

Closer Relations through
"Clarion Service Manual"

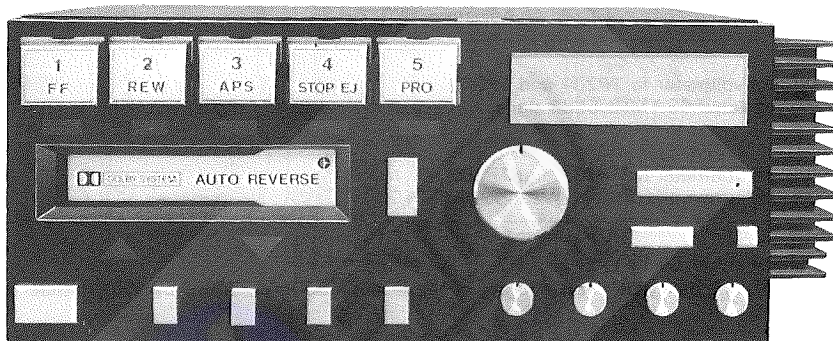
Service Manual

A-86

Overseas Sales Branch Offices

Clarion Corporation of America 5500 Rosecrans Ave., Lawndale, Calif., 90260 U.S.A. Tel: 213-973-1100 Telex: CLARIONLSA 66-4447
 Clarion Corporation of America (Eastern Division) 100 Thirteenth Avenue, Ronkonkoma, New York 11779 U.S.A. Tel: 516-467-1120 Telex: 64-0787
 Clarion Shoji (EUROPA) G.m.b.H. Rudolf-Diesel-Strasse 2, 6236 Eschborn 2, West Germany Tel: 06173-61041-42 Telex: 415414
 Clarion (HONG KONG) Co., Ltd. 526, Ocean Centre, Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: 3-690528 Telex: HX64293 CLAHK
 Clarion Canada Inc. 1401 Meyerside Dr. Mississauga, Ontario L5T 1G8, Canada Tel: 416-878-1367 Telex: 216968573 CLARION MSGA
 Clarion Shoji (U.K.) Ltd. 4-6, Faraday Road, Dorcan Industrial Estate, Dorcan, Swindon, Wiltshire SN3.5HQ United Kingdom Tel: (0793) 24081 Telex: 44689

NISSAN/DATSUN Automobile Genuine Hybrid Receiver Model PP-9024L



SPECIFICATIONS:

[RADIO SECTION]

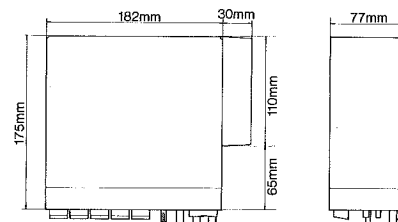
Circuit system: Superheterodyne
 Tuning system: Electronic tuning
 Receive range: AM 530 to 1,610kHz
 FM 87.9 to 107.9MHz
 Intermediate frequency:
 AM 450kHz
 FM 10.7MHz
 Quieting sensitivity: AM Less than 35dB
 (at 20dB S/N)
 FM Less than 20dB
 (at 30dB S/N)
 Selectivity: AM More than 50dB
 (at ±10kHz detune)
 Separation: FM More than 15dB
 Fidelity: AM 100Hz 0±3dB
 (Bass, treble=flat) 400Hz 0dB
 4kHz -14±5dB
 FM 100Hz +3±3dB
 400Hz 0dB
 7kHz -14±5dB
 Auto tuning stop sensitivity:
 AM DX 26~38dB FM DX 26~38dB
 LO 48~68dB LO 40~60dB

S/N ratio:
 Normal tape (120μS) 42dB/50dB (Dolby NR on)
 Metal tape (70μS) 44dB/52dB (Dolby NR on)
 FF, REW time: Less than 90sec. (C-60)

[SYNTHESIS]

Load impedance: 4Ω×2 (4Ω×4)
 Power output: More than 20W×2
 (at max. output)
 Power supply voltage: DC 13.2V (10.8V to 15.6V)
 Negative ground
 Current consumption: Less than 5A
 (at max. output)

Dimensions:



Weight: 2.2 kg

- Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

[TAPE SECTION]

Reproduction system: 4 track, 2 channel stereo
 cassette tape playback
 Tape speed: 4.76cm/sec.
 Wow & flutter: Less than 0.15% (W.R.M.S.)
 Separation: More than 30dB

COMPONENTS:

- PP-9024L-A
 - Main unit 1
 - Knob (VOL) 380-4372-00 1
 - Extension lead (7P) 852-8091-00 1

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ADJUSTMENTS:

AM

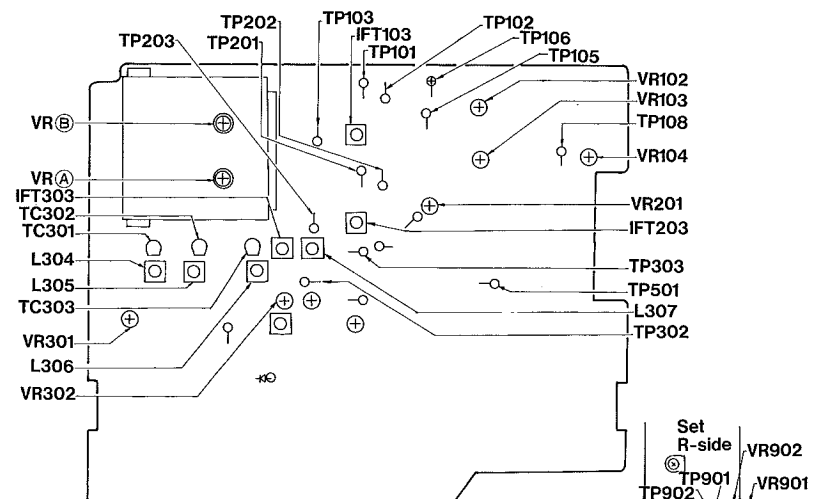
Item	Adjustment	Measuring Instrument						
Variable Capacitor Voltage	1) Connect the digital voltmeter to TP501. 2) Adjust the coil L306 at 530kHz to $1.2V \pm 0.1V$. Adjust the trimmer TC303 at 1,610kHz to $8.0 \pm 0.1V$ (repeat the same adjustment).	SG Digital voltmeter						
Tracking	1) Set the frequency to 600kHz and 1,400kHz. Adjust the coil L304 and L305 at 600kHz to get the maximum output. Adjust the trimmers TC301 and TC302 at 1,400kHz to get the maximum output. (repeat the same adjustment).	SG Milli-volt meter						
AGC	1) Input the frequency, 1,000kHz, 74dB and adjust the output to 2.45V by the set VOL. Adjust the output to -10dB (AGC 55dB) by VR302 when SG input is set to 18dB.	SG Milli-volt meter						
Stop Sensitivity	1) Set the frequency to 1,000kHz and adjust the stop sensitivity to the specified level: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Stop Sensitivity</td> <td>Adjustable VOL</td> </tr> <tr> <td>DX</td> <td>32dB</td> </tr> <tr> <td>LO</td> <td>58dB</td> </tr> </table>	Stop Sensitivity	Adjustable VOL	DX	32dB	LO	58dB	SG Milli-volt meter
Stop Sensitivity	Adjustable VOL							
DX	32dB							
LO	58dB							
Clean Z2 IF Filter	1) Input the non-modulated 450kHz signal into TP302 at about 50dB from SG and adjust the TP303 output to the maximum by L307.	SG Milli-volt meter						

MAIN CHANNEL/SUB-CHANNEL Switching
 (1) It can be switched to the main channel by grounding TP106
 (2) It can be switched to the sub-channel by shorting between TP106 & TP105

FM

Item	Adjustment	Measuring Instrument						
OV Adjustment	(MAIN) 1) Connect the digital voltmeter to TP201 and TP202. 2) Input the non-modulated 98.1MHz/55dB signal and adjust the reading of digital voltmeter to $0 \pm 70mV$ by IFT203. (SUB) 1) Connect the digital voltmeter to TP101 and TP102. 2) Follow the same adjustment steps as MAIN above. (IFT103)	SG Digital voltmeter						
IF Level	(MAIN) 1) Connect the digital voltmeter to TP203. 2) Input the 98.1MHz frequency at 15dB and adjust the level to $600mV \pm 20mV$ by VR(A) (inside tuner pack). (SUB) 1) Connect the digital voltmeter to TP103. 2) Adjust the level by VR(B) (inside the tuner pack) similar to MAIN. Keep the difference between MAIN & SUB voltages within 0.05V.	SG Digital voltmeter						
SASC	1) Set SG to 98.1MHz and input the 30%-modulated frequency 7kHz, 65dB. 2) Adjust the SASC outputs evenly to -3dB by VR102 when the SG output is set to 35dB.	SG Milli-volt meter						
Stop Sensitivity	1) Adjust the stop sensitivity to the specified level with the receiving frequency at 98.1MHz. <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Stop Sensitivity</td> <td>Adjustable VOL</td> </tr> <tr> <td>DX</td> <td>32dB</td> </tr> <tr> <td>LO</td> <td>50dB</td> </tr> </table>	Stop Sensitivity	Adjustable VOL	DX	32dB	LO	50dB	SG Milli-volt meter
Stop Sensitivity	Adjustable VOL							
DX	32dB							
LO	50dB							
MPX	1) Set SG to 98.1MHz and 65dB and tune it with the set. 2) Connect the frequency counter to TP108 via a 100kΩ resistor and adjust its reading to $76k \pm 0.1kHz$ by VR104.	SG Frequency counter						
Separation	1) Set SG to 98.1MHz, 65dB and modulation of 100% (signal 90%, PL 10%) and connect the output of stereo modulator to the external modulation terminal. 2) Adjust the R-channel signal by VR103 to the minimum level when the stereo modulator output is set to L-channel.	SG Stereo-modulator Milli-volt meter						

