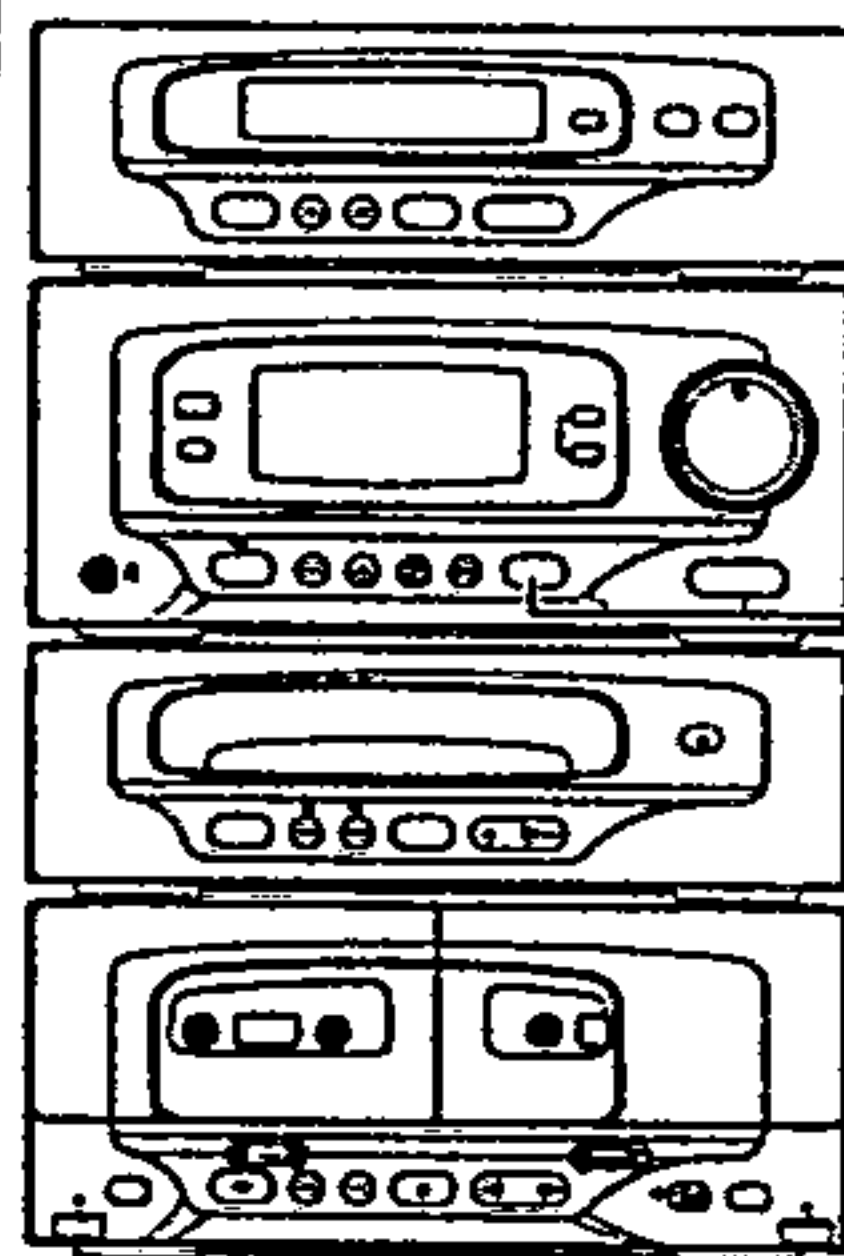


Service Manual

PIONEER®

The Art of Entertainment



DEMO

ORDER NO.
RRV1256

SEPARATE MINI COMPONENT SYSTEM

XS-P550

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

Type	Model	Power Requirement	Remarks
	XS-P550		
MEXK/EA	○	AC220-230V	
MEXK/EB	○	AC220-230V	
MEZIXK/DI	○	AC220-230V	
NBXK	○	AC230V	

- XS-P550 is a combination of the following components.

STEREO AMPLIFIER : A-P550
FM/AM DIGITAL SYNTHESIZER TUNER : F-P550RDS
COMPACT DISC PLAYER : PD-P550
STEREO DOUBLE CASSETTE DECK : CT-P550WR

- 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.

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

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

PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2, Canada

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

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia, TEL: [03] 580-9911

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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.

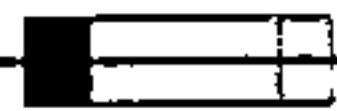
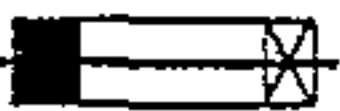
WARNING

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.

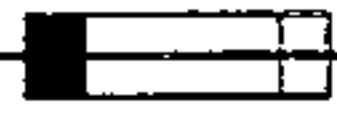
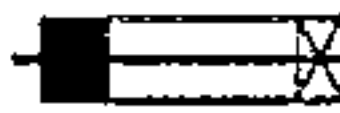
NOTICE

(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.

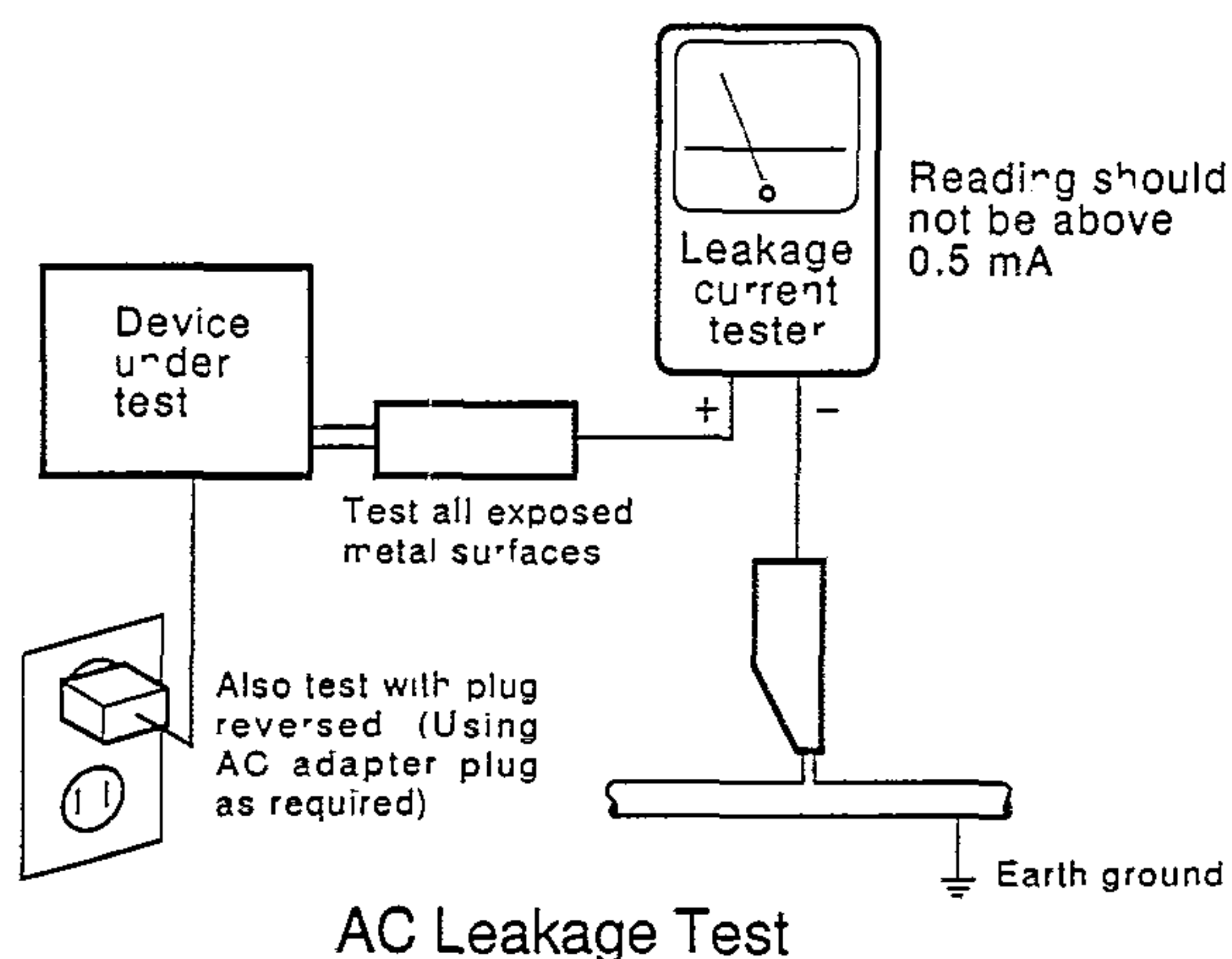
(FOR USA MODEL ONLY)

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.



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

2. PRODUCT SAFETY NOTICE

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

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

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

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

(FOR EUROPEAN MODEL ONLY)

VARO!

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



LASER
Kuva 1
Lasersäteilyn
varoituserkki

ADVERSEL:

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

VARNING!

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

WARNING!

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



LASER
Picture 1
Warning sign for
laser radiation

IMPORTANT

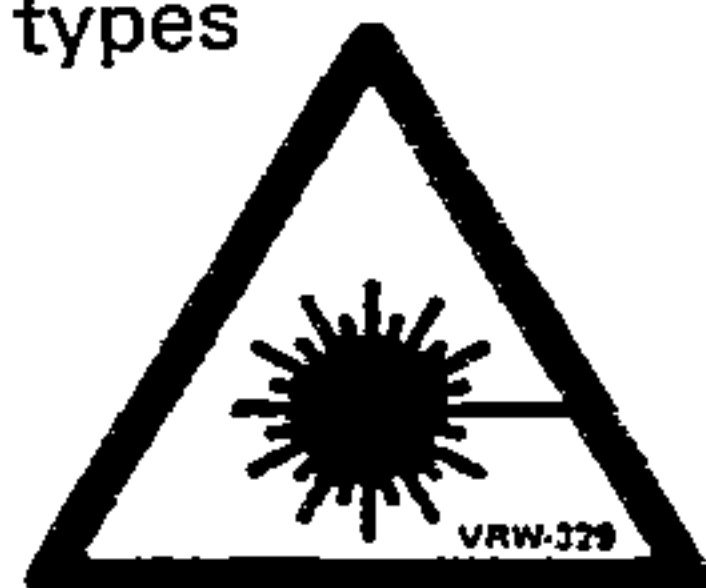
THIS PIONEER APPARATUS CONTAINS
LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS
SHOULD BE DONE BY A SPECIALLY
INSTRUTED PERSON.

LASER DIODE CHARACTERISTICS

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

LABEL CHECK (PD - P550)

MEXK/EA, MEXK/EB,
NBXK and MEZIXK/DI
types

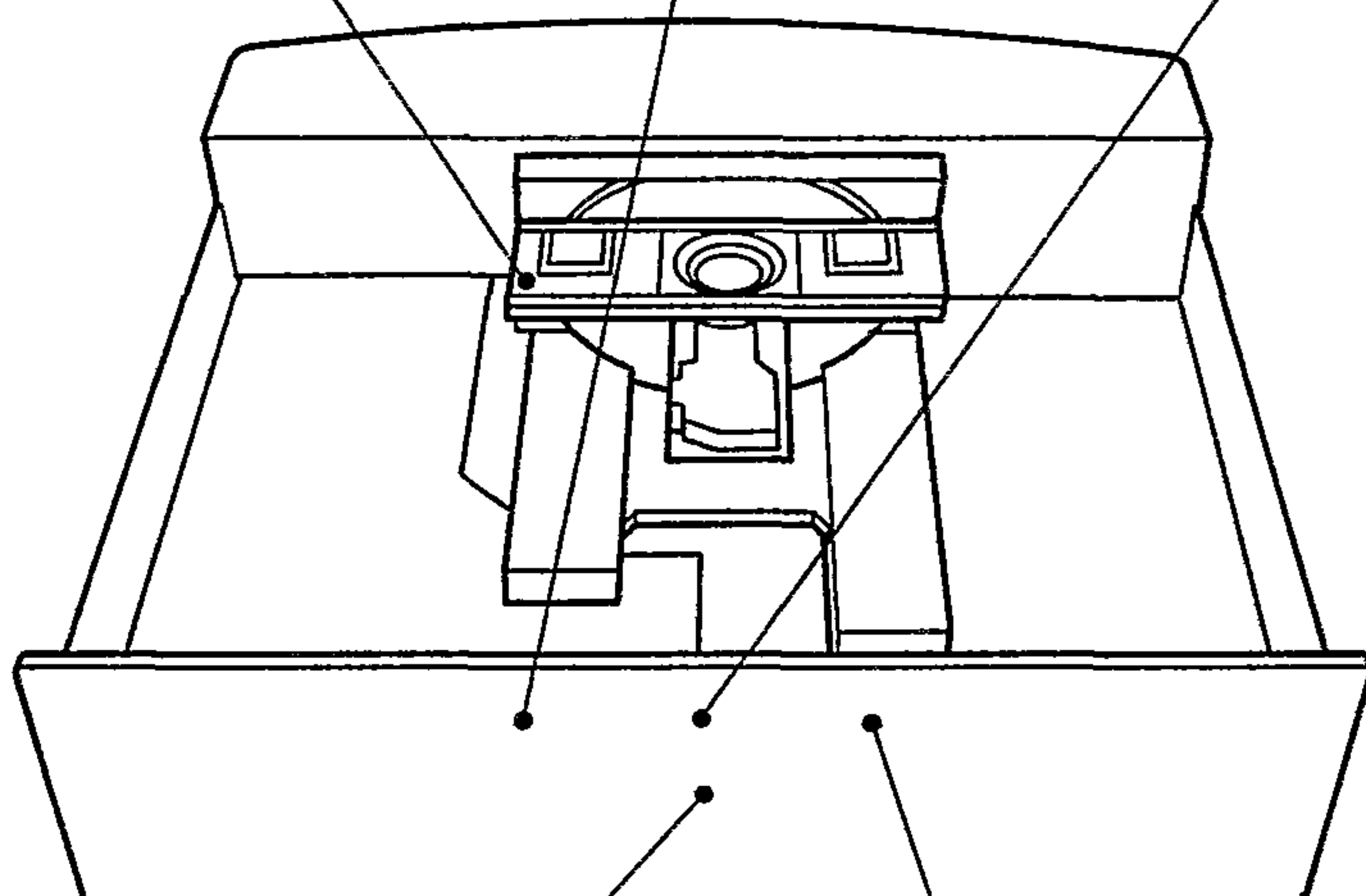


NBXK type

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

MEXK/EA, MEXK/EB and
MEZIXK/DI types

ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAF-
BRYDERE ER UDE AF FUNKTION.
UNDGA UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSICHTBARE LASER-STRÅHLUNG TRIT AUS, WENN DECKEL
(ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
PRW1094



Additional Laser Caution

1. Laser Interlock Mechanism

The position of the switch (S601) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not in CLMP terminal side (when the mechanism is not clamped and CLMP signal is high level.) Thus, the interlock will no longer function if the switch (S601) is deliberately set to CLMP terminal side (if CLMP signal is low level).

In the test mode* the interlock mechanism will not function.

Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the PRE-AMP BOARD ASSY loaded on the pickup assembly are 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.

VARO!

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

MEXK/EA, MEXK/EB and
MEZIXK/DI types

**CLASS 1
LASER PRODUCT**
VRW-328

MEXK/EA, MEXK/EB, NBXK and
MEZIXK/DI types

* Refer to page 78.

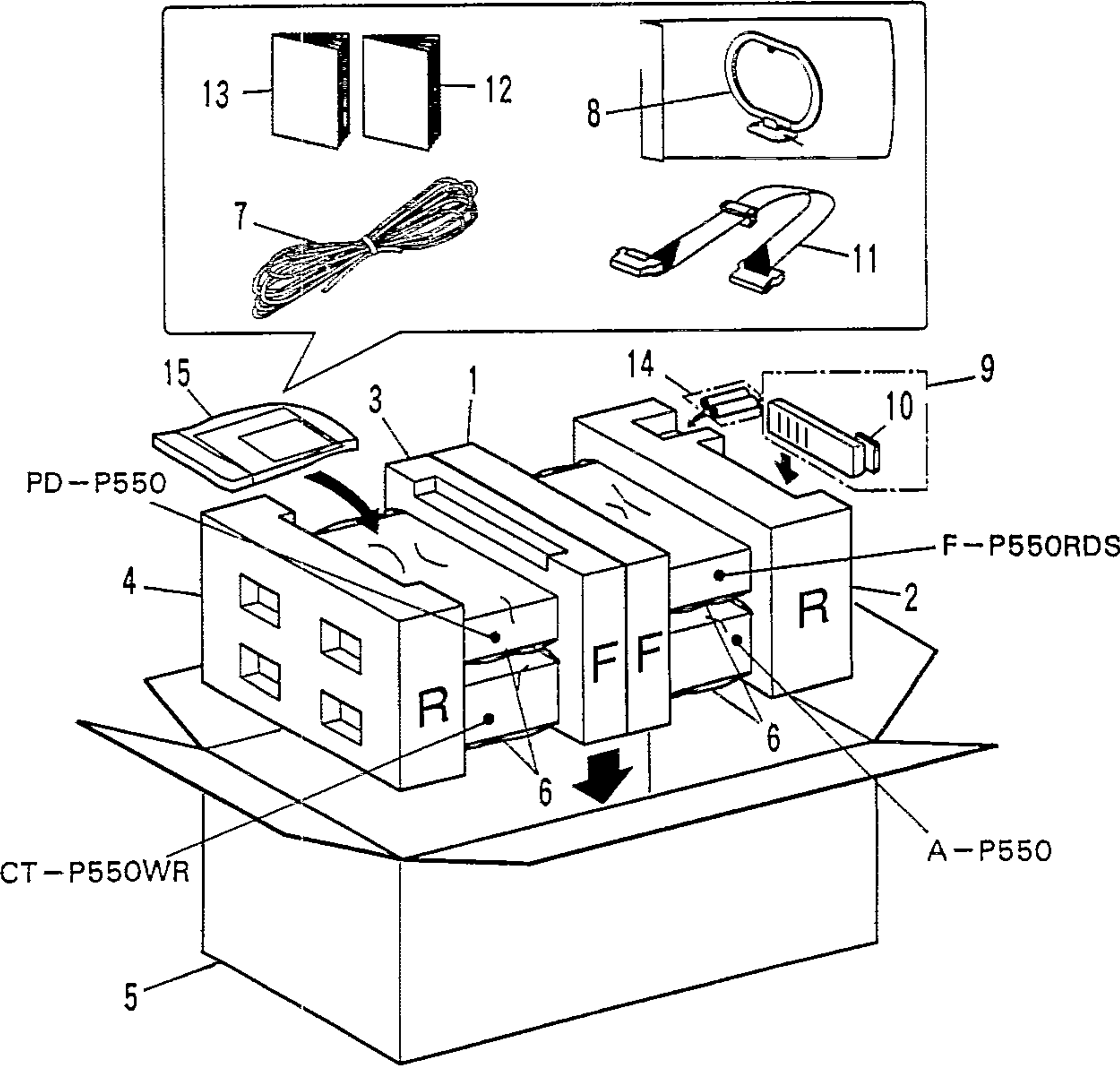
2. EXPLODED VIEWS, PACKING AND PARTS LIST

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.	Mark	No.	Description	Parts No.
	1	PROTECTOR F	RHA1162		12	OPERATING INSTRUCTIONS (German/Italian) (MEXK/EA and MEZIXK/DI types)	RRD1162
	2	PROTECTOR R	RHA1163		12	OPERATING INSTRUCTIONS (English) (MEXK/EB and NBXK types)	RRB1153
	3	PROTECTOR F	RHA1164		13	OPERATING INSTRUCTIONS (French/Dutch) (MEXK/EA type)	RRD1163
	4	PROTECTOR R	RHA1165		13	OPERATING INSTRUCTIONS (French/Swedish/Spanish/Portuguese) (MEXK/EB type)	RRD1164
	5	MASTER CARTON	RHG1625	NSP	14	BATTERY (R03, AAA)	VEM-022
	6	SHEET	VHL1006		15	POLY. BAG (0.03 × 230 × 340)	Z21-038
	7	FM ANTENNA ASSY	ADH1019				
	8	LOOP ANTENNA ASSY	ATB1012				
	9	REMOTE CONTROL UNIT (CU-XR015)	AXD7030				
	10	BATTERY COVER	AZA7050				
	11	CONTROL CORD ASSY	RDE1041				

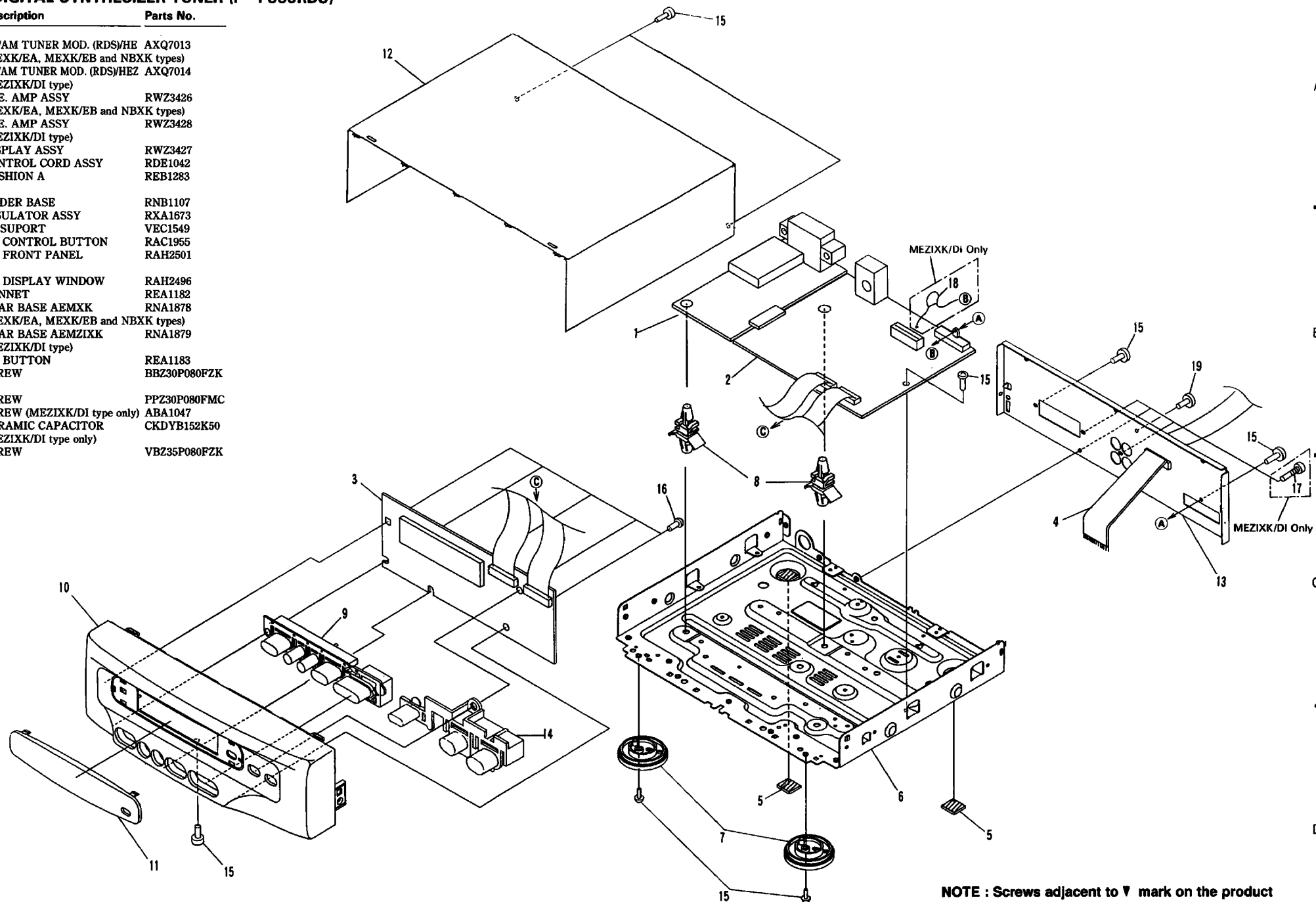


2.2 EXPLODED VIEWS

1. FM/AM DIGITAL SYNTHESIZER TUNER (F-P550RDS)

Mark	No.	Description	Parts No.
------	-----	-------------	-----------

A	1	FM/AM TUNER MOD. (RDS/HE (MEXK/EA, MEXK/EB and NBXK types)	AXQ7013
	1	FM/AM TUNER MOD. (RDS/HEZ (MEZIXK/DI type)	AXQ7014
	2	PRE. AMP ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3426
	2	PRE. AMP ASSY (MEZIXK/DI type)	RWZ3428
	3	DISPLAY ASSY	RWZ3427
NSP	4	CONTROL CORD ASSY	RDE1042
	5	CUSHION A	REB1283
NSP	6	UNDER BASE	RNB1107
	7	INSULATOR ASSY	RXA1673
NSP	8	PC SUPORT	VEC1549
	9	TU CONTROL BUTTON	RAC1955
	10	TU FRONT PANEL	RAH2501
NSP	11	TU DISPLAY WINDOW	RAH2496
	12	BONNET	REA1182
NSP	13	REAR BASE AEMXK (MEXK/EA, MEXK/EB and NBXK types)	RNA1878
B NSP	13	REAR BASE AEMZIXK (MEZIXK/DI type)	RNA1879
	14	TU BUTTON	REA1183
	15	SCREW	BBZ30P080FZK
	16	SCREW	PPZ30P080FMC
	17	SCREW (MEZIXK/DI type only)	ABA1047
	18	CERAMIC CAPACITOR (MEZIXK/DI type only)	CKDYB152K50
	19	SCREW	VBZ35P080FZK



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

2. STEREO DOUBLE CASSETTE DECK (CT-P550WR)

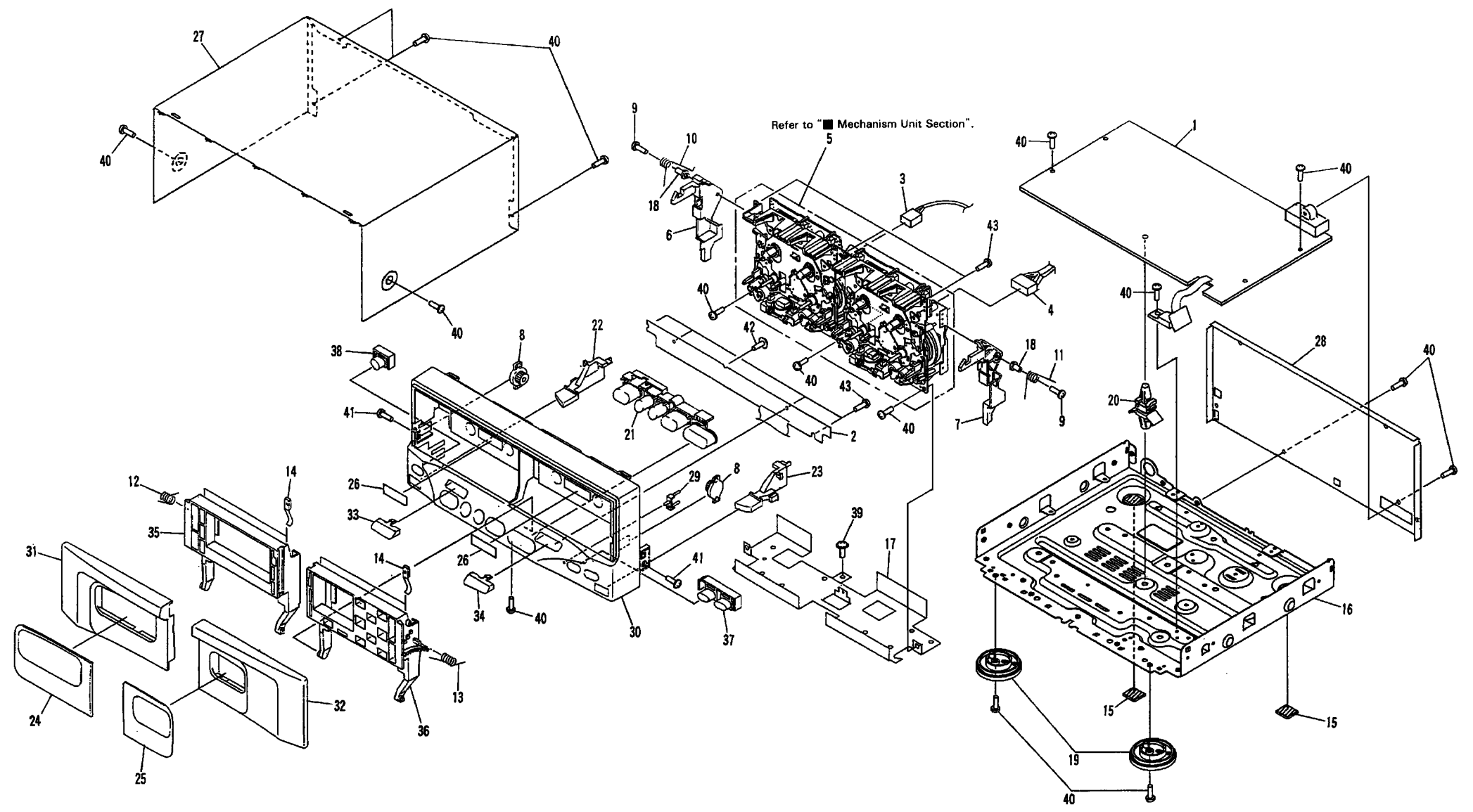
■ Exterior

A

B

C

D



A

B

C

D

Mark	No.	Description	Parts No.
NSP	1	TC. MAIN ASSY	RWZ3440
	2	TC. FUNC ASSY	RWZ3441
	3	CONNECTOR ASSY 3P	RKP1716
	4	CONNECTOR ASSY 5P	RKP1715
	5	MECHANISM UNIT	RYM1235
NSP	6	EJECT ARM L	AMR7024
	7	EJECT ARM R	AMR7025
	8	DAMPER ASSY	AXA7021
	9	SCREW	BSZ20P120FMC
	10	EJECT SPRING (L)	ABH7028
	11	EJECT SPRING (R)	ABH7029
	12	DOOR SPRING L	RBH1422
	13	DOOR SPRING R	RBH1423
	14	SPRING	RBK1004
	15	CUSHION A	REB1283
NSP	16	UNDER BASE	RNB1107
NSP	17	SHIELD PLATE	RNE1824
NSP	18	COLLAR	RNK2135
	19	INSULATOR ASSY	RXA1673
NSP	20	PC SUPORT	VEC1549
NSP	21	TC CONTROL BUTTON	REA1163
	22	EJECT KNOB L	RAC1952
	23	EJECT KNOB R	RAC1953
	24	DOOR LENS L	RAH2586
	25	DOOR LENS R	RAH2587
NSP	26	INDICATOR	REE1019
	27	BONNET	REA1180
	28	REAR BASE AEM	RNA1872
	29	LED LENS	RNK2128
	30	TC FRONT PANEL	REA1190
NSP	31	DOOR PANEL L	REA1158
	32	DOOR PANEL R	REA1159
	33	AZIMUTH COVER L	REA1160
	34	AZIMUTH COVER R	REA1161
	35	DOOR POCKET L	RNK2124
NSP	36	DOOR POCKET R	RNK2125
	37	TC BUTTON A	REA1164
	38	TC BUTTON B	REA1165
	39	SCREW	BBZ30P060FMC
	40	SCREW	BBZ30P080FZK
NSP	41	SCREW	CBZ30P080FZK
	42	SCREW	IPZ30P080FCU
	43	SCREW	PPZ30P080FMC

■ Mechanism Unit Section

● Mechanism unit I and II (1/2)

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

● Mechanism unit I and II (2/2)

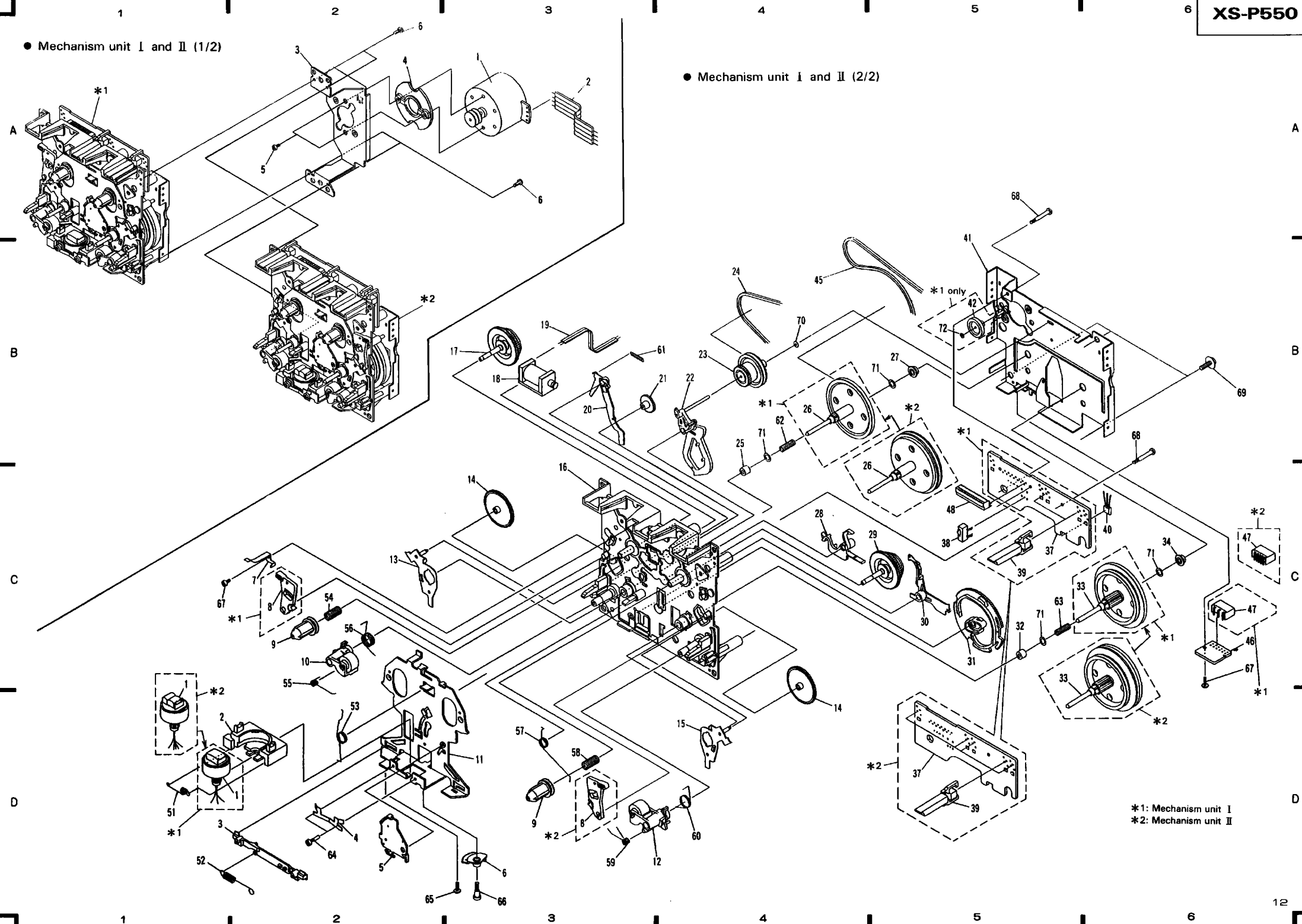
Mark	No.	Description	Parts No.
	1	ASSY HOLDER HEAD (*1)	RXA1400
	1	ASSY HOLDER HEAD (*2)	RXA1664
	2	FRAME HEAD	RNK1715
	3	LEVER HEAD	RNK1716
	4	SPRING AZIMUTH	RBK1006
	5	ASSY ARM ASSIST	RXA1401
	6	GEAR ARM HEAD	RNK1717
	7	SPRING CASSETTE	RBK1039
	8	EJECT LOCK	RNK1718
	9	CAP REEL	RNK1719
	10	ASSY PINCH ARM L	RXA1403
	11	CHASSIS HEAD	RNE1437
	12	ASSY PINCH ARM R	RXA1404
	13	ARM PLAY L	RNK1866
	14	GEAR PLAY	RNK1867
	15	ARM PLAY R	RNK1868
	16	CHASSIS OS	RXA1411
	17	ASSY SUB REEL L	RXA1407
	18	SOLENOID	RXP1020
	19	WIRE	RDC1006
	20	ARM RVS	RNK1721
	21	GEAR FF	RNK1723
	22	ASSY ARM FR	RXA1412
	23	ASSY PULLEY FR	RXA1413
	24	BELT FR	REB1158
	25	METAL	RNG1048
	26	ASSY FLYWHEEL L (*1)	RXA1666
	26	ASSY FLYWHEEL L2 (*2)	RXA1668
	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 (*1)	RXA1667
	33	ASSY FLYWHEEL R2 (*2)	RXA1669
	34	METAL	RNG1004
	35		

Mark	No.	Description	Parts No.
	36		
	37	P. C. BOARD	RNP1610
	38	SWITCH MODE	RSN1020
	39	SWITCH (LEAF)	RSN1019
	40	HALL IC	DN6851A
	41	ASSY BRACKET (*1)	RXA1665
	41	BRACKET FW (*2)	RNE1438
	42	PULLEY (*1 only)	RNK2132
	43		
	44		
	45	BELT MAIN (*1)	REB1273
	45	BELT MAIN (*2)	REB1272
	46	P. C. BOARD	RNP1348
	47	HOUSING (*1)	RKP1396
	47	HOUSING (*2)	RKP1397
	48	CONNECTOR (*1)	RKP1713
	48	CONNECTOR (*2)	RKP1714
	49		
	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	RBH1046
	71	WASHER	WA26D047D013
	72	WASHER (*1 only)	WT13D030D025

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

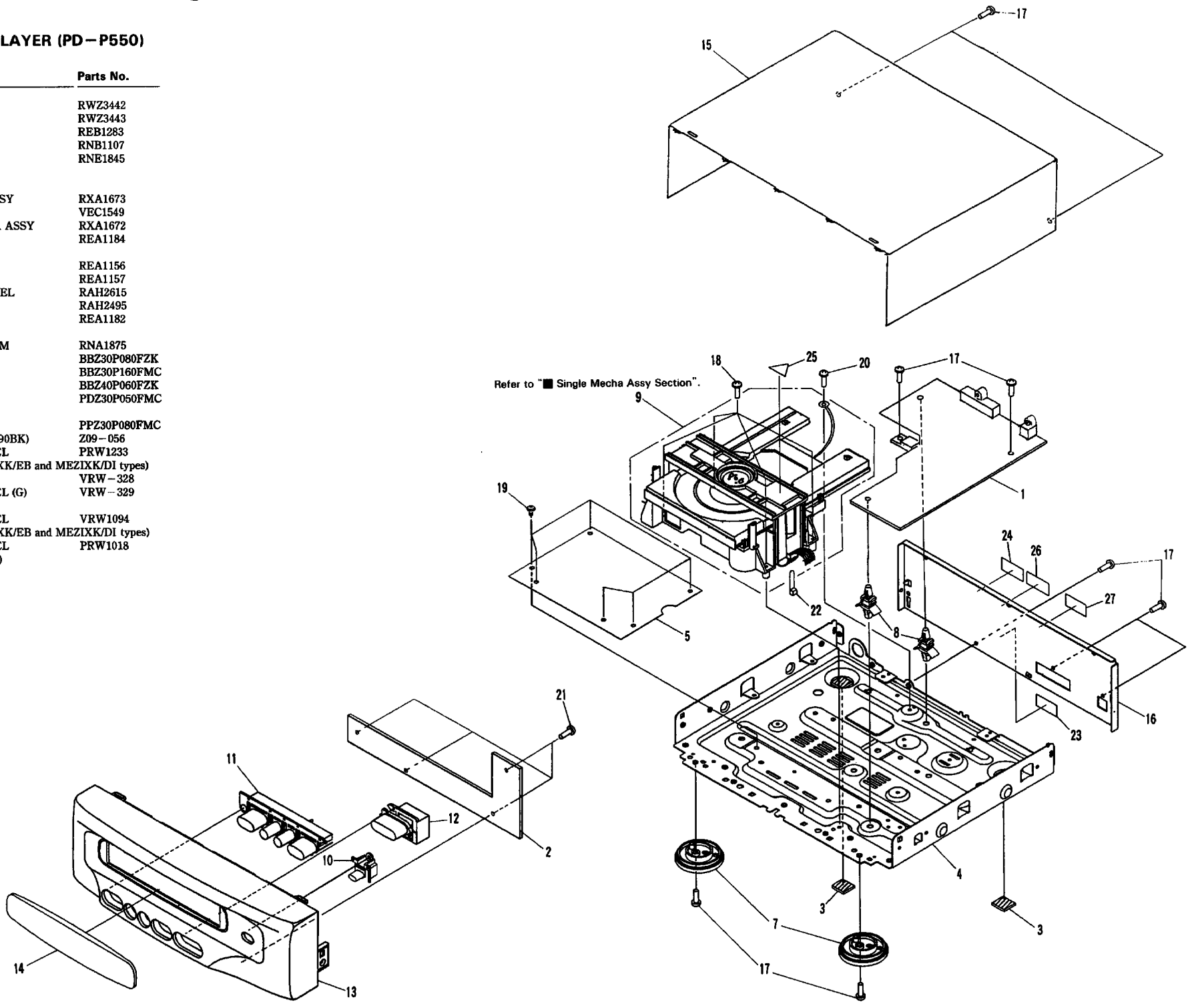
● Mechanism unit I and II (1/2)

● Mechanism unit I and II (2/2)



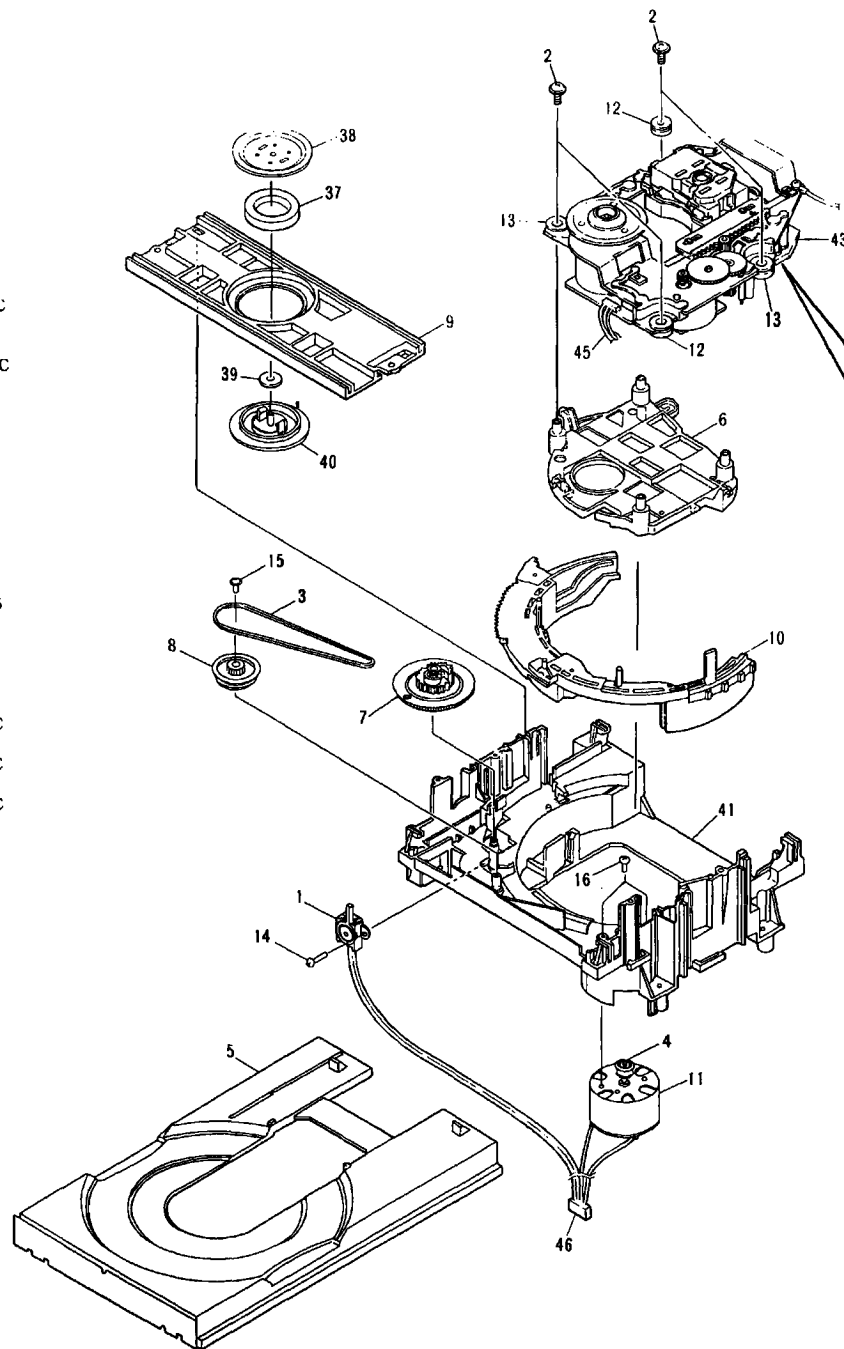
3. COMPACT DISC PLAYER (PD-P550)

Exterior			
Mark	No.	Description	Parts No.
A	1	CD. MAIN ASSY	RWZ3442
	2	CD. FUNC ASSY	RWZ3443
	3	CUSHION A	REB1283
	4	UNDER BASE	RNB1107
	5	SUB CHASSIS K	RNE1845
NSP	6		
	7	INSULATOR ASSY	RXA1673
	8	PC SUPORT	VEC1549
	9	SINGLE MECHA ASSY	RXA1672
	10	CD BUTTTON A	REA1184
NSP	11	CD CONTROL A	REA1156
	12	CD CONTROL B	REA1157
	13	CD FRONT PANEL	RAH2615
	14	NAME PLATE	RAH2495
	15	BONNET	REA1182
NSP	16	REAR BASE AEM	RNA1875
	17	SCREW	BBZ30P080FZK
	18	SCREW	BBZ30P160FMC
	19	SCREW	BBZ40P060FZK
	20	SCREW	PDZ30P050FMC
NSP	21	SCREW	PPZ30P080FMC
	22	BINDER (SKB-90BK)	Z09-056
	23	CAUTION LABEL (MEXK/EA, MEXK/EB and MEZIXK/DI types)	PRW1233
	24	LABEL (F)	VRW-328
	25	CAUTION LABEL (G)	VRW-329
NSP	26	CAUTION LABEL (MEXK/EA, MEXK/EB and MEZIXK/DI types)	VRW1094
	27	CAUTION LABEL (NBXK type only)	PRW1018



