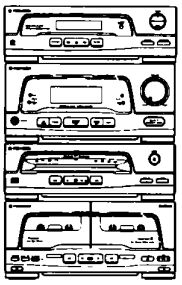
Service Manual

PIONEER
The Art of Entertainment



ORDER NO.
RRV1525

SEPARATE MINI COMPONENT SYSTEM

XS-P5500

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

Type	Model	Power Requirement	Remarks
	XS-P5500		
MYIXK	○	AC220–230V	
MYXK/EA	○	AC220–230V	
MYXK/EB	○	AC220–230V	
NVXK	○	AC230V	

● **XS-P5500 is a combination of the following components.**

STEREO AMPLIFIER : A-P5500
STEREO TUNER : F-P5500RDS
COMPACT DISC PLAYER : PD-P5500
STEREO DOUBLE CASSETTE DECK : CT-P5500WR

● **This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.**

CONTENTS

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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.

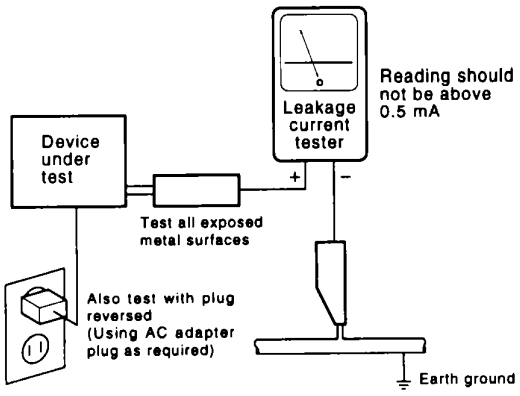
(FOR USA MODEL ONLY)

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 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.

(FOR EUROPEAN MODEL ONLY)

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

ADVERSEL:
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE FOR STRÅLING.

VARNING !
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

LASER
Kuva 1
Lasersateilyn varoitusmerkki

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.

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

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780 – 785 nm

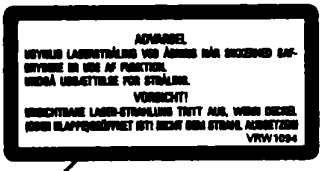
LASER
Picture 1
Warning sign for laser radiation

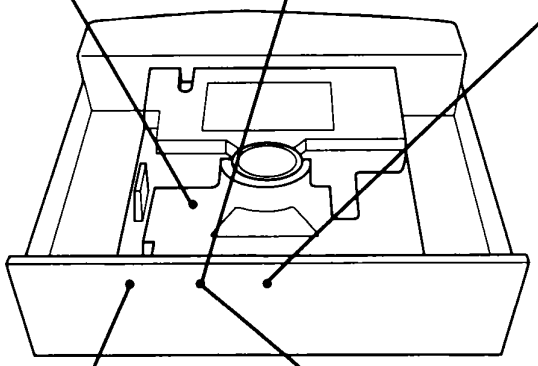
LABEL CHECK (PD-P5500)

MYXK/EA, MYXK/EB, NVXK and MYIXK types

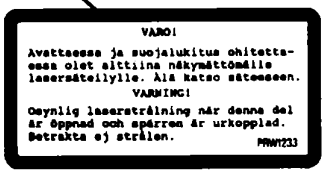
NVXK type

MYXK/EA, MYXK/EB and MYIXK types





MYXK/EA, MYXK/EB, NVXK and MYIXK types



MYXK/EA, MYXK/EB and MYIXK types

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S601) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not on $\overline{\text{CLMP}}$ terminal side ($\overline{\text{CLMP}}$ signal is OFF or high level.). Thus, the interlock will no longer function if the switch (S601) is deliberately set to $\overline{\text{CLMP}}$ 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.

'92S1B

* *Refer to page 60 .*

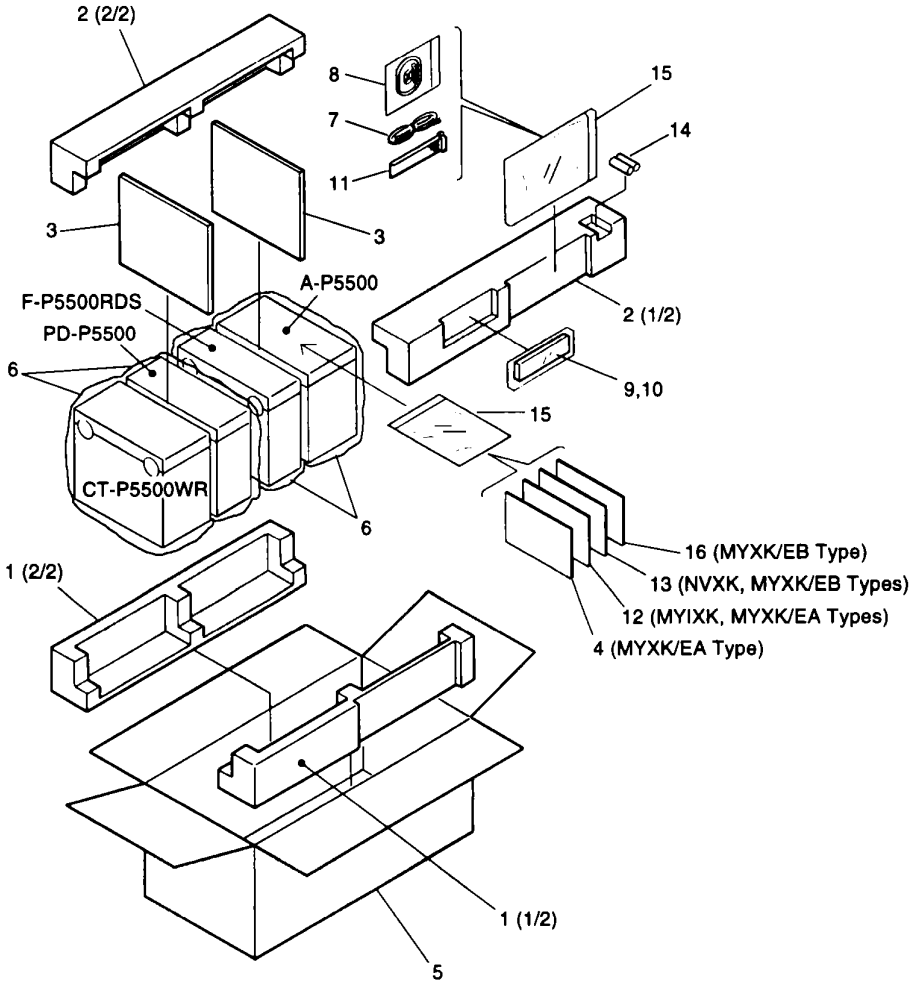
2. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES :

- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ 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.*

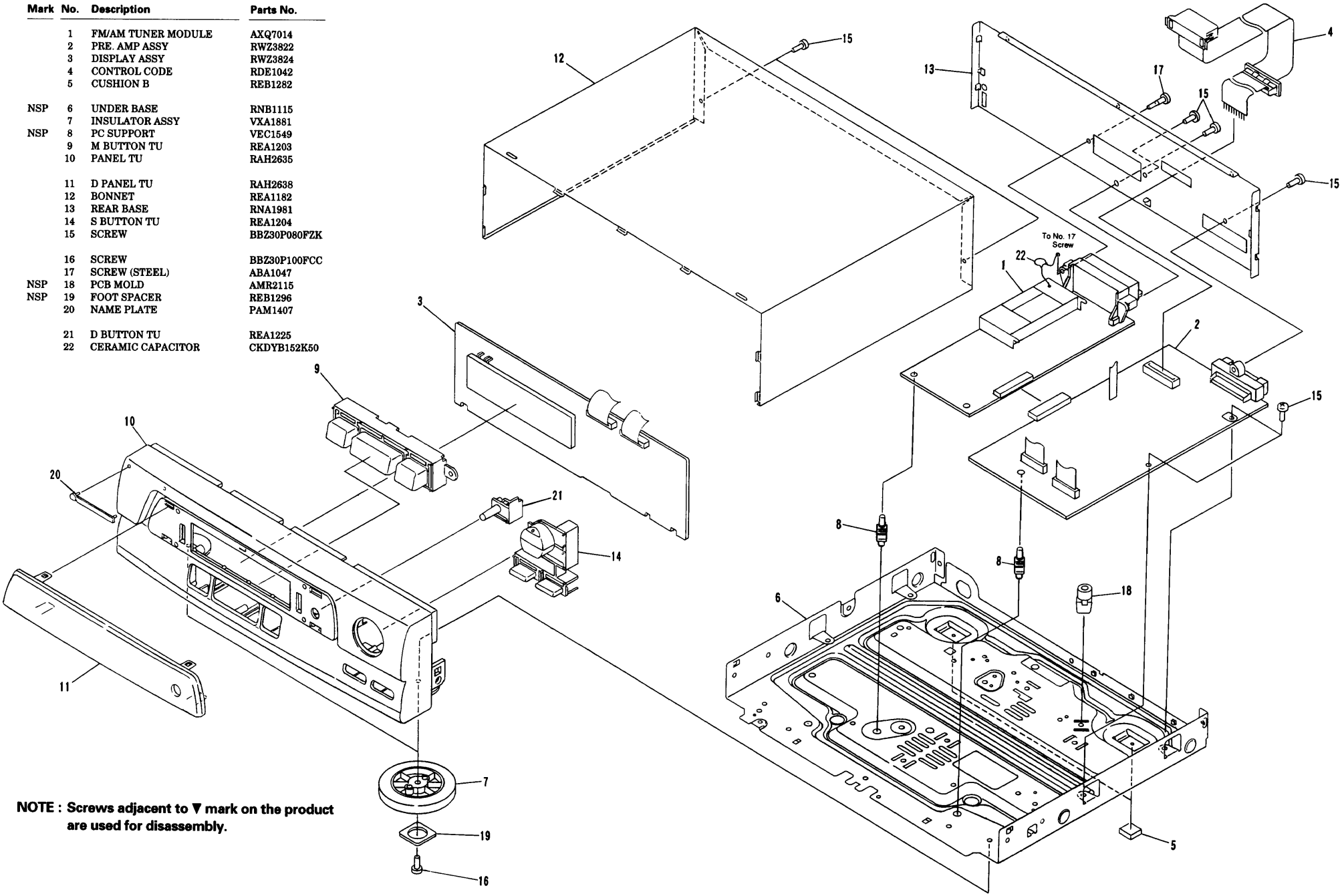
2.1 PACKING

Mark	No.	Description	Parts No.
	1	PAD B	RHA1190
	2	PAD T	RHA1191
	3	SPACER	RHG1713
	4	OPERATING INSTRUCTIONS (French/Dutch) (MYXK/EA type)	RRD1172
	5	MASTER CARTON	RHG1731
	6	SEAT (550×550×0.5)	Z23-026
	7	FM ANTENNA ASSY	ADH1019
	8	LOOP ANTENNA	ATB7002
	9	REMOTE CONTROL UNIT (CU-XR015)	AXD7030
	10	BATTERY COVER	AZA7050
	11	CONTROL CODE	RDE1041
	12	OPERATING INSTRUCTIONS (German/Italian) (MYIXK, MYXK/EA types)	RRD1171
	13	OPERATING INSTRUCTIONS (English) (NVXK, MYXK/EB types)	RRB1164
NSP	14	BATTERY (R03, AAA)	VEM-022
	15	POLYETHYLENE BAG (0.03×230×340)	Z21-038
	16	OPERATING INSTRUCTIONS (French/Swedish/Spanish/Portuguese) (MYXK/EB type)	RRD1173



2.2 STEREO TUNER (F-P5500RDS)

Mark	No.	Description	Parts No.
	1	FM/AM TUNER MODULE	AXQ7014
	2	PRE. AMP ASSY	RWZ3822
	3	DISPLAY ASSY	RWZ3824
	4	CONTROL CODE	RDE1042
	5	CUSHION B	REB1282
NSP	6	UNDER BASE	RNB1115
	7	INSULATOR ASSY	VXA1881
NSP	8	PC SUPPORT	VEC1549
	9	M BUTTON TU	REA1203
	10	PANEL TU	RAH2635
	11	D PANEL TU	RAH2638
	12	BONNET	REA1182
	13	REAR BASE	RNA1981
	14	S BUTTON TU	REA1204
	15	SCREW	BBZ30P080FZK
	16	SCREW	BBZ30P100FCC
	17	SCREW (STEEL)	ABA1047
NSP	18	PCB MOLD	AMR2115
NSP	19	FOOT SPACER	REB1296
	20	NAME PLATE	PAM1407
	21	D BUTTON TU	REA1225
	22	CERAMIC CAPACITOR	CKDYB152K50

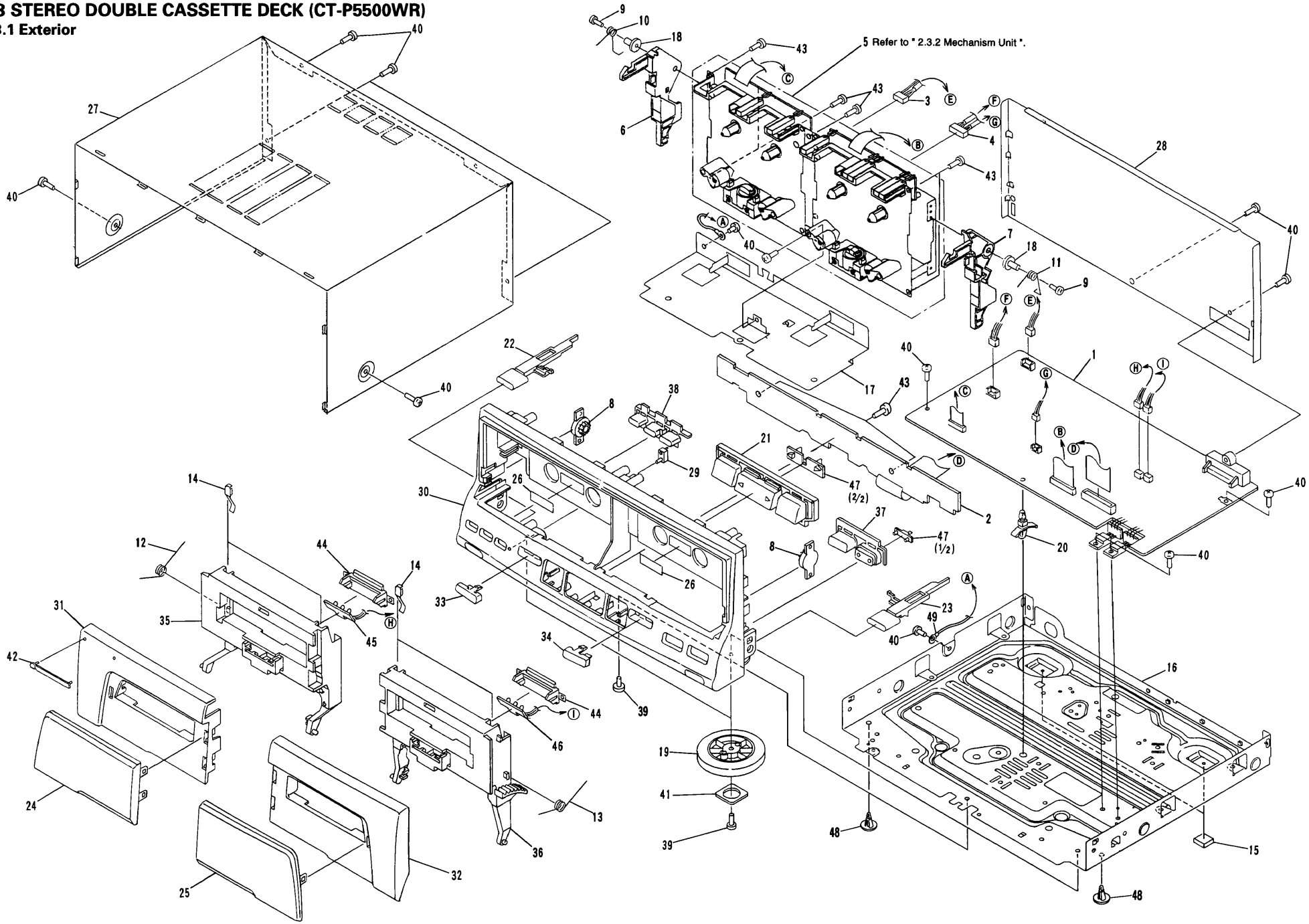


NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.

XS-P5500

2.3 STEREO DOUBLE CASSETTE DECK (CT-P5500WR)

2.3.1 Exterior



Mark	No.	Description	Parts No.
	1	TC. MAIN ASSY	RWZ3828
NSP	2	TC. FUNC ASSY	RWZ3830
	3	CONNECTOR 3P	RKP1716
	4	CONNECTOR 5P	RKP1715
	5	MECHANISM UNIT	RYM1248
	6	EJECT ARM (L)	AMR7024
	7	EJECT ARM (R)	AMR7025
	8	DAMPER ASSY	AXA7021
	9	SCREW	BSZ20P120FMC
	10	SPRING (L)	ABH7028
	11	SPRING (R)	ABH7029
	12	DOOR SPRING (L)	RBH1432
	13	DOOR SPRING (R)	RBH1433
	14	SPRING	RBK1004
	15	CUSHION B	REB1282
NSP	16	UNDER BASE	RNB1115
NSP	17	SHIELD PLATE	RNE1875
	18	COLLAR	RNK2135
	19	INSULATOR ASSY	VXA1881
NSP	20	PC SUPPORT	VEC1549
	21	M BUTTON TC	REA1211
	22	EJECT KNOB L	RAC2032
	23	EJECT KNOB R	RAC2033
	24	D. LENS L	RAH2640
	25	D. LENS R	RAH2641
	26	INDICATOR	REE1019
	27	BONNET	REA1181
	28	REAR BASE	RNA1984
	29	LED LENS	RNK2128
NSP	30	PANEL TC	RAH2709
	31	P. PANEL L	REA1226
	32	P. PANEL R	REA1227
	33	AZIMUTH COVER L	REA1229
	34	AZIMUTH COVER R	REA1228
	35	POCKET L	RNK2190
	36	POCKET R	RNK2191
	37	1 · 2 BUTTON TC	REA1212
	38	R BUTTON TC	REA1213
	39	SCREW	BBZ30P100FCC
	40	SCREW	BBZ30P080FZK
NSP	41	FOOT SPACER	REB1296
	42	NAME PLATE	PAM1407
	43	SCREW	BPZ30P080FMC
	44	SPOT LENS	RNK1847
NSP	45	TC HALF1 ASSY	RWZ3836
NSP	46	TC HALF2 ASSY	RWZ3838
	47	PLAY LENS	RNK2158
	48	HOLDER	AEC1534
NSP	49	LEAD WIRE (EARTH)	DE007VE0

2.3.2 Mechanism Unit

■ Mechanism unit I and II (1/2)

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

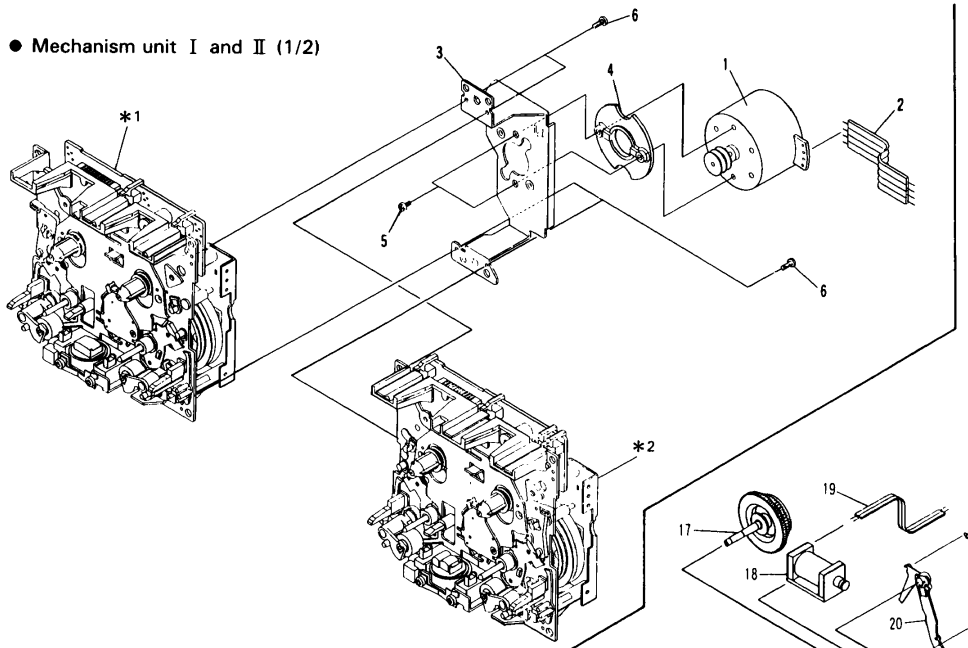
■ Mechanism unit I and II (2/2)

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

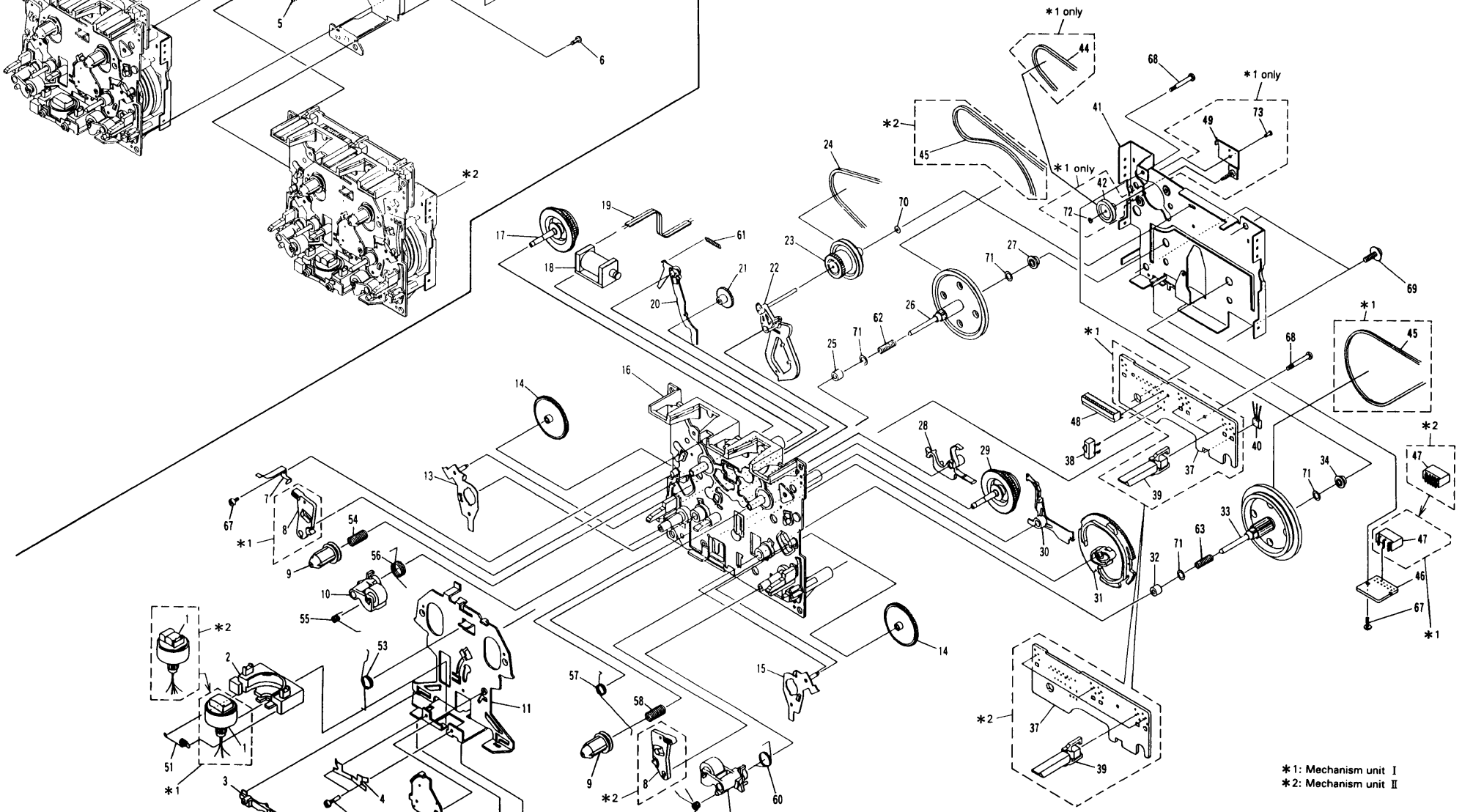
Mark	No.	Description	Parts No.
	41	BRACKET FW (*1)	RNE1854
	41	BRACKET FW (*2)	RNE1438
	42	PULLEY (*1 only)	RNK2132
	43	.....	
	44	BELT FW (*1 only)	REB1291
	45	BELT MAIN (* 1)	REB1290
	45	BELT MAIN (* 2)	REB1289
	46	P. C. BOARD	RNP1348
	47	HOUSING (*1)	RKP1396
	47	HOUSING (*2)	RKP1397
	48	CONNECTOR (*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 I and II (1/2)



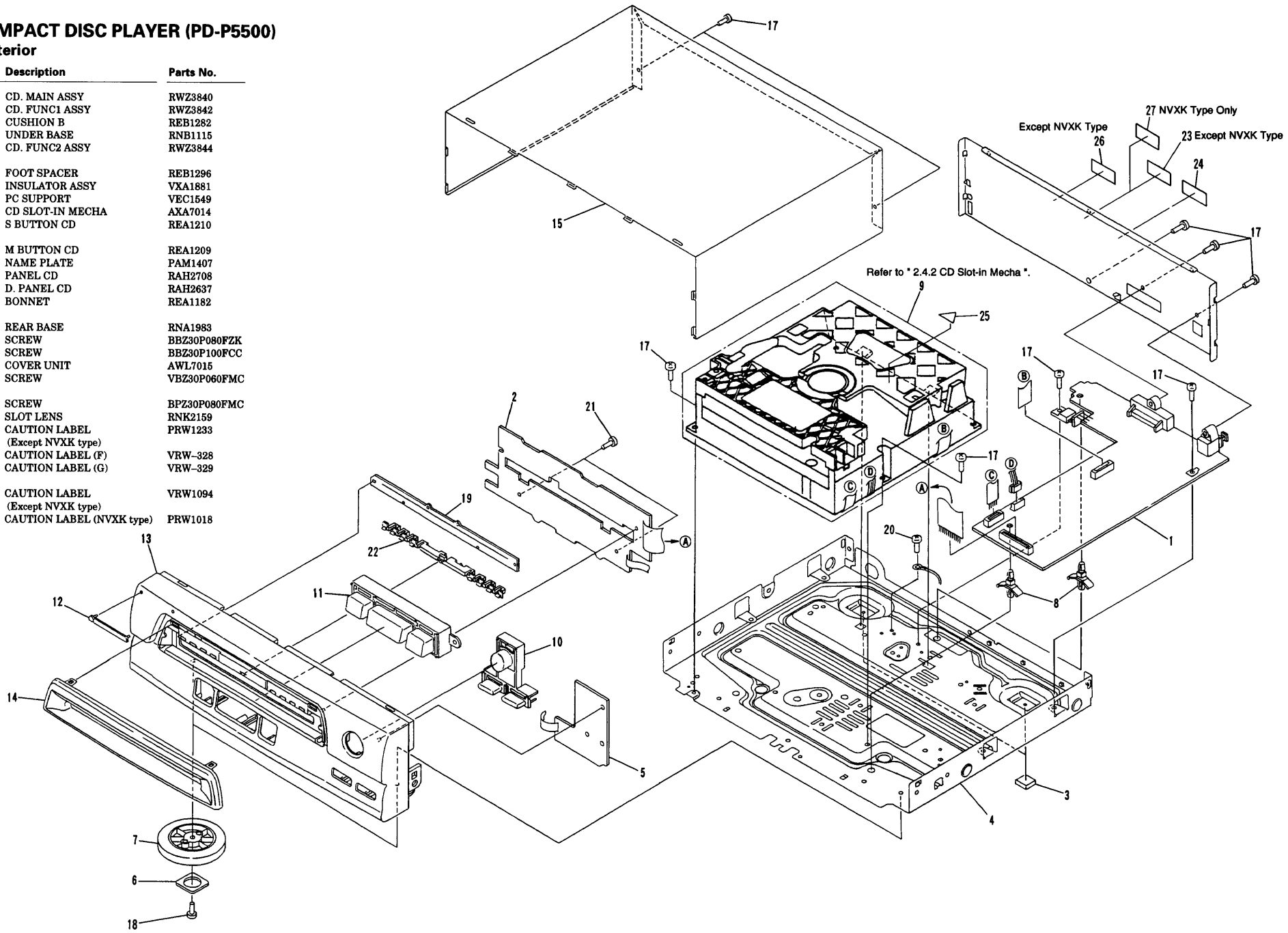
● Mechanism unit I and II (2/2)



2.4 COMPACT DISC PLAYER (PD-P5500)

2.4.1 Exterior

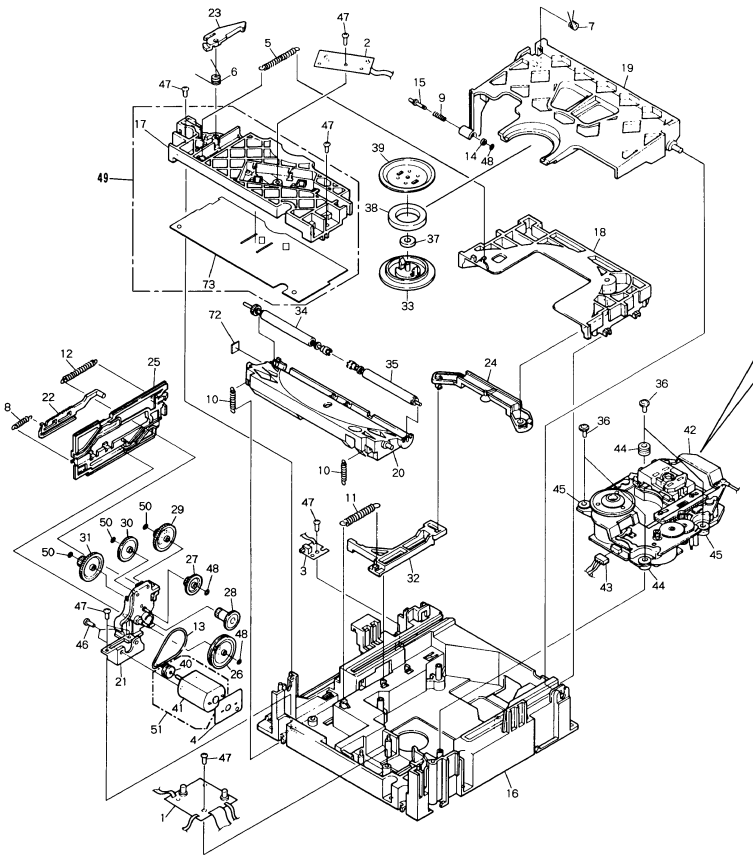
Mark	No.	Description	Parts No.
	1	CD. MAIN ASSY	RWZ3840
NSP	2	CD. FUNC1 ASSY	RWZ3842
	3	CUSHION B	REB1282
NSP	4	UNDER BASE	RNB1115
NSP	5	CD. FUNC2 ASSY	RWZ3844
NSP	6	FOOT SPACER	REB1296
	7	INSULATOR ASSY	VXA1881
NSP	8	PC SUPPORT	VEC1549
NSP	9	CD SLOT-IN MECHA	AXA7014
	10	S BUTTON CD	REA1210
	11	M BUTTON CD	REA1209
	12	NAME PLATE	PAM1407
	13	PANEL CD	RAH2708
	14	D. PANEL CD	RAH2637
	15	BONNET	REA1182
	16	REAR BASE	RNA1983
	17	SCREW	BBZ30P080FZK
	18	SCREW	BBZ30P100FCC
	19	COVER UNIT	AWL7015
	20	SCREW	VBZ30P060FMC
	21	SCREW	BPZ30P080FMC
	22	SLOT LENS	RNK2159
	23	CAUTION LABEL (Except NVXK type)	PRW1233
NSP	24	CAUTION LABEL (F)	VRW-328
	25	CAUTION LABEL (G)	VRW-329
	26	CAUTION LABEL (Except NVXK type)	VRW1094
	27	CAUTION LABEL (NVXK type)	PRW1018