ADJUSTMENT POINT



ADJUSTMENT:

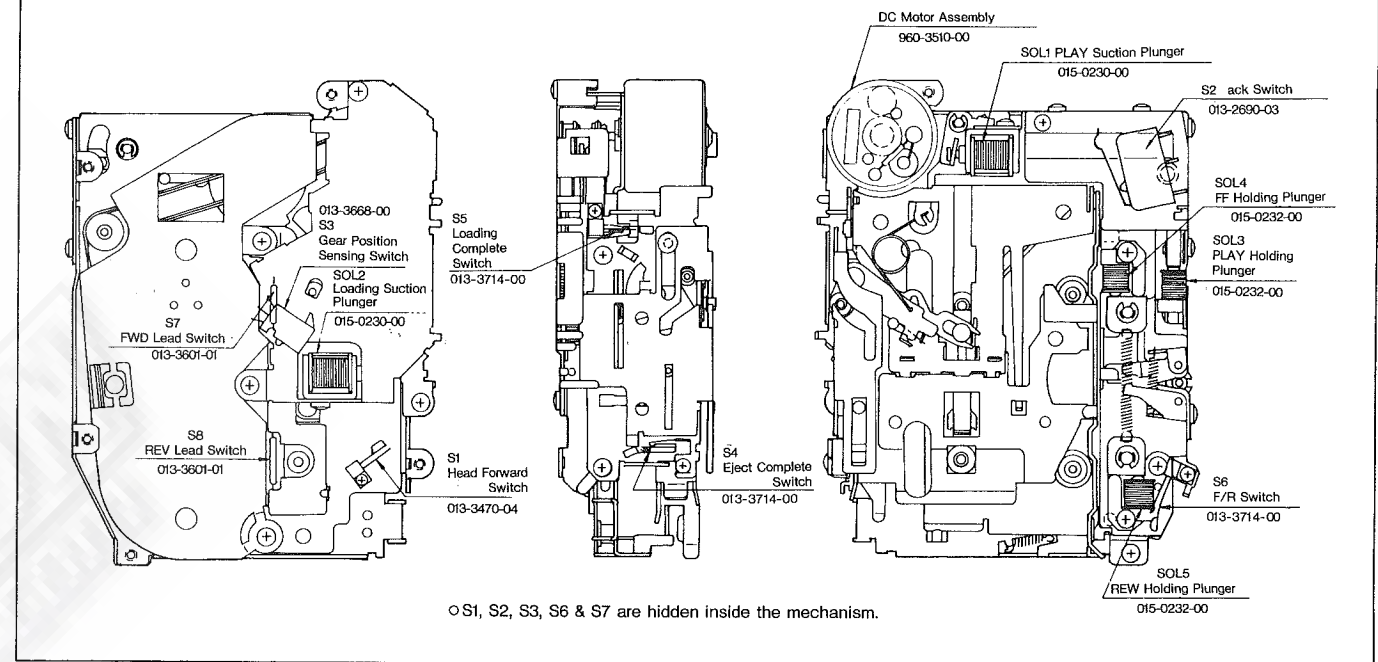
Electric Circuitry

1. Dolby Level Control

- Adjust the voltages of both TP901 and TP902 to 300mV by VR901 and VR902 while playing the test tape CCT-422-112 (400Hz, 200nWb/m).
(Dolby NR: OFF, Tape Selector: NORM)

Tape Mechanism

Switch Plunger Layout



1. Head Azimuth Control

Tapes may be damaged or the crosstalk may be lost if the head is inclined from the tape, particularly when the treble gain decreases and the head tilts over excessively.

[Adjustment]

Play the azimuth tape (8kHz, -10VU) and adjust the output level by the head's azimuth adjusting screw (716-0429-00) to the maximum both in the direction of FWD and REV play (Fig. 1).

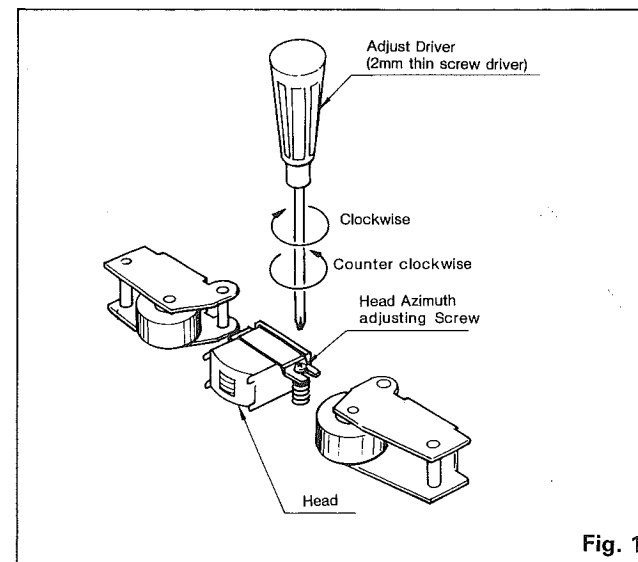


Fig. 1

2. PLAY Suction Plunger (015-0230-00) Adjustment

It is unable to unlock if the suction stroke of plunger is too small (as the plunger is set a bit too close to the front end) or it is hard to get enough power to release the lock pressure as the suction force of plunger is lost if the stroke is too many (as the plunger is set a bit too deep). Thus the power assist mechanism fails to function and makes it unable to play the tape.

[Adjustment]

Loosen the machine screws (M2.6x3) and pull the plunger forward. Then press it deeper by deeper until the plunger core strikes the bottom. Set the plunger at the position where the cam gear can be unlocked. Just press the plunger core without touching the gear lock plate and check the plunger (Fig. 2).

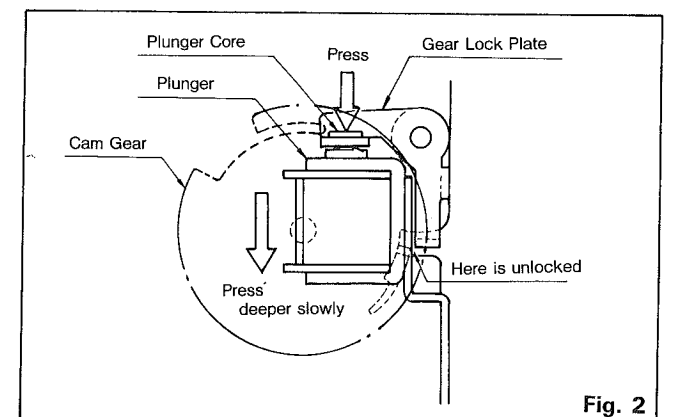


Fig. 2

3. Loading Suction Plunger Adjustment

[Adjustment]

Set the plunger in the similar way as Item 2 above at the position where the reverse plate assembly can be unlocked. Do not touch the loading lock plate assembly (Fig. 3).

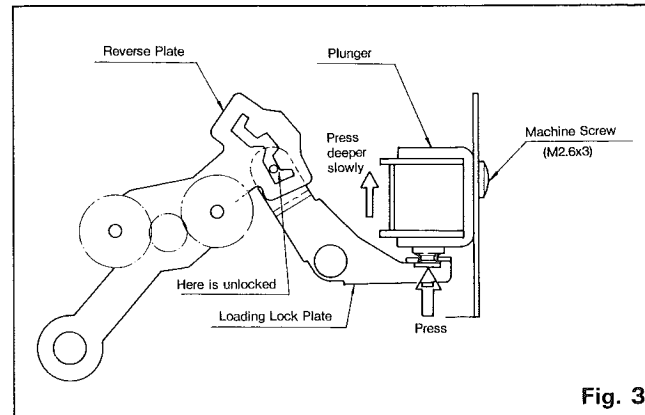


Fig. 3

4. PLAY Holding Plunger (015-0232-00) Adjustment

The PLAY holding plunger holds the head shift (power assist) mechanism, but this function does not work, if it is dislocated outward, as the core of the plunger plate assembly (630-1198-03) cannot reach the plunger.

If it is much closer to the inside, the holding force of the lock plate assembly weakens to properly hold the above mechanism.

[Adjustment]

Unlock the cam gear lock and make the power plate assembly returned to its original position. Then loosen two machine screws (M2.6x3) and set the plunger base C (630-1447-01) so that it strikes the core (press the plunger plate to the bottom and set the plunger base C at the bottom) (Fig. 4).