Single Mecha Assy Section

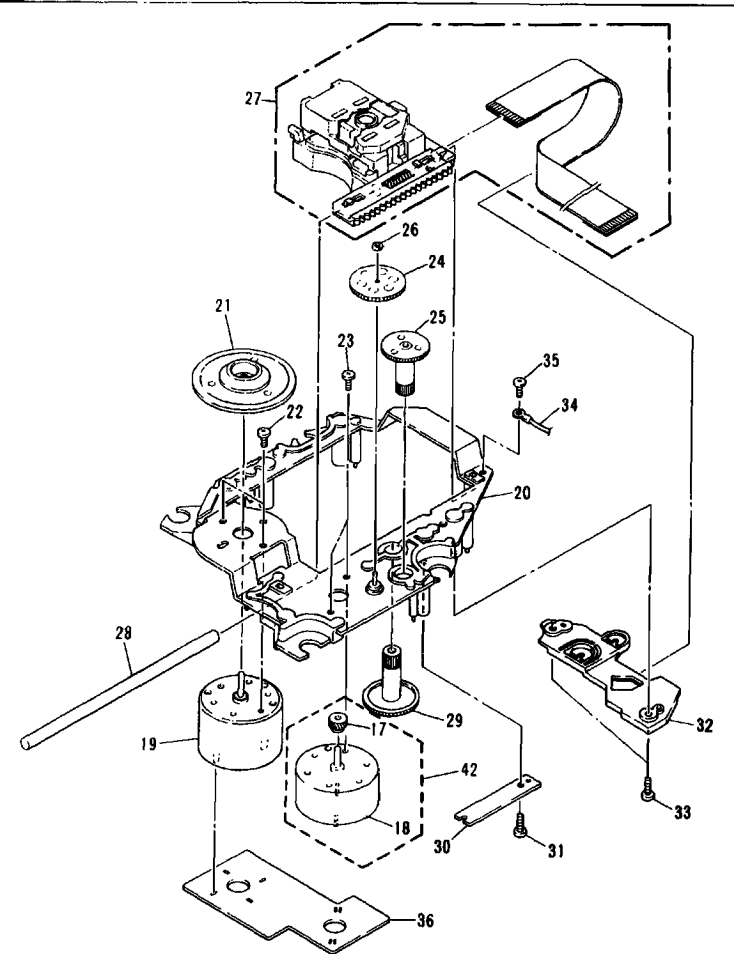
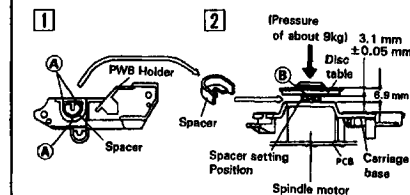
Mark	No.	Description	Parts No.
A	1	LEVER SWITCH (CLAMP, S601)	DSK1003
	2	FLOAT SCREW	PBA1048
	3	RUBBER BELT	PEB1193
	4	MOTOR PULLEY	PNW1634
	5	TRAY	PNW2455
	6	FROAT BASE	PNW2032
	7	DRIVE GEAR 2	PNW2369
	8	GEAR PULLEY	PNW2034
	9	CLAMPER BASE	PNW2375
	10	CLAMP CAM	PNW2364
NSP	11	DC MOTOR/0.75W (LOADING)	PXM1010
	12	FLOAT RUBBER B	REB1287
	13	FLOAT RUBBER G	REB1288
	14	SCREW	BPZ26P100FMC
	15	SCREW	Z39-019
	16	SCREW	PMZ26P040FMC
	17	PINION GEAR	PNW2055
	18	DC MOTOR (CARRIAGE)	PXM1027
	19	DC MOTOR ASSY (SPINDLE)	PEA1235
	20	CARRIAGE BASE	PNW2445
B	21	DISC TABLE	PNW1608
	22	SCREW	JFZ20P030FNI
	23	SCREW	JFZ17P025FZK
	24	GEAR 3	PNW2054
	25	GEAR 2	PNW2053
	26	WASHER	WT12D032D025
	27	PICKUP ASSY	PEA1291
	28	GUIDE BAR	PLA1094
	29	GEAR 1	PNW2052
	30	GEAR STOPPER	PNB1303
NSP	31	SCREW	BPZ20P060FMC
	32	PWB HOLDER	PNW2057
	33	SCREW	BPZ26P100FMC
	34	EARTH LEAD UNIT	PDF1104
	35	SCREW	BBZ26P060FMC
C	36	MECHANISM BOARD ASSY	PWX1192
	37	CLAMP MAGNET	PMF1014
	38	YOKE	PNB1216
	39	H RUBBER	PEB1249
	40	CLAMPER S	PNW1609
NSP	41	LOADING BASE	PNW2376
	42	DC MOTOR ASSY (CARRIAGE)	PEA1246
	43	SERVO MECHANISM ASSY SL	AXA7017
	44	CONNECTOR ASSY (4P)	RDE1043
	45	CONNECTOR ASSY (5P)	PDE1239
	46	CONNECTOR ASSY (5P)	PDE1239



● How to install the disc table

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

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



4. STEREO AMPLIFIER (A-P550)

A

B

C

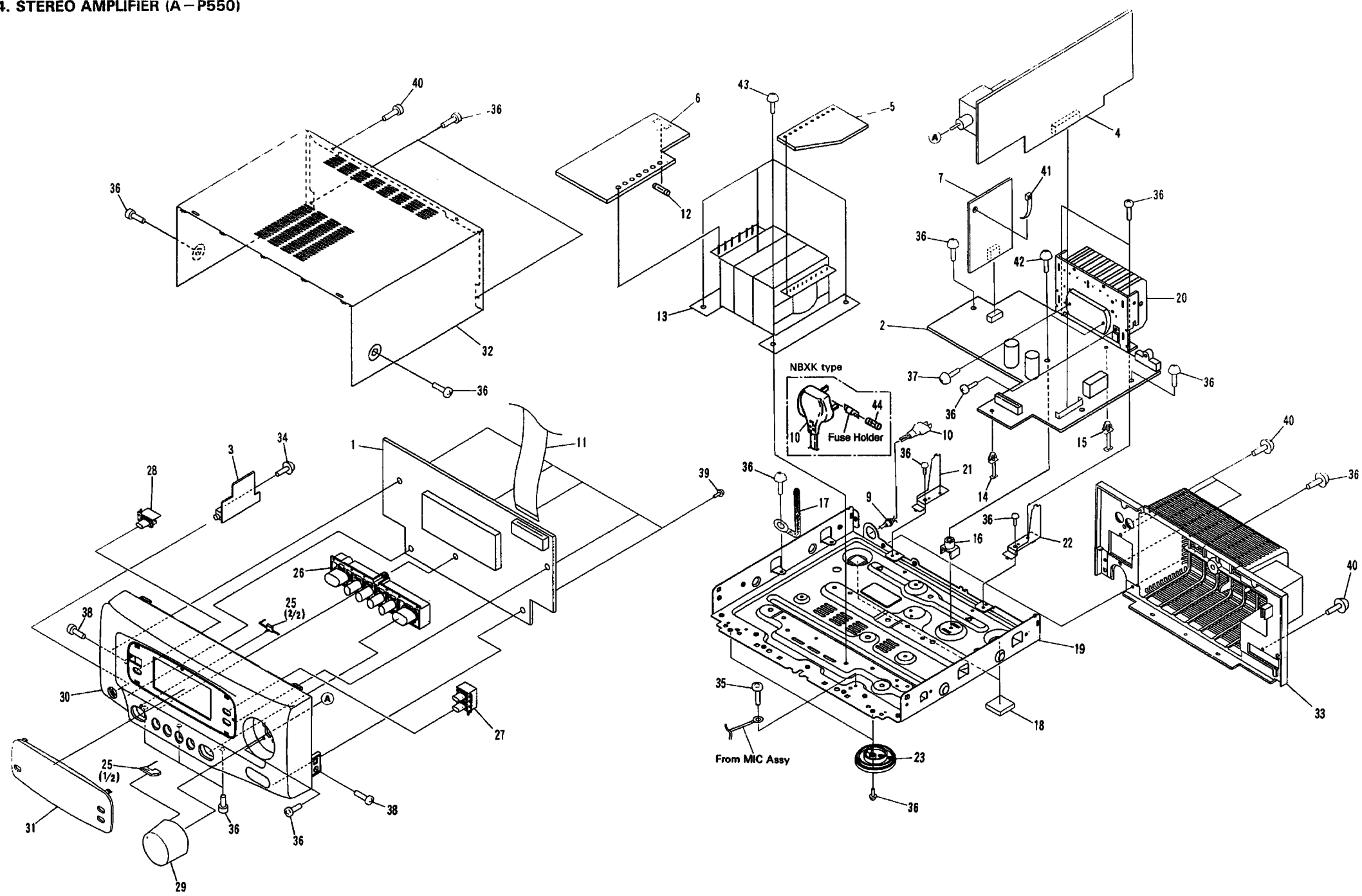
D

A

B

C

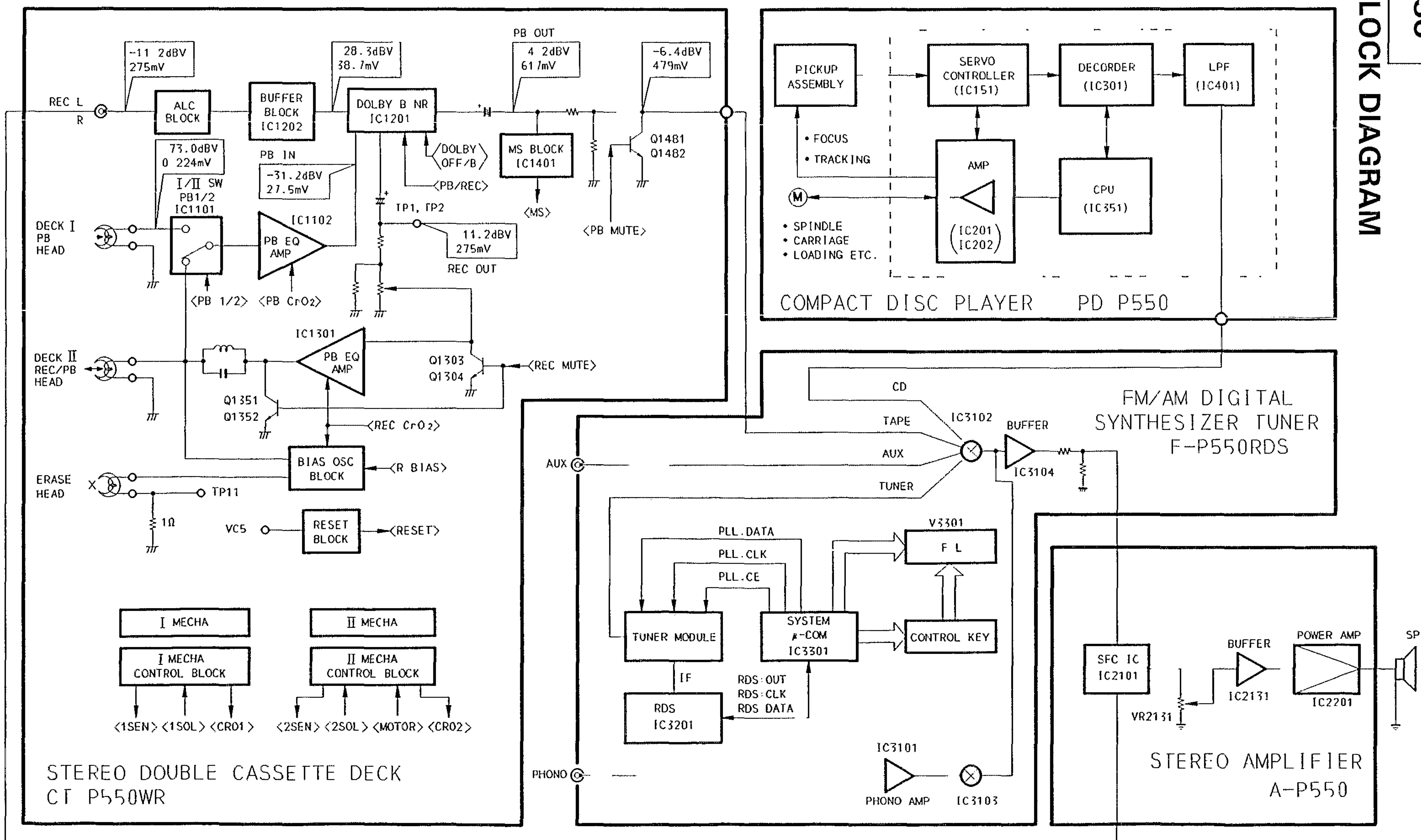
D



Mark	No.	Description	Parts No.
	1	DISPLAY ASSY	RWZ3411
	2	MAIN ASSY	RWZ3412
		(MEXK/EA, MEXK/EB and NBXK types)	
	2	MAIN ASSY (MEZIXK/DI type)	RWZ3418
NSP	3	H.P ASSY	RWZ3413
		(MEXK/EA, MEXK/EB and NBXK types)	
NSP	3	H.P ASSY (MEZIXK/DI type)	RWZ3419
	4	SFC ASSY	RWZ3414
		(MEXK/EA, MEXK/EB and NBXK types)	
	4	SFC ASSY (MEZIXK/DI type)	RWZ3420
NSP	5	CONNECT ASSY	RWZ3415
		(MEXK/EA, MEXK/EB and NBXK types)	
NSP	5	CONNECT ASSY	RWZ3421
		(MEZIXK/DI type)	
	6	AC. CONNECT ASSY	RWZ3416
		(MEXK/EA, MEXK/EB and NBXK types)	
	6	AC. CONNECT ASSY	RWZ3422
		(MEZIXK/DI type)	
NSP	7	SP. OUT ASSY	RWZ3417
		(MEXK/EA, MEXK/EB and NBXK types)	
NSP	7	SP. OUT ASSY	RWZ3423
		(MEZIXK/DI type)	
	8		
△	9	STRAIN RELEIF	CM-22B
△	10	POWER CORD WITH PLUG	PDG1003
		(MEXK/EA, MEXK/EB and MEZIXK/DI types)	
△	10	POWER CORD WITH PLUG	PDG1055
		(NBXK type)	
	11	22P F • F • C/30V	RDD1323
△	12	FUSE (T1A, FU2001)	AEK1054
△	13	POWER TRANSFORMER	RTT1285
NSP	14	PCB SPACER (3 × 8)	AEC1371
	15	PCB SPACER (3 × 12)	AEC1372
NSP	16	PCB MOULD	AMR2115
NSP	17	CORD HOLDER	DNF1128
NSP	18	CUSHION A	REB1283
NSP	19	UNDER BASE	RNB1107
NSP	20	HEAT SINK	RNE1825
NSP	21	JOINT L	RNE1826
NSP	22	JOINT R	RNE1827
	23	INSULATOR ASSY	RXA1673
	24		
	25	STA. LENS	AAK7118
	26	AM CONTROL BUTTON	RAC1956
	27	AM BUTTON A	REA1166
	28	AM BUTTON B	REA1167
	29	VOLUME KNOB	AAB7046
	30	AM FRONT PANEL	RAH2502
	31	AM DISPLAY WINDOW	RAH2503
	32	BONNET	REA1181
	33	REAR PANEL	RNK2131
	34	SCREW	ABA1005
	35	SCREW	BBZ30P060FMC

Mark	No.	Description	Parts No.
	36	SCREW	BBZ30P080FZK
	37	SCREW	BBZ30P160FMC
	38	SCREW	CBZ30P080FZK
	39	SCREW	PPZ30P080FMC
	40	SCREW	PPZ30P100FZK
	41	BINDER (SKB-90BK)	Z09-056
	42	SCREW	ABA1024
	43	SCREW	ABA1184
△	44	FUSE (T5A)	PEK1003

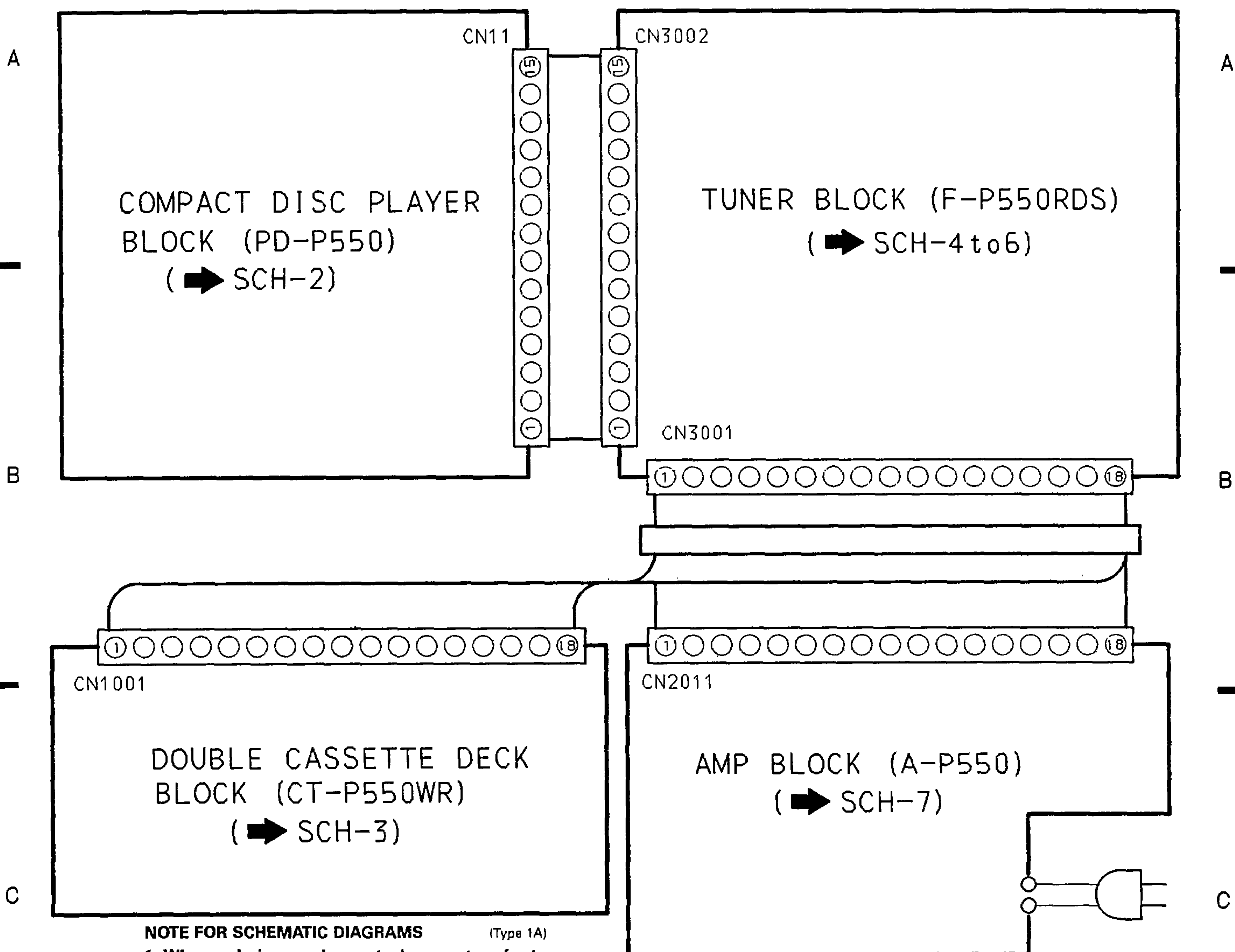
3. BLOCK DIAGRAM



4. SCHEMATIC AND PCB CONNECTION DIAGRAMS

4.1 OVERALL SCHEMATIC DIAGRAM

SCH-1



NOTE FOR SCHEMATIC DIAGRAMS

(Type 1A)

- When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
- Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
- RESISTORS:**
Unit: k: k Ω , M: M Ω , or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ or $\pm 5\%$ unless otherwise noted.
- CAPACITORS:**
Unit: p: pF or μ F unless otherwise noted.
Ratings: capacitor (μ F)/ voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.
- COILS:**
Unit: m: mH or μ H unless otherwise noted.
- 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.
- OTHERS:**
 - ⊙ or ○ : Adjusting point.
 - ⋄ : Measurement point.
 - The Δ 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.
- 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):

- | | |
|---|--|
| <ul style="list-style-type: none"> F-P550RDS
DISPLAY ASSY | <ul style="list-style-type: none"> PD-P550
CD.FUNC ASSY |
| S3301 - (TUNING) | S501 $\Rightarrow$ |
| S3302 + (TUNING) | S502 $\Rightarrow$ |
| S3303 STATION | S503 Δ |
| S3304 FUNCTION | S504 $\Leftarrow$ |
| S3304 FUNCTION (TUNER $\rightarrow$
TAPE $\rightarrow$ CD $\rightarrow$ PHONO-
VIDEO) | S505 $\blacksquare$ |
| S3306 AM | S506 PGM/EDIT |
| S3307 DISPLAY | S507 RANDOM |
| S3308 STATION MEMORY | |
| S3309 MONO | |
| <ul style="list-style-type: none"> A-P550
DISPLAY ASSY | <ul style="list-style-type: none"> CT-P550WR
TC.FUNC ASSY |
| S2501 WAKE-UP | S1901 $\Rightarrow$ |
| S2502 REC (TIMER) | S1902 $\Leftarrow$ |
| S2503 SFC MODE | S1903 REC/PAUSE |
| S2504 ST WIDE | S1904 SELECTOR (DECK I • II) |
| S2505 P. BASS | S1905 $\blacksquare$ |
| S2506 + (CLOCK) | S1906 $\Rightarrow$ |
| S2507 - (CLOCK) | S1907 $\Leftarrow$ |
| S2508 POWER | S1951 ASES/COPY |
| S2509 SLEEP | S1952 DOLBY NR ON/OFF |

OVERALL SCHEMATIC DIAGRAM

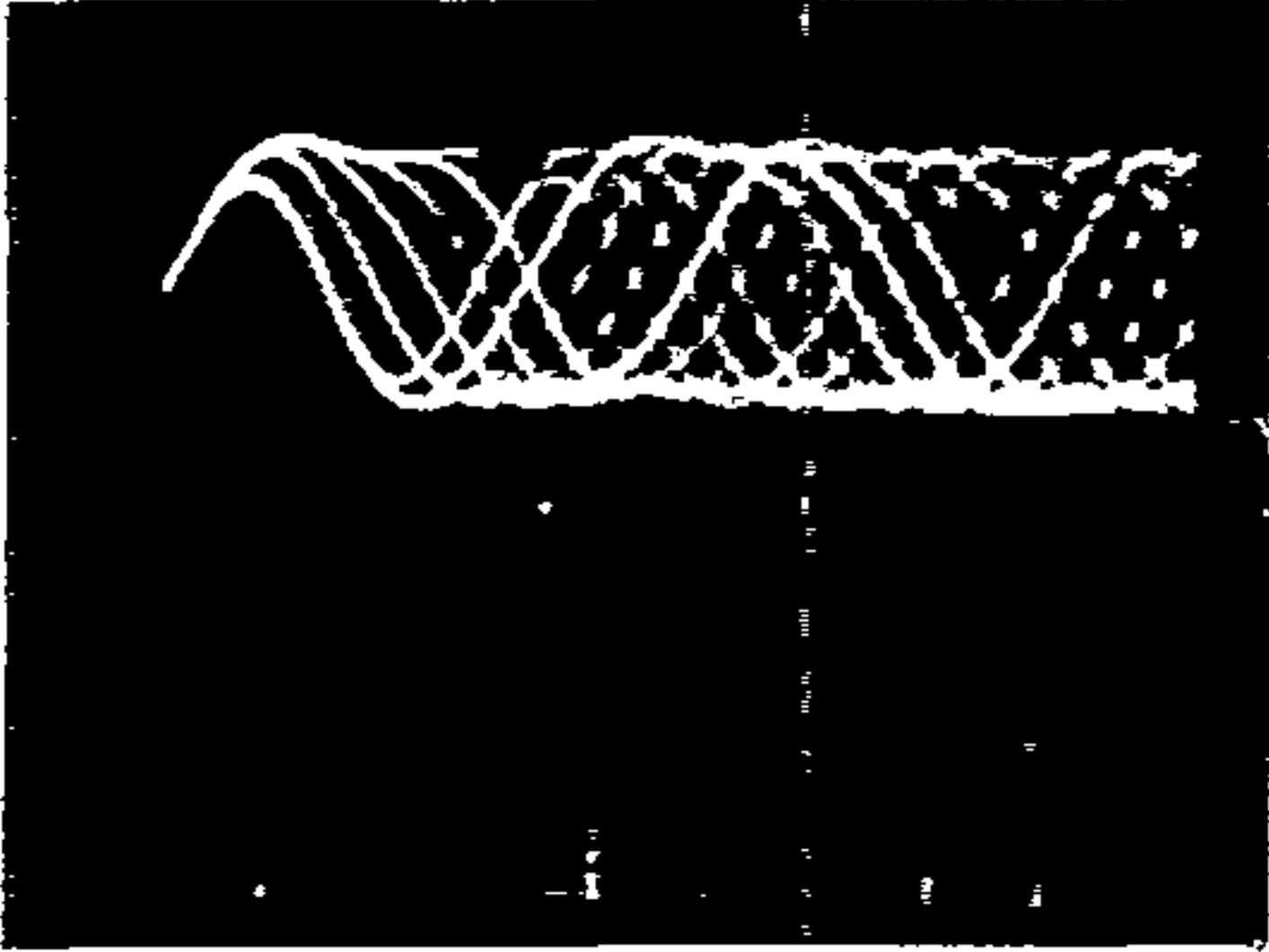
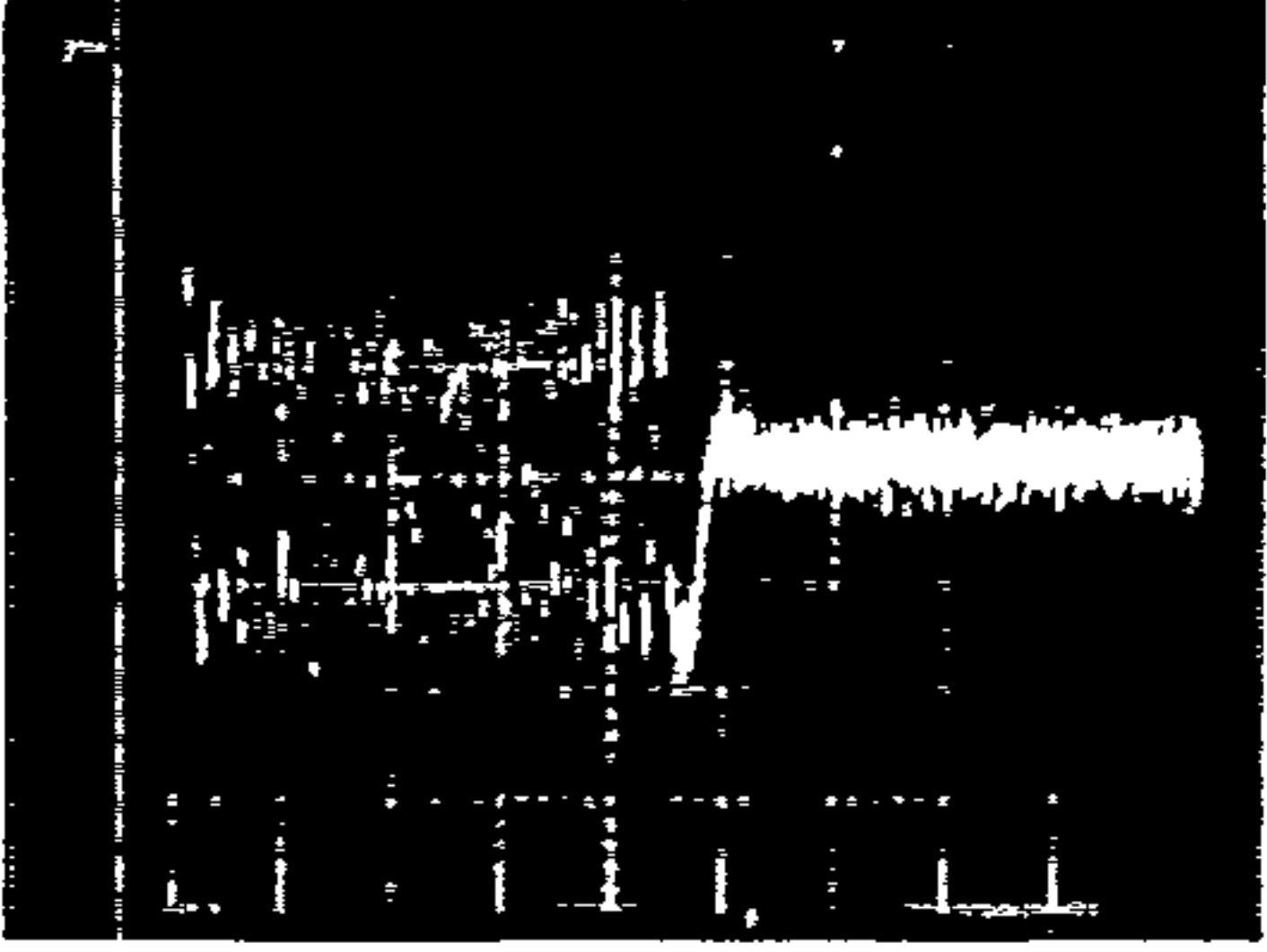
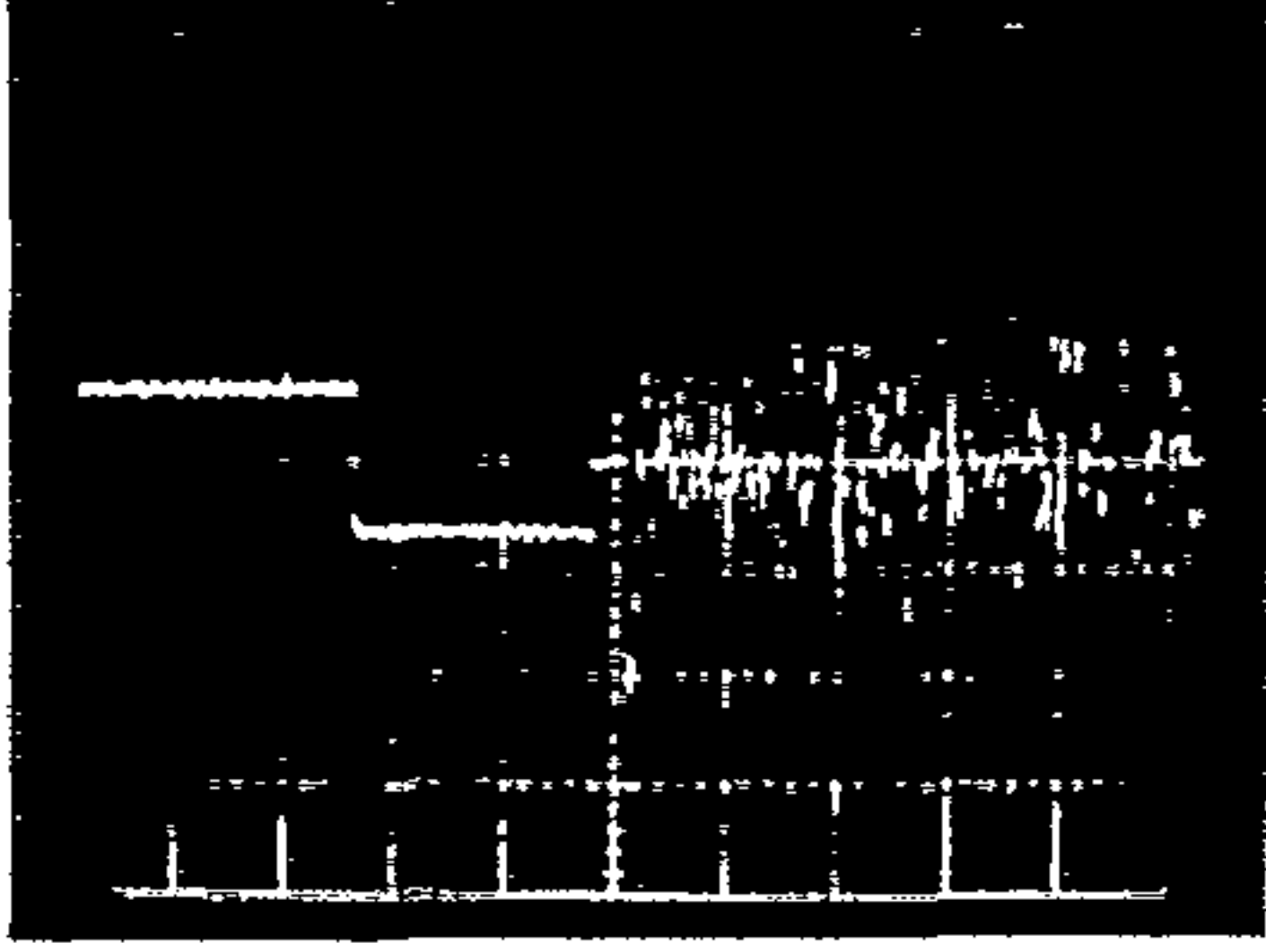
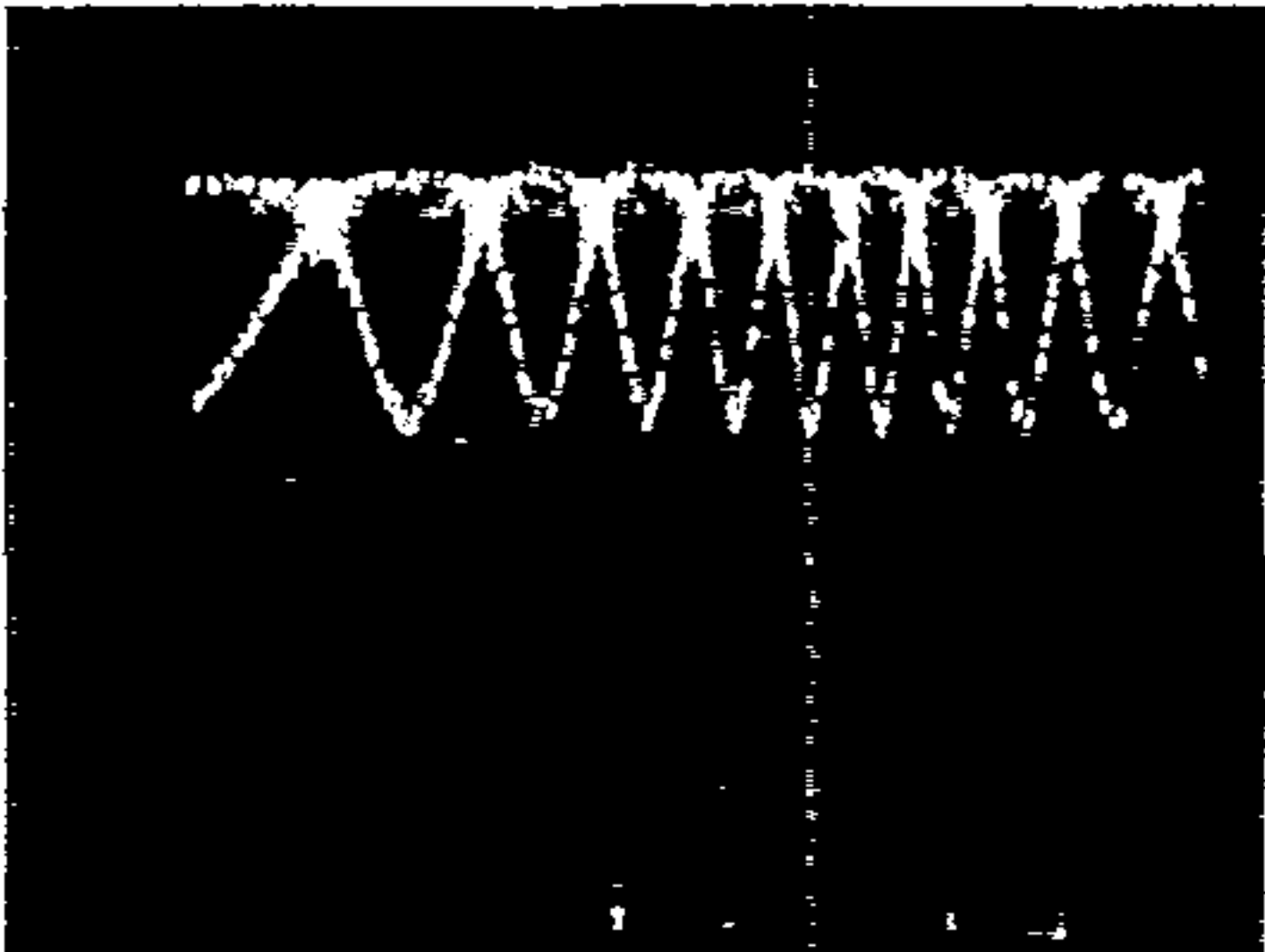
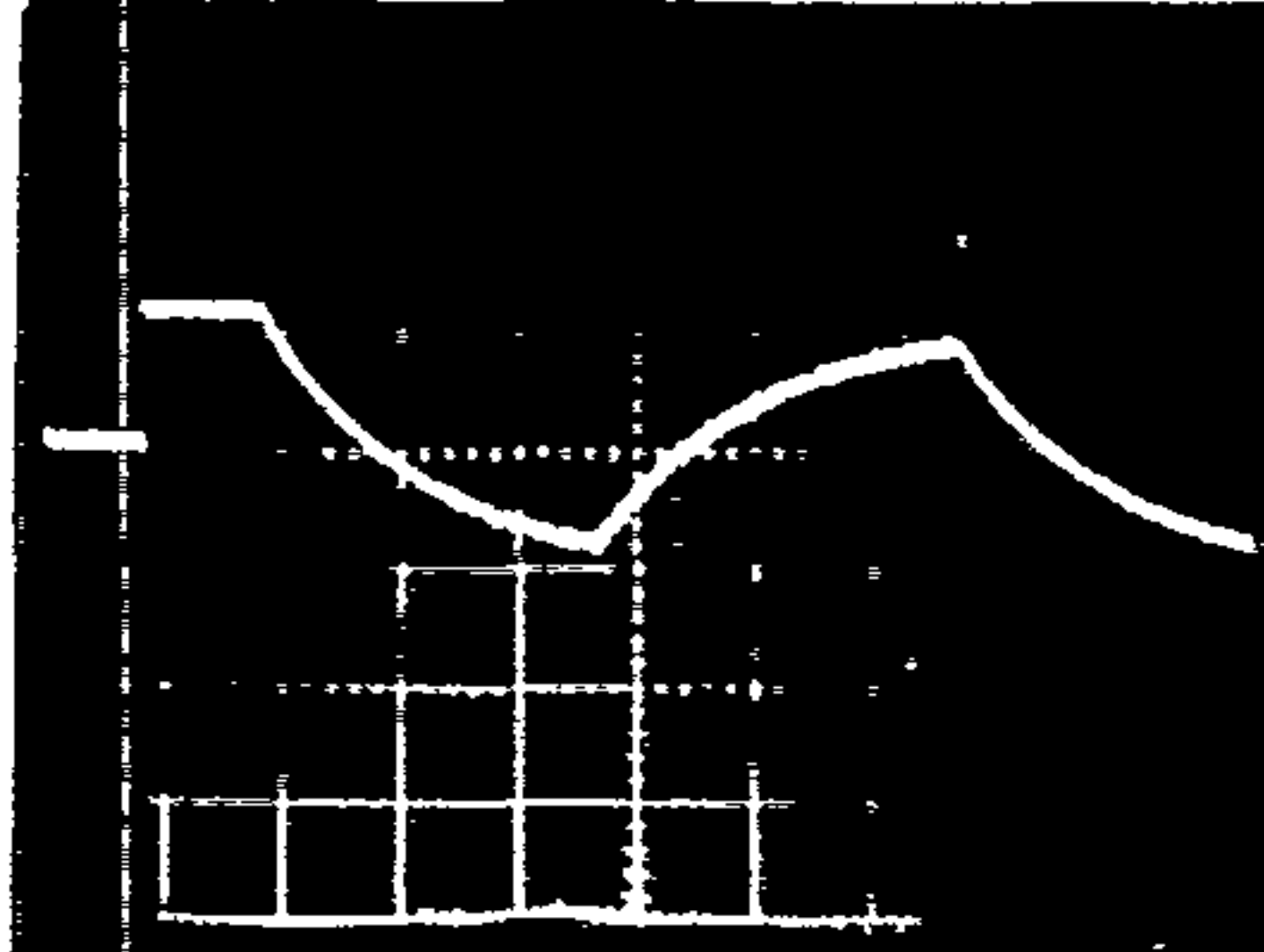
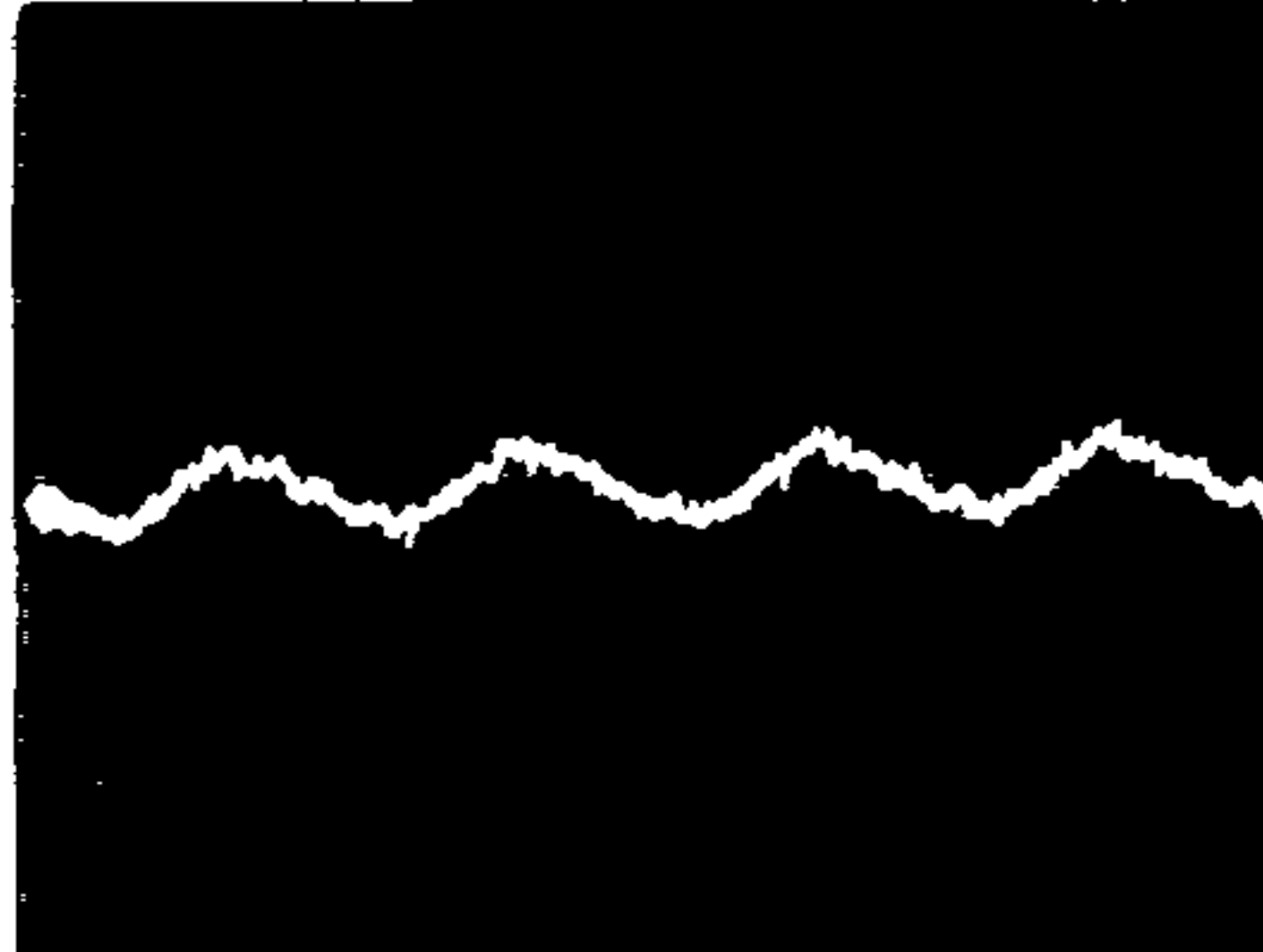
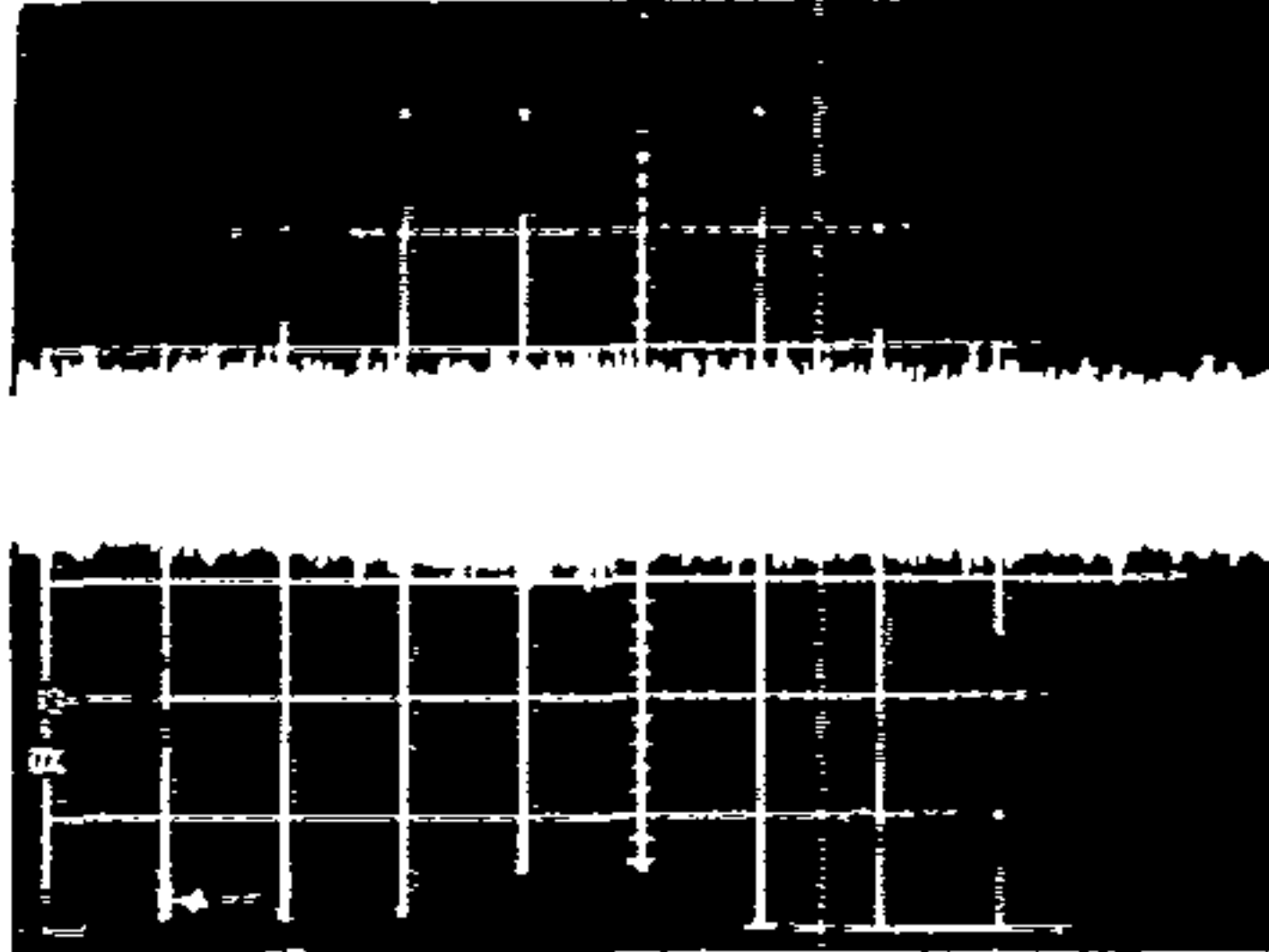
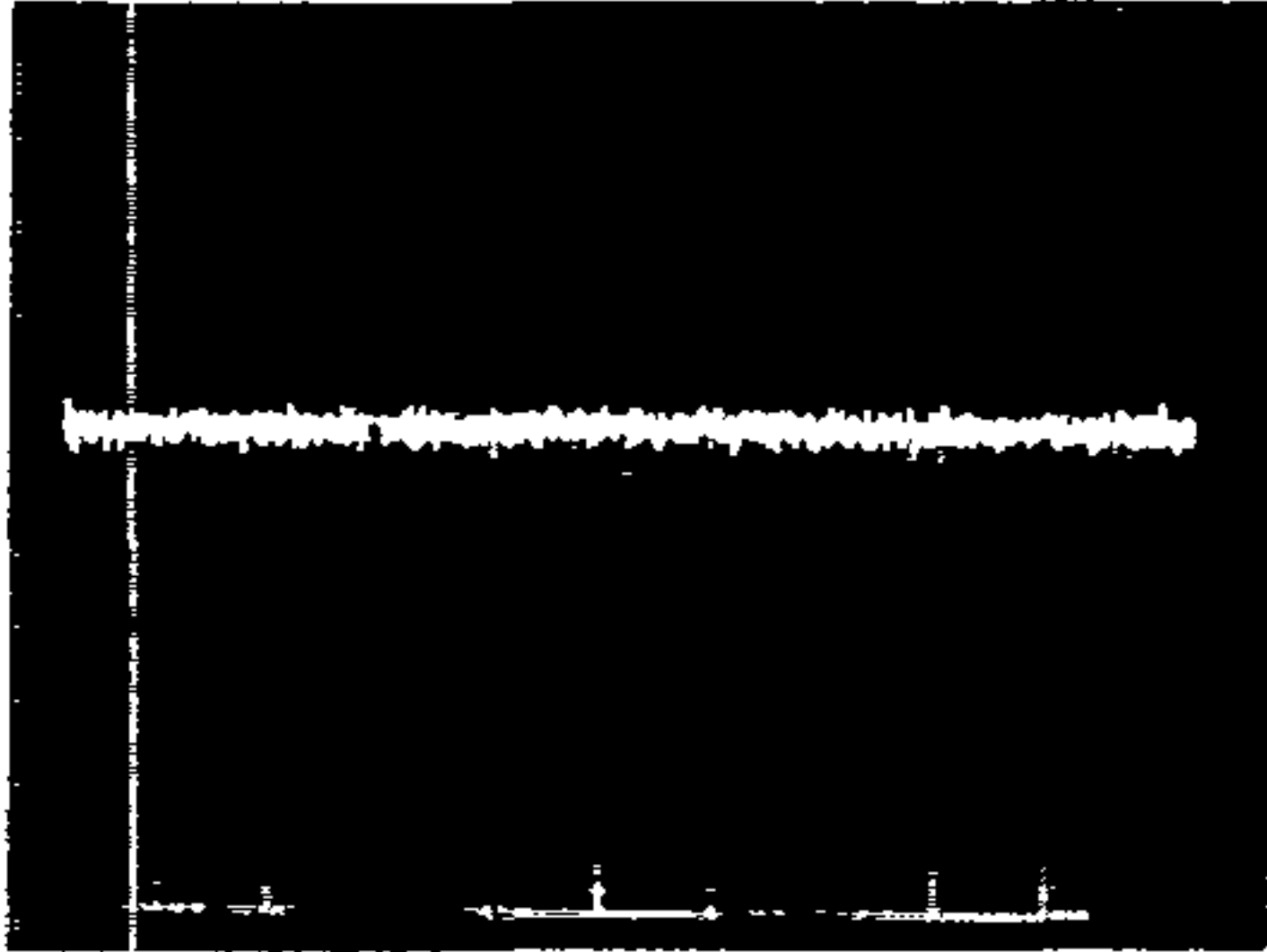
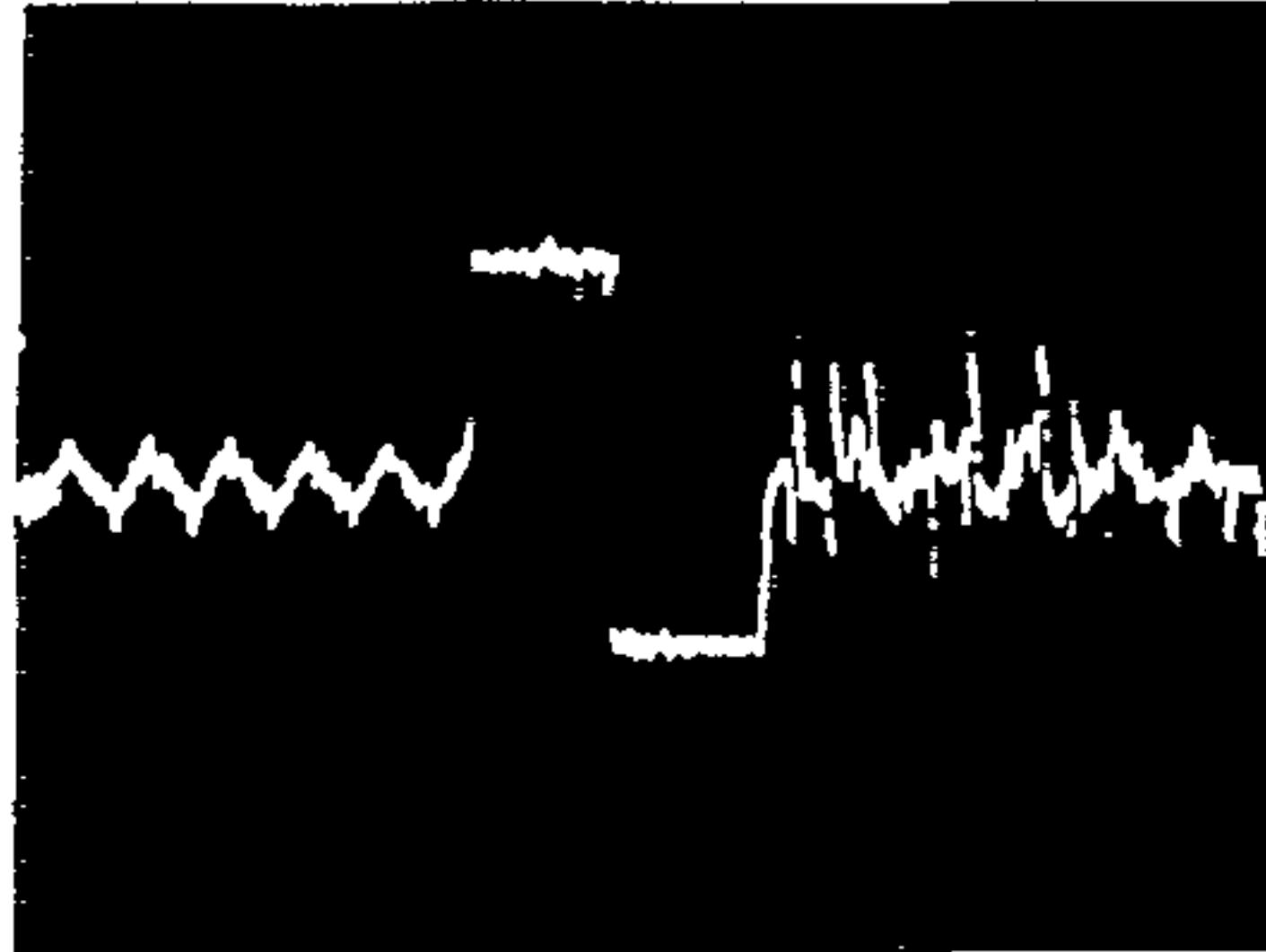
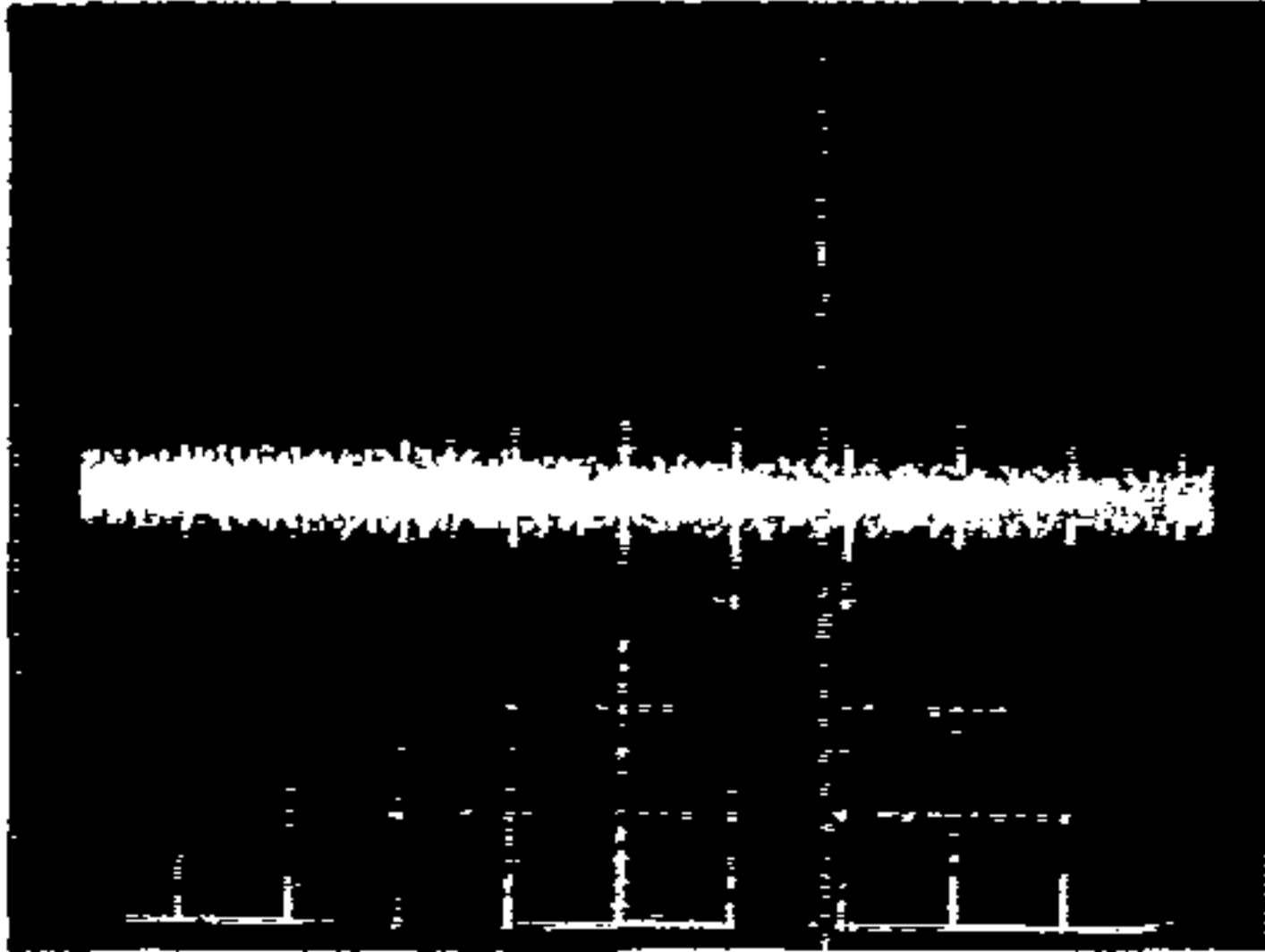
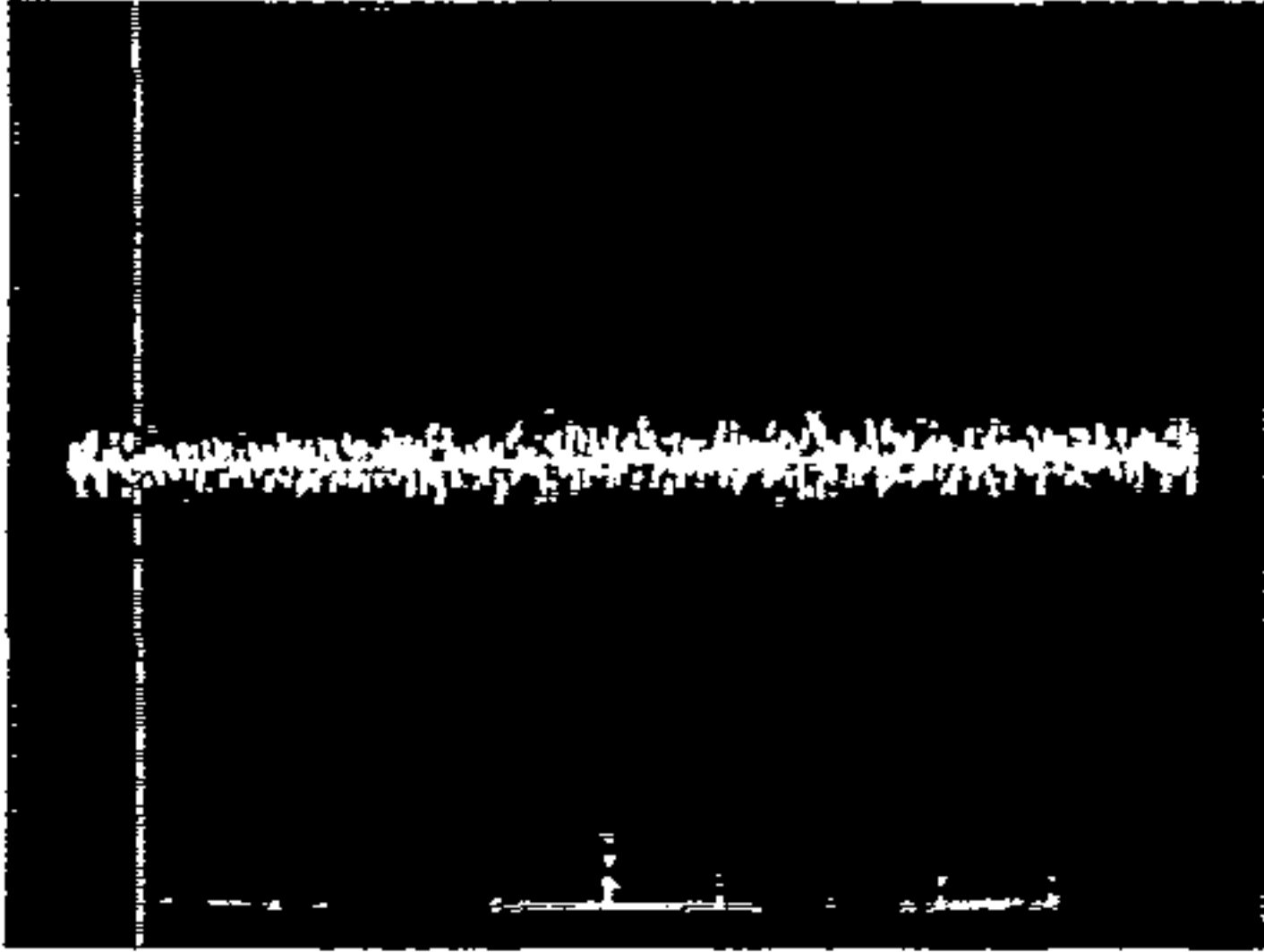
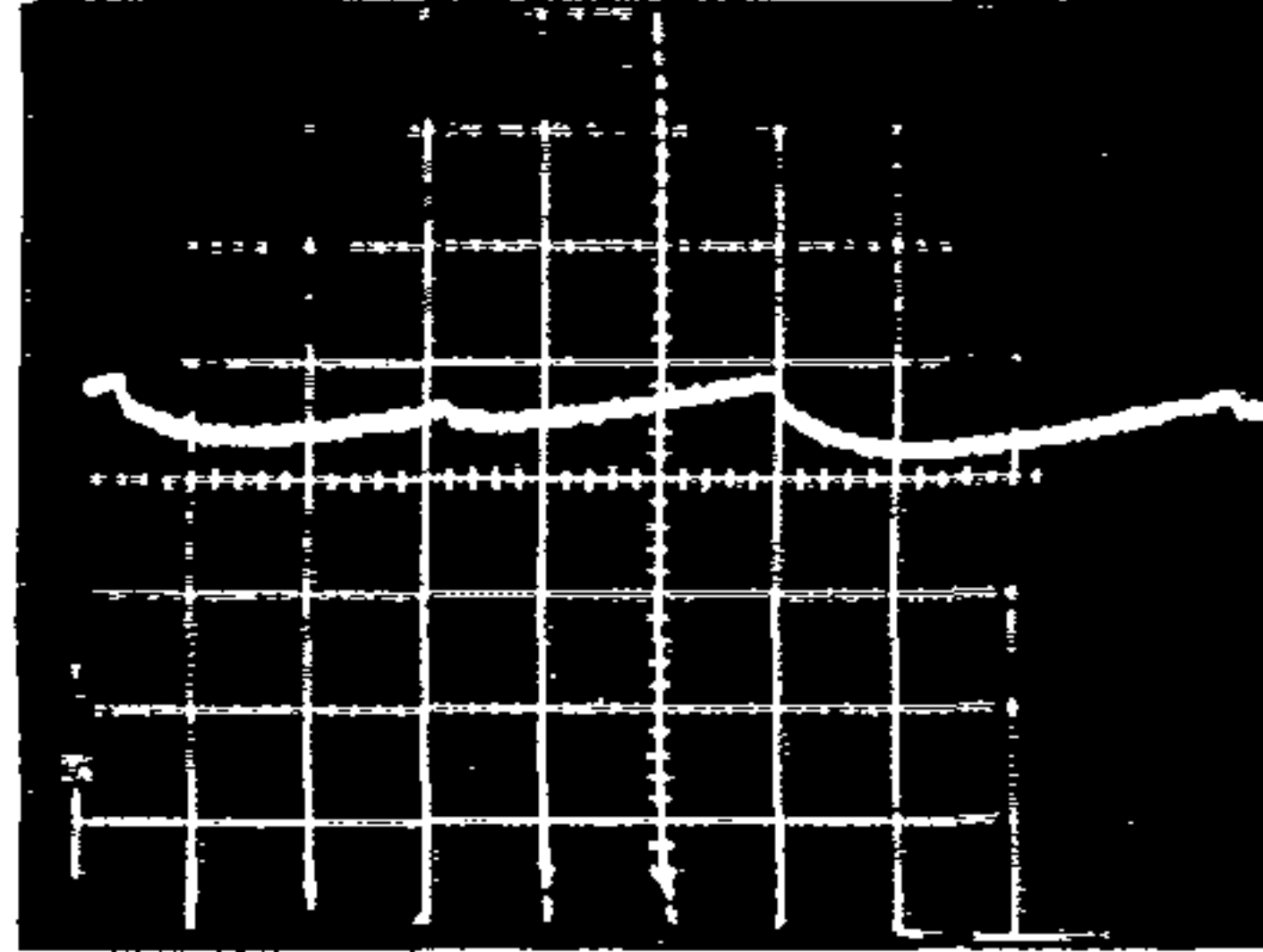
SCH-1

