Service manual
BASF 8200 HiFi Stereo-Deck CrO_2

January 1974

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DISASSEMBLY INSTRUCTIONS

1. How to Remove Bottom Cover:

Remove the screws ((1) through (7)) securing the bottom cover in place. (Refer to Fig. 1.)

2. How to Remove Chassis:

First, remove the Memory Button (a). Next, remove the five screws ((1) through (5)) and two struts ((6) and (7)) fixing the chassis to the main case. (Refer to Fig. 2.)

3. How to Remove Main Circuit Board:

Remove the five screws ((A) through (E)) securing the main circuit board in place. (Refer to Fig. 2.)

4. How to Remove Dolby/NR Circuit Board:

Remove the four screws ((F) through (I)) securing the same circuit board in place. (Refer to Fig. 2.)

5. How to Remove AUTOMATIC STOP/CrO_2 Selector Switch Circuit Board:

Remove the screw (J) securing the circuit board in place and pull the circuit board rightward for removal. (Refer to Fig. 2.)

6. How to Remove FWD Switch Circuit Board:

Remove the screw (K) securing the circuit board in place. (Refer to Fig. 2.)

7. How to Remove Fuse Holder:

Remove the two screws securing the fuse holder in place. (Refer to Fig. 2.)

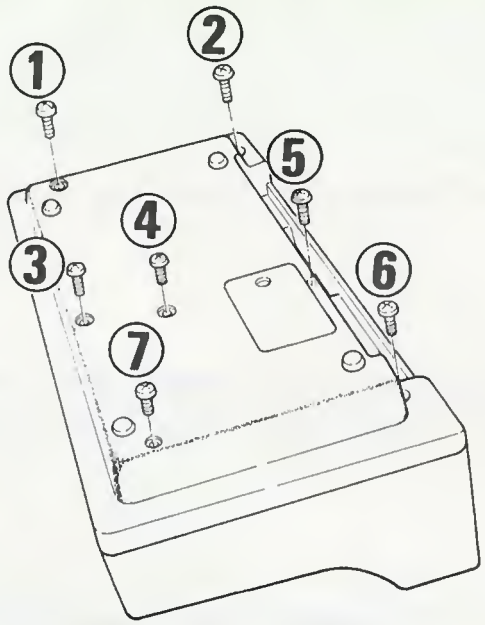

1
2
3
4
5
6
7

Fig. I

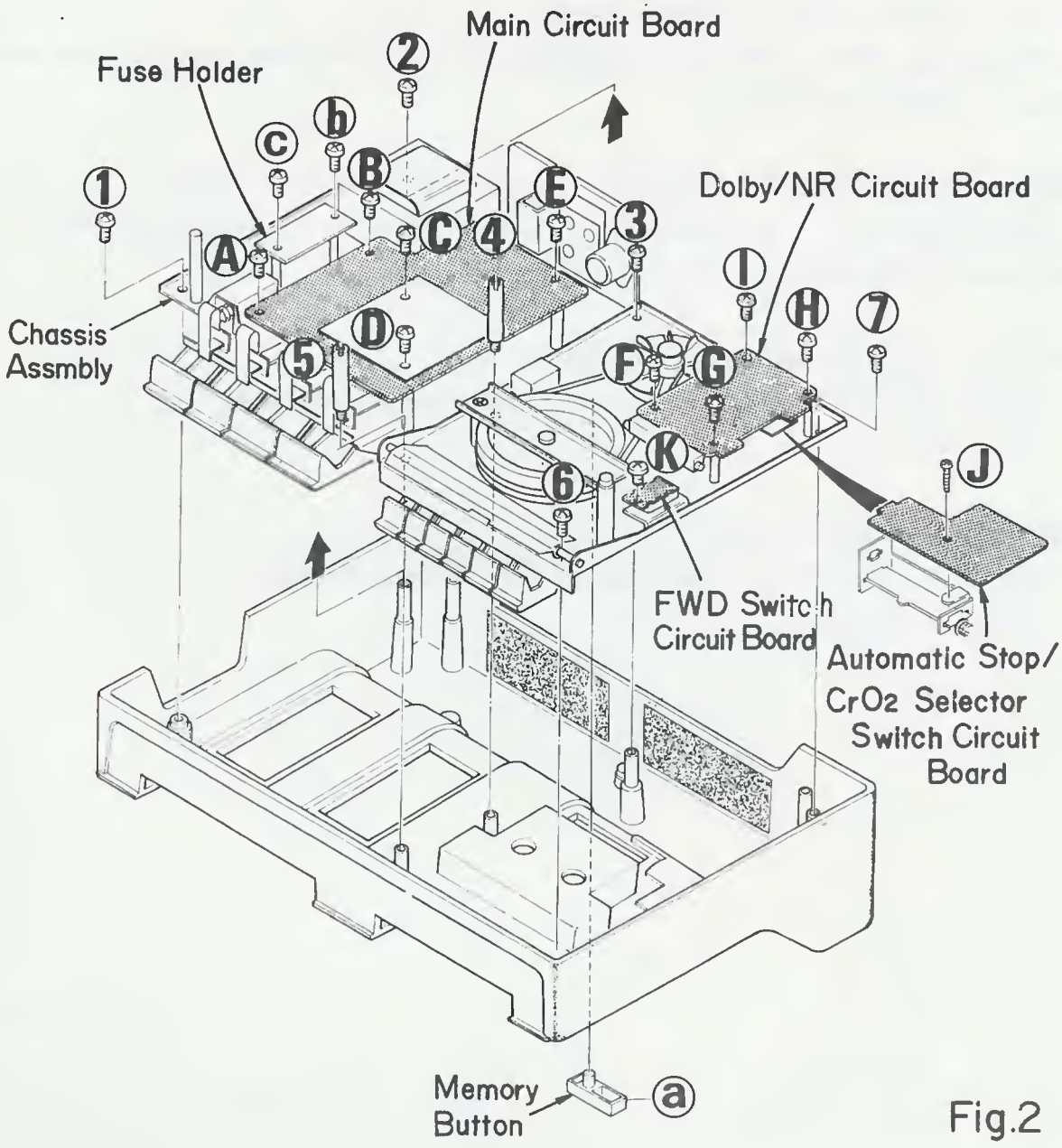

Main Circuit Board
Fuse Holder
Dolby/NR Circuit Board
Chassis
Assmbly
FWD Switch
Circuit Board
Automatic Stop/
CrO2 Selector
Switch Circuit
Board
Memory
Button
a
A
B
C
D
E
F
G
H
I
J
K
b
c

Fig.2

1. Thrust Adjustment of Flywheel Assembly:

1) Fix the flywheel retainer plate, and move the flywheel assembly up or down and adjust the thrust to 0.2-0.3 mm by turning the thrust adjuster screw. (Refer to Fig. 4.)

2. Tape Travel Adjustment:

1) Adjust tape travel so that tape may travel smoothly through the tape guide and untouched by the upper or lower frame of the tape guide as indicated in Fig. 5.

2) If tape leans toward the upper frame of the tape guide as it travels as indicated in Fig. 6, correct this improper tape travel by moving the adjuster collar in the direction indicated by the arrow mark (A). (Refer to Fig. 8.)

3) If tape leans toward the lower frame of the tape guide as it travels as indicated in Fig. 7, move the adjuster collar in the direction indicated by the arrow mark (B) for required adjustment. However, note that there must be always a 0.2-0.3 mm gap between the pinch roller and the pinch roller return pin. (Refer to Fig. 9.)

3. Timing Adjustment of FWD Control:

1) Pushing the FWD button slowly downward, confirm that both the takeup reel platform and pinch roller start revolving simultaneously.

2) If the pinch roller starts revolving earlier than the takeup reel platform when operated as in 1) above, replace the idler collar with the adjuster collar. (Refer to Fig. 10.)

4. Timing Adjustment of PAUSE Control:

1) Depress the FWD button to set the set to Play position. Now, pressing the PAUSE button slowly, check the timing at which the takeup reel platform and pinch roller come to halt.

2) If the pinch roller becomes disengaged from the capstan too soon and tape thus keeps on running, bend the PAUSE lever toward the (B) direction as indicated by the arrow.

3) If the takeup reel platform does not revolve but tape is taken up onto the pinch roller because the timing at which the pinch roller becomes disengaged from the capstan is lagging, bend the PAUSE lever toward the (A) direction. (Refer to Fig. 11.)

5. Pinch Roller Pressure:

250 - 350 g

6. Tape Speed:

4.76 cm/sec. (1-7/8 ips.) ±1.5%
Use the standard test tape according to DIN 45507 (3150 Hz),or equivalent for the measurement.

7. Wow and Flutter:

0.2% DIN WTD. Overall

8. Takeup Torque:

30 - 50 g/cm.

9. Fast Forward Torque:

90 - 160 g/cm.

10. Rewind Torque:

90 - 160 g/cm.

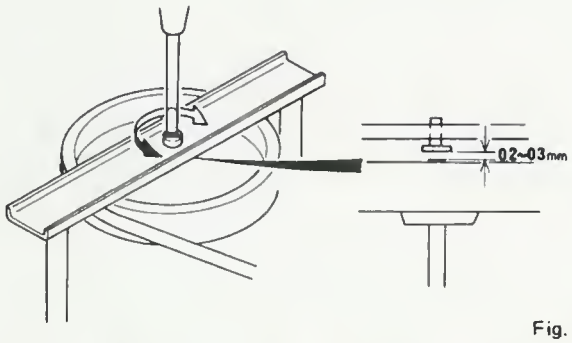


Fig. 4

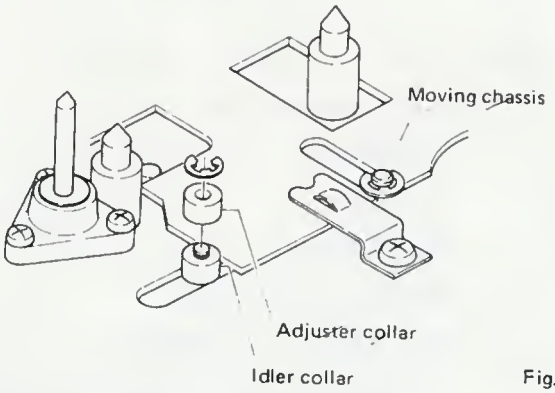


Fig. 10

Fig. 5

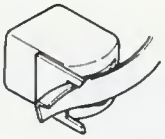


Fig. 6

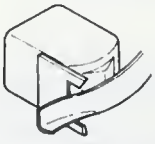


Fig. 7

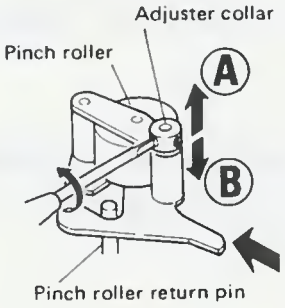


Fig. 8

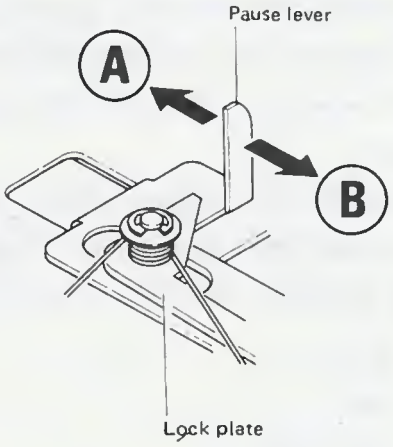


Fig. 11

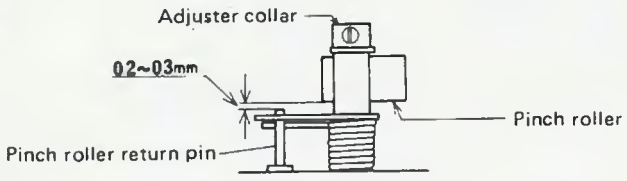


Fig. 9

Preparations for Adjustments

1. Tools and Instruments Required
   - Signal generator
   - Attenuator
   - V.T.V.M.
   - Oscilloscope
   - Resistor, 600 ohms
   - Test tapes including:

     Standard test cassette 4,75/3,81 Cr according to DIN 45513 ,sheet 7

     " " 4,75/3,81 Fe according to DIN 45513 ,sheet 6

     Dolby level cassette (20 mM/mm,400 Hz)

2. Precautions

1) Before proceeding for the adjustments, clean surface of the head, capstan shaft, and pinch roller with gauze moistened with alcohol.

2) Demagnetize the record/playback head with a head eraser.

3) Make sure a screwdriver for the adjustment use has been completely demagnetized.

4) Set the recording volume to maximum.

5) Unless otherwise specified, the switches should be set as indicated below. Use the DIN (REC/PB) Jack for input and output connections.

DOLBY.....OFF
DNL.....OFF
AUTOMATIC.....OFF
POWER.....ON

- Location of Main Parts

  (See Fig. 12.)

- Connections

  (See Fig. 13.)

Playback Adjustments

1. Azimuth Adjustment

Play back the 10-kHz portion of the test tape 4,75/3,81 Cr and adjust the azimuth adjuster screw of the record/playback head for the maximum R-Ch and L-Ch outputs. After this adjustment, fix the adjuster screw in the adjusted position by means of screw-locking paint.

2. Dolby Level Adjustment

Connect the V.T.V.M. between the test point TP 103 (TP 104 for R-Ch) and the ground (E). Adjust the gain adjuster semi-fixed resistor SFR 111 (SFR 112 for R-Ch) until the V.T.V.M. indicates 580 mV.