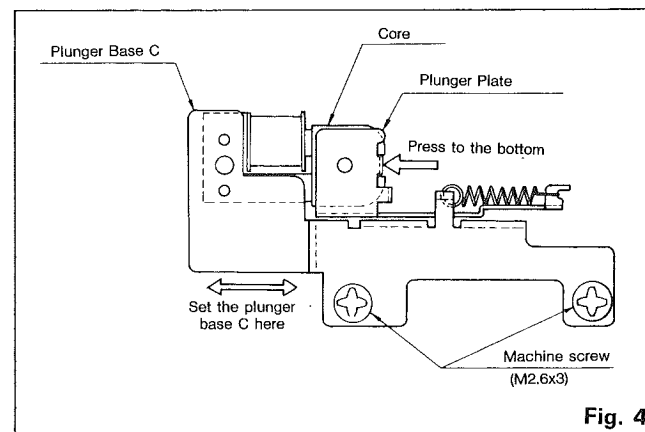


Fig. 4

5. Loading Complete Switch (013-3714-00) Adjustment

This mechanism controls the loading with the electric signal and it detects the completion of loading with the loading complete switch.

If the switch timing is too fast, the loading mechanism may be stopped before completing the loading, or it affects the mechanism badly if the timing is too slow.

[Adjustment]

Press the EJECT plate assembly to the bottom and loosen the machine screw (M2x6). Remove the solder from the earth side and adjust the gap between the switch terminals to be about 1mm (Fig. 5).

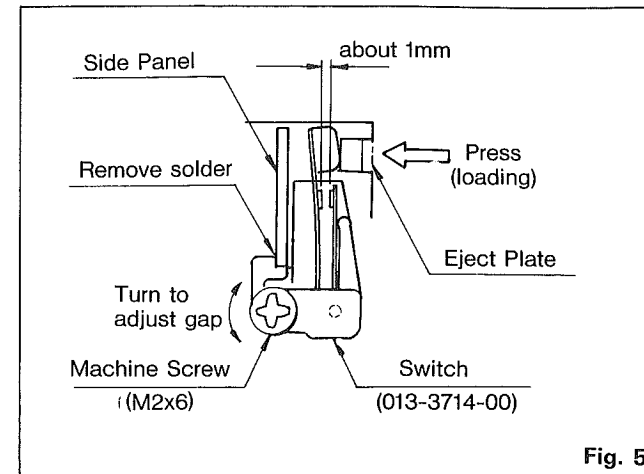


Fig. 5

6. EJECT Complete Switch (013-3714-00) Adjustment

[Adjustment]

Pull out the EJECT plate assembly fully and follows the same steps as Item 5 above (Fig. 6).

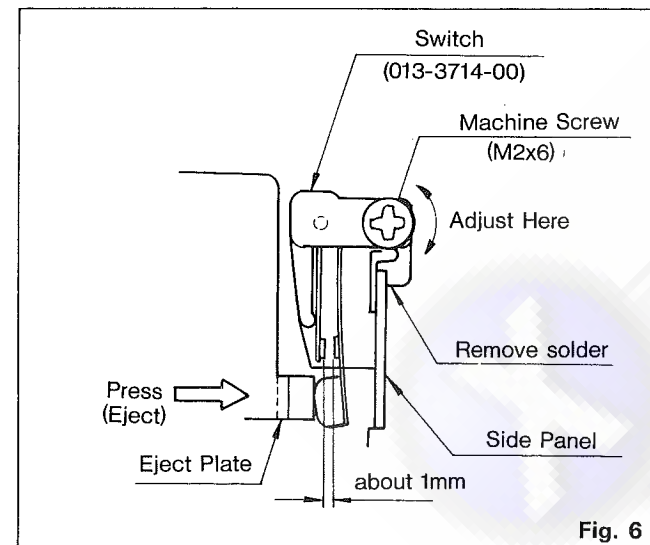


Fig. 6

7. Eject Mechanism Detachment

Turn over the mechanism, remove three machine screws (M2.6x4) and detach the loading base plate assembly (960-3419-06). Fig. 7

Then remove the spring (750-2195-02) and two machine screws (M2.6x3) to detach the side panel assembly (960-3364-05). Then disconnect the guide arm assembly from the pack guide assembly (Fig. 8).

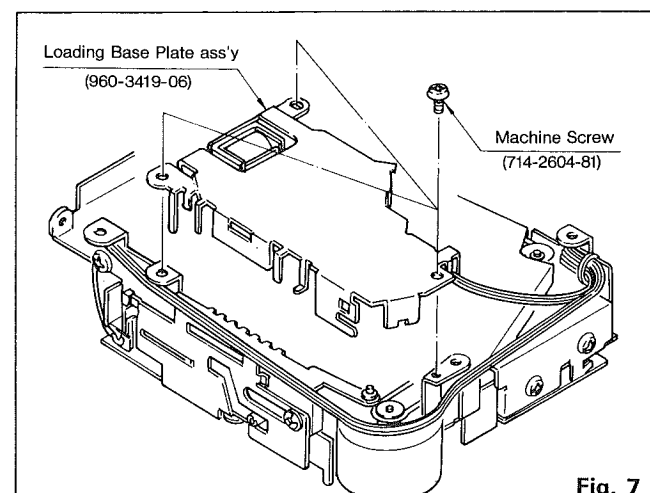


Fig. 7

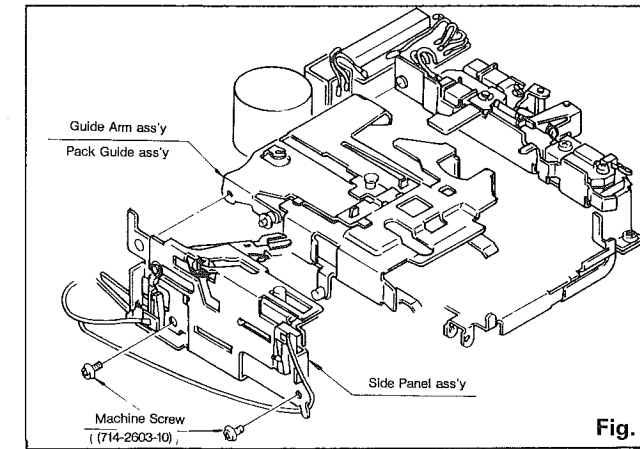


Fig. 8

8. Reel Base Plate Assembly Detachment

Turn over the mechanism and remove four machine screws (M2.3x3). Disconnect the flywheel plate assembly and the belt (602-0070-00). Then disconnect the flywheel gently from the bearing and detach the reel base plate assembly (Fig. 9).

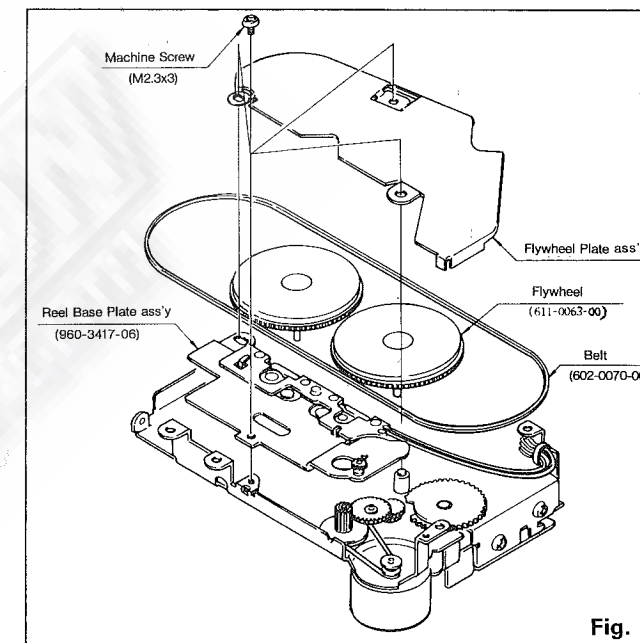


Fig. 9

9. Motor Replacement

Disconnect the power cord from the motor with the solder iron. Then disconnect the loading base plate assembly (960-3419-06) and follow the same steps as Item 8 above. Remove two washers (746-0628-01) and disconnect the gear B, gear pulley and belt (602-0071-01). Remove the screw (716-0484-00) to detach the motor (Fig. 10).

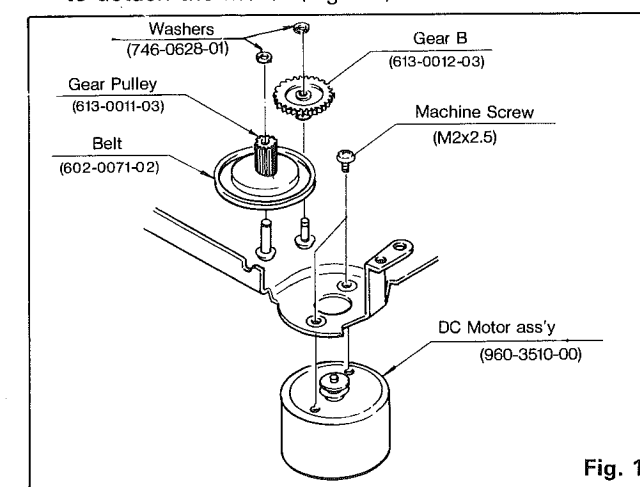


Fig. 10

10. Frame Assembly Detachment

Disconnect the guide arm assembly as per Item 7 above. Heat the screw (716-0479-00) and remove it with the solder iron. Then disconnect the lead wire from the suction plunger (015-0230-00) and remove two screws (M2.6x4) to detach the frame assembly (Fig. 11).