4.2 COMPACT DISC PLAYER (PD – P550)
■ CD. MAIN ASSY, CD. FUNC ASSY AND SINGLE MECHA ASSY

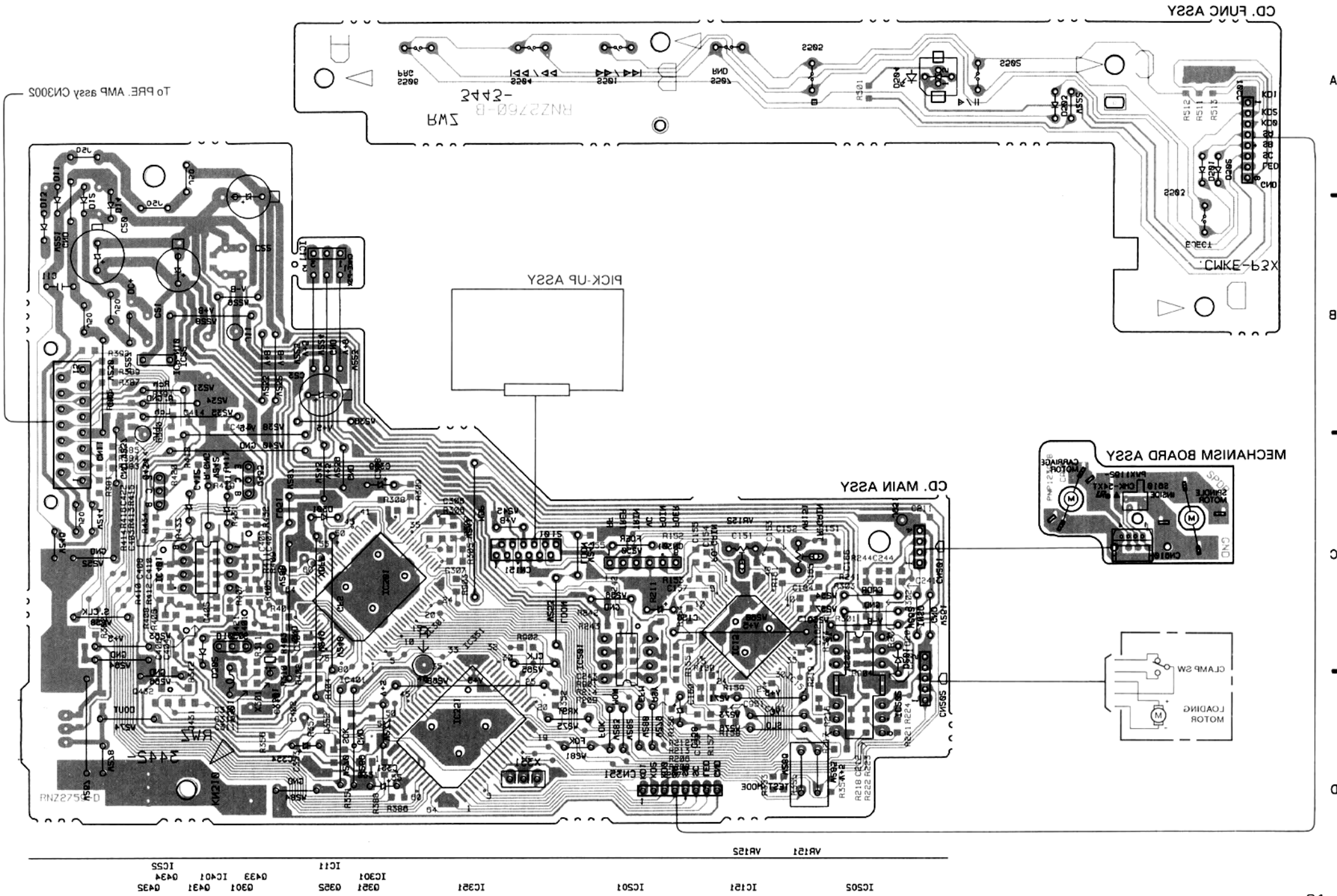
Waveforms

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 key without loading a disc.

2 TP1-Pin1: PLAY MODE (RF) 500mV/div 500nsec/div  - VC	4 TP1-Pin2: 50T-JUMP (*1) MODE (TRER) 1V/div 1msec/div  - VC	6 IC201-Pin3: 50T-JUMP (*1) MODE (TRDR) 500mV/div 1msec/div  - GND
2 TP1-Pin1: TRACK SEARCH MODE (RF) 500mV/div 200μsec/div  - VC	5 IC201-Pin1: FOCUS-IN (*2) MODE (FODR) 1V/div 200msec/div  - GND	7 IC202-Pin3: PLAY MODE (SPDR) 2V/div 50msec/div  - GND
3 TP1-Pin6: PLAY MODE (FOER) 100mV/div 10msec/div  - VC	5 IC201-Pin1: PLAY MODE (FODR) 1V/div 1msec/div  - GND	7 IC202-Pin3: TRACK SEARCH MODE (SPDR) 2V/div 200msec/div  - GND
4 TP1-Pin2: PLAY MODE (TRER) 1V/div 10msec/div  - VC	6 IC201-Pin3: PLAY MODE (TRDR) 500mV/div 1msec/div  - GND	8 IC202-Pin9: PLAY MODE (CADR) 0.5V/div 2S/div  - GND

• This diagram is viewed from the foil side.



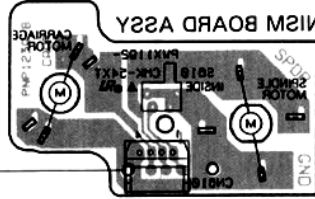
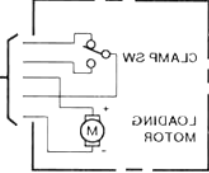
CD. FUNC ASSY

CWKE-P2X

MECHANISM BOARD ASSY

CD. MAIN ASSY

PICK-UP ASSY



AR121 AR125

IC505

IC121

IC501

IC921

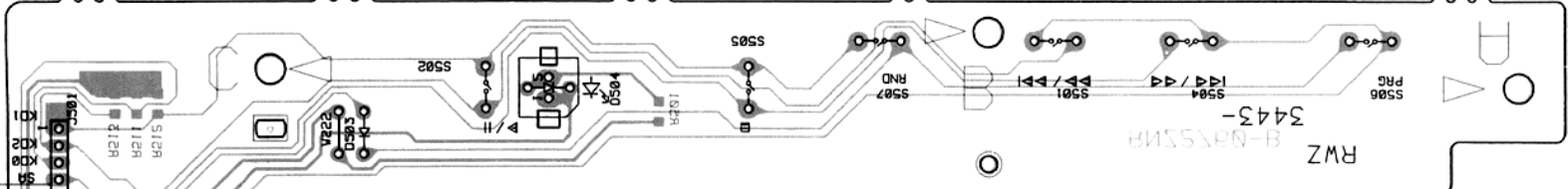
IC301 IC325

IC301 IC325 IC33 IC34 IC35

To PRE. AMP assy CN3005

• This diagram is viewed from the mounted parts side.

CD. FUNC ASSY



To PRE. AMP assy CN3002

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 C shows the emitter.
- 4. The diode terminal marked with @ or C shows cathode side.
- 5. The capacitor terminal marked with @ or C shows negative terminal.

NOTE FOR PCB DIAGRAMS:

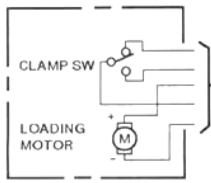
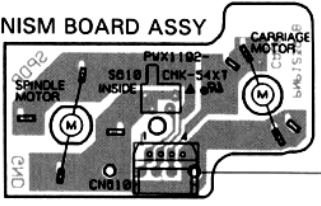
- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

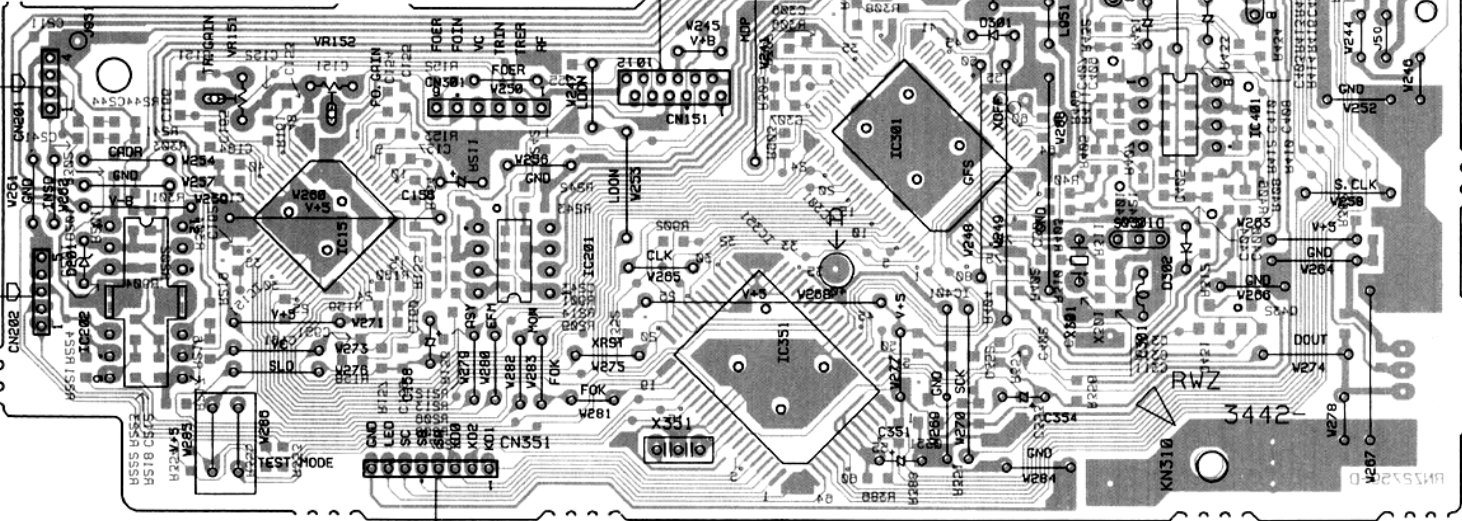
PICK-UP ASSY



MECHANISM BOARD ASSY



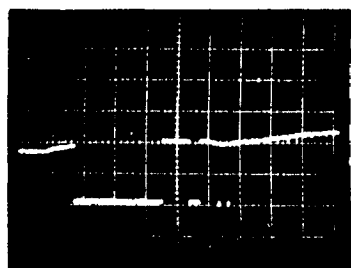
CD. MAIN ASSY



- IC202
- IC151
- IC201
- IC351
- IC301
- IC11
- Q351
- Q352
- Q433
- Q301
- IC401
- Q431
- IC22
- Q434
- Q432

C

- ⑧ IC202-Pin9: TRACK SEARCH MODE (CADR)
2V/div 200msec/div



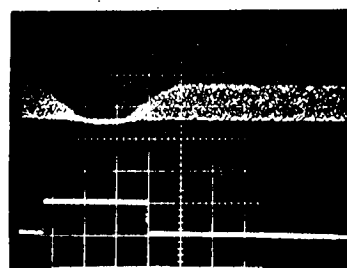
-GND

- ⑪ IC301-Pin70: PLAY MODE (1kHz) (LPWM) (D/A DATA OUT)
2V/div 500μsec/div



-GND

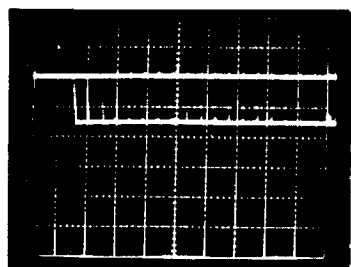
- ②④ : PLAY MODE
Upper: TP1-Pin1 (RF) 1V/div
Lower: IC151-Pin30 (DFCT)
5V/div 200μsec/div



-GND

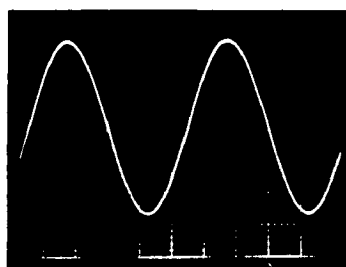
-GND

- ⑨ IC151-Pin32: PLAY MODE (EFM)
2V/div 500nsec/div



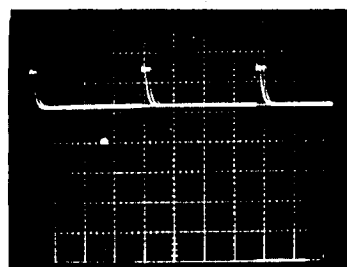
-GND

- ②① CN11-Pin8: PLAY MODE (1kHz) (CDL)
1V/div 200μsec/div



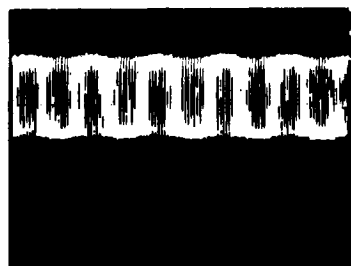
-GND

- ③③ IC301-Pin25: PLAY MODE (MDP)
2V/div 2μsec/div



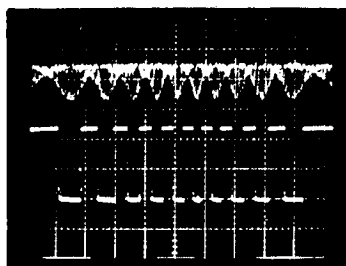
-GND

- ⑩ IC301-Pin69: PLAY MODE (1kHz) (NLPWM) (D/A DATA OUT)
2V/div 500μsec/div



-GND

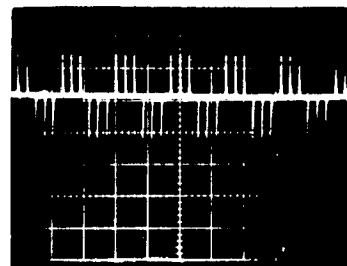
- ②③ : TRACK SEARCH MODE
Upper: TP1-Pin1 (RF) 1V/div
Lower: IC151-Pin29 (MIRR)
2V/div 200μsec/div



-VC

-GND

- ⑤③ IC301-Pin31: PLAY MODE (PCO)
2V/div 10μsec/div

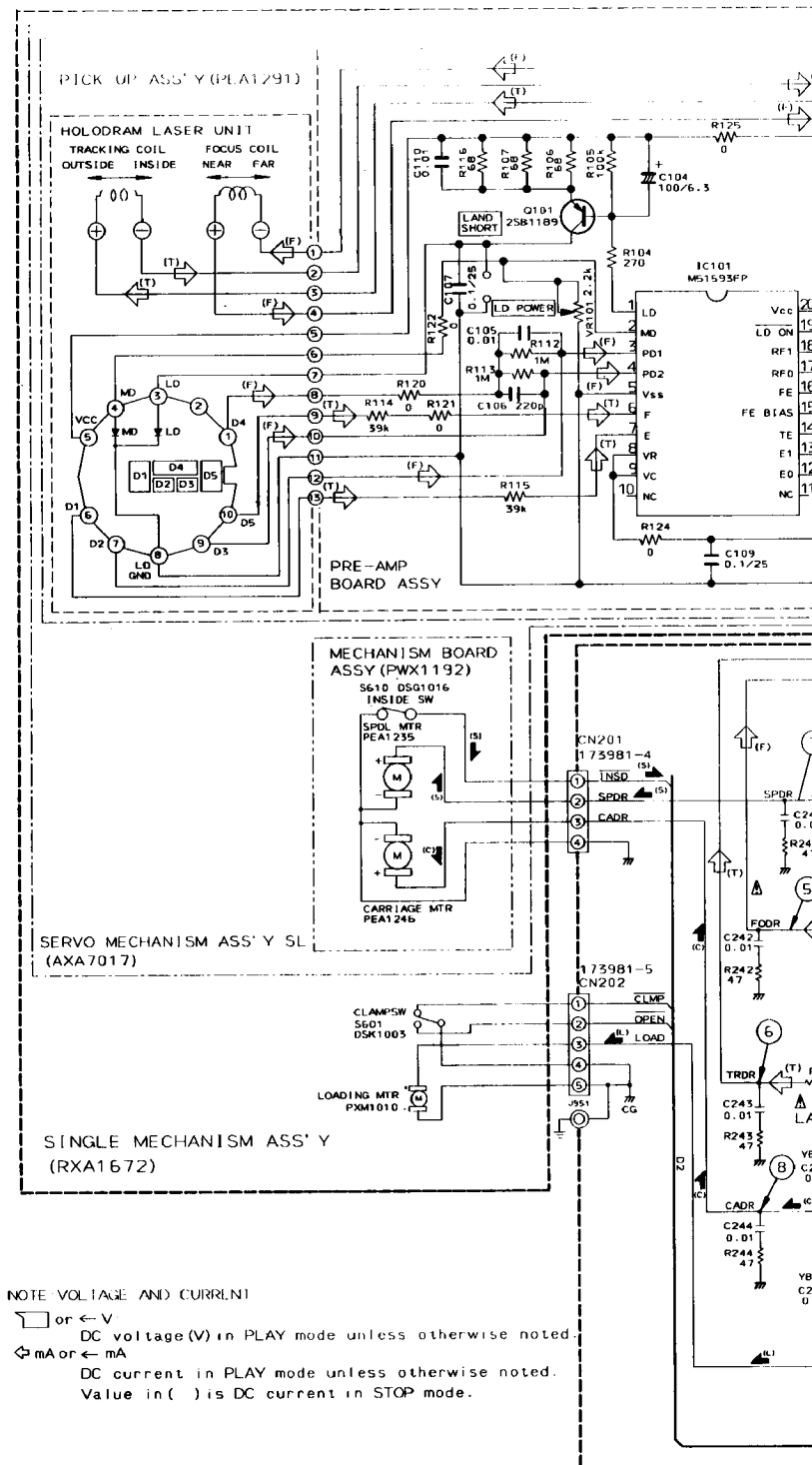


-GND

D

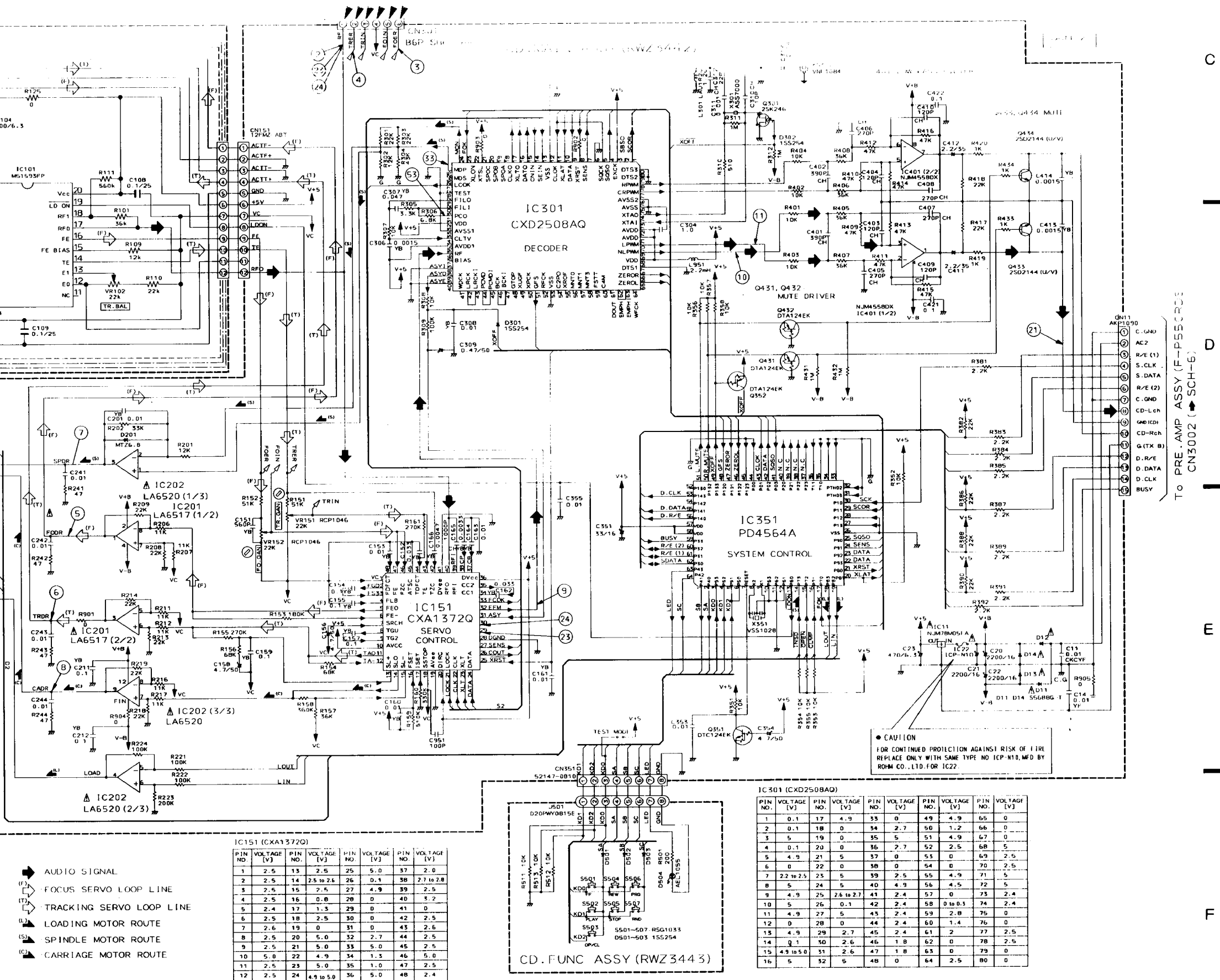
E

F



SCH-2

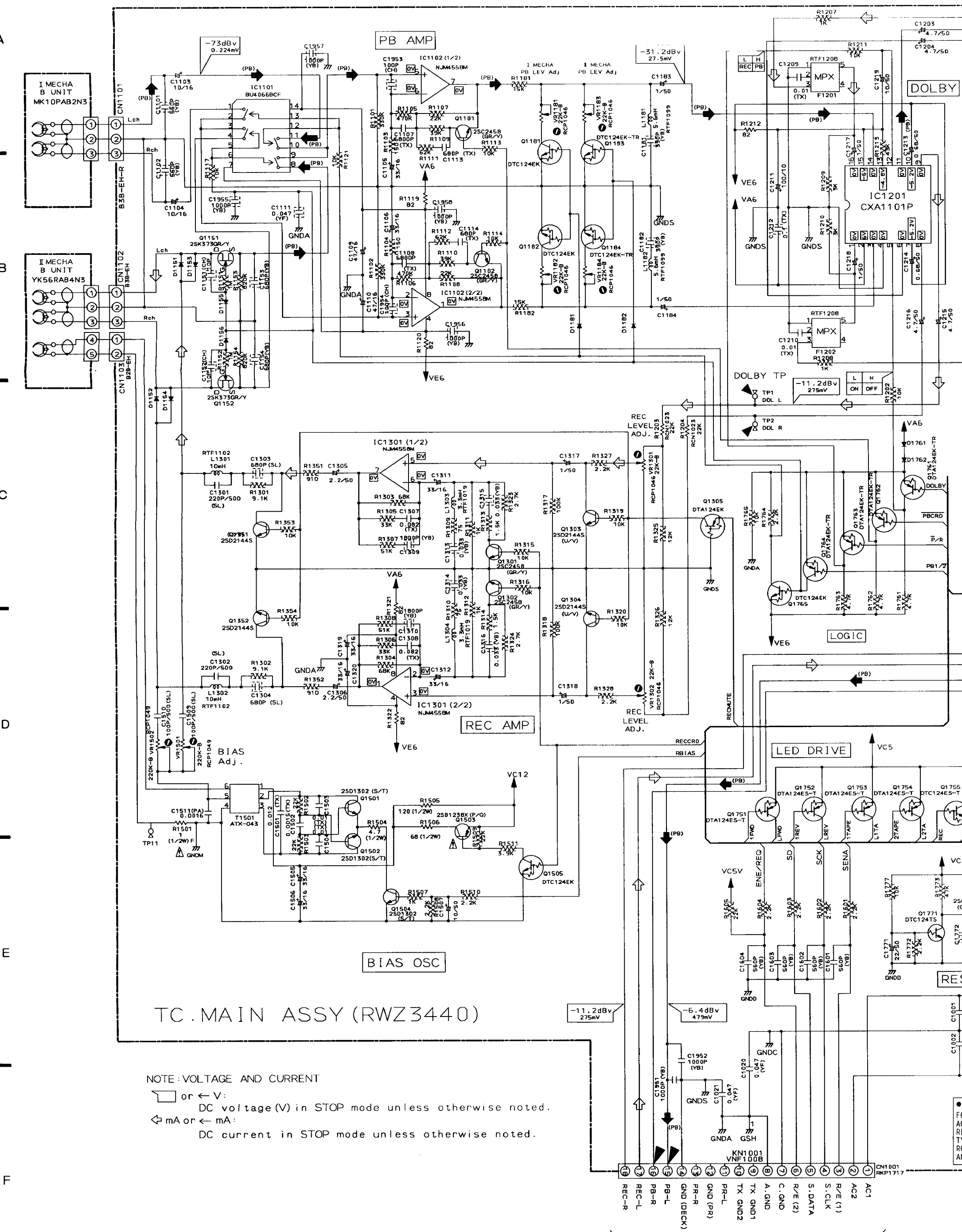
COMPACT DISC PLAYER (PD-P550)
(CD. MAIN ASSY, CD. FUNC ASSY,
SINGLE MECHA ASSY)



COMPACT DISC PLAYER (PD-P550)
(CD. MAIN ASSY, CD. FUNC ASSY,
SINGLE MECHA ASSY)

SCH-2

4.3 STEREO DOUBLE CASSETTE DECK (CT-P550WR)
■ TC. MAIN ASSY, TC. FUNC ASSY AND MECHANISM UNIT

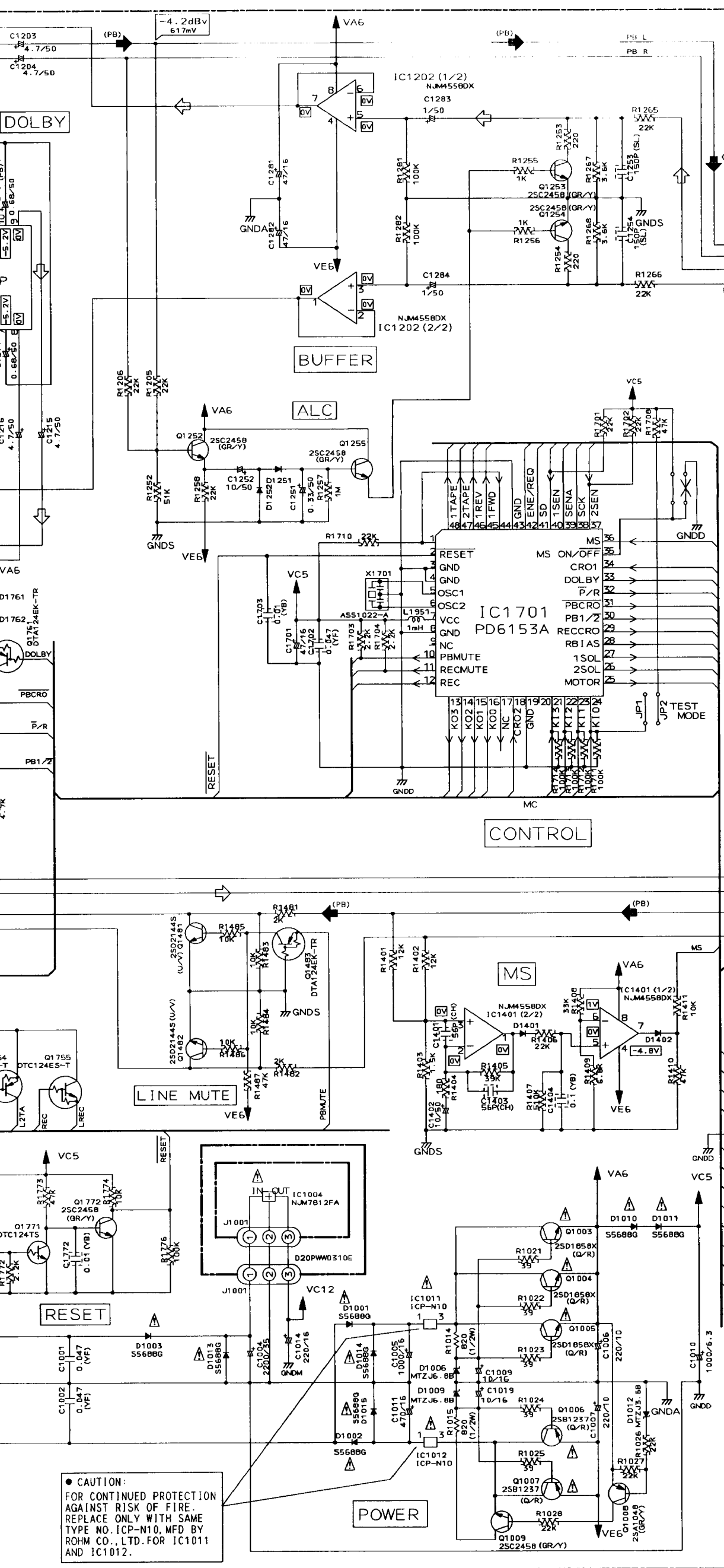


NOTE: VOLTAGE AND CURRENT
□ or ← V:
DC voltage (V) in STOP mode unless otherwise noted.
← mA or ← mA:
DC current in STOP mode unless otherwise noted.