3. Adjustment of "CrO_2" Playback Frequency Response

Play back the test tape 4,75/3,81 Cr and adjust the semi-fixed resistor SFR 107 (SFR 108 for R-Ch) provided for the playback frequency response adjustment so that the frequency response for 10-kHz signal may be on a level with that for 1-kHz signal. After the adjustment made respectively for L-Ch and R-Ch, confirm that output difference between the two channels is within 1 dB.

4. Confirmation of "NORMAL" Playback Frequency Response

Play back the test tape 4,75/3,81 Fe and confirm that the frequency response levels at 3 kHz, 6.3 kHz and 8 kHz are all within $\pm$1 dB when compared with the 1-kHz level.

5. Confirmation of Dolby Level

It is possible that the previously adjusted Dolby level may become changed with the playback frequency response adjustment. After the playback frequency response adjustment, therefore, confirm the Dolby level is exactly 580 mV. If other than 580 mV, readjust the Dolby level to 580 mV.

Recording Adjustments

1. Trap Coil Adjustment

Connect the V.T.V.M. between the trap adjustment test point TP 105 (TP 106 for R-Ch) and the ground, and adjust the trap coil L 107 (L 108 for R-Ch) for the minimum V.T.V.M. reading (0.2 V or lower).

2. Bias Current Adjustment

Set the recording volume to minimum. Connect the V.T.V.M. between the bias adjustment test point TP 101 (TP 102 for R-Ch) and the ground. Adjust the bias current adjuster semi-fixed resistor SFR 107 (SFR 108 for R-Ch) for the V.T.V.M. reading of 1.8 mV.

The trap coil and bias current adjustments mentioned above should be repeated alternately for a few times in order to eliminate possible deviation of one adjustment caused by the other.

3. Dolby-In Trap Coil Adjustment

Set the recording volume to maximum. Connect the V.T.V.M. between the test point TP 107 (TP 108 for R-Ch) and the ground. Adjust the Dolby-In trap coil L 101 (L 102 for R-Ch) for the minimum V.T.V.M. reading.

When so adjusted, it minimizes interference of bias current with input to the Dolby unit.

4. Recording Current Adjustments

1) Recording current adjustment at "CrO_2" position:

Connect the V.T.V.M. between the test point TP 103 (TP 104 for R-Ch) and the ground. Feed 400-Hz signal through the DIN Jack and adjust the input attenuator for the V.T.V.M. reading of 580 mV. Record this signal on the test tape 4,75/3,81 Cr. Play back the recording and read output during the playback. Adjust the recording current adjuster semi-fixed resistor SFR 105 (SFR 106 for R-Ch) so that the output level may be 580 mV.

After all these adjustments, confirm again that both the recording and output levels remain unchanged at 580 mV.

2) Recording current adjustment at "NORMAL" position:

Make this adjustment in the same manner as for the recording current adjustment above, using SFR 103 for L-Ch and SFR 104 for R-Ch. Use the test tape 4,75/3,81 Fe for this adjustment.

5. Level Meter Adjustment

Apply 400-Hz signal through MIC Jack. Connect the V.T.V.M. between the test point TP 103 on the P.C.B.-A and the ground. Adjust the input attenuator for the V.T.V.M. reading of 580 mV. Then, adjust the level meter adjuster semi-fixed resistor SFR 101 (SFR 102 for R-Ch) so that the Level Meter's pointer of the set may point to 0 VU.

6. DNL Adjustment

Set the DNL Switch to ON. Adjust the signal generator to 1 kHz, 650 mV = 0 dB. Set the attenuator to -52 dB. Apply the signal between the test point TP 201 of the P.C.B.-A and the ground. Connect the V.T.V.M. between the test point TP 203 and the ground. Finally, adjust SFR 201 (SFR 202 for R-Ch) so that output obtained with frequency of the signal generator set to 10 kHz may be -20 dB when compared with the output level in the 1-kHz setting which is taken as the reference value.

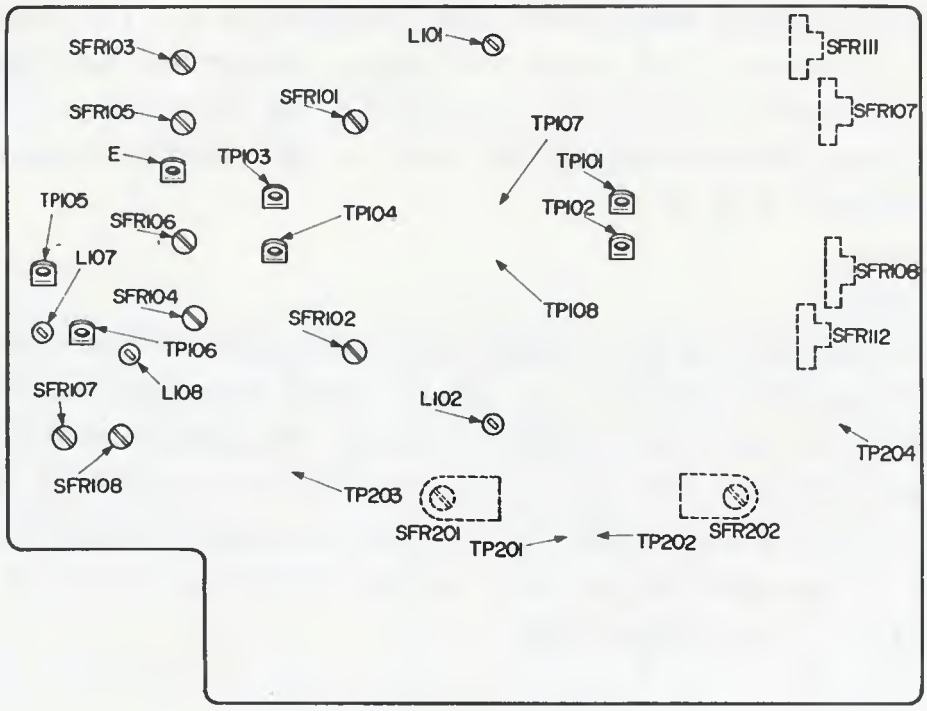

SFR103
L101
SFR111
SFR105
SFR101
SFR107
TP107
E
TP103
TP101
TP105
TP104
TP102
SFR106
L107
SFR108
SFR104
TP108
SFR102
TP106
SFR112
L108
SFR107
L102
TP204
SFR108
TP203
SFR201
SFR202
TP201
TP202

Fig.12

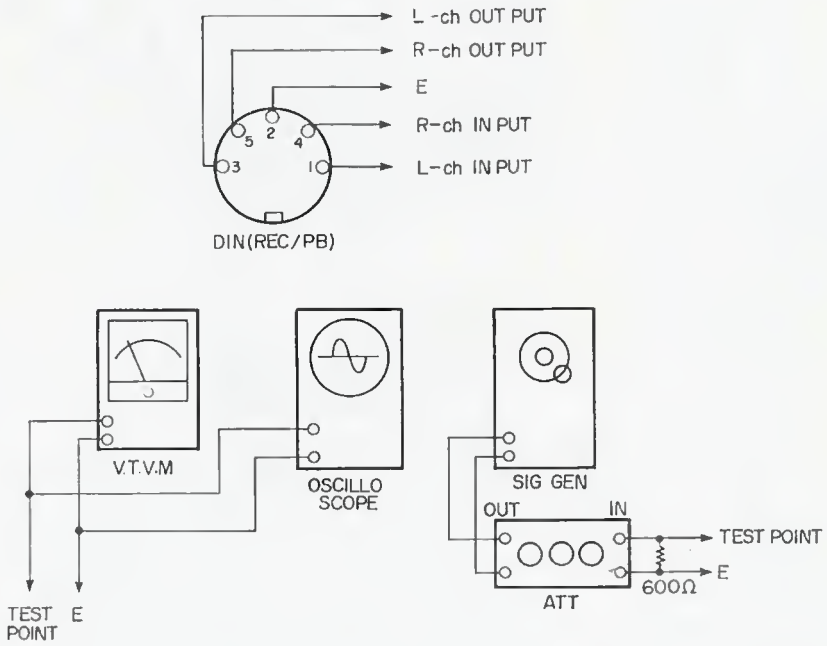
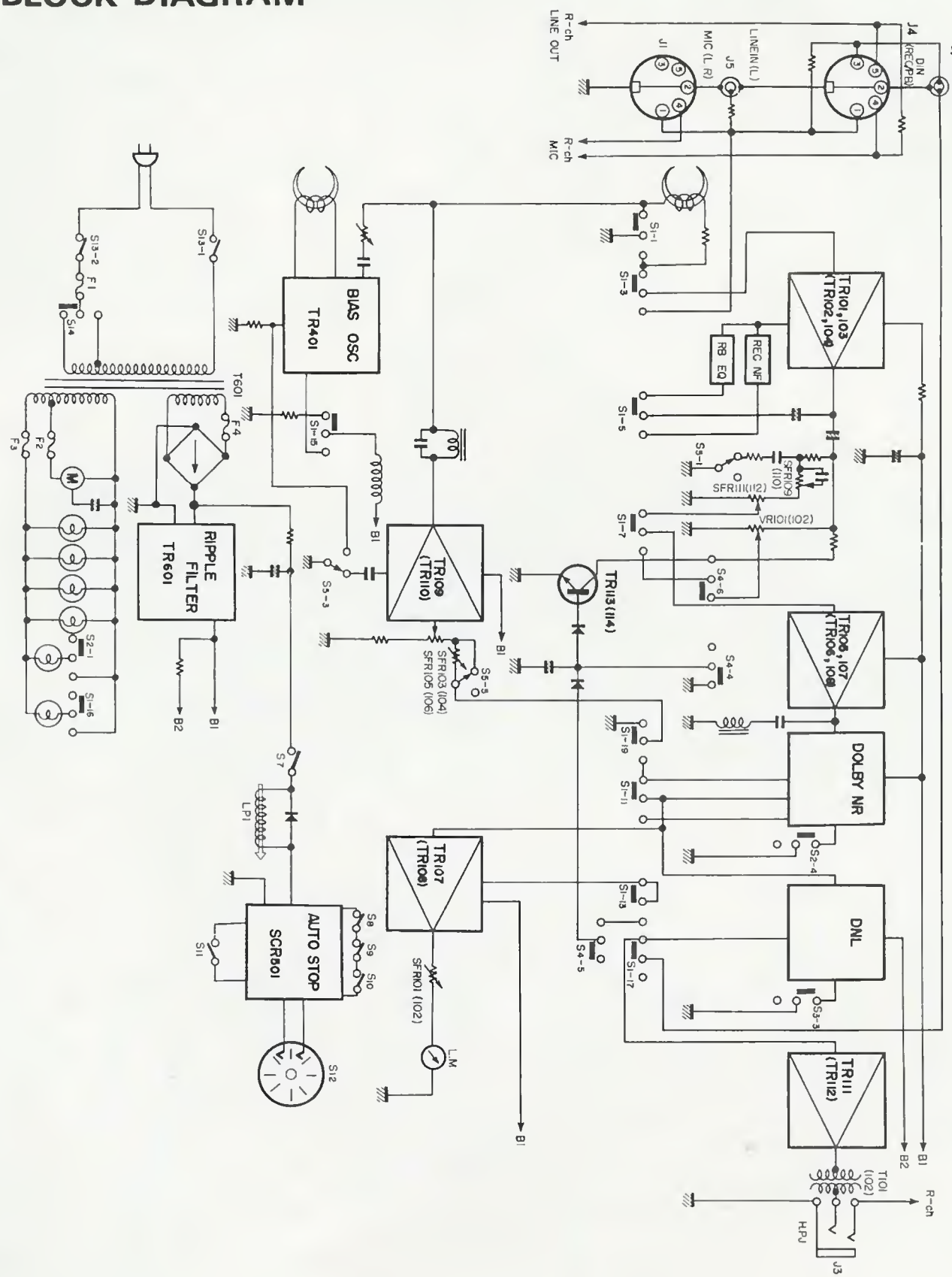
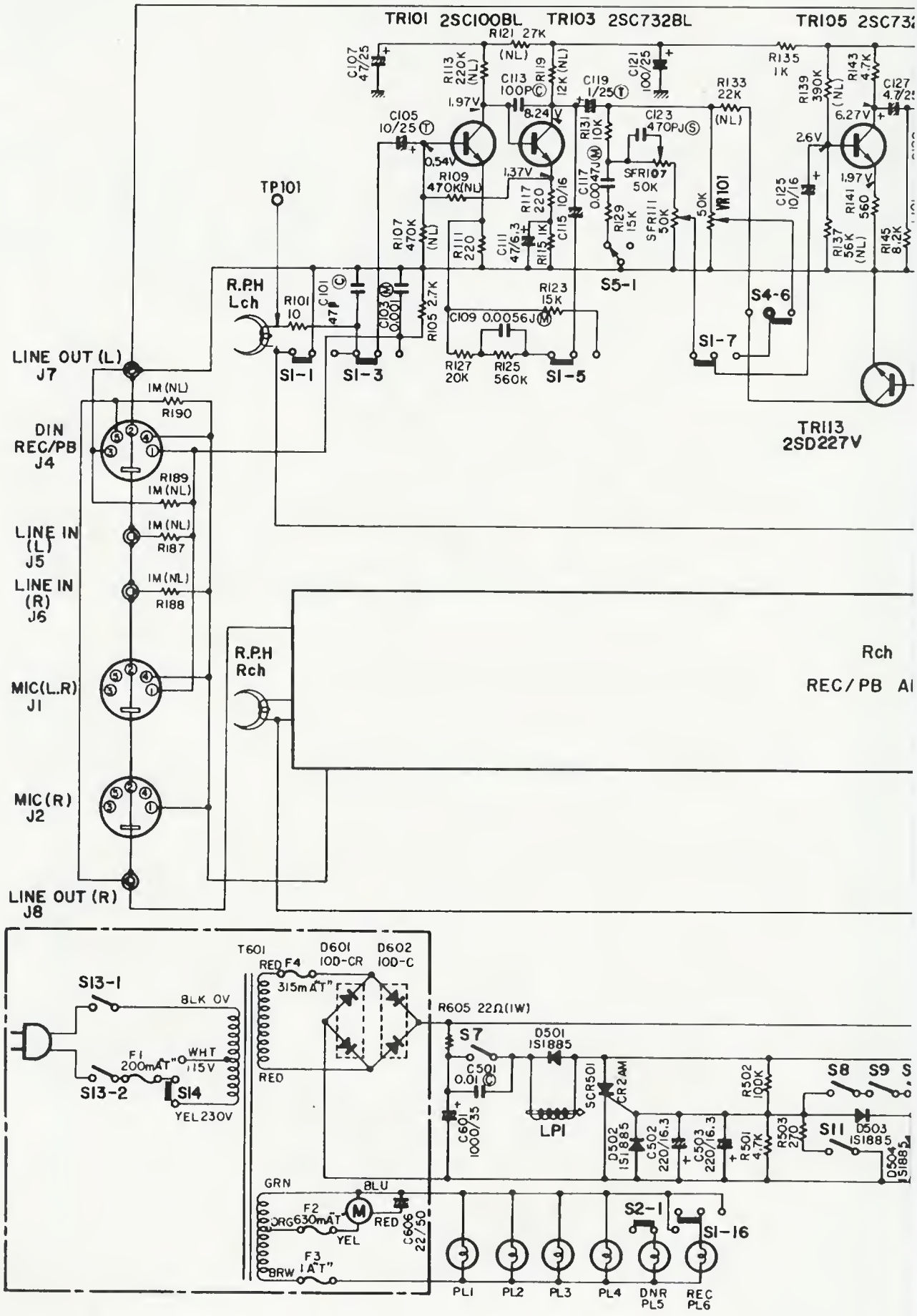
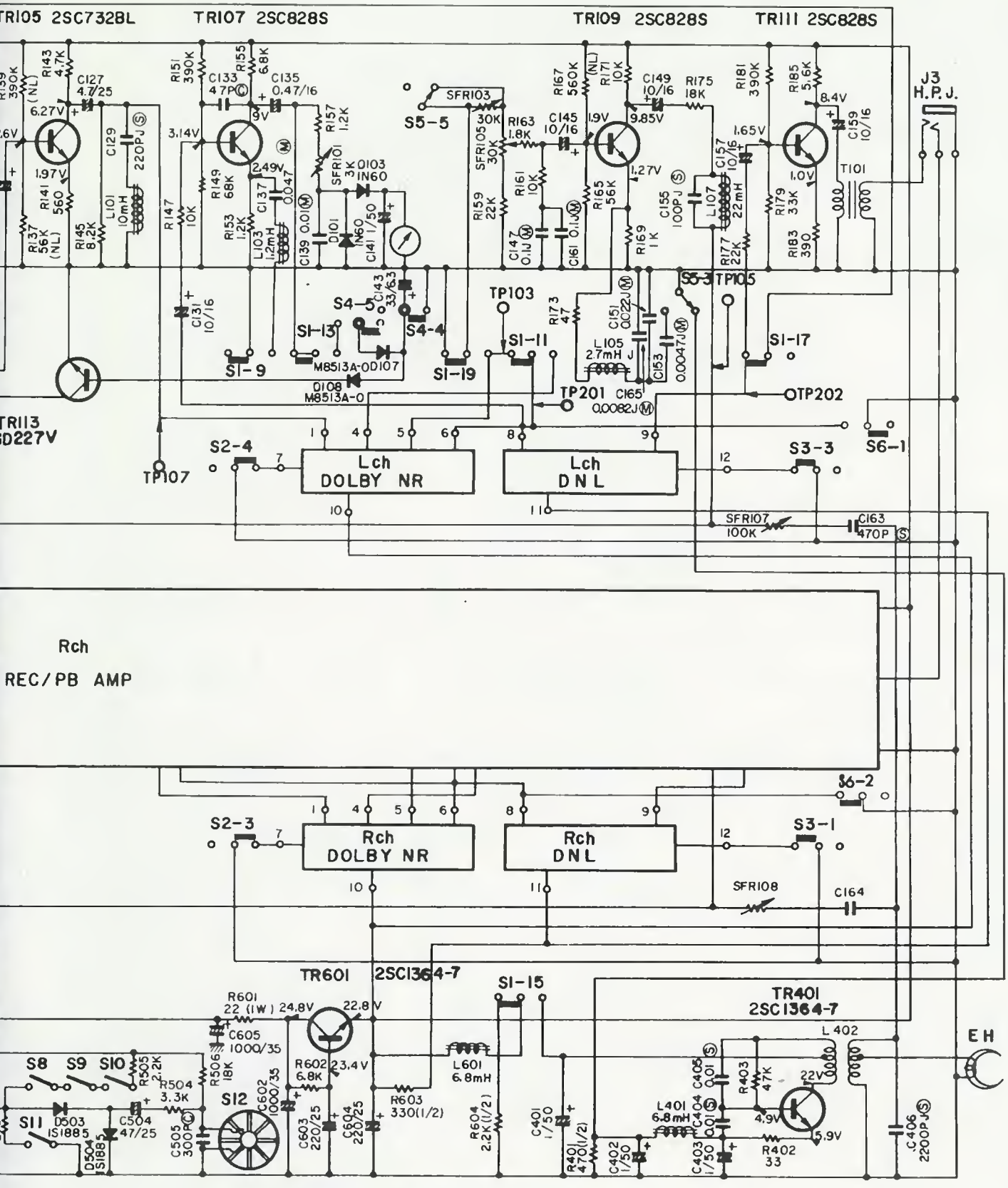