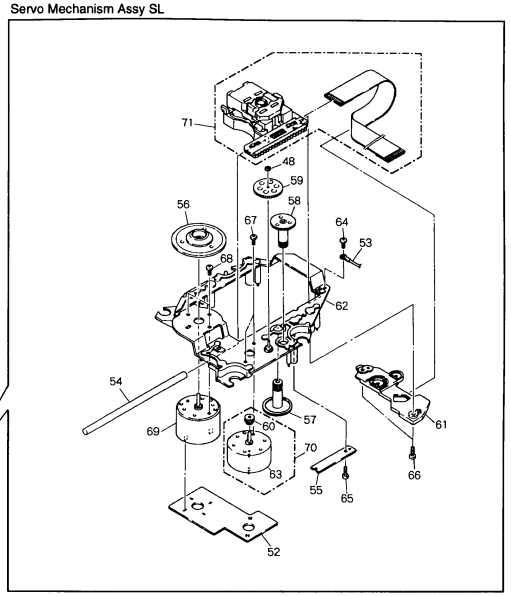
2.4.2 CD Slot-in Mecha

Mark	No.	Description	Parts No.
NSP	1	SENSOR PCB ASSY	AWZ7328
NSP	2	LED PCB ASSY	AWZ7329
NSP	3	SW PCB ASSY	AWZ7330
NSP	4	MOTOR PCB ASSY	AWZ7331
	5	SPRING	ABH7035
	6	ROCK LEVER SPRING	ABH7019
	7	SLAMP SPRING	ABH7020
	8	RACK SPRING	ABH7021
	9	P SPRING	ABH7022
	10	ROLLER HOLDER SPRING	ABH7023
	11	SPRING B	ABH7024
	12	CAM PLATE SPRING	ABH7025
	13	BELT A	AEB7012
	14	WASHER	AEB7018
	15	PIN	ALA7005
	16	MECHANISM BASE	ANW7022
	17	DISC PLATE	ANW7023
	18	CENTERING PLATE	ANW7024
	19	CLAMPER HOLDER	ANW7025
	20	ROLLER HOLDER	ANW7078
	21	GEAR HOLDER	ANW7027
	22	RACK	ANW7028
	23	ROCK LEVER	ANW7029
	24	STARTING LEVER	ANW7030
	25	CAM PLATE	ANW7031
	26	GEAR PULLEY	ANW7032
	27	GEAR A	ANW7033
	28	GEAR B	ANW7034
	29	GEAR C	ANW7035
	30	GEAR D	ANW7036
	31	DRIVE GEAR	ANW7037
	32	STARTING PLATE	ANW7038
	33	CLAMPER	ANW7083
	34	ROLLER ASSY L	AXA7019
	35	ROLLER ASSY R	AXA7020
	36	SCREW	PBA1048
NSP	37	H SPACER	PEB1249
	38	CLAMP MAGNET	PMF1014
	39	YOKE	PNB1216
	40	MOTOR PULLEY	PNW1634
NSP	41	MOTOR	PXM1002
NSP	42	SERVO MECHA ASSY SL	AXA7017
	43	CONNECTOR ASSY 4P	PDE1238
	44	FLOAT RUBBER	PEB1014
	45	FLOAT RUBBER	PEB1132
	46	SCREW	BMZ20P040FMC
	47	SCREW	PPZ30P060FMC
	48	WASHER	WT12D032D025
	49	DISC PLATE ASSY	AEA7003
	50	WASHER	WT17D034D025

Mark	No.	Description	Parts No.
	51	MOTOR ASSY	AEA7000
	52	MECHANISM BOARD ASSY	PWX1192
	53	GROUND LEAD UNIT	PDF1104
	54	GUIDE BAR	PLA1094
	55	GEAR STOPPER	PNB1303
	56	DISC TABLE	PNW1608
	57	GEAR 1	PNW2052
	58	GEAR 2	PNW2053
	59	GEAR 3	PNW2054
	60	PINION GEAR	PNW2055
	61	PWB HOLDER	PNW2057
	62	CARRIAGE BASE	PNW2445
NSP	63	DC MOTOR (CARRIAGE)	PXM1027
	64	SCREW	BBZ26P060FMC
	65	SCREW	BPZ20P060FMC
	66	SCREW	BPZ26P100FMC
	67	SCREW	JFZ17P025FZK
	68	SCREW	JFZ20P030FNI
	69	DC MOTOR ASSY (SPINDLE)	PEA1235
	70	DC MOTOR ASSY (CARRIAGE)	PEA1246
	71	PICKUP ASSY	PEA1291
	72	AV SHEET	AEB7021
NSP	73	DISC PLATE SHEET	AEB7035
		OIL (GREEN)	GEM1015



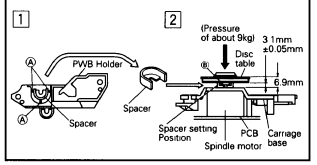
Servo Mechanism Assy SL



● How to install the disc table

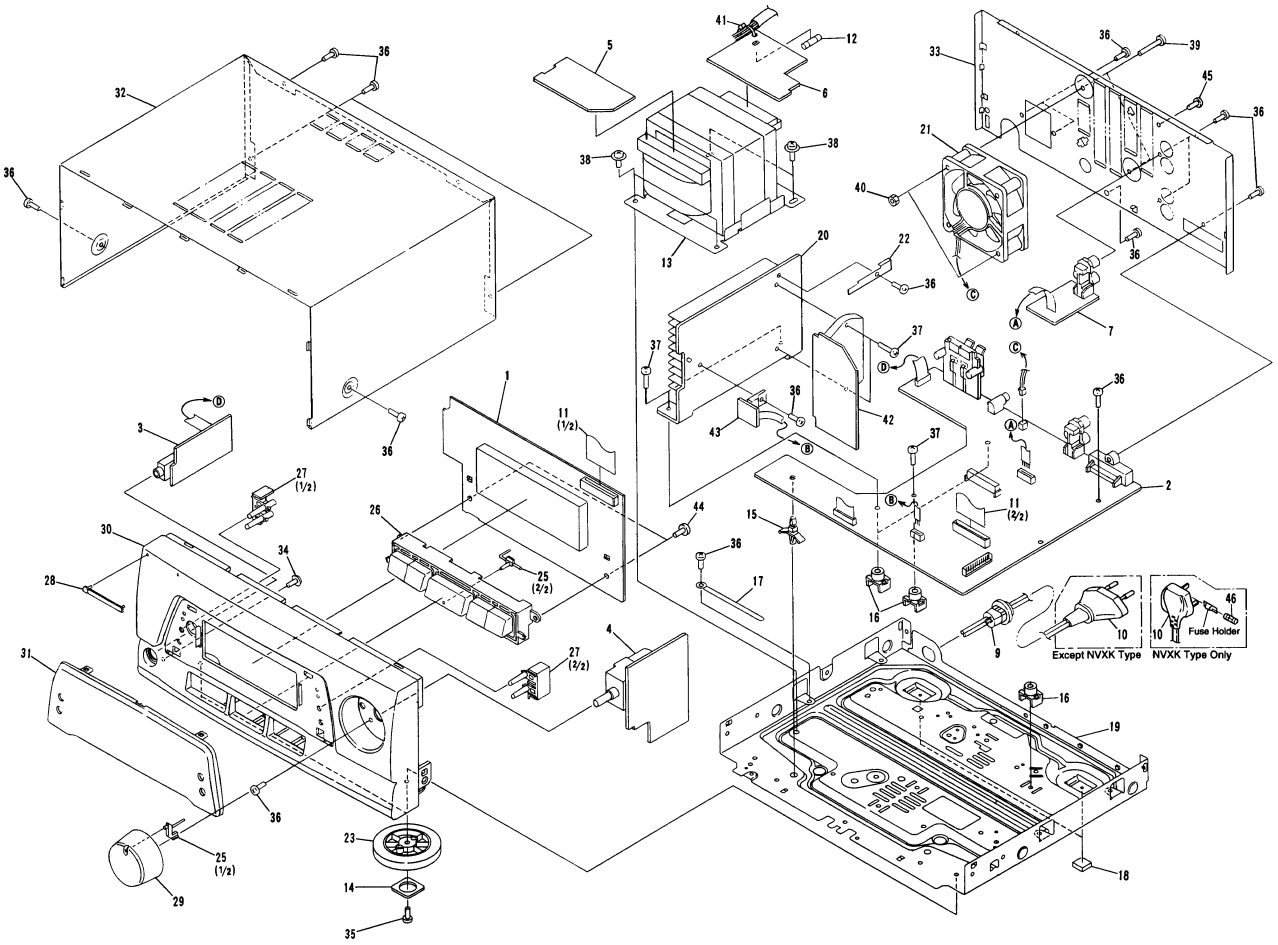
[1] Use nipper or other tool to cut the three sections marked Ⓐ figure [1]. Then remove the spacer.

[2] While supporting the spindle motor shaft with the stopper, put spacer on top of the motor base (angled so it doesn't touch section Ⓑ), and stick the disc table on top (takes about 9kg pressure). Take off the spacer.



2.5 STEREO AMPLIFIER (A-P5500)

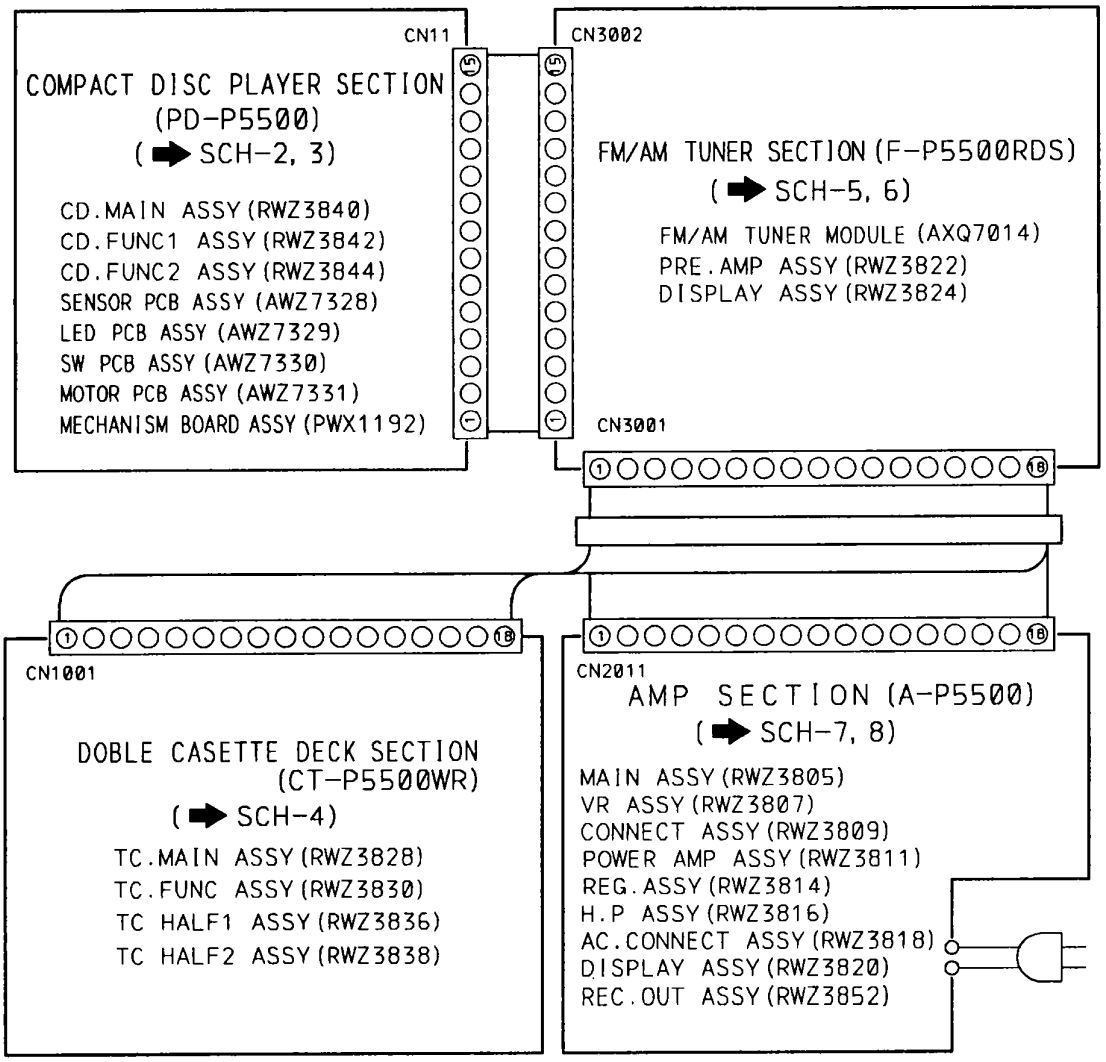
Mark	No.	Description	Parts No.
	1	DISPLAY ASSY	RWZ3820
	2	MAIN ASSY	RWZ3805
NSP	3	H. P ASSY	RWZ3816
	4	VR ASSY	RWZ3807
	5	CONNECT ASSY	RWZ3809
NSP	6	AC CONNECT ASSY	RWZ3818
	7	REC. OUT ASSY	RWZ3852
	8	.....	
	9	STRAIN RELIEF	CM-22B
⚠	10	AC POWER CORD (Except NVXK type)	ADG1138
⚠	10	AC POWER CORD (NVXK type)	PDG1055
	11	25P F·F·C/30V	RDD1333
⚠	12	FUSE (T1.25A, FU2001)	AEK1055
⚠	13	POWER TRANSFORMER (T1)	RTT1306
NSP	14	FOOT SPACER	REB1296
NSP	15	PC SUPPORT	VEC1549
NSP	16	PCB MOLD	AMR2115
NSP	17	CORD STOPPER	DNF1128
	18	CUSHION B	REB1282
NSP	19	UNDER BASE	RNB1115
NSP	20	HEAT SINK	RNE1862
	21	DC FAN MOTOR	AXM7003
	22	SPRING	RBK1071
	23	INSULATOR ASSY	VXA1881
	24	.....	
	25	STA. LENS	AAK7118
	26	BUTTON AM	RAC2031
	27	TIMER BUTTON	RAC2107
	28	NAME PLATE	PAM1407
	29	VR KNOB	RNK2160
	30	PANEL AM	RAH2636
	31	D. PANEL AM	RAH2710
	32	BONNET	REA1181
	33	REAR BASE (Except NVXK type)	RNA1982
	33	REAR BASE (NVXK type)	RNA1985
	34	SCREW (WITH WASHER)	ABA1006
	35	SCREW	BBZ30P100FCC
	36	SCREW	BBZ30P080PZK
	37	SCREW	BBZ30P160FMC
	38	SCREW	ASZ40P060FMC
	39	SCREW	BMZ40P300FZK
	40	NUT	NB40FMC
	41	BINDER	ZCA-SKB90BK
	42	POWER AMP ASSY	RWZ3811
	43	REG. ASSY	RWZ3814
	44	SCREW	BPZ30P080FMC
	45	SCREW	BSZ30P080FZK
⚠	46	FUSE (T5A) (NVXK type only)	REK1003



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

3.1 OVERALL SCHEMATIC DIAGRAM

SCH-1



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):

F-P5500RDS
DISPLAY ASSY

S3301	AM
S3302	FM
S3303	STATION
S3304	FUNCTION
S3305	DISPLAY/RDS
S3306	STEREO/MONO
S3307	DOWN
S3308	UP
S3309	STATION MEMORY

A-P5500
DISPLAY ASSY

S2501	+ UP
S2502	– DOWN (DEMO)
S2503	SLEEP
S2504	ST. WIDE
S2505	POWER STANDBY/ON
S2506	P. BASS
S2507	SFC MODE
S2508	TIMER REC
S2509	WAKE-UP

PD-P5500
CD. FUNC1 ASSY

S502	▶▶|
S503	|◀◀
S505	▶ PLAY
S506	■ STOP

CD. FUNC2 ASSY

S501	⏏ EJECT
S504	RANDOM
S507	PGM/EDIT

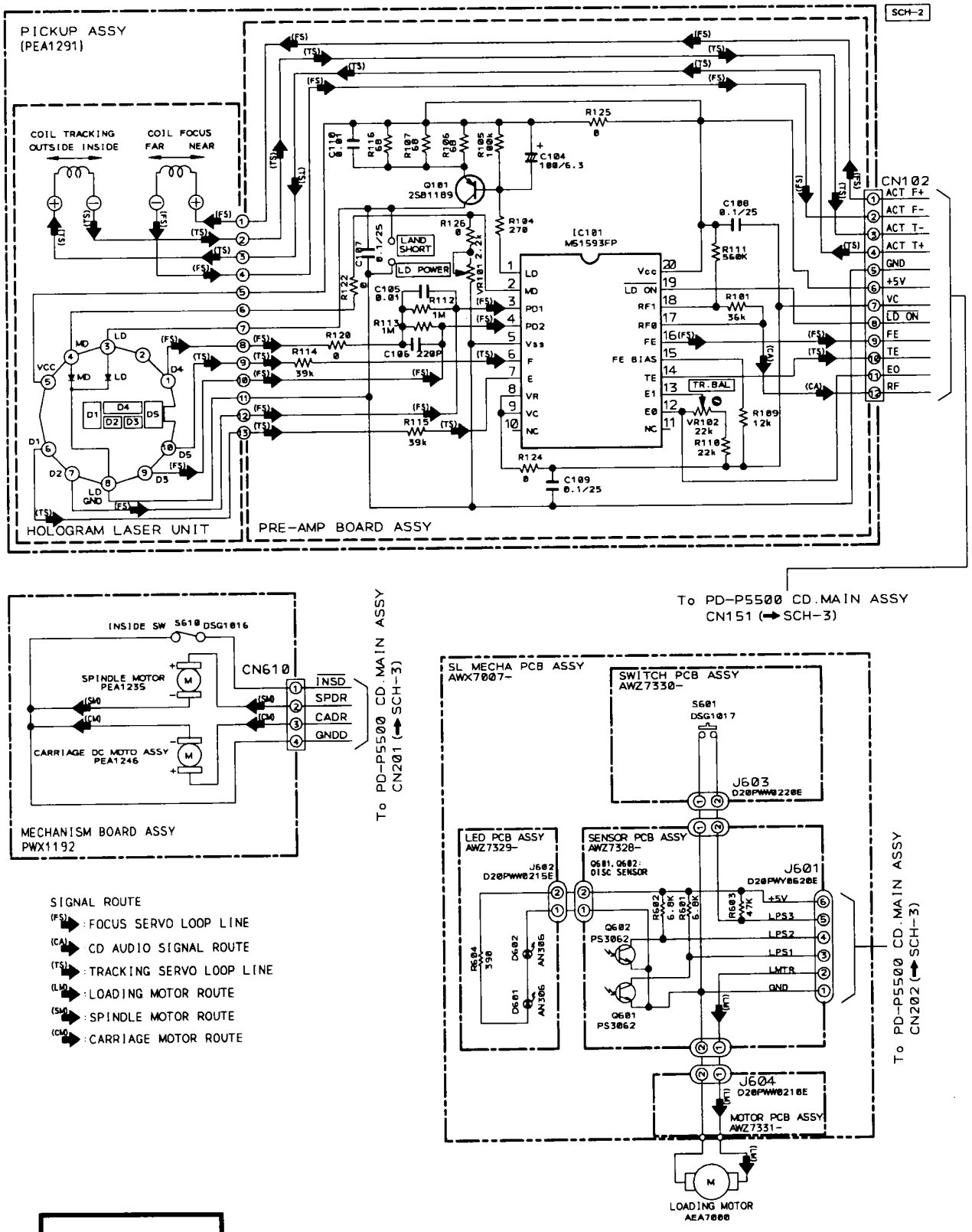
CT-P5500WR
TC. FUNC ASSY

S1901	DOLBY NR ON/OFF
S1902	ASES/COPY
S1903	REC/PAUSE
S1904	◀◀ REW
S1905	▶▶ FF
S1906	◀ REV
S1907	▶ FWD
S1908	DECK I/II SELECTOR
S1909	■ STOP

OVERALL SCHEMATIC DIAGRAM **SCH-1**

3.2 COMPACT DISC PLAYER (PD-P5500)

■ SENSOR PCB Assy, LED PCB Assy, SW PCB Assy, MOTOR PCB Assy, MECHANISM BOARD Assy and PICKUP Assy



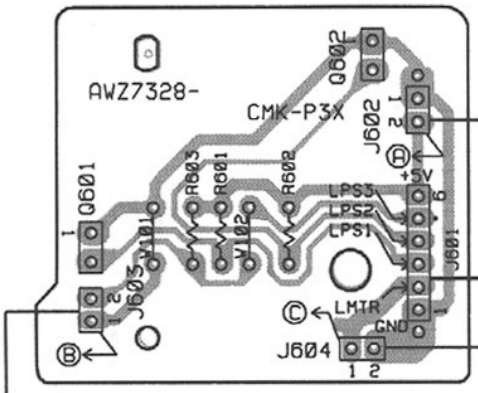
SIGNAL ROUTE

- (FS) : FOCUS SERVO LOOP LINE
- (CA) : CD AUDIO SIGNAL ROUTE
- (TS) : TRACKING SERVO LOOP LINE
- (LM) : LOADING MOTOR ROUTE
- (SM) : SPINDLE MOTOR ROUTE
- (CM) : CARRIAGE MOTOR ROUTE

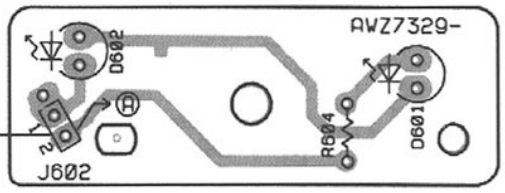
SCH-2 SENSOR PCB Assy, LED PCB Assy, SW PCB Assy, MOTOR PCB Assy, MECHANISM BOARD Assy, PICKUP Assy (PD-P5500)

PCB-1

SENSOR PCB ASSY



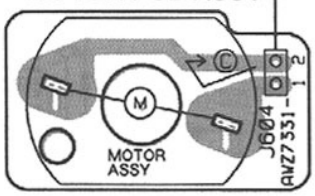
LED PCB ASSY



To PD- P5500 CD. MAIN ASSY CN202

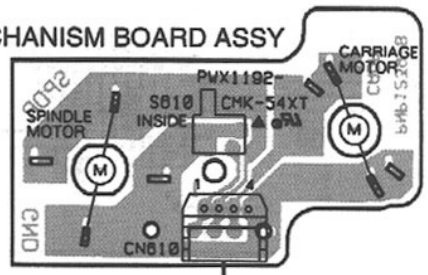
SW PCB ASSY

MOTOR PCB ASSY



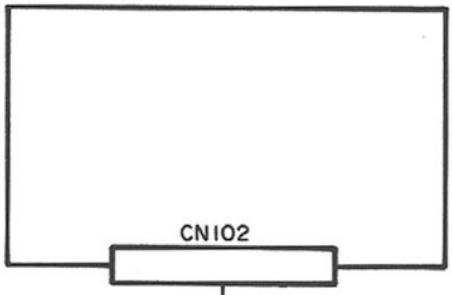
- This diagram is viewed from the mounted parts side.

MECHANISM BOARD ASSY



To PD- P5500 CD. MAIN ASSY CN201

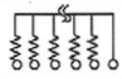
PICKUP ASSY



To PD- P5500 CD. MAIN ASSY CN151

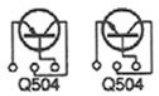
NOTE FOR PCB DIAGRAMS:

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

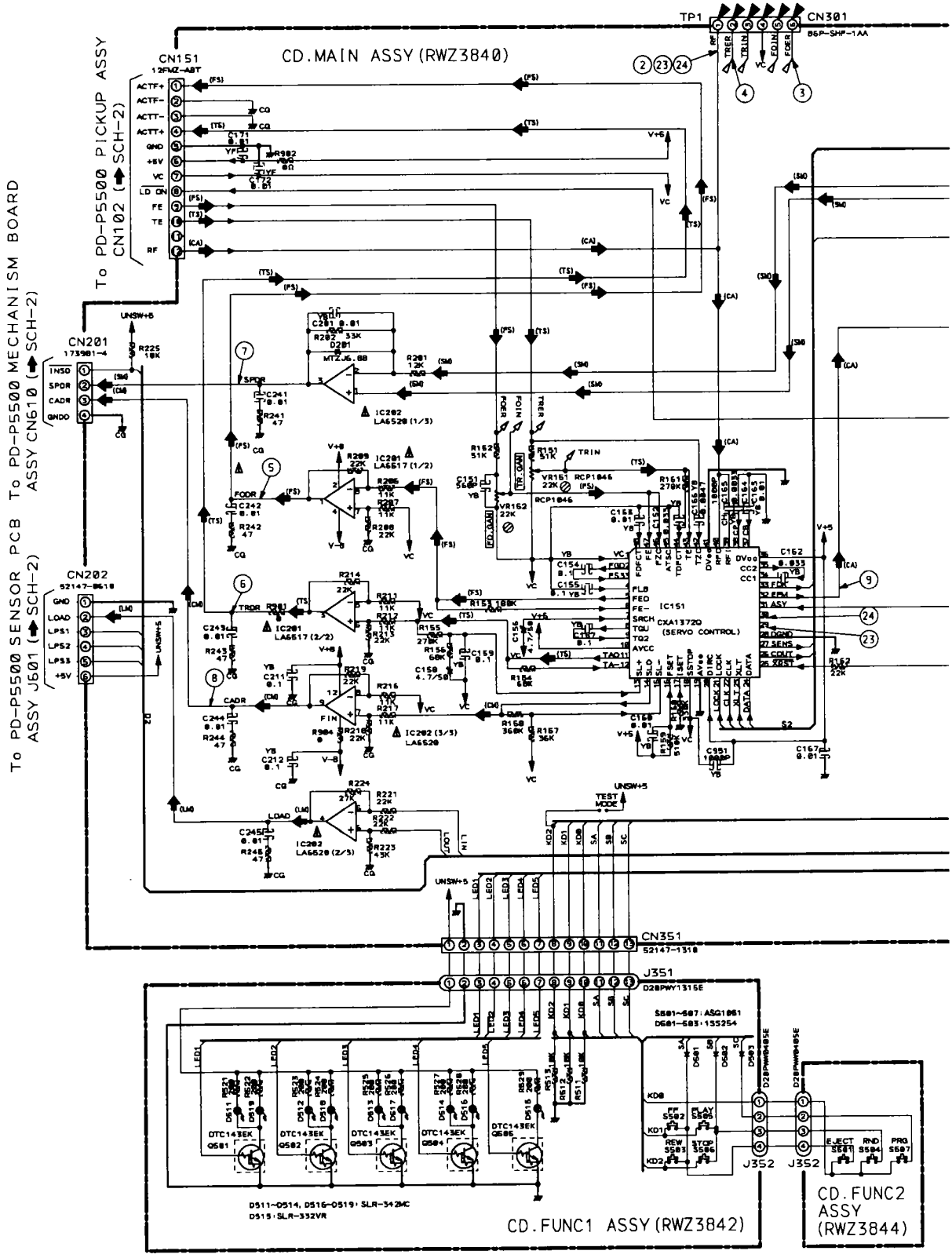
NOTE FOR PCB DIAGRAMS:

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.

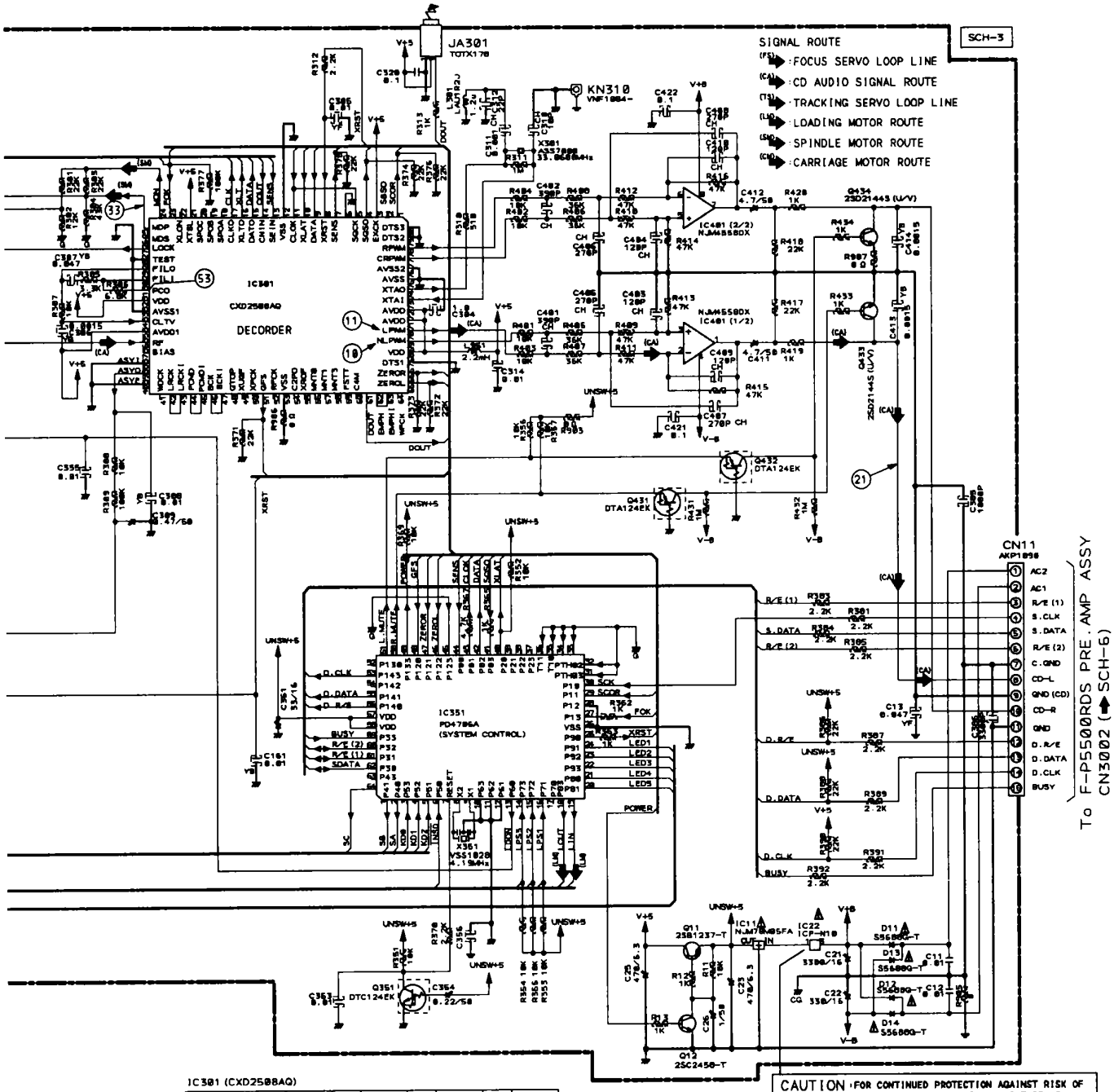
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

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.

■ CD. MAIN ASSY, CD. FUNC1 ASSY and CD. FUNC2 ASSY



SCH-3 CD. MAIN ASSY, CD. FUNC1 ASSY, CD. FUNC2 ASSY (PD-P5500)



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N18 MFD BY ROHM CO., LTD. FOR IC22.

IC301 (CXD2588AQ)

PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]
1	0.1	17	4.9	33	0	49	4.9	65	0
2	0.1	18	0	34	2.8	50	1.6	66	0
3	5.0	19	0	35	5.0	51	4.9	67	0
4	0.1	20	0	36	2.7	52	2.4	68	4.9
5	5.0	21	4.9	37	0	53	0	69	2.5
6	0	22	0	38	0	54	0	70	2.5
7	2.2~2.6	23	5.0	39	2.5	55	4.9	71	4.9
8	5.0	24	5.0	40	4.9	56	4.4	72	4.9
9	4.9	25	2.3~2.4	41	2.4	57	0	73	2.5
10	5.0	26	0.1	42	2.4	58	0	74	2.5
11	4.9	27	5.0	43	2.4	59	3.2	75	0
12	0	28	0	44	2.4	60	1.7	76	0
13	4.9	29	2.6	45	2.4	61	2.2	77	2.4
14	0.1	30	2.6	46	2.8	62	0	78	2.4
15	4.9	31	2.6	47	2.8	63	0	79	0
16	4.9	32	5.0	48	0	64	2.4	80	0

IC151 (CXA1372Q)

PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]
1	2.5	13	2.5	25	5.0	37	1.0
2	2.5	14	2.5	26	0.1	38	2.0
3	2.5	15	2.5	27	4.9	39	2.5
4	2.5	16	0.0	28	0	40	3.3
5	2.0	17	1.3	29	0	41	0
6	2.5	18	2.5	30	0	42	2.5
7	2.6	19	0	31	0	43	2.5
8	2.6	20	5.0	32	2.5	44	2.6
9	2.5	21	5.0	33	5.0	45	2.6
10	5.0	22	4.9	34	1.0	46	2.5
11	2.6	23	5.0	35	0.9	47	2.6
12	2.6	24	4.9	36	5.0	48	2.5

CD. MAIN ASSY, CD. FUNC1 ASSY,
CD. FUNC2 ASSY (PD-P5500)

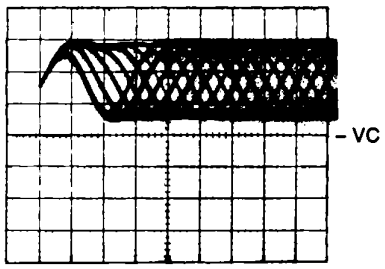
SCH-3

Waveforms (CD. MAIN Assy)

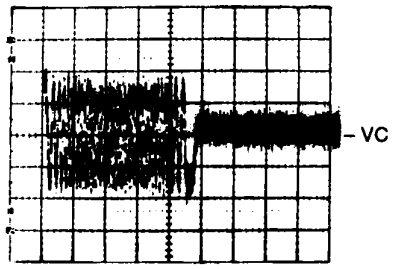
Note: The encircled numbers denote measuring point in the schematic diagram.

*1 50T-JUMP: After switching to the pause mode, press the manual search key.
*2 FOCUS-IN: Press the play key without loading a disc.