SCH-3

STEREO DOUBLE CASSETTE DECK (CT-P550WR)
(TC. MAIN ASSY, TC. FUNC ASSY,
MECHANISM UNIT)

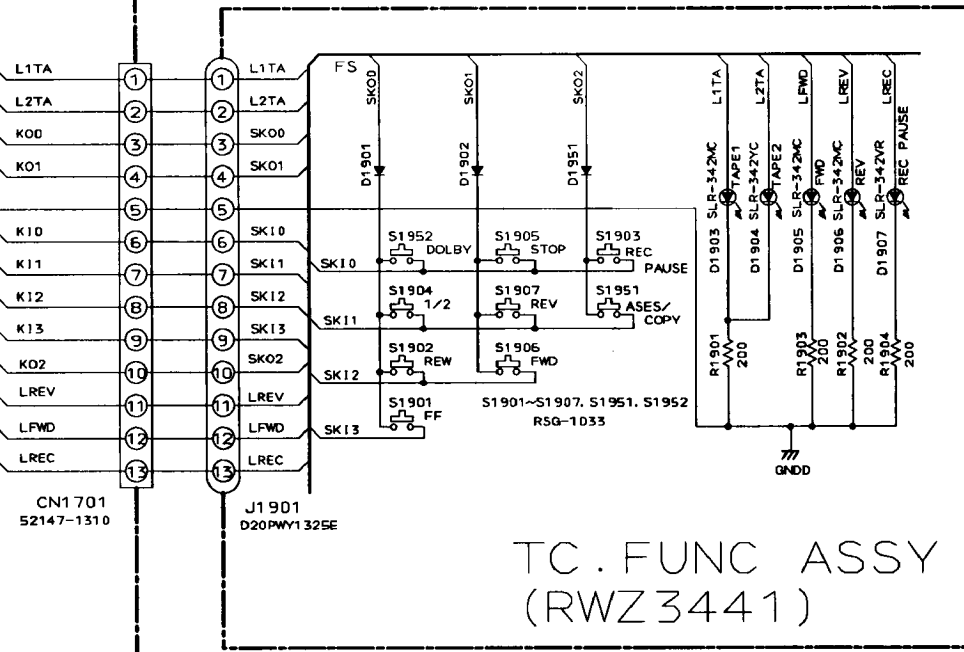
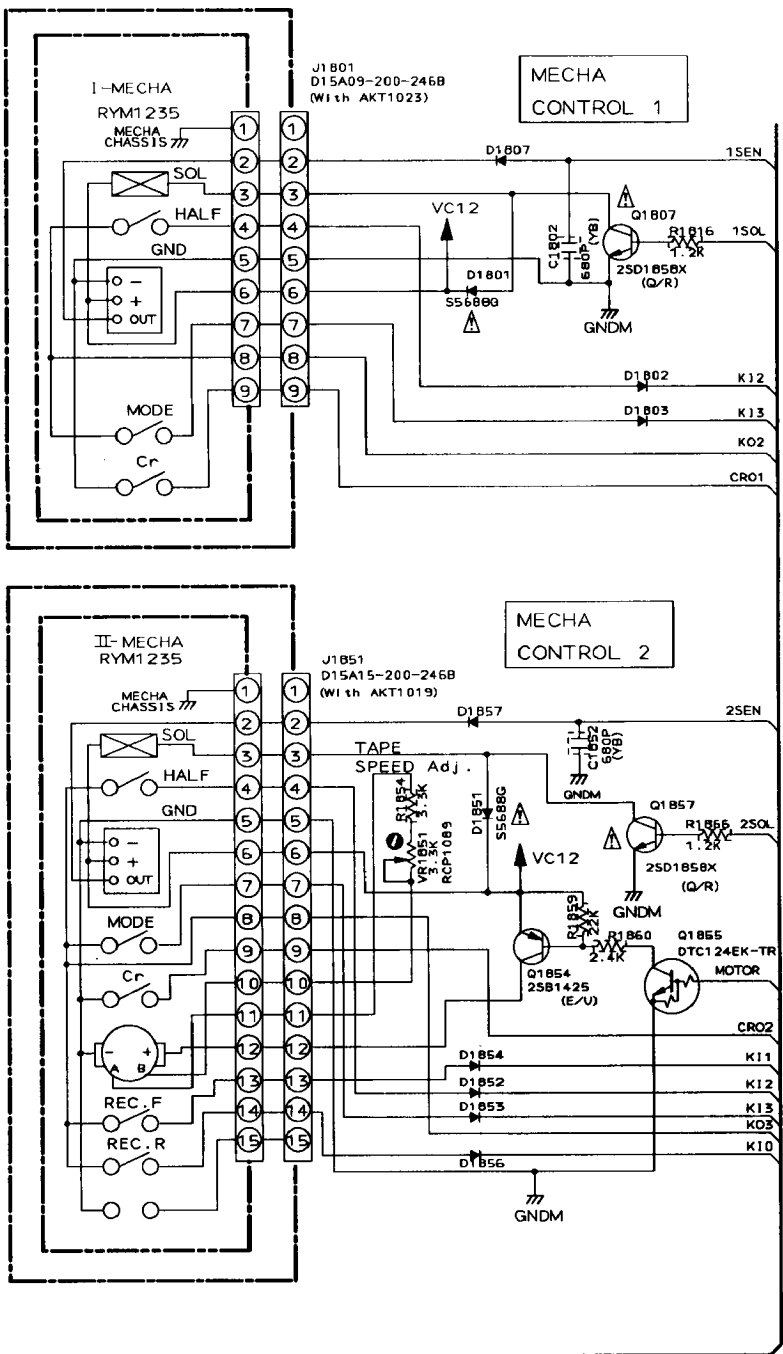
To PRE. AMP ASSY CN3001(→SCH-6)
and MAIN ASSY CN2011(→SCH-7)



(PB) → DECK PB SIGNAL
→ DECK REC SIGNAL

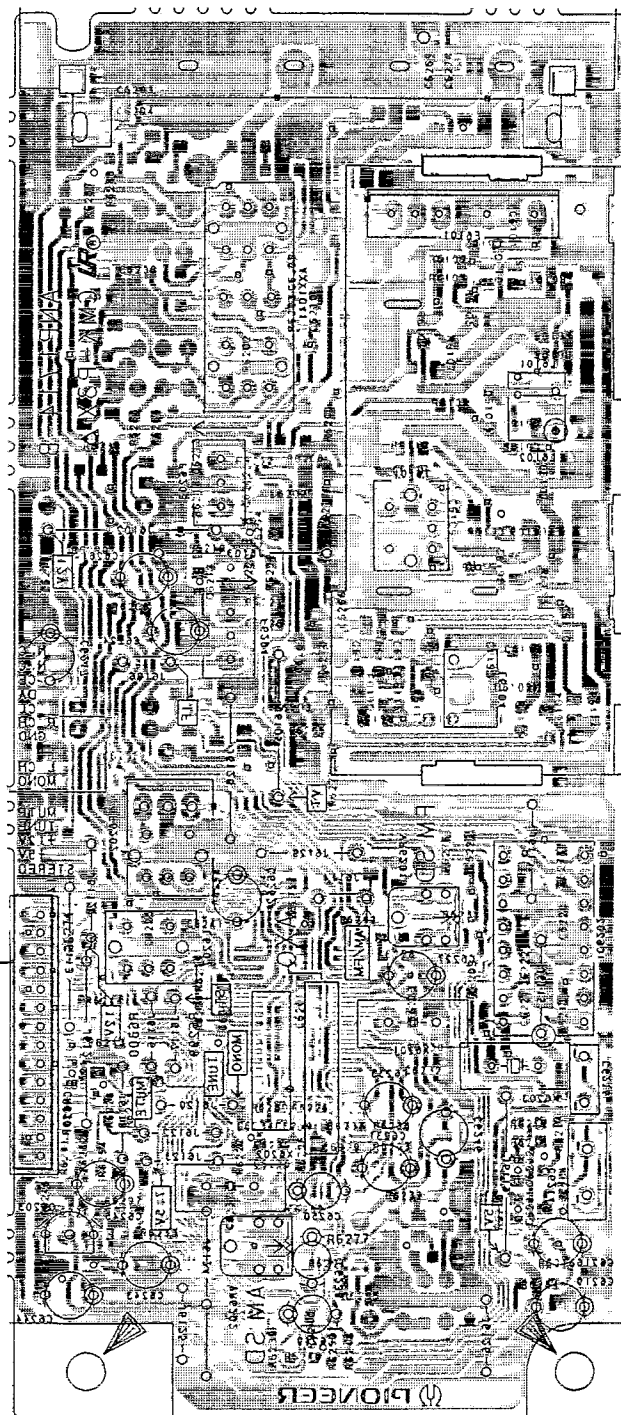
SCH-3

Any diode without part number indicates 1SS254.



FM\AM TUNER MOD. (RD2)\HE (Except MEZIK\DI)
4.4 FM\AM DIGITAL SYNTHESIZER TUNER (F-P550RD2)

FM\AM TUNER MOD. (RD2)\HE



TO PRE. AMP assy CN3103

- This diagram is viewed from the foil side.

4.4 FM/AM DIGITAL SYNTHESIZER TUNER (F-P550RDS)

■ FM/AM TUNER MOD. (RDS)/HE (Except MEZIXK/DI)

FM/AM TUNER MOD. (RDS)/HE

Q6101

Q6204

Q6102 Q6214

Q6103
Q6104

IC6202

IC6201

Q6217

Q6202

Q6201

Q6203

VR6201

VR6202

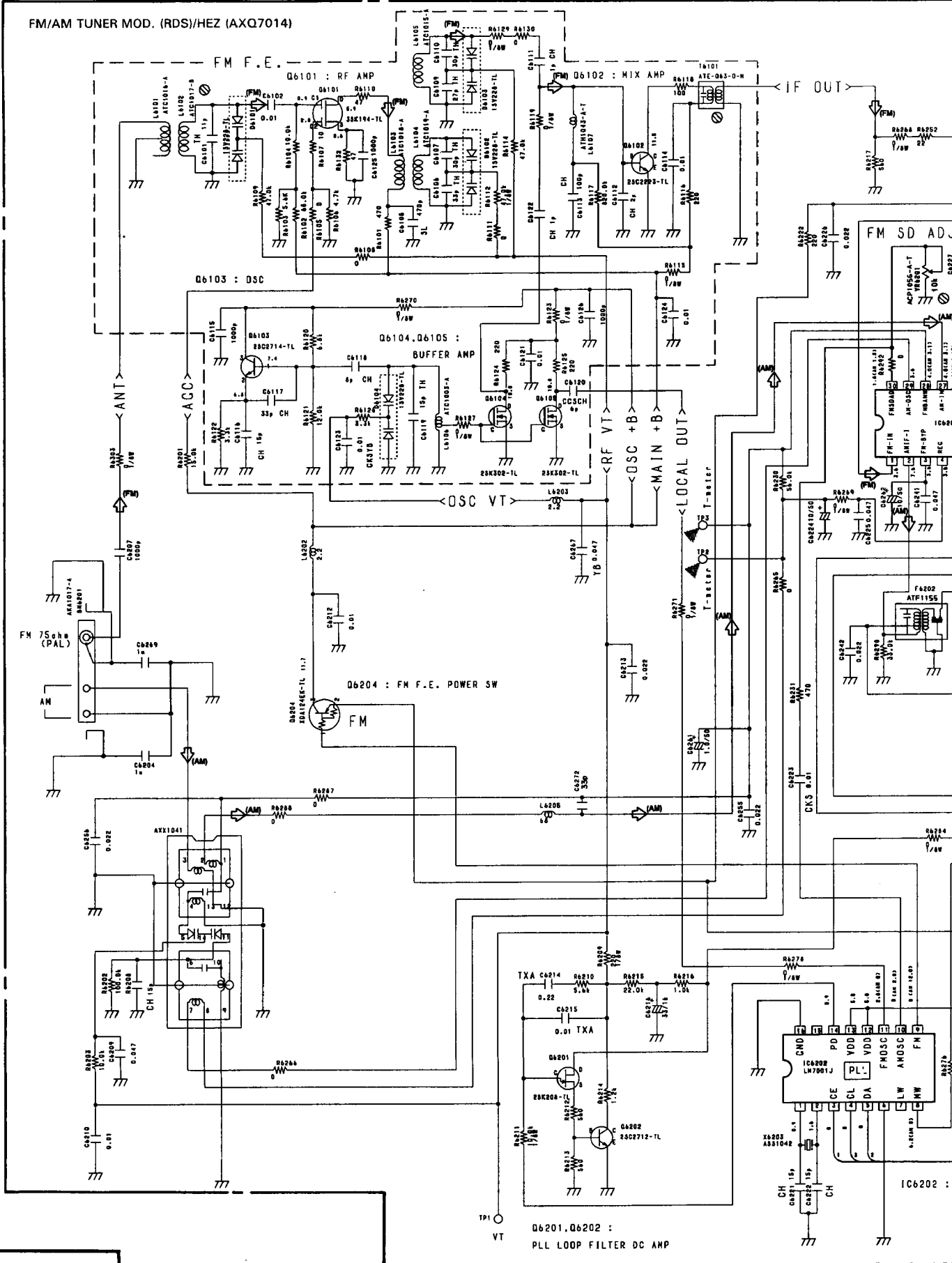
To PRE. AMP assy CN3103

PIONEER

• This diagram is viewed from the mounted parts side.

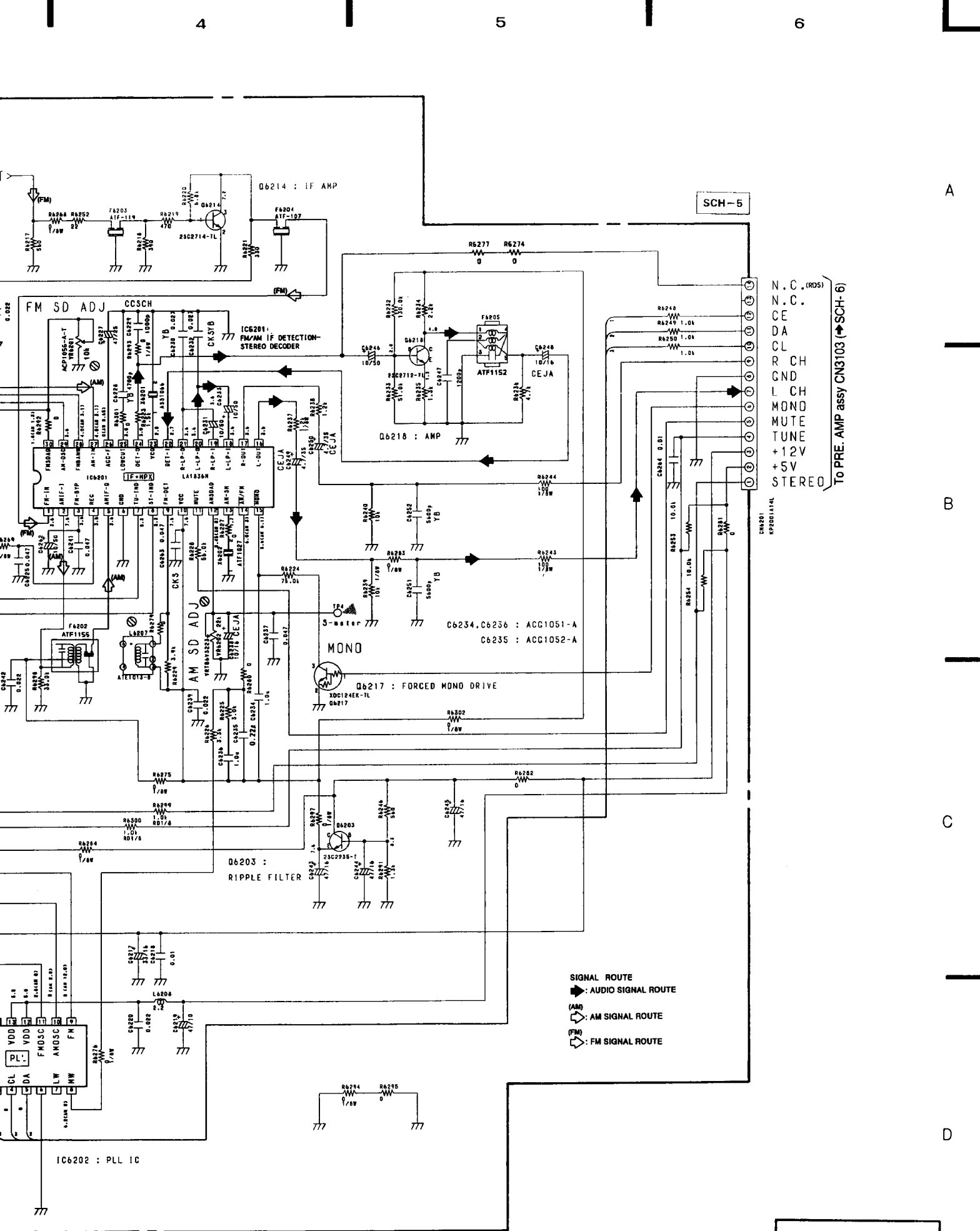
FM/AM TUNER MOD. (RDS)/HEZ (MEZIXK/DI type)

FM/AM TUNER MOD. (RDS)/HEZ (AXQ7014)



SCH-5

FM/AM DIGITAL SYNTHESIZER TUNER (F-P550RDS)
(FM/AM TUNER MOD. (RDS)/HEZ)



FM/AM DIGITAL SYNTHESIZER TUNER (F-P550RDS)
(FM/AM TUNER MOD. (RDS)/HEZ)

SCH-5

FM/AM TUNER MOD. (RDS)/HEZ

A

A

Q6101

B

B

Q6204

Q6102

Q6214

Q6104

Q6103

Q6105

C

C

IC6202

VR6201

IC6201

Q6217

Q6202

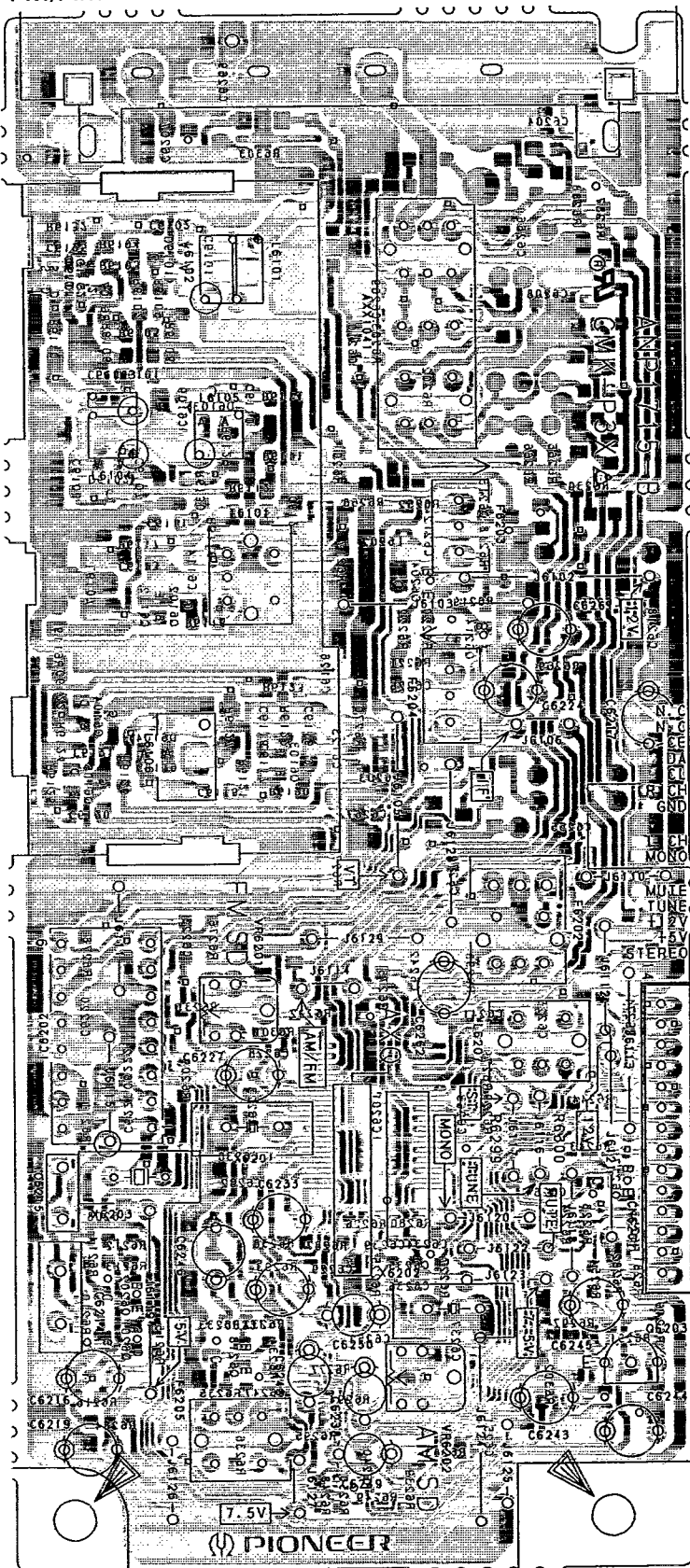
Q6201

Q6218 Q6203

VR6202

D

D



To PRE. AMP assy CN3103

• This diagram is viewed from the mounted parts side.

A

B

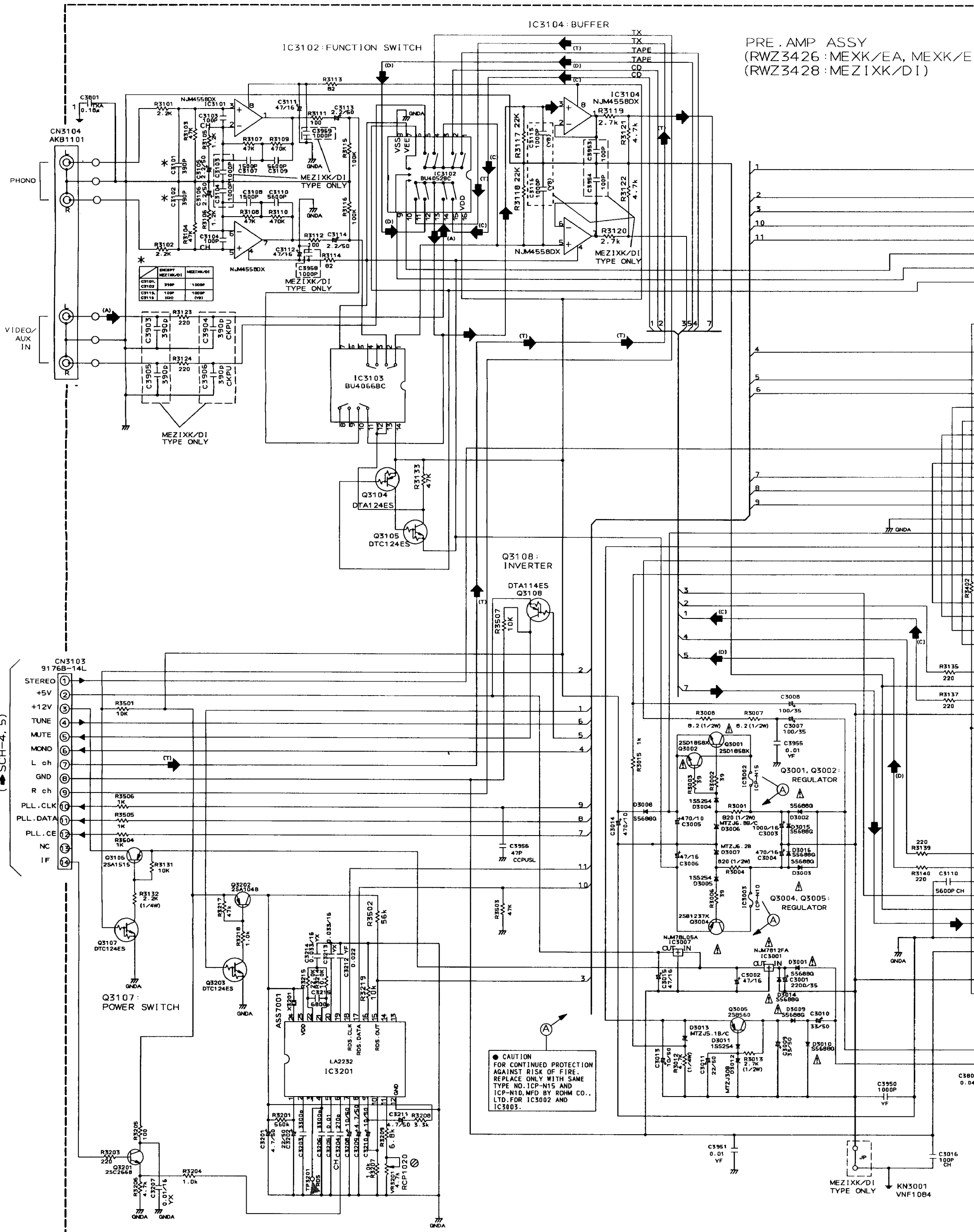
C

D

E

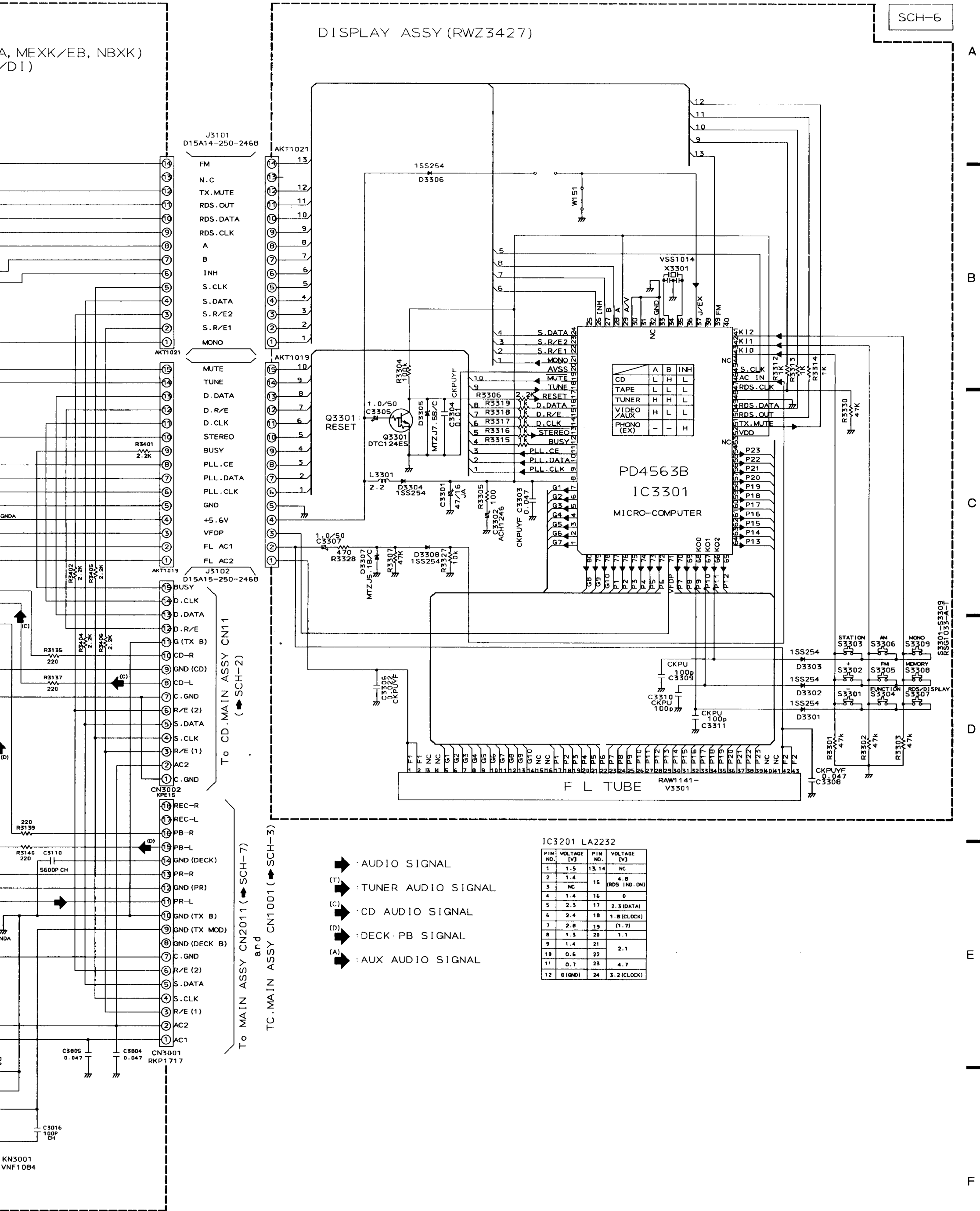
F

To FM/AM TUNER MOD. CN6201
(SCH-4, 5)



SCH-6

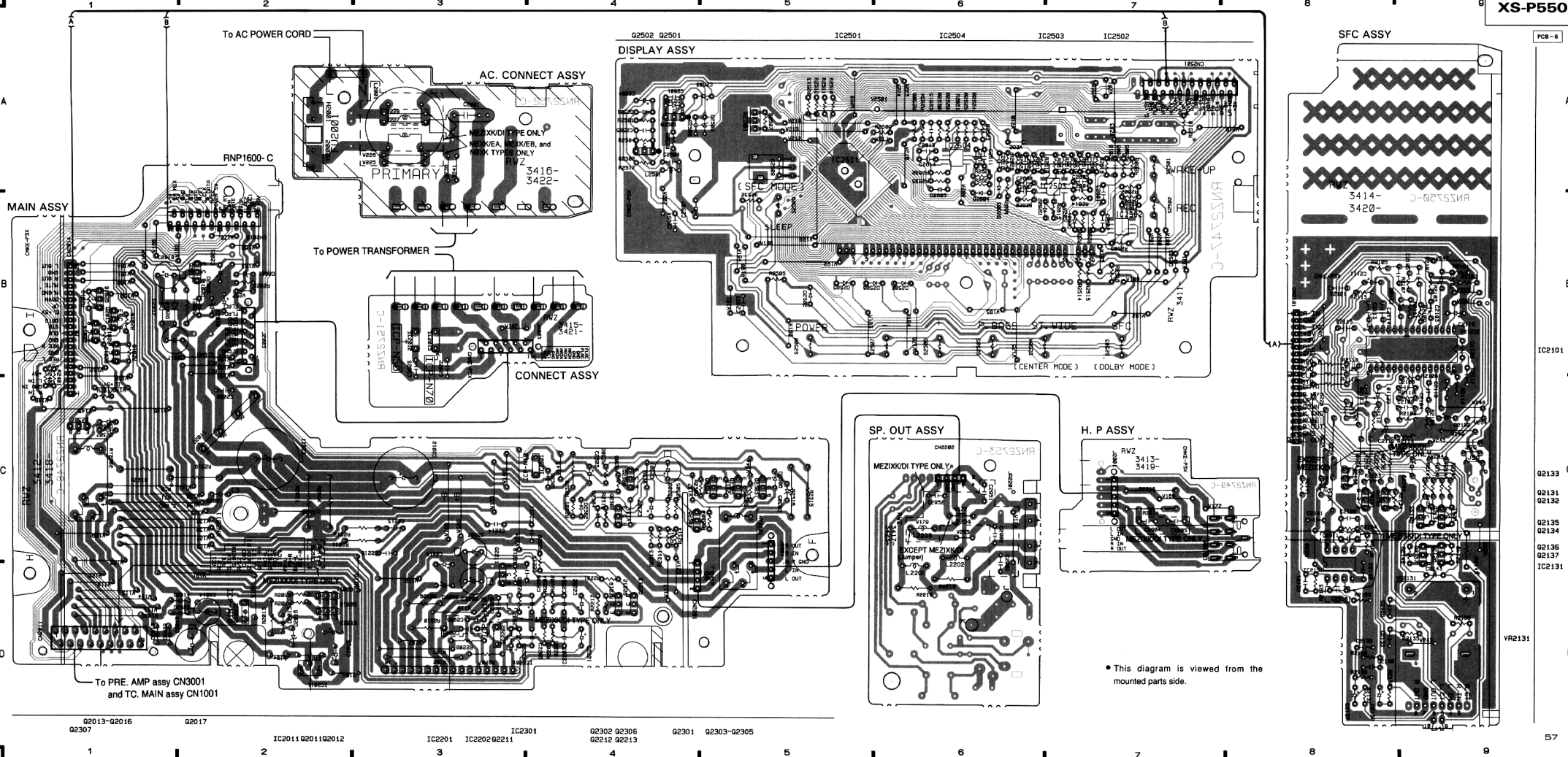
FM/AM DIGITAL SYNTHESIZER TUNER (F-P50RDS)
(PRE-AMP ASSY, DISPLAY ASSY)



■ DISPLAY ASSY, MAIN ASSY, H. P ASSY, SFC ASSY, CONNECT ASSY, AC. CONNECT ASSY AND SP. OUT ASSY



52



A

B

C

D

IC2101

Q2133

Q2131

Q2132

Q2135

Q2134

Q2136

Q2137

IC2131

5. PCB PARTS LIST

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

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

560 Ω $\rightarrow$ 56 $\times$ 10¹ $\rightarrow$ 561 RD1/8PM $\begin{matrix} \boxed{5} & \boxed{6} & \boxed{1} \end{matrix}$ J

47k Ω $\rightarrow$ 47 $\times$ 10³ $\rightarrow$ 473 RD1/4PS $\begin{matrix} \boxed{4} & \boxed{7} & \boxed{3} \end{matrix}$ J

0.5 Ω $\rightarrow$ 0R5 RN2H $\begin{matrix} \boxed{0} & \boxed{R} & \boxed{5} \end{matrix}$ K

1 Ω $\rightarrow$ 010 RS1P $\begin{matrix} \boxed{0} & \boxed{1} & \boxed{0} \end{matrix}$ K

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

5.62k Ω $\rightarrow$ 562 $\times$ 10¹ $\rightarrow$ 5621 RM1/4PC $\begin{matrix} \boxed{5} & \boxed{6} & \boxed{2} & \boxed{1} \end{matrix}$ F

LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No.				Remarks
		MEXK/EA	MEXK/EB	MEZIXK/DI	NBXK	
NSP	STEREO AMPLIFIER (A – P550)	RXF1031	RXF1038	RXF1033	RXF1027	
NSP	└ SFC. AMP assy	RWM1782	RWM1782	RWM1783	RWM1782	
	└ DISPLAY assy	RWZ3411	RWZ3411	RWZ3411	RWZ3411	
	└ MAIN assy	RWZ3412	RWZ3412	RWZ3418	RWZ3412	
NSP	└ H. P assy	RWZ3413	RWZ3413	RWZ3419	RWZ3413	
	└ SFC assy	RWZ3414	RWZ3414	RWZ3420	RWZ3414	
NSP	└ CONNECT assy	RWZ3415	RWZ3415	RWZ3421	RWZ3415	*1
	└ AC. CONNECT assy	RWZ3416	RWZ3416	RWZ3422	RWZ3416	
NSP	└ SP. OUT assy	RWZ3417	RWZ3417	RWZ3423	RWZ3417	
NSP	FM/AM DIGITAL SYNTHESIZER TUNER (F – P550RDS)	RXF1028	RXF1028	RXF1034	RXF1028	
	└ FM/AM TUNER MOD. (RDS)/HE	AXQ7013	AXQ7013	Not used	AXQ7013	
	└ FM/AM TUNER MOD. (RDS)/HEZ	Not used	Not used	AXQ7014	Not used	*2
NSP	└ PRE. TX assy	RWM1786	RWM1786	RWM1787	RWM1786	
	└ PRE. AMP assy	RWZ3426	RWZ3426	RWZ3428	RWZ3426	
	└ DISPLAY assy	RWZ3427	RWZ3427	RWZ3427	RWZ3427	
NSP	STEREO DOUBLE CASSETTE DECK (CT – P550WR)	RXF1030	RXF1030	RXF1030	RXF1030	
	└ MECHANISM UNIT	RYM1235	RYM1235	RYM1235	RYM1235	
NSP	COMPACT DISC PLAYER (PD – P550)	RXF1032	RXF1032	RXF1032	RXF1029	
NSP	└ SINGLE MECHA ASSY	RXA1672	RXA1672	RXA1672	RXA1672	
NSP	└ SERVO MECHANISM ASSY SL	AXA7017	AXA7017	AXA7017	AXA7017	
NSP	└ MECHANISM BOARD assy	PWX1192	PWX1192	PWX1192	PWX1192	
NSP	DECK. CD assy	RWM1789	RWM1789	RWM1789	RWM1789	
	└ TC. MAIN assy (For CT – P550WR)	RWZ3440	RWZ3440	RWZ3440	RWZ3440	
NSP	└ TC. FUNC assy (For CT – P550WR)	RWZ3441	RWZ3441	RWZ3441	RWZ3441	
	└ CD. MAIN assy (For PD – P550)	RWZ3442	RWZ3442	RWZ3442	RWZ3442	
NSP	└ CD. FUNC assy (For PD – P550)	RWZ3443	RWZ3443	RWZ3443	RWZ3443	

Notes)

*1: Although RWZ3415 and RWZ3421 are different in part number, they consist of the same component.

*2: For AXQ7014, refer to page 68.