L-ch OUT PUT
R-ch OUT PUT
E
R-ch IN PUT
L-ch IN PUT
5
2
4
3
1
DIN(REC/PB)
V.T.V.M
OSCILLO SCOPE
SIG GEN
OUT
IN
TEST POINT
E
600Ω
ATT
TEST POINT
E

Fig.13

BLOCK DIAGRAM




TR101 2SC100BL
TR103 2SC732BL
TR105 2SC73
TR113 2SD227V
TP101
R.P.H Lch
R.P.H Rch
LINE OUT (L) J7
DIN REC/PB J4
LINE IN (L) J5
LINE IN (R) J6
MIC(L.R) J1
MIC(R) J2
LINE OUT (R) J8
S1-1
S1-3
S1-5
S1-7
S4-6
S5-1
VR101
SFR107 50K
SFR111 50K
R121 27K (NL)
R123 15K
R125 560K
R127 20K
R129 15K
R131 10K
R133 22K (NL)
R135 1K
R137 56K (NL)
R139 390K (NL)
R141 560
R143 4.7K
R145 8.2K
C105 10/25
C107 47/25
C109 0.0056J
C111 47/6.3
C113 100P
C115 10/16
C117 0.0047J
C119 1/25
C121 100/25
C123 470PJ
C125 10/16
C127 4.7/25
1.97V
8.24V
0.54V
1.37V
2.6V
6.27V
1.97V
Rch REC/PB AI
T601
D601 100-CR
D602 100-C
F4 315mA"
SI3-1
SI3-2
SI4
F1 200mA"
BLK 0V
WHT 115V
YEL 230V
RED
R605 22Ω(1W)
S7
D501 1S1885
C501 0.01
SCR501 CR2AM
LPI
C601 1000/35
D502 1S1885
C502 220/16.3
C503 220/16.3
R501 4.7K
R502 100K
R503 270
S8
S9
S11
D503 1S1885
D504 1S1885
GRN
BLU
F2 630mA"
ORG
YEL
RED
C606 22/50
F3 1A"
BRW
S2-1
SI-16
PL1
PL2
PL3
PL4
DNR PL5
REC PL6