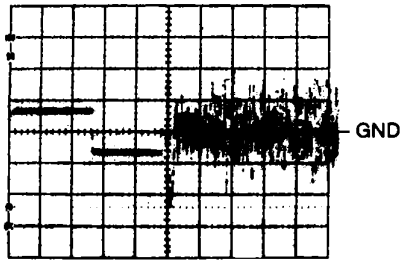
② TP1-Pin 1: PLAY MODE (RF)
500mV/div 500nsec/div



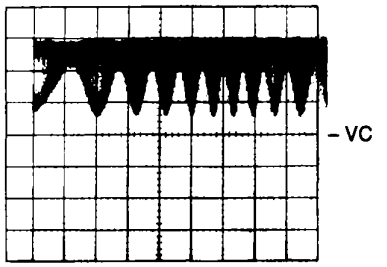
④ TP1-Pin 2: 50T-JUMP (*1) MODE (TRER)
1V/div 1msec/div



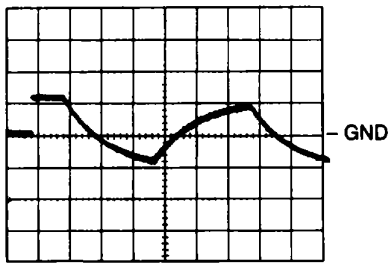
⑥ IC201-Pin 3: 50T-JUMP (*1) MODE (TRDR)
500mV/div 1msec/div



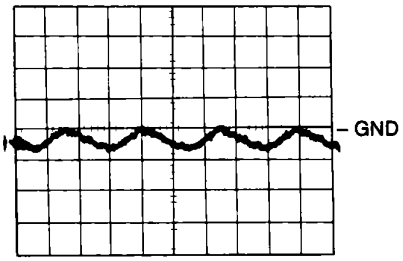
② TP1-Pin 1: TRACK SEARCH MODE (RF)
500mV/div 200 μ sec/div



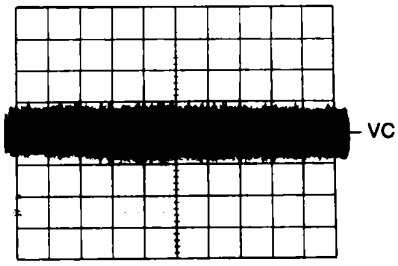
⑤ IC201-Pin 1: FOCUS-IN (*2) MODE (FODR)
1V/div 200msec/div



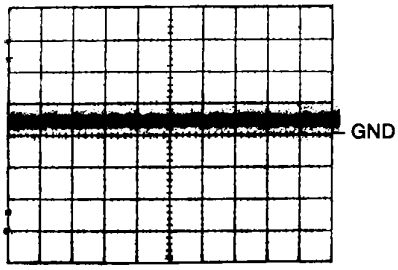
⑦ IC202-Pin 3: PLAY MODE (SPDR)
2V/div 50msec/div



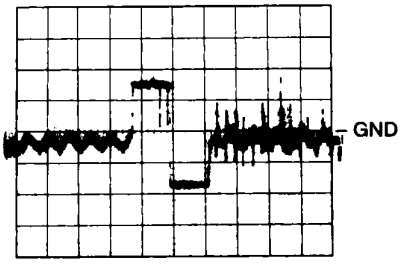
③ TP1-Pin 6: PLAY MODE (FOER)
100mV/div 10msec/div



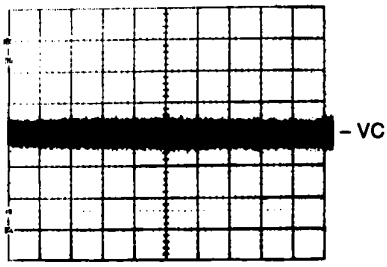
⑤ IC201-Pin 1: PLAY MODE (FODR)
1V/div 1msec/div



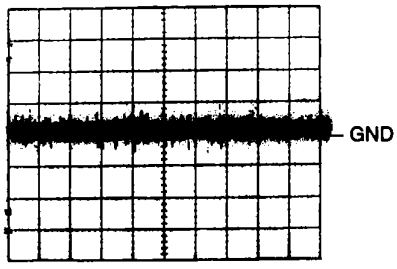
⑦ IC202-Pin 3: TRACK SEARCH MODE (SPDR)
2V/div 200msec/div



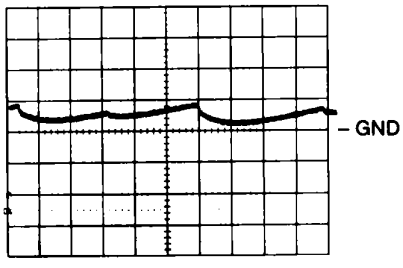
④ TP1-Pin 2: PLAY MODE (TRER)
1V/div 10msec/div



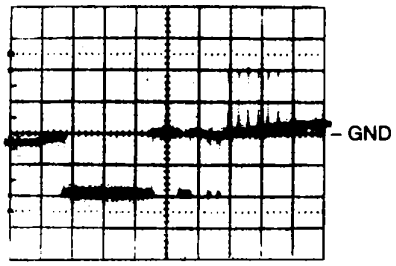
⑥ IC201-Pin 3: PLAY MODE (TRDR)
500mV/div 1msec/div



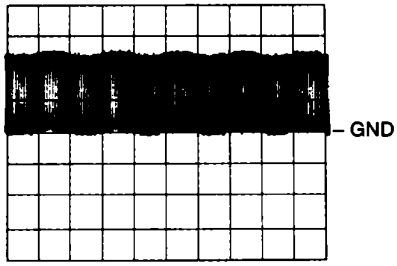
⑧ IC202-Pin 9: PLAY MODE (CADR)
0.5V/div 2S/div



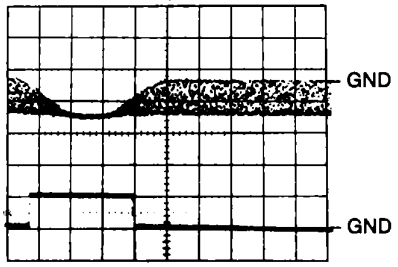
⑧ IC202-Pin 9: TRACK SEARCH MODE (CADR)
2V/div 200msec/div



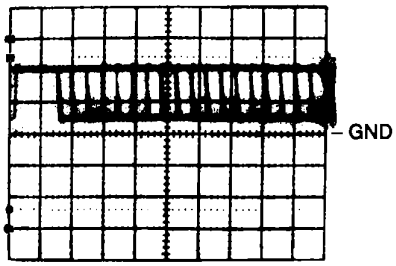
⑪ IC301-Pin 70: PLAY MODE (1kHz) (LPWM) (D/A DATA OUT)
2V/div 500 μ sec/div



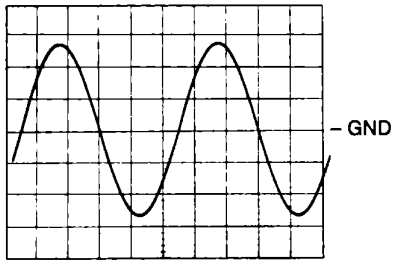
㉔ : PLAY MODE
Upper: TP1-Pin 1 (RF) 1V/div
Lower: IC151-Pin 30 (DFCT)
5V/div 200 μ sec/div



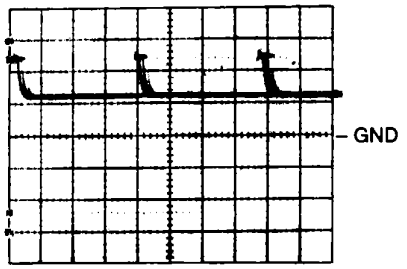
⑨ IC151-Pin 32: PLAY MODE (EFM)
2V/div 500nsec/div



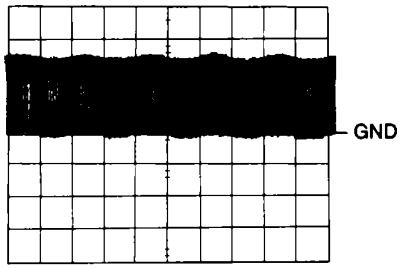
㉑ CN11-Pin 8: PLAY MODE (1kHz) (CDL)
1V/div 200 μ sec/div



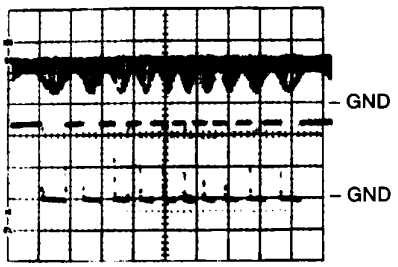
㉝ IC301-Pin 25: PLAY MODE (MDP)
2V/div 2 μ sec/div



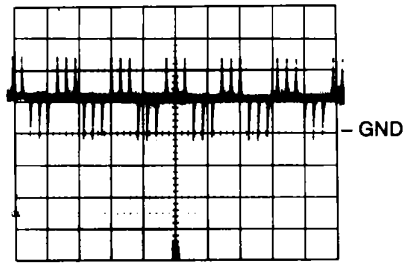
⑩ IC301-Pin 69: PLAY MODE (1kHz) (NLPWM) (D/A DATA OUT)
2V/div 500 μ sec/div

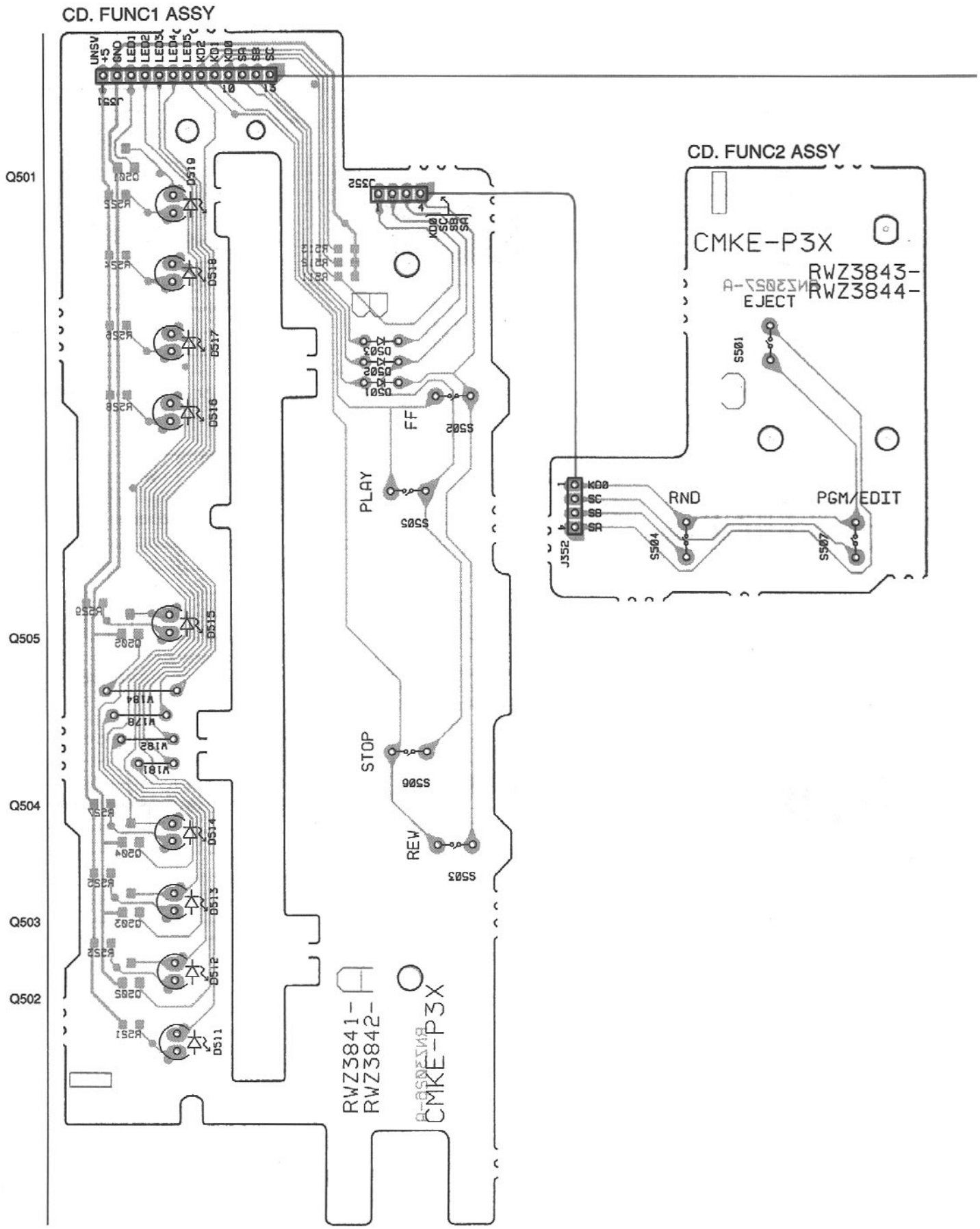


㉓ : TRACK SEARCH MODE
Upper: TP1-Pin 1 (RF) 1V/div
Lower: IC151-Pin 29 (MIRR)
2V/div 200 μ sec/div



㊸ IC301-Pin 31: PLAY MODE (PCO)
2V/div 10 μ sec/div

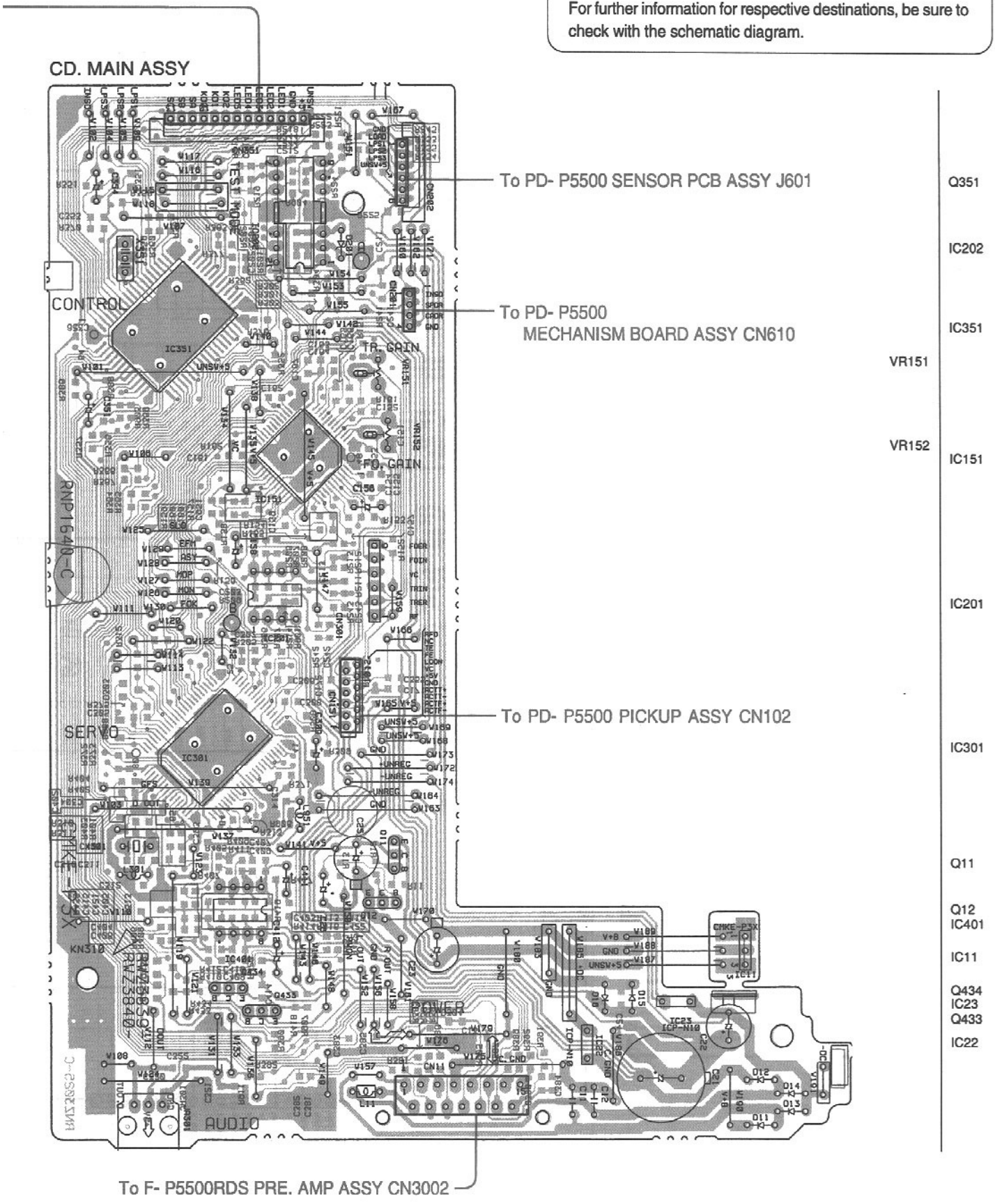



CD. FUNC1 ASSY
CD. FUNC2 ASSY
Q501
Q505
Q504
Q503
Q502
PLAY
FF
STOP
REW
RND
PGM/EDIT
EJECT
CMKE-P3X
RWZ3843-
RWZ3844-
RWZ3841-
RWZ3842-
CMKE-P3X

● This diagram is viewed from the mounted parts side.

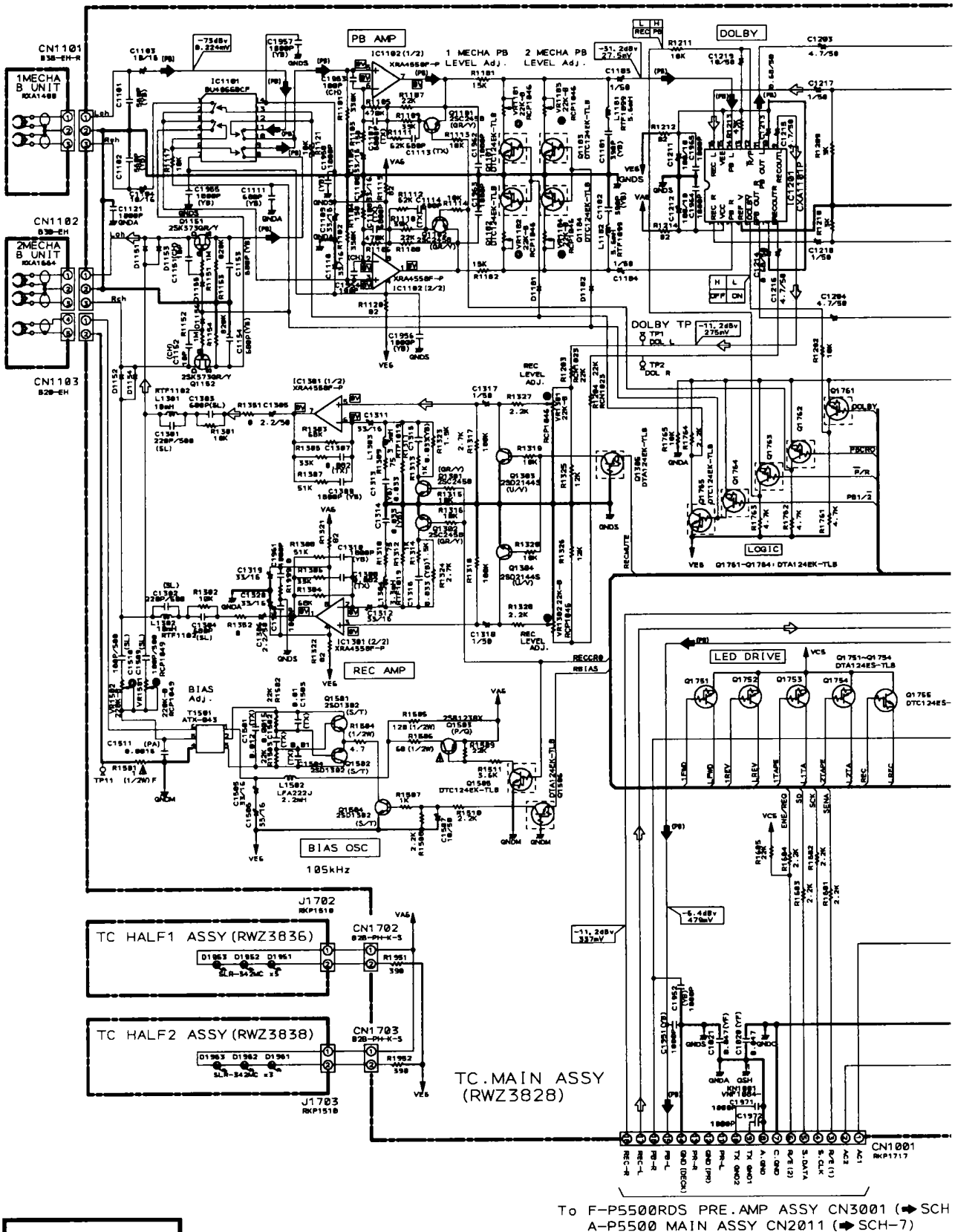
PCB-2

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.

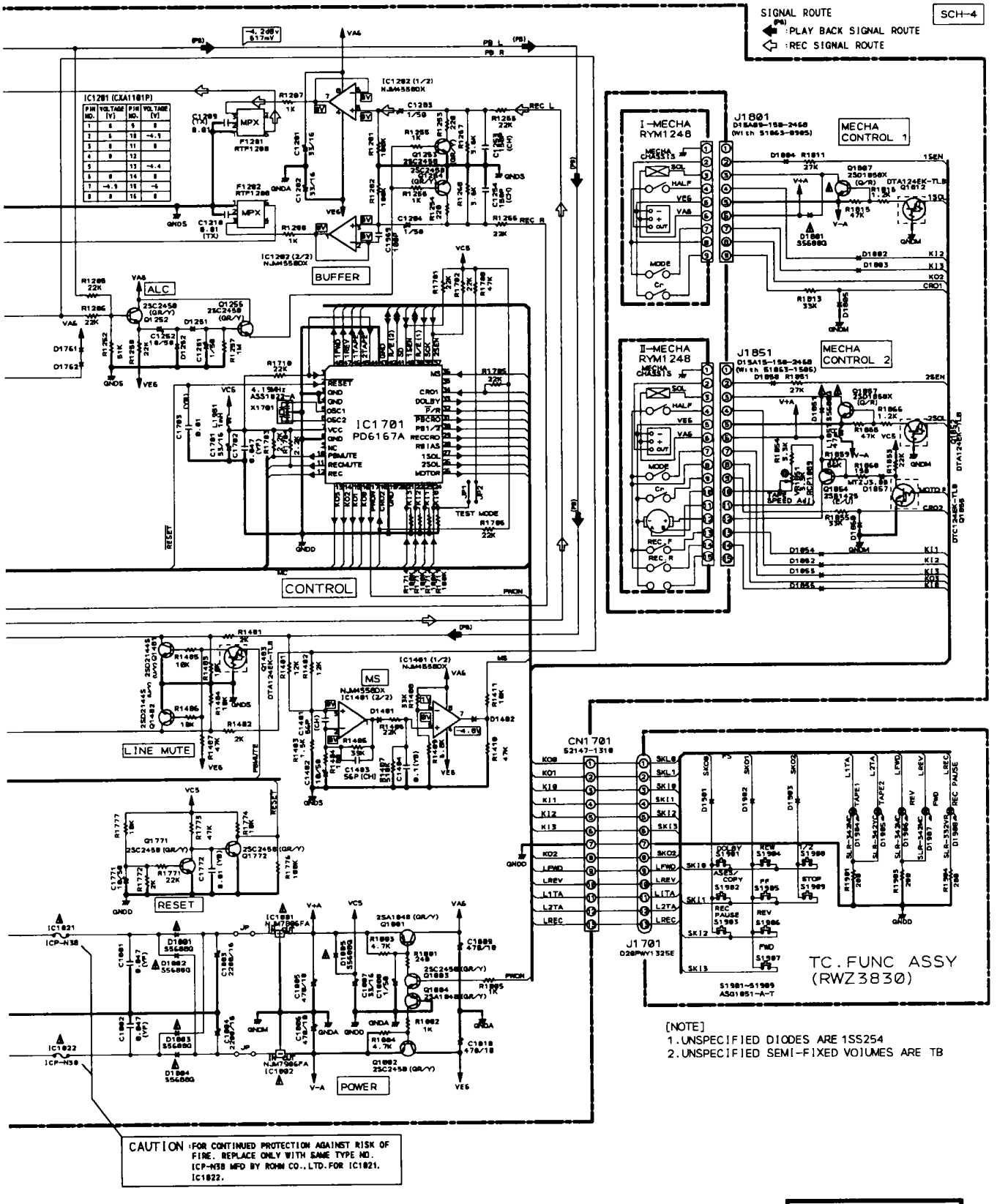


3.3 STEREO DOUBLE CASSETTE DECK (CT-P5500WR)

■ TC. MAIN Assy, TC. FUNC Assy, TC HALF1 Assy, TC HALF2 Assy and Mechanism Unit



SCH-4 TC. MAIN ASSY, TC. FUNC ASSY, TC HALF1 ASSY, TC HALF2 ASSY, MECHANISM UNIT (CT-P5500WR)

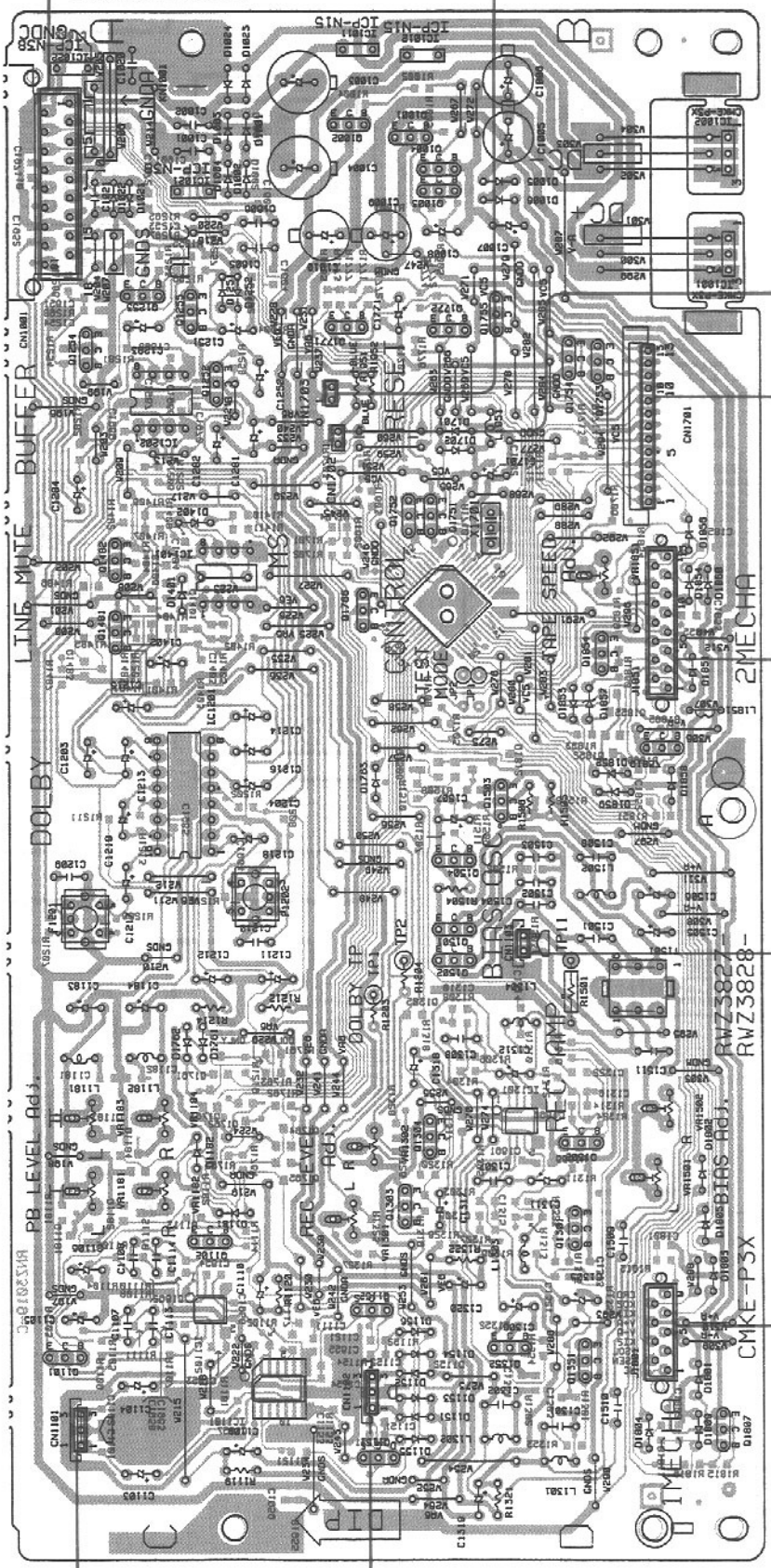


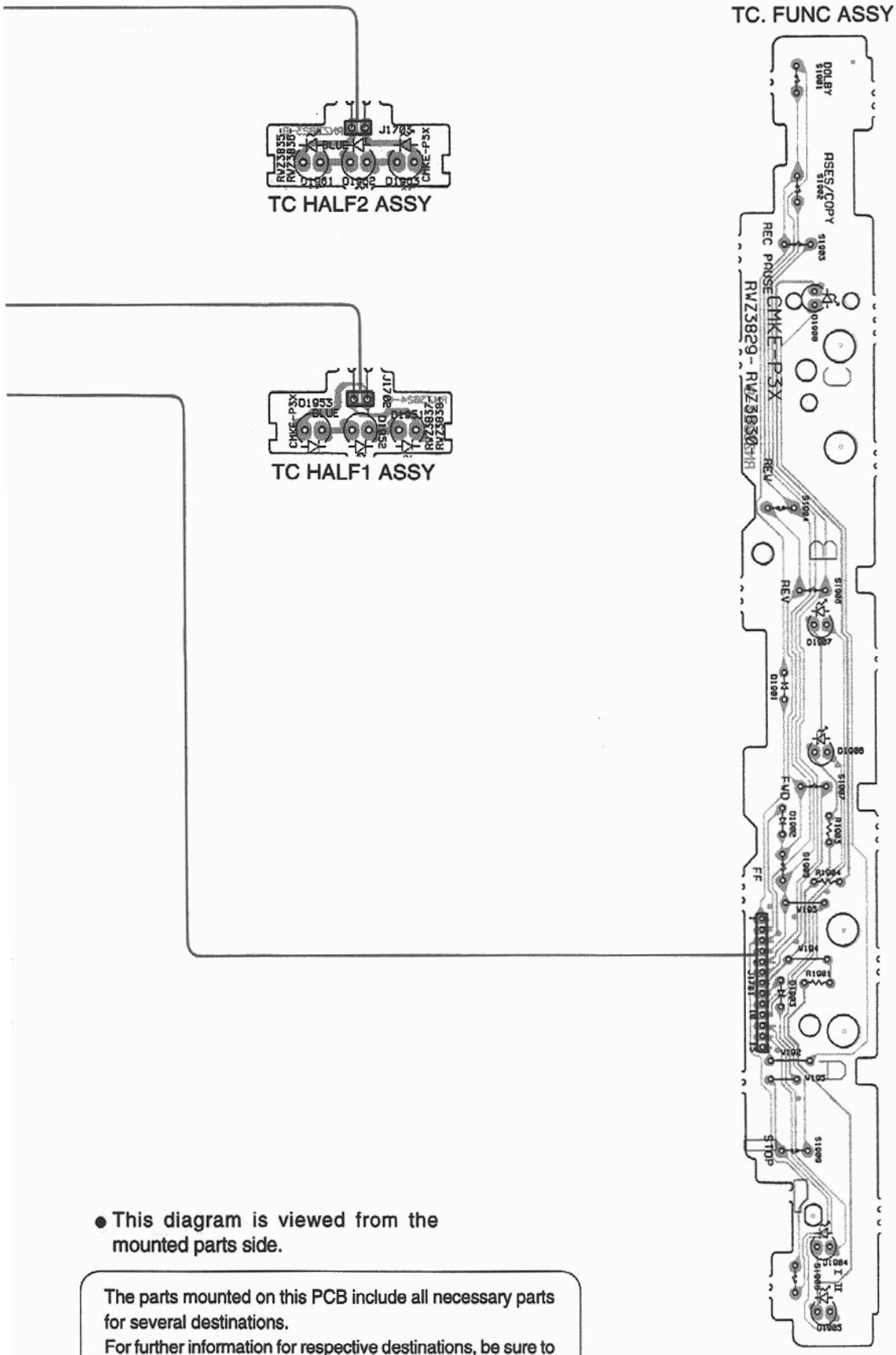
TC. MAIN ASSY, TC. FUNC ASSY, TC HALF1 ASSY,
TC HALF2 ASSY, MECHANISM UNIT
(CT-P5500WR)

SCH-4

To F- P5500RDS PRE. AMP ASSY CN3001 and A- P5500 MAIN ASSY CN2011

TC. MAIN ASSY



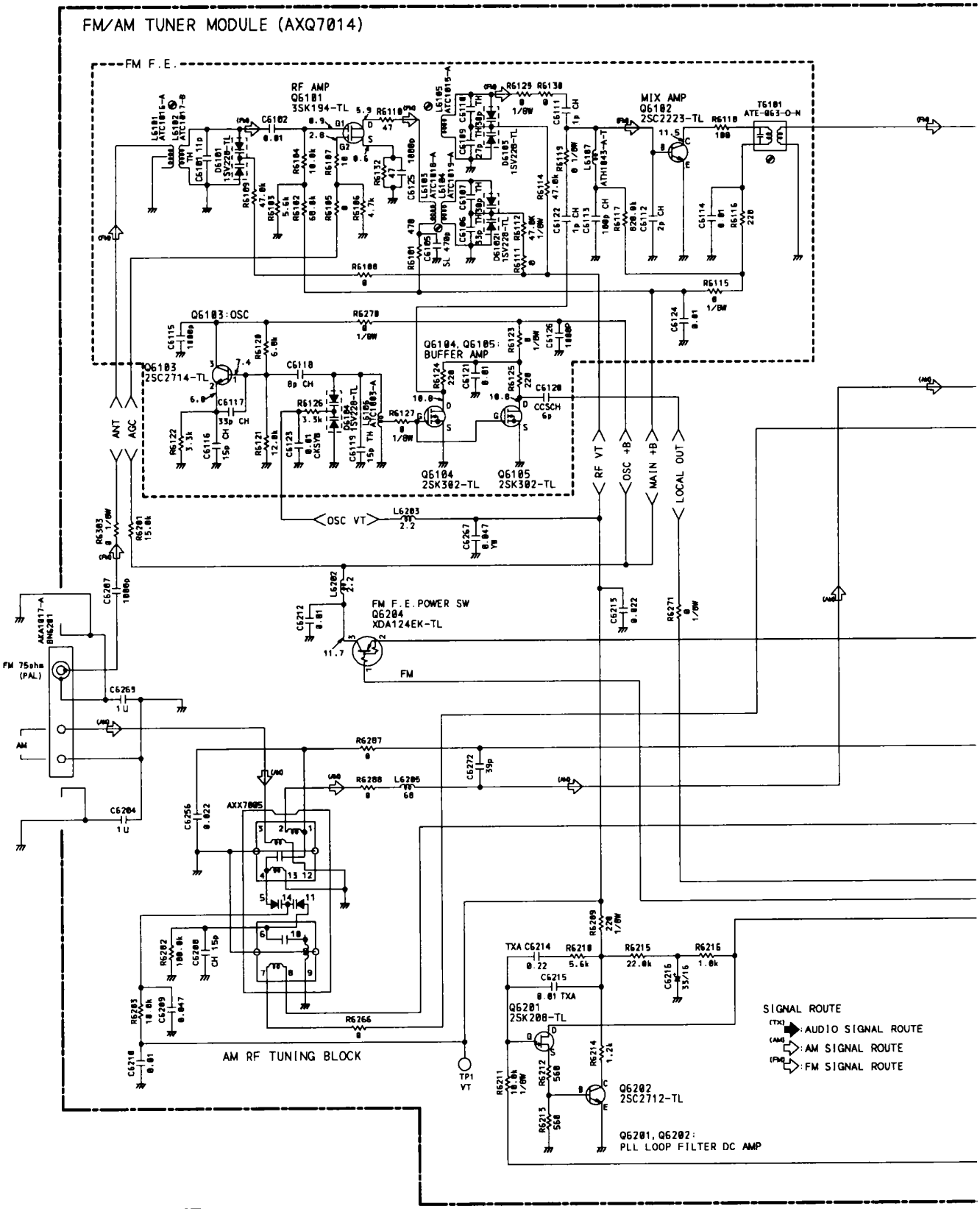


- This diagram is viewed from the mounted parts side.