■ CONTRAST OF PCB ASSEMBLIES

MAIN Assy

RWZ3412 and RWZ3418 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3412	RWZ3418	
	C2907, C2958 C2908, C2909, C2955	Not used Not used	CCCSL101J50 CKCYF103Z50	

H. P Assy

RWZ3413 and RWZ3419 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3413	RWZ3419	
	C2904, C2905	Not used	CCCSL101J50	

SFC Assy

RWZ3414 and RWZ3420 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3414	RWZ3420	
	L2951	Not used	LAUR22J	
	C2191, C2192 C2910, C2911	Not used Not used	CKCYB561K50 CCCSL101J50	

AC. CONNECT Assy

RWZ3416 and RWZ3422 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3416	RWZ3422	
	L2001	Not used	ATF – 151	

SP. OUT Assy

RWZ3417 and RWZ3423 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3417	RWZ3423	
	L2201, L2202 L2203, L2204	ATH – 133 Not used	ATH – 059 ATH – 059	
	C2901, C2902, C2951, C2952	Not used	CQMA102J50	
	R2215, R2216	RD1/4PMFL100J	RD1/4PMFL101J	

PRE. AMP Assy

RWZ3426 and RWZ3428 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3426	RWZ3428	
	C3101, C3102 C3103, C3104, C3953, C3954 C3958, C3959 C3115, C3116 C3803 C3903, C3905 C3904, C3906	CKCYB391K50 Not used Not used CCCCH101J50 Not used Not used Not used	CKCYB102K50 CKCYB102K50 CKCYB102K50 CKCYB102K50 CFTXA184J50 CKCYB391K50 CKPUYB391K50	

■ PARTS LIST FOR MEXK/EA TYPE

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
■ STEREO AMPLIFIER (A – P550)				MAIN ASSY			
DISPLAY ASSY				SEMICONDUCTORS			
SEMICONDUCTORS				△	IC2016, IC2202, IC2301	ICP – N10	
	IC2502 – IC2504	NJM4558M		△	IC2011	NJM78M05FA	
	IC2501	PDC023B		△	IC2201	STK401 – 060	
	Q2502	2SC2458			Q2302	2SA1048	
	Q2501	DTC124ES			Q2013	2SA1515	
	D2501, D2503, D2505 – D2507	1SS254			Q2213	2SA992	
	D2601 – D2605	1SS254		△	Q2011, Q2012	2SB1237X	
	D2502	BR3371XJ30A			Q2017	2SB560	
	D2508, D2509	MTZJ6.2B/C			Q2211, Q2212	2SC1845	
COILS AND FILTERS					Q2301, Q2303 – Q2307	2SC2458	
	L2501	LAU101J			Q2014	2SC3377	
SWITCHES AND RELAYS					Q2016	DTA124ES	
	S2501 – S2509	RSG1033			Q2015	DTC124ES	
CAPACITORS				△	D2015, D2019, D2302, D2304	1SS254	
	C2503, C2504	CEAS010M50			D2011	D3SBA20 (B)	
	C2507	CEAS470M10			D2305 – D2308	MTZJ11B	
	C2505	CFTXA224J50			D2020	MTZJ30B	
	C2509	CKPUYB101K50		△	D2016	MTZJ6.2B/C	
	C2506	CKPUYB102K50			D2021	MTZJ7.5B/C	
	C2613, C2614	CKPUYB471K50		△	D2013, D2014, D2017, D2018	S5688G	
	C2603, C2606	CKPUYF103Z25		△	D2022, D2023, D2301	S5688G	
	C2953, C2954	CKPUYF103Z25		SWITCHES AND RELAYS			
	C2604, C2605	CKPUYF223Z25			RY2301, RY2302	ASR1035	
	C2501, C2508, C2601, C2602, C2609	CKPUYF473Z50		CAPACITORS			
	C2612, C2615	CKPUYF473Z50		△	C2020 (0.01μF/150V)	ACG1005	
	C2610, C2611	CKPUYX152M16			C2017	CEANP330M35	
	C2607, C2608	CKPUYX472M16			C2209, C2210, C2302	CEAS100M50	
RESISTORS					C2205 – C2208	CEAS101M50	
	All Resistors	RD1/6PM□□□J			C2013	CEAS102M16	
OTHERS					C2015, C2016	CEAS220M16	
	CN2501 22P CONNECTOR	52044 – 2245			C2019	CEAS220M50	
	REMOTE RECEIVER UNIT	GP1U27X			C2301	CEAS221M16	
	V2501 FL INDICATOR TUBE	RAW1142			C2303	CEAS2R2M50	
	X2501 (6.00MHZ)	VSS1045			C2018	CEAS330M50	

Mark	No.	Description	Parts No.
	C2021		CEAS470M50
	C2014		CEAS471M16
	C2201, C2202		CEASR15M50
	C2215		CGCYX104M16
	C2203, C2204		CKCYB471K50
	C2025		CKCYF103Z50
	C2211-C2214		CKCYF473Z50
	C2011, C2012	(3300μF/50V)	RCH1129
RESISTORS			
	R2021		RD1/2PM272J
	R2013		RD1/4PM221J
	R2320		RD1/4PM243J
	R2211, R2212		RD1/4PM4R7J
△	R2209, R2210		RD1/4PMFL101J
	R2315, R2316, R2318, R2319		RS2LMF271J
	R2011, R2012		RS2LMFR22J
	Other Resistors		RD1/6PM□□□J
OTHERS			
	CN2012	CABLE HOLDER (5P)	51052-0500
		22P CONNECTOR	52045-2245
		CABLE HOLDER	AKT1007
	CN2014	20P PLUG	KM2001A20
	CN2201	SOCKET 4-P	KP250NA4
	CN2011	SOCKET (18P)	RKP1717
	KN2011	EARTH METAL FITTING	VNF1084
H. P ASSY			
RESISTORS			
	R2213, R2214		RS2LMF331J
OTHERS			
	CN2204	CABLE HOLDER (5P)	51052-0500
		JACK	AKN1004
SFC ASSY			
SEMICONDUCTORS			
	IC2131		NJM4558D-D
	IC2101		PM0006A
	Q2134, Q2135		2SA1015
	Q2136, Q2137		2SC1815
	Q2131, Q2132		2SC2458
	Q2133		DTA124ES
CAPACITORS			
	C2139, C2140		CCCSL220J50
	C2101, C2102, C2109-C2112		CEAS100M50
	C2118, C2119		CEAS100M50
	C2144		CEAS220M10
	C2137, C2138		CEAS2R2M50
	C2113-C2115, C2143		CGCYX104M16
	C2141, C2142		CKCYF473Z50
	C2120, C2121		CKPUYB471K50
	C2106, C2108		CQMA102J50
	C2103, C2104		CQMA103J50
	C2135, C2136		CQMA393J50
	C2117		CQMA562J50
	C2105, C2107		CQMA683J50
RESISTORS			
	VR2131	(100K-B×2)	RCX1054
	R2143		RD1/6PM151J
	Other Resistors		RD1/6PM□□□J

Mark	No.	Description	Parts No.
CONNECT ASSY			
SEMICONDUCTORS			
△	IC2012		ICP-N50
△	IC2013		ICP-N70
CAPACITORS			
	C2202, C2203		CKCYF103Z50
OTHERS			
	CABLE HOLDER		AKT1007
AC. CONNECT ASSY			
AC. CONNECT ASSY has no service part.			
SP. OUT ASSY			
COILS AND FILTERS			
	L2201, L2202	(1UH)	ATH-133
RESISTORS			
△	All Resistors		RD1 4PM□□□J
OTHERS			
	JA2201	SPEAKER TERMINAL 4-P	RKE1004
■ FM/AM DIGITAL SYNTHESIZER TUNER			
(F-P550RDS)			
FM/AM TUNER MOD. (RDS)/HE			
SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101, D6102		1T33
COILS AND FILTERS			
	L6104		ATC1003
	L6101		ATC1020
	L6102		ATC1021
	T6101		ATE-063
	L6207		ATE1013
	F6203, F6204		ATF-119
	F6101		ATF-155
	F6202	(450KHZ)	ATF1155
	L6103		ATH1043
	L6202, L6203, L6208		LCTA2R2J3225
CAPACITORS			
	C6234, C6236, C6270	(1μF/16V)	ACG1051
	C6107		CCSCH010C50
	C6229		CCSCH821J50
	C6110		CCSQCH020C50
	C6101		CCSQCH050C50
	C6108, C6203, C6269		CCSQCH101J50
	C6111, C6116, C6208, C6221, C6222		CCSQCH150J50
	C6115		CCSQCH330J50
	C6114		CCSQRH080D50
	C6113		CCSQRH180J50

Mark	No.	Description	Parts No.
	C6105 C6261 C6224, C6246, C6262 C6216, C6217 C6231, C6233		CCSQTH150J50 CEAS010M50 CEAS100M50 CEAS330M16 CEAS3R3M50
	C6219 C6243—C6245 C6227 C6238 C6249, C6250		CEAS470M10 CEAS470M16 CEAS470M25 CEJA100M16 CEJA4R7M35
	C6215 C6214 C6103, C6106, C6112, C6204 C6102, C6109, C6117, C6210, C6264 C6213		CFTXA103J50 CFTXA224J50 CKSQYB102K50 CKSQYB103K50 CKSQYB223K50
	C6230 C6228 C6209, C6237, C6265, C6267 C6252 C6212, C6218		CKSQYB273K50 CKSQYB472K50 CKSQYB473K50 CKSQYB822K50 CKSQYF103Z50
	C6220, C6226, C6239, C6242, C6255 C6235 C6225, C6241, C6266 C6232 C6251		CKSQYF223Z50 CKSQYF224Z25 CKSQYF473Z50 CKSYB273K50 CKSYB822K50
	C6223 C6263		CKSYF103Z50 CKSYF473Z50

RESISTORS

VR6201 (10k) VR6202 R6299, R6300 R6113, R6116, R6118, R6268—R6271 R6275, R6276, R6278, R6283, R6284	ACP1056 VRTB6VS223 RD1/8PM102J RS1/8S000J RS1/8S000J
R6290, R6293, R6294, R6297 R6243, R6244 R6211 R6237 R6209	RS1/8S000J RS1/8S101J RS1/8S103J RS1/8S182J RS1/8S221J
R6239 R6101 Other Resistors	RS1/8S332J RS1/8S470J RS1/10S□□□J

OTHERS

BN6201 X6203 X6201 X6202	TERMINAL 2—P WITH PAL CRYSTAL RESONATOR CRYSTAL RESONATOR CERAMIC RESONATOR AM RF TUNING BLOCK	AKA1017 ASS1042 ASS1066 ATF1027 AXX1041
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PRE. AMP ASSY

SEMICONDUCTORS

△ △ △ △ △ △	IC3102 IC3103 IC3003 IC3002 IC3201 IC3101, IC3104 IC3001 IC3007 Q3202 Q3106	BU4052BC BU4066BC ICP—N10 ICP—N15 LA2232 NJM4558D—D NJM7812FA NJM78L05A 2SA1048 2SA1515
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Mark	No.	Description	Parts No.
△ △ △ △	Q3004 Q3005 Q3201 Q3001, Q3002 Q3108 Q3104 Q3105, Q3107, Q3203 D3004, D3005, D3011 D3012 D3013 D3007 D3006 D3001—D3003, D3008—D3010 D3014—D3016		2SB1237X 2SB560 2SC2668 2SD1858X DTA114ES DTA124ES DTC124ES 1SS254 MTZJ30B MTZJ5.1B/C MTZJ6.2B/C MTZJ6.8B S5688G S5688G

CAPACITORS

C3016, C3115, C3116, C3952 C3960, C3961 C3204 C3956 C3013, C3208, C3210 C3007, C3008 C3003 C3011, C3202 C3001 C3105, C3106, C3113, C3114 C3009, C3010 C3002, C3006, C3015, C3111, C3112 C3005, C3014 C3004 C3201, C3209, C3211 C3804, C3805 C3950 C3205 C3107, C3108 C3203, C3206 C3101, C3102 C3109, C3110 C3215 C3951, C3955 C3212 C3207 C3213, C3214	CCCCH101J50 CCCCH101J50 CCCCH271J50 CCPUSL470J50 CEAS100M50 CEAS101M35 CEAS102M16 CEAS220M50 CEAS222M35 CEAS2R2M50 CEAS330M50 CEAS470M16 CEAS471M10 CEAS471M16 CEAS4R7M50 CGCYX473M25 CKCYB102K50 CKCYB103K50 CKCYB152K50 CKCYB332K50 CKCYB391K50 CKCYB562K50 CKCYB682K50 CKCYF103Z50 CKCYF223Z50 CKCYX103M16 CKCYX333M16
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RESISTORS

VR3201 (4.7K) R3013 R3001, R3004 R3007, R3008 R3132 R3012 Other Resistors	RCP1020 RD1/2VM272J RD1/2VM821J RD1/2VM8R2J RD1/4VM222J RD1/4VM472J RD1/6PM□□□J
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OTHERS

CN3103 CN3104 X3201 (456KHZ) CN3002 CN3001 KN3001	CONNECTOR (14P) PIN JACK (4P) (PHONO/AUX) HEAT SINK CONNECTOR (15P) SOCKET (18P) EARTH METAL FITTING	9176B—14L AKB1124 ANH—575 ASS7001 KPE15 RKP1717 VNF1084
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Mark	No.	Description	Parts No.
DISPLAY ASSY			
SEMICONDUCTORS			
	IC3301		PD4563B
	Q3301		DTC124ES
	D3301-D3304, D3306, D3308		1SS254
	D3307		MTZJ5.1B/C
	D3305		MTZJ7.5B/C
COILS AND FILTERS			
	L3301		LAU2R2J
SWITCHES AND RELAYS			
	S3301-S3309		RSG1033
CAPACITORS			
	C3302		ACH1246
	C3305, C3307		CEAS010M50
	C3301		CEJA470M16
	C3309-C3311		CKPUYB101K50
	C3304		CKPUYF103Z25
	C3306		CKPUYF223Z25
	C3303, C3308		CKPUYF473Z50
RESISTORS			
	All Resistors		RD1/6PM□□□J
OTHERS			
	V3301 FL INDICATOR TUBE		RAW1141
	X3301 (4.19MHZ)		VSS1014

■ STEREO DOUBLE CASSETTE DECK
(CT-P550WR)

TC. MAIN ASSY
SEMICONDUCTORS

	IC1101		BU4066BCF
	IC1201		CXA1101P
△	IC1011, IC1012		ICP-N10
	IC1202, IC1401		NJM4558D-D
	IC1102, IC1301		NJM4558M
△	IC1004		NJM7812FA
	IC1701		PD6153A
	Q1008		2SA1048
△	Q1006, Q1007		2SB1237X
△	Q1503		2SB1238X
	Q1854		2SB1425
	Q1009, Q1101, Q1102, Q1252-Q1255		2SC2458
	Q1301, Q1302, Q1772		2SC2458
	Q1501, Q1502, Q1504		2SD1302
△	Q1003-Q1005, Q1807, Q1857		2SD1858X
	Q1303, Q1304, Q1351, Q1352		2SD2144S
	Q1481, Q1482		2SD2144S
	Q1151, Q1152		2SK373
	Q1305, Q1483, Q1761-Q1764		DTA124EK
	Q1751-Q1754		DTA124ES
	Q1181-Q1184, Q1505, Q1765, Q1855		DTC124EK
	Q1755		DTC124ES
	Q1771		DTC124TS
	D1151-D1156, D1181, D1182		1SS254
	D1251, D1252, D1401, D1402		1SS254
	D1761, D1762, D1802, D1803, D1807		1SS254
	D1852-D1854, D1856, D1857		1SS254
	D1012		MTZJ3.6B
	D1006, D1009		MTZJ6.8B
△	D1001-D1003, D1010, D1011		S5688G
△	D1013-D1015, D1801, D1851		S5688G

Mark	No.	Description	Parts No.
COILS AND FILTERS			
	L1951		LAU010J
	L1303, L1304 [3.3MH (252KHZ)]		RTF1019
	L1181, L1182		RTF1099
	L1301, L1302		RTF1102
	F1201, F1202		RTF1208
TRANSFORMERS			
	T1501		ATX-043
CAPACITORS			
	C1509, C1510		CCCSL101K500
	C1301, C1302		CCCSL221K500
	C1151, C1152		CCSQCH100D50
	C1953, C1954		CCSQCH101J50
	C1401, C1403		CCSQCH560J50
	C1253, C1254		CCSQSL151J50
	C1303, C1304		CCSQSL681J50
	C1103, C1104		CEANL100M16
	C1183, C1184, C1217, C1218		CEAS010M50
	C1283, C1284, C1317, C1318		CEAS010M50
	C1009, C1019		CEAS100M16
	C1219, C1252, C1402, C1507		CEAS100M50
	C1211		CEAS101M10
	C1005		CEAS102M16
	C1010		CEAS102M6R3
	C1771		CEAS220M50
	C1006, C1007		CEAS221M10
	C1014		CEAS221M16
	C1004		CEAS222M35
	C1305 C1306		CEAS2R2M50
	C1105, C1106, C1311, C1312		CEAS330M16
	C1319, C1320, C1505, C1506		CEAS330M16
	C1109, C1110, C1281, C1282, C1701		CEAS470M16
	C1011		CEAS471M16
	C1203, C1204, C1215, C1216		CEAS4R7M50
	C1251		CEASR33M50
	C1213, C1214		CEASR68M50
	C1209, C1210, C1503, C1504		CFTXA103J50
	C1501		CFTXA123J50
	C1502		CFTXA152J50
	C1113, C1114		CFTXA681J50
	C1107, C1108		CFTXA682J50
	C1307, C1308		CFTXA823J50
	C1601-C1604		CKCYB561K50
	C1001, C1002, C1020, C1021		CKCYF473Z50
	C1951, C1952, C1955-C1958		CKSQYB102K50
	C1703, C1772		CKSQYB103K50
	C1404		CKSQYB104K25
	C1309, C1310		CKSQYB182K50
	C1313-C1316		CKSQYB333K25
	C1181, C1182		CKSQYB391K50
	C1101, C1102		CKSQYB561K50
	C1111, C1153, C1154, C1802, C1852		CKSQYB681K50
	C1702		CKSQYF473Z50
	C1212		CQMA104J50
	C1511		CQPA162J100
RESISTORS			
	VR1181-VR1184, VR1301, VR1302 (22K)		RCP1046
	VR1501, VR1502 (220K)		RCP1049
	VR1851 (3.3K)		RCP1089
	R1203, R1204 (22K, W=1/6)		RCN1023
△	R1501		RD1 2LMF010J

Mark	No.	Description	Parts No.
	R1505		RD1/2VM121J
	R1504		RD1/2VM4R7J
	R1506		RD1/2VM680J
	R1014, R1015		RD1/2VM821J
	R1121		RD1/6PM103J
	R1119, R1120, R1212, R1321, R1322		RD1/6PM820J
	Other Resistors		RS1/10S□□□J

OTHERS

CN1701	13P JUMPER CONNECTOR	52147—1310
	CABLE HOLDER	AKT1023
CN1103	2P TOP POST	B2B—EH
CN1102	3P TOP POST	B3B—EH
CN1101	3P TOP POST	B3B—EH—R
CN1001	SOCKET (18P)	RKP1717
	PCB BINDER	VEF1008
KN1001	EARTH METAL FITTING	VNF1084
X1701	(4.19MHZ)	ASS1022

TC. FUNC ASSY

SEMICONDUCTORS

D1901, D1902, D1951	1SS254
D1903, D1905, D1906	SLR—342MCT31
D1907	SLR—342VRT31
D1904	SLR—342YCT31

SWITCHES AND RELAYS

S1901—S1907, S1951, S1952	RSG1033
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RESISTORS

All Resistors	RD1/6PM□□□J
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COMPACT DISC PLAYER (PD—P550)

MECHANISM BOARD ASSY

SWITCHES AND RELAYS

S610	DSG1016
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OTHERS

CN610	MT CONNECTOR 4P	173979—4
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CD. MAIN ASSY

SEMICONDUCTORS

IC151	CXA1372Q
IC301	CXD2508AQ
△ IC22	ICP—N10
△ IC201	LA6517
△ IC202	LA6520
IC401	NJM4558D—D
△ IC11	NJM78M05FA
IC351	PD4564A
Q433, Q434	2SD2144S
Q301	2SK246
Q352, Q431, Q432	DTA124EK
Q351	DTC124EK
D301, D302	1SS254
D201	MTZJ6.8B
△ D11—D14	S5688G

COILS AND FILTERS

L301	LAU1R2J
L951	LAU2R2J

Mark	No.	Description	Parts No.
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CAPACITORS

C310	CCSQCH100D50
C165	CCSQCH102J50
C403, C404, C409, C410	CCSQCH121J50
C312	CCSQCH220J50
C405—C408	CCSQCH271J50

C401, C402	CCSQCH391J50
C411, C412	CEALNP2R2M35
C20—C22	CEAS222M16
C351	CEAS330M16
C23	CEAS471M6R3

C156, C158, C354	CEAS4R7M50
C309	CEASR47M50
C11	CKCYF103Z50
C951	CKSQYB102K50
C153, C160, C161, C163, C201	CKSQYB103K50

C308	CKSQYB103K50
C154, C155, C157, C159	CKSQYB104K25
C211, C212	CKSQYB104K25
C306, C413, C414	CKSQYB152K50
C164	CKSQYB332K50

C152, C162	CKSQYB333K25
C166	CKSQYB472K50
C307	CKSQYB473K25
C151	CKSQYB561K50
C311	CKSQYF102Z50

C14, C241—C244, C353, C355	CKSQYF103Z50
C421, C422	CKSQYF104Z25
C313	CKSQYF473Z50
C304	CKSYF105Z16

RESISTORS

VR151, VR152 (22K)	RCP1046
Other Resistors	RS1/10S□□□J

OTHERS

CN151	CONNECTOR	12FMZ—ABT
CN201	MT CONNECTOR (4P)	173981—4
CN202	MT CONNECTOR (5P)	173981—5
CN351	8P JUMPER CONNECTOR	52147—0810
CN11	SOCKET (15P)	AKP1090

X301	(33.8688MHZ±700PPM)	ASS7000
CN301	TOP POST (6P)	B6P—SHF—1AA
	PCB BINDER	VEF1008
KN310	EARTH METAL FITTING	VNF1084
X351	(4.19MHZ)	VSS1014

CD. FUNC ASSY

SEMICONDUCTORS

D501—D503	1SS254
D504	AEL1055

SWITCHES AND RELAYS

S501—S507	RSG1033
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RESISTORS

All Resistors	RS1/10S□□□J
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● Parts List for MEZIXK/DI Type

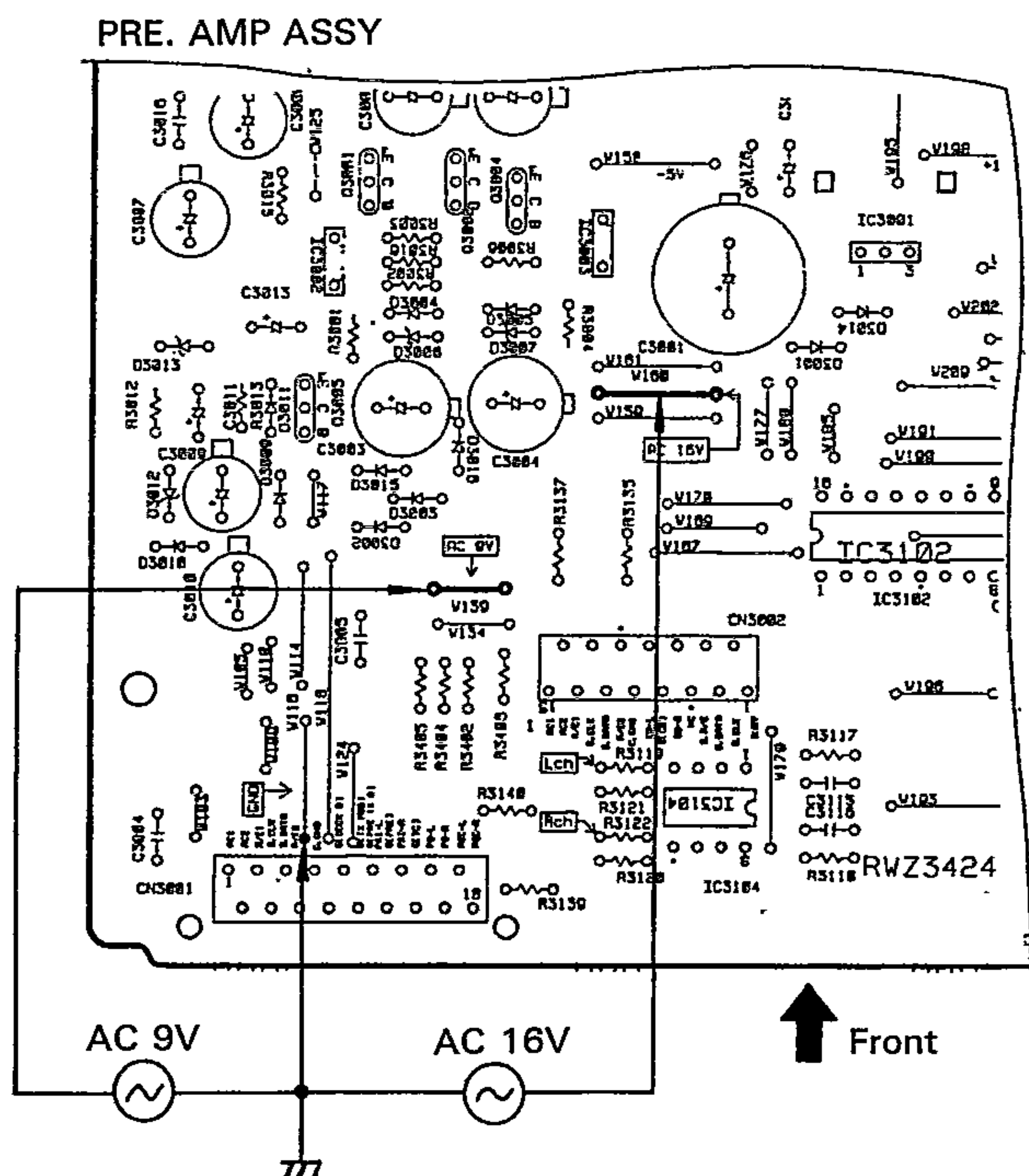
Mark	No.	Description	Parts No.
FM/AM TUNER MOD. (RDS)/HEZ (AXQ7014)			
SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202, Q6218		2SC2712
	Q6103, Q6214		2SC2714
	Q6201		2SK208
	Q6104, Q6105		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101 - D6104		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
CAPACITORS			
	C6204, C6234, C6236, C6269 (105/16)		ACG1051
	C6120		CCSCH060D50
	C6229		CCSCH102J50
	C6111, C6122		CCSQCH010C50
	C6112		CCSQCH020C50
	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
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243 - C6245		CEAS470M16
	C6227		CEAS470M25
	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

Mark	No.	Description	Parts No.
	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 (10K)		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			
	BN6201 2P ANTENNA TERMINAL WITH PAL		AKA1017
	X6203 (7.200MHZ)		ASS1042
	X6201 (456KHZ)		ASS1066
	X6202 (450KHZ)		ATF1027

6. SINGLE OPERATION METHOD

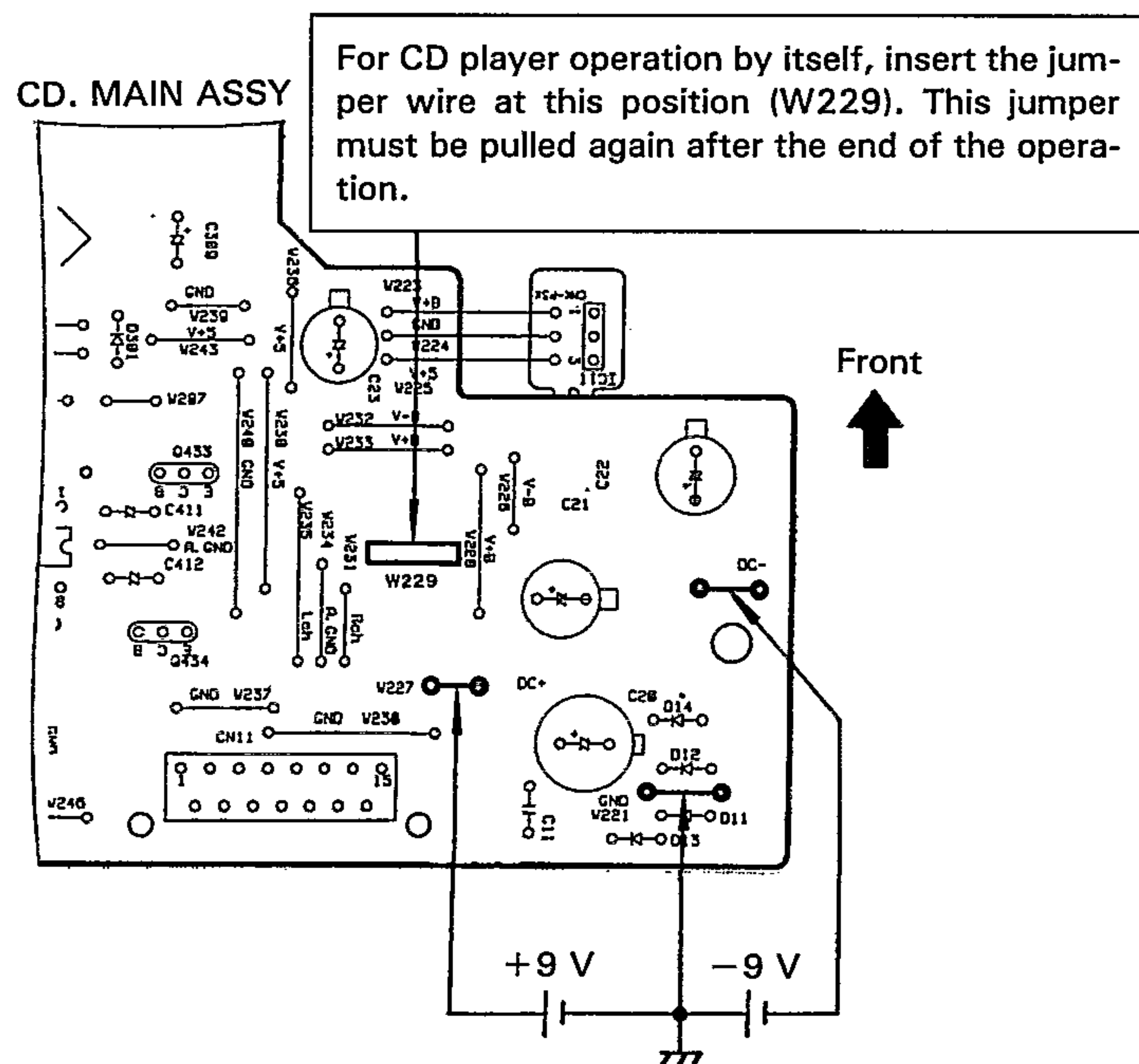
- As this product is a system product, operation with assembled components.
- When single operation can not be avoided, supply power etc. according to the following method.
The Stereo amplifier (A-P550) operates by itself.

1. FM/AM DIGITAL SYNTHESIZER TUNER (F-P550RDS)



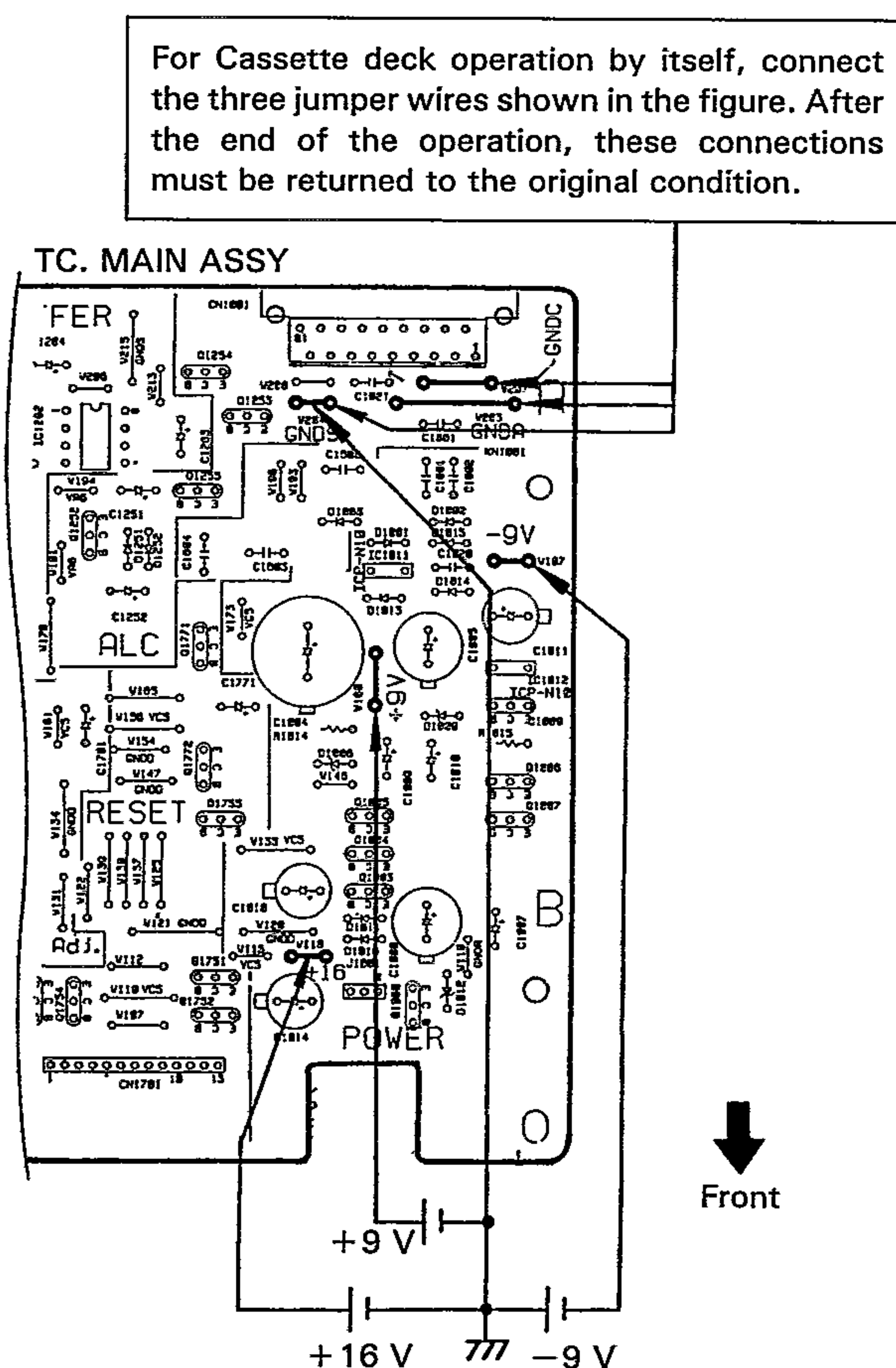
Provide the above potentials to the jumper wires of the figure.

2. COMPACT DISC PLAYER (PD-P550)



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

3. STEREO DOUBLE CASSETTE DECK (CT-P550WR)



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

7. ADJUSTMENTS

7.1 FM/AM DIGITAL SYNTHESIZER TUNER SECTION (F – P550RDS)

■ FM Tuner Section

- Set the FM/AM selector to FM BAND.
- Connect the wiring as shown in Fig. 1–1.

- For MEXK/EA, MEXK/EB and NBXK types (AXQ7013)

Step No.	Adjustment Title	FM SG (1kHz. ± 75 kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB μ V)			
1	Center Adjustment	98 Non Modulation	80 or more	98.0 MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or $\oplus$ leads of C6224 and C6261) becomes $0V \pm 50mV$.
2	Front-end Sensitivity Adjustment	98	Low input (0 to 30)	98 MHz	L6102 T6101	Adjust so that the DC voltage between IC6201-Pin 12 and GND (or $\oplus$ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98 MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (± 2 dB)	98.0 MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM $\rightarrow$ FM.
- Adjustment sequence: L6102 T6101

- For MEZIXK/DI type (AXQ7014)

Step No.	Adjustment Title	FM SG (1kHz, ± 75 kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB μ V)			
1	Center Adjustment	98	80	98 MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or $\oplus$ leads of C6224 and C6261) becomes $0V \pm 50mV$.
2	Front End 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-Pin 12 and GND (or $\oplus$ leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98 MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (± 2 dB)	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 $\rightarrow$ FM.
- Adjustment sequence : L6104 $\rightarrow$ L6105 $\rightarrow$ L6102 $\rightarrow$ T6101

AM Tuner Section

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

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

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

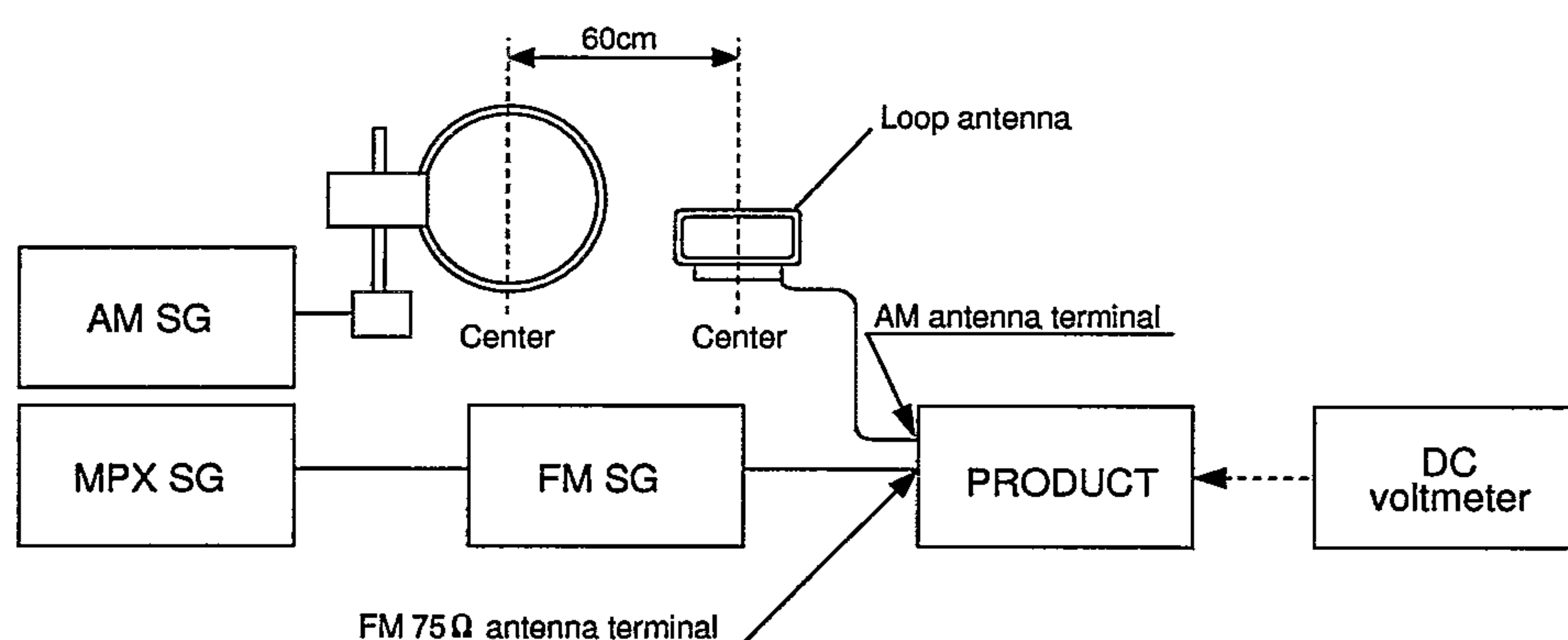
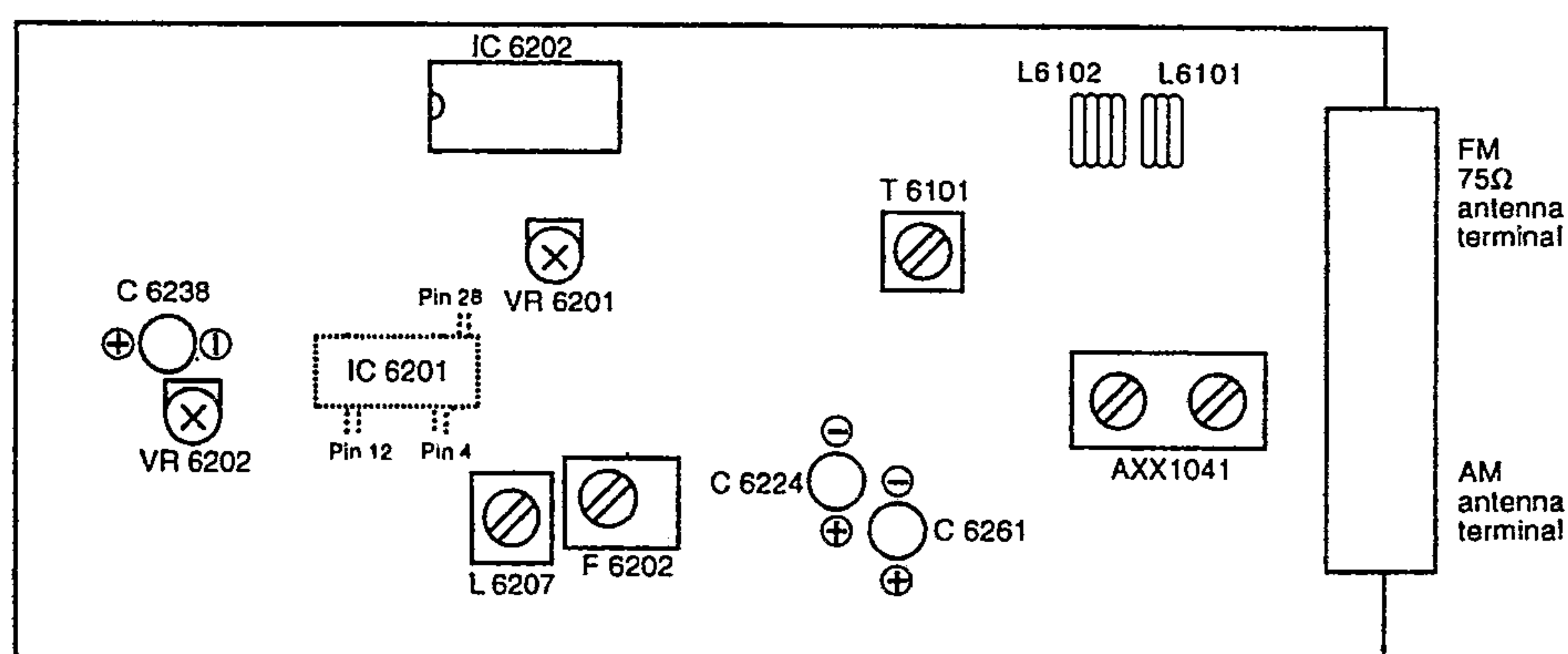


Fig. 1-1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MOD. (RDS)/HE (AXQ7013)



FM/AM TUNER MOD. (RDS)/HEZ (AXQ7014)

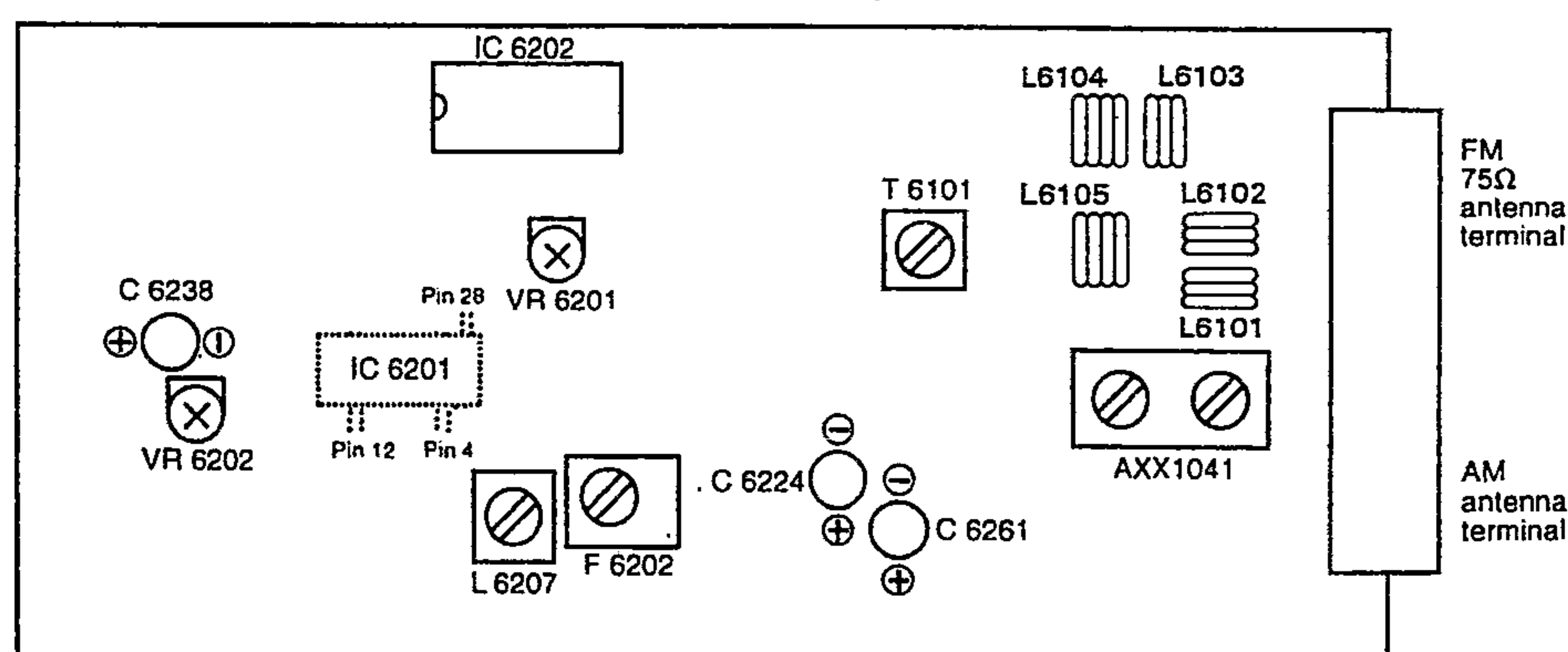


Fig. 1-2 Adjustment Points

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 1kHz, 85 %
Pilot 10 % RDS 1.6 %
SK 4.7 %

Step No.	Adjustment Title	FM/AM SG		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	RDS (BPF) Level	88	60	88MHz	VR3201	Adjust so that the Waveform of TP3201 (RDS) becomes at maximum. (Photo 1)
2	RDS IND. Lighting Level Verification	88	60	88MHz	—	Confirm that the RDS IND. to light up.

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 75Ω antenna terminal.

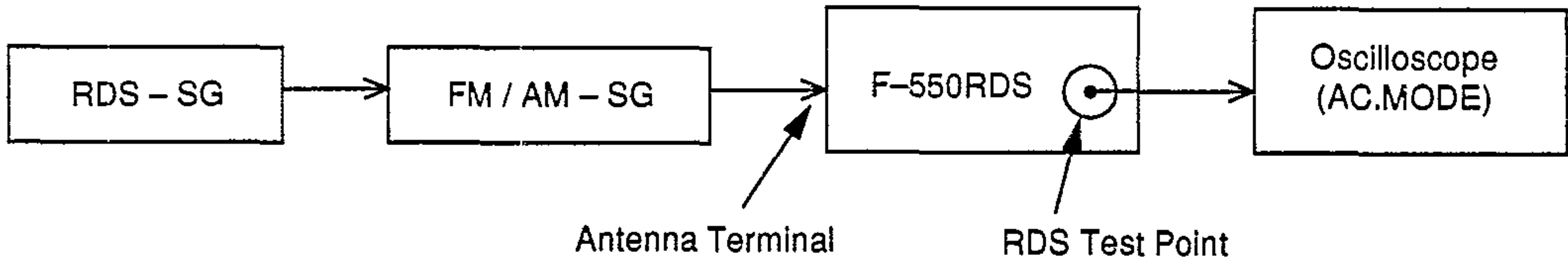


Fig. 1-3 RDS Adjustment Wiring Diagram

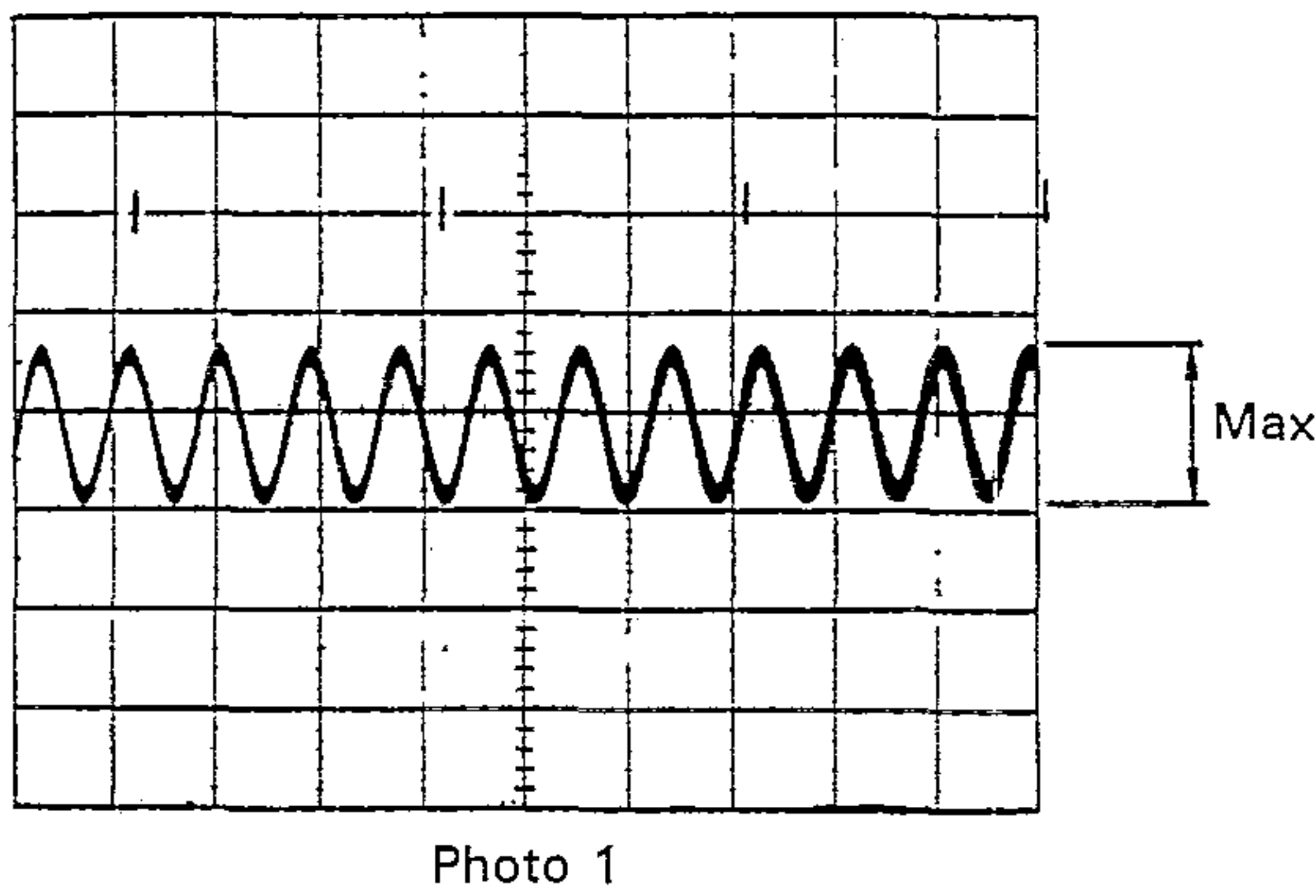


Photo 1

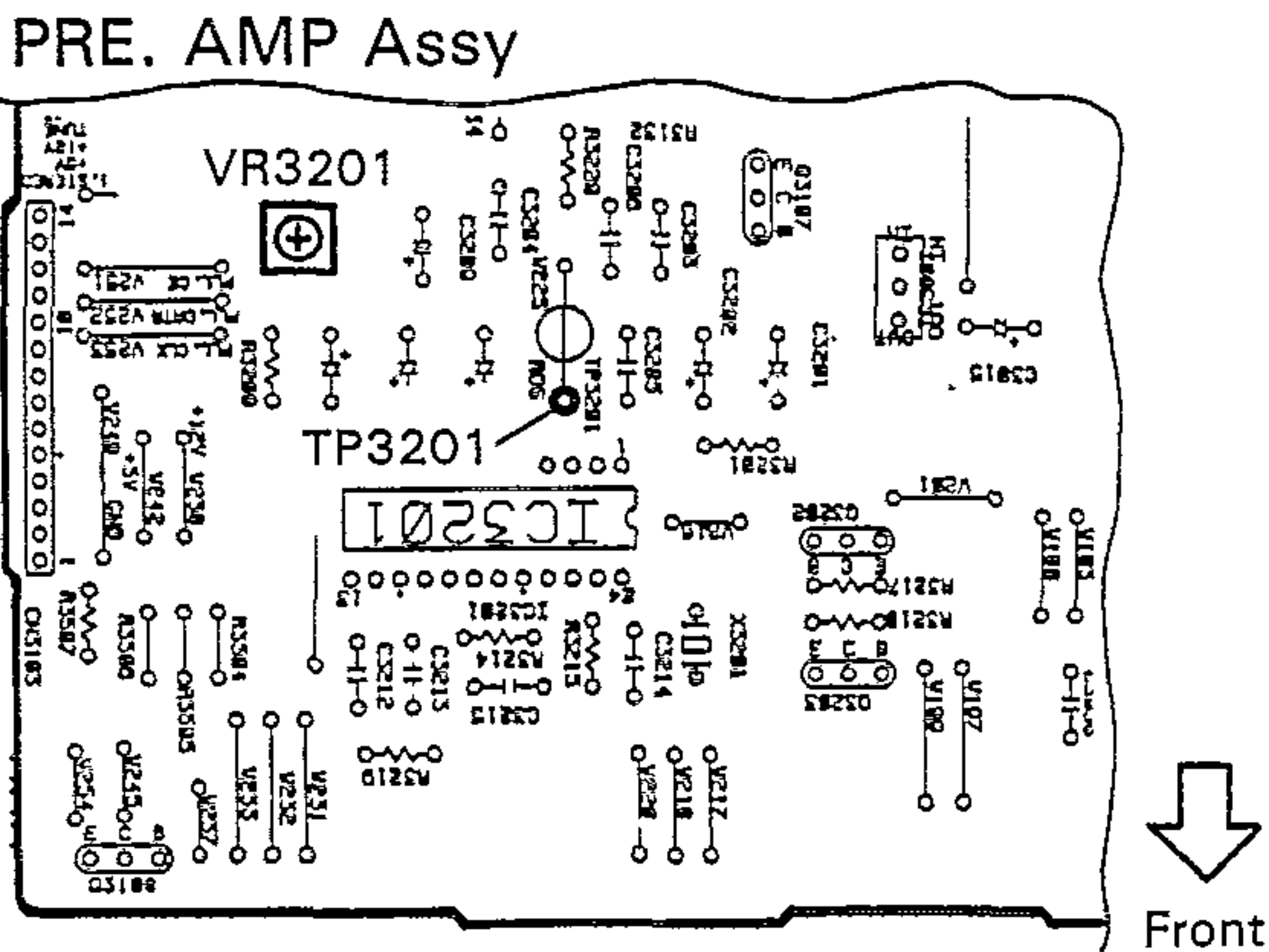


Fig. 1-4 Adjustment Points

7.2 STEREO DOUBLE CASSETTE DECK SECTION (CT-P550WR)

- 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 MUTE opens 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 ASSES/COPY key is pressed twice 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 ASSES/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 ASSES/COPY key or switch off the power supply.