Ⓣ TANTALM Ⓐ ALUMINUM SOLID

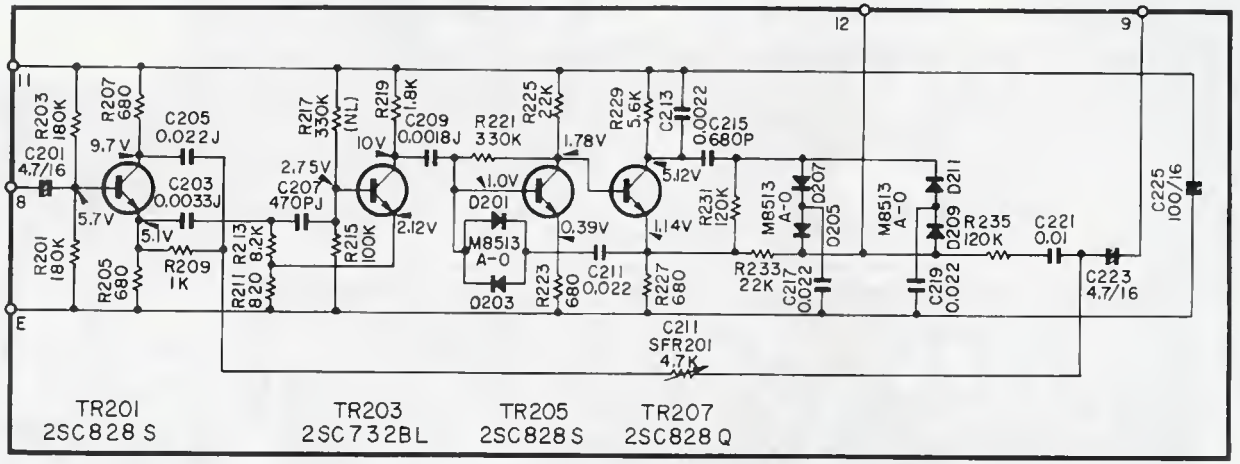
Ⓢ STYROL (NL) NOISELESS RESISTOR

Ⓒ CERAMIC

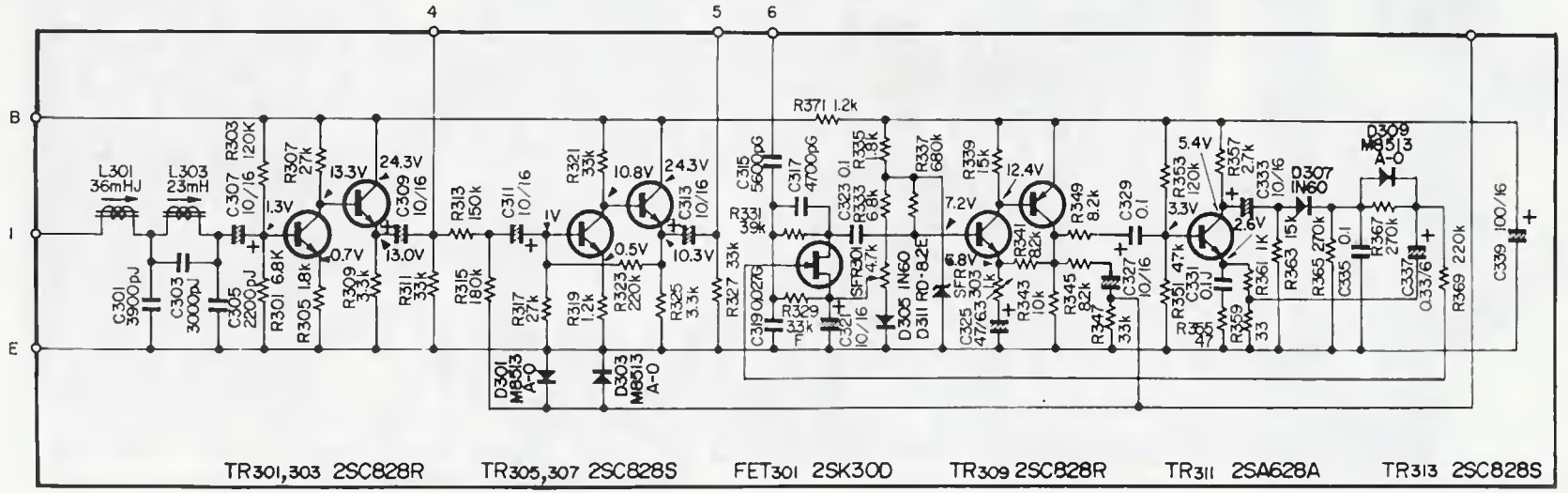
Ⓜ MYLAR

SCHEMATIC DIAGRAM

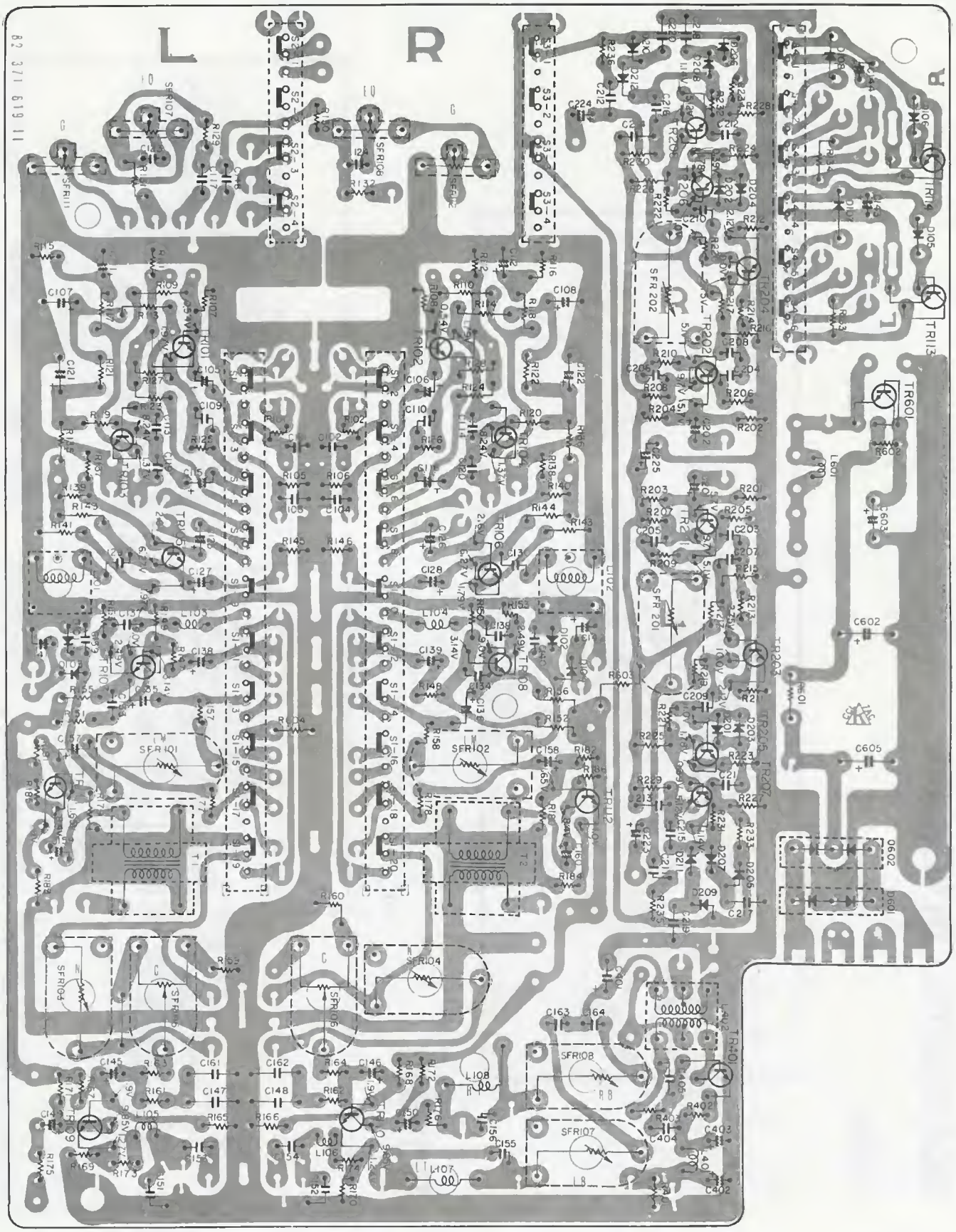
DNL



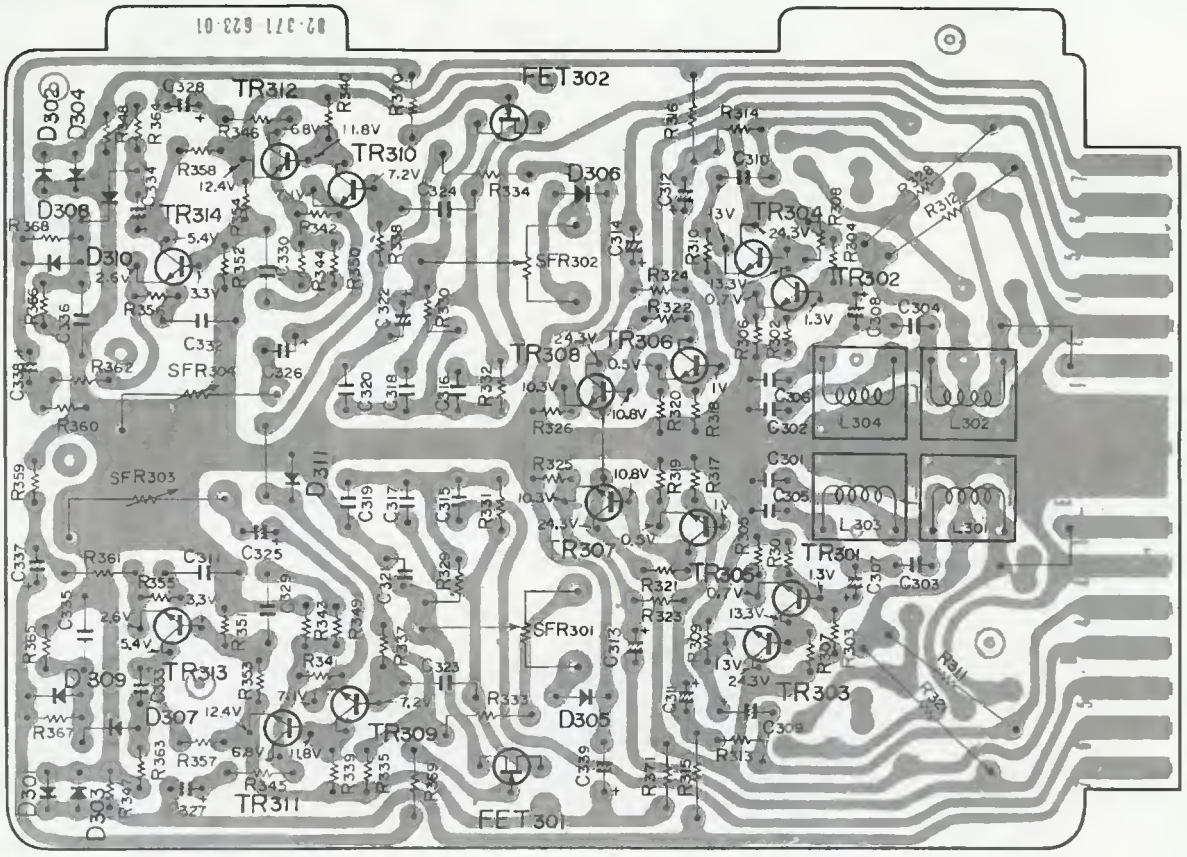
DOLBY



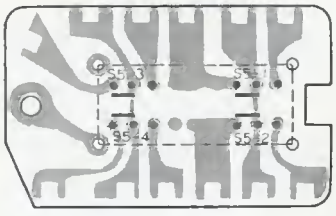
MAIN CIRCUIT BOARD



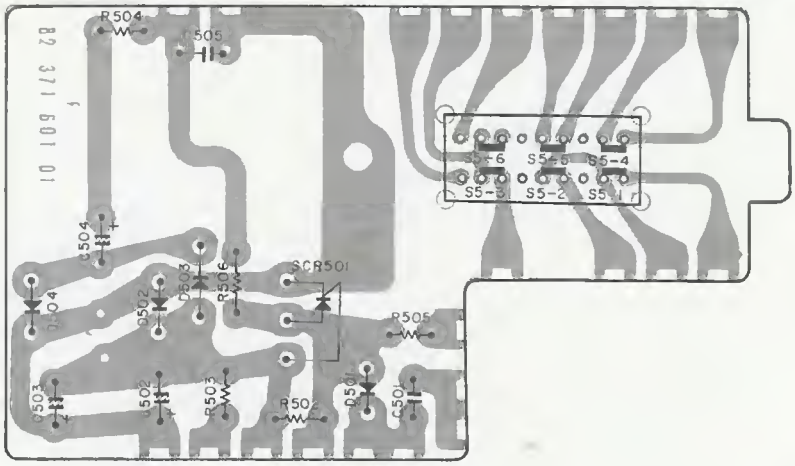
DOLBY CIRCUIT BOARD

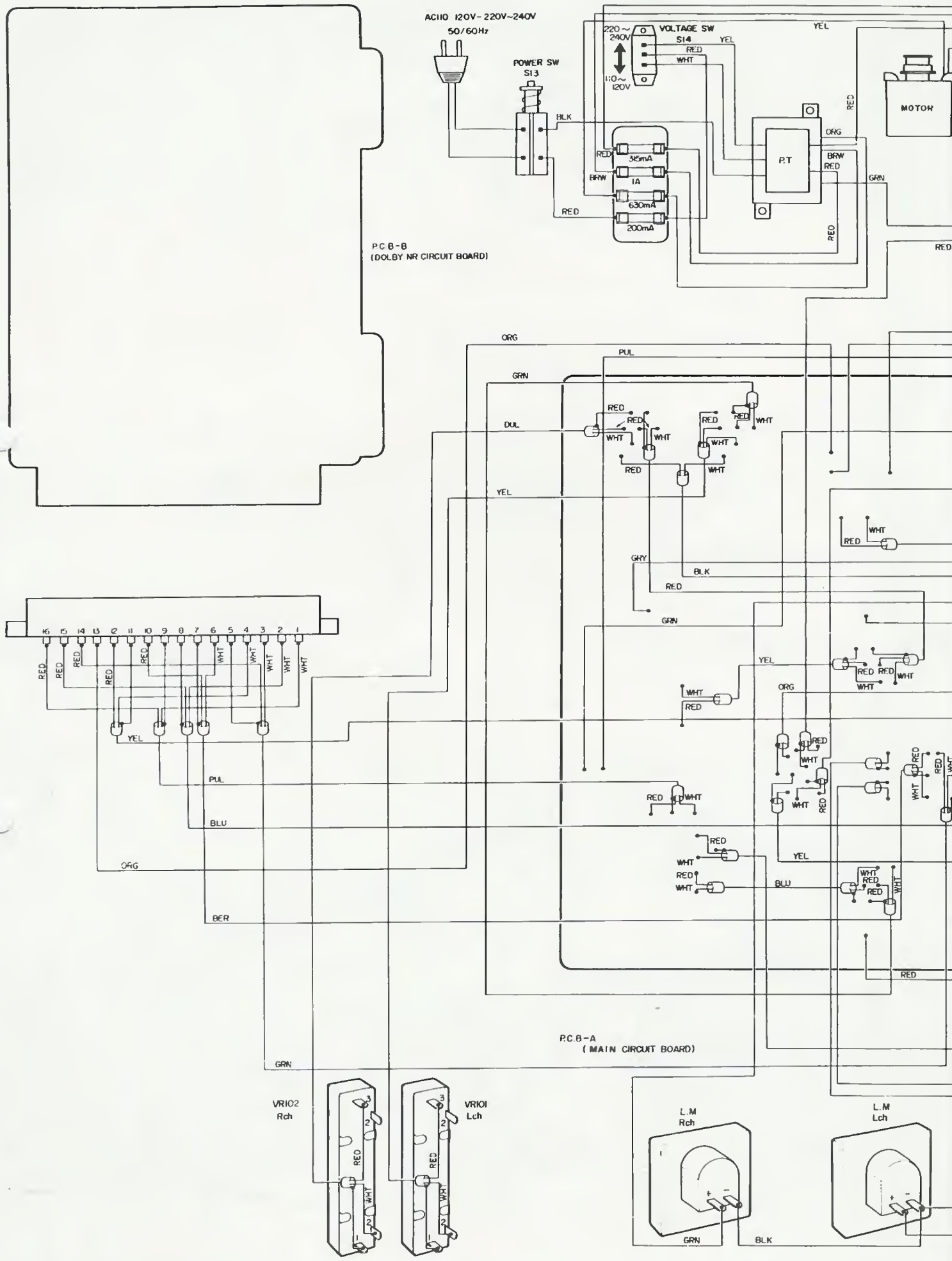


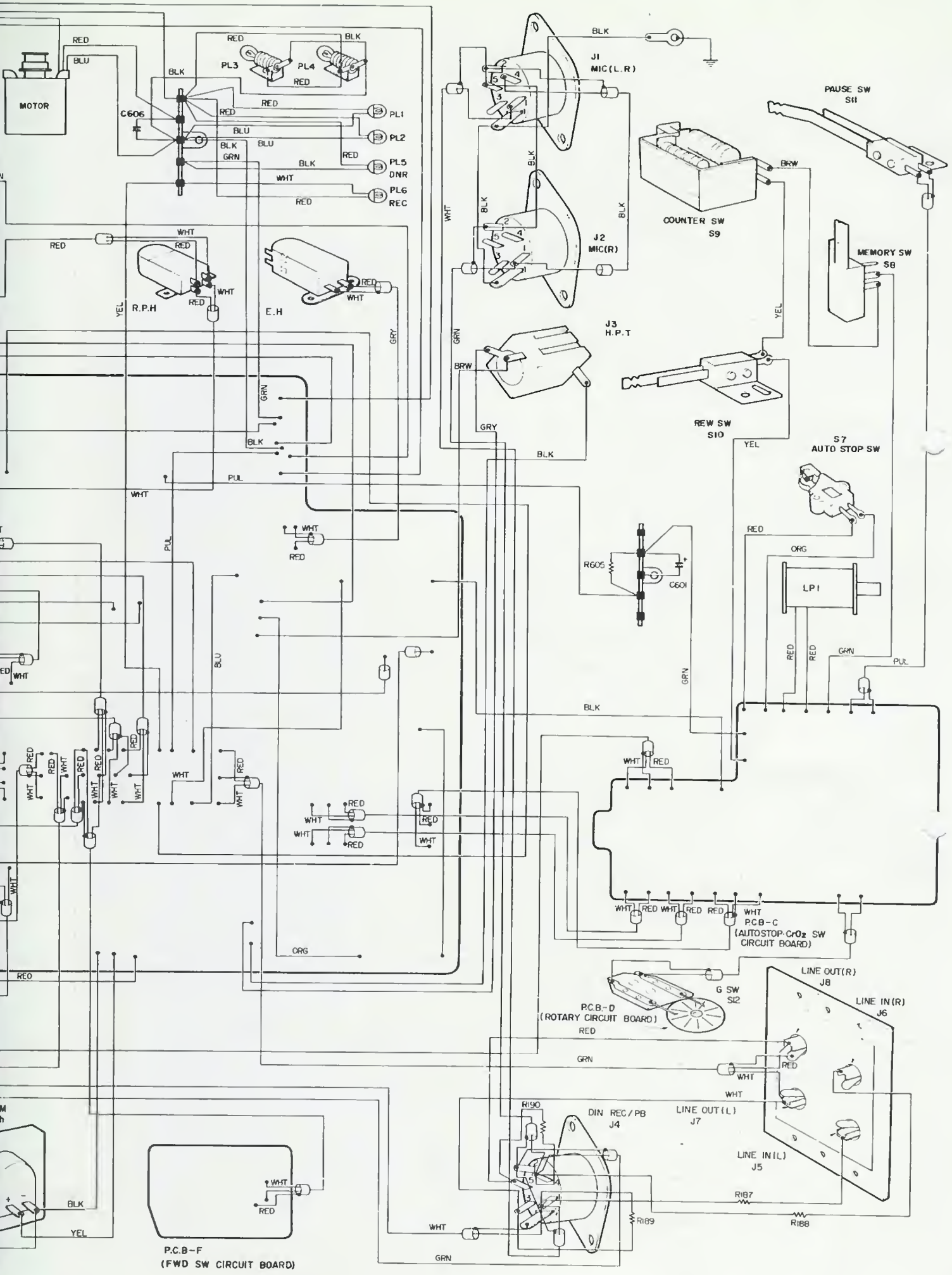
FWD SWITCH CIRCUIT BOARD

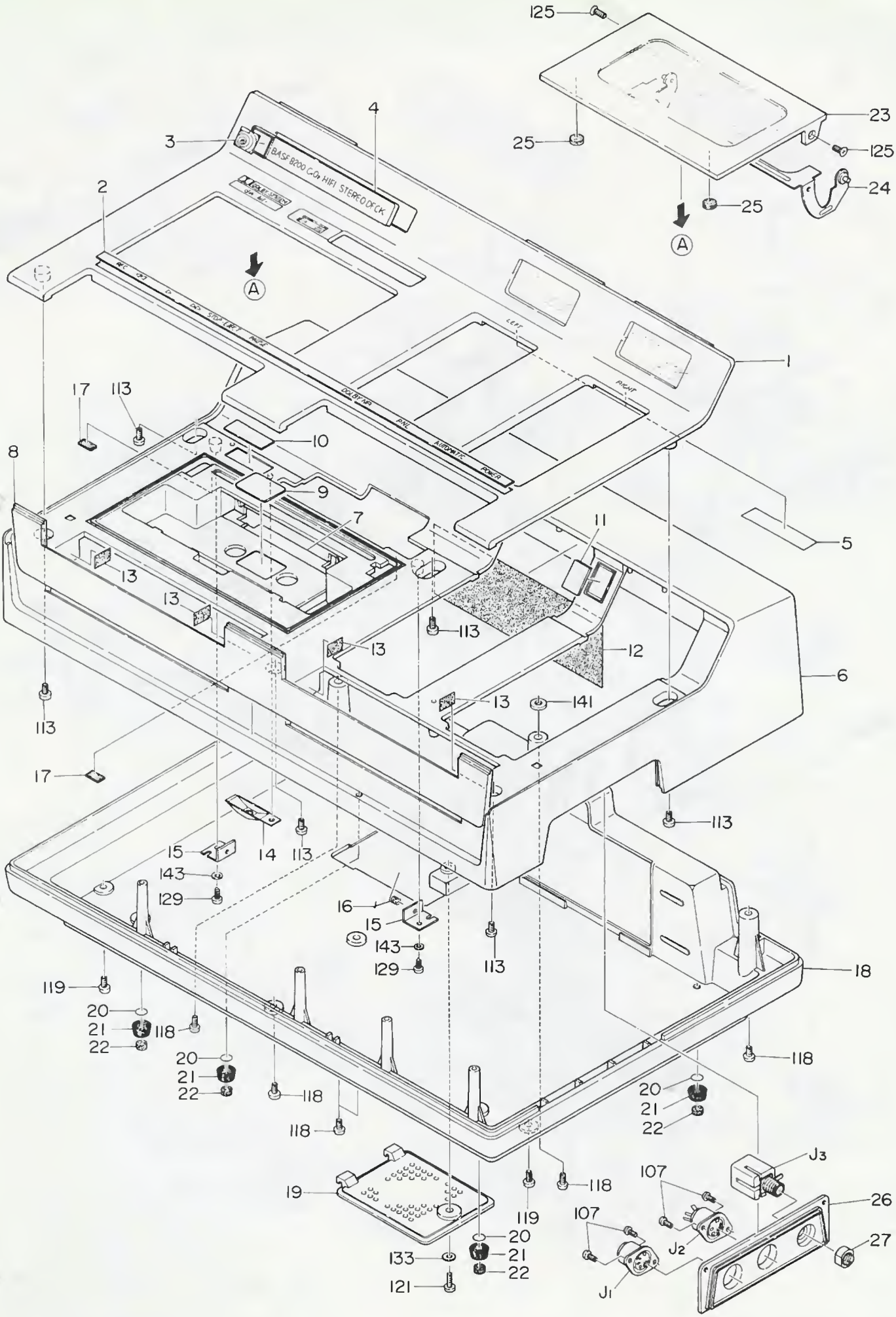


AUTO STOP/CrO2 SELECTOR SWITCH CIRCUIT BOARD

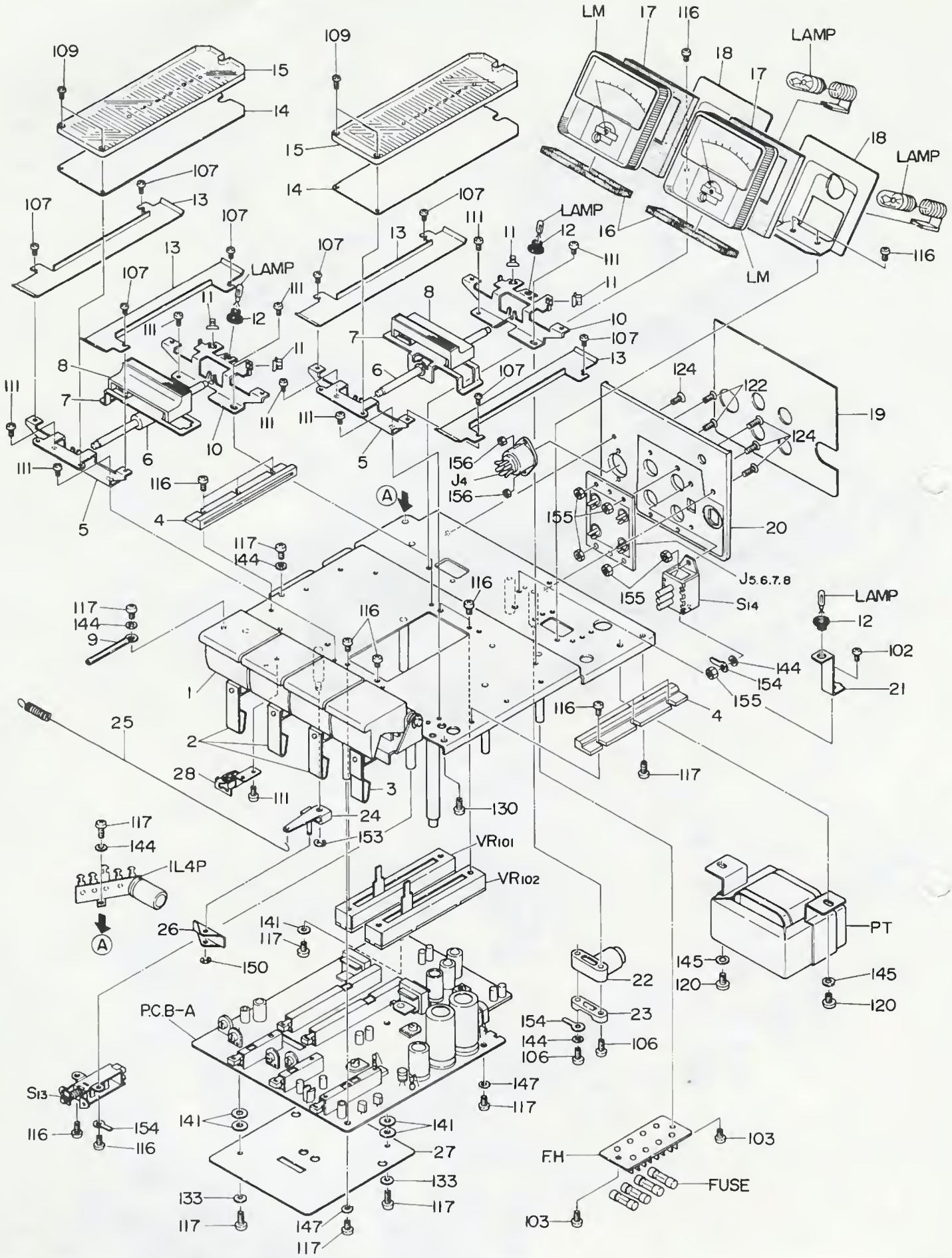



