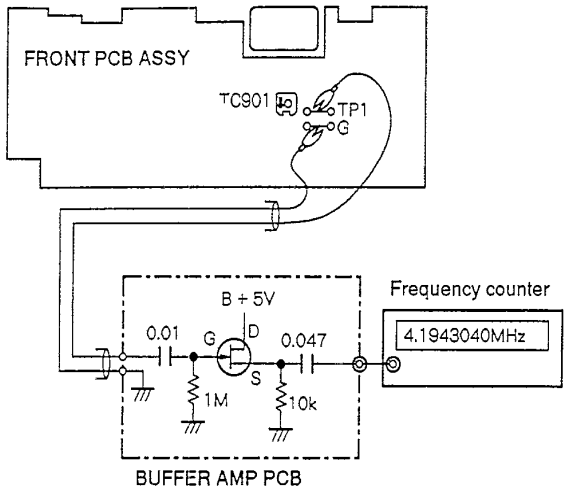


Fig. 1 Clock Frequency Adjustment

5.1.2 FM TUNER SECTION

■ FM Range Adjustment

(1) FM RF signal generator input through Antenna output from JK501 Speaker terminal on the MAIN PCB ASSY.

(2) Digital DC voltmeter connected to TP2 on the TUNER PCB ASSY.

(3) Tuning to 87.5MHz, check counter reading as 1.6V ± 0.05V.

(4) Tuning to 108MHz, check the reading as over 7.6V.

(5) Repeat adjustments as necessary to minimize tracking error.

■ FM Sensitivity Adjustment

(1) Tuning to 90MHz, turn VOLUME control (VR901) clockwise to 2/3 position and check 26dB quieting sensitivity under 20dB.

(2) Tuning to 106MHz, turn VOLUME control (VR901) clockwise to 2/3 position and check 26dB quieting sensitivity under 20dB.

5.1.3 AM TUNER SECTION

■ AM Range Adjustment

(1) AM RF signal generator output from loop antenna, and received by AM loop antenna.

(2) Digital DC voltmeter connected to TP2 on the TUNER PCB ASSY.

(3) Tuning to 530kHz, adjust L105 and let counter reading as 1.2V ± 0.05V.

(4) Tuning to 1710kHz, check counter reading as 7.2V to 9.5V.

(5) Repeat adjustments as necessary to minimize tracking error.

AM Frequency : 530kHz to 1710kHz (10kHz STEP)
522kHz to 1629kHz (9kHz STEP)

■ AM IF Adjustment

(1) Connect AM SG (999kHz mod. 30%; 400Hz; 63dB) input from JK101 AM antenna terminal IN.

(2) Connect the oscilloscope to TP1 on the TUNER PCB ASSY.

(3) Adjust T102 on the TUNER PCB ASSY for maximum output. (Fig. 2)

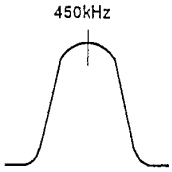


Fig. 2

■ AM Sensitivity Adjustment

(1) Tuning to 600kHz, turn VOLUME control (VR901) clockwise to 2/3 position and adjust L104 on the TUNER PCB ASSY for maximum output. (Fig. 3)

(2) Tuning to 1400kHz, turn VOLUME control (VR901) clockwise to 2/3 position and adjust TC102 for maximum output. (Fig. 3)

(3) Repeat adjustments as necessary to minimize tracking error.

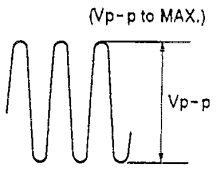


Fig. 3

5.2 CASSETTE DECK SECTION

Tape Speed Adjustment

(1) Insert Test tape STD - 301E into Deck I , in play mode. (normal speed)
(2) Digital counter connect to JK501 speaker terminal on the MAIN PCB ASSY.
(3) Adjust VR609 on the MAIN PCB ASSY, let counter reading as 2940Hz to 3090Hz.

Head Azimuth Adjustment

(1) Insert Test tape STD - 331E into Deck I , in play mode.
(2) AC milli-voltmeter connect to JK501 Speaker terminal on the MAIN PCB ASSY.
(3) Adjust the left side screw Ⓐ for the maximum output. (Fig. 4)
(4) Insert Test tape STD - 331E into deck II .
(5) In play mode.
(6) Adjust the left side screw Ⓐ for the maximum output. (Fig. 4)

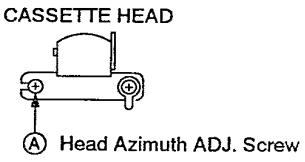


Fig. 4

5.3 CD SECTION

(1) Stop the test disc after the play.
(2) Connect the Voltmeter to CN12 on the CD DECODER PCB ASSY as shown in Fig. 5.
(3) Adjust VR01 so that the voltage becomes 0mV ± 20mV.

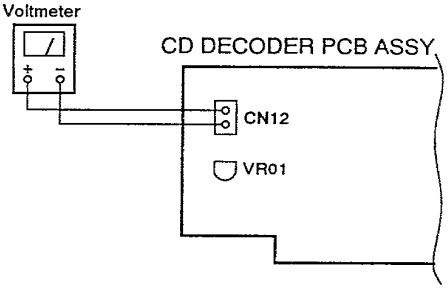
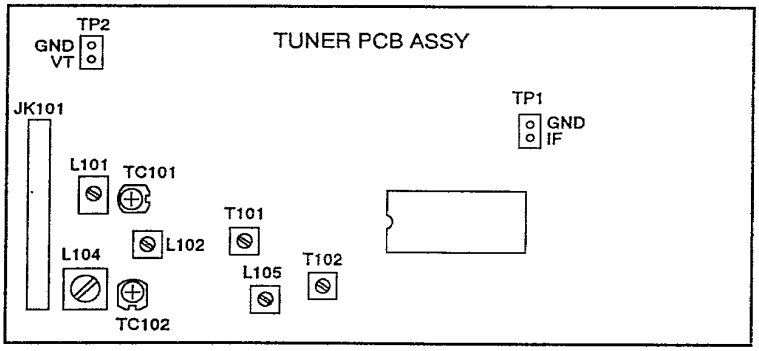