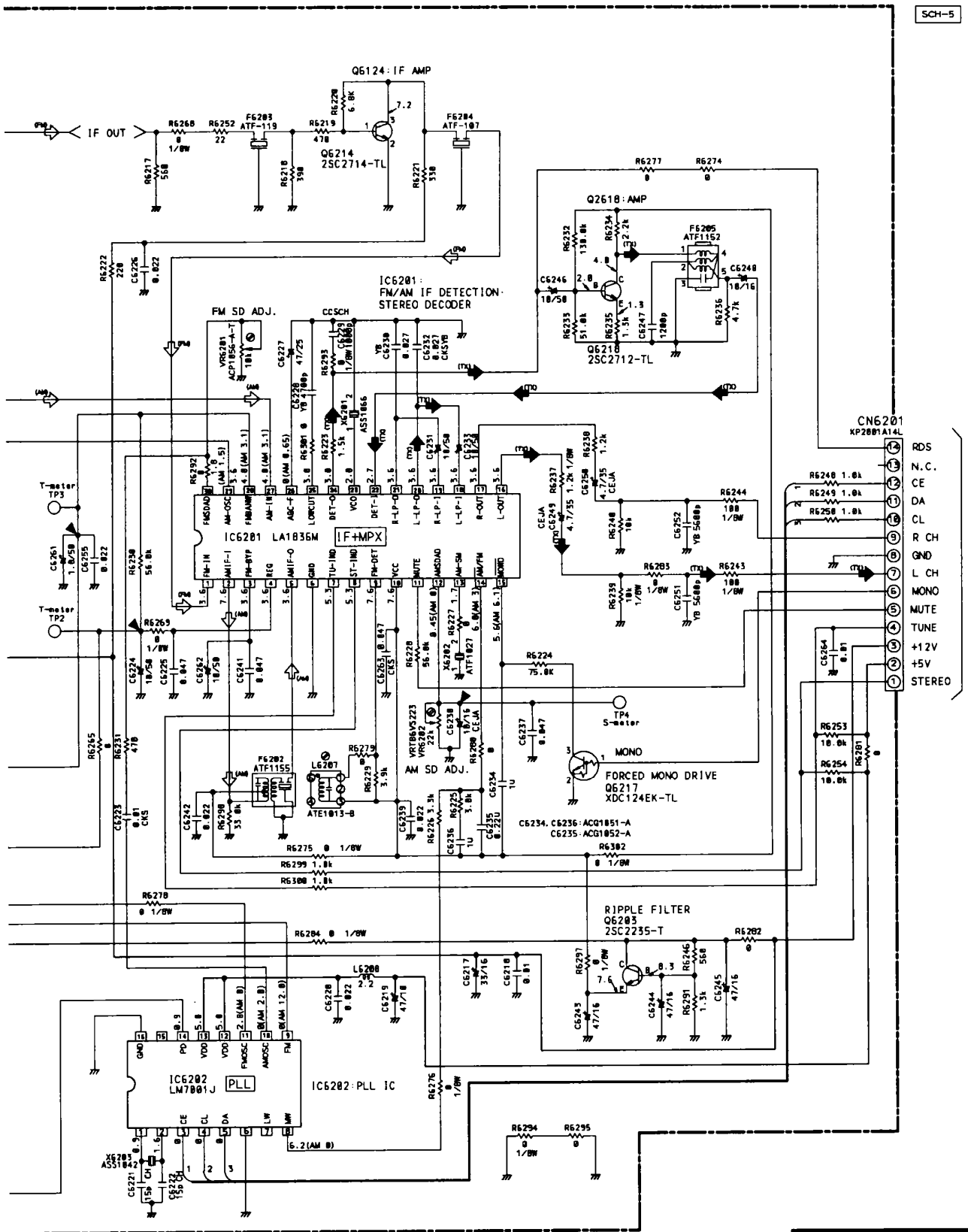
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

3.4 STEREO TUNER (F-P5500RDS)

■ FM/AM Tuner Module



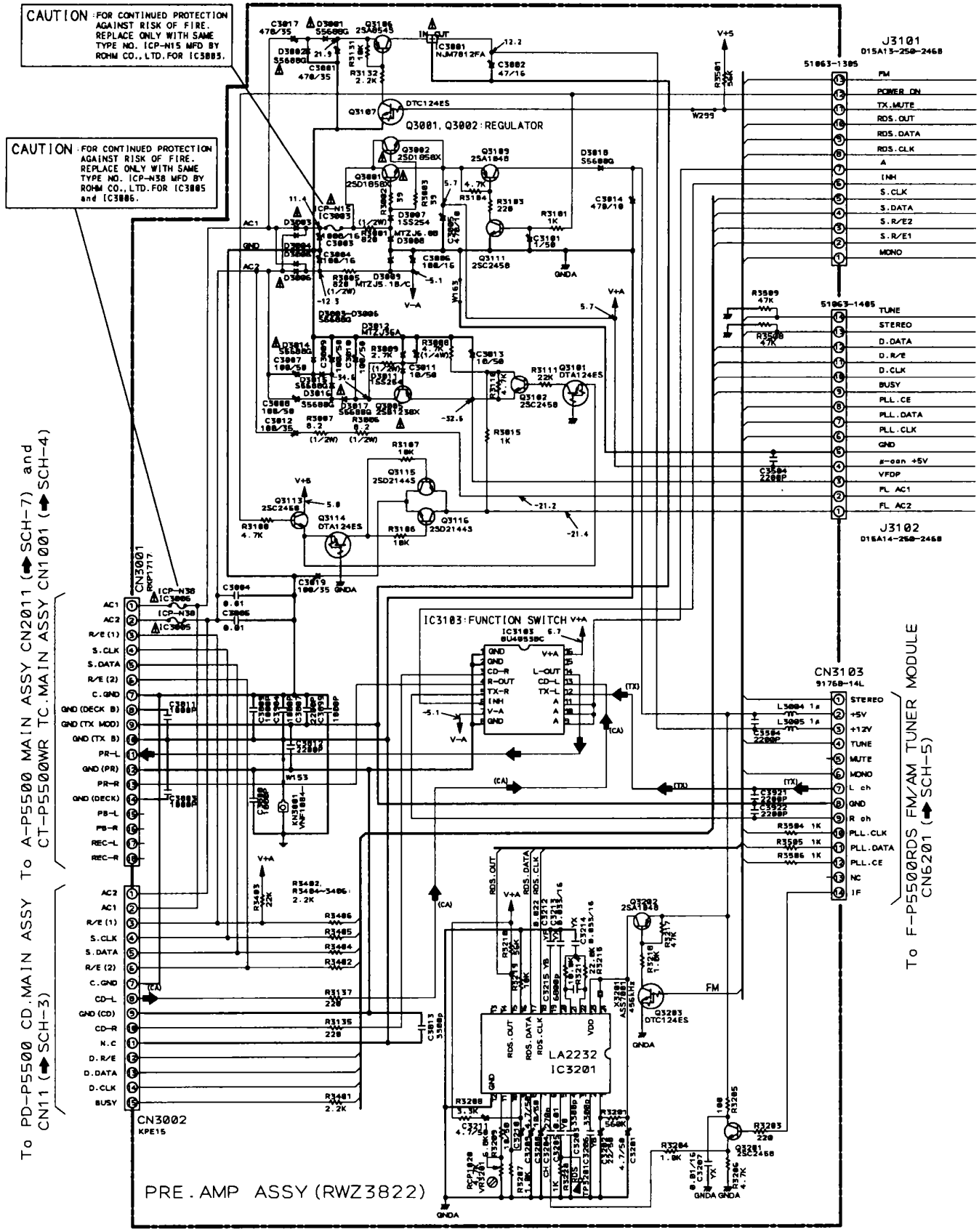
SCH-5 FM/AM TUNER MODULE (F-P5500RDS)



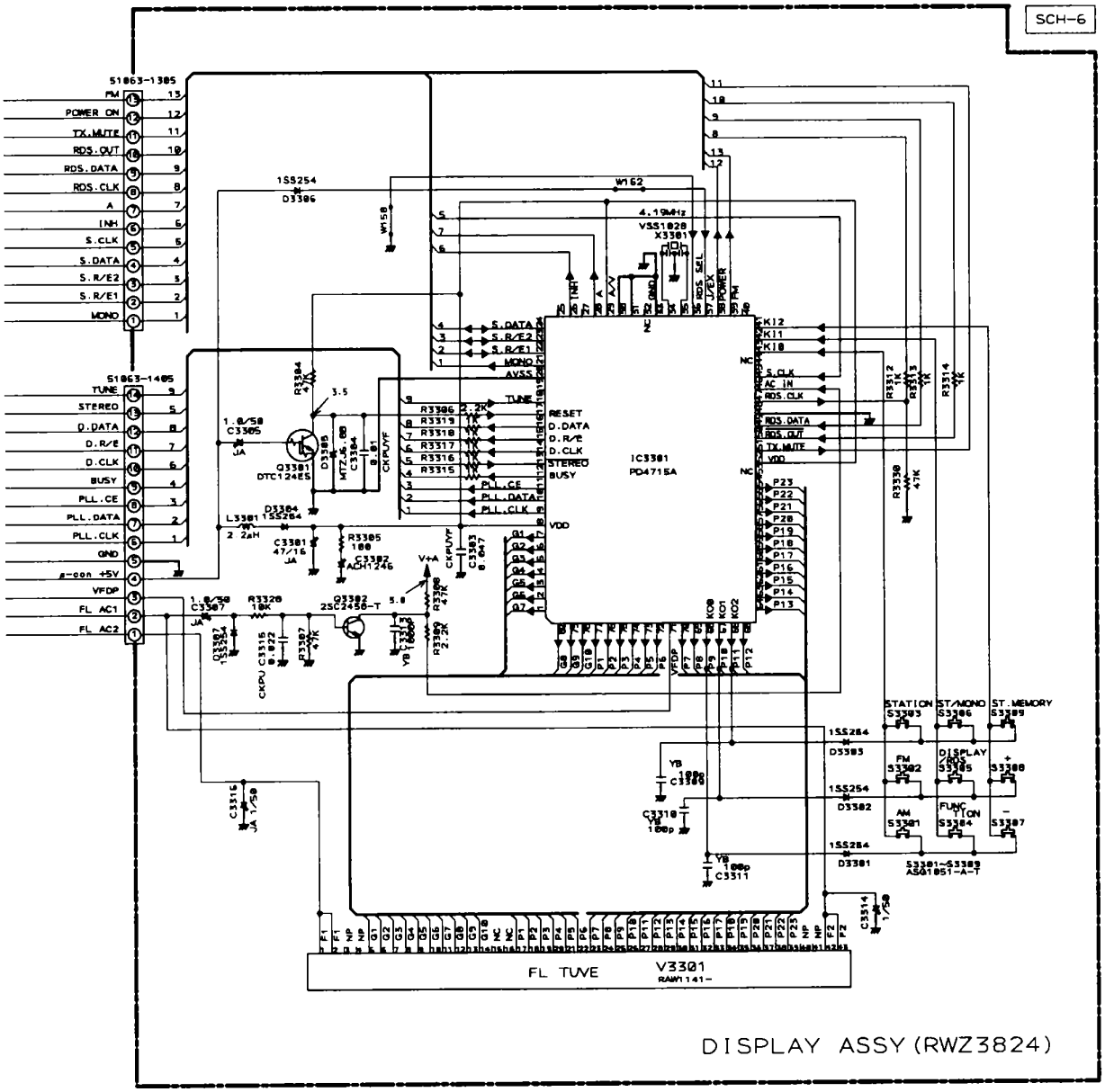
FM/AM TUNER MODULE
(F-P5500RDS)

SCH-5

■ PRE. AMP Assy and DISPLAY Assy



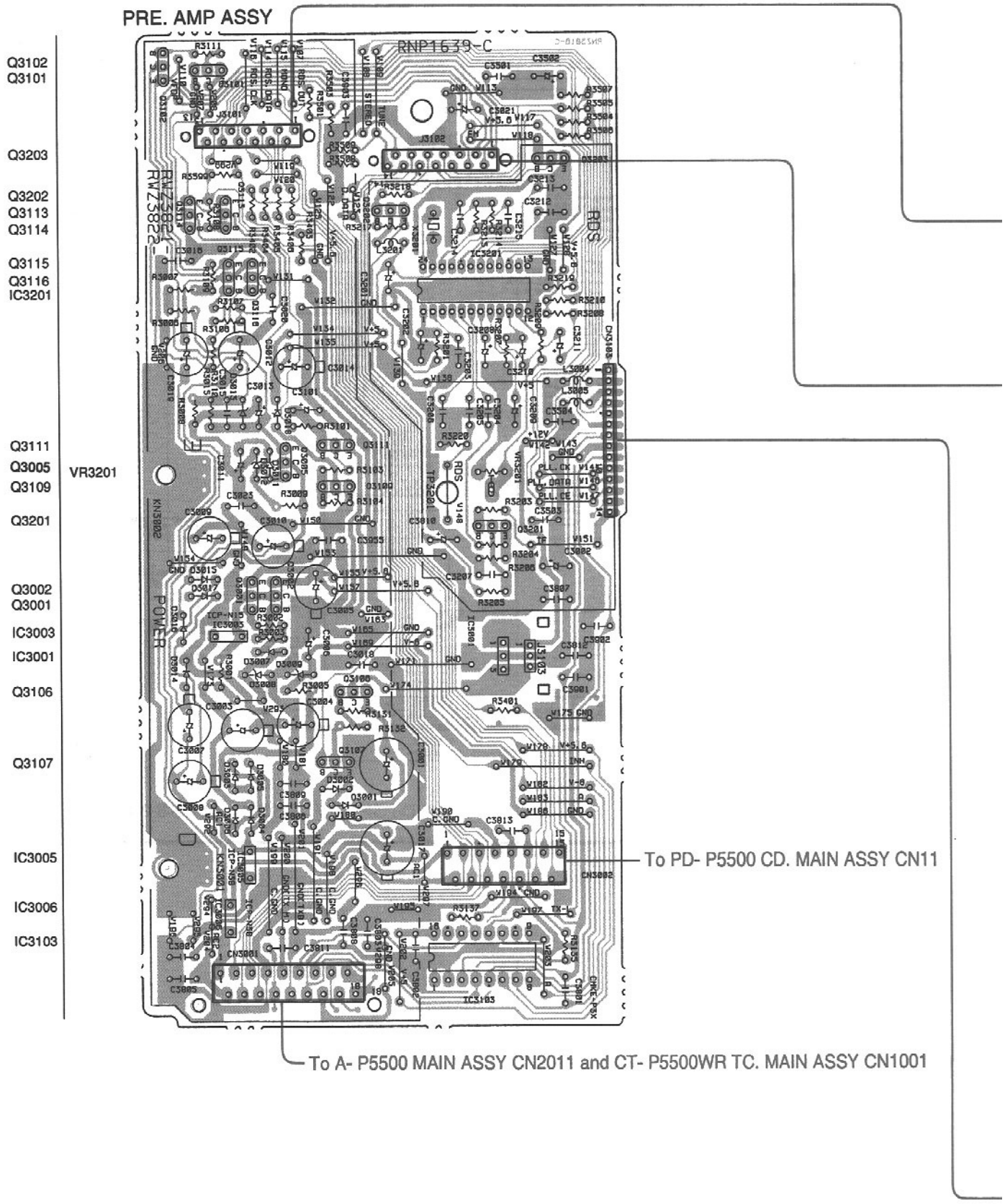
SCH-6 PRE. AMP ASSY, DISPLAY ASSY (F-P5500RDS)



DISPLAY ASSY (RWZ3824)

SIGNAL ROUTE

- AUDIO SIGNAL ROUTE
- (CA) CD AUDIO SIGNAL ROUTE
- (TX) TUNER AUDIO SIGNAL ROUTE

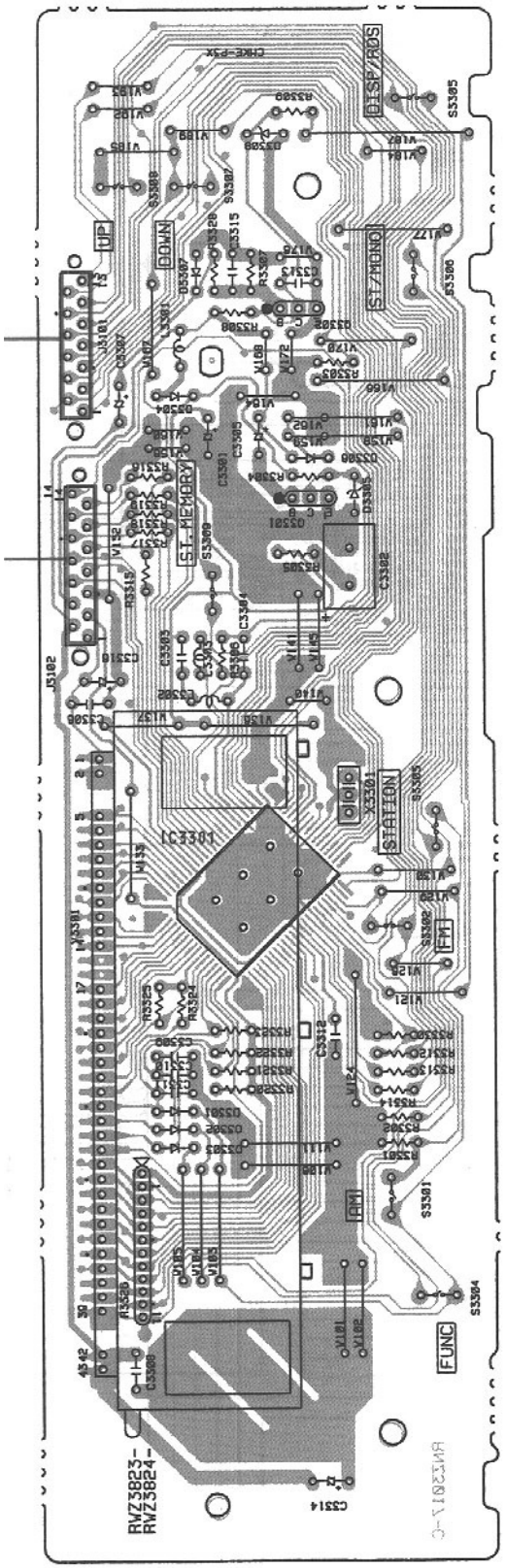

PRE. AMP ASSY
RNP1639-C
Q3102
Q3101
Q3203
Q3202
Q3113
Q3114
Q3115
Q3116
IC3201
Q3111
Q3005
VR3201
Q3109
Q3201
Q3002
Q3001
IC3003
IC3001
Q3106
Q3107
IC3005
IC3006
IC3103
RWZ3822
KNS3002
POWER
RDS
To PD- P5500 CD. MAIN ASSY CN11
To A- P5500 MAIN ASSY CN2011 and CT- P5500WR TC. MAIN ASSY CN1001

● This diagram is viewed from the mounted parts side.

PCB-4

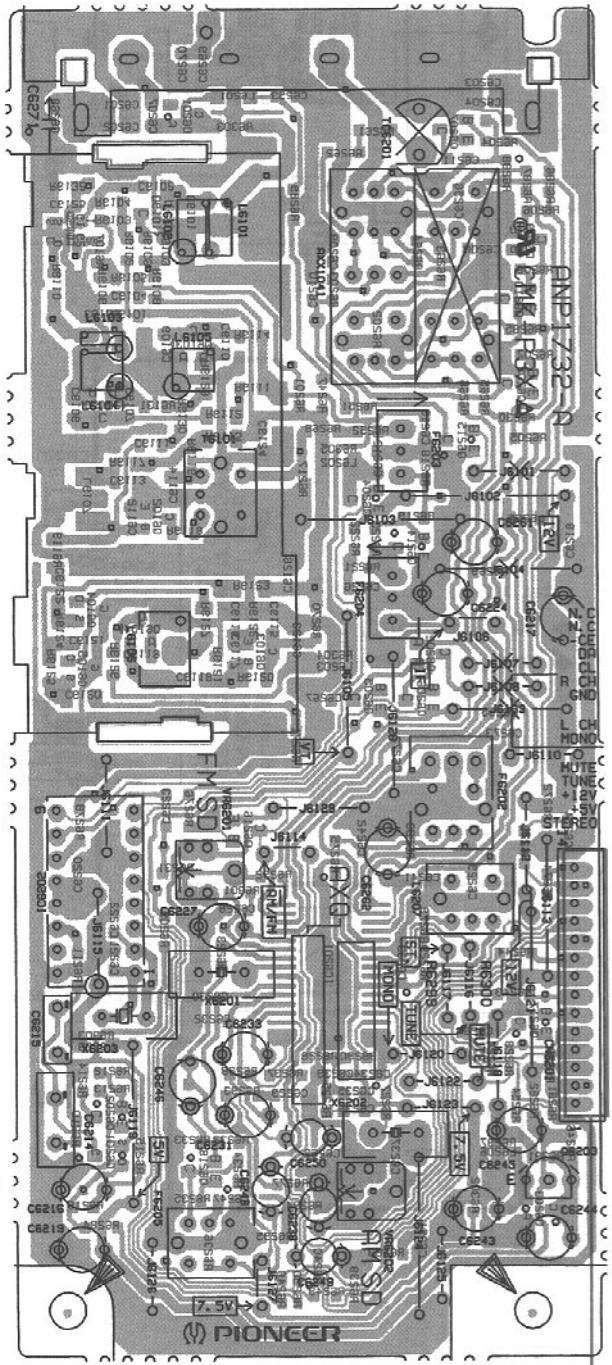
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

DISPLAY ASSY



Q3302
Q3301
IC3301

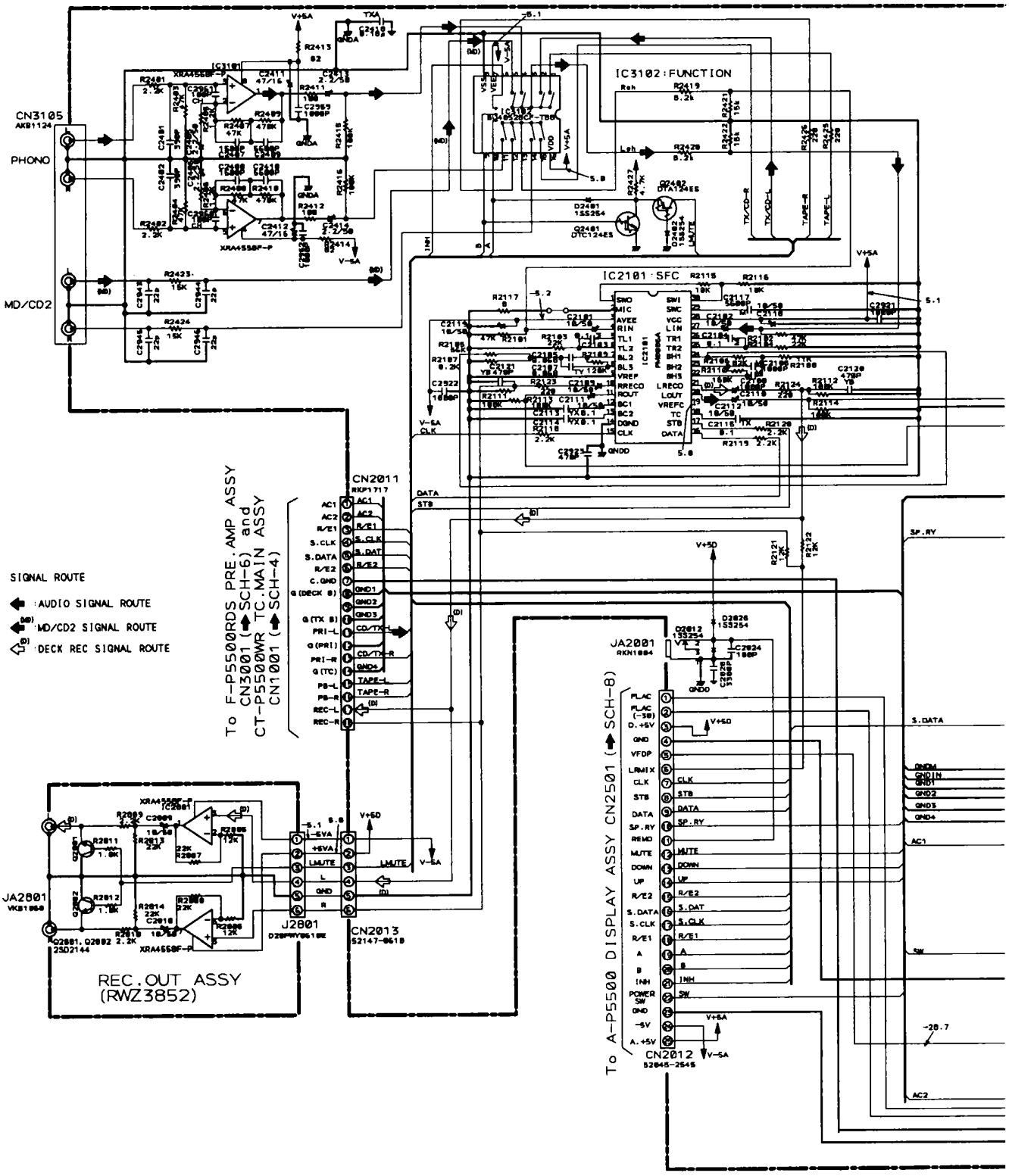
FM/AM TUNER MODULE



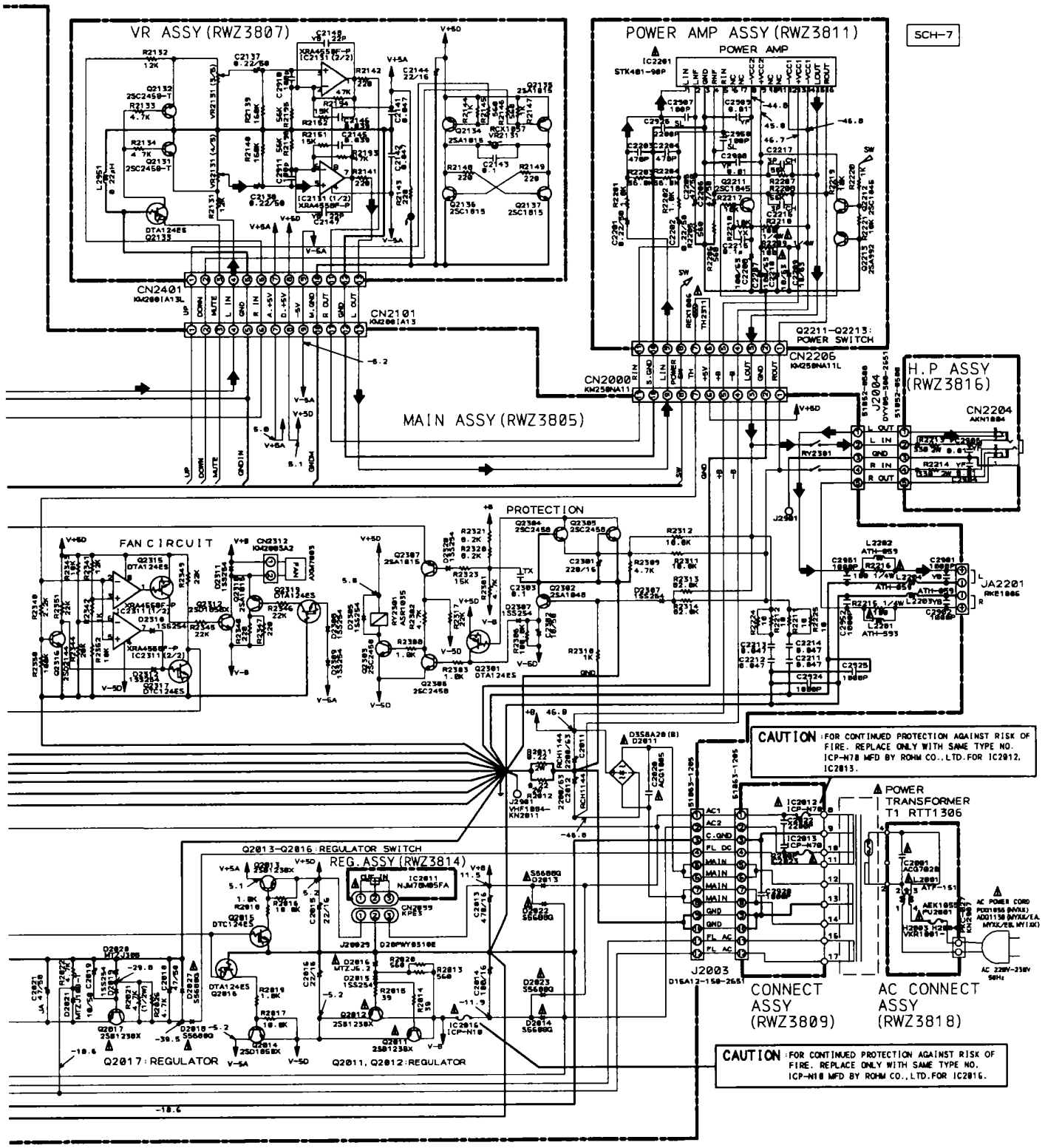
Q6207
Q6101
Q6209
Q6210
Q6208
Q6215
Q6204
Q6102
Q6214
Q6104
Q6103
Q6105
Q6205
Q6206
Q6216
IC6202
VR6201
IC6201
Q6217
Q6202
Q6201
Q6218
Q6203
VR6202

3.5 STEREO AMPLIFIER (A-P5500)

■ MAIN Assy, VR Assy, CONNECT Assy, POWER AMP Assy, REG. Assy, H. P Assy, AC. CONNECT Assy and REC. OUT Assy



SCH-7 MAIN ASSY, VR ASSY, CONNECT ASSY, POWER AMP ASSY, REG. ASSY, H. P ASSY, AC. CONNECT ASSY, REC. OUT ASSY (A-P5500)

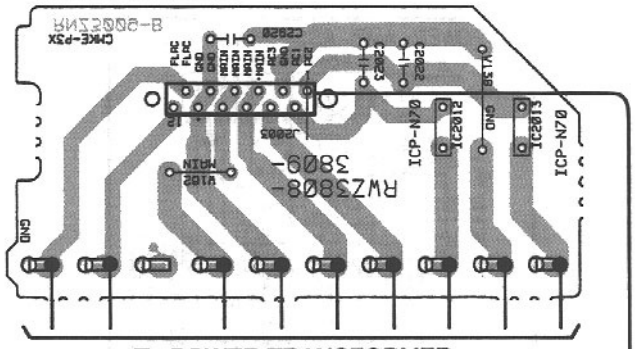


MAIN ASSY, VR ASSY, CONNECT ASSY, POWER AMP ASSY,
REG. ASSY, H. P ASSY, AC. CONNECT ASSY, REC. OUT ASSY
(A-P5500)