AC110 120V-220V-240V
50/60Hz
POWER SW
S13
VOLTAGE SW
S14
220~240V
110~120V
MOTOR
P.T
315mA
1A
630mA
200mA
P.C.B-B
(DOLBY NR CIRCUIT BOARD)
P.C.B-A
(MAIN CIRCUIT BOARD)
VR102
Rch
VR101
Lch
L.M
Rch
L.M
Lch
RED
WHT
BLK
YEL
ORG
GRN
BLU
PUL
GRY
BRW
BER

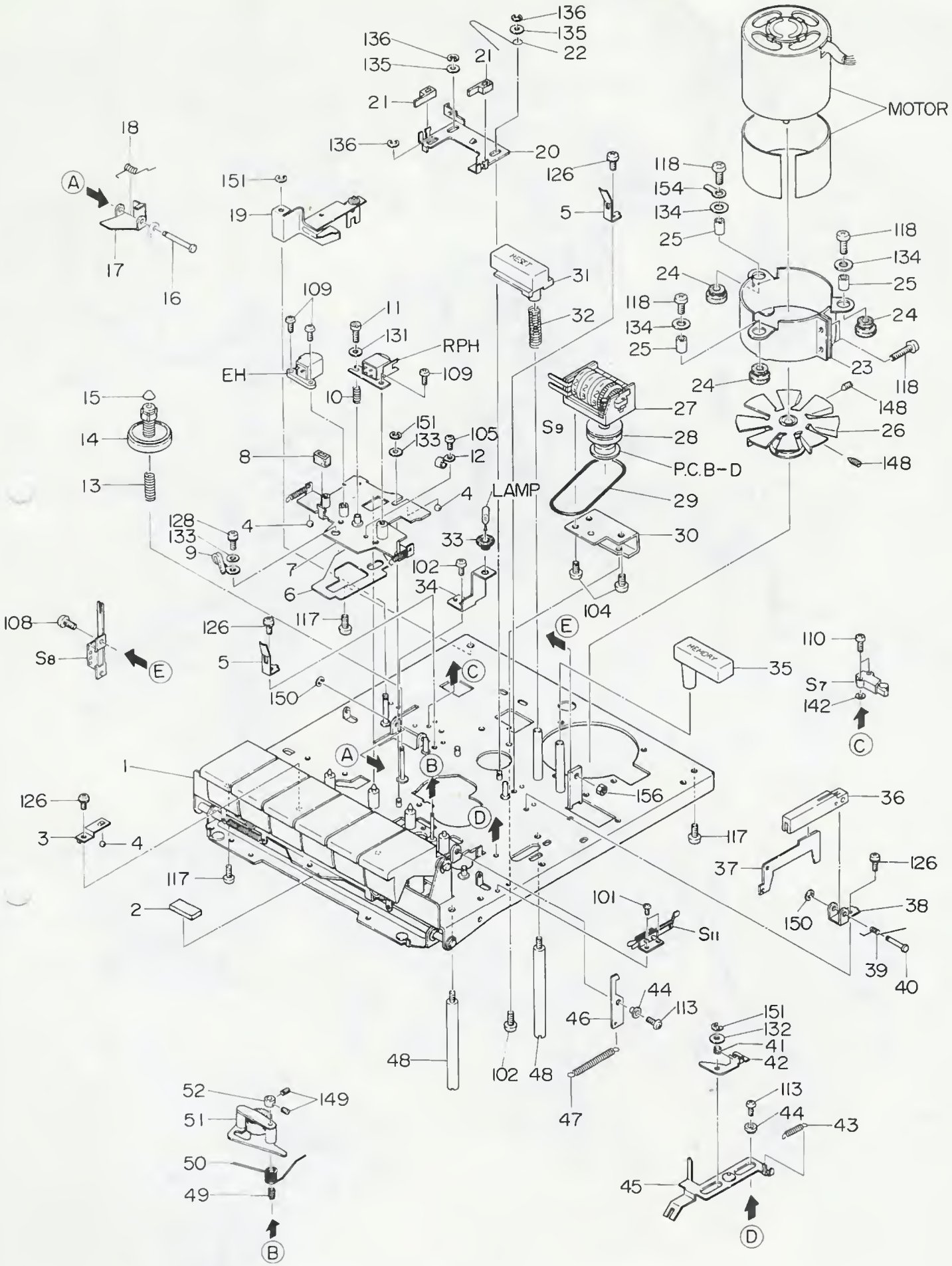

MOTOR
C606
PL1
PL2
PL3
PL4
PL5
DNR
PL6
REC
R.P.H
E.H
J1
MIC(L.R)
J2
MIC(R)
J3
H.P.T
PAUSE SW
S11
COUNTER SW
S9
MEMORY SW
S8
REW SW
S10
S7
AUTO STOP SW
R605
C601
LP1
P.C.B-C
(AUTOSTOP·CrO2 SW
CIRCUIT BOARD)
G SW
S12
P.C.B-D
(ROTARY CIRCUIT BOARD)
LINE OUT(R)
J8
LINE IN(R)
J6
LINE OUT(L)
J7
LINE IN(L)
J5
DIN REC/PB
J4
R190
R187
R188
R189
P.C.B-F
(FWD SW CIRCUIT BOARD)