Fig. 5



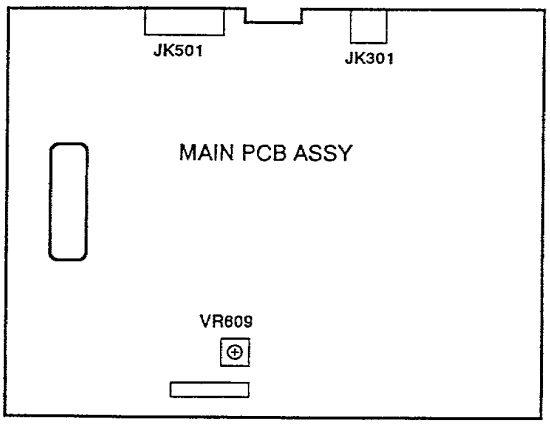


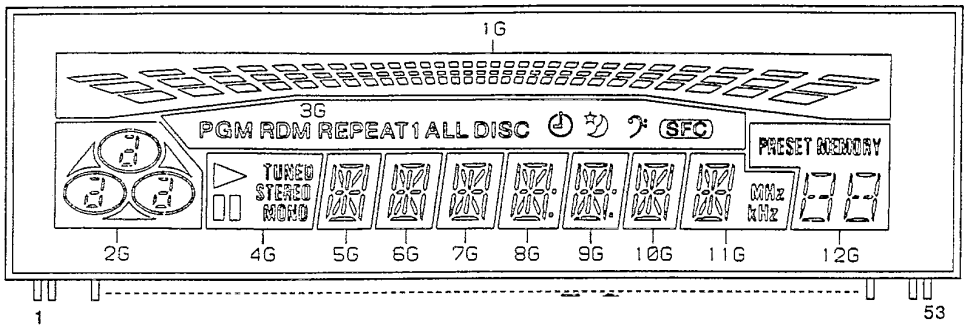
Fig.6 Adjustment points

6. FL INFORMATION

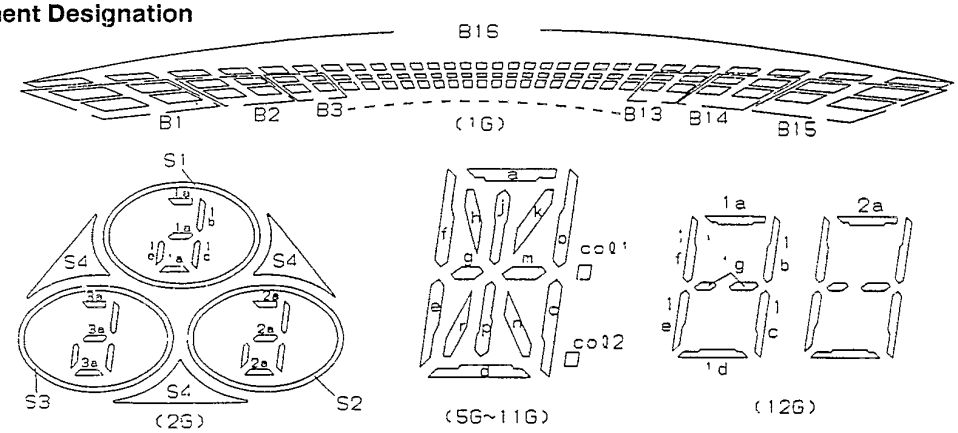
■ AZA7191 (FRONT PCB ASSY : FLD901)

• FL Display

• Grid Assignment and Pin Assignment



• Segment Designation



• Pin Connection

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
CONNECTION	F1	F1	P	N	P	N	G	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NC	FL2	FL1

• Anode Connection

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	B1	1a	PGM	▷	-	-	-	col1	col1	-	MHz	1a
P2	B2	1b	RDM	▯▯	a	a	a	a	a	a	a	1b
P3	B3	1c	REPEAT	TUNED	h	h	h	h	h	h	h	1f
P4	B4	1e	1	STEREO	j	j	j	j	j	j	j	1g
P5	B5	2a	ALL	MONO	k	k	k	k	k	k	k	1c
P6	B6	2b	DISC	-	b	b	b	b	b	b	b	1e
P7	B7	2c	♩	-	f	f	f	f	f	f	f	1d
P8	B8	2e	♫	-	m	m	m	m	m	m	m	2a
P9	B9	3a	𝄢	-	g	g	g	g	g	g	g	2b
P10	B10	3b	SFC	-	c	c	c	c	c	c	c	2f
P11	B11	3c	-	-	e	e	e	e	e	e	e	2g
P12	B12	3e	-	-	r	r	r	r	r	r	r	2c
P13	B13	S1	-	-	p	p	p	p	p	p	p	2e
P14	B14	S2	-	-	n	n	n	n	n	n	n	2d
P15	B15	S3	-	-	c	d	d	d	d	d	d	PRESET
P16	B16	S4	-	-	-	-	-	col2	col2	-	kHz	MEMORY

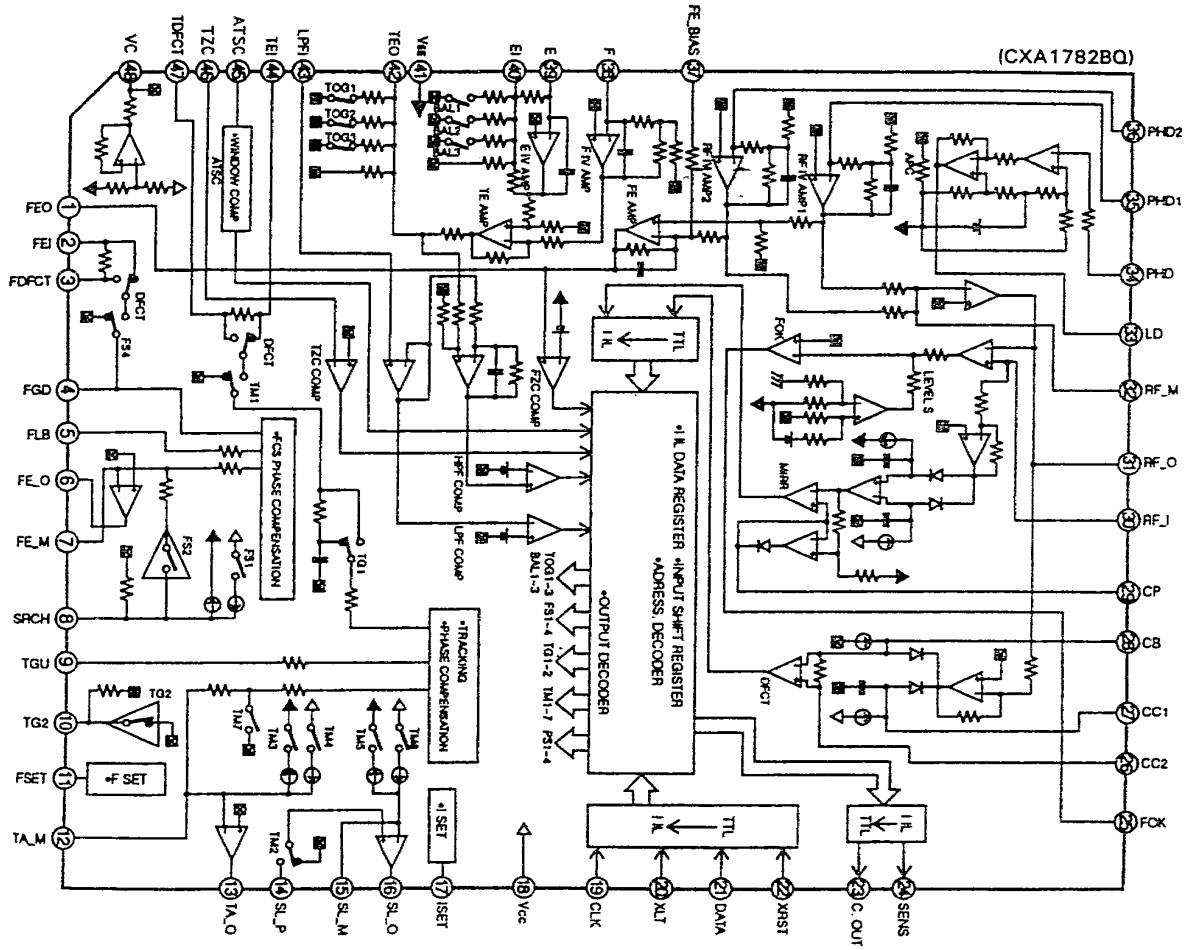
7. IC INFORMATION

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

■ AZQ7016 (IC01 : CD DECODER PCB ASSY)

• RF/Servo Amplifier

• Block Diagram



• Pin Function

No.	Pin Name	I/O	Description
1	FEO	I	Focus errer amplifier output terminal, internally connected to the FZC comparator input.
2	FEI	I	Focus errer input terminal
3	FDFCT	I	Time constant capacitor connection terminal at the time of a defect.
4	FGD	I	Connect this terminal to earth via a capacitor to drop the high-range gain of the focus servo.