2. Mechanical Adjustment

- Please execute this adjustment in test mode 1.
- Test tape: STD-301 (3kHz, 30min).
- The ground at the time of adjustment shall be W204 (refer to Fig. 2-4).

■ Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	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 W204 (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-P550 and F-P550 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-631: Normal blank tape
6. Provide yourself with the following measuring devices:
 - 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 otherwise 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.*

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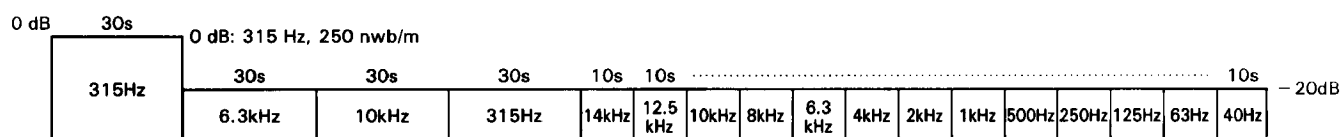
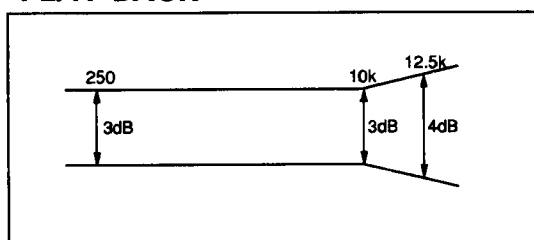


Fig. 2-1 STD-331E Test Tape

PLAY BACK



RECORDING

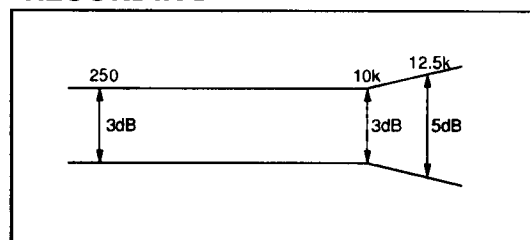


Fig. 2-2 Frequency Characteristics

Before Adjustment

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

- 1. Open the door panels (L) and (R).
- 2. Press the section ① (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.

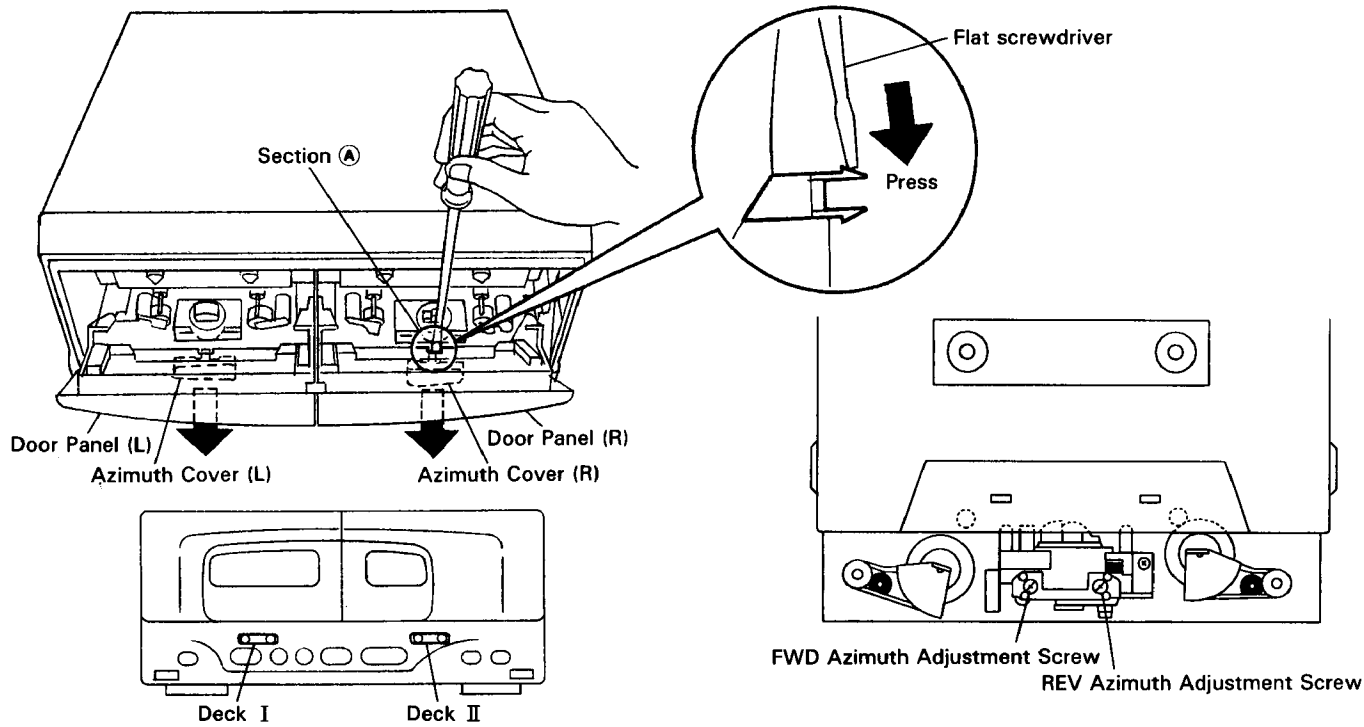


Fig. 2-3 Head Azimuth Adjustment

Playback Adjustment

1. Head Azimuth Adjustment

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 (Lch) TP2 (Rch) (TC. MAIN Assy)	-11.2 dBV	
				Deck II	VR1183 (Lch) VR1184 (Rch)			

Recording Adjustment

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

1. Recording Bias 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 VIDEO/AUX terminal and set the input selector to VIDEO.	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 Deck II	VR1501 (Lch) VR1502 (Rch)		Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.

Note: Set the 10 kHz input signal level to the same value as the 315 Hz 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 VIDEO/AUX terminal and set the input selector to VIDEO.	Input Signal Level	TP1 (Lch) TP2 (Rch) (TC. MAIN Assy)	-11.2 dBV	
2	NORMAL	REC → PLAY	STD-631 test tape and record/playback the 315Hz signal.	Deck I Deck II	VR1301 (Lch) VR1302 (Rch)		Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes -11.2dBV.

TC. MAIN Assy

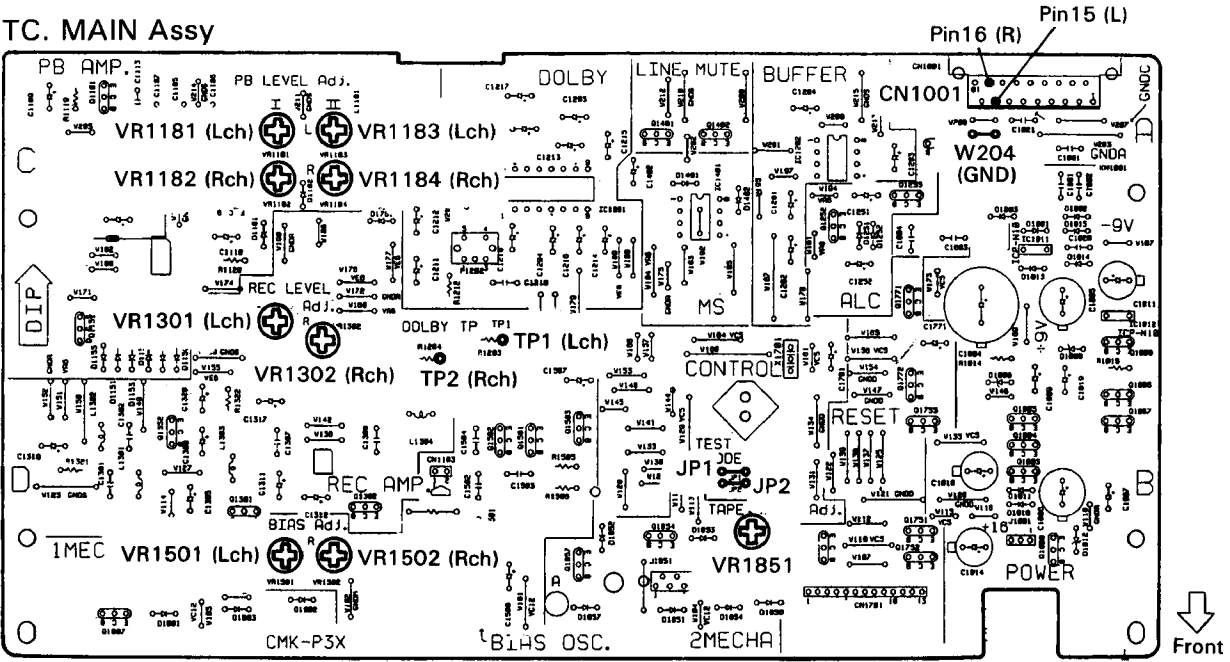


Fig. 2-4 Adjustment and Measurement Points

● 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 VIDEO/AUX terminal and set the input selector to VIDEO.	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 ± 0.5 dB from that of the 315Hz signal.	
				Deck II	VR1501 (Lch) VR1502 (Rch)			

Note: Set the 10 kHz input signal level to the same value as the 315 Hz 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 VIDEO/AUX terminal and set the input selector to VIDEO.	Input Signal Level		TP1 (Lch) TP2 (Rch) (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)			

TC. MAIN Assy

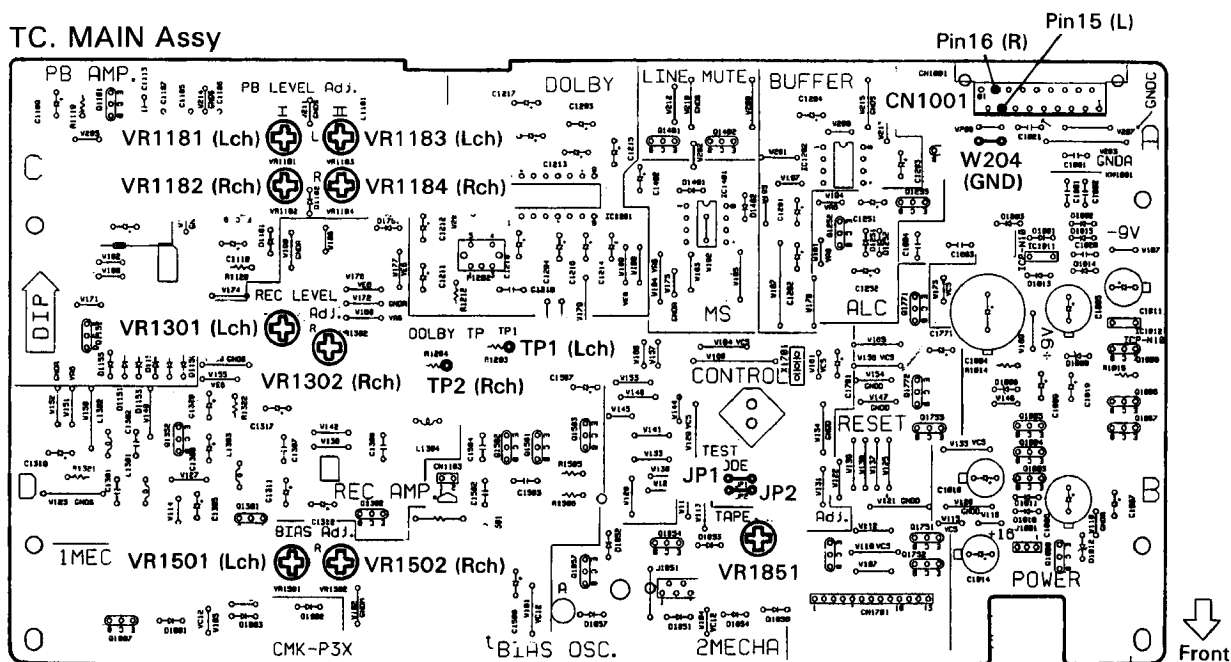


Fig. 2-4 Adjustment and Measurement Points

7.3 COMPACT DISC PLAYER SECTION (PD – P550)

■ Adjustment Methods

If a disc player is adjusted incorrectly or inadequately, it may malfunction or not work at all even though there is nothing at all wrong with the pickup or the circuitry. Adjust correctly following the adjustment procedure.

● Adjustment Items/Verification Items and Order

If the specified values cannot be obtained or no adjustment is possible by performing the verifications or adjustments described in steps 1–4, the pickup block may be defective.

Step	Item	Test Point	Adjustment Location
1	Focus offset verification	TP1, Pin6 (FCS. ERR)	None
2	Tracking error balance verification	TP1, Pin2 (TRK.ERR)	None
3	Pickup radial/tangential direction tilt adjustment	TP1, Pin1 (RF)	Radial tilt adjustment screw, Tangential tilt adjustment screw
4	RF level verification	TP1, Pin1 (RF)	None
5	Focus servo loop gain adjustment	TP1, Pin5 (FCS. IN) TP1, Pin6 (FCS. ERR)	VR152 (FCS. GAN)
6	Tracking servo loop gain adjustment	TP1, Pin3 (TRK. IN) TP1, Pin2 (TRK. ERR)	VR151 (TRK. GAN)

Abbreviation Table

FCS. ERR	: Focus Error
TRK. ERR	: Tracking Error
FCS. GAN	: Focus Gain
TRK. GAN	: Tracking Gain
FCS. IN	: Focus In
TRK. IN	: Tracking In

● Measuring Instruments and Tools

1. Dual trace oscilloscope (10 : 1 probe)
2. Low-frequency oscillator
3. Test disc (YEDS-7)
4. Low pass filter (39k Ω + 0.001 μ F)
5. Resistor (100k Ω)
6. 8 cm disc (With at least about 20 minutes of recording)
7. Ball point hexagon wrench (GGK1002)
8. Standard tools

● Test Point and Adjustment Variable Resistor Positions

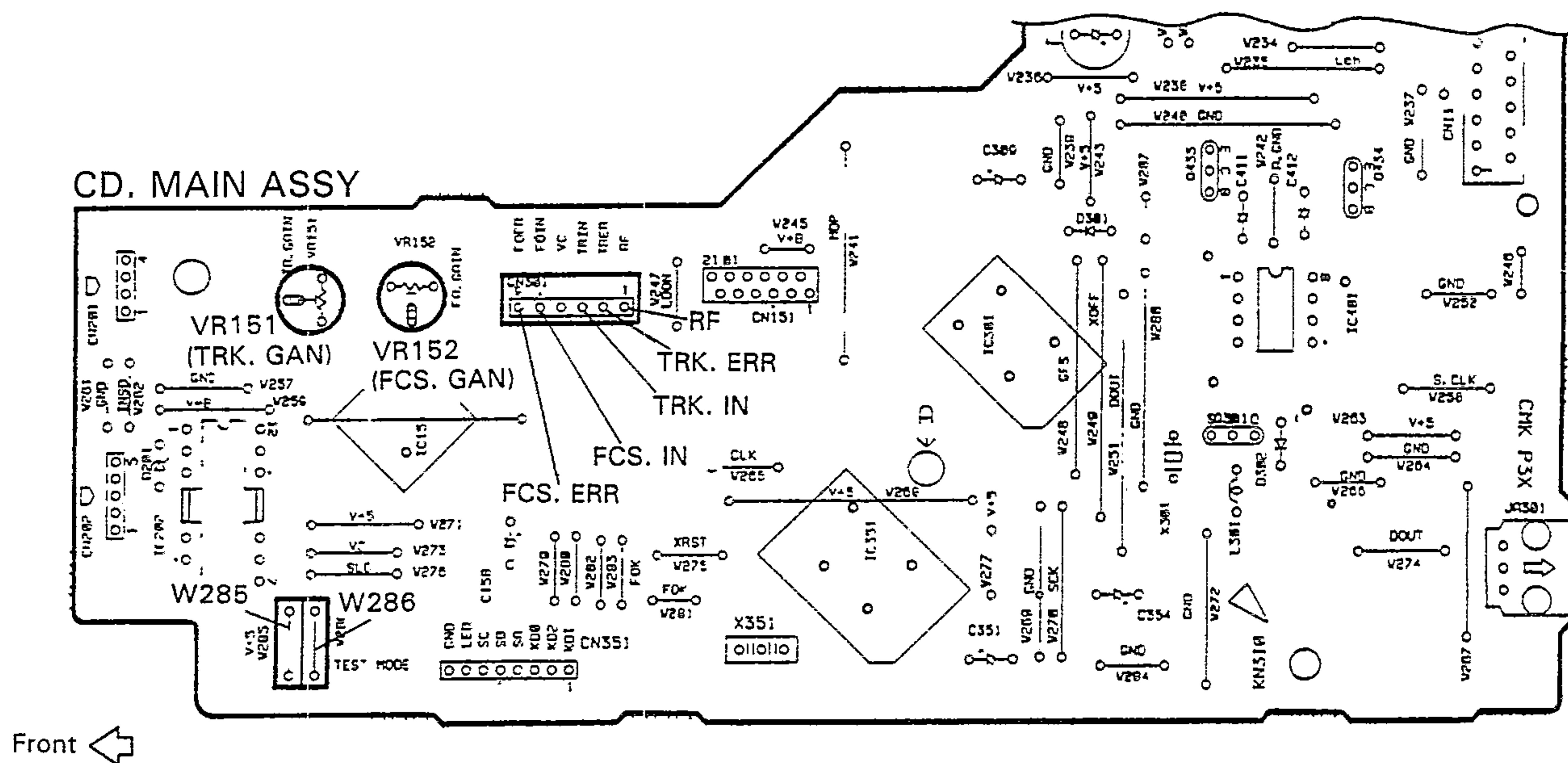


Fig. 3-1 Adjustment Location

● Notes

1. Use a 10 : 1 probe for the oscilloscope.
2. All the knob positions (settings) for the oscilloscope in the adjustment procedures are for when a 10 : 1 probe is used.
3. GND of the oscilloscope connect to TP1, pin4 (VC). If GND is shorted to the ground of the player, the player should be damaged.

● Test Mode

These models have a test mode so that the adjustment and checks required for service can be carried out easily. When these models are in test mode, the keys on the front panel work differently from normal. Adjustments and checks can be carried out by operating these keys with the correct procedure. For these models, all adjustments are carried out in test mode.

[Setting these models to test mode]

How to set this model into test mode.

1. Unplug the power cord from the AC socket.
2. Short-circuit jumper wires (W285 and W286) for the test mode (See Fig. 3-1).
3. Plug the power cord back into the AC socket.

When the test mode is set correctly, the display is different from what it usually is when the power is turned on. If the display is still the same as usual, test mode has not been set correctly, so repeat Steps 1-3.

[Release from test mode]

- Here is the procedure for releasing the test mode:
- 1. Press the STOP key and stop all operations.
 - 2. Turn off the power switch.

[Operations of the keys in test mode]

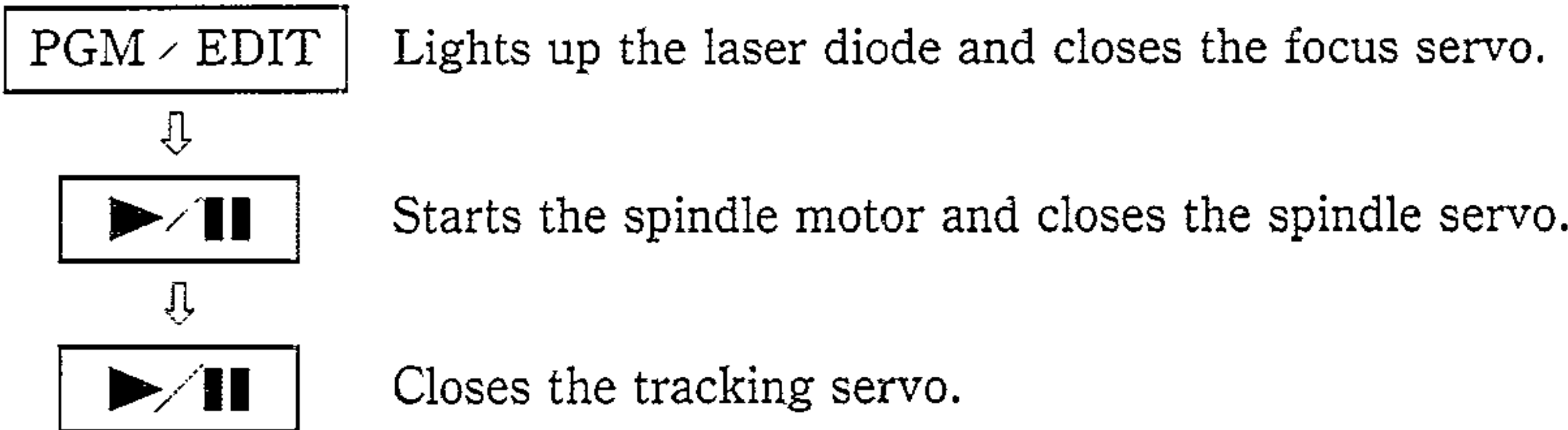
Code	Key Name	Function in Test Mode	Explanation
	PGM/EDIT	Focus servo close	The laser diode is lit up and the focus actuator is lifted up, then lowered slowly and the focus servo is closed at the point where the objective lens is focused on the disc. With the player in this state, if you lightly rotate the stopped disc by hand, you can hear the sound the focus servo. If you can hear this sound, the focus servo is operating correctly. If you press this key with no disc mounted, the laser diode lights up, the focus actuator is pulled up, then the actuator is lowered and raised three times and returned to its original position.
▶/■	PLAY/PAUSE	Spindle servo ON	Starts the spindle motor in the clockwise direction and when the disc rotation reaches the prescribed speed (about 500rpm at the inner periphery), sets the spindle servo in a closed loop. Be careful. Pressing this key when there is no disc mounted makes the spindle motor run at the maximum speed. If the focus servo does not go correctly into a closed loop or the laser light shines on the mirror section at the outermost periphery of the disc, the same symptom is occurred.
		Tracking servo close/open	Pressing this key when the focus servo and spindle servo are operating correctly in closed loops puts the tracking servo into a closed loop, displays the track number being played back and the elapsed time on the front panel, and outputs the playback signal. If the elapsed time is not displayed or not counted correctly or the audio is not played back correctly, it may be that the laser is shining on the section with no sound recorded at the outer edge of the disc, that something is out of adjustment, or that there is some other problem. This key is a toggle key and open/close the tracking servo alternately. This key has no effect if no disc is mounted.

Code	Key Name	Function in Test Mode	Explanation
	MANUAL / TRACK SEARCH REV	Carriage reverse (inwards)	Moves the pickup position toward the inner diameter of the disc. When this key is pressed with the tracking servo in a closed loop, the tracking servo automatically goes into an open loop. Since the motor does not automatically stop at the mechanical end point in test mode, be careful with this operation.
	MANUAL / TRACK SEARCH FWD	Carriage forward (outwards)	Moves the pickup position toward the outer diameter of the disc. When this key is pressed with the tracking servo in a closed loop, the tracking servo automatically goes into an open loop. Since the motor does not automatically stop at the mechanical end point in test mode, be careful with this operation.
	STOP	Stop	Initializes and the disc rotation stops. The pickup and disc remain where they are when this key is pressed.
	EJECT	Disc Load in / Load out	Load in / Load out the disc. This key is a toggle key and load in / load out alternately. Pressing this key when the disc is turning stops the disc, then load out the disc. This key operation does not affect the position of the pick-up.

[How to playback a disc in test mode]

In test mode, since the servos operate independently, playing back a disc requires that you operate the keys in the correct order to close the servos.

Here is the key operation sequence for playing back a disc in test mode.



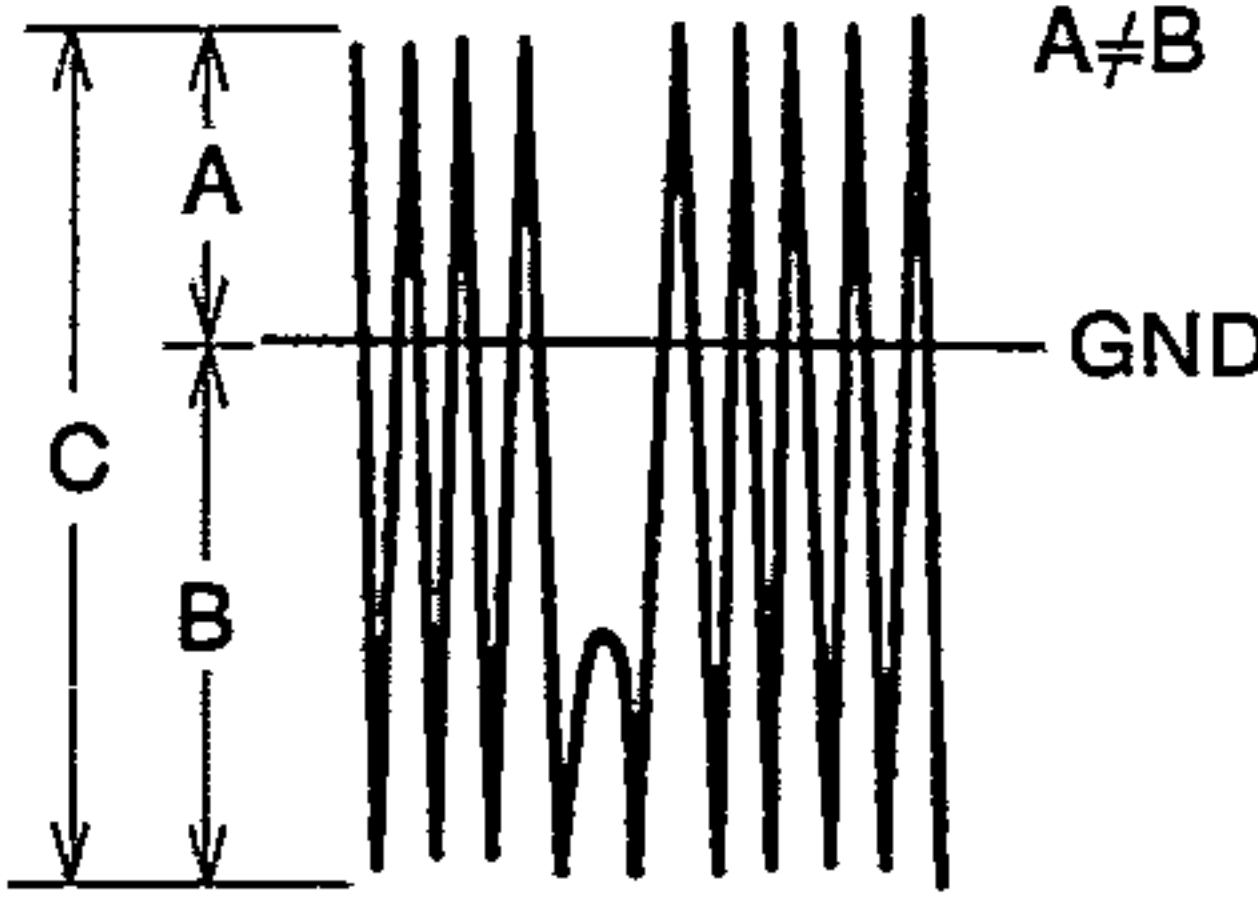
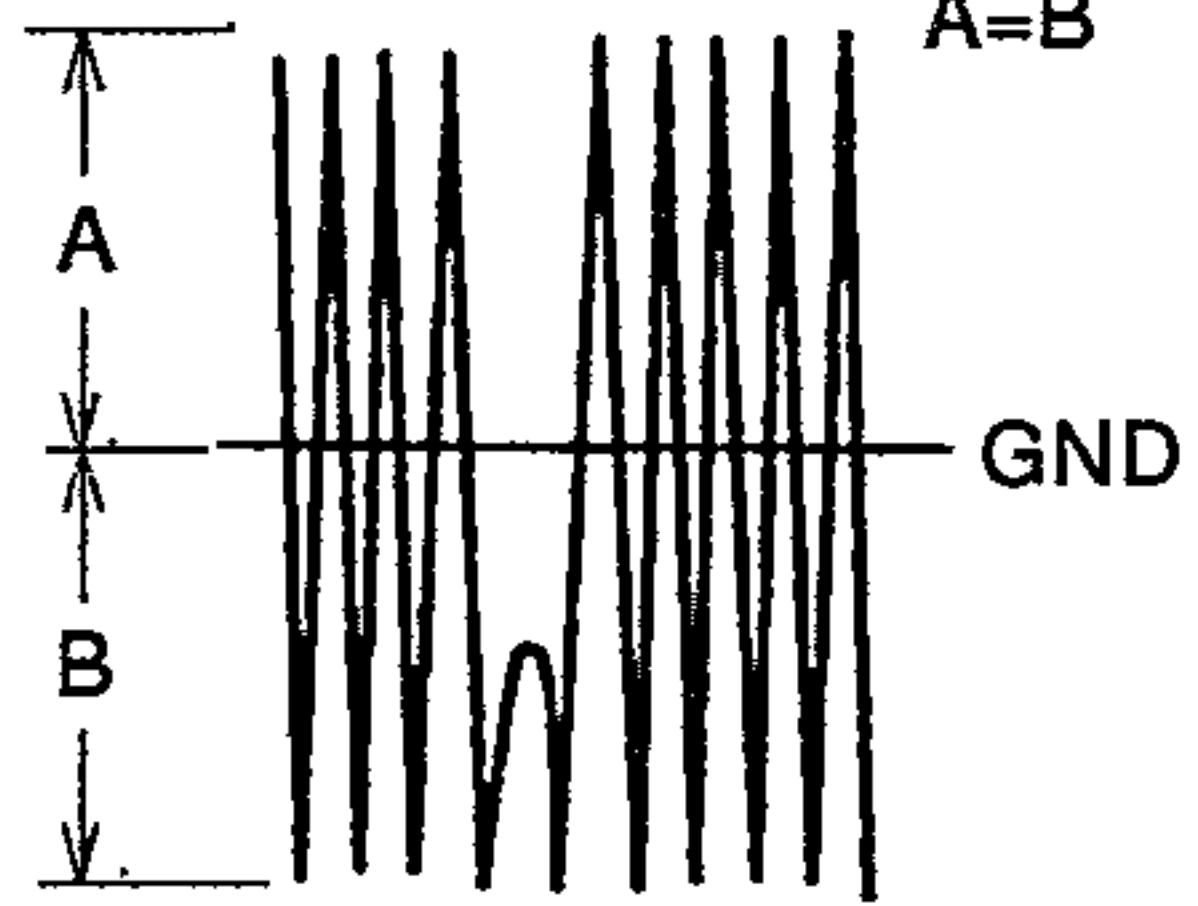
Wait at least 2–3 seconds between each of these operations.

1. Focus Offset Verification

● Objective	Verify the DC offset for the focus error amp.		
● Symptom when out of adjustment	The model does not focus in and the RF signal is dirty.		
● Measurement Instrument Connections	Connect the oscilloscope to TP1, Pin6 (FCS. ERR) and GND is to TP1, Pin4 (VC). [Settings] 5mV/division 10ms/division DC mode	● Player State ● Adjustment Location ● Disc	Test mode, stopped (just the Power switch on) None None needed
[Procedure] Verify the DC voltage at TP1, Pin6 (FCS. ERR) is $0 \pm 50\text{mV}$.			

Note: If the specified values cannot be obtained or no adjustment is possible by performing the verifications or adjustments described in adjustment items 1–4, the pickup block may be defective.

2. Tracking Error Balance Verification

● Objective	To verify that there is no variation in the sensitivity of the tracking photo diode.		
● Symptom when out of adjustment	Play does not start or track search is impossible.		
● Measurement Instrument Connections	Connect the oscilloscope to TP1, Pin2 (TRK. ERR) and GND is to TP1, Pin4 (VC). (This connection may be via a low pass filter.) [Settings] 50mV/division 5ms/division DC mode	● Player State ● Adjustment Location ● Disc	Test mode, focus and spindle servos closed and tracking servo open. None YEDS-7
[Procedure] 1. Move the pickup to midway across the disc (R=35mm) with the MANUAL/TRACK SEARCH FWD ►►•►►► key or REV ◄◄◄•◄◄◄ key. 2. Press the PGM/EDIT key, then the PLAY/PAUSE ►/◄ key in that order to close the focus servo then the spindle servo. 3. Line up the bright line (ground) at the center of the oscilloscope screen and put the oscilloscope into DC mode. 4. Supposing that the positive amplitude of the tracking error signal at TP1, pin2 (TRK. ERR) is (A) and the negative amplitude is (B), the following expression is satisfied.			
When $A \geq B$, $\frac{A-B}{C} \times \frac{1}{2} \leq 0.1$ When $A < B$, $\frac{B-A}{C} \times \frac{1}{2} \leq 0.1$		 When there is a DC component	 When there is a DC component

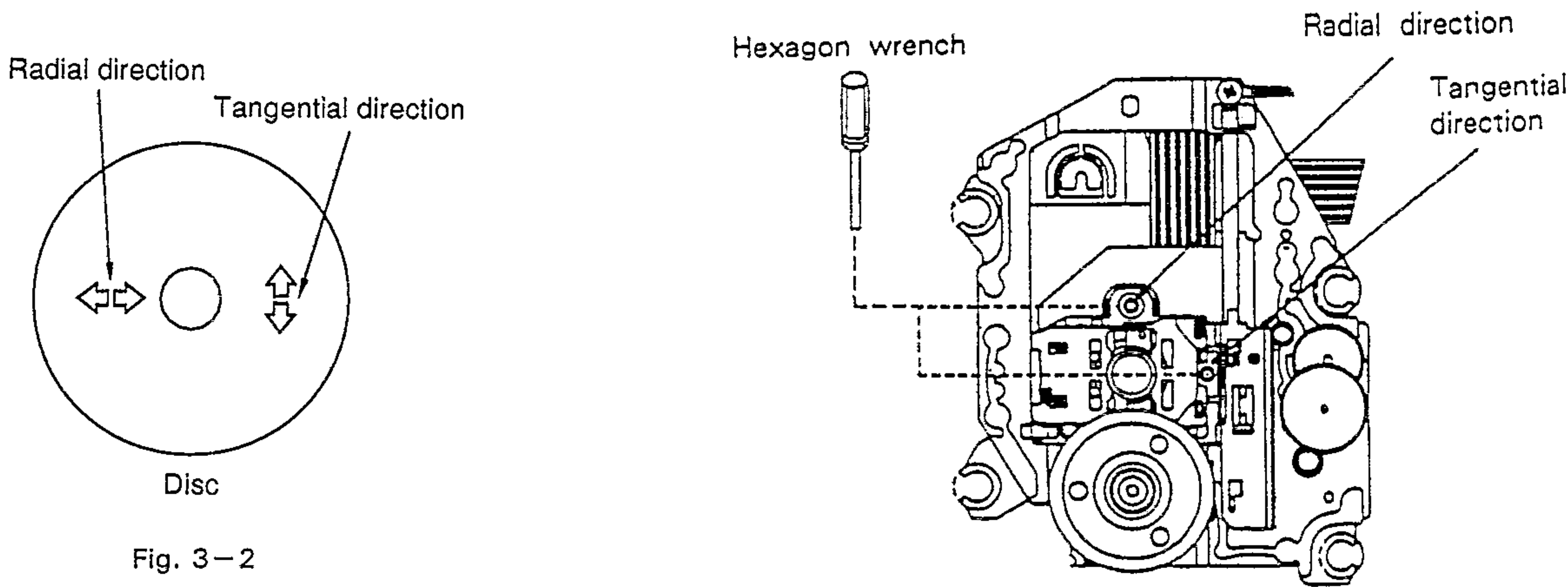
3. Pickup Radial/Tangential Tilt Adjustment

● Objective	To adjust the angle of the pickup relative to the disc so that the laser beams are shone straight down into the disc for the best read out of the RF signals.		
● Symptom when out of adjustment	Sound broken; some discs can be played but not others.		
● Measurement Instrument Connections	Connect the oscilloscope to TP1, Pin1 (RF) and GND is to TP1, Pin4 (VC). [Settings] 20mV/division 200ns/division AC mode	● Player State ● Adjustment Location ● Disc	Test mode, play Pickup radial tilt adjustment screw and tangential tilt adjustment screw 8 cm disc [However, those with approx. 20 min of audio signal (music).]

[Procedure]

1. Press the MANUAL/TRACK SEARCH FWD ►► • ►► key or REV ◄◄ • ◄◄ key to move the pickup to the external circumference of the disc.
Press the PGM/EDIT key, the PLAY/PAUSE ►/▮ key twice in that order to close the respective servos and put the player into play mode.
2. First, adjust the radial tilt adjustment screw with the hexagon wrench (GGK1002) so that the eye pattern (the diamond shape at the center of the RF signal) can be seen the most clearly.
3. Next, adjust the tangential tilt adjustment screw with the hexagon wrench (GGK1002) so that the eye pattern (the diamond shape at the center of the RF signal) can be seen the most clearly (Fig. 3-3).
※ The ball-point type hexagonal wrench is used because the disc will get in the way if a normal hexagonal wrench is used.
4. Adjust the radial tilt adjustment screw and the tangential tilt adjustment screw again so that the eye pattern can be seen the most clearly. As necessary, adjust the two screws alternately so that the eye pattern can be seen the most clearly.
5. When the adjustment is completed, lock the radial and tangential adjustment screw.

Note: Radial and tangential mean the directions relative to the disc shown in Fig. 3-2.



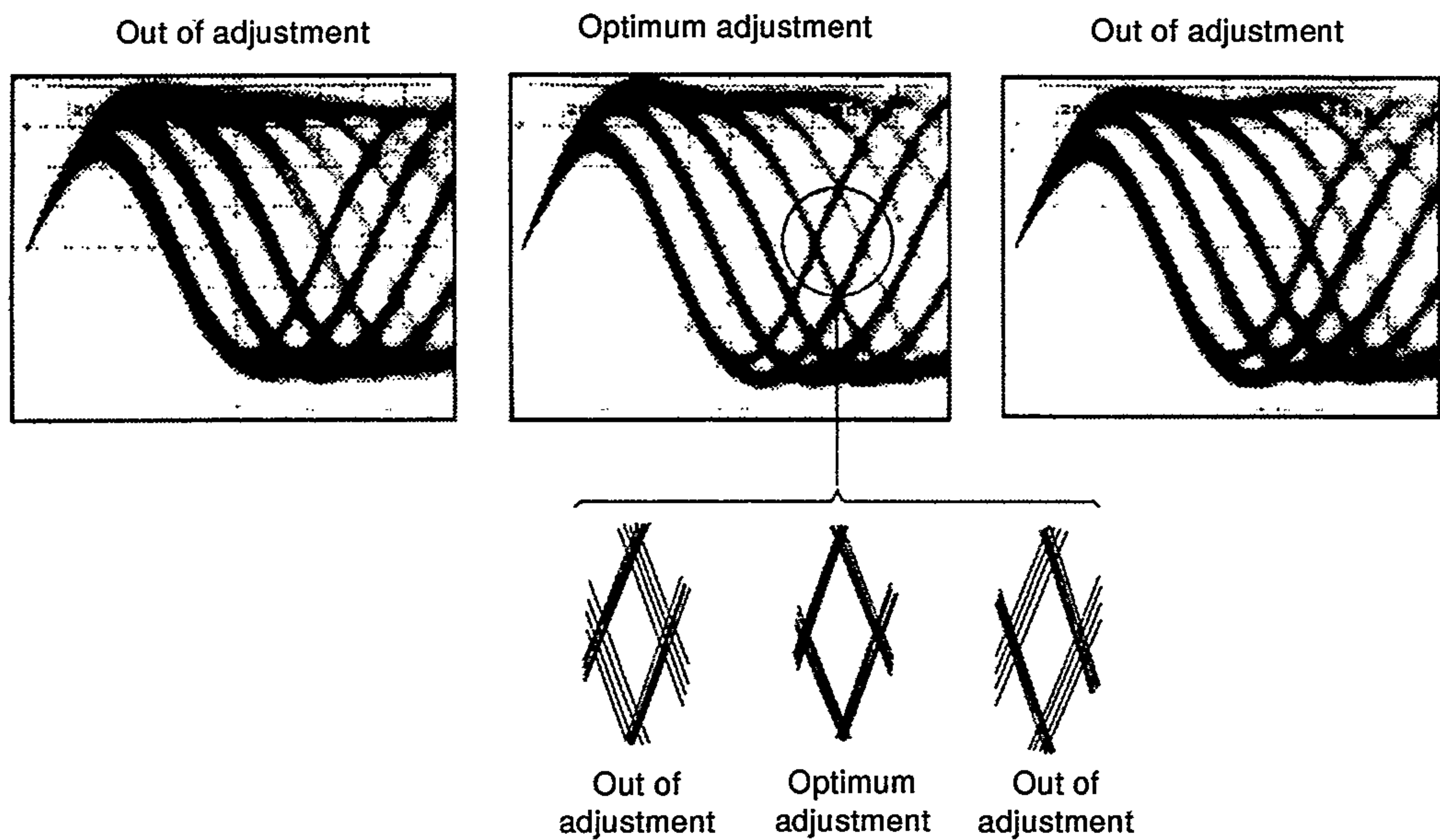


Fig. 3-3 Eye Pattern

4. RF Level Verification

● Objective	To verify the playback RF signal amplitude.		
● Symptom when out of adjustment	No play or no search		
● Measurement Instrument Connections	Connect the oscilloscope to TP1, Pin1 (RF) and GND is to TP1, Pin4 (VC). [Settings] 50mV/division 10ms/division AC mode	● Player State ● Adjustment Location ● Disc	Test mode, play None YEDS-7
[Procedure] 1. Move the pickup to midway across the disc (R=35mm) with the MANUAL/TRACK SEARCH FWD ►►►•►►► key or REV ◀◀◀•◀◀◀ key, then press the PGM/EDIT key, the PLAY/PAUSE ►◼◼ key twice in that order to close the respective servos and put the player into play mode. 2. Verify the RF signal amplitude is 1.2Vp-p±0.2V.			

5. Focus Servo Loop Gain Adjustment

● Objective	To optimize the focus servo loop gain.		
● Symptom when out of adjustment	Playback does not start or focus actuator noisy.		
● Measurement Instrument Connections	See Fig. 3-4. [Settings] CH1 20mV/division X-Y mode CH2 5mV/division	● Player State ● Adjustment Location ● Disc	Test mode, play VR152 (FCS. GAN) YEDS-7

[Procedure]

- 1. Set the AF generator output to 1.2kHz and 1Vp-p.
- 2. Press the MANUAL/ TRACK SEARCH FWD ►►►•►►► key or REV ◀◀◀•◀◀◀ key to move the pickup to halfway across the disc (R=35mm), then press the PGM/EDIT key, the PLAY/PAUSE ►/◼ key twice in that order to close the corresponding servos and put the player into play mode.
- 3. Adjust VR152 (FCS. GAN) so that the Lissajous waveform is symmetrical about the X axis and the Y axis.