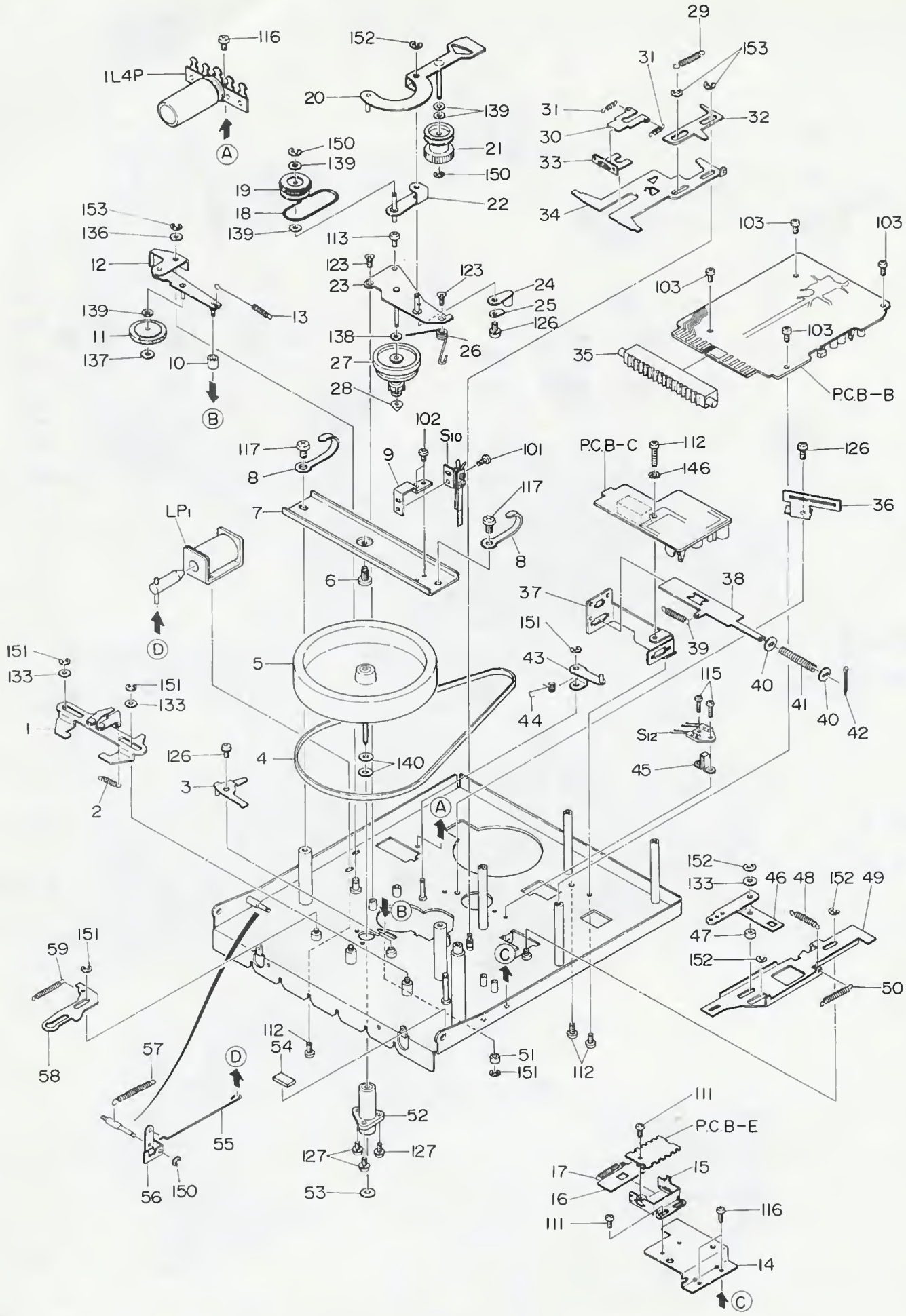
Exploded View 1



Exploded View 2



Exploded View 3



Exploded View 4

HARDWARE NOMENCLATURE

V: Pan head screw

U: Binding head screw

Q: Flat countersunk head screw

VT$_1$: Pan head tapping screw

VWS: Pan head screw w/ spring washer and washer

SS: Setscrew

STE: E ring (washer)

W: Washer

TW: Tefron washer

WF: Fibre washer

NW: Nylon washer

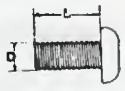
WS: Spring washer

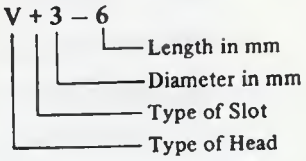
WTIE: Crown washer

N: Nut

LB: Lug terminal plate

Example:





PARTS LIST

Mechanical Parts
(Refer to EXPLODED VIEW-1)

Ref. No.	Part No.	Description	Quantity
1 - 22		Cabinet Assembly (Panel assembly + Main case assembly + Bottom cover assembly)	
1 - 5	80-013-714-41	Panel assembly	
1-1	82-371-004-11	Top panel	1
1-2	82-371-034-11	Name plate, Top panel	1
1-3	82-409-071-11	BASF badge	1
1-4	82-371-023-01	Model badge	1
1-5	82-370-033-01	Label, Reflection	2
6 - 17	80-013-711-41	Main case assembly	
1-6	82-371-001-01	Case proper assembly	1
1-7	82-371-026-01	Bottom plate, Cassette case	1
1-8	82-371-005-01	Front panel	1
1-9	82-277-024-01	Indicator sheet, Tape volume	1
1-10	82-371-021-01	Indicator plate, Dolby	1
1-11	82-371-020-01	Indicator plate, Record	1
1-12	82-371-846-01	Net, Rear	2
1-13	82-371-036-01	Label, Push	4
1-14	82-371-415-01	Lamp cover, Dolby	1
1-15	82-371-828-01	Holder, Cassette case	2
1-16	82-371-832-01	Spring, Cassette case	1
1-17	82-371-464-01	Rubber cushion A	2
18 - 22	80-013-712-41	Bottom cover assembly	
1-18	82-371-003-01	Bottom cover	1
1-19	82-371-008-01	Cover, Fan	1
1-20	82-371-039-01	Adhesive paper 14ø	4
1-21	82-371-037-01	Bushing rubber 14.5ø - 7.5	4
1-22	82-371-038-01	Felt 11ø - 4t	4
23 - 25	80-013-717-41	Cassette case lid assembly	
1-23	82-371-007-01	Cassette case lid	1
1-24	82-371-801-01	Leg assembly, Cassette case	1

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-1)

Ref. No.	Part No.	Description	Quantity
1-25	82-372-058-01	Felt 7ø - 1tB	2
1-26	82-370-008-01	Jack plate, Side	1
1-27	82-457-209-01	Collar, Headphone	1

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-2)

Ref. No.	Part No.	Description	Quantity
2-1	82-371-805-11	Sub-chassis assembly	1
2-2	82-371-433-01	Slide lever B assembly	3
2-3	82-371-814-01	Slide lever A assembly	1
2-4	82-371-827-01	Guide, Volume lever	2
2-5	82-371-826-01	Holder A, Dial scale	2
2-6	82-371-823-01	Shaft, REC. volume	2
2-7	82-371-842-01	Volume lever assembly	2
2-8	82-371-027-01	Volume knob	2
2-9	87-038-007-01	Bind metal, Wires	1
2-10	82-371-829-01	Holder B, Dial Scale	2
2-11	82-371-838-01	Stopper, Dial scale	4
2-12	82-371-831-01	Bushing, REC lamp	3
2-13	82-371-030-01	Name plate B, Dial	4
2-14	82-371-029-01	Name plate A, Dial	2
2-15	82-371-024-01	Dial scale	2
2-16	82-371-419-01	Cushion B, VU meter	2
2-17	82-371-830-01	Cushion A, VU meter	2
2-18	82-371-834-01	Holder, VU meter	2
2-19	82-371-011-01	Jack name plate, Rear	1
2-20	82-371-010-01	Jack plate, Rear	1
2-21	82-371-403-01	Metal fitting, Lamp holder	1
2-22	87-085-094-01	Holder A, AC cord	1
2-23	87-085-095-01	Holder B, AC cord	1
2-24	82-371-388-01	REC lever C assembly	1
2-25	82-371-341-21	Spring, REC	1
2-26	82-371-474-01	Pressure plate, REC switch	1
2-27	82-371-618-01	Shielding paper	1
2-28	82-371-817-01	Lock plate M assembly	4

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-3)

Ref. No.	Part No.	Description	Quantity
3-1	82-371-201-11	Main chassis assembly	1
3-2	82-372-382-01	M cushion A	1
3-3	82-371-338-01	Spring, Pressure for actuating chassis	2
3-4	82-603-340-01	Steel ball, 2mmø	5
3-5	82-371-339-01	Spring, Cassette pressure	2
3-6	82-372-416-01	Auxiliary plate, Switch	1
3-7	82-371-273-11	Actuating chassis assembly	1
3-8	82-371-346-01	Rubber cushion	1
3-9	87-038-007-01	Bind metal, Wires	1
3-10	82-371-456-01	Spring, Head adjuster	1
3-11	87-081-293-01	Screw, Head adjuster	1
3-12	82-365-280-01	Supporter, Wires	1
3-13	82-371-462-01	Spring, Back tension	1
3-14	82-371-445-31	Rewind reel platform assembly	1
3-15	82-363-265-01	Cap, Take-up reel platform	1
3-16	82-371-349-01	Shaft, Safety lever	1
3-17	82-371-323-01	Record safety lever	1
3-18	82-371-356-01	Spring, Safety inter-lock lever	1
3-19	82-372-315-31	Tape selector lever	1
3-20	82-371-325-21	Brake plate	1
3-21	82-372-408-01	Brake shoe	2
3-22	82-371-368-11	Spring, Brake	1
3-23	82-371-315-11	Mounting band Motor	1
3-24	82-371-317-01	Cushion A	3
3-25	82-371-318-11	Collar A, Motor	3
3-26	82-371-263-41	Motor pulley B assembly	1
3-27	87-040-067-01	Counter	1
3-28	82-371-402-11	Counter pulley	1
3-29	82-371-344-01	Counter belt	1
3-30	82-371-337-01	Mounting base, Counter	1
3-31	82-371-015-01	Reset button	1
3-32	82-371-417-01	Spring, Reset button	1
3-33	82-371-832-01	Bushing, Lamp	1
3-34	82-371-461-01	Metal, Dolby lamp	1
3-35	82-371-033-01	Memory button assembly	1
3-36	82-371-025-01	Cassette eject lever	1
3-37	82-371-335-01	Bar, Cassette-up	1

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-3)

Ref. No.	Part No.	Description	Quantity
3-38	82-371-336-01	Supporter plate, Cassette-up lever	1
3-39	82-371-355-01	Spring, Eject lever	1
3-40	82-371-350-01	Rotary shaft, Cassette-up lever	1
3-41	82-458-231-01	Spring, Lock plate	1
3-42	82-370-262-31	Lock plate	1
3-43	82-371-374-01	Spring, Pause lever	1
3-44	82-371-455-01	Collar, Cassette case lock lever	2
3-45	82-371-307-11	Pause lever assembly	1
3-46	82-371-334-01	Lock lever, Cassette case	1
3-47	82-371-373-01	Spring, Swing lever	1
3-48	82-371-809-01	Supporter B, Bottom cover	2
3-49	82-372-334-01	Spring B, Pinch roller	1
3-50	82-371-358-31	Spring, Pinch lever	1
3-51	82-371-265-11	Pinch lever assembly	1
3-52	82-372-336-01	Collar, Pinch lever	1

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-4)