No.	Pin Name	I/O	Description
5	FLB	I	Time constant external connection terminal for raising of the focus servo low range.
6	FE O	O	Focus drive output
7	FE M	I	Focus amplifier reversion input terminal
8	SRCH	I	Time constant external connection terminal to produce the focus search waveform.

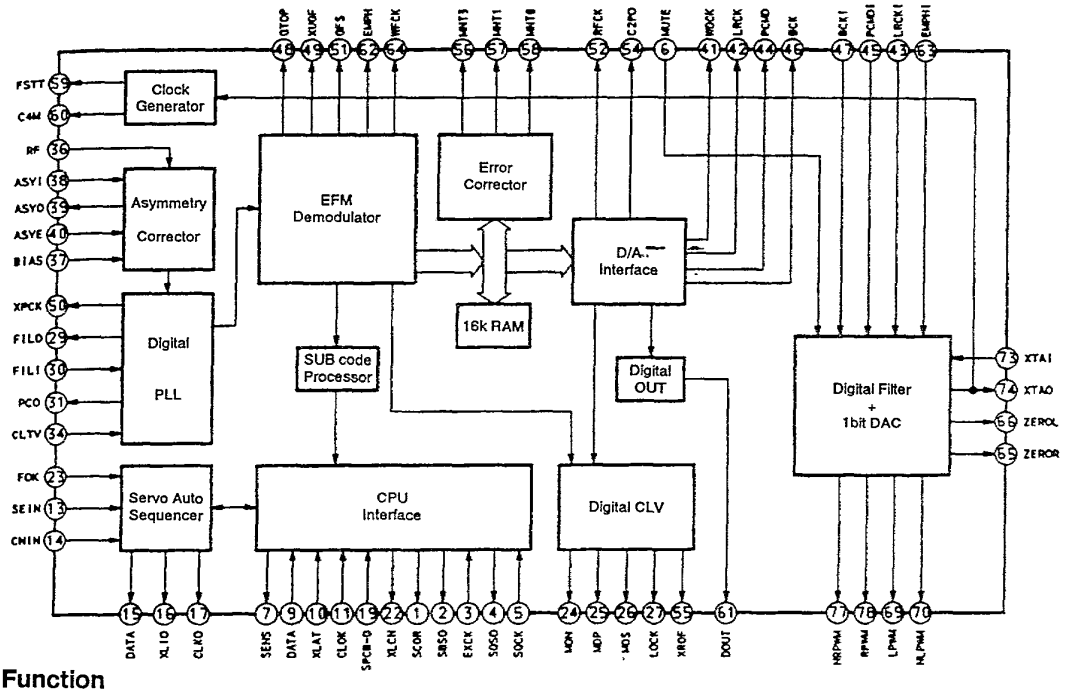
No.	Pin Name	I/O	Description
9	TGU	I	Time constant external connection terminal for tracking high-range gain switching.
10	TG2	I	
11	FSET	I	Terminal for peak setting for focus tracking phase compensation.
12	TA M	I	Tracking amplifier reversion input terminal
13	TA O	O	Tracking drive output
14	SL P	I	Sled amplifier non reversion input terminal
15	SL M	I	Sled amplifier reversion input terminal
16	SL O	O	Sled drive output
17	ISET	I	Current for decision of focus search, track jump, and sled kick height flows.
18	Vcc	–	
19	CLK	I	Serial data transmission clock input from the CPU (no pull-up resistor)
20	XLT	I	Latch input from the CPU (no pull-up resistor)
21	DATA	I	Serial data input from the CPU (no pull-up resistor)
22	XRST	I	Reset input terminal "L" = Reset (no pull-up resistor)
23	C.OUT	O	Signal output for track number count
24	SENS	O	Output of FZC, DFCT, TZC, Gain, BAL, etc. by command from the CPU.
25	FOK	O	Output terminal of the focus OK comparator
26	CC2	O	Input terminal for capacitative-coupled DEFECT bottom hold output
27	CC1	I	DEFECT bottom hold output terminal
28	CB	I	DEFECT bottom hold capacitor connection terminal
29	CP	I	MIRR hold capacitor connection terminal MIRR comparator non reversion input terminal
30	RF I	I	Input terminal for capacitative-coupled RF summing amplifier output
31	RF O	O	RF summing amplifier output terminal Eye pattern checkpoint

No.	Pin Name	I/O	Description
32	RF M	I	RF summing amplifier reversion input terminal The RF amplifier gain is decided by the resistor connected between this terminal and the RFO terminal.
33	LD	O	APC amplifier output terminal
34	PHD	I	APC amplifier input terminal
35	PHD1	I	RFI-V amplifier reversion input terminals Connected to the A+C, B+D terminals of the photodiode and receiving current input.
36	PHD2	I	
37	$\overline{\text{FE BIAS}}$	I	Bias adjustment terminal of the focus errer amplifier.
38	F	I	F, E I-V amplifier reversion input terminals Connected to F and E of the photodiode and receiving current input.
39	E	I	
40	EI	–	Gain adjustment terminal of the I-V amplifier. (when automatic BAL adjustment is not used)
41	VEE	–	
42	TEO	O	Output terminal of the tracking error amplifier. E-F signal output
43	LPFI	I	Comparator input terminal for BAL adjustment. (input from TEO via LPF)
44	TEI	I	Tracking error input terminal
45	ATSC	I	ATSC detection window comparator input terminal
46	TZC	I	Tracking zero cross comparator input terminal.
47	TDFCT	I	Time constant capacitor connection terminal at the time of a defect.
48	VC	O	(VCC+VEE)/2 DC voltage output terminal

■ CXD2508AQ (IC04 : CD DECODER PCB ASSY)

• Digital Signal Processor

• Block Diagram



• Pin Function

No.	Pin Name	I/O	Description
1	SCOR	O	"H" when subcode sync S0 or S1 has been detected
2	SBSO	O	Serial output of SUBP to W
3	EXCK	I	Clock input for SBSO readout
4	SQSO	O	Serial output of SUBQ 80 BIT.
5	SQCK	I	Clock input for SQSO readout
6	MUTE	I	Mute with "H", cancellation with "L"
7	SENS	O	SENS output, output to the CPU
8	XRST	I	System reset, reset with "L"
9	DATA	I	Serial data input from the CPU
10	XLAT	I	Latch input from the CPU, serial data latching with drop
11	CLOK	I	Serial data transmission clock input from the CPU
12	Vss	–	GND