SCH–7

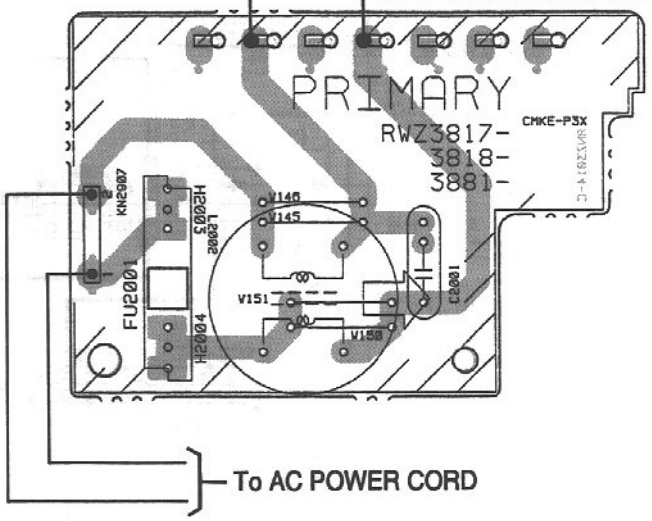
IC2012 IC2013

CONNECT ASSY



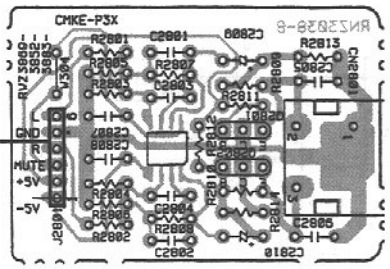
To POWER TRANSFORMER

AC. CONNECT ASSY



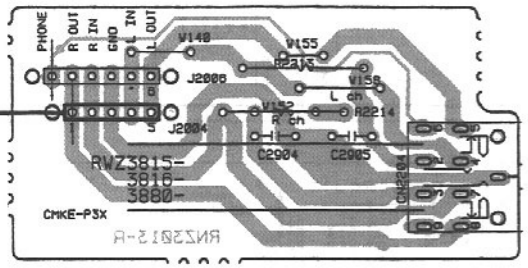
To AC POWER CORD

REC. OUT ASSY

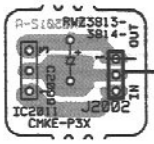


IC2801 Q2801 Q2802

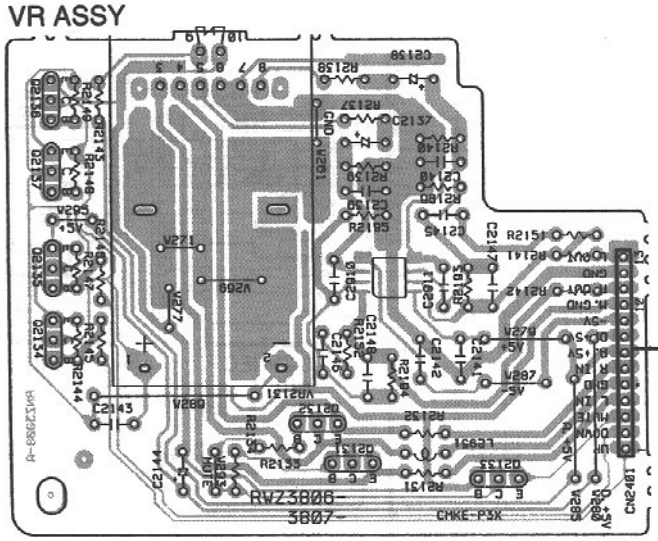
H. P ASSY



REG. ASSY



VR ASSY

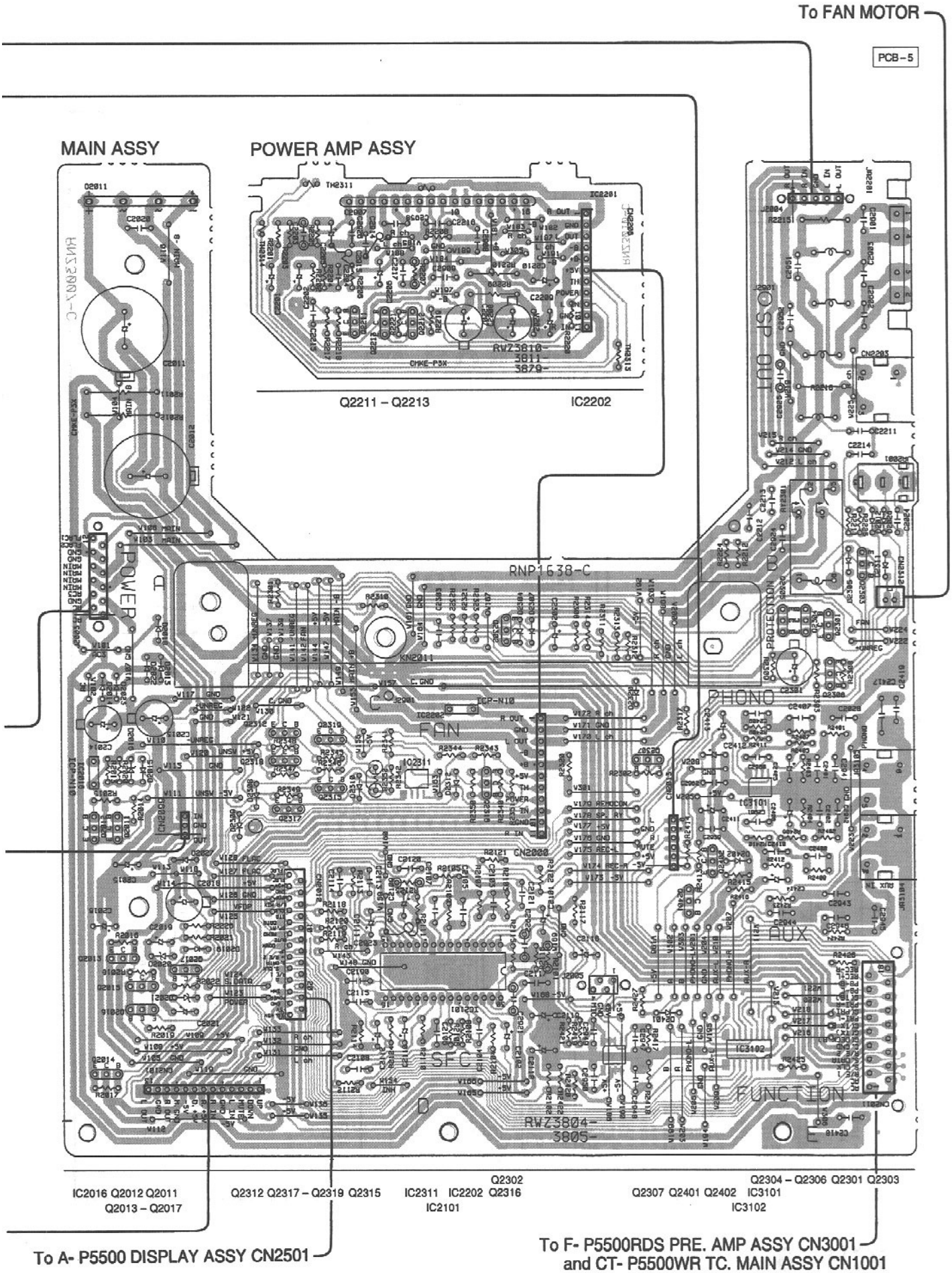


VR2131

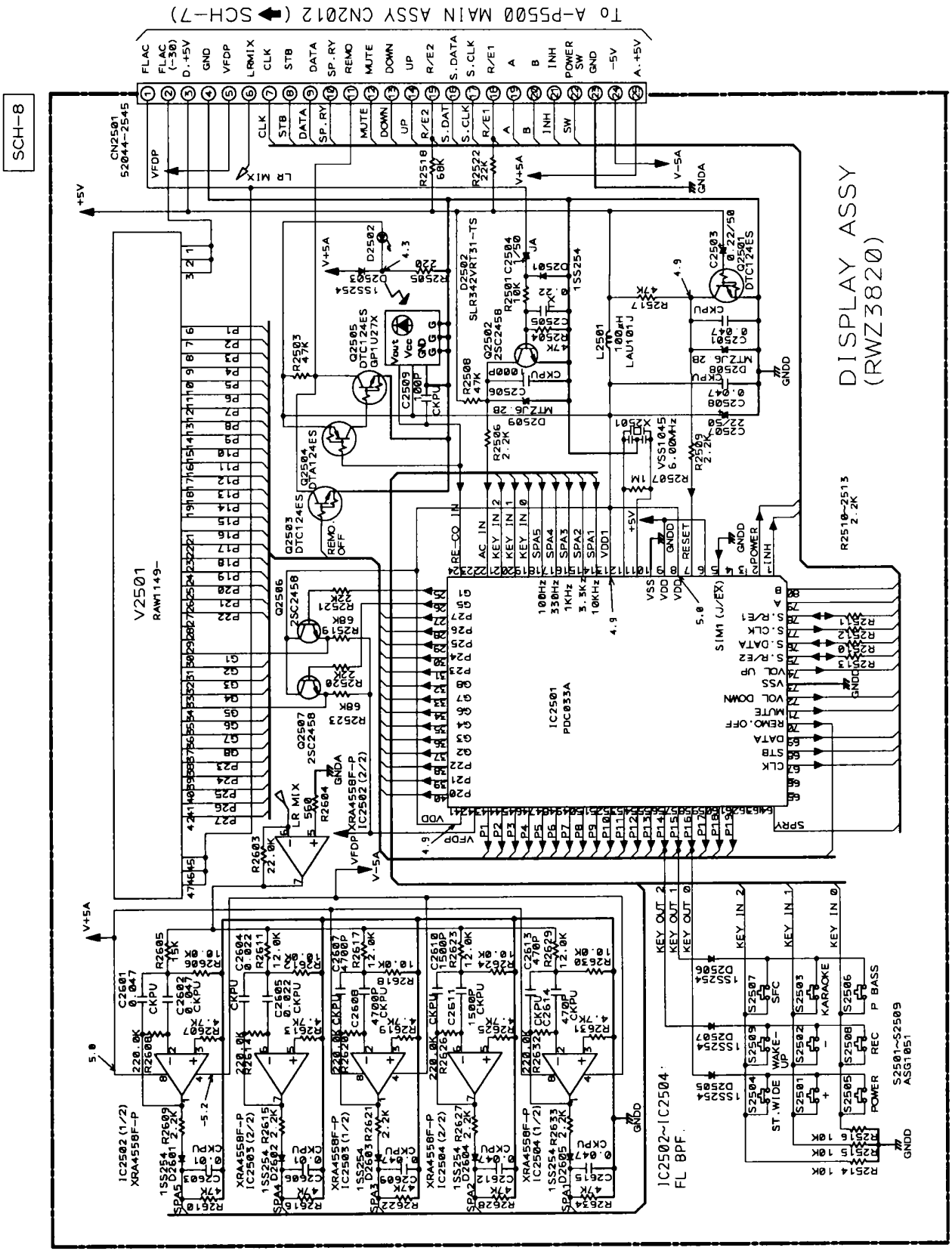
Q2134 – Q2137 Q2132 Q2131 IC2131 Q2133

● 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.


To FAN MOTOR
PCB – 5
MAIN ASSY
POWER AMP ASSY
Q2211 – Q2213
IC2202
RNP1638-C
IC2016 Q2012 Q2011
Q2013 – Q2017
Q2312 Q2317 – Q2319 Q2315
IC2311 IC2202 Q2316
IC2101
Q2302
Q2307 Q2401 Q2402 IC3101
IC3102
Q2304 – Q2306 Q2301 Q2303
To A- P5500 DISPLAY ASSY CN2501
To F- P5500RDS PRE. AMP ASSY CN3001
and CT- P5500WR TC. MAIN ASSY CN1001

■ DISPLAY Assy



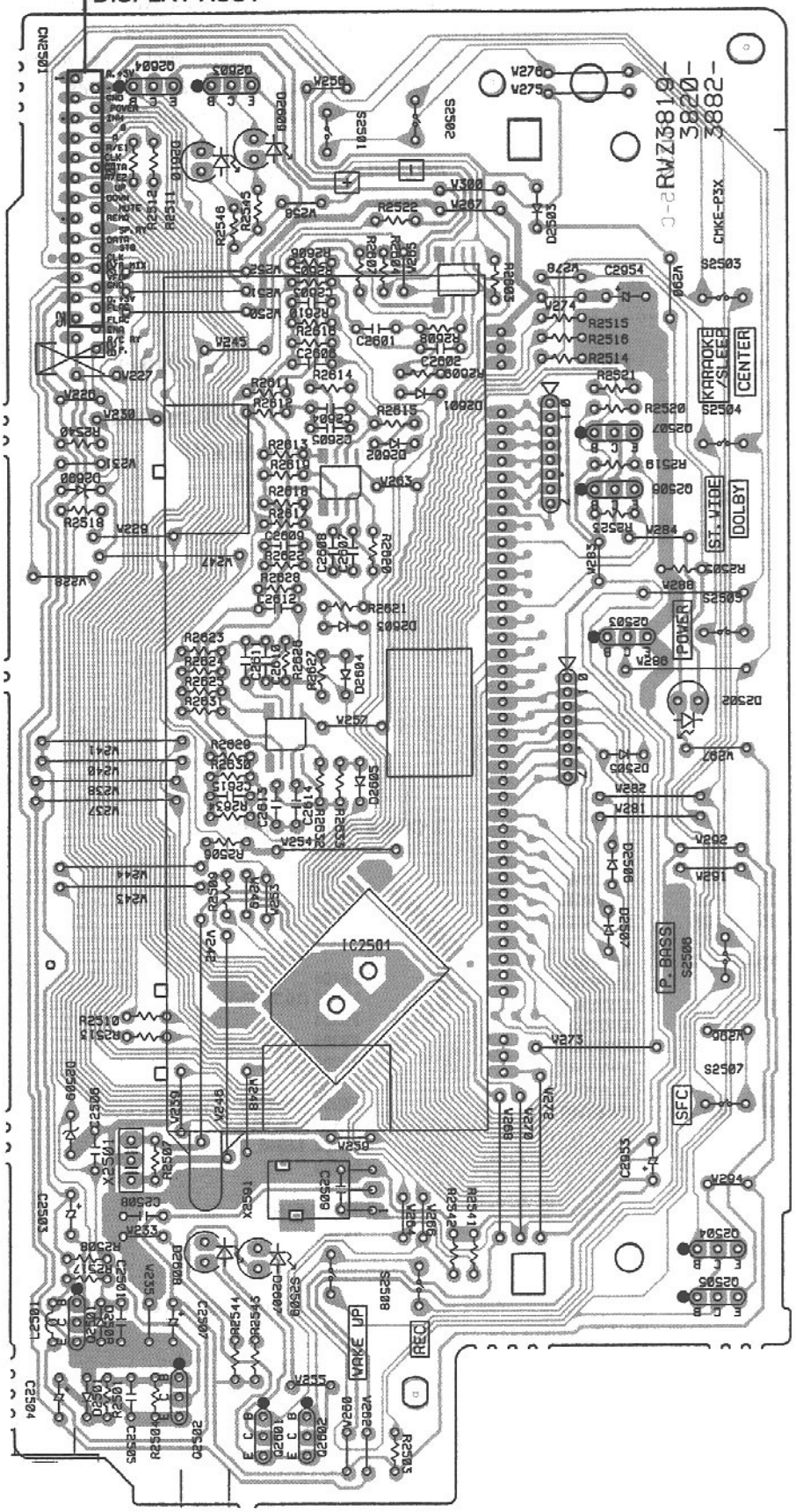
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

● This diagram is viewed from the mounted parts side.

PCB-7

To A- P5500 MAIN ASSY CN2012

DISPLAY 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 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%).

560Ω → 56 x 10¹ = 561 ..... RD1/4PU 5 6 1 J
47kΩ → 47 x 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 x 10¹ = 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.
LIST OF PCB ASSEMBLIES			
		FM/AM TUNER MODULE	AXQ7014
NSP		PRE. TX ASSY	RWM1902
		├ PRE. AMP ASSY	RWZ3822
		└ DISPLAY ASSY	RWZ3824
NSP		SFC. AMP ASSY	RWM1900
		├ MAIN ASSY	RWZ3805
		├ VR ASSY	RWZ3807
		├ CONNECT ASSY	RWZ3809
		├ POWER AMP ASSY	RWZ3811
		├ REG. ASSY	RWZ3814
NSP		├ H. P ASSY	RWZ3816
NSP		├ AC. CONNECT ASSY	RWZ3818
		├ DISPLAY ASSY	RWZ3820
		└ REC. OUT ASSY	RWZ3852
NSP		DECK. CD ASSY	RWM1904
		├ TC. MAIN ASSY (for CT-P5500WR)	RWZ3828
NSP		├ TC. FUNC ASSY (for CT-P5500WR)	RWZ3830
NSP		├ TC HALF1 ASSY (for CT-P5500WR)	RWZ3836
NSP		├ TC HALF2 ASSY (for CT-P5500WR)	RWZ3838
		├ CD. MAIN ASSY (for PD-P5500)	RWZ3840
NSP		├ CD. FUNC1 ASSY (for PD-P5500)	RWZ3842
NSP		└ CD. FUNC2 ASSY (for PD-P5500)	RWZ3844
NSP		CD SLOT-IN MECHA (for PD-P5500)	AXA7014
NSP		├ SL MECHA PCB ASSY	AWX7007
NSP		│ ├ SENSOR PCB ASSY	AWZ7328
NSP		│ ├ LED PCB ASSY	AWZ7329
NSP		│ ├ SW PCB ASSY	AWZ7330
NSP		│ └ MOTOR PCB ASSY	AWZ7331
NSP		└ SERVO MECHA ASSY SL	AXA7017
		└ MECHANISM BOARD ASSY	PWX1192

Mark	No.	Description	Parts No.
■ STEREO TUNER (F-P5500RDS)			
FM/AM TUNER MODULE			
SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202, Q6218		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104, Q6105		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101-D6104		1SV228
COILS AND FILTERS			
	L6106		ATC1003
	L6105		ATC1015
	L6101		ATC1016
	L6102		ATC1017
	L6103		ATC1018
	L6104		ATC1019
	L6207 (10.7MHz)		ATE1013
	F6204		ATF-107
	F6203		ATF-119
	F6205		ATF1152
	F6202 (450kHz)		ATF1155
	L6107 (2.2μH)		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225
	L6205		LCTA680J3225
TRANSFORMERS			
	T6101		ATE-063
CAPACITORS			
	C6204, C6234, C6236, C6269 (1μF/16V)		ACG1051
	C6120		CCSCH060D50
	C6229		CCSCH102J50
	C6111, C6122		CCSQCH010C50
	C6112		CCSQCH020C50

Mark	No.	Description	Parts No.
	C6118		CCSQCH080D50
	C6113		CCSQCH101J50
	C6116, C6208, C6221, C6222		CCSQCH150J50
	C6117		CCSQCH330J50
	C6272		CCSQSL330J50
	C6105		CCSQSL471J50
	C6101		CCSQTH110J50
	C6119		CCSQTH150J50
	C6109		CCSQTH270J50
	C6107, C6110		CCSQTH300J50
	C6106		CCSQTH330J50
	C6261		CEAS010M50
	C6224, C6231, C6233, C6246, C6262		CEAS100M50
	C6227		CEAS101M10
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243–C6245		CEAS470M16
	C6238, C6248		CEJA100M16
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6115, C6125, C6126, C6207		CKSQYB102K50
	C6102, C6114, C6121, C6124, C6210		CKSQYB103K50
	C6264		CKSQYB103K50
	C6247		CKSQYB122K50
	C6213		CKSQYB223K50
	C6230		CKSQYB273K50
	C6228		CKSQYB472K50
	C6209, C6237, C6267		CKSQYB473K50
	C6251, C6252		CKSQYB562K50
	C6212, C6218		CKSQYF103Z50
	C6220, C6226, C6239, C6242		CKSQYF223Z50
	C6255, C6256		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241		CKSQYF473Z50
	C6123		CKSYB103K50
	C6232		CKSYB273K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50

RESISTORS

	VR6201 (10kΩ)		ACP1056
	VR6202		VRTB6VS223
	R6299, R6300		RD1/6PM102J
	R6115, R6119, R6123, R6127, R6129		RS1/8S000J
	R6268–R6271, R6275, R6276, R6278		RS1/8S000J
	R6283, R6284, R6293, R6294, R6297		RS1/8S000J
	R6302, R6303		RS1/8S000J
	R6243, R6244		RS1/8S101J
	R6211, R6239		RS1/8S103J
	R6237		RS1/8S122J
	R6209		RS1/8S221J
	R6112		RS1/8S473J
	Other Resistors		RS1/10S□□□J

OTHERS

		AM RF TUNING BLOCK	AXX7005
	BN6201	2P TERMINAL WITH PAL	AKA1017
	CN6201	14P SOCKET	KP2001A14L
	X6203 (7.200MHz)		ASS1042
	X6201 (456kHz)		ASS1066
	X6202 (450kHz)		ATF1027

Mark	No.	Description	Parts No.
	IC3103		BU4053BC
⚠	IC3003		ICP-N15
⚠	IC3005, IC3006		ICP-N38
	IC3201		LA2232
⚠	IC3001		NJM7812FA
	Q3109, Q3202		2SA1048
	Q3106		2SA854S
	Q3005		2SB1238X
	Q3102, Q3111, Q3113, Q3201		2SC2458
⚠	Q3001, Q3002		2SD1858X
	Q3115, Q3116		2SD2144S
	Q3101, Q3114		DTA124ES
	Q3107, Q3203		DTC124ES
	D3007, D3011		1SS254
	D3012		MTZJ36A
	D3009		MTZJ5.1B
	D3008		MTZJ6.8B
⚠	D3001–D3006, D3014–D3018		S5688G

PRE. AMP ASSY

SEMICONDUCTORS

COILS AND FILTERS

	L3004, L3005		LAU010J

CAPACITORS

	C3204		CCCCH271J50
	C3011, C3013, C3208, C3210		CEAS100M50
	C3004, C3006		CEAS101M16
	C3012, C3019		CEAS101M35
	C3007–C3010		CEAS101M50
	C3003		CEAS102M16
	C3017		CEAS102M25
	C3001		CEAS102M35
	C3202		CEAS220M50
	C3002		CEAS470M16
	C3005, C3014		CEAS471M10
	C3201, C3209, C3211		CEAS4R7M50
	C3504, C3803, C3807–C3809		CKCYB102K50
	C3811, C3812, C3901–C3904		CKCYB102K50
	C3205		CKCYB103K50
	C3203, C3206, C3813		CKCYB332K50
	C3215		CKCYB682K50
	C3804, C3805		CKCYF103Z50
	C3212		CKCYF223Z50
	C3207		CKCYX103M16
	C3213, C3214		CKCYX333M16

RESISTORS

	VR3201 (4.7kΩ)		RCP1020
	R3009		RD1/2VM272J
	R3001, R3005		RD1/2VM821J
	R3006, R3007		RD1/2VM8R2J
	R3008		RD1/4VM472J
	Other Resistors		RD1/6PM□□□J

OTHERS

		CABLE HOLDER (13P)	51063-1305
		CABLE HOLDER (14P)	51063-1405
	CN3103	CONNECTOR (14P)	9176B-14L
		HEAT SINK	ANH-575
	X3201 (456kHz)		ASS7001

Mark	No.	Description	Parts No.
		SCREW	BBZ30P080FZK
	CN3002	CONNECTOR (15P)	KPE15
	CN3001	SOCKET (18P)	RKP1717
	KN3001	EARTH METAL FITTING	VNF1084

DISPLAY ASSY

SEMICONDUCTORS

	IC3301	PD4715A
	Q3302	2SC2458
	Q3301	DTC124ES
	D3301–D3304, D3306, D3307	1SS254
	D3305	MTZJ6.8B

COILS AND FILTERS

	L3301	LAU2R2J

SWITCHES AND RELAYS

	S3301–S3309	ASG1051

CAPACITORS

	C3302 (0.047F/5.5V)	ACH1246
	C3305, C3307, C3314, C3316	CEJA010M50
	C3301	CEJA470M16
	C3309–C3311	CKPUYB101K50
	C3313	CKPUYB102K50
	C3304	CKPUYF103Z25
	C3315	CKPUYF223Z25
	C3303	CKPUYF473Z16

RESISTORS

	All Resistors	RD1/6PM□□□J

OTHERS

	CABLE HOLDER (13P)	51063–1305
	CABLE HOLDER (14P)	51063–1405
V3301	FL INDICATOR TUBE	RAW1141
X3301 (4.19MHz)		VSS1028

■ STEREO AMPLIFIER (A–P5500)

MAIN ASSY

SEMICONDUCTORS

	IC3102	BU4052BCF
⚠	IC2016	ICP–N10
	IC2311, IC2401	NJM4558M
	IC2101	PM0006A
	Q2318	2SA1015
	Q2302, Q2307	2SA1048
⚠	Q2011, Q2012	2SB1238X
	Q2013, Q2017	2SB1238X
	Q2303–Q2306, Q2316	2SC2458
	Q2014, Q2312	2SD1858X
	Q2016, Q2301, Q2315, Q2402	DTA124ES
	Q2015, Q2317, Q2319, Q2401	DTC124ES
	D2012, D2015, D2019, D2026	1SS254
	D2304, D2305, D2307–D2312	1SS254
⚠	D2320, D2401, D2402	1SS254
⚠	D2011	D3SBA20 (B)
	D2021	MTZJ10B
	D2020	MTZJ30B
⚠	D2016	MTZJ6.2B
⚠	D2013, D2014, D2018, D2022, D2023	S5688G
⚠	D2027	S5688G

COILS AND FILTERS

	L2201–L2204 (5.3 μ H)	ATH–059

SWITCHES AND RELAYS

	RY2301	ASR7007

CAPACITORS

	C2020 (0.01 μ F/150V)	ACG1005
	C2960, C2961	CCCCH101J50
	C2943–C2946	CCCCH220J50
	C2024	CCCSL101J50
	C2019, C2101, C2102, C2109–C2112	CEAS100M50
	C2118, C2119	CEAS100M50
	C2015, C2016	CEAS220M16
	C2301	CEAS221M16
	C2405, C2406, C2413, C2414	CEAS2R2M50
	C2411, C2412	CEAS470M16
	C2018, C2021	CEAS470M50
	C2013, C2014	CEAS471M16
	C2302	CEJA100M50
	C2303	CFTXA104J50
	C2418	CFTXA184J50
	C2113–C2115	CGCYX104M16
	C2401, C2402, C2901, C2902	CKCYB102K50
	C2920–C2922, C2924, C2925	CKCYB102K50
	C2951, C2952, C2959, C2962	CKCYB102K50
	C2407, C2408	CKCYB152K50
	C2028	CKCYB332K50
	C2120, C2121, C2923	CKCYB471K50
	C2409, C2410	CKCYB562K50
	C2211–C2214	CKCYF473Z50
	C2106, C2108	CQMA102J50
	C2103, C2104	CQMA103J50
	C2117	CQMA562J50
	C2105, C2107	CQMA683J50
	C2011, C2012 (2200 μ F/63V)	RCH1144

RESISTORS

⚠	R2215, R2216	RD1/4PMFL101J
	R2011, R2012	RS2LMFR22J
	Other Resistors	RD1/4PU□□□J

OTHERS

	CABLE HOLDER (5P)	51052–0500
	CABLE HOLDER (12P)	51063–1205
CN2012	FFC CONNECTOR (25P)	52045–2545
CN2099	3P JUMPER CONNECTOR	52147–0310
CN2013	6P JUMPER CONNECTOR	52147–0610
JA3105	4P PIN JACK	AKB7044
CN2101	13P PLUG	KM200IA13
CN2000	SOCKET (11P)	KP250NA11
JA2201	SPEAKER TERMINAL 4–P	RKE1006
JA2001	REMOTE CONTROL JACK	RKN1004
CN2011	SOCKET (18P)	RKP1717
	PCB BINDER	VEF1008
KN2011	EARTH METAL FITTING	VNF1084

Mark	No.	Description	Parts No.
VR ASSY			
SEMICONDUCTORS			
	IC2131		NJM4558M
	Q2134, Q2135		2SA1015
	Q2136, Q2137		2SC1815
COILS AND FILTERS			
	L2951		LAUR22J
CAPACITORS			
	C2910, C2911		CCCSL101J50
	C2144		CEAS220M16
	C2137, C2138		CEASR22M50
	C2143		CGCYX104M16
	C2147, C2148		CKCYB221K50
	C2141, C2142		CKCYF473Z50
	C2145, C2146		CKCYX393M16
RESISTORS			
	VR2131 (100k Ω-Bx2)		RCX1057
	Other Resistors		RD1/6PM□□□J
OTHERS			
	CN2401	SOCKET (13P)	KP200IA13L
CONNECT ASSY			
SEMICONDUCTORS			
⚠	IC2012, IC2013		ICP-N70
CAPACITORS			
	C2022, C2023		CKCYB222K50
OTHERS			
	CABLE HOLDER (12P)		51063-1205
POWER AMP ASSY			
SEMICONDUCTORS			
	IC2201		STK401-090
	Q2213		2SA992
	Q2211, Q2212		2SC1845
CAPACITORS			
	C2216, C2217		CCCCH030C50
	C2907, C2958		CCCSL101J50
	C2209, C2210		CEAS100M63
	C2207, C2208		CEAS101M63
	C2205, C2206		CEAS470M50
	C2201, C2202		CEASR22M50
	C2215		CGCYX104M16
	C2926		CKCYB222K50
	C2203, C2204		CKCYB471K50
	C2908, C2909		CKCYF103Z50
RESISTORS			
⚠	R2209, R2210		RD1/4PMFL101J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	CN2206	11P PLUG	KM250NA11L
⚠	TH2311	THERMISTOR	REX1006

Mark	No.	Description	Parts No.
REG. ASSY			
SEMICONDUCTORS			
⚠	IC2011		NJM78M05FA
H. P ASSY			
CAPACITORS			
	C2904, C2905		CKCYF103Z50
RESISTORS			
	R2213, R2214		RS2LMF331J
OTHERS			
		CABLE HOLDER (5P)	51052-0500
	CN2204	HEADPHONE JACK	AKN1004
AC. CONNECT ASSY			
COILS AND FILTERS			
⚠	L2001		ATF-151
CAPACITORS			
⚠	C2001 (10000pF/250V)		ACG7020
OTHERS			
	H2003, H2004	FUSE CLIP	AKR1003
DISPLAY ASSY			
SEMICONDUCTORS			
	IC2502-IC2504		NJM4558M
	IC2501		PDC033A
	Q2502, Q2506, Q2507		2SC2458
	Q2504		DTA124ES
	Q2501, Q2503, Q2505		DTC124ES
	D2501, D2503, D2505-D2507		1SS254
	D2601-D2605		1SS254
	D2508, D2509		MTZJ6.2B
	D2502		SLR-342VRT31
COILS AND FILTERS			
	L2501		LAU101J
SWITCHES AND RELAYS			
	S2501-S2509		ASG1051
CAPACITORS			
	C2504		CEJA010M50
	C2507		CEJA220M50
	C2503		CEJAR22M50
	C2505		CFTXA224J50
	C2509		CKPUYB101K50
	C2506, C2613, C2614		CKPUYB471K50
	C2603, C2606		CKPUYF103Z25
	C2604, C2605		CKPUYF223Z25
	C2501, C2508, C2601, C2602, C2609		CKPUYF473Z16
	C2612, C2615		CKPUYF473Z16
	C2610, C2611		CKPUYX152M16
	C2607, C2608		CKPUYX472M16
RESISTORS			
	All Resistors		RD1/6PM□□□J