Ref. No.	Part No.	Description	Quantity
4-1	82-371-299-11	FR slide plate assembly	1
4-2	82-371-367-11	Spring, FR lever	1
4-3	82-371-428-01	Review lever assembly	1
4-4	82-371-342-01	Main belt	1
4-5	82-371-243-01	Flywheel assembly	1
4-6	82-331-107-01	Screw, Thrust	1
4-7	82-371-324-11	Bearing plate, Flywheel	1
4-8	87-038-007-01	Bind metal, Wires	2
4-9	82-371-381-01	Mounting metal, Leaf switch	1
4-10	82-371-469-01	Collar, C, Idler	1
4-11	82-416-282-21	Play idler assembly	1
4-12	82-371-294-21	Idler arm assembly	1
4-13	82-371-360-11	Spring, Play idler	1
4-14	82-372-415-01	Holder A, Switch	1
4-15	82-374-248-01	Holder C, Switch	1
4-16	82-374-249-01	Auxiliary plate B, Switch	1
4-17	82-372-417-01	Spring B, Switch return	1
4-18	82-371-343-01	FR belt	1
4-19	82-371-247-01	Fast roller assembly	1
4-20	82-371-289-11	FR lever assembly	1
4-21	82-371-256-31	FR pulley assembly	1
4-22	82-371-284-01	Fast lever assembly	1
4-23	82-371-280-01	Base assembly, Reel platform	1
4-24	82-371-250-11	Rewind lever assembly	1
4-25	82-372-397-01	Holder, Rewind roller	1
4-26	82-371-357-01	Spring, Fast roller	1
4-27	82-372-345-61	Take-up reel platform assembly	1
4-28	82-363-265-01	Cap, Take-up reel platform	1
4-29	82-371-364-01	Spring, Brake for actuating plate A	1
4-30	82-371-319-11	Pressure plate	1
4-31	82-371-362-01	Spring, Pressure for actuating chassis	2
4-32	82-371-321-11	Actuating plate B, Brake	1
4-33	82-371-277-01	Coupling plate assembly, Actuating chassis	1
4-34	82-371-320-31	Actuating plate A, Brake	1
4-35	82-371-646-01	Multi connector, 16P	1
4-36	82-371-332-11	Guide plate	1
4-37	82-372-316-01	Holder, Selector switch	1

Mechanical Parts (Cont'd)
(Refer to EXPLODED VIEW-4)

Ref. No.	Part No.	Description	Quantity
4-38	82-372-320-01	Auxiliary plate, Switch	1
4-39	82-371-475-01	Spring, Switch return	1
4-40	82-372-323-01	Washer, Selector spring	2
4-41	82-372-318-01	Spring, Selector switch	1
4-42	82-372-321-01	Split pin	1
4-43	82-371-309-01	Center shifter assembly	1
4-44	82-371-359-01	Spring, Center shift	1
4-45	82-372-316-01	Holder, Selector switch & G switch	1
4-46	82-371-327-11	REC lever B	1
4-47	82-371-384-01	Collar	1
4-48	82-371-414-11	Spring, REC releasing	1
4-49	82-371-326-11	REC lever A	1
4-50	82-371-369-01	Spring, REC lever A	1
4-51	82-371-449-11	Collar, Idler lever	1
4-52	82-371-271-11	Shaft bearing assembly, Flywheel	1
4-53	82-416-358-01	Washer, Oil protected	1
4-54	82-372-382-01	M cushion A	1
4-55	82-371-467-01	Coupling wire	1
4-56	82-371-333-11	Lever, Solenoid	1
4-57	82-372-308-01	Spring, Tension	1
4-58	82-371-329-01	Swing plate	1
4-59	82-371-373-01	Spring, Swing lever	1

Screws & Washers

Ref. No.	Part No.	Description	Quantity
101	87-263-033-01	V+ 2-4S	3
102	87-263-070-01	V+ 2.6-3S	6
103	87-263-072-01	V+ 2.6-5S	6
104	87-263-092-11	V+ 3-4S	2
105	87-263-031-01	V+ 2-2S	1
106	87-263-101-11	V+ 3-18S	2
107	87-253-032-01	U+ 2-3S	12
108	87-253-033-01	U+ 2-4S	1
109	87-253-035-01	U+ 2-6S	7
110	87-253-036-01	U+ 2-8S	2
111	87-253-070-01	U+ 2.6-3S	15
112	87-253-071-01	U+ 2.6-4S	5
113	87-253-072-01	U+ 2.6-5S	8
114	87-253-073-01	U+ 2.6-6S	1
115	87-253-038-01	U+ 2-12S	2
116	87-253-092-11	U+ 3-4S	19
117	87-253-094-11	U+ 3-6S	14
118	87-253-096-11	U+ 3-10S	10
119	87-253-095-11	U+ 3-8	2
120	87-253-169-11	U+ 4-6	2
121	87-253-097-11	U+ 3-12S	1
122	87-233-035-01	Q+ 2-6S	2
123	87-233-071-01	Q+ 2.6-4S	2
124	87-233-095-11	Q+ 3-8S	8
125	87-239-071-01	Q+ 2.6-4S (Black chrome plated)	2
126	87-483-071-01	VWS+ 2.6-4	8
127	87-483-072-01	VWS+ 2.6-5	3
128	87-483-093-11	VWS+ 3-5	1
129	87-351-074-01	VT_1+ 2.6-8	2
130	87-351-094-01	VT_1+ 3-6S	1
131	87-410-305-01	W-2mmø diam.	1
132	87-410-311-01	W-2.6mmø diam.	2
133	87-410-314-01	W-3mmø diam.	8

Screws & Washers (Cont'd)

Ref. No.	Part No.	Description	Quantity
134	87-410-317-01	W-3mmø diam.	3
135	87-410-313-01	W-3mmø diam.	2
136	82-283-323-01	W-5mmø diam.	1
137	87-081-209-01	TW-2mmø diam.	1
138	87-081-249-01	TW-1.5mmø diam.	1
139	87-081-036-01	TW-2mmø diam.	5
140	87-082-005-01	NW-2.5mmø diam.	2
141	87-081-016-01	FW-3mmø diam.	6
142	87-081-025-01	FW-2.6mmø diam.	2
143	87-421-305-01	WS-2.6mmø diam.	2
144	87-421-306-01	WS-3mmø diam.	5
145	87-421-308-11	WS-4mmø diam.	2
146	87-433-903-01	WTIE-2.6mmø diam.	1
147	87-433-904-01	WTIE-3mmø diam.	2
148	87-373-033-01	SS 2-4S	2
149	87-373-022-01	SS 1.7-3S	2
150	87-441-003-01	STE-1.5mmø diam.	6
151	87-441-005-01	STE-2mmø diam.	7
152	87-441-008-01	STE-2.5mmø diam.	8
153	87-441-009-01	STE-3mmø diam.	4
154	87-450-414-01	LB -4mm	4
155	87-391-118-01	N - 3mm	6
156	87-391-006-01	N - 2mm	3

Electrical Parts

Symbol No.	Part No.	Description	Quantity
"MAIN CIRCUIT BOARD ASSEMBLY"			
PCB-A	82-371-619-11	Printed circuit board	1
'REC/PB Section'			
Tr 101, 102	89-310-006-01	Transistor, 2SC-1000BL	2
Tr 103, 104, 105, 106	89-307-326-01	Transistor, 2SC-732BL	4
Tr 107, 108, 109, 110, 111, 112	89-308-285-01	Transistor, 2SC-828S	6
Tr 113, 114	89-402-275-01	Transistor, 2SD-227V	2
D 101, 102, 103, 104	88-051-060-01	Diode, 1N-60	4
D 105, 106, 107, 108	87-026-066-01	Diode, M-8513A-0	4
L 101, 102	82-938-640-01	Coil, 10 mH	2
L 103, 104	87-005-072-01	Micro inductor, 1.2 mH	2
L 105, 106	87-005-090-01	Micro inductor, 2.7 mH	2
L 107, 108	82-371-644-01	Coil, 22 mH	2
T 101, 102	82-371-634-01	Matching transformer	2
S 1	82-371-620-01	Slide switch (REC/PB)	2
S 2, 3	82-370-609-01	Slide switch (Dolby NR switch/DNL switch)	2
S 4	82-958-605-01	Slide switch (A) (ALC switch)	1
SFR 101, 102	87-021-385-01	Semi-fixed resistor, 3 kΩ	2
SFR 103, 104, 105, 106	87-021-415-01	Semi-fixed resistor, 30 kΩ	4
SFR 107, 108	87-021-388-01	Semi-fixed resistor, 100 kΩ	2
SFR 109, 110, 111, 112	87-021-389-01	Semi-fixed resistor, 50 kΩ	4
		(Resistors)	
R 101, 102	88-181-100-01	10Ω, ¼W ± 5% ELR	2
R 173, 174	88-181-470-01	47Ω, ¼W ± 5% ELR	2
R 111, 112, 117, 118	88-181-221-01	220Ω, ¼W ± 5% ELR	4
R 183, 184	88-181-391-01	390Ω, ¼W ± 5% ELR	2
R 141, 142	88-181-561-01	560Ω, ¼W ± 5% ELR	2
R115, 116, 135, 136 169, 170	88-181-102-01	1 kΩ, ¼W ± 5% ELR	6

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description		Quantity
R 153, 154, 157, 158	88-181-122-01	1.2 kΩ, ¼W ± 5%	ELR	4
R 163, 164	88-181-182-01	1.8 kΩ, ¼W ± 5%	ELR	2
R 105, 106	88-181-272-01	2.7 kΩ, ¼W ± 5%	ELR	2
R 143, 144	88-181-472-01	4.7 kΩ, ¼W ± 5%	ELR	2
R 185, 186	88-181-562-01	5.6 kΩ, ¼W ± 5%	ELR	2
R 155, 156	88-181-682-01	6.8 kΩ, ¼W ± 5%	ELR	2
R 145, 146	88-181-822-01	8.2 kΩ, ¼W ± 5%	ELR	2
R 131, 132, 147, 148, 161, 162, 171, 172	88-181-103-01	10 kΩ, ¼W ± 5%	ELR	8
R 123, 124, 129, 130	88-181-153-01	15 kΩ, ¼W ± 5%	ELR	4
R 175, 176	88-181-183-01	18 kΩ, ¼W ± 5%	ELR	2
R 127, 128	88-181-203-01	20 kΩ, ¼W ± 5%	ELR	2
R 159, 160, 177, 178	88-181-223-01	22 kΩ, ¼W ± 5%	ELR	4
R 179, 180	88-181-333-01	33 kΩ, ¼W ± 5%	ELR	2
R 165, 166	88-181-563-01	56 kΩ, ¼W ± 5%	ELR	2
R 149, 150	88-181-683-01	68 kΩ, ¼W ± 5%	ELR	2
R 151, 152, 181, 182	88-181-394-01	390 kΩ, ¼W ± 5%	ELR	4
R 125, 126	88-181-564-01	560 kΩ, ¼W ± 5%	ELR	2
R 119, 120	88-183-123-11	12 kΩ, ¼W ± 5%		2
R 133, 134	88-183-223-11	22 kΩ, ¼W ± 5%		2
R 121, 122	88-183-273-11	27 kΩ, ¼W ± 5%		2
R 137, 138	88-183-563-11	56 kΩ, ¼W ± 5%		2
R 113, 114	88-183-224-11	220 kΩ, ¼W ± 5%		2
R 139, 140	88-183-394-11	390 kΩ, ¼W ± 5%		2
R 107, 108, 109, 110	88-183-474-11	470 kΩ, ¼W ± 5%		4
R 167, 168	88-183-564-11	560 kΩ, ¼W ± 5%		2
		(Capacitors)		
C 141, 142	88-337-104-01	1 µF, 50 V	Electrolytic	2
C 127, 128	88-336-504-01	4.7 µF, 25 V	Electrolytic	2

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
C 107, 108	88-336-514-01	47 µF, 25 V Electrolytic	2
C 121, 122	88-336-124-01	100 µF, 25 V Electrolytic	2
C 115, 116, 125, 126, 131, 132, 145, 146, 149, 150, 157, 158, 159, 160	88-335-114-01	10 µF, 16 V Electrolytic	14
C 135, 136	88-335-594-01	0.47 µF, 16 V Electrolytic	2
C 143, 144	88-332-314-01	33 µF, 6.3V Electrolytic	2
C 111, 112	88-332-514-01	47 µF, 6.3 V Electrolytic	2
C 119, 120	87-015-209-01	1 µF, 25 V Tantalum	2
C 105, 106	87-015-215-01	10 µF, 25 V Tantalum	2
C 129, 130	88-507-480-01	220 pF, Styrol	2
C 123, 124	88-507-550-01	470 pF, Styrol	2
C 163, 164	88-568-550-01	470 pF, Styrol	2
C 155, 156	87-919-410-01	100 pF, Dipped mica	2
C 147, 148, 161, 162	88-707-910-01	0.1 µF, Mylar	4
C 151, 152	88-707-790-01	0.02 µF, Mylar	2
C 137, 138	88-707-850-01	0.047 µF, Mylar	2
C 117, 118, 153, 154	88-707-720-01	0.0047 µF, Mylar	4
C 109, 110	88-707-730-01	0.0056 µF, Mylar	2
C 165, 166	88-707-750-01	0.0082 µF, Mylar	2
C 139, 140	88-717-810-01	0.01 µF, Mylar	2
C 103, 104	88-717-610-01	0.001 µF, Mylar	2
C 101, 102, 133, 134	88-217-290-01	47 pF, Ceramic	4
'DNL Section'			
Tr 201, 202, 205, 206	89-308-285-01	Transistor, 2SC-828S	4
Tr 203, 204	89-307-326-01	Transistor, 2SC-732BL	2
Tr 207, 208	89-308-289-01	Transistor, 2SC-828Q	2