No.	Pin Name	I/O	Description
13	SEIN	I	Sensing input from SSP
14	CNIN	I	Track jump number count signal input
15	DATO	O	Serial data output to SSP
16	XLTO	O	Serial data latching output to SSP, latching with drop
17	CLKO	O	Serial data transmission clock output to SSP
18	SPOA	I	Microcomputer expansion interface (Input A)
19	SPOB	I	Microcomputer expansion interface (input B)
20	SPOC	I	Microcomputer expansion interface (input C)
21	XTSL	I	X'tal select input terminal L : 16.9344MHz , H : 33.8688MHz
22	XLON	O	Microcomputer expansion interface (output)
23	FOK	I	Focus OK input pin, used for SENS output and servo autosequencer

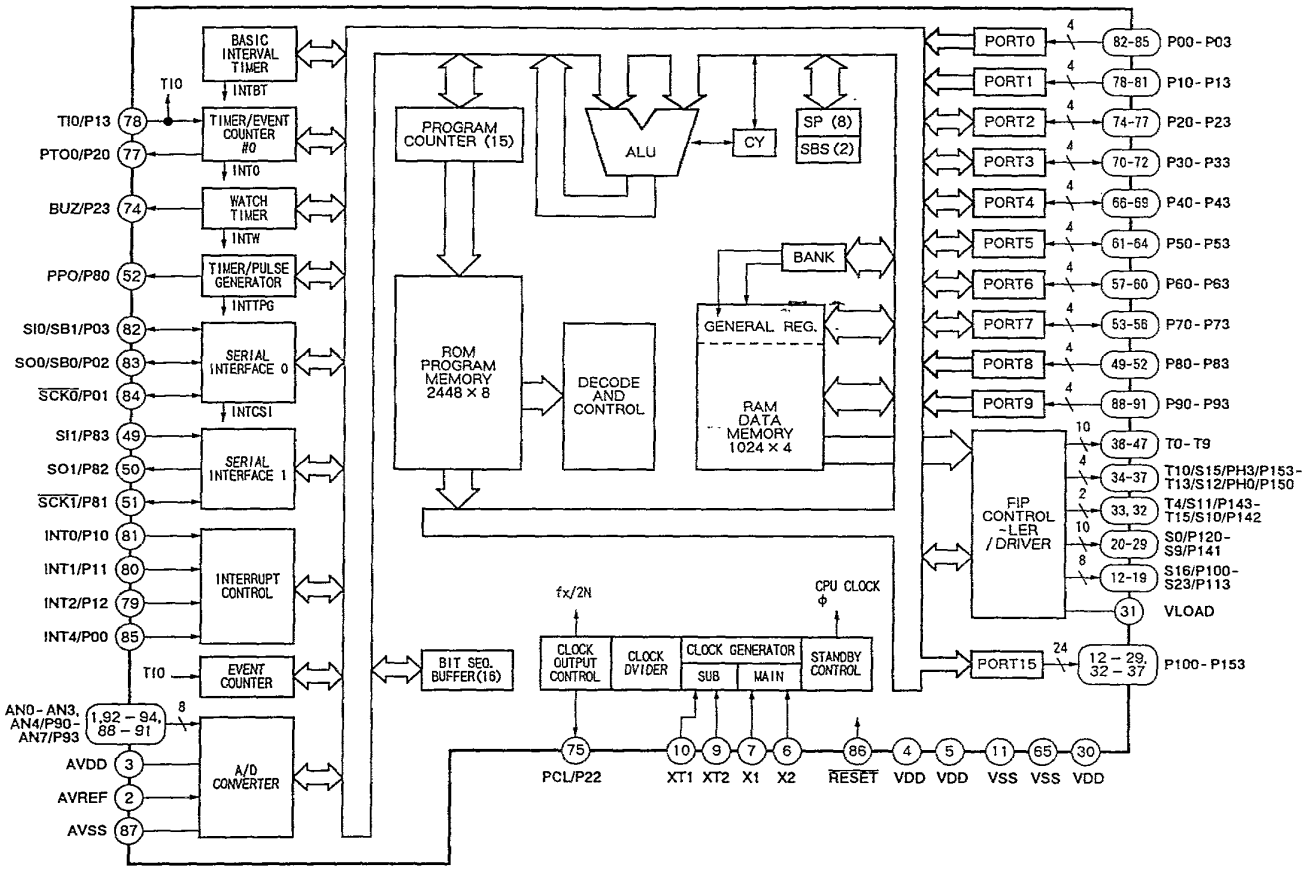
No.	Pin Name	I/O	Description
24	MON	O	Spindle motor ON/OFF control output
25	MDP	O	Spindle motor servo control
26	MDS	O	
27	LOCK	O	GFS sampling at 460 Hz, "H" output when GFS is "H", "L" output with 8 consecutive times "L"
28	TEST	I	TEST pin, GND at the time of normal use
29	FILO	O	Filter output for master PLL (slave = digital PLL)
30	FILI	I	Filter input for master PLL
31	PCO	O	Charge pump output for master PLL
32	V_{DD}	–	Digital power supply for DSP
33	AV_{SS1}	–	Analog GND for DSP
34	CLTV	I	VCO control voltage input for master PLL
35	AV_{DD1}	–	Analog power supply for DSP
36	RF	I	EFM signal input
37	BIAS	I	Asymmetry compensation circuit constant current input
38	ASYI	I	Asymmetry compensation circuit comparation voltage input
39	ASYO	O	EFM full swing output ("L" = Vss, "H" = V_{DD})
40	ASYE	I	"L": Asymmetry compensation OFF, "H": Asymmetry compensation ON
41	WDCK	O	48 bit slot D/A interface, read clock (2FS)
42	LRCK	O	48 bit slot D/A interface, LR clock (FS)
43	LRCKI	I	LR clock input to DAC (48 bit slot)
44	PCMD	O	D/A interface, serial data (2'SCOMP, MSB first)
45	PCMDI	I	Audio data input to DAC (48 bit slot)
46	BCK	O	D/A interface, bit clock
47	BCKI	I	Bit clock input to DAC (48 bit slot)
48	GTOP	O	GTOP output
49	XUGF	O	XUGF output
50	XPCK	O	XPLCK output
51	GFS	O	GFS output
52	RFCK	O	RFCK output