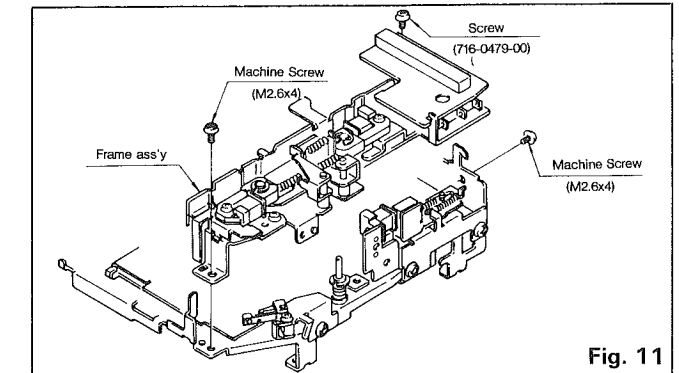


Fig. 11

11. Head Replacement

Detach the frame assembly as per Item 10 above. Remove three screws (716-0429-00, 714-2003-81 and 714-2603-81) and replace the head (Fig. 12).

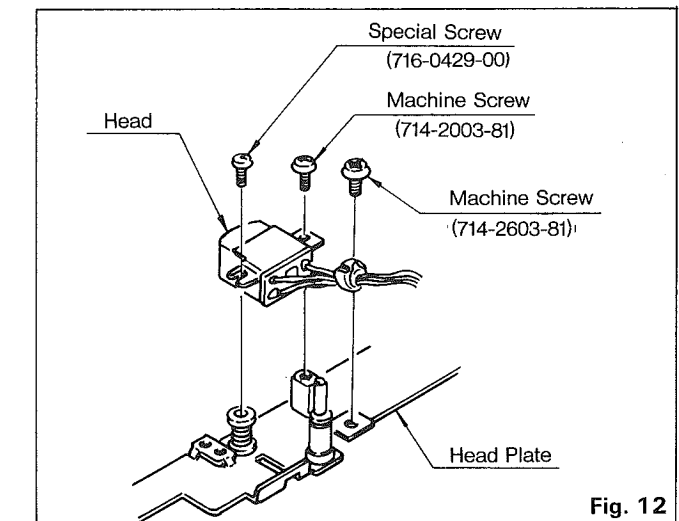


Fig. 12

12. Pinch Roller Replacement

Detach the frame as per Item 10 above. Then remove the E-ring (743-3000-10) and pull out the spring (750-2185-00) without stretching it too much. Gently lift up the roller assembly and pull out from the shaft (Fig. 13).

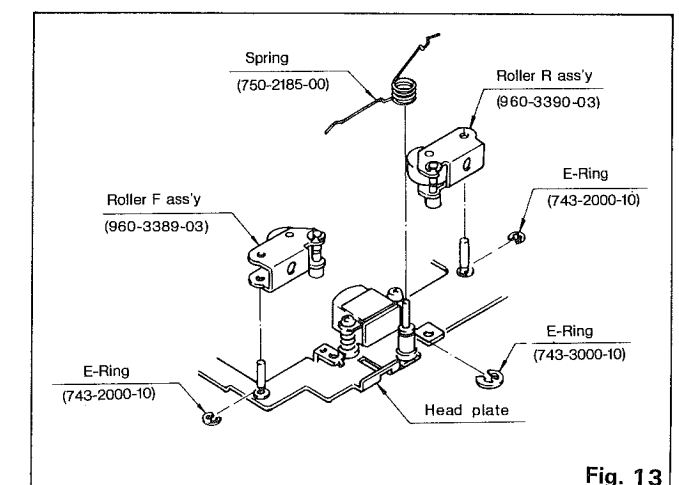


Fig. 13

PARTS LIST:

⊗Electrical section

⊗MAIN P.W.B

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY	REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
D ₃₀₆	001-0112-00	Diode (1S1588)	1	IC ₅₀₅	051-0449-00	IC (TC9135P)	1
D _{301,302,303}	001-0292-01	Diode (SVC321SP)	3	IC ₃₀₃	051-0454-00	IC	1
D _{502,508}	001-0330-00	Diode (1SS119)	2	IC ₁₀₅	051-0463-00	IC (μPD1256C)	1
D ₅₂₈	001-0346-28	Diode (MTZ5.1JA)	1	IC ₉₀₁	051-0466-00	IC (AM)	1
D ₅₂₁	001-0347-25	Diode (MA4047L)	1	IC ₁₀₄	051-0467-00	IC (Z1-HIC)	1
D ₅₂₄	001-0347-30	Diode (MA4051H)	1	IC _{101,201}	051-0488-03	IC (μPC1245V)	2
D ₅₂₇	001-0347-33	Diode (MA4056H)	1	IC _{603,604}	051-0538-00	IC (IR2E34)	2
D ₆₀₆	001-0347-41	Diode (MA4075M)	1	IC ₁₀₃	051-0541-00	IC	1
D _{501,523,525,605}	001-0347-48	Diode (MA4091H)	4	IC ₅₀₈	051-0551-02	IC (HD61903)	1
D ₅₂₆	001-0347-50	Diode (MA4100M)	1	IC ₅₀₄	051-0568-04	IC (TD62554S)	1
D _{310,524}	001-0356-00	Diode (1SS184)	2	X ₅₀₁	061-1037-01	Crystal-OSC (4.5M)	1
D _{529,530,531,532}	001-0360-00	Diode (S5566B)	4	Q _{501,502}	101-0709-00	Transistor (2SB709AQRS)	2
D _{304,305}	001-0361-00	Diode (1SS198)	2	Q _{509,510}	101-0911-17	Transistor (2SB911MQ)	2
D _{101,102}	001-0366-00	Diode (LTZ-MR15)	2	Q ₅₁₃	102-1815-25	Transistor (2SC1815Y)	1
D ₅₁₀₋₅₁₉	001-0387-00	Diode (1SS201)	10	Q ₆₀₉	102-1846-00	Transistor (2SC1846QRS)	1
D _{509,520}	001-0389-00	Diode (DAP601)	2	Q ₅₁₁	102-2594-00	Transistor (2SC2594)	1
TC _{301,302,303}	004-1566-00	Trimmer	3	Q _{304,305,306}	102-3326-01	Transistor (2SC3326A)	3
IFT _{101,102,201,202}	005-0765-00	IF-transformer	4	Q ₆₁₀	102-3400-00	Transistor (2SC3400)	1
IFT ₃₀₂	005-0843-00	IF-transformer	1	Q _{301,202,503,504}	103-0601-18	Transistor (2SD601AR)	4
IFT ₃₀₄	005-0854-01	IF-transformer	1	Q ₅₁₂	103-1225-00	Transistor (2SD1225MPQR)	1
IFT _{103,203}	005-0866-00	IF-transformer	2	Q ₃₀₃	108-0435-00	FET (2SK435)	1
IFT ₃₀₁	005-0926-01	IF-transformer	1	Q _{201,203-205,301,302,307,308,314,612,613}	125-2005-02	Transistor (UN2212)	11
IFT ₃₀₃	005-0940-00	IF-transformer	1	R ₁₂₁	032-0059-01	Film resistor (1kΩ)	1
L ₃₀₇	010-1724-00	Coil	1	R _{106,210}	032-0059-02	Film resistor (2.2kΩ)	2
L ₃₀₂	010-1898-00	Coil	1	R ₃₁₉	032-0059-03	Film resistor (4.7kΩ)	1
L ₃₀₃	010-1960-18	Coil	1	R _{105,136,209}	032-0059-04	Film resistor (15kΩ)	3
L _{101,201}	010-1960-86	Coil (220μH)	2	R ₃₂₁	032-0059-08	Film resistor (100kΩ)	1
L ₃₀₁	010-2003-03	Coil	1	R _{111,215,325,509}	032-0059-10	Film resistor (10kΩ)	4
L ₃₀₆	010-2079-00	Coil	1	R ₃₂₀	032-0059-12	Film resistor (39kΩ)	1
L ₃₀₄	010-2080-00	Coil	1	R ₃₁₈	032-0059-23	Film resistor (10Ω)	1
L ₃₀₅	010-2080-00	Coil	1	R ₁₂₃	032-0059-47	Film resistor (3.3kΩ)	1
VR ₃₀₁	012-3808-02	Variable resistor (1kΩ)	1	R _{107,211}	032-0059-48	Film resistor (3.9kΩ)	2
VR ₃₀₂	012-3808-04	Variable resistor (3.3kΩ)	1	R ₅₄₅	114-1211-11	Film resistor (1Ws120Ω)	1
VR ₁₀₄	012-3808-05	Variable resistor (4.7kΩ)	1	R ₆₃₆	114-2701-11	Film resistor (1Ws27Ω)	1
VR ₁₀₃	012-3808-06	Variable resistor (10kΩ)	1	R _{117,129,138,301}	116-1031-10	Chip resistor (10kΩ)	4
VR _{102,201,304}	012-3808-08	Variable resistor (33kΩ)	3	R _{306,315,316}	116-1041-10	Chip resistor (100kΩ)	3
VR ₃₀₃	012-3808-10	Variable resistor (100kΩ)	1	R ₁₂₈	116-1231-10	Chip resistor (12kΩ)	1
PL ₂₀₁	017-0321-01	Pilot lamp (NEON)	1	R ₂₀₆	116-1521-10	Chip resistor (1.5kΩ)	1
CCT ₅₀₃	050-0077-02	Component circuit (4x10kΩ)	1	R _{127,314}	116-2231-10	Chip resistor (22kΩ)	2
CCT ₅₀₂	050-0086-03	Component circuit (8x4.7kΩ)	1	R _{204,205,312}	116-3321-10	Chip resistor (3.3kΩ)	3
CCT ₅₀₅	050-0088-03	Component circuit (7x10kΩ)	1	R ₁₃₀	116-3331-10	Chip resistor (33kΩ)	1
CCT ₅₀₄	050-0093-02	Component circuit (6x10kΩ)	1	R _{131,137}	116-3921-10	Chip resistor (3.9kΩ)	2
CCT ₅₀₁	050-0097-00	Component circuit (3x3.3k, 10kΩ)	1	R ₂₀₁	116-5631-10	Chip resistor (56kΩ)	1
IC ₅₀₃	051-0138-00	IC (TC4001BP)	1	C ₁₄₄	043-0147-00	Polyester capacitor (470pF P-P)	1
IC ₅₀₆	051-0175-00	IC (TC4069UBP)	1	C ₇₀₁	043-0197-00	Polyester capacitor (0.01μF)	1
IC ₃₀₂	051-0190-00	IC (Z2)	1	C ₃₂₇	172-1042-20	Polyester capacitor (63V0.1μF)	1
IC ₅₀₇	051-0265-00	IC (μPA53C)	1	C _{109,212,323}	171-2233-06	Ceramic capacitor (0.022μF SR)	3
IC ₅₀₁	051-0330-01	IC (μPB54C)	1	C _{104,208}	175-1007-00	Ceramic chip capacitor (10pF)	2
IC ₁₀₁	051-0350-50	IC (LA6358D)	1	C _{122,123}	175-1011-00	Ceramic chip capacitor (100pF)	2