Mark	No.	Description	Parts No.
	OTHERS		
	CN2501	FFC CONNECTOR (25P)	52044-2545
		REMOTE RECEIVER UNIT	GP1U27X
	V2501	FL INDICATOR TUBE	RAW1149
	X2501 (6.00MHz)		VSS1045
	REC. OUT ASSY		
	SEMICONDUCTORS		
	IC2801		NJM4558M
	Q2801, Q2802		2SD2144S
	CAPACITORS		
	C2809, C2810		CEAS100M50
	RESISTORS		
	All Resistors		RD1/6PM□□□J
	OTHERS		
	CN2801	2P PIN JACK	AKB7010
	■ STEREO DOUBLE CASSETTE DECK (CT-P5500WR)		
	TC. MAIN ASSY		
	SEMICONDUCTORS		
	IC1101		BU4066BCF
	IC1201		CXA1101P
⚠	IC1021, IC1022		ICP-N38
	IC1202, IC1401		NJM4558DX
	IC1102, IC1301		NJM4558M
⚠	IC1001		NJM7806FA
⚠	IC1002		NJM7906FA
	IC1701		PD6167A
	Q1001, Q1004		2SA1048
⚠	Q1503		2SB1238X
	Q1854		2SB1425
	Q1002, Q1003, Q1101, Q1102		2SC2458
	Q1252-Q1255, Q1301, Q1302		2SC2458
	Q1771, Q1772		2SC2458
	Q1501, Q1502, Q1504		2SD1302
⚠	Q1807, Q1857		2SD1858X
	Q1303, Q1304, Q1481, Q1482		2SD2144S
	Q1151, Q1152		2SK373
	Q1305, Q1483, Q1506, Q1761-Q1764		DTA124EK
⚠	Q1812		DTA124EK
	Q1852		DTA124EK
	Q1751-Q1754		DTA124ES
	Q1181-Q1184, Q1505, Q1765, Q1855		DTC124EK
	Q1755		DTC124ES
	D1151-D1156, D1181, D1182		1SS254
	D1251, D1252, D1401, D1402		1SS254
	D1761, D1762, D1802-D1805		1SS254
	D1852-D1854, D1856, D1858, D1860		1SS254
	D1857		MTZJ3.0B
⚠	D1001-D1005, D1801, D1851		S5688G
	COILS AND FILTERS		
	L1951		LAU010J
	L1851		LAU470J
	L1502		LFA222J
	L1301, L1302		LTA103J
	L1181, L1182		LTA562J
	L1303, L1304 [3.3mH (252kHz)]		RTF1019
	F1201, F1202		RTF1208
	TRANSFORMERS		
	T1501		ATX-043
	CAPACITORS		
	C1509, C1510		CCCSL101K500
	C1301, C1302		CCCSL221K500
	C1151, C1152		CCSQCH100D50
	C1953, C1954		CCSQCH101J50
	C1253, C1254		CCSQCH151J50
	C1401, C1403		CCSQCH560J50
	C1303, C1304		CCSQSL681J50
	C1103, C1104		CEANL100M16
	C1008, C1183, C1184, C1217, C1218		CEAS010M50
	C1251, C1283, C1284, C1317, C1318		CEAS010M50
	C1219, C1252, C1402, C1507, C1771		CEAS100M50
	C1211, C1212		CEAS101M10
	C1003, C1004		CEAS222M16
	C1305, C1306		CEAS2R2M50
	C1007, C1105, C1106, C1109, C1110		CEAS330M16
	C1281, C1282, C1311, C1312		CEAS330M16
	C1319, C1320, C1505, C1506, C1701		CEAS330M16
	C1005, C1006, C1009, C1010		CEAS471M10
	C1203, C1204, C1215, C1216		CEAS4R7M50
	C1213, C1214		CEASR68M50
	C1209, C1210, C1503, C1504		CFTXA103J50
	C1501		CFTXA123J50
	C1502		CFTXA152J50
	C1113, C1114		CFTXA681J50
	C1107, C1108		CFTXA682J50
	C1307, C1308		CFTXA823J50
	C1001, C1002, C1020, C1021		CKCYF473Z50
	C1121, C1951, C1952, C1955-C1958		CKSQYB102K50
	C1960-C1965, C1971, C1972		CKSQYB102K50
	C1703, C1772		CKSQYB103K50
	C1404		CKSQYB104K25
	C1309, C1310		CKSQYB182K50
	C1313-C1316		CKSQYB333K25
	C1181, C1182		CKSQYB391K50
	C1101, C1102		CKSQYB561K50
	C1111, C1153, C1154		CKSQYB681K50
	C1702		CKSQYF473Z50
	C1511		CQPA162J100
	RESISTORS		
	VR1181-VR1184, VR1301, VR1302 (22k Ω)		RCP1046
	VR1501, VR1502 (220k Ω)		RCP1049
	VR1851 (3.3k Ω)		RCP1089
⚠	R1501		RD1/2LMF010J
	R1505		RD1/2VM121J
	R1504		RD1/2VM4R7J
	R1506		RD1/2VM680J
	R1203, R1204		RD1/4MUF223J
	R1951, R1952		RD1/6PM391J
	R1119, R1120, R1212, R1214		RD1/6PM820J
	R1321, R1322		RD1/6PM820J
	Other Resistors		RS1/10S□□□J

Mark	No.	Description	Parts No.
OTHERS			
		CABLE HOLDER (9P)	51063-0905
		CABLE HOLDER (15P)	51063-1505
	CN1701	13P JUMPER CONNECTOR	52147-1310
	CN1103	2P TOP POST	B2B-EH
	CN1702, CN1703	KR CONNECTOR	B2B-PH-K-S
	CN1102	3P TOP POST	B3B-EH
	CN1101	3P TOP POST (RED)	B3B-EH-R
	CN1001	SOCKET (18P)	RKP1717
		PCB BINDER	VEF1008
	KN1001	EARTH METAL FITTING	VNF1084
	X1701 (4.19MHz)		ASS1022
TC. FUNC ASSY			
SEMICONDUCTORS			
	D1901-D1903		1SS254
	D1908		SLR-332VRT31
	D1904, D1906, D1907		SLR-342MCT31
	D1905		SLR-342YCT31
SWITCHES AND RELAYS			
	S1901-S1909		ASG1051
RESISTORS			
	All Resistors		RD1/6PM□□□J
TC HALF1 ASSY			
SEMICONDUCTORS			
	D1951-D1953		SLR-342MCT31
OTHERS			
	J1702	CONNECTOR ASSY (2P)	RKP1510
TC HALF2 ASSY			
SEMICONDUCTORS			
	D1961-D1963		SLR-342MCT31
OTHERS			
	J1703	CONNECTOR ASSY (2P)	RKP1510
■ COMPACT DISC PLAYER (PD-P5500)			
CD. MAIN ASSY			
SEMICONDUCTORS			
	IC151		CXA1372Q
	IC301		CXD2508AQ
⚠	IC22		ICP-N10
⚠	IC201		LA6517
⚠	IC202		LA6520
	IC401		NJM4558DX
⚠	IC11		NJM78M05FA
	IC351		PD4706A
	Q11		2SB1237X
	Q12		2SC2458
	Q433, Q434		2SD2144S
	Q431, Q432		DTA124EK
	Q351		DTC124EK
	D201		MTZJ6.8B
⚠	D11-D14		S5688G

Mark	No.	Description	Parts No.
COILS AND FILTERS			
	L301		LAU1R2J
	L951		LAU2R2J
CAPACITORS			
	C310		CCSQCH100D50
	C165		CCSQCH102J50
	C403, C404, C409, C410		CCSQCH121J50
	C312		CCSQCH220J50
	C405-C408		CCSQCH271J50
	C401, C402		CCSQCH391J50
	C26		CEAS010M50
	C351		CEAS330M16
	C22		CEAS331M16
	C21		CEAS332M16
	C23, C25		CEAS471M6R3
	C156, C158, C411, C412		CEAS4R7M50
	C354		CEASR22M50
	C309		CEASR47M50
	C11, C12		CKCYF103Z50
	C385, C951		CKSQYB102K50
	C153, C160, C161, C163, C201		CKSQYB103K50
	C308		CKSQYB103K50
	C154, C155, C157, C159		CKSQYB104K25
	C211, C212		CKSQYB104K25
	C306, C413, C414		CKSQYB152K50
	C164, C386		CKSQYB332K50
	C152, C162		CKSQYB333K25
	C166		CKSQYB472K50
	C307		CKSQYB473K25
	C151		CKSQYB561K50
	C311		CKSQYF102Z50
	C167, C171, C172, C241-C245		CKSQYF103Z50
	C305, C314, C353, C355		CKSQYF103Z50
	C320, C421, C422		CKSQYF104Z25
	C13		CKSQYF473Z50
	C304		CKSYF105Z16
RESISTORS			
	VR151, VR152 (22kΩ)		RCP1046
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN151	FPC CONNECTOR (12P)	12FMZ-ABT
	CN201	MT CONNECTOR (4P)	173981-4
	CN202	6P JUMPER CONNECTOR	52147-0610
	CN351	13P JUMPER CONNECTOR	52147-1310
	CN11	SOCKET (15P)	AKP1090
	X301 (33.8688MHz)		ASS7000
	CN301	6P TOP POST	B6P-SHF-1AA
	JA301	OPTICAL OUTPUT JACK	TOTX178
		PCB BINDER	VEF1008
	KN310	EARTH METAL FITTING	VNF1084
	X351 (4.19MHz)		VSS1028
CD. FUNC1 ASSY			
SEMICONDUCTORS			
	Q501-Q505		DTC143EK
	D501-D503		1SS254
	D515		SLR-332VRT31
	D511-D514, D516-D519		SLR-342MCT31

Mark	No.	Description	Parts No.
SWITCHES AND RELAYS			
	S502, S503, S505, S506		ASG1051
RESISTORS			
	All Resistors		RS1/10S□□□J
CD. FUNC2 ASSY			
SWITCHES AND RELAYS			
	S501, S504, S507		ASG1051
SENSOR PCB ASSY			
SEMICONDUCTORS			
	Q601, Q602		PS3062
RESISTORS			
	All Resistors		RD1/6PM□□□J
LED PCB ASSY			
SEMICONDUCTORS			
	D601, D602		AN306
RESISTORS			
	All Resistors		RD1/6PM□□□J
SW PCB ASSY			
SWITCHES AND RELAYS			
	S601		DSG1017
MOTOR PCB ASSY			
MOTOR PCB Assy has no service part.			
MECHANISM BOARD ASSY			
SWITCHES AND RELAYS			
	S610		DSG1016
OTHERS			
	CN610	MT CONNECTOR (4P)	173979-4

5. ADJUSTMENTS

5.1 STEREO TUNER SECTION (F-P5500RDS)

■ 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, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98	80	98MHz	L6207	Adjust so that the DC voltage between IC6201–Pin 4 and Pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sensitivity Adjustment	106	Low Input (0 to 30)	106MHz	L6104 L6105 L6102 T6101	After adjusting L6104 and L6105 so that the DC voltage between IC6201–Pin12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (±2dB)	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 and between L6103 and L6104. 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 →FM.*
- *Adjustment sequence: L6104 → L6105 → L6102 → T6101*

■ 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 (dBμV/m)			
1	TUNED IND. Lighting Level	999 *1	47 (±2dB)	999kHz *1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

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

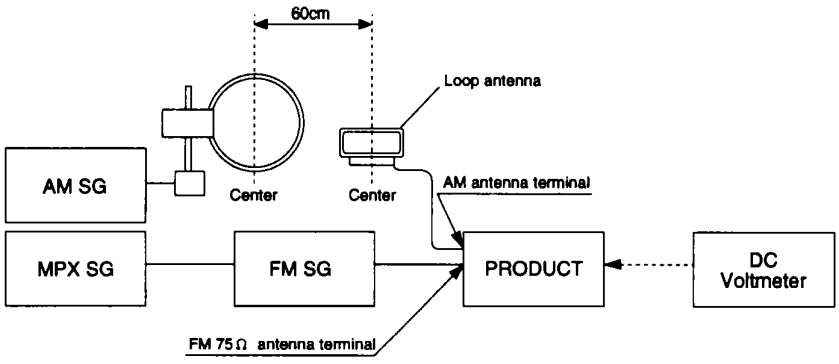


Fig. 1–1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE (AXQ7014)

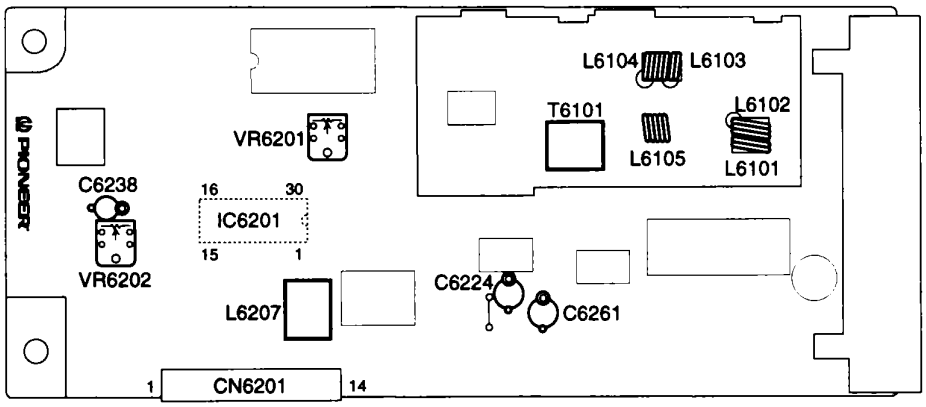


Fig. 1–2 Adjustment Points

■ RDS Adjustment

- Setting the RDS-Signal generator (*1).
- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1–3.

*Note *1: Audio Main 1 kHz, 85%*
Pilot 10% RDS 1.6%
SK 4.7%

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	RDS (BPF) Level	88	60	88 MHz	VR3201	Adjust so that the Waveform of TP3201 (RDS test point) becomes at maximum. (Photo 1)

Note: Entry into RDS mode is done by switching to the FM band and entering an RDS signal from FM (RDS) SG to the FM 75 Ω antenna terminal.

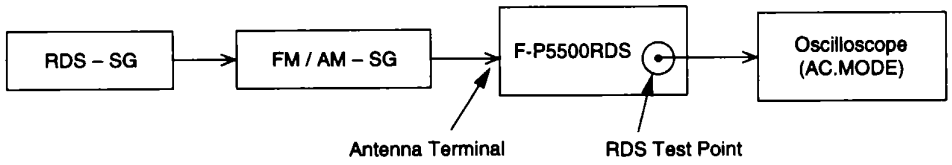


Fig. 1–3 RDS Adjustment Wiring Diagram

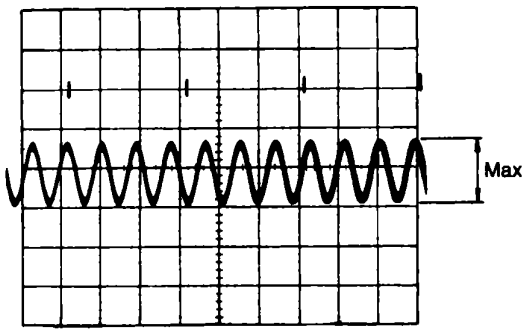


Photo 1

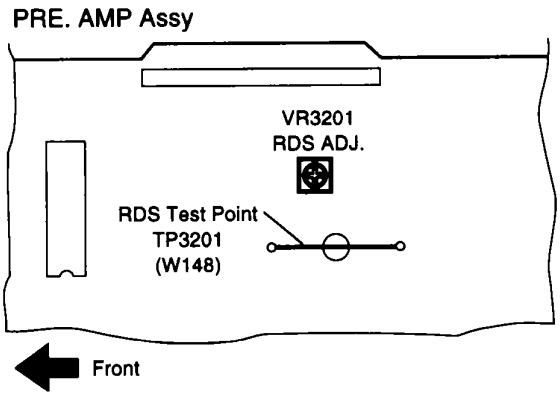


Fig. 1–4 Adjustment Points

5.2 STEREO DOUBLE CASSETTE DECK SECTION (CT-P5500WR)

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

1. Test Mode

(1). Test mode outline

The test modes are the test mode 1 for execution of special operations and the test mode 2 with MUTE operation in the same way as for a single cassette deck.

(2). Test mode 1

■ Entry into test mode 1

Switch on the power supply while short-circuit the jumper wires JP1 and JP2 in the TC. MAIN assy (refer to Fig. 2–4), and afterwards disconnect the jumper wires.

■ Operation in test mode 1

- The REC LED flashes during test mode 1.
- Flashing of the I/II KEY SEL indication shows the operating mechanism.
- LINE MUTEopens in the same way as for the single cassette deck also during REC and REC PAUSE.
- The mechanism can operate independent of the presence or absence of tape.
- When the tape type detection switch for the mechanism on the side where the I/II KEY SEL indication does not flash is set to ON, the I/II KEY SEL for that side will light.

■ Cancellation method for test mode 1

When the ASES/COPY key is pressed twise with both mechanisms in STOP condition, test mode 1 is cancelled and normal operation will be executed.
However, when this key is pressed once, the mode shifts from test mode 1 to test mode 2.

(3). Test mode 2

■ Entry into test mode 2

Press the ASES/COPY key once in the test mode 1 with both mechanisms in STOP condition.

■ Operation in test mode 2

- The REC LED flashes. (The flashing is more rapid than in test mode 1).
- In REC and REC PAUSE condition, LINE MUTE opens in the same way as for the single cassette deck.

Otherwise, normal operation and indication are executed.

■ Cancellation method for test mode 2

Press the ASES/COPY key or switch off the power supply.

2. Mechanical Adjustment

- Please execute this adjustment in test mode 1.
- Test tape: STD–301 (3 kHz, 30 min).
- The ground at the time of adjustment shall be W207 (refer to Fig. 2–4).

1. Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck II PLAY	STD–301 (Playback: 3kHz)	TC. MAIN Assy VR1851	CN1001-Pin15 (L) or Pin16 (R) (TC. MAIN Assy)	Set the test tape to mechanism unit II, press the PLAY SW and adjust so that the reading becomes 3000Hz ±5Hz.	

3. Electrical Adjustment

- Please execute this adjustment in test mode 2.
- The ground at the time of adjustment shall be W207 (refer to Fig. 2–4).

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. When A-P5500 and F-P5500RDS are not connected to CN1001, connect load resistors of 22kΩ each (21kΩ to 23kΩ) to pin 15 and pin 16.
5. 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
6. Provide yourself with the following measuring devides:
   - AC millivoltmeter
   - Low-frequency oscillator
   - Attenuator
   - Oscilloscope
7. Adjust both right and left channels unless otherwise specified.
8. Turn the DOLBY NR switch off unless otherwize specified.
9. 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.
10. 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. Recording Bias Adjustment
2. Recording Level Adjustment

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

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

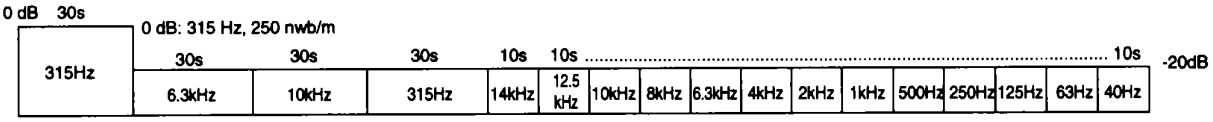


Fig. 2–1 STD–331E Test Tape

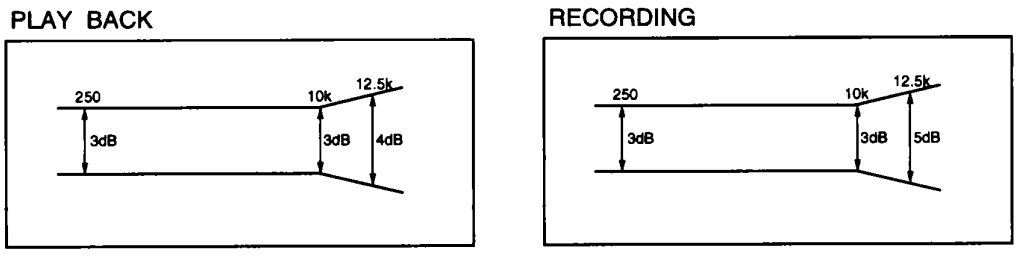


Fig. 2–2 Frequency Characteristics

■ Before Adjustment

Removal of the azimuth covers (L) and (R)

1. Open the door panels (L) and (R).
2. Press the section Ⓐ (recessed part) on the inside of the door panels (L) and (R) with a flat screwdriver as shown in the figure.
3. Confirm that the azimuth covers (L) and (R) have come a little to the front, and then close the door panels (L) and (R).
4. Insert a flat screwdriver at the lower side of the azimuth covers (L) and (R) and pull them to the front.

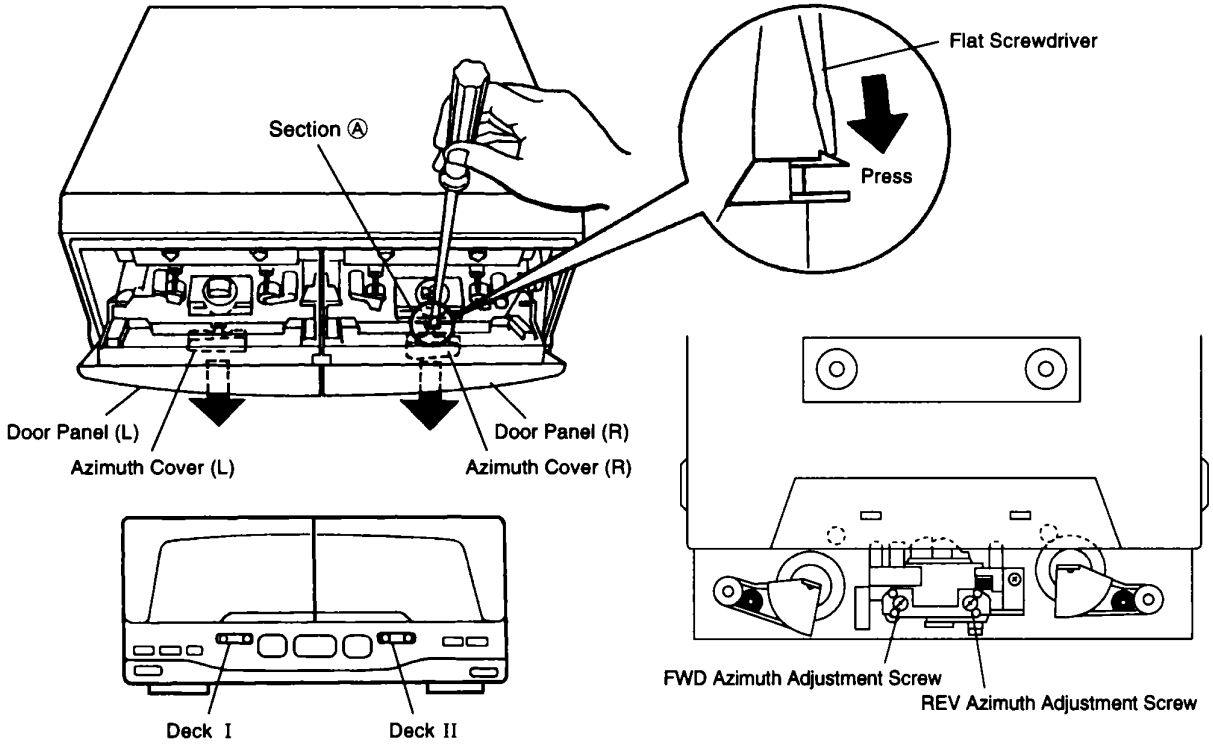


Fig. 2–3 Head Azimuth Adjustment

■ 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)	CN1001 Pin15 (L) or Pin16 (R) (TC. MAIN 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	VR1181 (Lch) VR1182 (Rch)	TP1 (L ch) TP2 (R ch) (TC. MAIN Assy)	– 11.2 dBV	
				Deck II	VR1183 (Lch) VR1184 (Rch)			

■ Recording Adjustment

1. Recording Bias Adjustment

- After the adjustment, caution should be exercised so as not to become under bias by checking the distortion rate.

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC/ PAUSE	Input a 315Hz signal to the MD/CD II terminal and set the input selector to MD/CD II.	Input signal level		CN1001 Pin15 (L) and Pin16 (R) (TC. MAIN Assy)	– 26.0 dBV	
2	NORMAL	REC→ PLAY	Load the STD–631 test tape and record/playback the 315Hz and 10kHz signals. (see the Note below)	Deck I	——		Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.	
				Deck II	VR1501 (Lch) VR1502 (Rch)			

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

2. Recording Level Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	NORMAL	REC/ PAUSE	Input a 315Hz signal to the MD/CD II terminal and set the input selector to MD/CD II.	Input signal level		TP1 (L ch) TP2 (R ch) (TC. MAIN Assy)	– 11.2 dBV	
2	NORMAL	REC→ PLAY	STD–631 test tape and record/ playback the 315Hz signal.	Deck I	——		Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes –11.2dBV.	
				Deck II	VR1301 (Lch) VR1302 (Rch)			

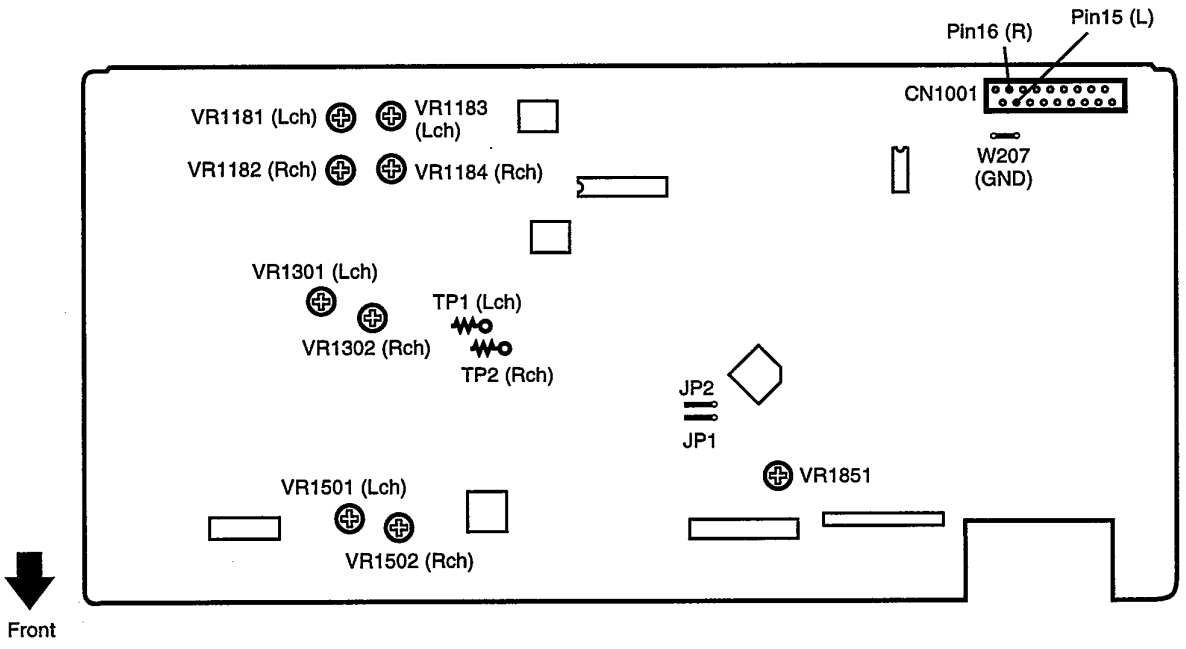
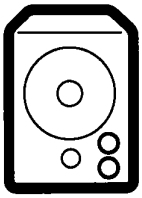
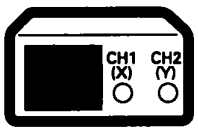
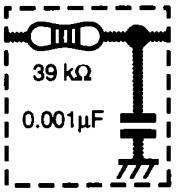


Fig. 2–4 Adjustment and Measurement Points

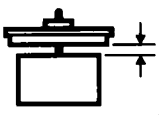
5.3 CD SECTION (PD-P5500) (CD部の調整)

1. PREPARATIONS (準備)

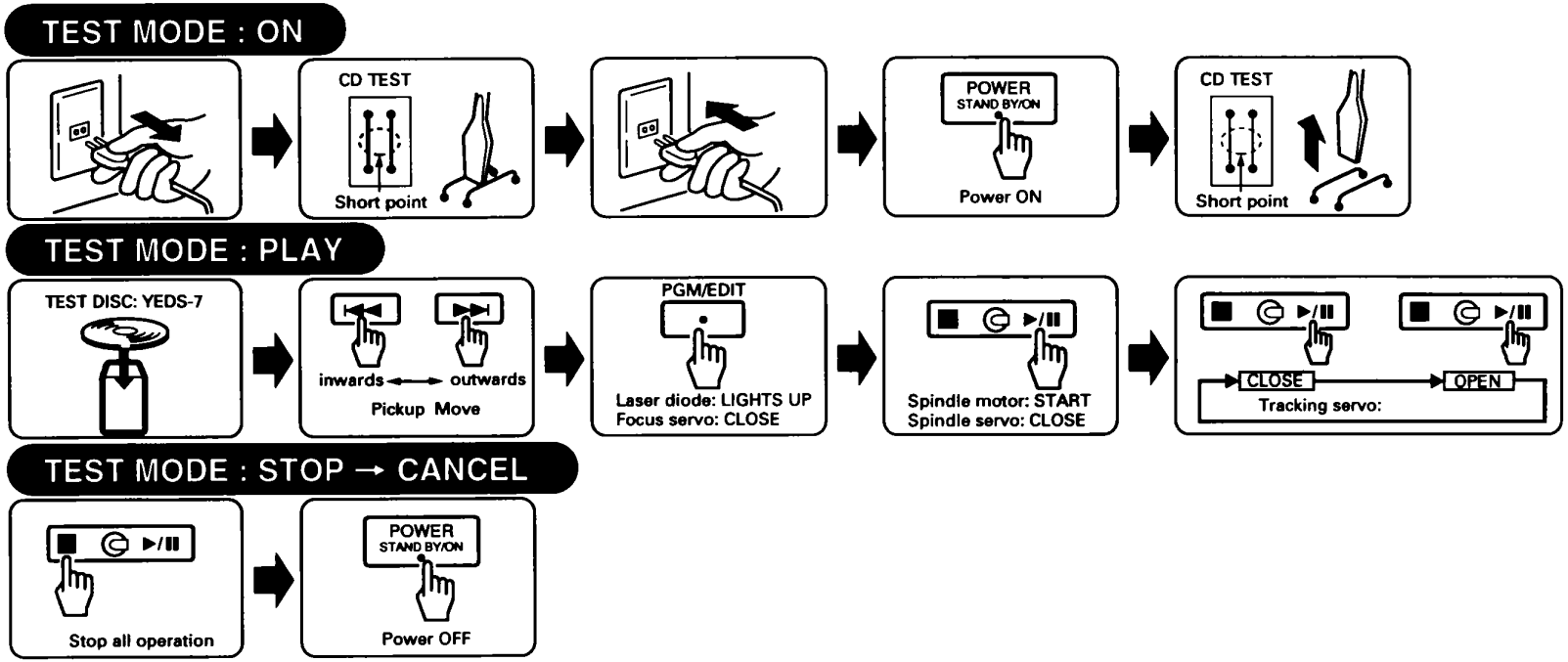
1.1 Jigs and Measuring Instruments (使用測定器/治工具類)

 8-cm DISC (With at least about 20 minutes recording) (20分程度信号の入ったディスク)	 CD TEST DISC (YEDS-7)	 ⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)
 Ball point hexagon wrench (size: 1.5mm) GGK1002 ボールポイント付 六角ドライバー(対辺 1.5mm)	 ⊕ screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39 kΩ + 0.001μF)

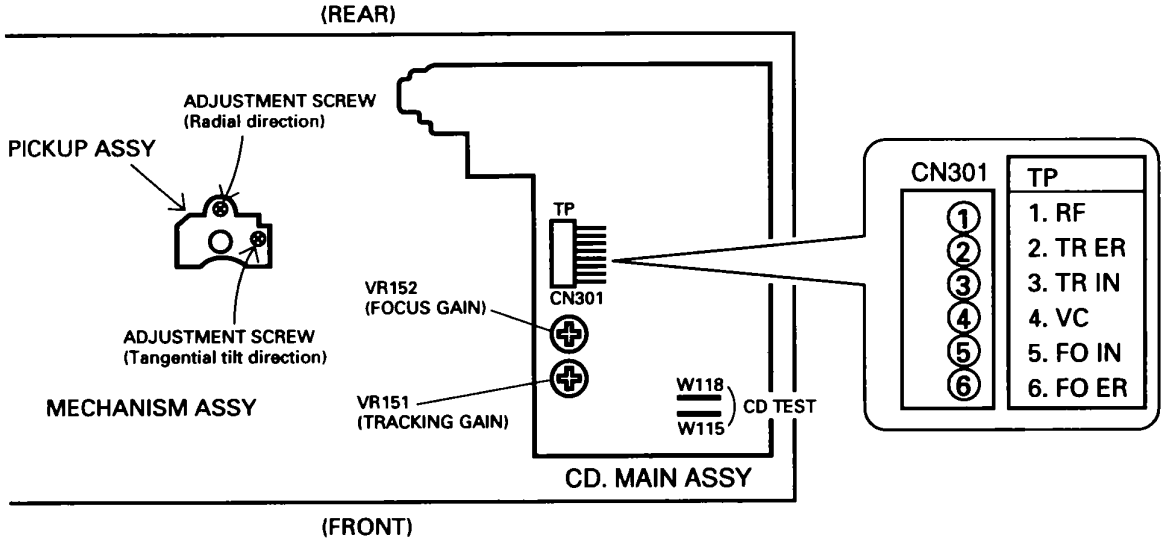
1.2 Necessary Adjustment Points (調整に必要な項目)

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 61～63
Exchange CD. MAIN ASSY (CD. MAIN ASSYを交換した時)	1.2.3.4.5.6. → Page 61～63
Exchange SERVO MECH ASSY (サーボメカ ASSYを交換した時)	1.2.3.4.5.6. → Page 61～63
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	 ADJ → Page 17