No.	Pin Name	I/O	Description
53	Vss	–	GND
54	C2PO	O	C2PO output
55	XROF	O	XRAOF output
56	MNT3	O	MNT3 output
57	MNT1	O	MNT1 output
58	MNT0	O	MNT0 output
59	FSTT	O	2/3 frequency division output of the pins 73 and 74
60	C4M	O	4.2336 MHz output
61	DOUT	O	Digital Out output terminal
62	EMPH	O	"H" with emphasis for the playback disc, "L" with no emphasis
63	EMPHI	I	DAC deemphasis ON/OFF, ON with "H", OFF with "L"
64	WFCK	O	WFCK (WRITE FRAME CLOCK) output
65	ZEROL	O	No sound data detection output, "H" with no sound data detection (Lch)
66	ZEROR	O	No sound data detection output, "H" with no sound data detection (Rch)
67	DTSI	I	DAC test terminal 1, normally "L"
68	V_{DD}	–	DAC digital power supply
69	LPWM	O	Lch PWM output (reverse phase)
70	NLPWM	O	Lch PWM output (normal phase)
71	AV_{DD2}	–	Power supply for Lch PWM driver
72	AV_{DD3}	–	Power supply for Xtal
73	XTAI	I	Xtal oscillation circuit input for 33.8688 MHz
74	XTAO	O	Xtal oscillation circuit output for 33.8688 MHz
75	AV_{SS3}	–	GND for Xtal
76	AV_{SS2}	–	GND for PWM driver
77	NRPWM	O	Rch PWM output (reverse phase)
78	RPWM	O	Rch PWM output (normal phase)
79	DTS2	I	Test terminal 2 for DAC, normally "L"
80	DTS3	I	Test terminal 3 for DAC, normally "L"

■ AZQ7115 (IC901 : FRONT PCB ASSY)

- **Microcomputer**

• Block Diagram



• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	AN0	I	Analog input to A/D converter	16	S20/P110	O	Segment output / P-ch open drain 4 bit output port
2	AVREF	I	Reference voltage input for A/D converter	17	S21/P111		
3	AVDD	—	Power supply for A/D converter	18	S22/P112		
4	VDD	—	Power supply voltage	19	S23/P113		
5	VDD	—	Power supply voltage	20	S0/P120	O	Segment output / P-ch open drain 4 bit output port
6	X2	I	Connect the crystal or ceramic resonator for the main system clock oscillation	21	S1/P121		
7	X1			22	S2/P122		
8	IC	—		23	S3/P123		
9	XT2	—	Connect the crystal resonator for the sub system clock oscillation Input to XT1 and XT2 is open	24	S4/P130	O	Segment output / P-ch open drain 4 bit output port
10	XT1	I		25	S5/P131		
11	VSS	—	GND	26	S6/P132		
12	S16/P100	O	Segment output / P-ch open drain 4 bit output port	27	S7/P133		
13	S17/P101			28	S8/P140	O	Segment output / P-ch open drain 4 bit output port
14	S18/P102			29	S9/P141		
15	S19/P103			30	VDD	—	Power supply voltage

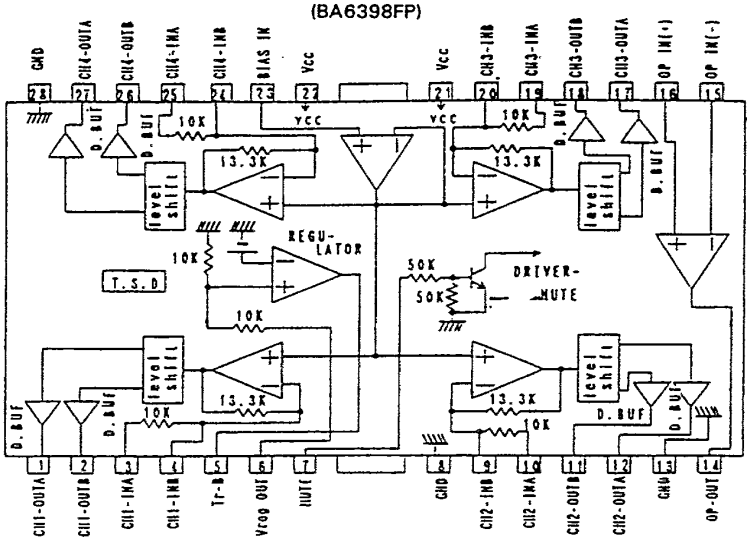
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
31	VLOAD	—	FIP controller/connect a pull-down resistor of driver / Apply a power	63	P51	I/O	N-ch open drain 4 bit input/output port (PORT5)
32	T15/S10/P142	O	Digit/segment current output / P-ch open drain 4 bit output port	64	P50		
33	T14/S11/P143			65	VSS	—	GND
34	PH0/T13/S12/P150	O	Digit/segment current output / P-ch open drain 4 bit output port	66	P43	I/O	N-ch open drain 4 bit input/output port (PORT4)
35	PH1/T12/S13/P151			67	P42		
36	PH2/T11/S14/P152			68	P41		
37	PH3/T10/S15/P153			69	P40		
38	T9	O	Current output for digit output	70	P33	I/O	Programmable 4 bit input/output port (PORT3)
39	T8			71	P32		
40	T7			72	P31		
41	T6			73	P30		
42	T5			74	P23/BUZ	I/O	4 bit input/output port (PORT2)/ Fixed frequency output (for buzzer or trimming the system clock)
43	T4			75	P22/PCL	I/O	4 bit input/output port (PORT2)/ Clock output
44	T3			76	P21	I/O	4 bit input/output port (PORT2)
45	T2			77	P20/PTO0	I/O	4 bit input/output port (PORT2)/ Timer / event counter output
46	T1			78	P13/TI0	I	4 bit input port (PORT1)/ External event pulse output to the timer/event counter #0 and #1
47	T0			79	P12/INT2	I	4 bit input port (PORT1)/ Edge detection testable input (non-synchronous)
48	VDD	—	Power supply voltage	80	P11/INT1	I	4 bit input port (PORT1)/ Edge detection vector interrupt input (non-synchronous)
49	P83/SI1	I	4 bit input port (PORT8) / Serial data input	81	P10/INT0	I	4 bit input port (PORT1)/ Edge detection vector interrupt input (clock synchronous)
50	P82/SO1	I/O	4 bit input port (PORT8) / Serial data output	82	P03/SIO/SB1	I/O	4 bit input port (PORT0)/ Serial data input / Serial bus input/output
51	P81/$\overline{\text{SCK1}}$	I/O	4 bit input port (PORT8) / Serial clock input/output	83	P02/SO0/SB0	I/O	4 bit input port (PORT0)/ Serial data output / Serial bus input/output
52	P80/PPO	I/O	4 bit input port (PORT8) / Pulse output of the timer/pulse generator	84	P01/$\overline{\text{SCK0}}$	I/O	4 bit input port (PORT0)/ Serial clock input/output
53	P73	I/O	4 bit input/output port (PORT7)	85	P00/INT4	I	4 bit input port (PORT0)/ Edge detection vector interrupt input
54	P72			86	$\overline{\text{RESET}}$	I	System reset input
55	P71			87	AVSS	—	Reference GND of A/D converter
56	P70			88	AN7/P93	I	Analog input to A/D converter / 4 bit input port (PORT9)
57	P63	I/O	Programmable 4 bit input/output port (PORT6)	89	AN6/P92		
58	P62			90	AN5/P91		
59	P61			91	AN4/P90		
60	P60			92	AN3	I	Analog input to A/D converter
61	P53	I/O	N-ch open drain 4 bit input/output port (PORT5)	93	AN2		
62	P52			94	AN1		

■ AZQ7019 (IC03 : CD DECODER PCB ASSY)

• 4ch BTL Driver

• Block Diagram

(BA6398FP)