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY	REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
C ₃₀₁	175-1802-00	Ceramic chip capacitor (18pF)	1	C ₃₃₀	042-0174-00	Electrolytic capacitor (16V4.7μF TAN)	1
C _{130,501,502}	175-2202-00	Ceramic chip capacitor (22pF)	3	C ₃₃₃	042-0176-00	Electrolytic capacitor (16V10μF TAN)	1
C ₃₁₄	175-3301-00	Ceramic chip capacitor (33pF)	1	C ₃₂₅	042-0186-00	Electrolytic capacitor (35V1μF TAN)	1
C ₃₃₂	175-3901-00	Ceramic chip capacitor (39pF)	1	C _{319,334}	042-0200-00	Electrolytic capacitor (10V4.7μF TAN)	2
C ₃₂₂	175-4311-06	Ceramic chip capacitor (430pF UJ)	1	C ₅₂₁	179-3363-32	Electrolytic capacitor (16V33μF)	1
C ₁₃₄	175-8211-00	Ceramic chip capacitor (820pF)	1	C _{112,113,115,117,118,121,126,127,137,146,218,311,313,335,510,642,645}	179-4763-22	Electrolytic capacitor (10V4.7μF)	9
C _{108,138,206}	177-1022-05	Ceramic chip capacitor (1000pF)	3	C ₁₃₂	181-1063-32	Electrolytic capacitor (16V10μF LN)	1
C _{101,133,188,189,201,202,307,310,312,320,329,503,504,506,507,509,522,639,646}	177-1032-05	Ceramic chip capacitor (0.01μF)	19	C _{326,525,526,527,528,529}	182-1043-62	Electrolytic capacitor (50V0.1μF)	6
C ₁₂₈	177-2222-05	Ceramic chip capacitor (2200pF)	1	C _{110,113,119,124,131,213,216,643}	182-1053-62	Electrolytic capacitor (50V1μF)	8
C _{102,103,105,107,111,187,204,205,207,209,214,302,303,305,308,318,321,324,336}	177-2232-05	Ceramic chip capacitor (0.022μF)	19	C ₁₄₀	182-1056-62	Electrolytic capacitor (50V1μF NP)	1
C _{120,125,647,648}	177-2245-06	Ceramic chip capacitor (0.22μF)	4	C _{110,114,116,117,118,121,126,127,137,146,218,311,313,335,510,642,645}	182-1063-32	Electrolytic capacitor (16V10μF)	17
C ₃₃₁	177-3322-05	Ceramic chip capacitor (0.0033μF)	1	C ₅₁₁	182-1073-12	Electrolytic capacitor (6.3V100μF)	1
C _{136,145}	177-3332-05	Ceramic chip capacitor (0.033μF)	2	C ₃₃₇	182-2243-62	Electrolytic capacitor (50V0.22μF)	1
C _{115,217}	177-4712-05	Ceramic chip capacitor (470pF)	2	C ₁₄₂	182-2246-62	Electrolytic capacitor (50V0.22μF NP)	1
C ₃₀₄	177-4732-05	Ceramic chip capacitor (0.047μF)	1	C _{309,316,512,524}	182-2253-62	Electrolytic capacitor (50V2.2μF)	4
C ₃₀₅	177-6812-05	Ceramic chip capacitor (680pF)	1	C ₅₁₇	182-2263-22	Electrolytic capacitor (10V2.2μF)	1
C ₁₄₁	177-6822-05	Ceramic chip capacitor (6800pF)	1	C ₃₁₅	182-3353-62	Electrolytic capacitor (50V3.3μF)	1
C ₃₂₈	177-6835-06	Ceramic chip capacitor (0.068μF)	1	C _{106,129,135,211,513,640,644}	182-4743-62	Electrolytic capacitor (50V0.47μF)	7
				C _{143,508}	182-4746-62	Electrolytic capacitor (50V0.47μF NP)	2

⊗MECHANISM CONTROL P.W.B

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY	REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
D _{801-811,901}	001-0330-00	Diode (1SS119)	12	Q ₉₀₄	102-2655-25	Transistor (2SC2655Y)	1
D ₈₁₈	001-0347-14	Diode (MA4033M)	1	Q ₈₀₇₋₈₁₂	102-2785-49	Transistor (2SC2785-THF)	6
D ₈₁₇	001-0347-33	Diode (MA4056H)	1	Q _{817,903}	102-3400-00	Transistor (2SC3400AC)	2
D ₉₀₃	001-0347-45	Diode (MA4082H)	1	Q _{901,902}	103-0655-05	Transistor (2SD655ETZ)	2
D ₈₁₂₋₈₁₆	001-0360-00	Diode (S5566B)	5	R _{803,804}	114-1011-11	Film resistor (1Ws100Ω)	2
D ₉₀₂	001-0361-00	Diode (1SS198)	1	R _{801,802,805}	114-1211-11	Film resistor (1Ws120Ω)	3
VR _{901,902}	012-3614-09	Variable resistor (47kΩ B)	2	R _{831,833}	114-2291-11	Film resistor (1Ws2.2Ω)	2
C _{807,808}	042-0323-00	Electrolytic capacitor (16V4.70μF)	2	C ₉₀₁₋₉₀₄	160-1022-05	Ceramic capacitor (50V1000pF B)	4
CCT ₈₀₃	050-0078-03	Component circuit (5x10kΩ)	1	C _{804,805}	160-2212-05	Ceramic capacitor (50V220pF B)	2
CCT _{801,802}	050-0088-03	Component circuit (7x10kΩ)	2	C ₈₀₆	171-1033-06	Ceramic capacitor (50V0.01μF)	1
IC ₈₀₄	051-0144-00	IC (TC4071BP)	1	C ₉₁₉	172-1041-20	Polyester capacitor (63V0.1μF)	1
IC ₈₀₅	051-0222-00	IC (TC4539BP)	1	C _{908,909}	173-1032-10	Polyester capacitor (50V0.01μF)	2
IC ₈₀₃	051-0265-00	IC (μPA53C)	1	C ₉₁₄	179-2273-22	Electrolytic capacitor (10V220μF)	1
IC ₉₀₃	051-0362-01	IC (BA338)	1	C ₉₀₇	182-1073-22	Electrolytic capacitor (10V100μF)	1
IC ₈₀₂	051-0447-50	IC (μPA2004C)	1	C ₉₂₀	183-1043-62	Electrolytic capacitor (50V0.1μF)	1
IC ₈₀₁	051-0468-02	IC (μPD652C)	1	C _{918,921}	183-1053-62	Electrolytic capacitor (50V1μF)	2
IC ₉₀₂	051-0523-00	IC (NR9200)	1	C _{802,905,906,916,917}	183-1063-32	Electrolytic capacitor (16V10μF)	5
IC ₉₀₁	051-0539-00	IC (TA7405P)	1	C ₉₂₃	183-2243-62	Electrolytic capacitor (50V0.22μF)	1
CR ₈₀₁	060-0091-00	Ceramic resonator (CSB400P9)	1	C _{801,803,922}	183-2253-62	Electrolytic capacitor (50V2.2μF)	3
Q ₈₀₁	100-1020-25	Transistor (2SA1020YZ)	1	C _{910,911,915}	183-2263-32	Electrolytic capacitor (16V22μF)	3
Q _{802,803}	100-1175-49	Transistor (2SA1175-THF)	2	C _{912,913}	183-4753-52	Electrolytic capacitor (35V4.7μF)	2
Q ₈₀₄₋₈₀₆	101-0811-49	Transistor (2SB811-THF)	3	C ₉₂₄	183-4763-32	Electrolytic capacitor (16V4.7μF)	1
Q ₈₁₃₋₈₁₆	102-2458-25	Transistor (2SC2458)	4				