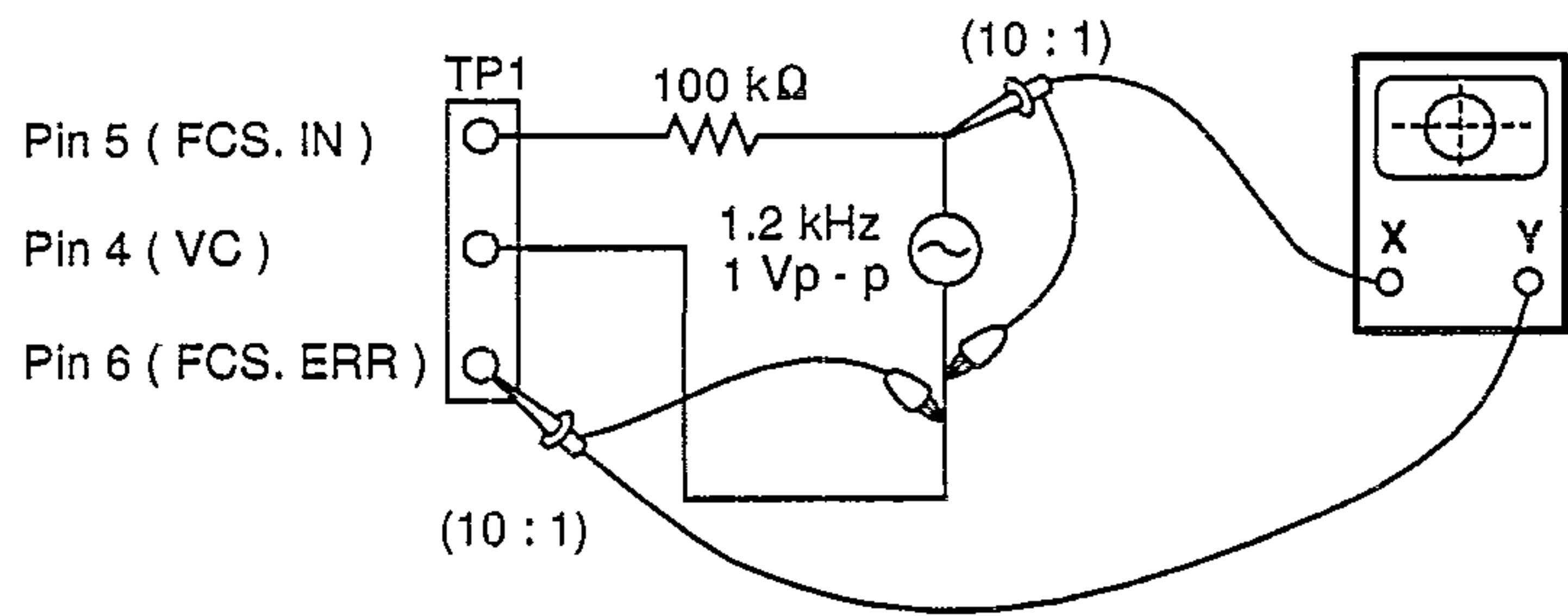
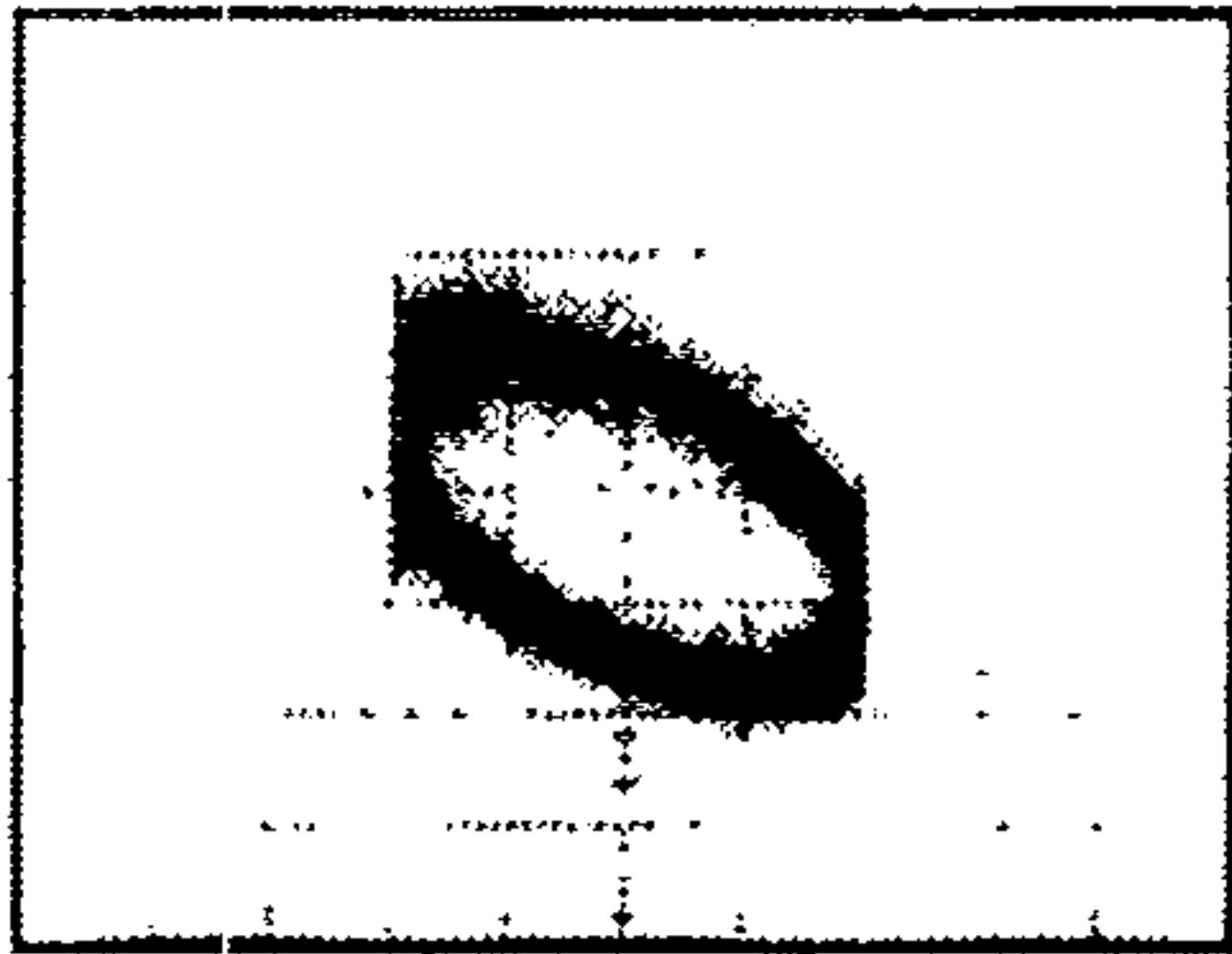
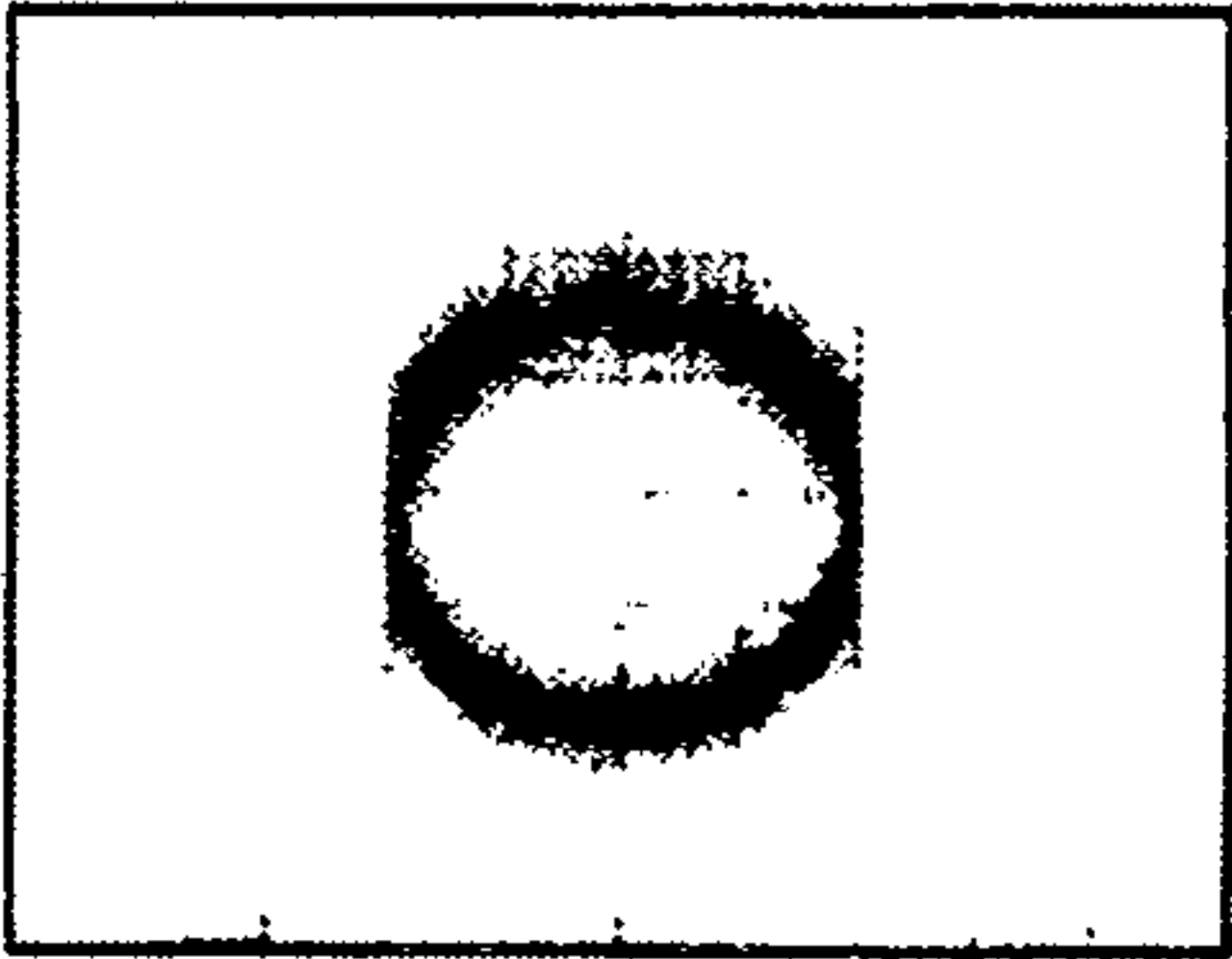


Fig. 3-4

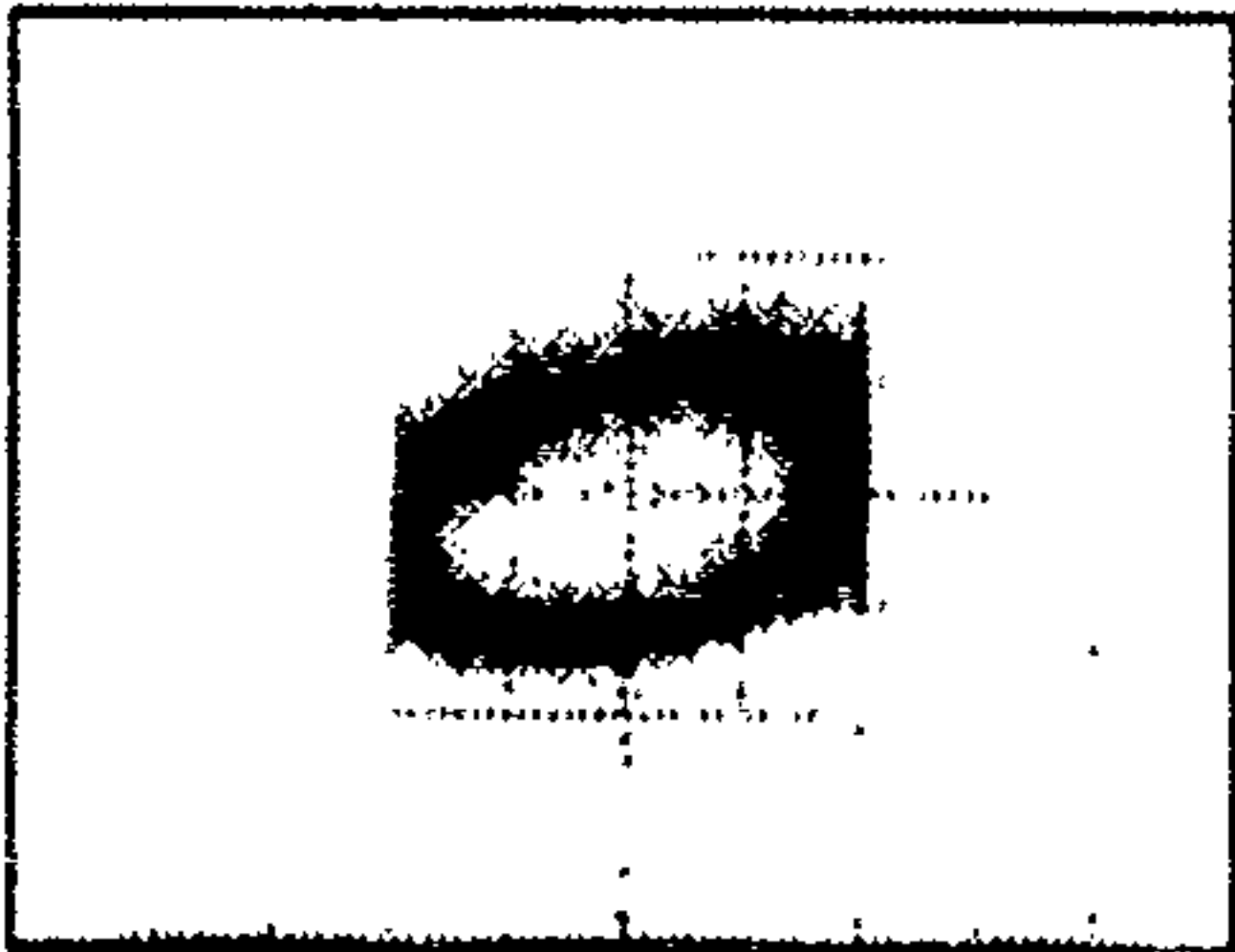
Focus Gain Adjustment



Higher gain



Optimum gain



Lower gain

6. Tracking Servo Loop Gain Adjustment

● Objective	To optimize the tracking servo loop gain.		
● Symptom when out of adjustment	Playback does not start, during searches the actuator is noisy, or tracks are skipped.		
● Measurement Instrument Connections	See Fig. 3-5. [Settings] CH1 50mV/division X-Y mode CH2 20mV/division	● Player State ● Adjustment Location ● Disc	Test mode, play VR151 (TRK. GAN) YEDS-7

[Procedure]

- 1. Set the AF generator output to 1.2kHz and 2Vp-p.
- 2. Press the MANUAL/TRACK SEARCH FWD ►►► key or REV ◄◄◄ key to move the pickup to halfway across the disc (R=35mm), then press the PGM/EDIT key, the PLAY/PAUSE ►/■ key twice in that order to close the corresponding servos and put the player into play mode.
- 3. Adjust VR151 (TRK. GAN) so that the Lissajous waveform is symmetrical about the X axis and the Y axis.

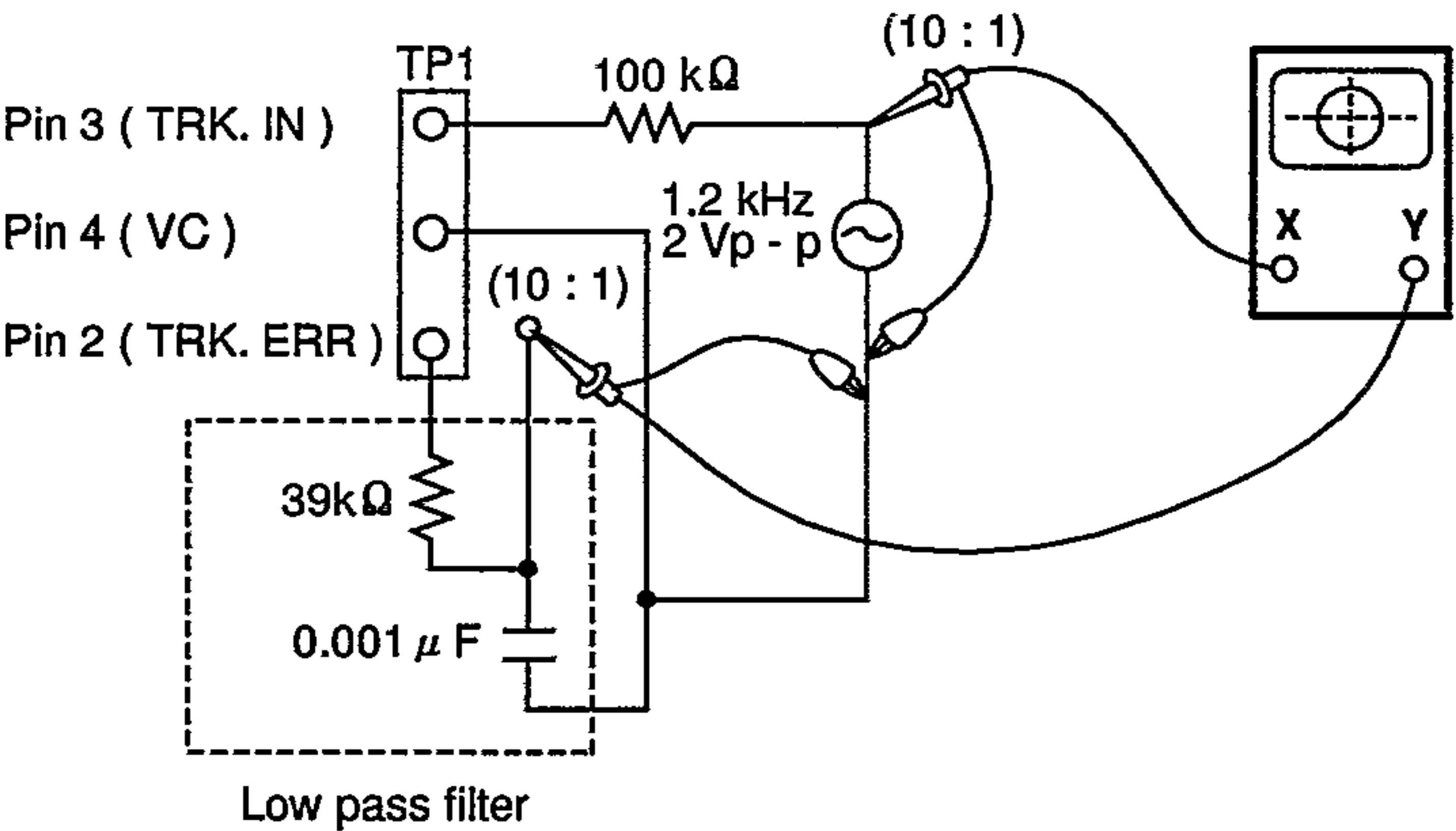


Fig. 3-5

Tracking Gain Adjustment



Higher gain



Optimum gain



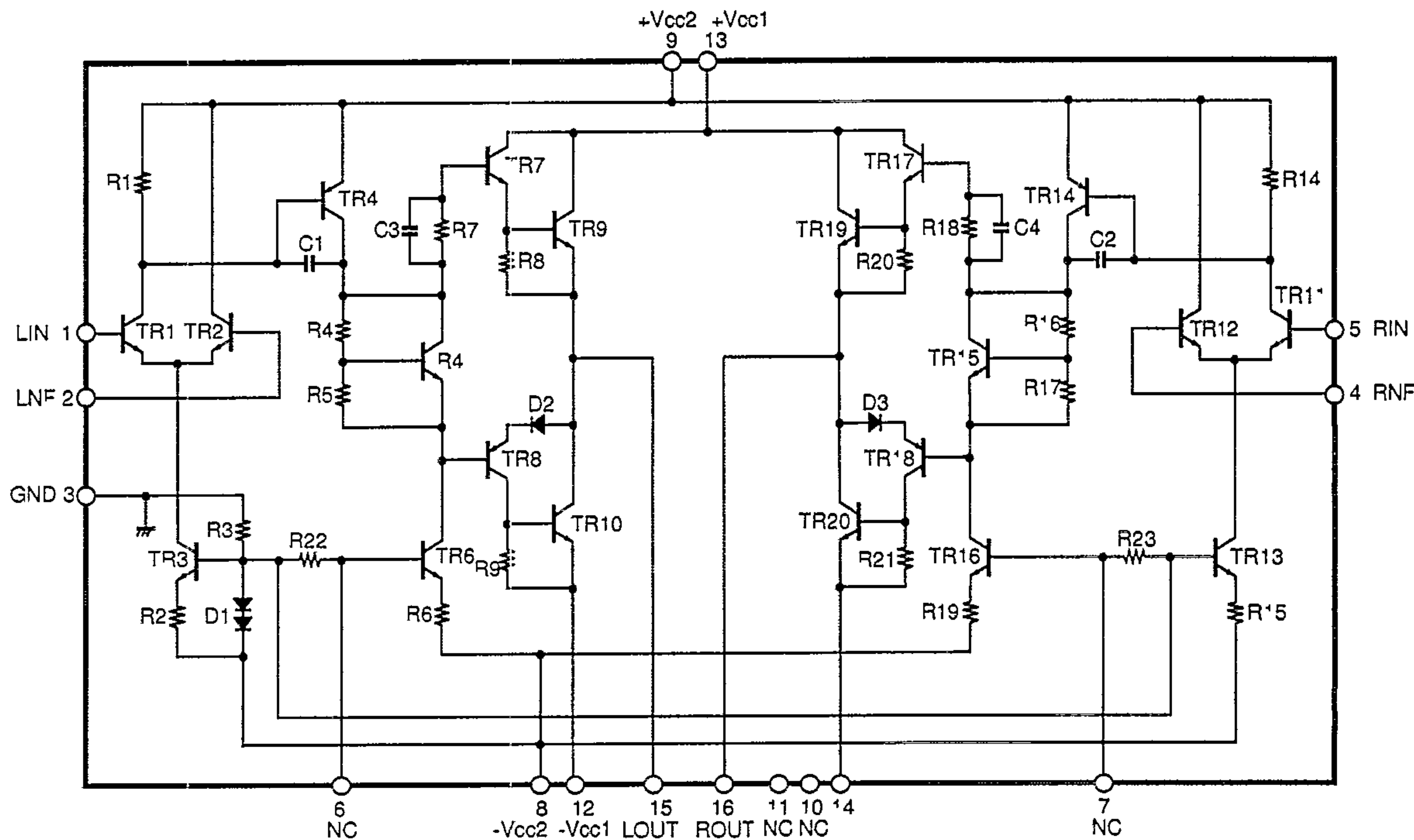
Lower gain

8. IC INFORMATION

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

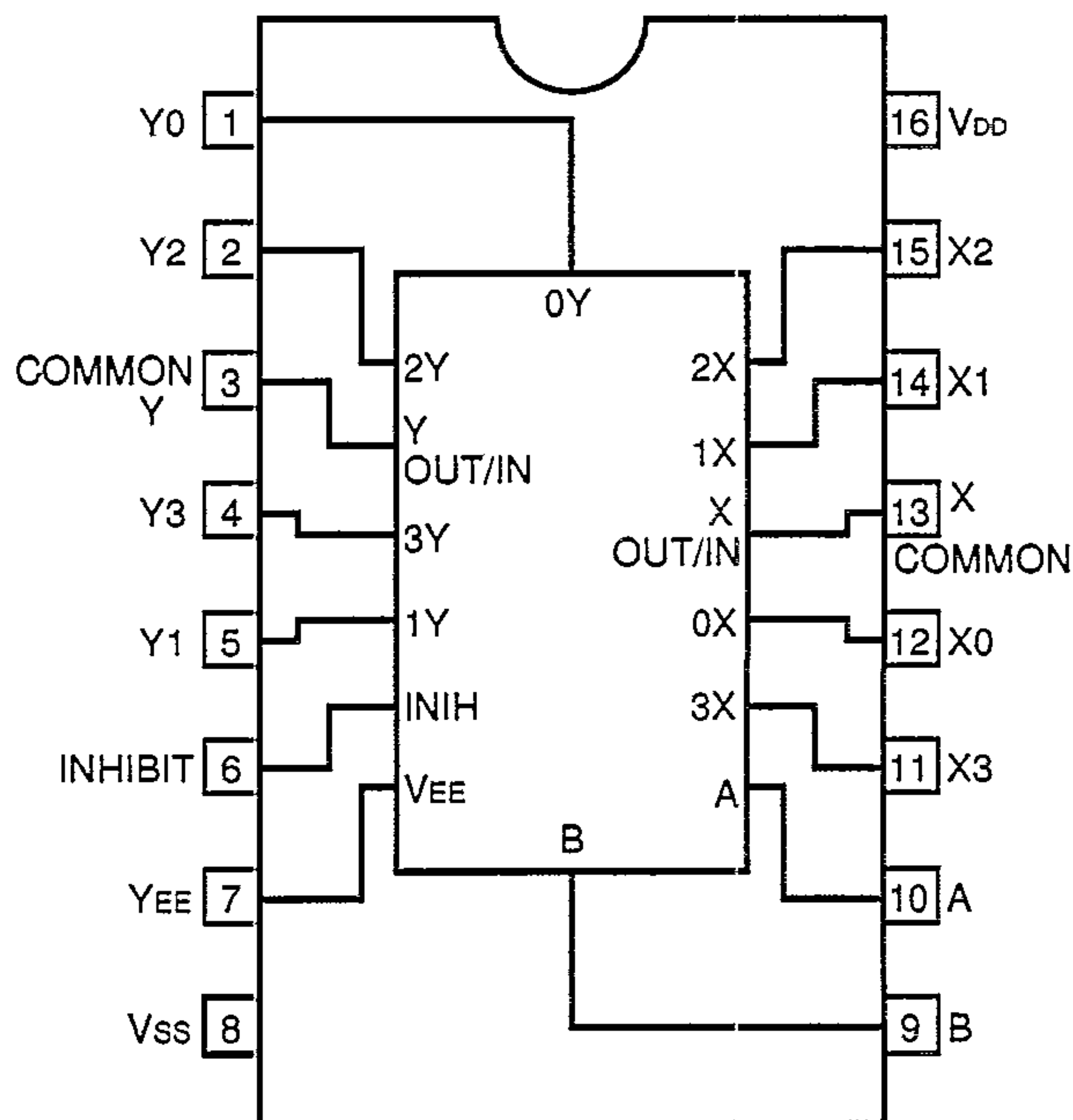
■ STK401-060 [IC2201 : MAIN ASSY (A-P550)]

- 2-ch AF power amplifier
- Block Diagram



■ BU4052BC [IC3102 : PRE. AMP ASSY (F-P550RDS)]

- Dual 4-ch analog multiplexer
- Block Diagram (Top View)



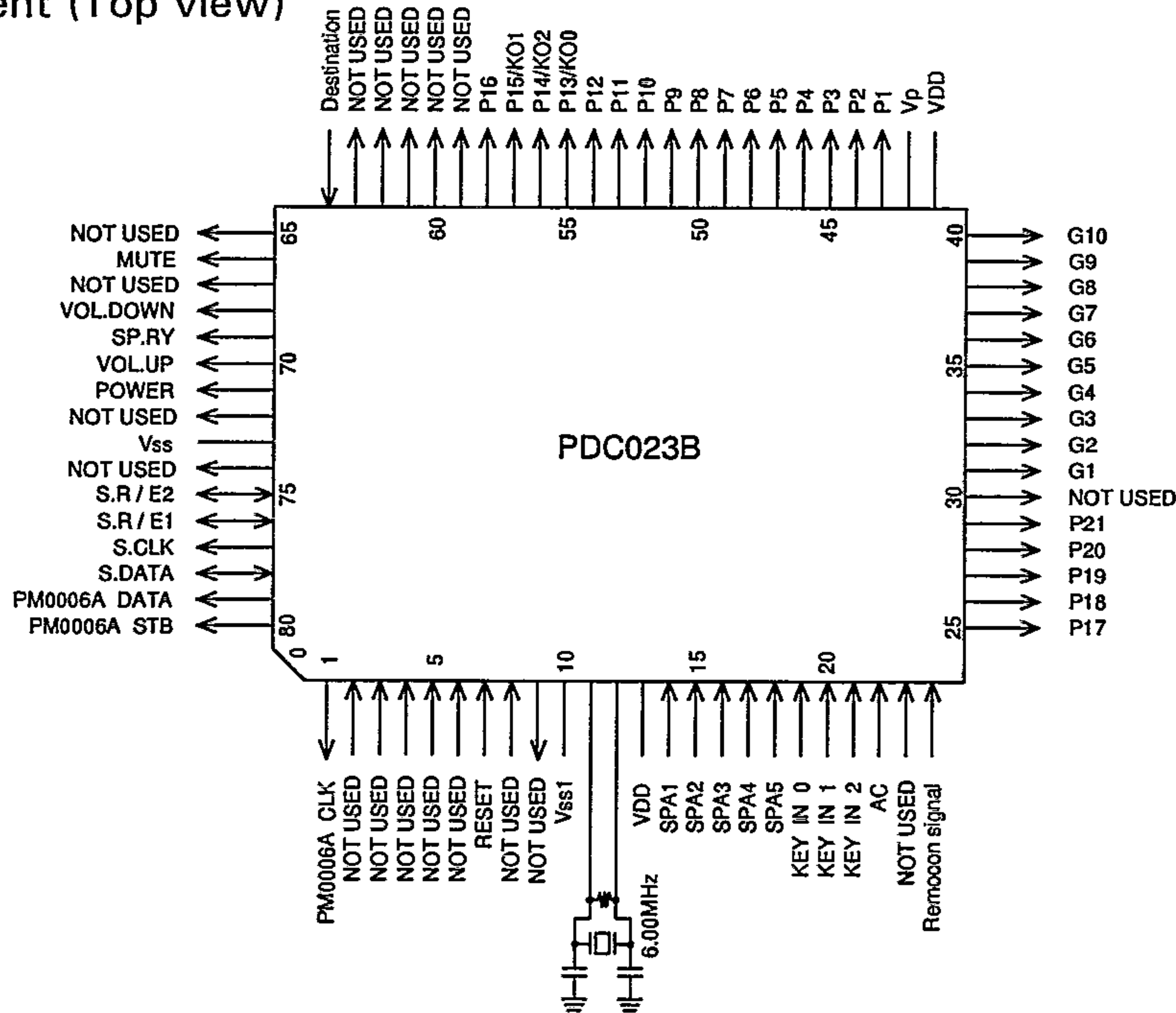
● Truth Table

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X : Don't Care

PDC023B [IC2501 : DISPLAY ASSY (A – P550)]

- System Control Micro-computer
- Pin Assignment (Top view)



Pin Function

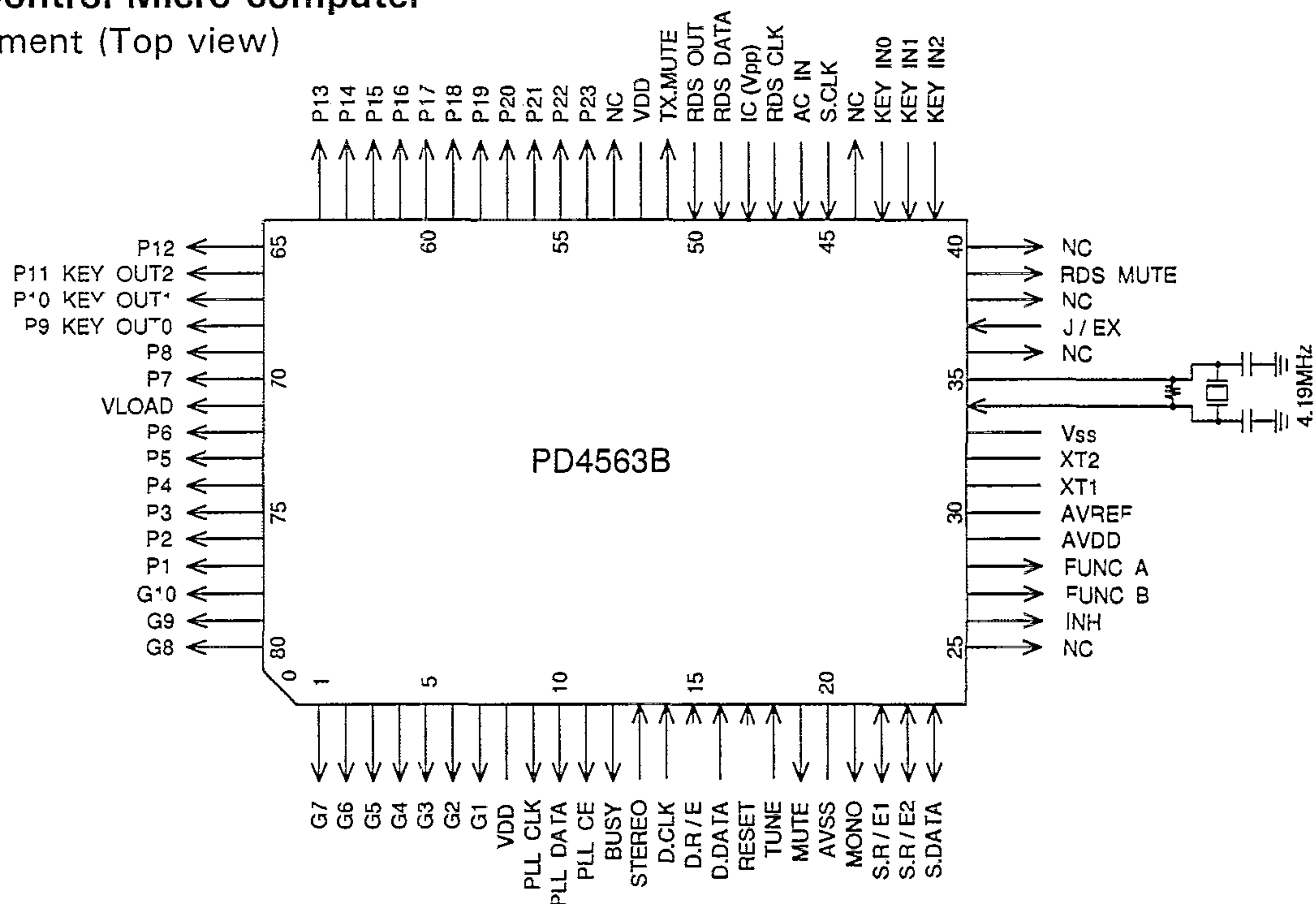
No.	Pin Name	Pin Function	I/O	Description	Act.
1	P17/PWM0	PM0006A CLK	O	PM0006A clock output	
2 5	P30 P33	NOT USED	I	Connected to Vss.	
6	P70/INT0	NOT USED	I	Not connect (internal pull-up)	
7	$\overline{\text{RES}}$	RESET	I	Reset input	
8	XT1/ $\overline{\text{P74}}$	NOT USED	I	Connected to VDD.	
9	XT2/P75	NOT USED	I	Connected to Vss.	
10	Vss1	—	—	Connected to GND.	
11	CF1	—	—	Main system clock (6MHz) Connected to crystal resonator.	
12	CF2				
13	VDD1	—	—	Connected to +5V.	
14	P80/AN0	SPA1	I	Spectrum analyzer input (analog) 10kHz	
15	P81/AN1	SPA2	I	Spectrum analyzer input (analog) 3.3kHz	
16	P82/AN2	SPA3	I	Spectrum analyzer input (analog) 1kHz	
17	P83/AN3	SPA4	I	Spectrum analyzer input (analog) 330Hz	

No.	Pin Name	Pin Function	I/O	Description	Act.
18	P84/AN4	SPA5	I	Spectrum analyzer input (analog) 100Hz	
19	P85/AN5	KI0	I	Key scan • Key return signal input	
21	P87/AN7	KI2			
22	P71/INT1	AC	I	AC input	
23	P72/INT2/T0IN	NOT USED	I	Not connect (Pull-up at inside)	
24	P73/INT3/T0IN	Remocon signal	I	Remote control signal input	
25	S0/T0	P17	O	FL control segment output	
29	S4/T4	P21			
30	S5/T5	NOT USED	O	Not connect	
31	S6/T6	G1	O	FL control digit output	
40	S15/T15	G10			
41	VDD2	—	—	Connected to +5V.	
42	VP	—	—	Connected to power supply (−30V) for FDP.	
43	S16/PC0	P1	O	FL control segment output	
50	S23/PC7	P8			
51	S24/PD0	P9	O	FL control segment output	
54	S27/PD3	P12			
55	S28/PD4	P13/KO1	O	FL control segment output/Key scan strobe output	
56	S29/PD5	P14/KO2			
57	S30/PD6	P15/KO0			
58	S31/PD7	P16	O	FL control segment output	
59	S32/PE0	NOT USED	O	Not connect	
63	S36/PE4				
64	S37/PE5	Destination	I	Destination input (J/ $\overline{\text{EX}}$.)	
65	PO0	NOT USED	O	Not connect	
66	PO1	MUTE	O	Line Mute output	H
67	PO2	NOT USED	O	Not connect	
68	PO3	VOL. DOWN	O	Motor volume control output (VOL DOWN)	L
69	PO4	SP. RY	O	Speaker relay control output	H
70	PO5	VOL. UP	O	Motor volume control output (VOL UP)	L

No.	Pin Name	Pin Function	I/O	Description	Act.
71	PO6	POWER	O	Power control output	H
72	PO7	NOT USED	O	Not connect	
73	Vss	—	—	Connected to GND.	
74	P10/SO0	NOT USED	O	Not connect	
75	P11/SI0/SB0	S.R/E2	I/O	Communication request/enable input and output 2 for system bus communication	
76	P12/SCK0	S.R/E1	I/O	Communication request/enable input and output 1 for system bus communication	
77	P13/SO1	S. CLK	O	Clock input and output for system bus communication	
78	P14/SI1/SB1	S. DATA	I/O	Data input and output for system bus communication	
79	P15/SCK1	PM0006A DATA	O	PM0006A data output	
80	P16/BUZ	PM0006A STB	O	PM0006A strobe output	

■ PD4563B [IC3301 : DISPLAY ASSY (F – P550RDS)]

- System Control Micro-computer
- Pin Assignment (Top view)



● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Act.
1	P94/FIP6	G7	O	FL control digit output	
5	P90/FIP2	G3			
6	P81/FIP1	G2	O	FL control digit output	
7	P80/FIP0	G1			
8	VDD	—	—	Connected to +5V.	
9	P27/ $\overline{\text{SCK0}}$	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	
12	P24/BUSY	BUSY	O	Busy output for system bus communication	
13	P23/STB	STEREO	I	TUNER receive status discrimination	L
14	P22/ $\overline{\text{SCK1}}$	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.	
16	P20/SI1	D. DATA	I	Data input for CD display data communication.	
17	$\overline{\text{RESET}}$	—	I	System reset input	
18	P74	TUNE	I	TUNER tuning status discrimination	L

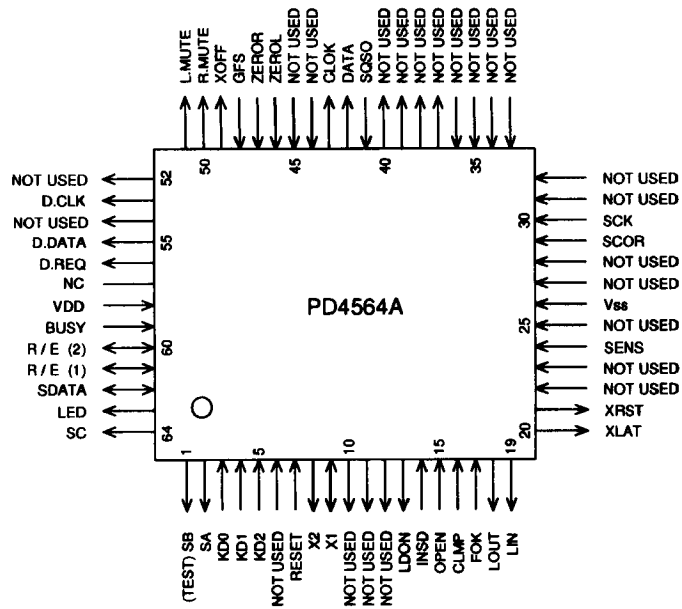
No.	Pin Name	Pin Function	I/O	Description	Act.
19	P73	MUTE	O	LINE MUTE output	L
20	AVSS	—	—	Connected to GND.	
21	P17/ANI7	MONO	O	MONO output	H
22	P16/ANI6	S. R/E1	I/O	Communication request/enable input and output 1 for system bus communication.	
23	P16/ANI5	S. R/E2	I/O	Communication request/enable input and output 2 for system bus communication.	
24	P14/ANI4	S. DATA	I/O	Data input and output for system bus communication.	
25	P13/ANI3	NOT USED	O	Not connect	
26	P12/ANI2	INH	O	MC14052B output (INH)	
27	P11/ANI1	FUNC B	O	MC14052B output (B)	
28	P10/ANI0	FUNC A	O	MC14052B output (A)	
29	AVDD	—	—	Connected to VDD.	
30	AVREF	—	—	Connected to GND.	
31	P04/XT1	NOT USED	—	Connected to GND.	
32	XT2	NOT USED	—	Not connect	
33	VSS	—	—	Connected to GND.	
34	X1	—	—	Main system clock (4.19 MHz) Connected to crystal resonator.	
35	X2	—	—		
36	P37	NOT USED	O	Not connect	
37	P36/BUZ	J/EX	I	Destination (J/ $\overline{\text{EX}}$) discrimination input	
38	P35/PCL	NOT USED	O	Not connect	
39	P34/T12	RDS MUTE	O	RDS circuit ON/OFF	H
40	P33/T11	NOT USED	O	Not connect	
41 43	P32/TO2 P30/TO0	KI2 KI0	I	Key scan • Key return signal input	
44	P03/INTP3/CI0	NOT USED	O	Not connect	
45	P02/INTP1	S. CLK	I	Data input and output 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.	