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

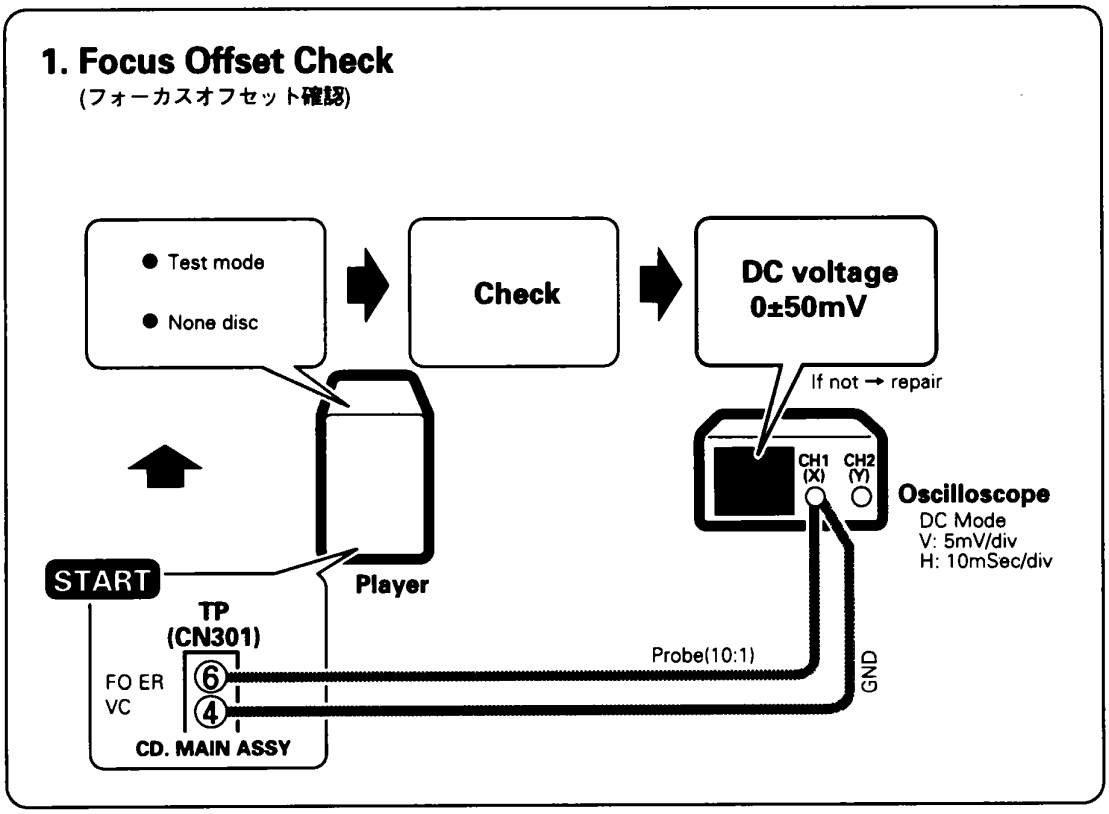


2.2 Adjustment Locations （テストポイントと調整用VRの位置）

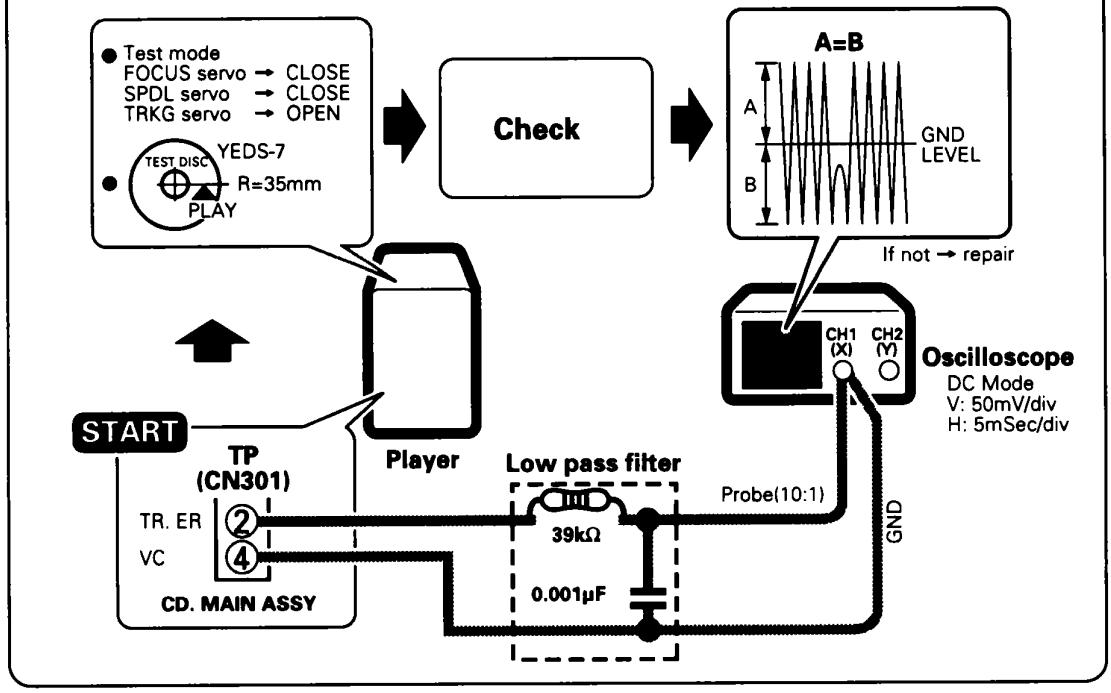


2.3 Check and Adjustment (確認、調整)

1. Focus Offset Check
(フォーカスオフセット確認)

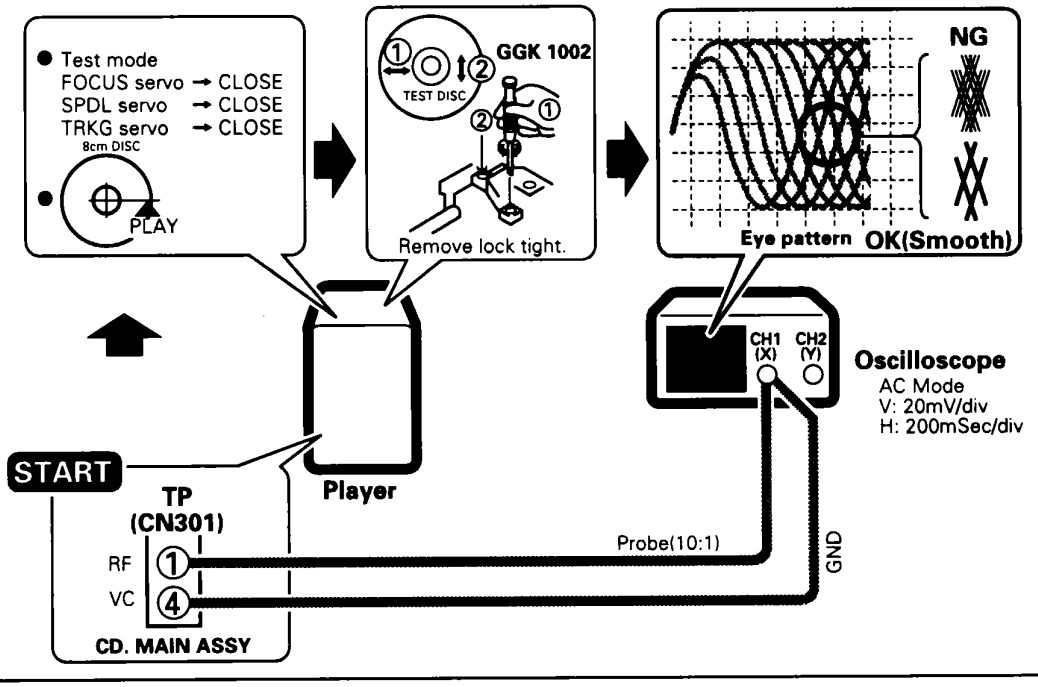


2. Tracking Error Balance Check
(トラッキングエラーバランス確認)



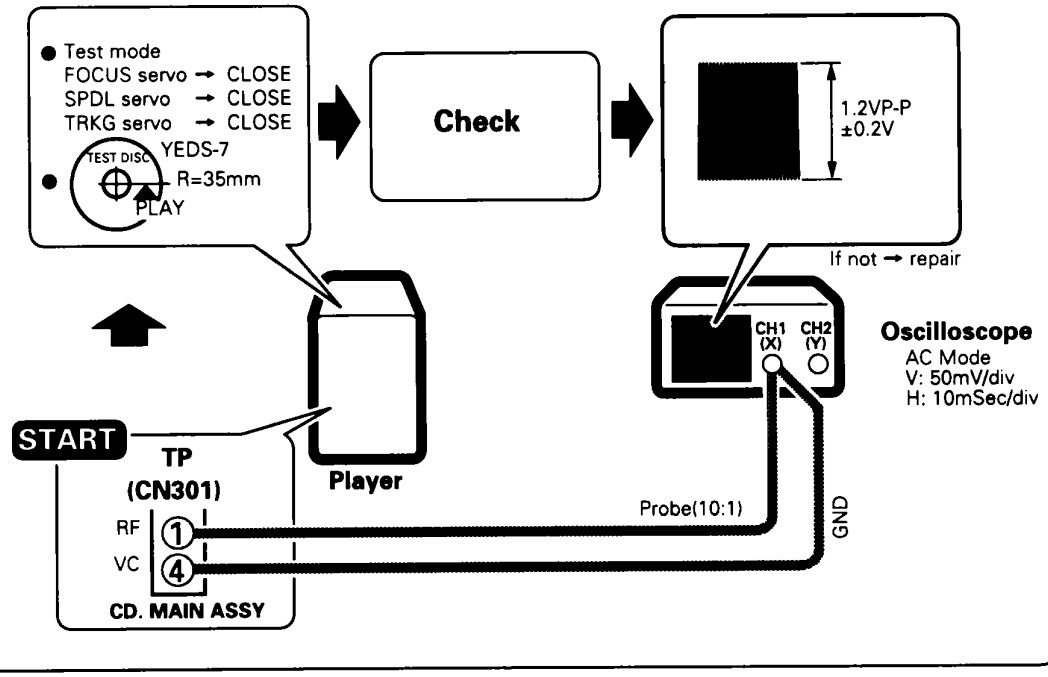
3. Pickup ①Radial / ②Tangential Direction Tilt Adjustment

(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)

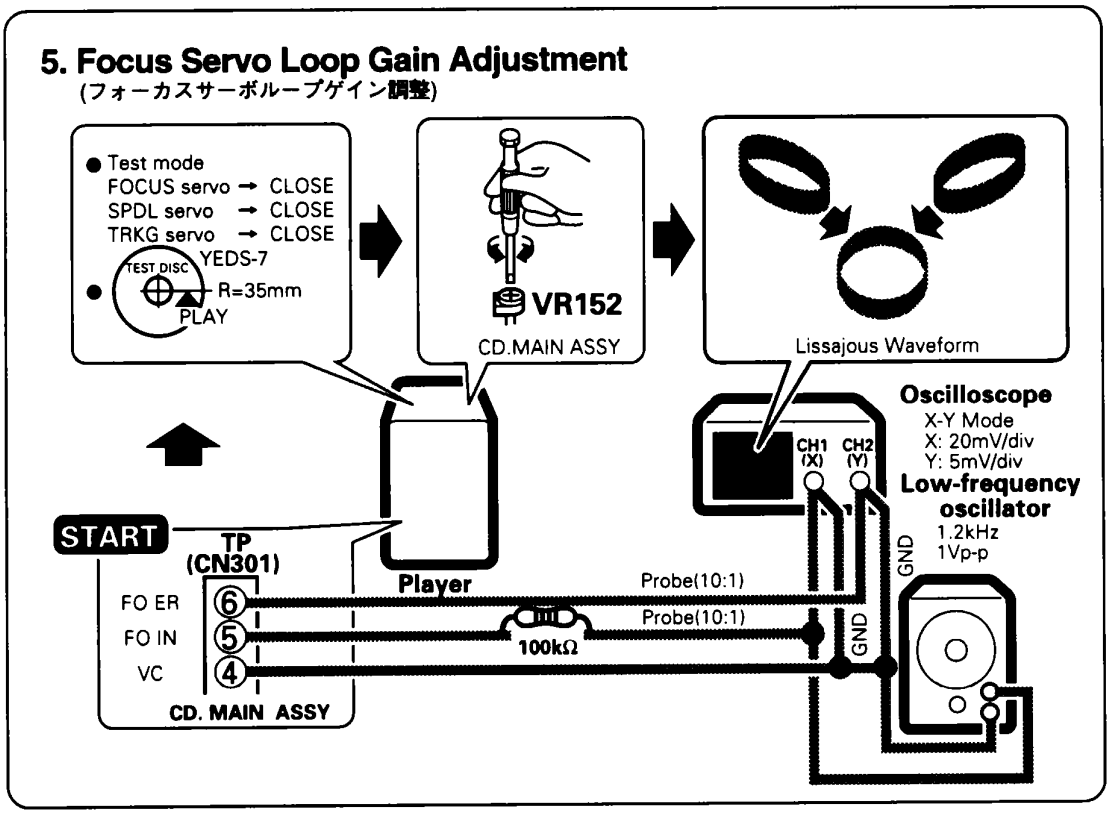


4. RF Level Check

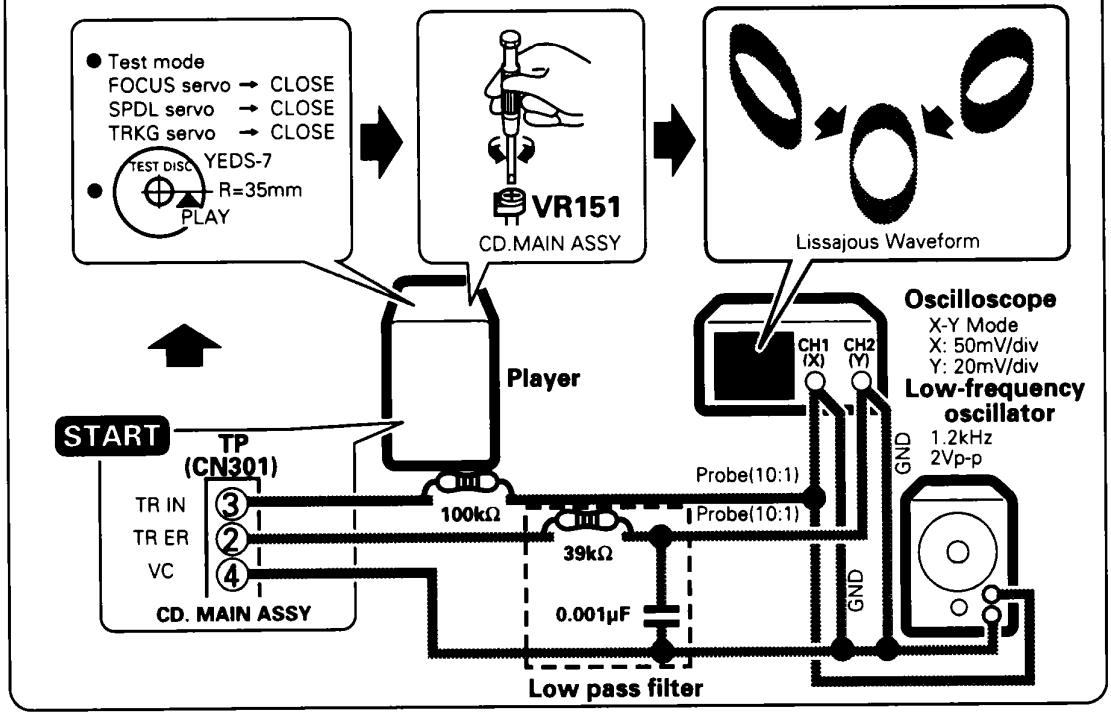
(RFレベル確認)



5. Focus Servo Loop Gain Adjustment
(フォーカスサーボループゲイン調整)



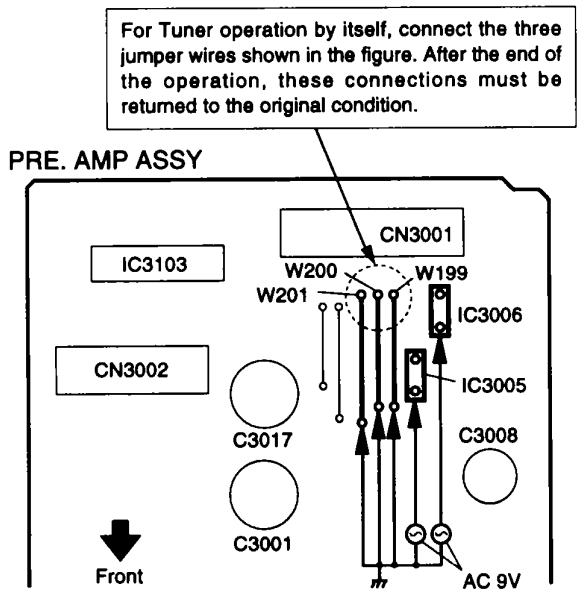
6. Tracking Servo Loop Gain Adjustment
(トラッキングサーボループゲイン調整)



6. SINGLE OPERATION METHOD

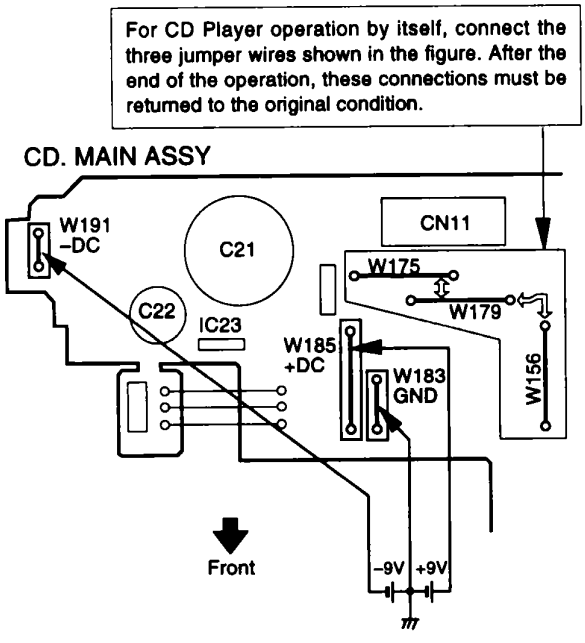
- As this product is a system product, operation with assembled components.
- When single operation can not be avoided, supply power etc. according to the following method.
  The Stereo amplifier (A–P5500) operates by itself.

6.1 STEREO TUNER (F-P5500RDS)



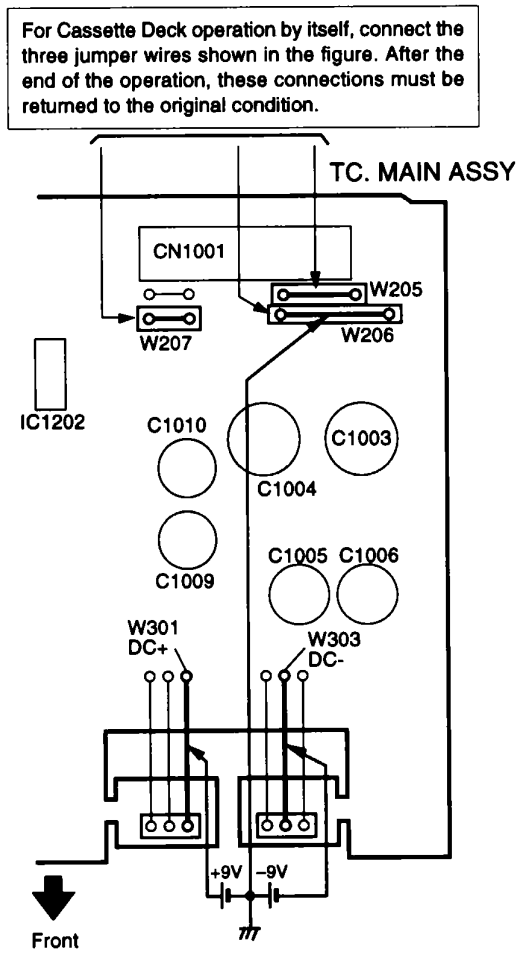
Provide the above potentials to the jumper wires of the figure.

6.2 COMPACT DISC PLAYER (PD-P5500)



Provide the above potentials to the jumper wires of the figure.

6.3 STEREO DOUBLE CASSETTE DECK (CT-P5500WR)



Provide the above potentials to the jumper wires of the figure.

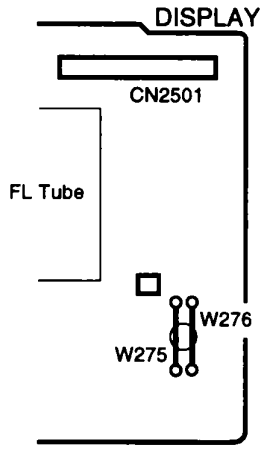
6.4 STEREO AMPLIFIER (A-P5500)

■Use of Service Mode

This is used to check external input (MD/CD2, PHONO) for the amplifier by itself.

How to enter the service mode

1. With the plug pulled from the power outlet, short-circuit (W275 and W276) the service terminal on the DISPLAY assy.



2. Maintain the condition of "1" and supply AC power. The power will be switched on automatically and the function will become MD/CD2. The present function status will be displayed in the 7-segment time column of the front FL.
3. After power ON, remove the terminal short-circuit bridge. (Otherwise key operation can not be executed.)
4. The function status can be changed by body key operation. The relation between key operation and FL display is shown in Table 1.

KEY	Mode	Indication	FUNC A	FUNC B
[WAKE UP]	MD/CD2	Au	H	L
[TIMER REC]	PHONO	PH	H	H
[+]	DECK	dE	L	L
[-]	CD(TX)	Cd	L	H

Table 1 Front Panel Key Operation and Function Mode

The other front keys [SFC], [P. BASS] and [ST WIDE] operate normally.

Service mode cancellation

Switch off the power once and then switch is on again normally. The function set in service mode remains memorized until the plug is pulled out of the power outlet.

Notes)

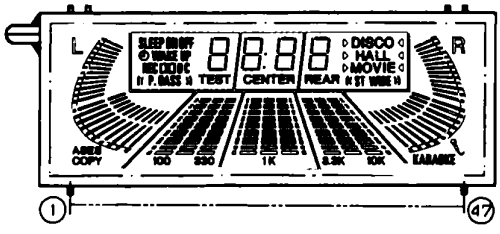
1. *Always use this mode only for the amplifier by itself. (System operation does not operate normally.)*
2. *After cancellation of service mode according to the above method, the FL indication becomes DISPLAY OFF mode (the mode where the spectrum analyzer and the level meter part are not displayed).*
   For display of spectrum analyzer and level meter, push the [+] key of the unit in POWER-OFF condition to switch the DISPLAY mode.

7. FL INFORMATION

■ RAW1149 [V2501: DISPLAY ASSY (A-P5500)]

● FL Indicator Tube

●Pin Assignment

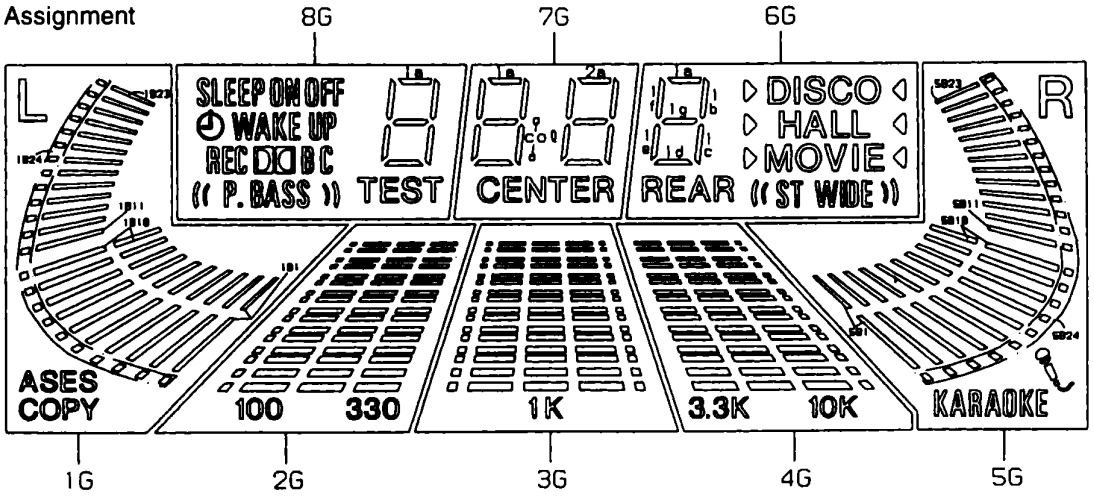


NOTE 1] F1, F2 Filament
2] NP No pin
3] NC No connection
4] DL Datum Line
5] 1G~8G Grid

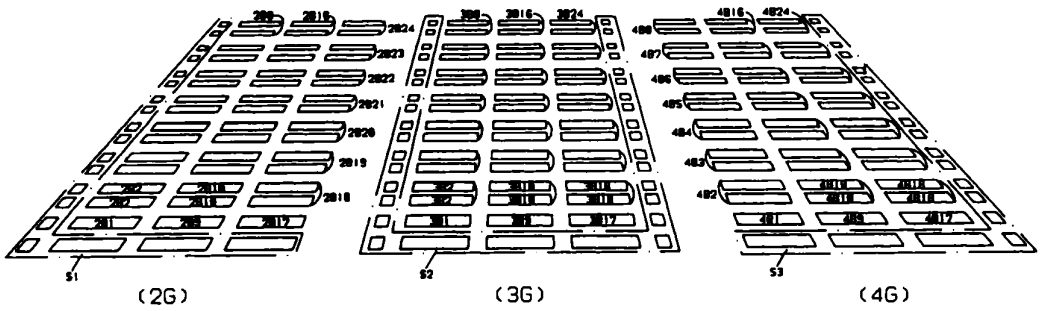
●Pin Connection

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
CONNECTION	F1	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	NC	NC	1G	2G	3G	4G	5G	6G	7G	8G	P23	P24	P25	P26	P27	NP	NP	F2	F2	F2

●Grid Assignment



●Segment Assignment



●Anode Connection

	1G	2G	3G	4G	5G	6G	7G	8G
P1	L	2B8	3B8	4B8	R	1a	1a	1a
P 2	1B1	2B16	3B16	4B16	5B1	1b	1b	1b
P 3	1B2	2B24	3B24	4B24	5B2	1f	1f	1f
P 4	1B3	2B7	3B7	4B7	5B3	1g	1g	1g
P 5	1B4	2B15	3B15	4B15	5B4	1c	1c	1c
P 6	1B5	2B23	3B23	4B23	5B5	1e	1e	1e
P 7	1B6	2B6	3B6	4B6	5B6	1d	1d	1d
P 8	1B7	2B14	3B14	4B14	5B7	REAR	2a	TEST
P 9	1B8	2B22	3B22	4B22	5B8	▷ (DISCO) ◁	2b	SLEEP
P10	1B9	2B5	3B5	4B5	5B9	DISCO	2f	ON
P11	1B10	2B13	3B13	4B13	5B10	▷ (HALL) ◁	2g	OFF
P12	1B11	2B21	3B21	4B21	5B11	HALL	2c	⏲
P13	1B12	2B4	3B4	4B4	5B12	▷ (MOVIE) ◁	2e	WAKE UP
P14	1B13	2B12	3B12	4B12	5B13	MOVIE	2d	REC
P15	1B14	2B20	3B20	4B20	5B14	((ST WIDE))	co0	DIG
P16	1B15	2B3	3B3	4B3	5B15	(ST WIDE)	CENTER	B
P17	1B16	2B11	3B11	4B11	5B16	-	-	C
P18	1B17	2B19	3B19	4B19	5B17	-	-	(P.BASS)
P19	1B18	2B2	3B2	4B2	5B18	-	-	(P.BASS)
P20	1B19	2B10	3B10	4B10	5B19	-	-	-
P21	1B20	2B18	3B18	4B18	5B20	-	-	-
P22	1B21	2B1	3B1	4B1	5B21	-	-	-
P23	1B22	2B9	3B9	4B9	5B22	-	-	-
P24	1B23	2B17	3B17	4B17	5B23	-	-	-
P25	1B24	S1	S2	S3	5B24	-	-	-
P26	ASES	100 330	1K	3.3K 10K	KARAOKE	-	-	-
P27	COPY	-	-	-	-	-	-	-

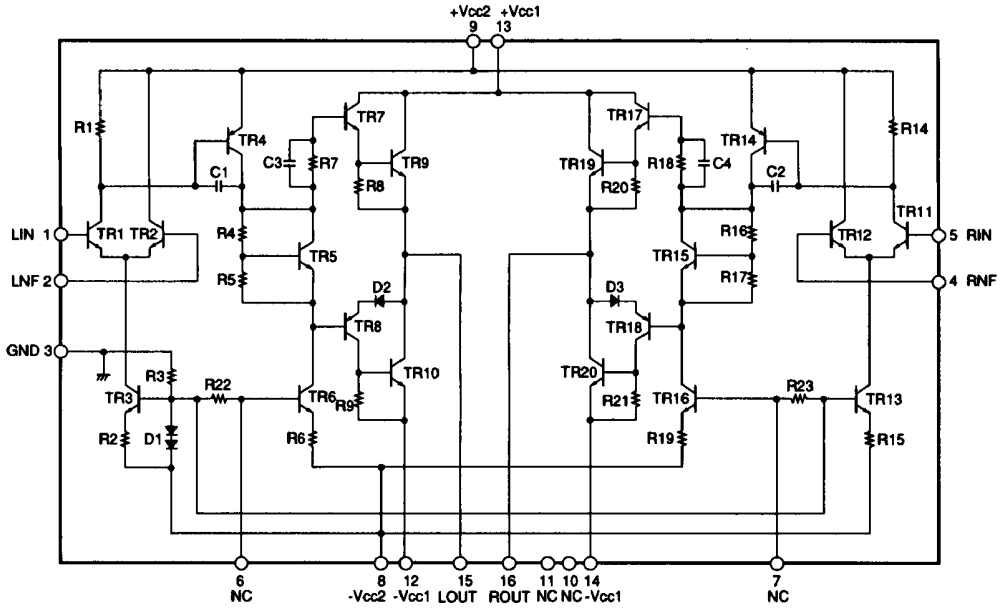
8. IC INFORMATION

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

■ STK401-090 [IC2201 : POWER AMP ASSY (A-P5500)]

● 2-ch AF Power Amplifier

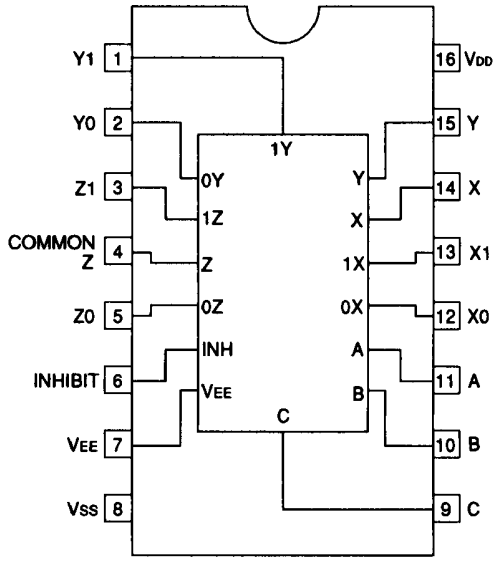
● Block Diagram



■ BU4053BC [IC3103 : PRE. AMP ASSY (F-P5500RDS)]

● Triple 2-ch Analog Multiplexer

● Block Diagram (Top view)

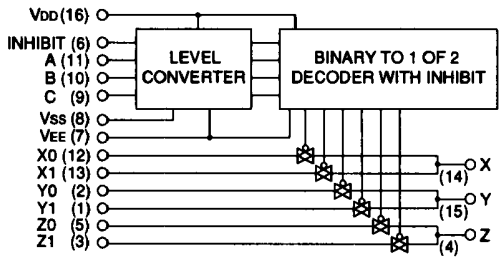


● Truth Table

INHIBIT	A	B	C	ON SWITCH
L	L	L	L	X0 Y0 Z0
L	H	L	L	X1 Y0 Z0
L	L	H	L	X0 Y1 Z0
L	H	H	L	X1 Y1 Z0
L	L	L	H	X0 Y0 Z1
L	H	L	H	X1 Y0 Z1
L	L	H	H	X0 Y1 Z1
L	H	H	H	X1 Y1 Z1
H	X	X	X	NONE

X : Don't Care

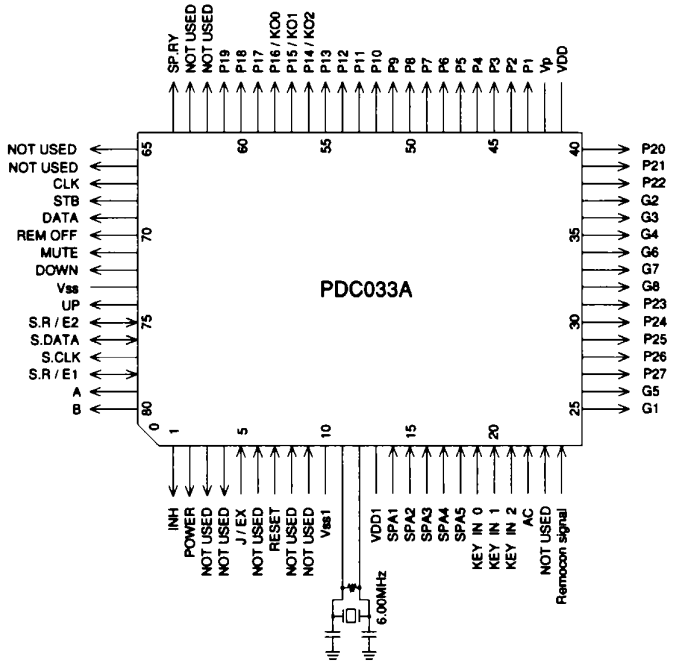
● Logic Diagram



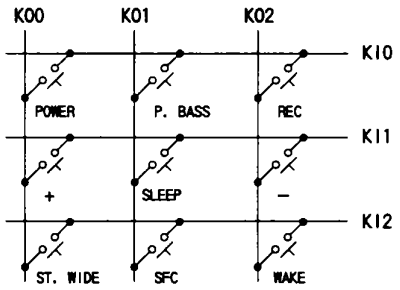
■ PDC033A [IC2501 : DISPLAY ASSY (A-P5500)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Logic
1	P17	INH	O	BU4052 function INHIBIT output	H
2	P30	POWER	O	Power control output	H
3	P31	NOT USED	O	Not used (Open)	
4	P32	NOT USED	O		
5	P33	J/$\overline{EX}$	I	Destination input (J/$\overline{EX}$)	L
6	P70	NOT USED	I	Not used (internal pull-up) (Connected to +5V.)	
7	$\overline{RES}$	RESET	I	Reset input	
8	P74	NOT USED	I	Not used (Connected to +5V.)	
9	P75	NOT USED	I		
10	VSS1	VSS	—	Connected to GND.	
11	CF1	——	—	Main System clock (6MHz) Connected to ceramic resonator.	
12	CF2	——	—		
13	VDD1	VDD	—	Connected to +5V.	
14	AN0	SPA1	I	Spectrum analizer input (analog) 10 kHz	
15	AN1	SPA2	I	Spectrum analizer input (analog) 3.3 kHz	