• Pin Function

No.	Pin Name	Description
1	CH1−OUT A	Inverted output of CH1
2	CH1−OUT B	Non inverted output of CH1
3	CH1−IN A	Input for CH1
4	CH1−IN B	Gain adjustment of CH1
5	Tr−B	Connection with BASE of PNP Tr
6	Vreg OUT	Output for regulator (5V) (*1)
7	MUTE	Mute Control
8	GND	Ground
9	CH2−IN B	Gain adjustment of CH2
10	CH2−IN A	Input for CH2
11	CH2−OUT B	Non inverted output of CH2
12	CH2−OUT A	Inverted output of CH2
13	GND	Substrate Ground
14	OP OUT	Output for OP-amp

No.	Pin Name	Description
15	OP IN (−)	Inverting input for OP-amp
16	OP IN (+)	Non inverting input for OP-amp
17	CH3−OUT A	Non inverted output of CH3
18	CH3−OUT B	Inverted output of CH3
19	CH3−IN A	Input for CH3
20	CH3−IN B	Gain adjustment of CH3
21	Vcc	Vcc
22		
23	BIAS IN	Input for reference voltage
24	CH4−IN B	Gain adjustment of CH4
25	CH4−IN A	Input for CH4
26	CH4−OUT B	Non inverted output of CH4
27	CH4−OUT A	Inverted output of CH4
28	GND	Substrate Ground

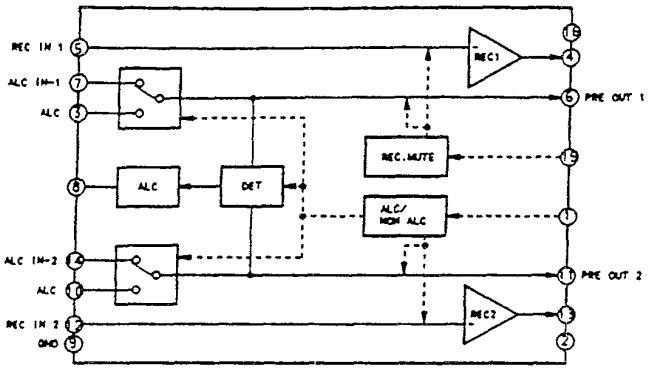
**1. Connect collector of external PNP Tr.*

■ AZQ7010 (IC602 : MAIN PCB ASSY)

• Dual Recording Pre-amp. with ALC

• Block Diagram

(TA8135P)

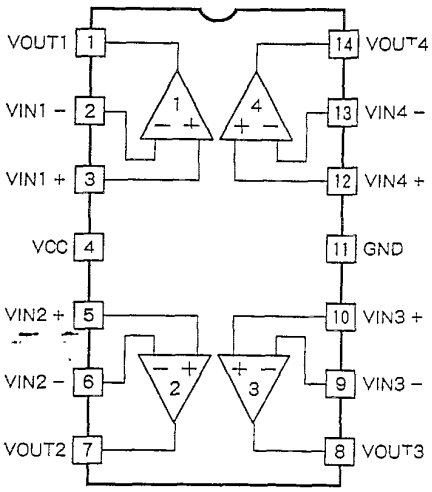


■ AZQ7112 (IC402 : MAIN PCB ASSY)

• Quad OP Amplifier

• Block Diagram

(LA6324)

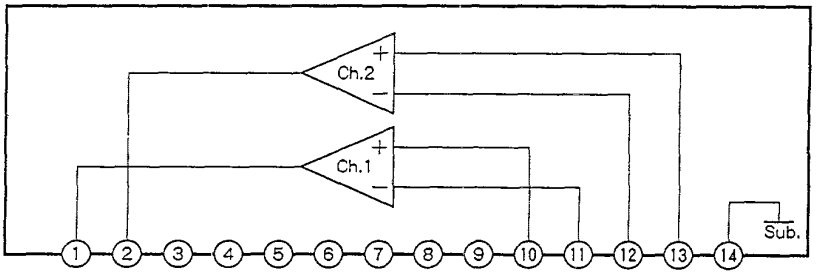


■ AZQ7111 (IC701 : MAIN PCB ASSY)

• AF Power Amplifier

• Block Diagram

(STK405)

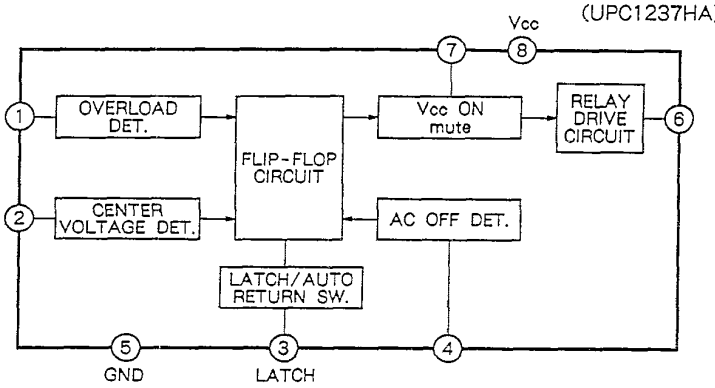


■ AZQ7113 (IC409 : MAIN PCB ASSY)

• Protection Circuit IC for Power Amplifier

• Block Diagram

(UPC1237HA)



8. DISASSEMBLY

8.1 HOW TO REMOVE CHANGER BASE

Remove the Changer Base by removing the two screws Ⓐ and pull out Changer Base from the Chassis.

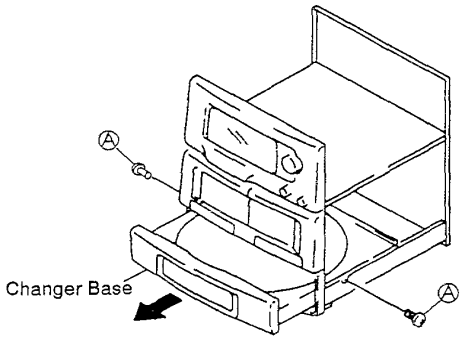


Fig. 1

8.2 HOW TO REMOVE TURNTABLE

1. Remove the Turntable by sliding the Guide Plate outward.
2. Disassemble the Base Cover by removing the 2 screws Ⓑ.

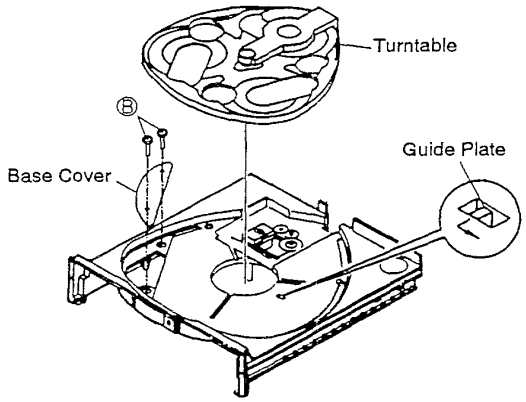


Fig. 2

After removing the Turntable, remove Magnetic Holder from the Arm assy, and use it to clamp a CD.

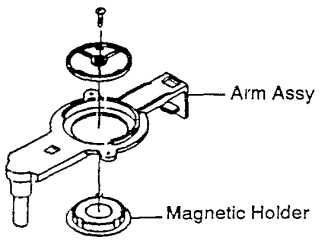


Fig. 3

8.3 LASER DIODE PROTECTION OF THE PICKUP

During transit, Laser diode of the Pickup is protected from an electrostatic damage, by shorting Vcc and GND of the Pickup assy with solder. Remove the solder after you have mounted the Pickup assy to the unit.
Laser diode will not light unless this protection solder is removed.