◎AUDIO P.W.B

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
IC _{601,602}	051-0364-01	IC (μ PC1230H2)	2
Q _{605,608}	103-0655-05	Transistor (2SD655E)	2
C _{613,626}	160-1022-05	Ceramic capacitor (1000pF B)	2
C _{618,619,620,631,632,633}	173-1042-10	Ceramic capacitor (0.1 μ F)	6
C _{621,634}	179-2283-31	Electrolytic capacitor (16V2200 μ F)	2

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
C _{611,624}	182-1063-32	Electrolytic capacitor (16V10 μ F)	2
C _{615,616,617,627,628,630}	182-1073-32	Electrolytic capacitor (16V100 μ F)	6
C ₆₂₂	182-2253-62	Electrolytic capacitor (50V2.2 μ F)	1
C _{612,614,625,629}	183-1073-12	Electrolytic capacitor (6.3V100 μ F)	4

◎TONE CONTROL P.W.B

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
D ₅₀₃	001-0347-30	Diode (MA4051H)	1
D ₄₀₂	001-0347-39	Diode (MA4068H)	1
D ₆₀₃	001-0347-41	Diode (MA4075M)	1
D _{401,601}	001-0347-46	Diode (MA4091L)	2
D _{504,505,506,507,602,609}	001-0356-00	Diode (1SS184)	6
D ₆₀₇	001-0360-00	Diode (S5566B)	1
D ₆₀₈	001-0387-00	Diode (1SS201)	1
L ₆₀₁	009-0633-00	Choke	1
IC ₅₀₂	051-0172-00	IC (TC4011BP)	1
IC ₄₀₃	051-0267-00	IC (TC4066BP)	1
IC ₄₀₂	051-0524-00	IC (BASS-TREB)	1
Q _{506,507,508,603,604}	103-0601-18	Transistor (2SD601AR)	5
Q _{505,601,602,606}	125-2005-02	Transistor (UN2212)	4

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
R ₆₄₁	116-2211-10	Chip resistor ($\frac{1}{8}$ W220 Ω)	1
R ₆₂₄	116-2231-10	Chip resistor ($\frac{1}{8}$ W22k Ω)	1
R ₆₂₅	116-4721-10	Chip resistor ($\frac{1}{8}$ W4.7k Ω)	1
C _{636,637,638}	172-1042-20	Polyester capacitor (63V0.1 μ F)	3
C ₅₁₅	177-1045-06	Ceramic chip capacitor (0.1 μ F)	1
C ₅₁₄	177-2212-05	Ceramic chip capacitor (50V220pF)	1
C ₆₃₅	179-3373-33	Electrolytic capacitor (16V330 μ F)	1
C _{403,404,412,413,607,608}	182-1056-62	Electrolytic capacitor (50V1 μ F)	6
C _{405,406,414,609,610}	182-1063-32	Electrolytic capacitor (16V10 μ F)	5
C ₆₂₃	182-2263-32	Electrolytic capacitor (16V22 μ F)	1
C ₇₀₂	183-1053-62	Electrolytic capacitor (50V1 μ F)	1
C _{407,605,606}	183-4763-32	Electrolytic capacitor (16V47 μ F)	3

◎VOLUME P.W.B

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
D ₄₀₃	001-0347-44	Diode (MA4082M)	1
D _{604,610}	001-0360-00	Diode (S5566B)	2
RY ₂	014-0447-02	Relay	1
RY ₁	014-0504-01	Relay	1
IC ₄₀₁	051-0285-51	IC (NJM4558S)	1

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
Q _{607,611}	102-3400-00	Transistor (2SC3400AC)	2
C _{601,603}	141-4722-10	Polyester capacitor (4700pF)	2
C _{401,402,408,409,411}	179-1063-32	Electrolytic capacitor (16V10 μ F)	5
C ₄₁₀	179-4763-32	Electrolytic capacitor (16V47 μ F)	1
C _{602,604}	182-2243-62	Electrolytic capacitor (50V0.22 μ F)	2

● How to read resistor

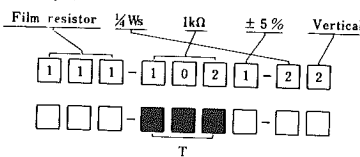
Resistors are deleted from the table of electric components, (except metal film resistors and special resistors). They can be converted to product Nos. as follows.

Film resistor (Carbon film resistor)



Classification	Resistance *	Tolerance of the value of resistance		Rated power			Shape
		0	± 5%	0		0	
1 1 1	Example	1	± 5%	1	$\frac{1}{8}$ W	Approx. 3.7mm	1 Horizontal
	33 Ω =330	2		2	$\frac{1}{4}$ Ws	Approx. 6.5mm	2 Vertical
	33k Ω =333	3		3			3
		4		4	$\frac{1}{2}$ W	Approx. 9mm	4
				7	$\frac{1}{2}$ W	Approx. 3.5mm	
				8	$\frac{1}{2}$ Ws	Approx. 6.6mm	
			9	$\frac{1}{4}$ Wss	Approx. 3.2mm		

(Example)



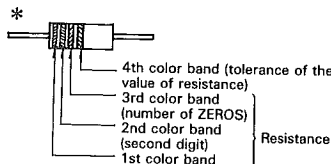
Note 1. The first two of three digits representing resistance are effective digits and the last one represents number of "0" following this. Unit is given in ohm (Ω).

Example of conversion of resistance

Note) R : Resistance, T : Converted value

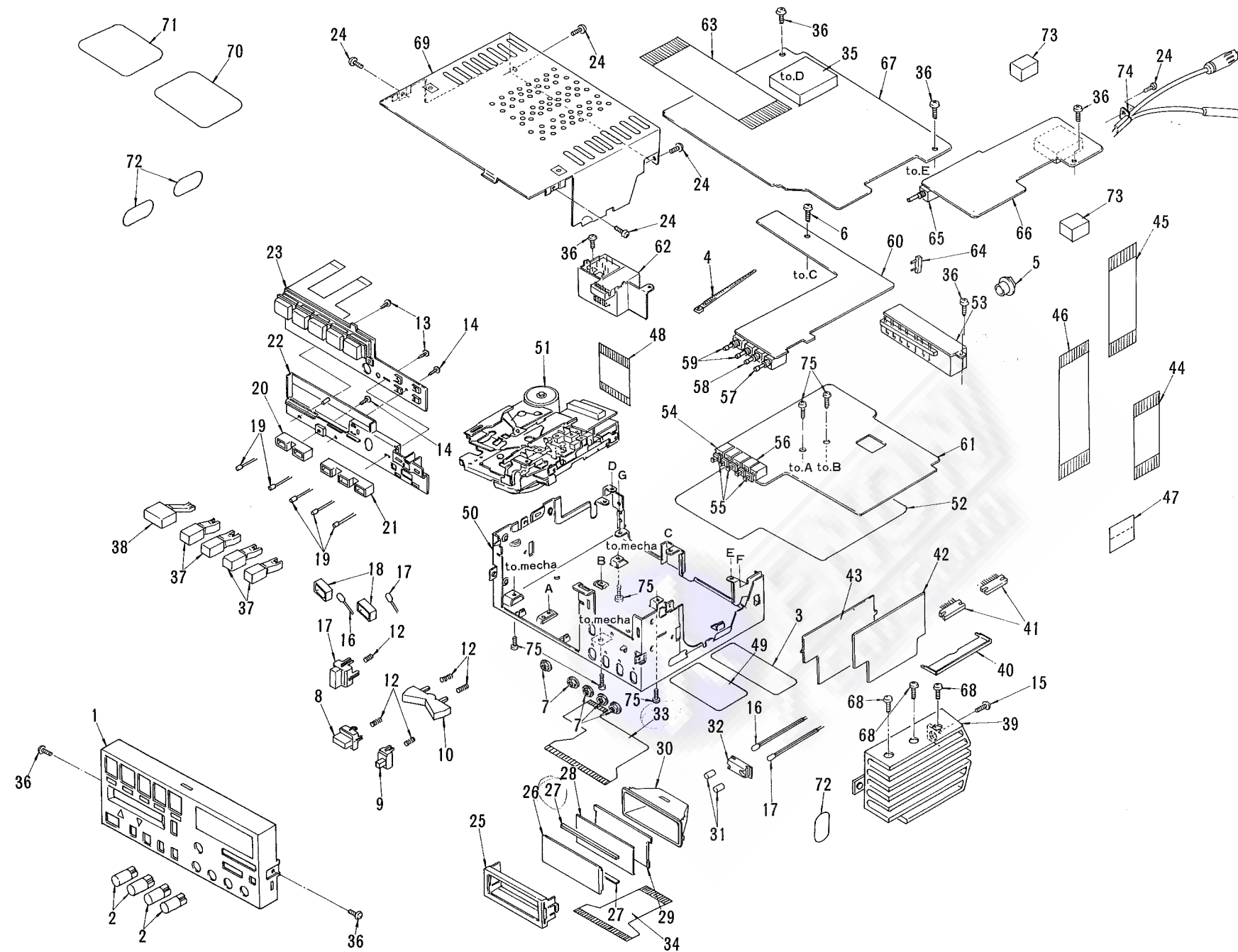
R	T	R	T	R	T	R	T	R	T	R	T	R	T	R	T	R	T	R	T
Ω	Ω	Ω	Ω	Ω	Ω	k Ω	k Ω	k Ω	k Ω	M Ω	M Ω	M Ω	M Ω	M Ω	M Ω	M Ω	M Ω	M Ω	M Ω
0.1	108	1.0	109	10	100	100	101	1.0	102	10	103	100	104	1.0	105	10	106	100	107
0.15	158	1.5	159	15	150	150	151	1.5	152	15	153	150	154	1.5	155	15	156	150	157