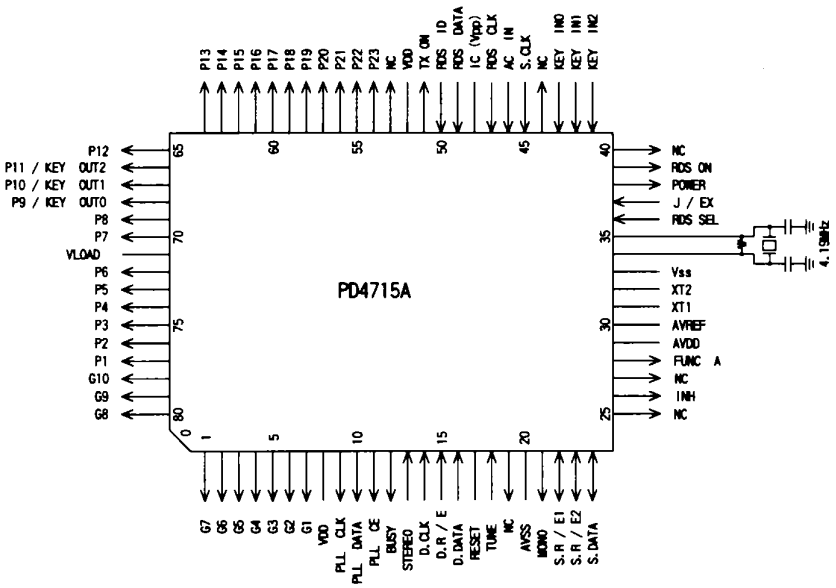
No.	Pin Name	Pin Function	I/O	Description	Logic
16	AN2	SPA3	I	Spectrum analizer input (analog) 1 kHz	
17	AN3	SPA4	I	Spectrum analizer input (analog) 330 Hz	
18	AN4	SPA5	I	Spectrum analizer input (analog) 100 Hz	
19 | 21	P85 | P87	KI0 | KI2	I	Key scan · Key return input 0 | Key scan · Key return input 2	
22	INT1	AC	I	AC pulse input	
23	P72	NOT USED	I	Not used (internal pull-up)	
24	INT3	RMC	I	Remote control signal input	
25	S0	G1	O	FL grid output G1	
26	S1	G5	O	FL grid output G5	
27 | 31	S2 | S6	P27 | P23	O	FL segment output P27 | FL segment output P23	
32 | 34	S7 | S9	G8 | G6	O	FL grid output G8 | FL grid output G6	
35 | 37	S10 | S12	G4 | G2	O	FL grid output G4 | FL grid output G2	
38 | 40	S13 | S15	P22 | P20	O	FL segment output P22 | FL segment output P20	
41	VDD2	VDD	—	Connected to +5V.	
42	VP	VFDP	—	Connected to power supply (–30V) for FL.	
43 | 55	S16 | S28	P1 | P13	O	FL segment output P1 | FL segment output P13	
56 | 58	S29 | S31	P14/KO2 | P16/KO0	O	FL segment output P14 · Key scan output 2 | FL segment output P16 · Key scan output 0	
59 | 61	S32 | S34	P17 | P19	O	FL segment output P17 | FL segment output P19	
62	PE3	NOT USED	O	Not used (open)	
63	PE4	NOT USED	O		
64	PE5	SP. RY	O	Front speaker relay output	H
65	P00	NOT USED	O	Not used (open)	
66	P01	NOT USED	O		
67	P02	CLK	O	PM0006A clock output	

No.	Pin Name	Pin Function	I/O	Description	Logic
68	P03	STB	O	PM0006A strobe output	
69	P04	DATA	O	PM0006A data output	
70	P05	REM OFF	O	Remote control OFF/ Control output control signal output	L
71	P06	MUTE	O	Mute output	H
72	P07	DOWN	O	Volume Motor control output (DOWN)	L
73	VSS2	VSS	—	Connected to GND.	
74	P10	UP	O	Volume Motor control output (UP)	L
75	P11	S. R/E2	I/O	Communication request/enable input/output 2 for system bus communication.	
76	P12	S. DATA	I/O	Data input/output for system bus communication.	
77	P13	S. CLK	O	Clock output for system bus communication.	
78	P14	S. R/E1	I/O	Communication request/enable input/output 1 for system bus communication.	
79	P15	A	O	BU4052 function switch A output	
80	P16	B	O	BU4052 function switch B output	

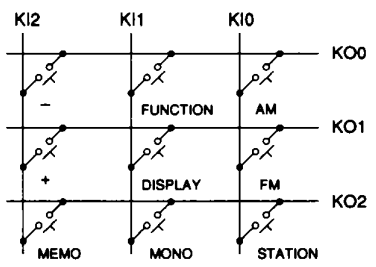
■ PD4715A [IC3301 : DISPLAY ASSY (F-P5500RDS)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Logic
1 | 5	P94/FIP6 | P90/FIP2	G7 | G3	O	FL control digit output	
6	P81/FIP1	G2	O	FL control digit output	
7	P80/FIP0	G1			
8	VDD	—	—	Connected to +5V.	
9	P27/$\overline{SCK0}$	PLL CLK	O	PLL LM7001 CLOCK output	
10	P26/SO0/SB1	PLL DATA	O	PLL LM7001 DATA output	
11	P25/SI0/SB0	PLL CE	O	PLL LM7001 CE output	H
12	P24/BUSY	BUSY	O	Busy output for system bus communication.	L
13	P23/STB	STEREO	I	STEREO receive status discrimination	L
14	P22/$\overline{SCK1}$	D. CLK	I	Clock input for CD display data communication.	
15	P21/SO1	D. R/E	I	Communication request input for CD display data communication.	L
16	P20/SI1	D. DATA	I	Data input for CD display data communication.	
17	$\overline{RESET}$	—	—	System reset input	L
18	P74	TUNE	I	TUNER tuning status discrimination	L
19	P73	NOT USED	O	Not used	L

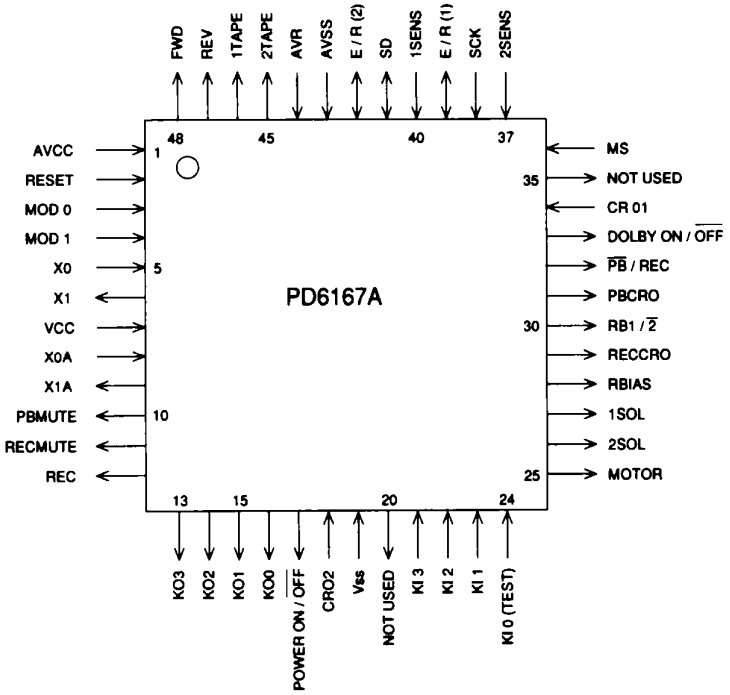
No.	Pin Name	Pin Function	I/O	Description	Logic
20	AVSS	—	—	Connected to GND.	
21	P17/ANI7	MONO	O	MONO output	H
22	P16/ANI6	S. R/E1	I/O	Communication request/enable input/output 1 for system bus communication.	
23	P15/ANI5	S. R/E2	I/O	Communication request/enable input/output 2 for system bus communication.	
24	P14/ANI4	S. DATA	I/O	Data input/output for system bus communication.	
25	P13/ANI3	NOT USED	O	Not used	L
26	P12/ANI2	INH	O	BU4053 output (INH)	H
27	P11/ANI1	NOT USED	O	Not used	L
28	P10/ANI0	FUNC A	O	BU4053 output CD/ $\overline{\text{TUNER}}$	
29	AVDD	—	—	Connected VDD.	
30	AVREF	—	—	Connected to GND.	
31	P04/XT1	NOT USED	—		
32	XT2	NOT USED	—	Not used	
33	VSS	—	—	Connected to GND.	
34	X1	—	—	Main system clock (4.19 MHz) Connected to crystal resonator.	
35	X2	—	—		
36	P37	RDS SEL	I	RDS ($\overline{\text{Yes}}$/No) descrimination input	
37	P36/BUZ	J/EX	I	Destination ($\overline{\text{J}}$/EX) descrimination input	
38	P35/PCL	POWER	O	Peripheral circuit power supply ON/$\overline{\text{OFF}}$	H
39	P34/T12	RDS ON	O	RDS circuit ON/$\overline{\text{OFF}}$	H
40	P33/T11	NOT USED	O	Not used	L
41 | 43	P32/TO2 | P30/TO0	KI2 | KI0	I	Key scan/ Key return signal input	H
44	P03/INTP3/CI0	NOT USED	O	Not used	L
45	P02/INTP2	S. CLK	I	Clock input for system bus communication.	
46	P01/INTP1	AC IN	I	AC clock input	
47	P00/INTP0/TI0	RDS CLK	I	RDS clock input	
48	IC (VPP)	—	I	Connected to GND.	
49	P72	RDS DATA	I	RDS data input	
50	P71	RDS ID	I	RDS tunung descrimination	L

No.	Pin Name	Pin Function	I/O	Description	Logic
51	P70	TX ON	O	Tuner module ON/$\overline{\text{OFF}}$	H
52	VDD	—	—	Connected to +5V.	
53	P127/FIP33	NOT USED	O	Not used	
54 | 60	P126/FIP32 | P120/FIP26	P23 | P17	O	FL control segment output	
61 | 65	P117/FIP25 | P113/FIP21	P16 | P12	O	FL control segment output	
66 | 68	P112/FIP20 | P110/FIP18	P11/KO2 | P9/KO0	O	FL control segment output/ Key scan strobe output	
69	P107/FIP17	P8	O	FL control segment output	
70	P106/FIP16	P7			
71	VLOAD	—	—	————	
72 | 77	P105/FIP15 | P100/FIP10	P6 | P1	O	FL control segment output	
78 | 80	P97/FIP9 | P95/FIP7	G10 | G8	O	FL control digit output	

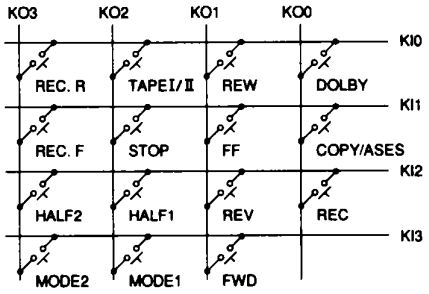
■ PD6167A [IC1701 : TC. MAIN ASSY (CT-P5500WR)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

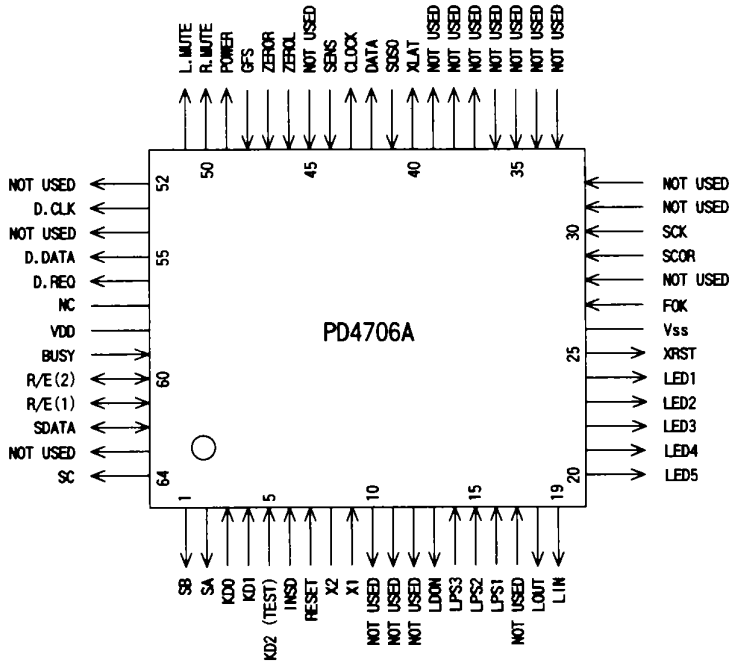
No.	Pin Name	Pin Function	I/O	Description	Logic
1	AVCC	VCC	—	Connected to +5V.	
2	RST	—	—	Micro-computer reset input	L
3	MOD0	—	—	Connected to GND.	
4	MOD1	—			
5	X0	—	—	Connected to Ceramic resonator (4.19 MHz)	
6	X1	—			
7	VCC	—	—	Connected to +5V.	
8	X0A	—	—	Connected to GND.	
9	X1A	—	—	OPEN	
10	P27	PBMUTE	O	PB MUTE output	H
11	P26	RECMUTE	O	REC MUTE output	H
12	P25	REC (LED)	O	REC LED output	H
13 | 16	P24 | P21	KO3 | KO0	O	Key scan strobe output	H
17	P20	POWER ON	O	Peripheral circuit ON/OFF	H

No.	Pin Name	Pin Function	I/O	Description	Logic
18	P17	CRO2	I	Mecha 2 tape type input CrO2/$\overline{\text{Normal}}$	
19	VSS	VSS	—	Connected to GND.	
20	P16	NOT USED	O	OPEN	L
21 | 23	P15 | P13	KI3 | KI1	I	Key scan/ Key return signal input	H
24	P12	KI0 (TEST)	I	Key scan/ Key return signal input (TEST MODE)	H
25	P11	MOTOR	O	Motor ON output	H
26	P10	2SOL	O	Mecha 2 solenoid ON output	H
27	P07	1SOL	O	Mecha 1 solenoid ON output	H
28	P06	RBIAS	O	Recording bias ON output	H
29	P05	RECCRO	O	CrO2 tape type detecting output when recording	H
30	P04	PB 1/$\overline{2}$	O	Switching playback 1/$\overline{2}$ output	
31	P03	PBCRO	O	CrO2 tape type detecting output when playback	L
32	P02	$\overline{\text{PB}}$/REC	O	Switching playback/recording output	
33	P01	DOLBY	O	Dolby NR ON output	H
34	P00	CRO1	I	Mecha 1 tape type input CrO2/$\overline{\text{Normal}}$	H
35	P37/BZ	NOT USED	O	OPEN	
36	P36/INT2	MS	I	Audio signal when MS input	H
37	P35/INT1	2SENS	I	Mecha 2 reel pulse input	
38	P34/INT0	SCK	I	System bus clock input	
39	P33	E/R (1)	I/O	System bus request/enable 1 input/output	
40	P32	1SENS	I	Mecha 1 reel pulse input	
41	P31	SD	I/O	System bus data input/output	
42	P30	E/R (2)	I/O	System bus request/enable 2 input/output	
43	AVSS	VSS	—	Connected to GND.	
44	AVR	VCC	—	Connected to +5V.	
45	P43	2TAPE (LED)	O	TAPE 2 LED output	L
46	P42	1TAPE (LED)	O	TAPE 1 LED output	L
47	P41	REV (LED)	O	REV LED output	L
48	P40	FWD (LED)	O	FWD LED output	L

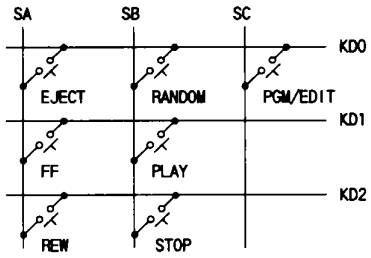
■ PD4706A [IC351 : CD. MAIN ASSY (PD-P5500)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



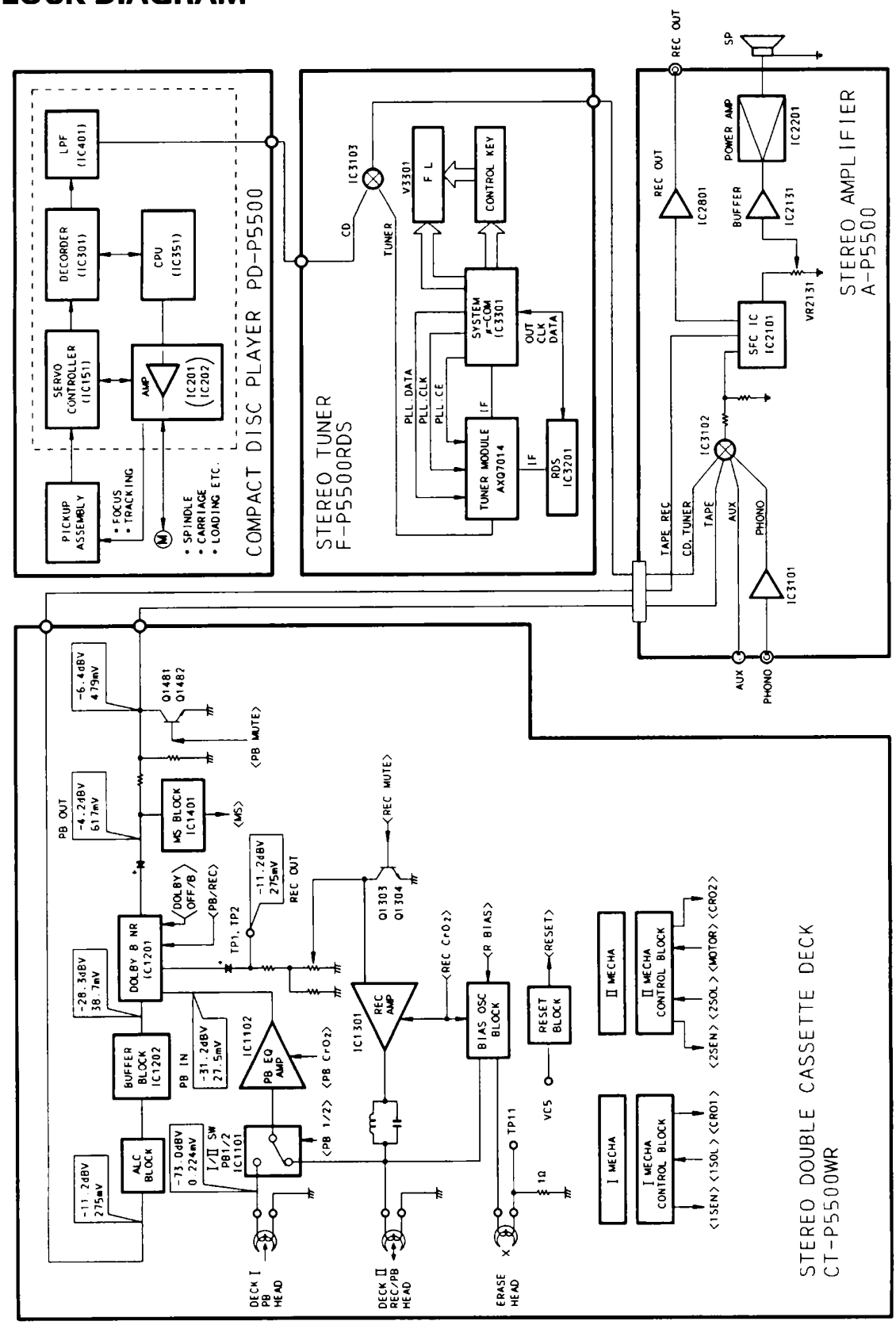
● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Logic
1	P41	SB	O	Key scan strobe output	H
2	P40	SA	O		
3	P53	KD0	I	Key scan/Key return signal input	H
4	P52	KD1			
5	P51	KD2 (TEST)	I	Key scan/Key return signal input (TEST MODE)	H
6	P50	INSD	I	Slider inside SW input	L
7	RESET	RESET	I	Micro-computer reset input	L
8	X2	—	—	Connected to Ceramic oscillator (4.19 MHz).	
9	X1	—			
10 | 12	P63 | P61	NOT USED	O	Connected to GND.	L
13	P60	LDON	O	Laser diode output	L
14	P73	LPS3	I	Disc clamp OK input	L
15	P72	LPS2	I	Photo transistor input	L
16	P71	LPS1	I		

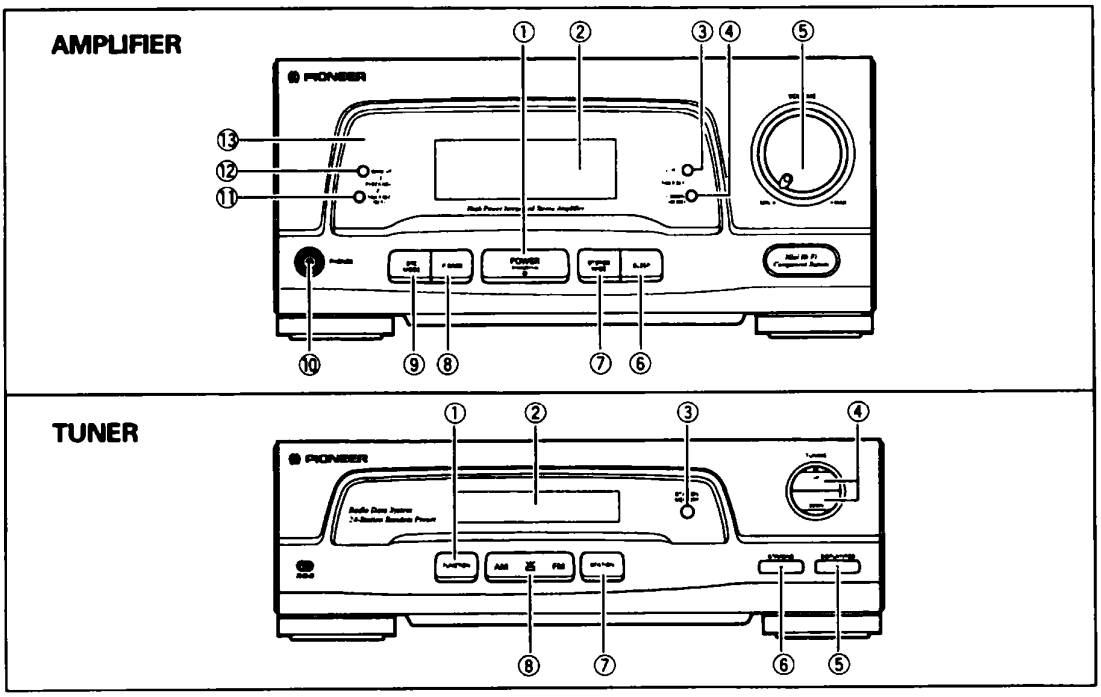
No.	Pin Name	Pin Function	I/O	Description	Logic
17	P70	NOT USED	I	Connected to GND.	
18	P83	LOUT	O	Disc OUT output	H
19	P82	LIN	O	Disc IN output	H
20	P81	LED5	O	LED ON/OFF output	H
21	P80	LED4			
22 | 24	P93 | P91	LED3 | LED1			
25	P90	XRST	O	CXD2508A reset pulse output	L
26	VSS	VSS	—	Connected to GND.	
27	P13/INT3	FOK	I	Focus OK input	H
28	P12/INT2	NOT USED	I	Connected to GND.	
29	P11/INT1	SCOR	I	Sub code sync SI + SO input	
30	P10/INT0	SCK	I	System bus clock input	
31	PTH03	NOT USED	I	Connected to GND.	
32	PTH02				
33	PTH01				
34	PTH00				
35	TI0				
36	TI1				
37 | 39	P23 | P21	NOT USED	O	OPEN	L
40	P20	XLAT	O	CXD2508A lutch pulse output	L
41	P03	SQSO	I	Sub code Q data serial input	
42	P02	DATA	O	CXD2508A control data serial output	
43	P01	CLOCK	O	CXD2508A control serial clock output	
44	P00	SENS	I	CXD2508A operating status multi-mode input	
45	P123	NOT USED	I	Connected to GND. (internal pull-up)	
46	P122	ZEROL	I	Non audio detection input (Lch)	H
47	P121	ZEROR	I	Non audio detection input (Rch)	H
48	P120	GFS	I	Frame sync lock OK input	H

No.	Pin Name	Pin Function	I/O	Description	Logic
49	P133	POWER	O	Peripheral circuit power supply ON/$\overline{\text{OFF}}$	H
50	P132	R. MUTE	O	Muting (Rch) output	H
51	P131	L. MUTE	O	Muting (Lch) output	H
52	P130	NOT USED	O	OPEN (built-in pull-up)	L
53	P143	D. CLK	O	Display data clock output	
54	P142	NOT USED	O	OPEN (built-in pull-up)	L
55	P141	D. DATA	O	Display data output	
56	P140	D. REQ	O	Display data transmission request output	L
57	NC	NOT USED	—	Connected to +5V.	
58	VDD	VDD			
59	P33	BUSY	I	System bus talker enable input	
60	P32	R/E (2)	I/O	System bus request/enable 2 input/output	
61	P31	R/E (1)	I/O	System bus request/enable 1 input/output	
62	P30	SDATA	I/O	System bus data input/output	
63	P43	NOT USED	O	OPEN	L
64	P42	SC	O	Key scan strobe output	H

9. BLOCK DIAGRAM



10. PANEL FACILITIES



AMPLIFIER

① POWER STANDBY/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.)

② Display
③ TIMER SET (+) UP button
④ TIMER SET (–) DOWN button
⑤ VOLUME control
⑥ SLEEP button
⑦ STEREO WIDE button
⑧ P. BASS button
⑨ SFC MODE button
⑩ Headphones jack (PHONES)
⑪ TIMER REC (SET) button
⑫ WAKE-UP button
⑬ Remote sensor

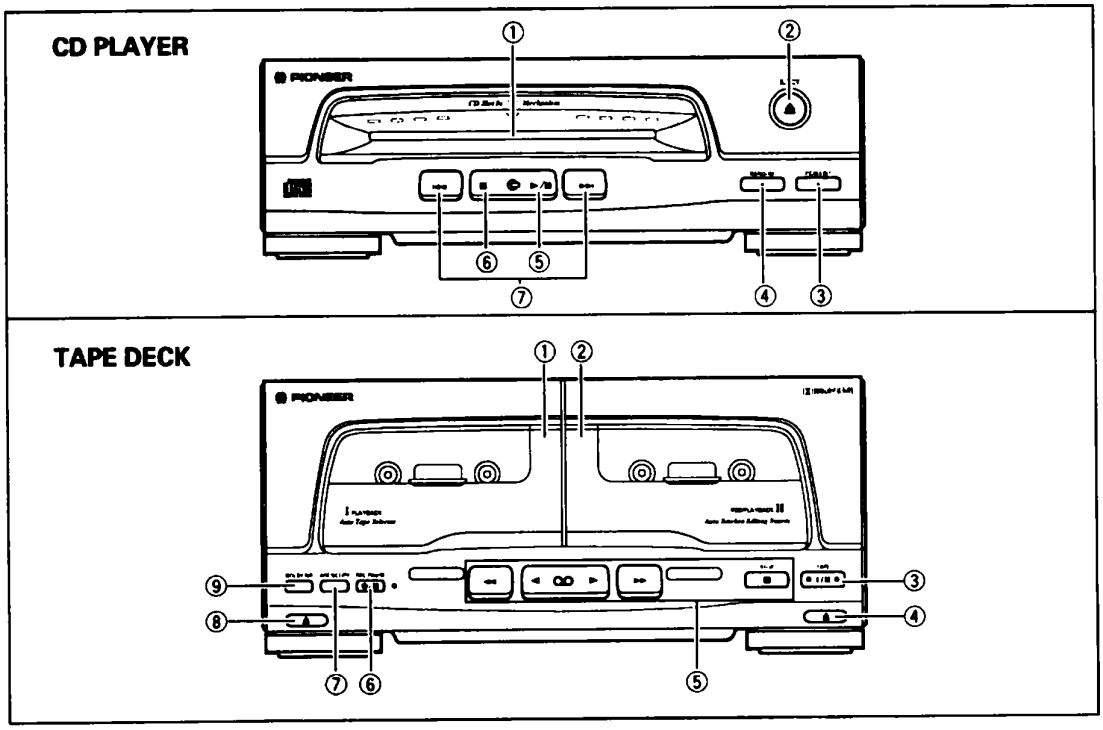
TUNER

① FUNCTION button
Each time this button is pressed, the function changes in the following sequence (The selected function is displayed in the display window and indicator.) :

■ AUTO FUNCTION
This system has an auto tuning function which automatically switches the input source when tape playback, CD play or tuner operation (FM/AM selection) is started.

NOTE:
The function cannot be switched during recording and tape copying.

② Display
③ STATION MEMORY button
④ TUNING (UP, DOWN) buttons
⑤ DISPLAY/RDS button
⑥ ST/MONO button
⑦ STATION button
⑧ AM/FM button



CD PLAYER

① **Disc slot**
② **EJECT button (⏏)**
③ **PGM (Program)/EDIT button**
④ **RANDOM button**
⑤ **Play/pause button (►/II)**
⑥ **Stop button (■)**
⑦ **Manual/track search buttons (I◄◄, ►►I)**

TAPE DECK

① **Tape I cassette door**
② **Tape II cassette door**
③ **TAPE I/II selector button**
④ **Tape II eject button (⏏)**
⑤ **Tape operation buttons (Fast◄◄ ►►, STOP■, Play◄ ►)**
⑥ **REC PAUSE button (●/II)**
⑦ **ASES (Auto Synchro Editing System)/COPY button**
⑧ **Tape I eject button (⏏)**
⑨ **DOLBY* NR ON/OFF button**
Each time this button is pressed, Dolby NR system turns ON and OFF.

*

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

11. SPECIFICATIONS

Amplifier section

Music power (DIN) ..... 95 W + 95 W
Continuous Power Output (DIN)..... 55 W + 55 W
(1 kHz, T.H.D. 1%, 8 Ω)
Continuous Power Output (RMS)..... 70 W + 70 W
(1 kHz, T.H.D. 10%, 8 Ω)
Dimensions..... 260 (W) x 121 (H) x 234 (D)mm
Weight ..... 4.3 kg

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

FM/AM tuner section

FM Tuner section

Frequency Range..... 87.5 MHz to 108 MHz
Usable Sensitivity..... Mono: 14.2 dBf, IHF
(1.4 μV/75 Ω)
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range..... 531 kHz to 1,602 kHz
Antenna..... Loop Antenna
Dimensions..... 260 (W) x 86 (H) x 234 (D)mm
Weight ..... 1.4 kg

CD Section

Type ..... Compact disc digital audio system
Wow and Flutter ..... Limit of measurement
(±0.001% W.PEAK) or less (EIAJ)
S/N Ratio (EIAJ) ..... 96 dB
Dimensions..... 260 (W) x 86 (H) x 230 (D)mm
Weight ..... 1.7 kg

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
Wow and Flutter..... No more than 0.1%(WRMS)
Frequency Response (–20 dB recording) :
TYPE I
(Normal) tape ..... 35 Hz to 14,000 Hz ± 6 dB
TYPE II
(HIGH/CrO_2) tape ..... 35 Hz to 15,000 Hz ± 6 dB
Signal-to Noise Ratio
Dolby NR OFF ..... 56 dB
Noise Reduction Effect
Dolby B type NR ON.....More than 10 dB (at 5 kHz)
Dimensions..... 260 (W) x 121 (H) x 226 (D)mm
Weight ..... 2.4 kg

Miscellaneous

Power Requirements
European model ..... AC. 220-230 V, 50/60 Hz
U.K. model..... AC. 230V, 50/60Hz
Power Consumption..... 290 W

Accessories

Operating Instructions 1
Remote Control Unit 1
Dry Cell Batteries (AAA/R03) 2
FM T-type Antenna..... 1
AM Loop Antenna 1
System Cable..... 1
Speaker Cords (supplied with speaker system) 2
Warranty card 1

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