No.	Pin Name	Pin Function	I/O	Description	Act.
49	P72	RDS DATA	I	RDS data input	
50	P71	RDS OUT	I	RDS receive descimation	
51	P70	TX MUTE	O	Tuner module power ON/OFF	
52	VDD	—	—	Connected to +5V.	
53	P127/FIP33	NOT USED	I	Not connect	
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 P9	O	FL control segment output/key scan strobe output	
69 70	P107/FIP17 P106/FIP16	P8 P7	O	FL control segment output	
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	

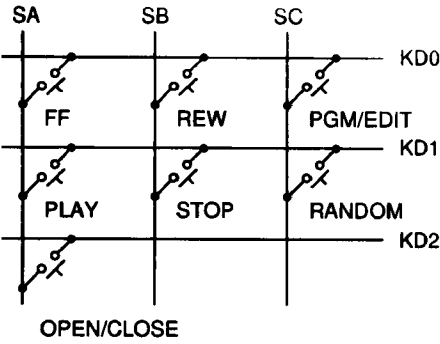
■ PD4564A [IC351 : CD. MAIN ASSY (PD – P550)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

No.	Pin Name	Pin Function	I/O	Description	Act.
1	P41	SB (TEST)	O	Key scan strobe output (TEST MODE)	H
2	P40	SA	O	Key scan strobe output	H
3 5	P53 P51	KD0 KD2	I	Key scan/key return signal input	
6	P50	NOT USED	I	Connected to pin 5.	
7	RESET	RESET	I	Micro-computer reset input	L
8	X2	—	—	Connected to ceramic resonator (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	INSD	I	Slider inside SW input	L
15	P72	OPEN	I	Disc tray OPEN SW input	L
16	P71	CLMP	I	Disc tray CLMP SW input	L

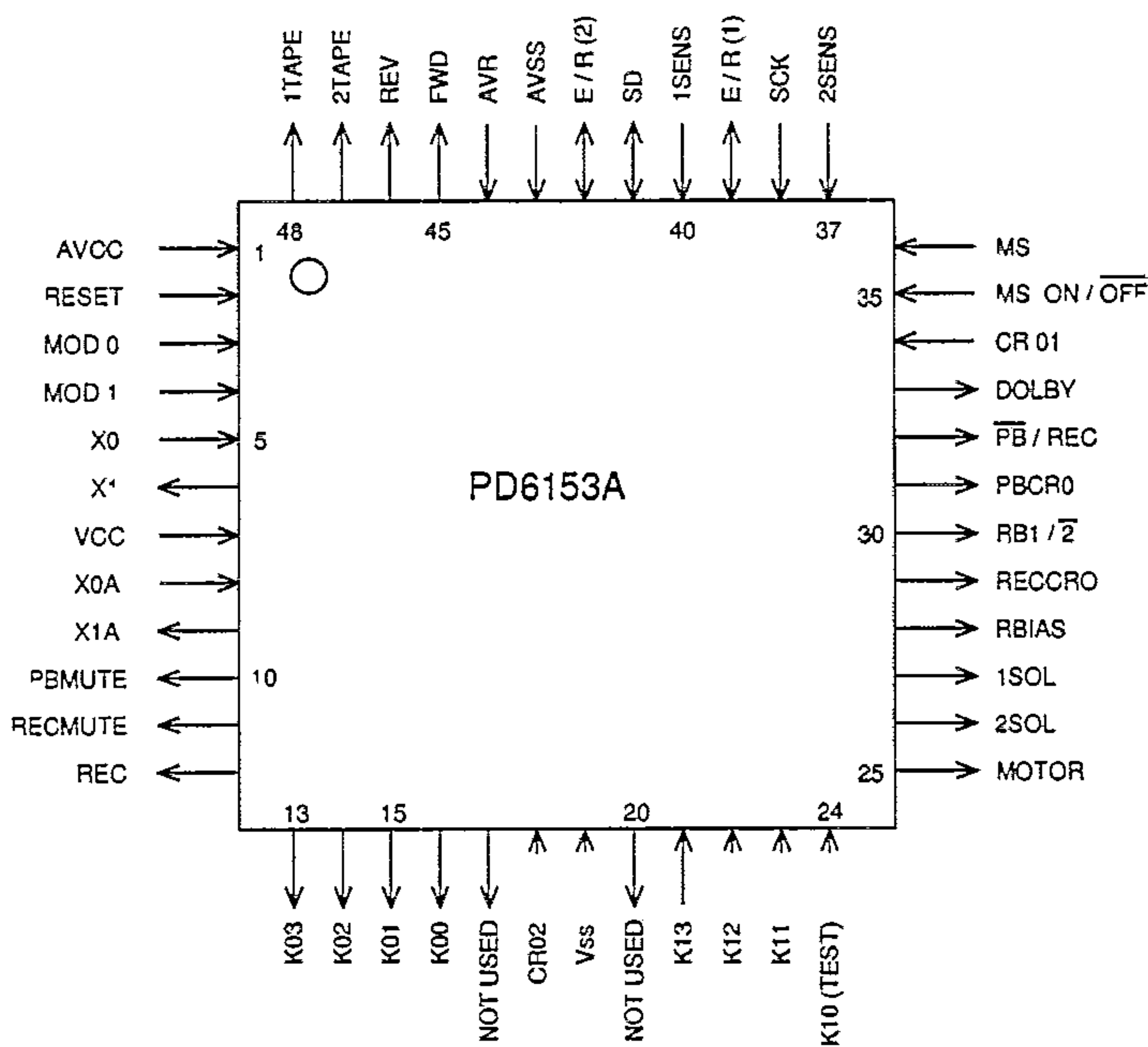
No.	Pin Name	Pin Function	I/O	Description	Act.
17	P70	FOK	I	Focus OK input	H
18	P83	LOUT	O	Disc tray OUT output	L
19	P82	LIN	O	Disc tray IN output	L
20	P81	XLAT	O	CXD2508A latch pulse output	L
21	P80	XRST	O	CXD2508A reset pulse output	L
22	P93	NOT USED	I	Connected to pin 42.	
23	P92				
24	P91	SENS	I	CXD2508A operating status multi-mode input	
25	P90	NOT USED	I	Connected to pin 41.	
26	VSS	VSS	I	Connected to GND.	
27	P13/INT3	NOT USED			
28	P12/INT2				
29	P11/INT1	SCOR	I	Sub cord 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 40	P23 P20	NOT USED	O	OPEN	
41	P03	SQSO	I	Sub code Q data serial input	
42	P02	DATA	O	CXD2508A control data serial output	
43	P01	CLOK	O	CXD2508A control serial clock output	
44	P00	NOT USED	I	Connected to GND.	
45	P123	NOT USED	I	Connected to GND. (internal pull-up)	
46	P122	ZEROL	I	Non audio signal detecting input (Lch)	L
47	P121	ZEROR	I	Non audio signal detecting input (Rch)	L
48	P120	GFS	I	Frame sync lock OK input	H

No.	Pin Name	Pin Function	I/O	Description	Act.
49	P133	XOFF	O	CXD2508A oscillation control output (internal pull-up)	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 (internal pull-up)	L
53	P143	D. CLK	O	Display data clock output	
54	P142	NOT USED	O	OPEN (internal pull-up)	L
55	P141	D. DATA	O	Display data output	
56	P140	D. REQ	O	Display data transmission request output	
57	NC	NOT USED	—	Connected to +5V.	
58	VDD	VDD			
59	P33	BUSY	I	System bus talker enable input	H
60	P32	R/E (2)	I/O	System bus request/enable 2 input and output	H
61	P31	R/E (1)	I/O	System bus request/enable 1 input and output	L
62	P30	SDATA	I/O	System bus data input and output	
63	P43	LED	O	Display LED control output	H
64	P42	SC	O	Key scan strobe output	H

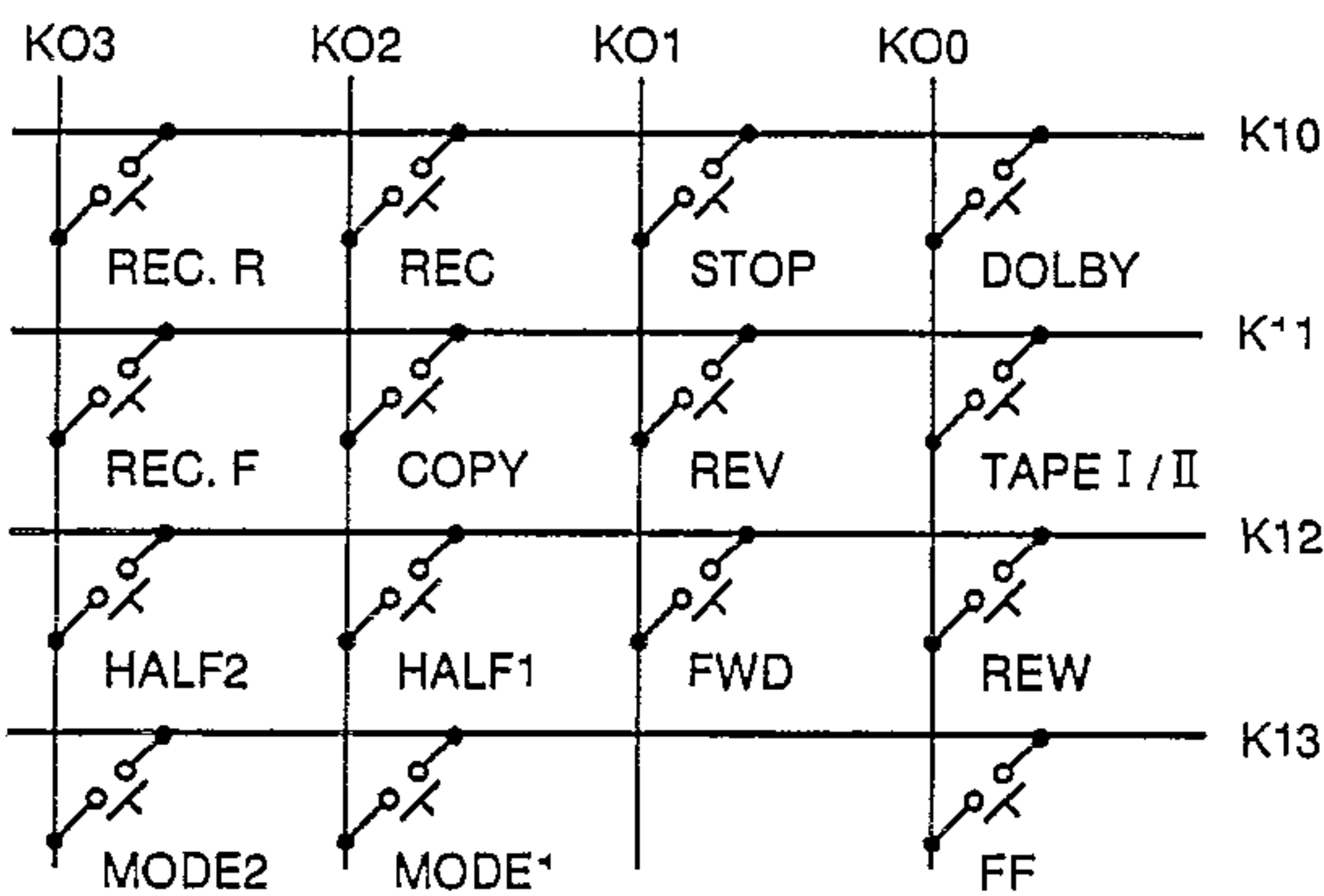
■ PD6153A [IC1701 : TC. MAIN ASSY (CT – P550WR)]

● System Control Micro-computer

● Pin Assignment (Top view)



● Key Matrix



● Pin Function

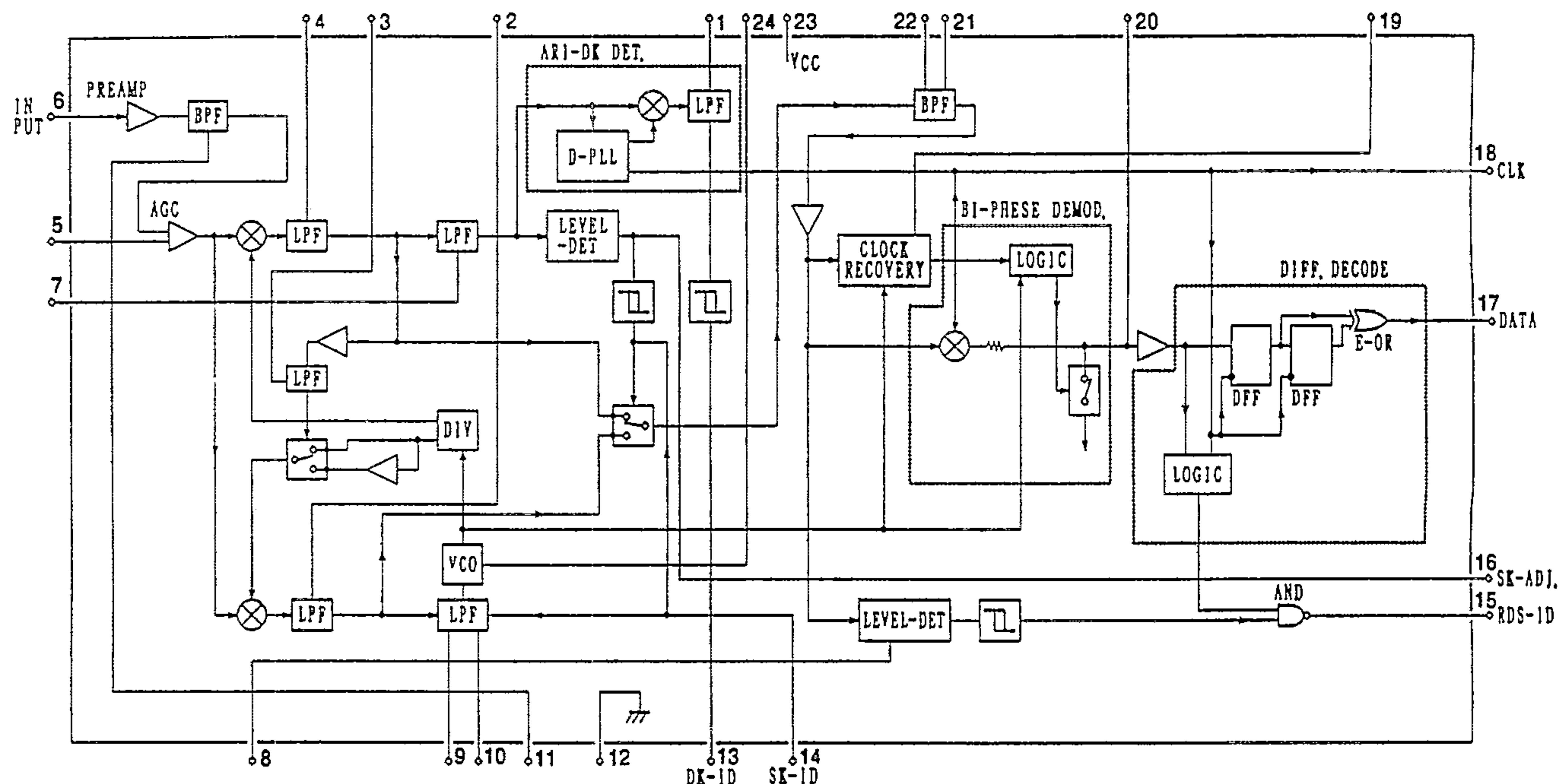
No.	Pin Name	Pin Function	I/O	Description	Act.
1	AVCC	VCC	—	Connected to +5V.	
2	RST	—	—	Micro-computer reset input	
3	MOD0	—	—	Connected to GND.	
4	MOD1	—			
5	X0	—	—	Connected to Ceramic resonator (4.19 MHz).	
6	X1	—			
7	VCC	—	—	Connected to +5V.	
8	X0A	—	—	Connected to GND.	
9	X1A	—	—	OPEN	
10	P27	PBMUTE	O	PB MUTE output	H
11	P26	RECMUTE	O	REC MUTE output	H
12	P25	REC (LED)	O	REC LED output	H
13	P24	KO3	O	Key scan strobe output	H
16	P21	KO0			
17	P20	NOT USED	O	OPEN	L

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

LA2232 [IC3201 : PRE. AMP ASSY (F—P550RDS)]

● RDS Signal Demodulator

● Block Diagram



● Pin Function

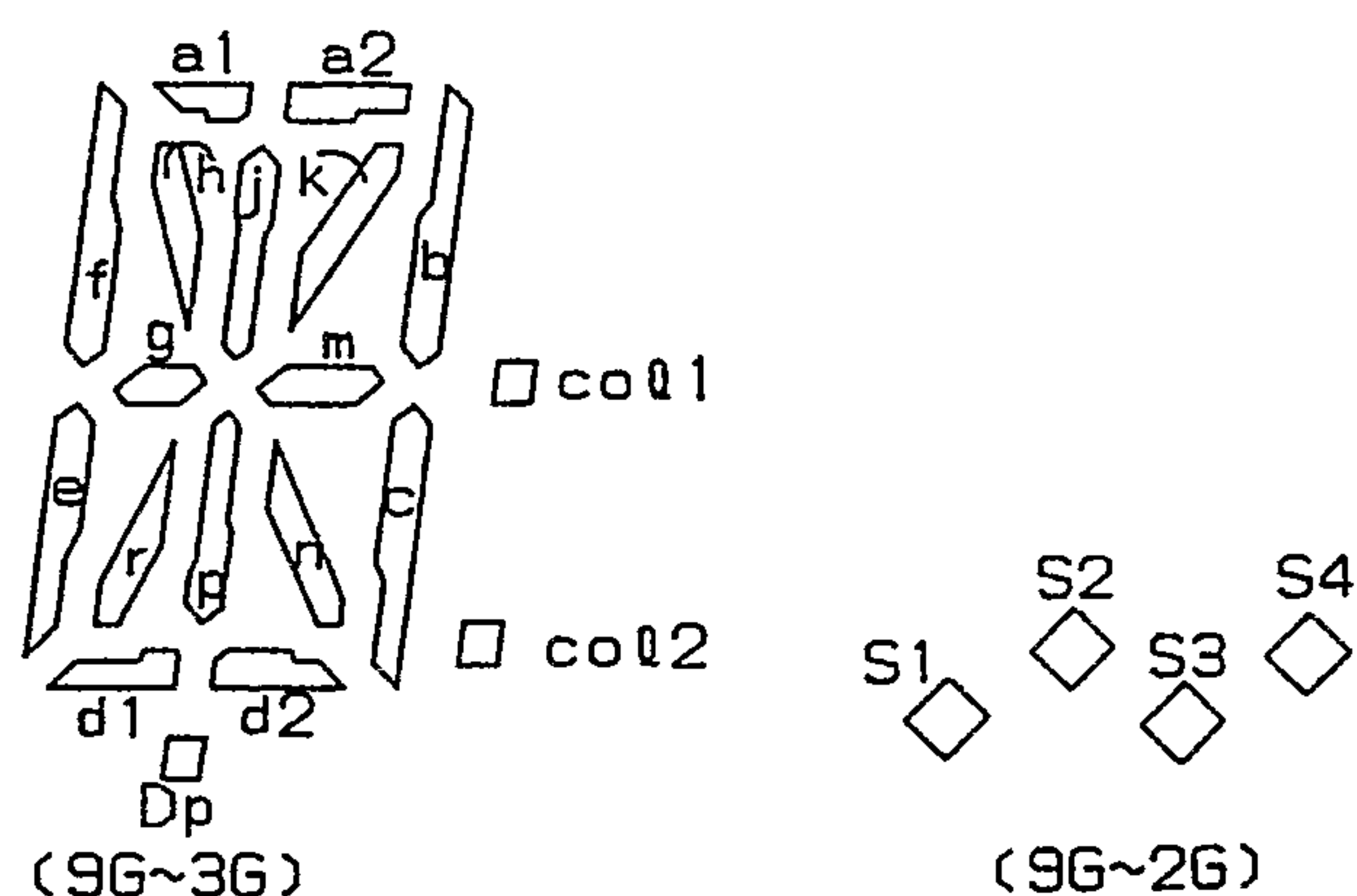
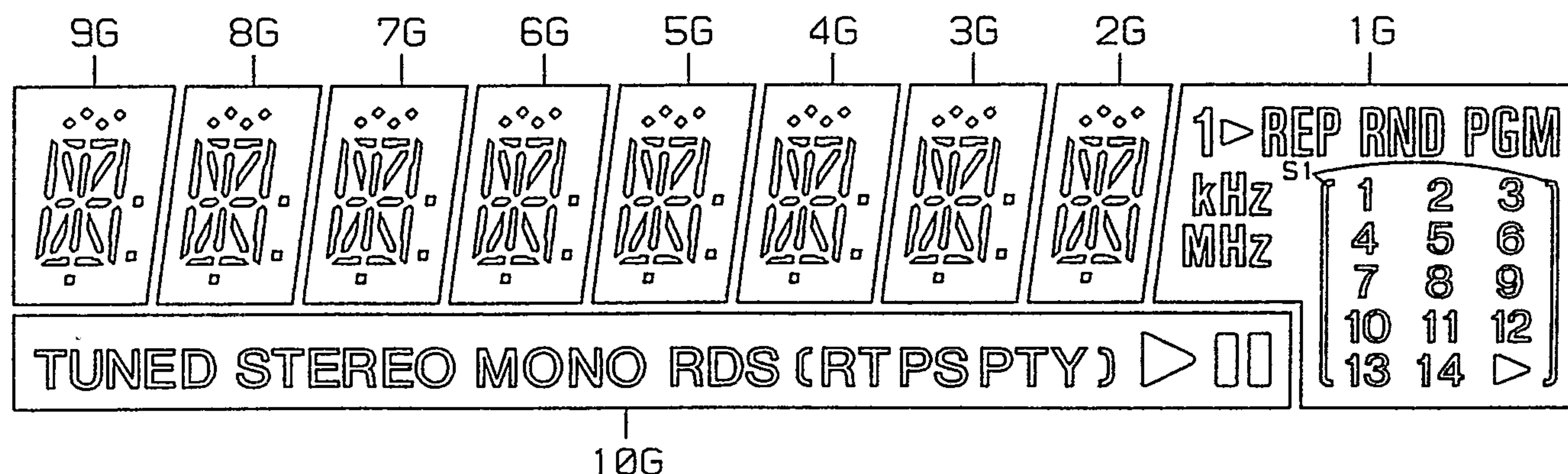
No.	Pin Name	I/O	Description
1	DK filter	—	Low pass filter for DK detection
2	Q—DET	—	Low pass filter for Quadrature detection
3	NC	—	OPEN, Low pass filter for remodulation comparison
4	I—DET	—	Low pass filter for Synchronous detection
5	BYPASS	—	Band pass filter check terminal
6	RDS input	I	RDS input terminal
7	SK filter	—	Low pass filter for SK detection
8	RDS filter	—	Low pass filter for RDS detection
9	PLL loop filter	—	Remodulation comparison method PLL loop filter
10			
11	Filter adjustment	—	Band pass filter (57kHz) adjustment terminal
12	GND	—	GND
13	ARI-DK display	O	ARI-DK display terminal

No.	Pin Name	I/O	Description
14	ARI-SK display	O	ARI-SK display terminal
15	RDS display	O	RDS display terminal
16	SK sensitivity adjustment	—	SK sensitivity adjustment terminal
17	DATA	O	DATA output terminal
18	CLK	O	Clock signal output terminal
19	D—PLL	—	Low pass filter for digital PLL for clock playback
20	INTEG/D	—	Capacitor for integration damp
21	B. E. F.	—	Band pass filter for RDS detection
22			
23	Vcc	—	Vcc +5V
24	VCO	—	456 kHz oscillation circuit

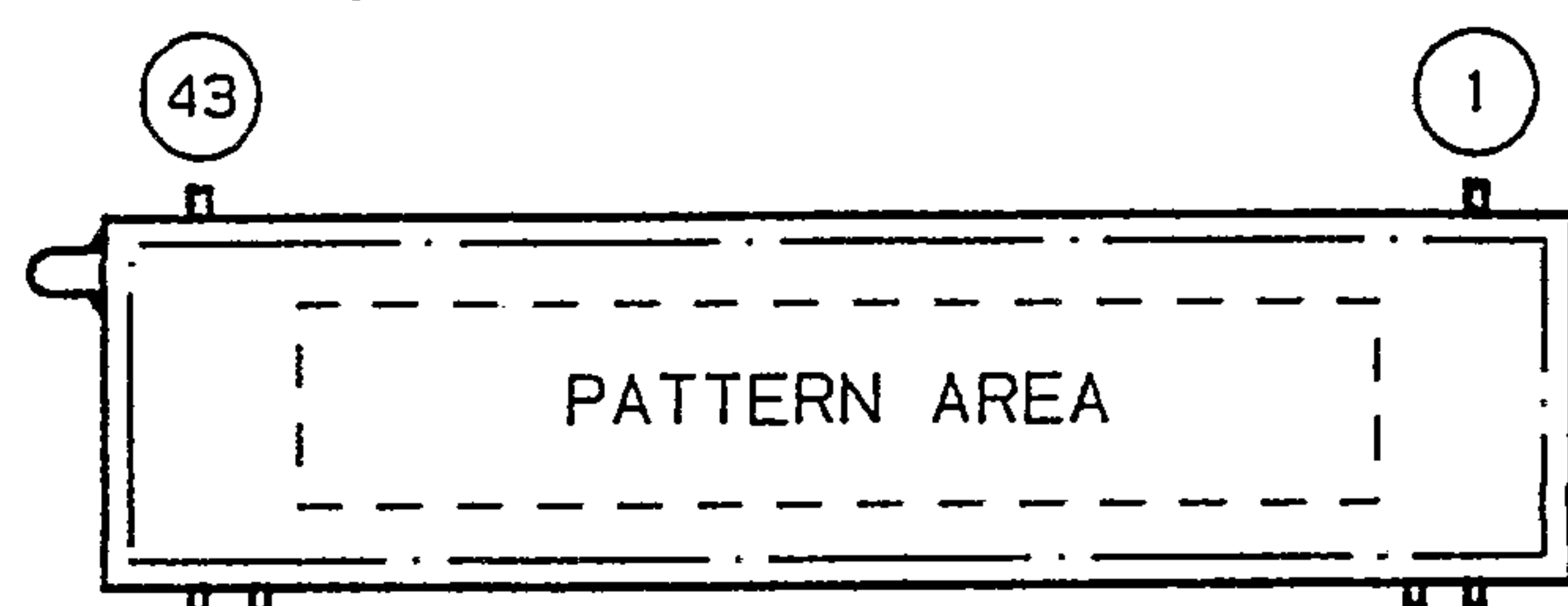
9. FL INFORMATION

RAW1141 [V3301 : DISPLAY ASSY (F-P550RDS)]

- FL Tube
- Grid Assignment



- Pin Assignment



● Pin Connection

NOTE 1) F1,F2 ---- Filament
 2) NP ----- No pin
 3) DL ----- Datum Line
 4) 1G~10G ---- Grid

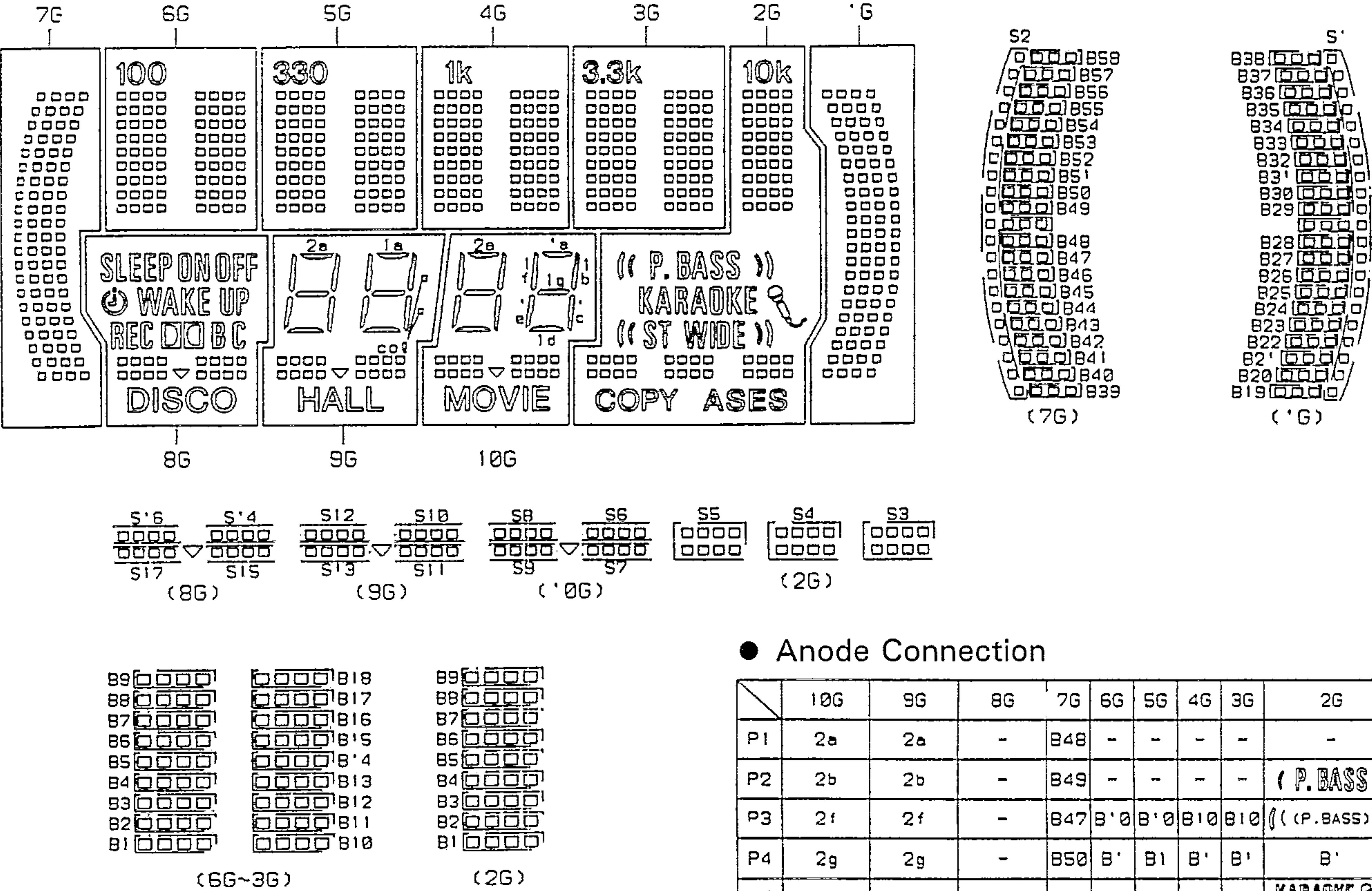
- Anode Connection

	10G	9G~3G	2G	1G
P1	-	S2	S2	1▷
P2	-	S4	S4	REP
P3	-	S1	S1	RND
P4	-	S3	S3	PGM
P5	-	a1	a1	S1
P6	-	a2	a2	1
P7	-	h	h	2
P8	-	j	j	3
P9	-	k	k	4
P10	-	b	b	5
P11	-	f	f	6
P12	-	m	m	7
P13	-	g	g	8
P14	-	coll	-	kHz
P15	STEREO	c	c	9
P16	TUNED	e	e	10
P17	MONO	r	r	11
P18	PTY	p	p	12
P19	PS	n	n	13
P20	RT	coll2	-	MHz
P21	RDS C	d1	d1	14
P22	▷	d2	d2	▷
P23		Dp	Dp	-

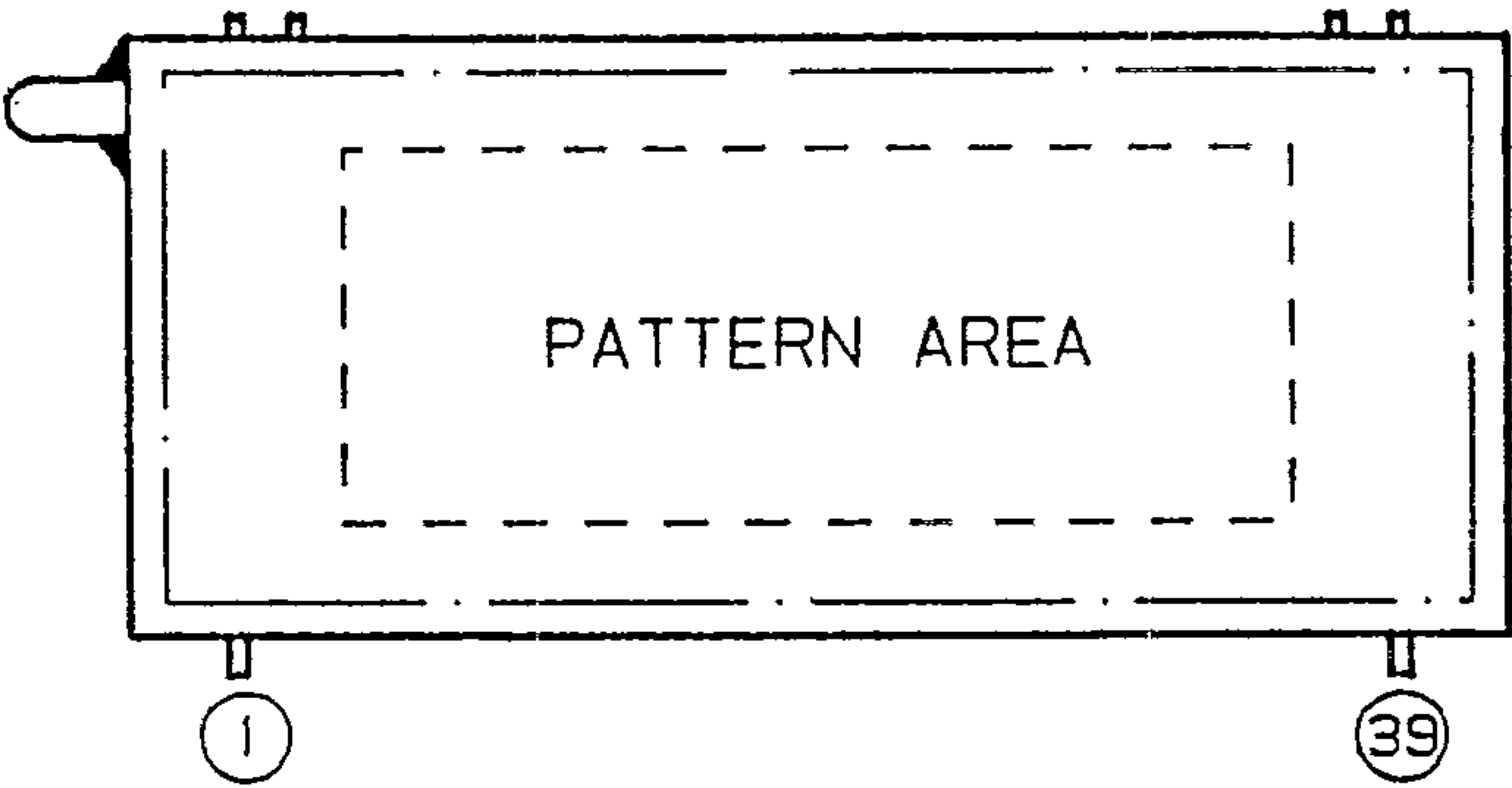
[illegible]

RAW1142 [V2501 : DISPLAY ASSY (A – P550)]

- FL Tube
- Grid Assignment



● Pin Assignment



● Pin Connection

- NOTE
- 1) F1, F2 --- Filament
 - 2) NP ----- No pin
 - 3) DL ----- Datum Line
 - 4) 1G~10G --- Grid

● Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2a	2a	-	B48	-	-	-	-	-	B28
P2	2b	2b	-	B49	-	-	-	-	(P.BASS)	B29
P3	2f	2f	-	B47	B'0	B'0	B'0	B'0	(((P.BASS)))	B27
P4	2g	2g	-	B50	B'	B'	B'	B'	B'	B30
P5	2c	2c	-	B46	B''	B''	B''	B''	KARAOKE	B26
P6	2e	2e	-	B51	B2	B2	B2	B2	B2	B31
P7	2d	2d	OFF	B45	B'2	B'2	B'2	B'2	(ST WIDE)	B25
P8	-	col	ON	B52	B3	B3	B3	B3	B3	B32
P9	1a	1a	SLEEP	B44	B'3	B'3	B'3	B'3	(((S' WIDE)))	B24
P10	1b	1b	⏻	B53	B4	B4	B4	B4	B4	B33
P11	1'	1'	WAKE UP	B43	B'4	B'4	B'4	B'4	S3	B23
P12	1g	1g	REC	B54	B5	B5	B5	B5	B5	B34
P13	1c	1c	⏻	B42	B'5	B'5	B'5	B'5	S4	B22
P14	1e	1e	B	B55	B6	B6	B6	B6	B6	B35
P15	1d	1d	C	B41	B'6	B'6	B'6	B'6	S5	B21
P16	S8	S12	S16	B56	B7	B7	B7	B7	B7	B36
P17	S6	S10	S14	B40	B'7	B'7	B'7	B'7	ASES	B20
P18	▽	▽	▽	B57	B8	B8	B8	B8	B8	B37
P19	S9	S'3	S17	B39	B'8	B'8	B'8	B'8	CCPY	B19
P20	S7	S11	S'5	B58	B9	B9	B9	B9	B9	B38
P21	MOVIE	HALL	DISCO	S2	100	330	1k	3.3k	10k	S1

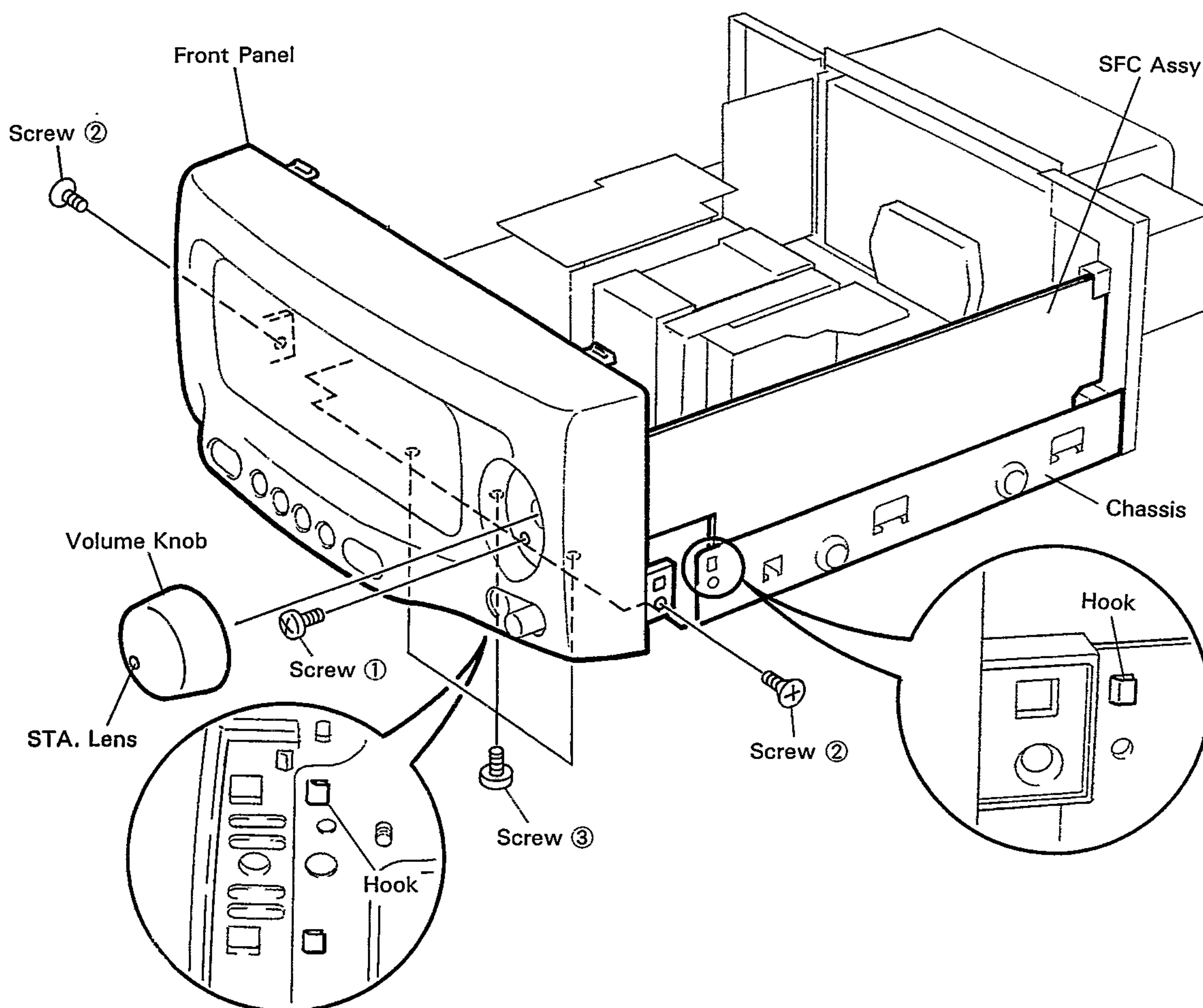
PIN NO.	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	
CONNECTION	F	F	F	N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1	9	8	7	6	5	4	3	2	1	2	2	1	1	1	N	F	F	F
	1	1	1	P	8	7	6	5	4	3	2	1	9	0	1	2	3	4	5	6	G	G	G	G	G	G	G	G	G	G	1	0	9	8	7	P	2	2	2	

10. DISASSEMBLY

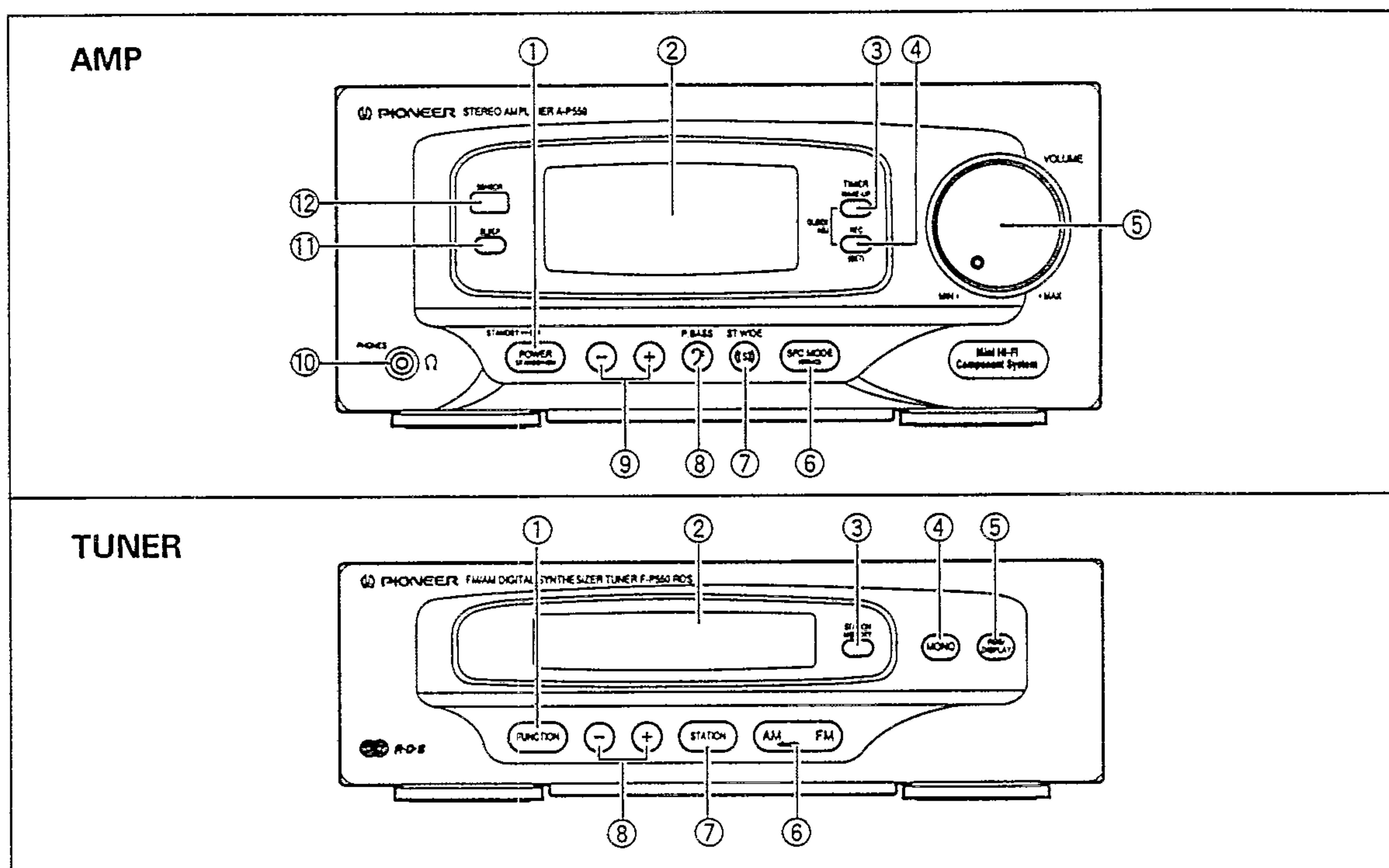
■ STEREO AMPLIFIER (A – P550)

● Removal of the Front Panel

1. Remove the bonnet.
2. Remove the volume knob.
(Please be careful, as the STA. LENS is in the volume knob.)
3. Remove the screw ① holding the SFC assy.
4. Remove the left and right screw ② (each one) fixing the front panel to chassis.
5. Remove the three screws ③ at the lower side of the front panel.
6. Disengage the left and the right hook of the front panel (refer to figure) and the hook at the lower part, and then remove the front panel from the chassis.



11. PANEL FACILITIES



AMP

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.

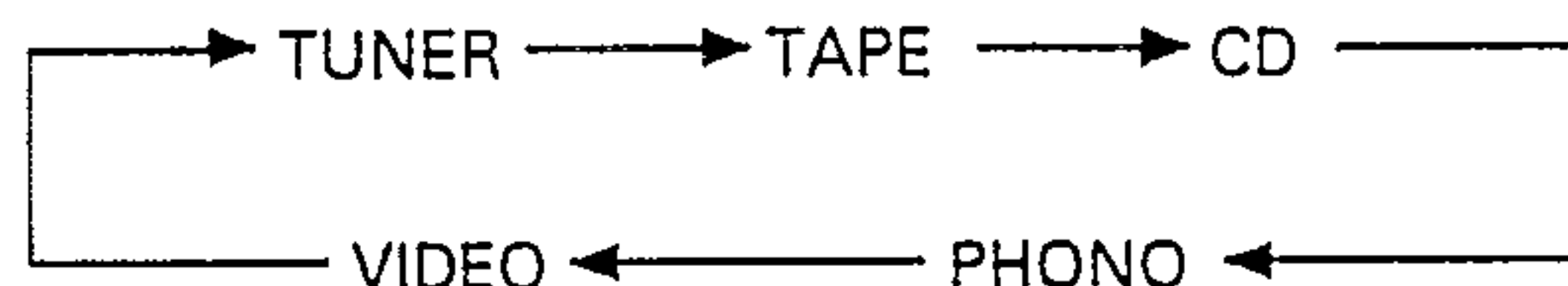
STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

- ② Display
- ③ TIMER WAKE-UP button
- ④ Timer REC (SET) button
- ⑤ VOLUME control
- ⑥ SFC MODE (DEMO) button
- ⑦ ST WIDE button
- ⑧ P. BASS button
- ⑨ Clock adjust (+, -) buttons
- ⑩ Headphones jack (PHONES)
- ⑪ SLEEP button
- ⑫ Remote sensor (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.):



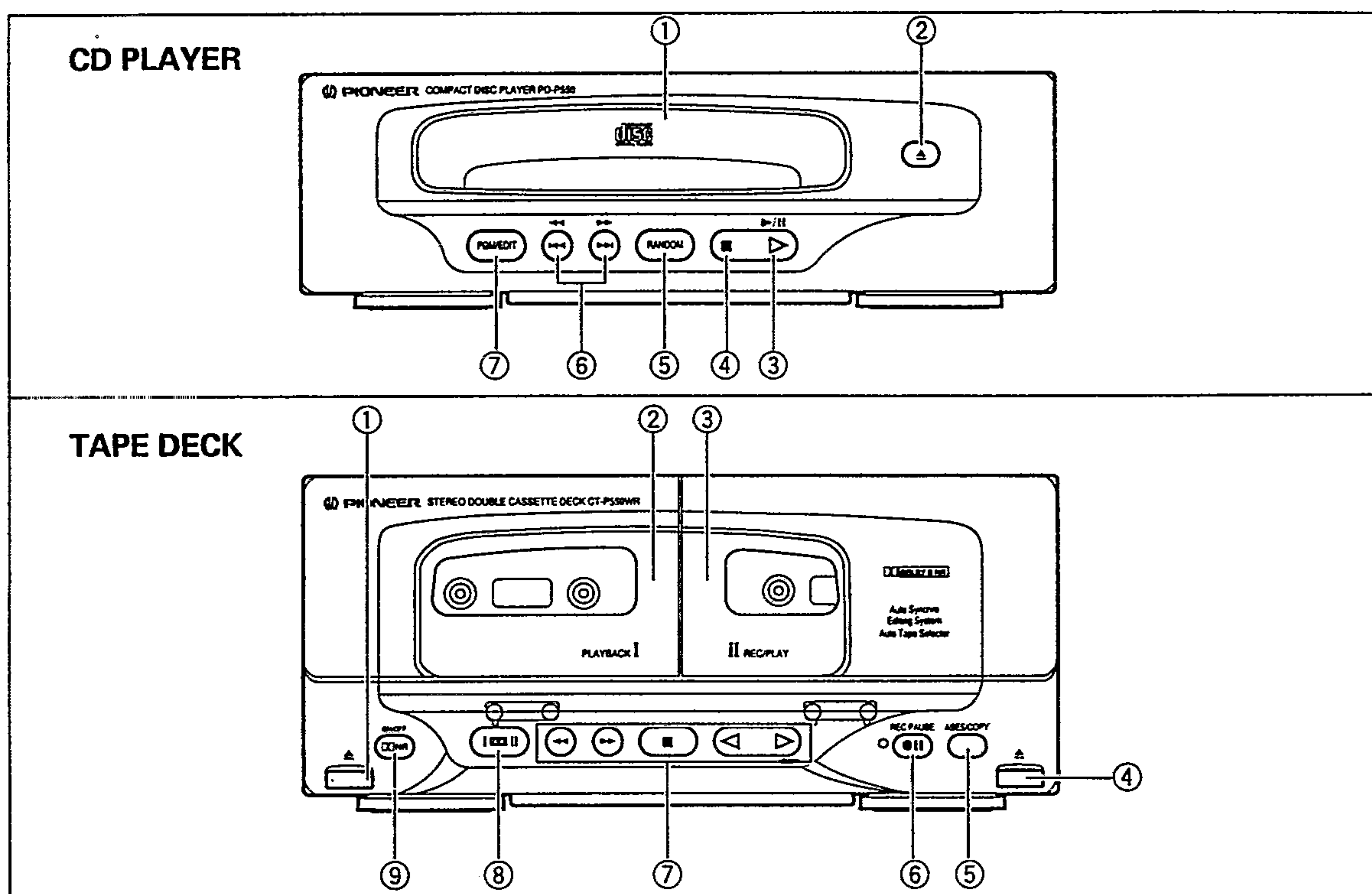
■ AUTO FUNCTION

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 MONO button
- ⑤ RDS/DISPLAY button
- ⑥ AM/FM button
- ⑦ STATION button
- ⑧ Tuning (+, -) buttons



CD PLAYER

- ① Disc tray
- ② Open/close button (▲)
- ③ Play/pause button (▶/II)
- ④ Stop button (■)
- ⑤ RANDOM button
- ⑥ Manual/track search buttons
(|◀◀ ▶▶|)
- ⑦ PGM (Program)/EDIT button

TAPE DECK

- ① Tape I eject button (▲)
- ② Tape I cassette door
- ③ Tape II cassette door
- ④ Tape II eject button (▲)
- ⑤ ASES (Auto Synchro Editing System)/COPY button
- ⑥ REC PAUSE button (●II)
- ⑦ Tape operation buttons
(Fast◀◀ ▶▶, Stop■, Play◀ ▶)
- ⑧ Tape I/II selector button
- ⑨ Dolby* NR (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.

12. SPECIFICATIONS

Amplifier section

Music power (DIN) 70 W + 70 W
Continuous Power Output (DIN)..... 40 W + 40 W
(1 kHz, T.H.D. 1%, 8 Ω)
Continuous Power Output (RMS)..... 50 W + 50 W
(1 kHz, T.H.D. 10%, 8 Ω)
Dimensions..... 260 (W) x 116 (H) x 305 (D)mm
Weight 3.8 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 μ V/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 81 (H) x 253 (D)mm
Weight..... 1.4 kg

CD Section

Type Compact disc digital audio system
Wow and Flutter Limit of measurement
($\pm 0.001\%$ W.PEAK) or less (EIAJ)
S/N Ratio (EIAJ) 96 dB
Dimensions 260 (W) x 81 (H) x 249 (D) mm
Weight 1.8 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 II	
(HIGH/CrO ₂) tape	35 Hz to 15,000 Hz ± 6 dB
TYPE I	
(Normal) tape	35 Hz to 14,000 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 116 (H) x 245 (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..... 240 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.