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
D 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212	87-026-066-01	Diode, M-8513A-0	12
SFR 201, 202	87-021-383-01	Semi-fixed resistor, 4.7 kΩ	2
		(Resistors)	
R 205, 206, 207, 208, 223, 224, 227, 228	88-181-681-01	680Ω, ¼W ± 5% ELR	8
R 211, 212	88-181-821-01	820Ω, ¼W ± 5% ELR	2
R 209, 210	88-181-102-01	1 kΩ, ¼W ± 5% ELR	2
R 219, 220	88-181-182-01	1.8 kΩ, ¼W ± 5% ELR	2
R 229, 230	88-181-562-01	5.6 kΩ, ¼W ± 5% ELR	2
R 213, 214	88-181-822-01	8.2 kΩ, ¼W ± 5% ELR	2
R 225, 226, 233, 234	88-181-223-01	22 kΩ, ¼W ± 5% ELR	4
R 215, 216	88-181-104-01	100 kΩ, ¼W ± 5% ELR	2
R 231, 232, 235, 236	88-181-124-01	120 kΩ, ¼W ± 5% ELR	4
R 201, 202, 203, 204	88-181-184-01	180 kΩ, ¼W ± 5% ELR	4
R 221, 222	88-181-334-01	330 kΩ, ¼W ± 5% ELR	2
R 217, 218	88-183-334-11	330 kΩ, ¼W ± 5%	2
		(Capacitors)	
C 201, 202, 223, 224	88-336-504-01	4.7 µF, 25 V Electrolytic	4
C 225	88-335-124-01	100 µF, 16 V Electrolytic	1
C 207, 208	88-507-550-01	470 pF, Styrol	2
C 215, 216	88-517-570-01	680 pF, Styrol	2
C 205, 206	88-707-830-01	0.022 µF, Mylar	2
C 209, 210	88-707-640-01	0.0018 µF, Mylar	2
C 203, 204	88-707-700-01	0.0033 µF, Mylar	2

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
C 221, 22	88-717-810-01	0.01 μF, Mylar	2
C 211, 212, 217, 218, 219, 220	88-717-830-01	0.022 μF, Mylar	6
C 213, 214	88-717-660-01	0.0022 μF, Mylar	2
'Bias OSC Section'			
Tr 401	89-313-647-01	Transistor, 2SC-1364-7	2
L 401	82-371-648-01	Micro inductor, 6.8 mH	1
L 402	82-371-612-01	OSC coil	1
		(Resistors)	
R 402	88-181-330-01	33Ω, ¼W ± 5% ELR	1
R 403	88-181-473-01	470 kΩ, ¼W ± 5% ELR	1
R 401	88-141-471-01	470Ω, ½W ± 5%	1
		(Capacitors)	
C 401, 402, 403	88-337-104-01	1 μF, 50 V Electrolytic	3
C 406	88-553-660-01	2200 pF, Styrol	1
C 404	88-717-810-01	0.01 μF, Mylar	1
C 405	88-717-720-01	0.0047 μF, Mylar	1
'Power Section'			
Tr 601	89-313-647-01	Transistor, 2SC-1364-7	2
D 601	87-027-068-01	Diode, 10D-CR	1
D 602	87-027-067-01	Diode, 10D-C	1
L 601	82-371-648-01	Micro inductor, 6.8 mH	1
		(Resistors)	
R 602	88-181-682-01	6.8 kΩ, ¼W ± 5% ELR	1
R 603	88-141-331-01	330Ω, ½W ± 5%	1
R 604	88-141-222-01	2.2 kΩ, ½W ± 5%	1
R 601	88-151-220-01	22Ω, 1W ± 5%	1
		(Capacitors)	
C 602, 605	88-334-134-01	1000 μF, 35 V Electrolytic	2
C 603, 604	88-336-224-01	220 μF, 25 V Electrolytic	2

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
"DOLBY NR CIRCUIT BOARD ASSEMBLY"			
PCB-B	82-371-623-01	Dolby NR circuit board	1
Tr 301, 302, 303, 304, 309, 310	89-308-284-01	Transistor, 2SC-828R	6
Tr 305, 306, 307, 308, 313, 314	89-308-285-01	Transistor, 2SC-828S	6
Tr 311, 312	89-106-285-01	Transistor, 2SA-628F	2
D 301, 302, 303, 304, 309, 310	87-026-066-01	Diode, M-8513A-O	6
D 305, 306, 307, 308	88-051-060-01	Diode, IN-60	4
D 311	82-371-647-01	Zener diode, RD-8.2E	1
FET 301, 302	82-371-625-01	FET, 2SK-30D	2
L 301, 302	82-371-621-01	Coil, 36 mH	2
L 303, 304	82-371-622-01	Coil, 23 mH	2
SFR 301, 302	87-021-383-01	Semi-fixed resistor, 4.7 kΩ	2
SFR 303, 304	87-021-381-01	Semi-fixed resistor, 1 kΩ	2
		(Resistors)	
R 359, 360	88-181-330-01	33Ω, ¼W ± 5% ELR	2
R 355, 356	88-181-470-01	47Ω, ¼W ± 5% ELR	2
R 361, 362	88-181-102-01	1 kΩ, ¼W ± 5% ELR	2
R 319, 320, 371	88-181-122-01	1.2 kΩ, ¼W ± 5% ELR	3
R 305, 306, 335	88-181-182-01	1.8 kΩ, ¼W ± 5% ELR	3
R 357, 358	88-181-272-01	2.7 kΩ, ¼W ± 5% ELR	2
R 309, 310, 325, 326	88-181-332-01	3.3 kΩ, ¼W ± 5% ELR	4
R 301, 302, 333, 334	88-181-682-01	6.8 kΩ, ¼W ± 5% ELR	4
R 341, 342, 345, 346, 349, 350	88-181-822-01	8.2 kΩ, ¼W ± 5% ELR	6
R 343, 344	88-181-103-01	10 kΩ, ¼W ± 5% ELR	2
R 339, 340, 363, 364	88-181-153-01	15 kΩ, ¼W ± 5% ELR	4
R 307, 308, 317, 318	88-181-273-01	27 kΩ, ¼W ± 5% ELR	4

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
R 311, 312, 321, 322, 327, 328, 347, 348	88-181-333-01	33 kΩ, ¼W ± 5% ELR	8
R 331, 332	88-181-393-01	39 kΩ, ¼W ± 5% ELR	2
R 351, 352	88-181-473-01	47 kΩ, ¼W ± 5% ELR	2
R 303, 304, 353m 354	88-181-124-01	120 kΩ, ¼W ± 5% ELR	4
R 313, 314	88-181-154-01	150 kΩ, ¼W ± 5% ELR	2
R 315, 316	88-181-184-01	180 kΩ, ¼W ± 5% ELR	2
R 323, 324, 369, 370	88-181-224-01	220 kΩ, ¼W ± 5% ELR	4
R 365, 366, 367, 368	88-181-274-01	270 kΩ, ¼W ± 5% ELR	4
R 317, 318	88-183-334-11	330 kΩ, ¼W ± 5%	2
R 329, 330	88-371-645-01	3.3 kΩ, ¼W ± 1%	2
		(Capacitors)	
C 307, 308, 309, 310, 311, 312, 313, 314, 321, 322, 327, 328, 333, 334	88-335-114-01	10 µF, 16 V Electrolytic	14
C 339	88-335-124-01	100 µF, 16 V Electrolytic	1
C 325, 326	88-332-514-01	47 µF, 6.3 V Electrolytic	2
C 337, 338	87-015-099-01	0.33 µF, 10 V Aluminum solid	2
C 305, 306	88-707-660-01	2200 pF, Mylar	2
C 303, 304	88-707-690-01	3000 pF, Mylar	2
C 301, 302	88-707-710-01	3900 pF, Mylar	2
C 331, 332	88-707-910-01	0.1 µF, Mylar	2
C 323, 324, 329, 330, 335, 336	88-717-910-01	0.1 µF, Mylar	6
C 317, 318	82-371-643-01	4700 pF, PP	2
C 315, 316	82-371-642-01	5600 pF, PP	2
C 319, 320	82-371-641-01	0.027 µF, PP	2
" AUTO STOP/CrO_2 SWITCH CIRCUIT BOARD ASSEMBLY"			
PCB-C	82-371-601-01	Auto Stop/CrO_2 Switch circuit board	1
D 501, 502, 503, 504	87-027-083-01	Diode, 1S-1885	4

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
S_5	87-031-239-01	Slide switch (CrO_2 switch)	1
SFR 501	87-027-088-01	Semifixed resistor, CR-2AM-1	1
		(Resistors)	
R 503	88-181-271-01	270Ω, ¼W ± 5% ELR	1
R 505	88-181-222-01	2.2 kΩ, ¼W ± 5% ELR	1
R 504	88-181-332-01	3.3 kΩ, ¼W ± 5% ELR	1
R 501	88-181-472-01	4.7 kΩ, ¼W ± 5% ELR	1
R 506	88-181-183-01	18 kΩ, ¼W ± 5% ELR	1
R 502	88-181-104-01	100 kΩ, ¼W ± 5% ELR	1
		(Capacitors)	
C 504	88-336-514-01	47 µF, 25 V Electrolytic	1
C 502, 503	88-332-224-01	220 µF, 6.3 V Electrolytic	2
C 505	88-217-510-01	300 pF, Ceramic	1
C 501	88-217-810-01	0.01 µF, Ceramic	1
"FWD SWITCH CIRCUIT BOARD ASSEMBLY"			
PCB-E	82-370-621-11	FWD switch circuit board	1
S6	82-370-623-01	Slide switch (FWD switch)	1
"MISCELLANEOUS"			
PCB-D	82-346-603-21	Rotary circuit board	1
S7	87-031-261-01	Micro switch (Automatic stop switch)	1
S8	87-031-286-01	Push switch (Memory switch)	1
S9	87-040-067-01	Counter (Memory switch)	1
S 10	82-371-606-01	Leaf switch (REW switch)	1
S 11	82-371-605-01	Leaf switch (Pause switch)	1
S 12	82-358-603-01	G switch assembly	1
S 13	87-031-302-01	Push switch (Power switch)	1
S 14	87-031-280-01	Slide switch (Voltage switch)	1
VR 1, 2	82-371-613-01	Slide volume	2
PL 1, 2	82-371-638-01	Pilot lamp - VR	2
PL 3, 4	87-035-097-01	Pilot lamp - A	2
PL 5	82-371-636-01	Pilot lamp - DB	1

Electrical Parts (Cont'd)

Symbol No.	Part No.	Description	Quantity
PL 6	82-371-637-01	Pilot lamp - REC	1
	87-032-311-01	Pilot lamp socket	2
LP 1	82-371-615-01	Solenoid	1
F 1	87-035-079-01	Fuse (200 mA "T")	1
F 2	87-035-063-01	Fuse (630 mA "T")	1
F 3	87-035-064-01	Fuse (1 A "T")	1
F 4	87-035-107-01	Fuse (315 mA "T")	1
	82-371-602-01	Fuse holder	1
J 1, 2, 4	87-032-409-01	5P DIN socket (MIC, DIN (REC/PB))	3
J 3	87-032-287-01	Headphone jack (H.P.J.)	1
J 5, 6, 7, 8	82-371-650-01	2P pin jack	4
RPH	82-371-627-01	Rec/Pb head	1
EH	87-046-088-01	Erase head	1
PT	82-371-616-01	Power transformer	1
LM	82-371-611-01	Level meter	2
M	82-371-617-01	Motor	1
	87-034-069-01	AC cord (b)	1
	82-462-209-01	Insulation plate	1
	87-033-008-01	Lug plate	2
	87-033-092-01	PCB tab	5
		(Resistors)	
R 187, 188, 189, 190	88-183-105-11	1 MΩ, ¼W ± 5%	4
R 605	88-151-220-01	22Ω, 1W ± 5%	1
		(Capacitors)	
C 606	82-371-640-01	22 µF, 50 V Electrolytic	1
C 601	88-344-134-01	1000 µF, 35 V Electrolytic	1

Accessories/Package

Symbol No.	Part No.	Description	Quantity
	82-370-951-01	Cue knob	2
	80-291-642-01	Tape cassette, DMC-130	1
	80-692-580-01	Connection cord, CW-115	1
	82-371-951-01	Bridge volume knob	1
	82-371-901-01	Instructions booklet	1
	87-057-885-11	Guarantee card	1
	87-051-150-01	Poly-vinyl sack (for instructions booklet)	1
	87-051-145-11	Poly-vinyl sack (for case)	1
	87-051-135-11	Poly-vinyl sack (for bridge volume knob, AC cord & DIN cord)	3
	87-051-130-11	Poly-vinyl sack (for cue knob)	1
	87-057-770-01	Fuse label (1 A "T")	1
	87-057-774-01	Fuse label (200 mA "T")	1
	87-057-795-01	Fuse label (315 mA "T")	1
	87-057-798-01	Fuse label (630 mA "T")	1
	87-057-479-01	Dolby label	1
	82-371-851-01	Printed indiv. packing	1
	82-371-852-01	Cushion L, Printed indiv. packing	1
	82-371-853-01	Cushion R, Printed indiv. packing	1
	82-371-854-01	External carton box	1/2
	82-372-856-01	Accessory box	1