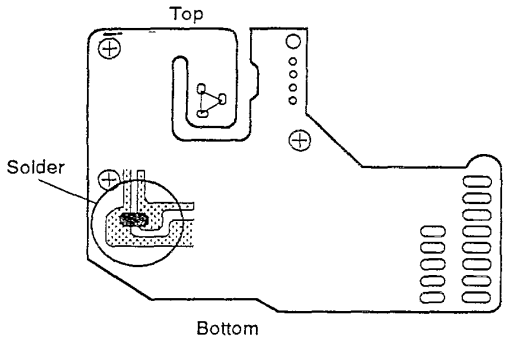


Fig. 4 Pickup Side View

8.4 HEIGHT OF SPINDLE MOTOR TURNTABLE

Spindle motor is available as CD mechanism assy, and so the height adjustment of Spindle Motor Turntable is unnecessary. But in case of confirming the height level, refer to the following figure.

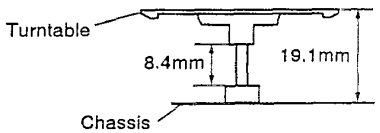
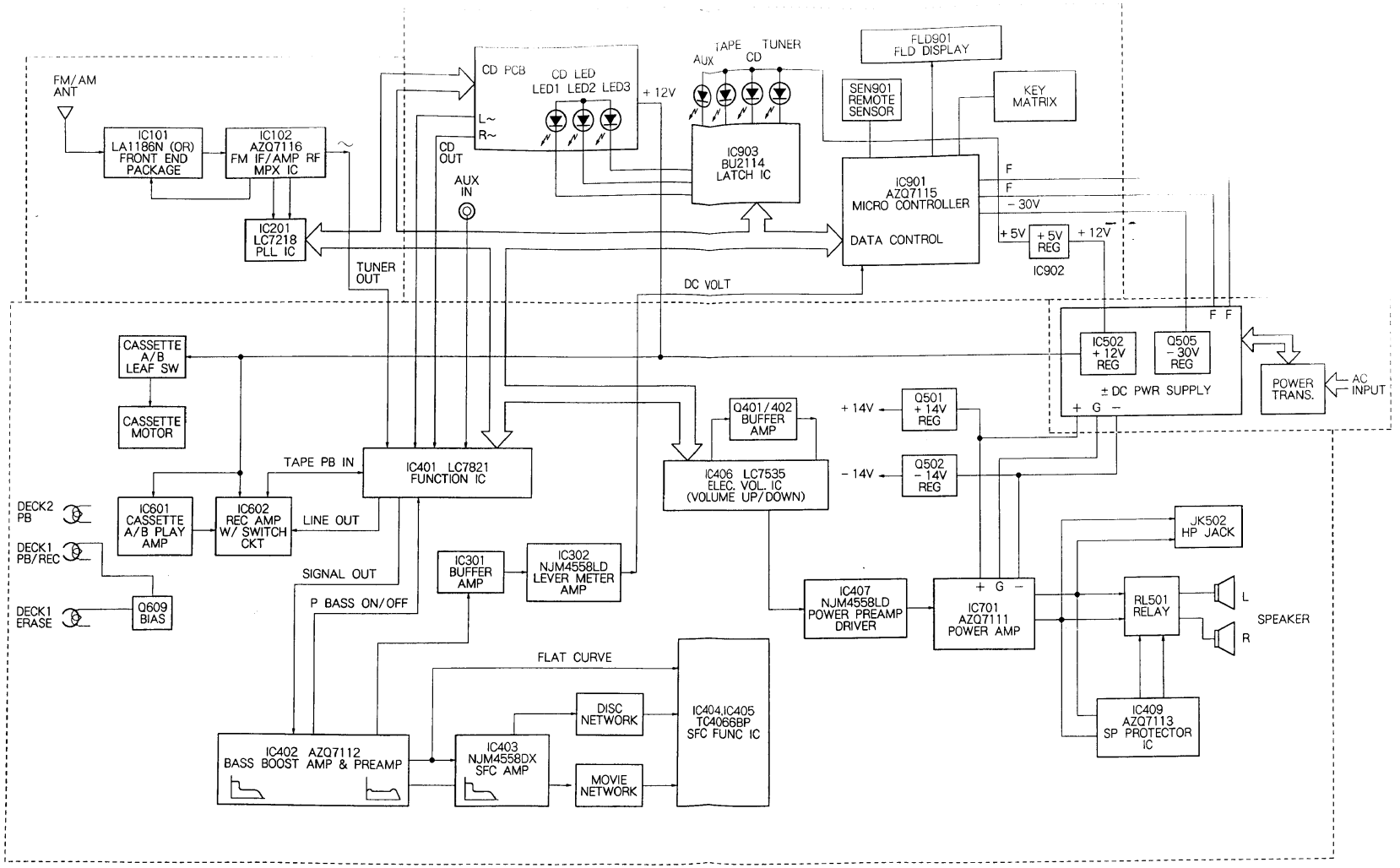
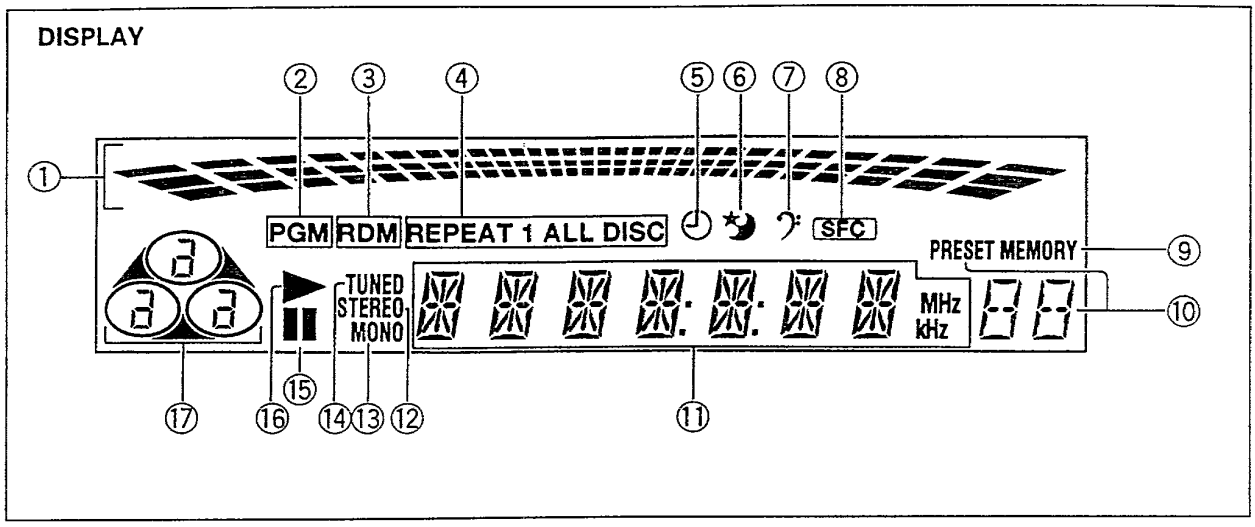


Fig. 5

9. BLOCK DIAGRAM





DISPLAY

① Multi meter
Provides a visual display of signal level, volume level or other operation conditions.

② PGM (PROGRAM) indicator
Lights during the program mode.

③ RDM (RANDOM) indicator
Lights during random playback mode.

④ REPEAT indicators

REPEAT 1:	Lights during "repeat-1" playback mode.
REPEAT DISC:	Lights when using repeat playback for a single disc.
REPEAT ALL DISC:	Lights during "repeat all discs" playback mode.

⑤ TIMER indicator
Lights when the timer is set.

⑥ SLEEP TIMER indicator
Lights when the sleep timer is set.

⑦ P. BASS indicator
Lights when the P. BASS function is ON.

⑧ SFC (Sound Field Control) indicator
Lights when the SFC function is ON.

⑨ MEMORY indicator
Lights when the memory button is pressed during the manual preset operation.

⑩ Preset number display
When manual preset operation is used, the preset station number is displayed here.

⑪ Displays broadcast reception frequencies and other main operating conditions.

⑫ STEREO indicator
Lights during reception of a stereo broadcast.

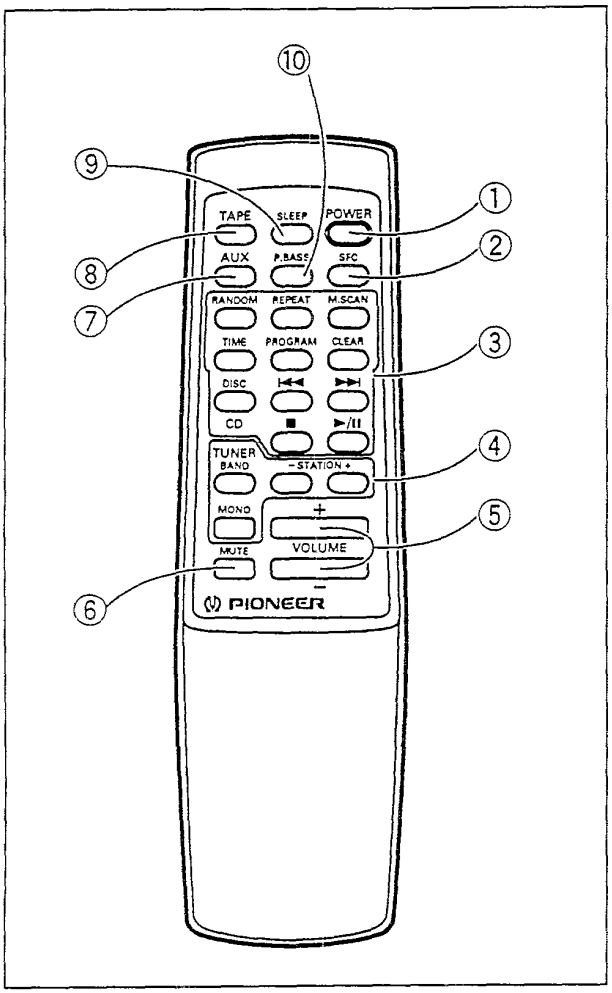
⑬ MONO indicator
Lights when receiving a broadcast program in monaural.

⑭ TUNED indicator
Lights to indicate reception of a broadcast frequency.

⑮ Pause indicator (II)
Lights during pause mode.

⑯ Play indicator (►)
Lights when playing a CD.

⑰ Disc tray number indicator
Lights when the function is set to CD. The currently playing disc number flashes.



REMOTE CONTROL UNIT

① POWER button

② SFC (Sound Field Control) button

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

HALL → MOVIE → DISCO → off → HALL

③ CD operation buttons

RANDOM:	Random playback
REPEAT:	Repeat playback
M.SCAN:	Music (Intro) Scan
TIME:	Select time display mode.
PROGRAM:	Set to track programming mode.
CLEAR:	Use to erase the track program.
DISC:	Disc No. selection
⏮:	Manual/Track search (reverse)
⏭:	Manual/Track search (forward)
■:	Stop
▶/⏸:	Play/Pause

Each time this button is pressed, the mode changes between playback and pause.

④ TUNER operation buttonsp

STATION –/+ (down/up) button

Before operation, memorize broadcast stations with the STATION CALL buttons.

+ ..... Stations change in order in the upward direction.

– ..... Stations change in order in the downward direction.

MONO button

During reception of FM stereo broadcasts, use to switch between stereo and monaural reception.

BAND button

Use to switch between FM and AM bands.

⑤ VOLUME –/+ button

Increases/decreases the sound volume of the unit.

⑥ MUTE button

Press to temporarily minimize sound volume. Press again (or use the VOLUME button) to restore sound to its original volume.

⑦ AUX function button

⑧ TAPE function button

⑨ SLEEP button

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

SLEEP 90 → SLEEP 60 → SLEEP 30 → SLEEP 0 → off → SLEEP 90

⑩ P. BASS button

11. SPECIFICATIONS

Amplifier section

<U.S. and Canadian models>

Continuous Average Power Output is 33 Watts* per channel, min., at 6 ohms from 80 Hertz to 15,000 Hertz with no more than 1 % total harmonic distortion.**

<U.K. model>

Continuous Power output (DIN)
..... 25 W+ 25 W (1 kHz, T.H.D. 1%, 6 Ω)
Continuous Power output (RMS)
..... 30 W+ 30 W (1 kHz, T.H.D. 10%, 6 Ω)

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

<Australian model>

Continuous Power output (DIN)
..... 25 W+ 25 W (1 kHz, T.H.D. 1%, 6 Ω)
Continuous Power output (RMS)
..... 30 W+ 30 W (1 kHz, T.H.D. 10%, 6 Ω)

FM/AM tuner section

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108.0 MHz
Antenna input ..... 75 Ω unblanced

AM (MW) Tuner Section

Frequency Range
With 9 kHz step ..... 522 kHz to 1,611 kHz
(U.K. and Australian models)
With 10 kHz step ..... 530 kHz to 1,720 kHz
(U.S. and Canadian models)
Antenna ..... Loop antenna

CD Section

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

Cassette deck section

Systems ..... 4 track, 2-channel stereo
Heads ..... Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor ..... DC servo motor x 1
Tape type ..... TYPE I (Normal) tape

Miscellaneous

Power Requirements
Australian model ..... AC 240 V, 50/60 Hz
U.S. and Canadian models ..... AC 120 V, 60 Hz
U.K. model ..... AC 230 V, 50/60 Hz
Power Consumption
Australian model ..... 180 W
U.S. and Canadian models ..... 130 W
U.K. model ..... 180 W
Dimensions ..... 280 (W) x 335 (H) x 345 (D) mm
11 (W) x 13-3/16 (H) x 13-9/16 (D) in
Weight (without package)
U.K. model ..... 8.4 kg
Australian model ..... 8.4 kg
U.S. and Canadian models ..... 8.4 kg (18 lb 8oz)

Accessories

Operating Instructions 1
Remote Control Unit 1
Dry Cell Batteries (AAA/R03) 2
FM Antenna 1
AM Loop Antenna 1

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