COLOR	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	GOLD	SILVER	NO COLOR
1st color band	0	1	2	3	4	5	6	7	8	9			
2nd color band	0	1	2	3	4	5	6	7	8	9			
3rd color band	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶				10 ⁻¹	10 ⁻²	
4th color band											± 5% (J)	± 10% (K)	± 20% (N)



EXPLODED VIEW • PARTS LIST:

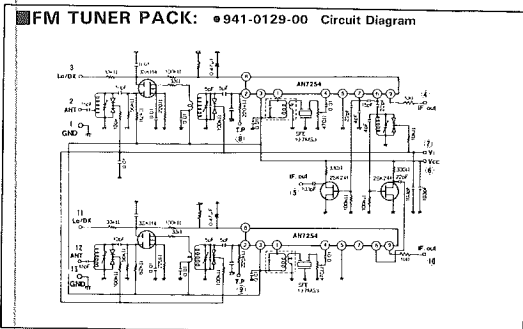
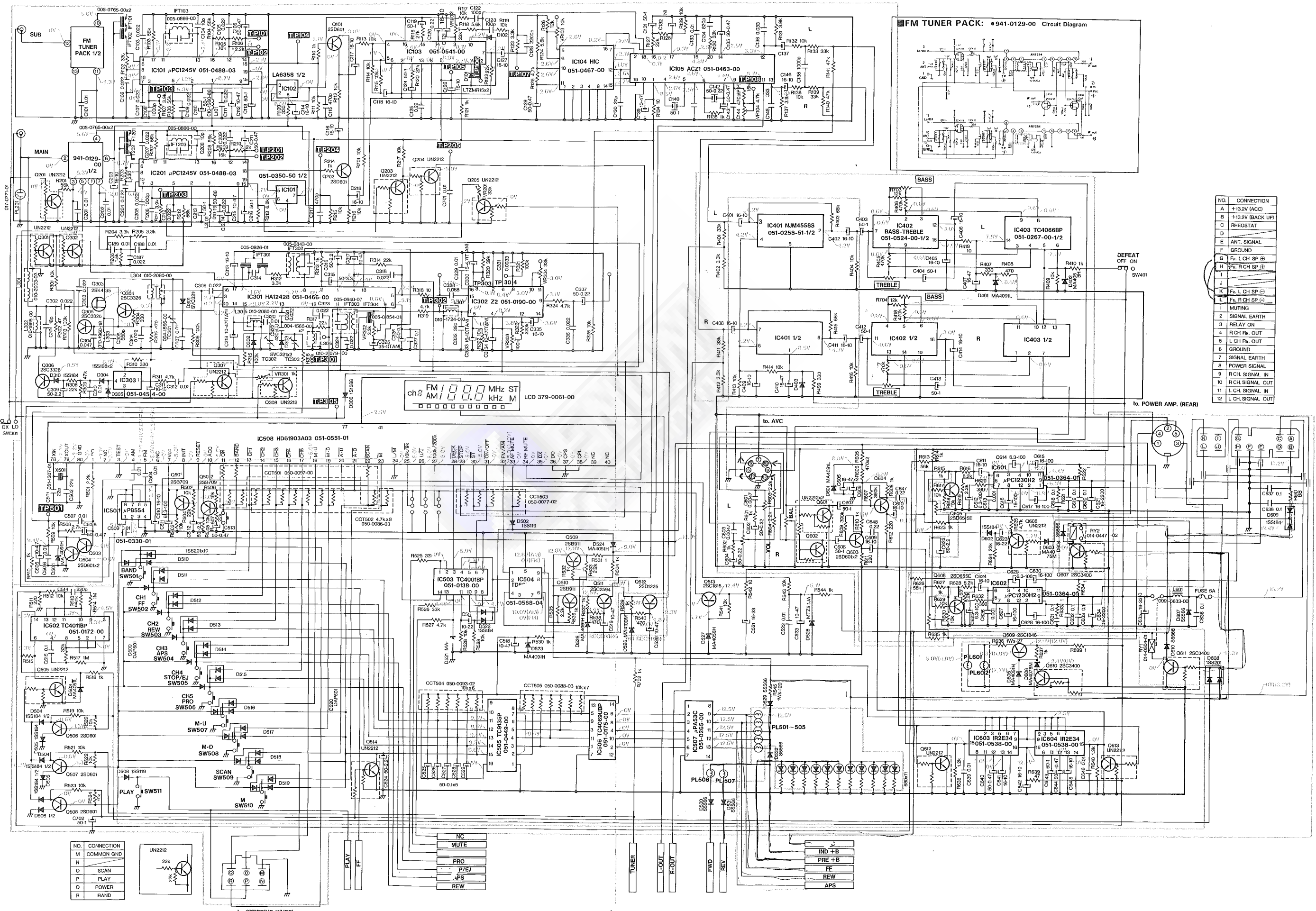
©Main section



REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
28	335-1700-00	Plate (Green)	1
29	335-1699-00	Plate	1
30	330-7855-00	Shade	1
31	345-2830-53	P.L. cap	2
32	345-3579-00	P.L. holder	1
33	099-6983-00	P.W.B	1
34	099-6984-01	P.W.B	1
35	941-0129-00	FM TUNER PACK	1
36	714-3006-80	Machine screw (M3x6)	6
37	382-0556-01	Button	4
38	382-0555-01	Button (AM/FM)	1
39	313-1180-01	Heat sink	1
40	330-7858-00	IC holder	1
41	051-0364-01	IC	2
42	099-6981-00	P.W.B	1
43	347-1317-00	Insulator	1
44	852-7906-00	Extension lead	1
45	852-7907-00	Extension lead	1
46	852-7908-00	Extension lead	1
47	347-1407-00	Insulator	1
48	816-1248-00	Vinyl lead	1
49	286-5254-00	Setplate	1
50	311-1132-01	Lower case	1
51	930-0508-00	Tape mechanism	1
52	347-1316-00	Insulator	1
53	074-0730-00	Outlet socket	1
54	013-3689-02	Switch (FM/AM)	1
55	013-3689-00	Switch	3
56	013-3689-01	Switch (METAL)	1
57	012-4153-00	Variable resistor	1
58	012-4151-00	Variable resistor	1
59	012-4152-00	Variable resistor	2
60	099-6980-01	P.W.B	1
61	099-6978-00	P.W.B	1
62	074-0729-01	Outlet socket	1
63	852-7909-00	Extension lead	1
64	060-0057-04	Fuse (5A)	1
65	012-4154-00	Variable resistor (VOL)	1
66	099-6979-00	P.W.B	1
67	099-6977-00	P.W.B	1
68	714-3012-81	Machine screw (M3x12)	3
69	310-1162-00	Upper case	1
70	285-1152-00	Guide label	1
71	290-2909-02	Label	1
72	290-2567-01	Label	3
73	345-3836-01	Spacer	2
74	093-0838-00	Antenna jumper	1
75	714-3004-80	Machine screw	6

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY	REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY	REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
1	940-0427A	Escutcheon ass'y	1	10	382-0554-00	Button (TUNING)	1	19	017-0324-04	Pilot lamp	5
2	380-4373-00	Knob	4	11	382-0551-01	Button (PLAY)	1	20	345-3760-00	P.L. holder	1
3	285-1152-00	Guide label	1	12	750-2068-01	Spring	5	21	345-3759-00	P.L. holder	1
4	335-0833-01	Lead holder	2	13	704-2612-81	Tap screw (M2.6x12)	2	22	335-1672-00	Back plate	1
5	335-1477-00	Short plug	1	14	704-2605-81	Tap screw (M2.6x5)	2	23	013-3720-02	Switch	1
6	714-3008-80	Machine screw (M3x8)	1	15	731-3006-40	Tap tight (M3x6)	1	24	731-3006-80	Tap tight (M3x6)	5
7	722-0368-00	Nut	5	16	017-0314-17	Pilot lamp	2	25	335-1673-00	Holder	1
8	382-0553-00	Button (SCAN)	1	17	017-0314-18	Pilot lamp	2	26	379-0061-00	Indicator	1
9	382-0552-00	Button (MEMO)	1	18	345-3761-00	P.L. holder	2	27	345-3831-00	Spacer	2

CIRCUIT DIAGRAM:



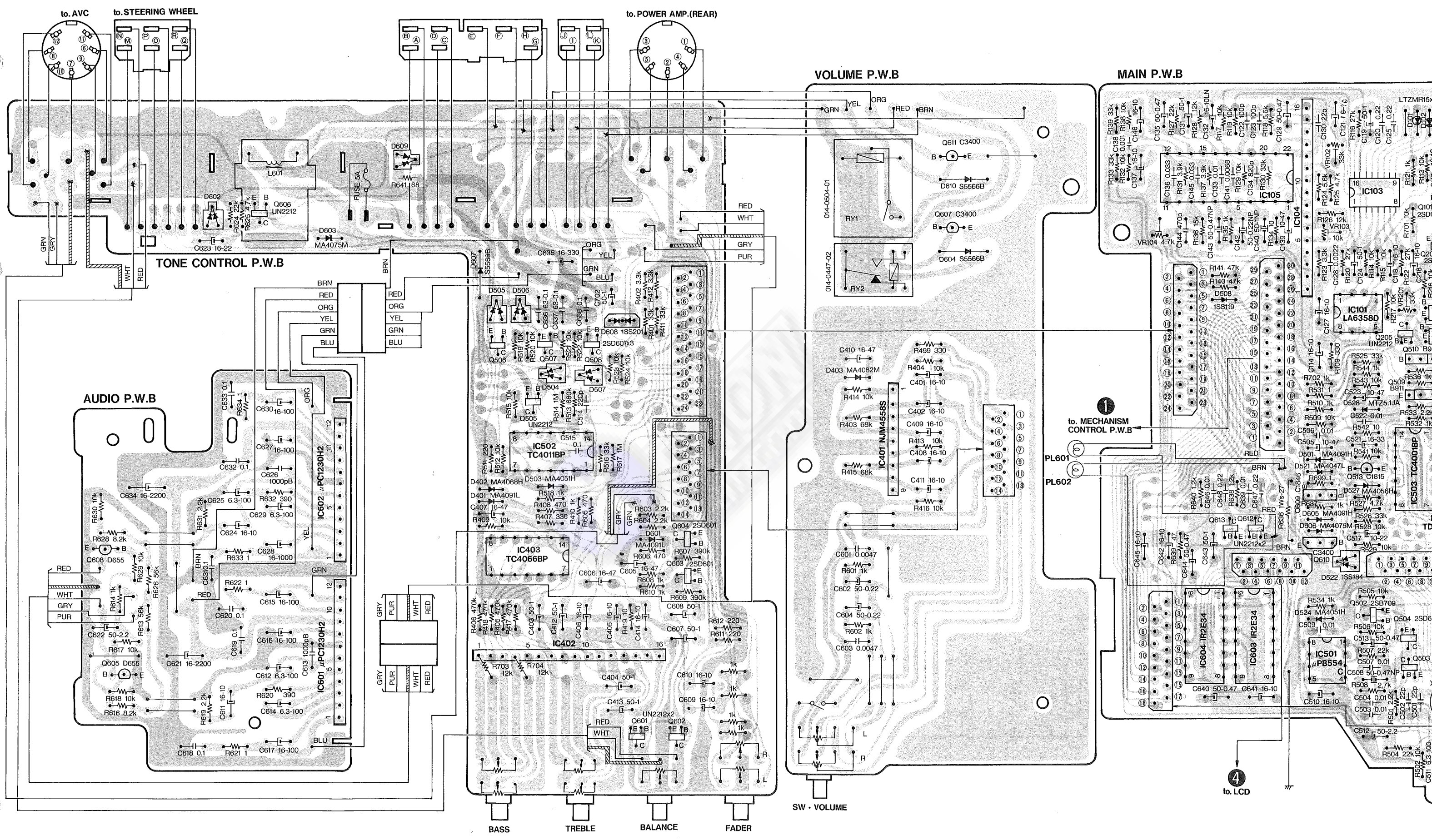
NO.	CONNECTION
A	+13.2V (ACC)
B	+13.2V (BACK UP)
C	RHEOSTAT
D	ANT. SIGNAL
E	GROUND
F	L CH SP (+)
G	R CH SP (+)
H	L CH SP (-)
I	R CH SP (-)
J	MUTE
K	RELAY ON
L	SIGNAL EARTH
M	RELAY ON
N	RELAY ON
O	L CH SIGNAL IN
P	R CH SIGNAL IN
Q	L CH SIGNAL OUT
R	L CH SIGNAL OUT

NO.	CONNECTION
M	COMMON GND
N	22k
O	SCAN
P	PLAY
Q	POWER
R	BAND

to. STEERING WHEEL

to. POWER AMP. (REAR)

to. AVC



to. AVC

to. STEERING WHEEL

to. POWER AMP. (REAR)

VOLUME P.W.B

MAIN P.W.B

TONE CONTROL P.W.B

AUDIO P.W.B

BASS TREBLE BALANCE FADER

SW - VOLUME

to. MECHANISM CONTROL P.W.B

to. LCD

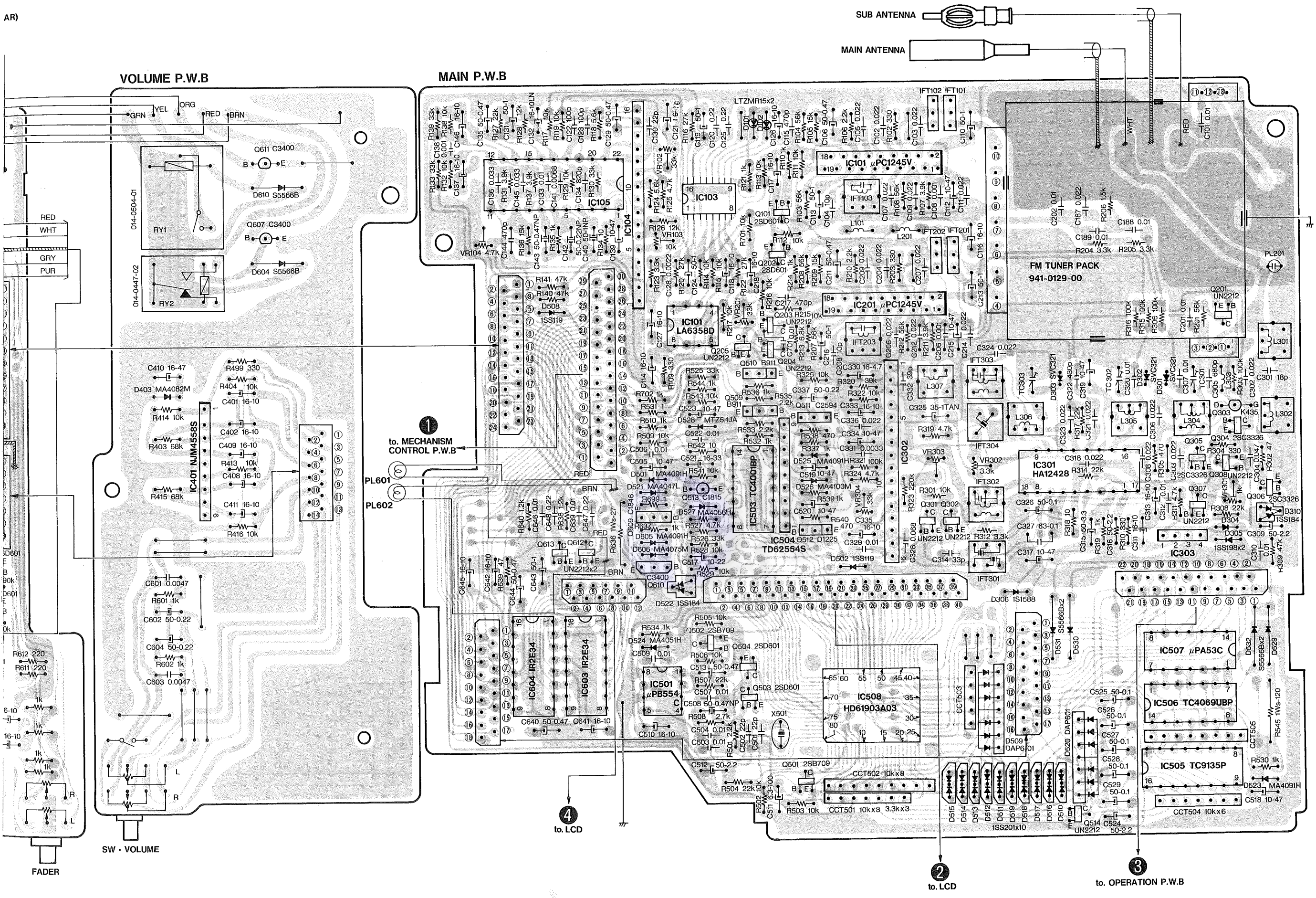
IC103
IC105
IC101 LA6358D
IC503 TC4001BP
IC401 NJM4558S
IC402
IC403 TC4066BP
IC502 TC4011BP
IC601 PC1230H2
IC602 PC1230H2
IC603 IR2E34
IC604 IR2E34
IC501 PB554

Q611 C3400
Q607 C3400
Q608 1SS201
Q609 1SS119
Q605 D655
Q606 UN2212
Q601
Q602
Q603
Q604

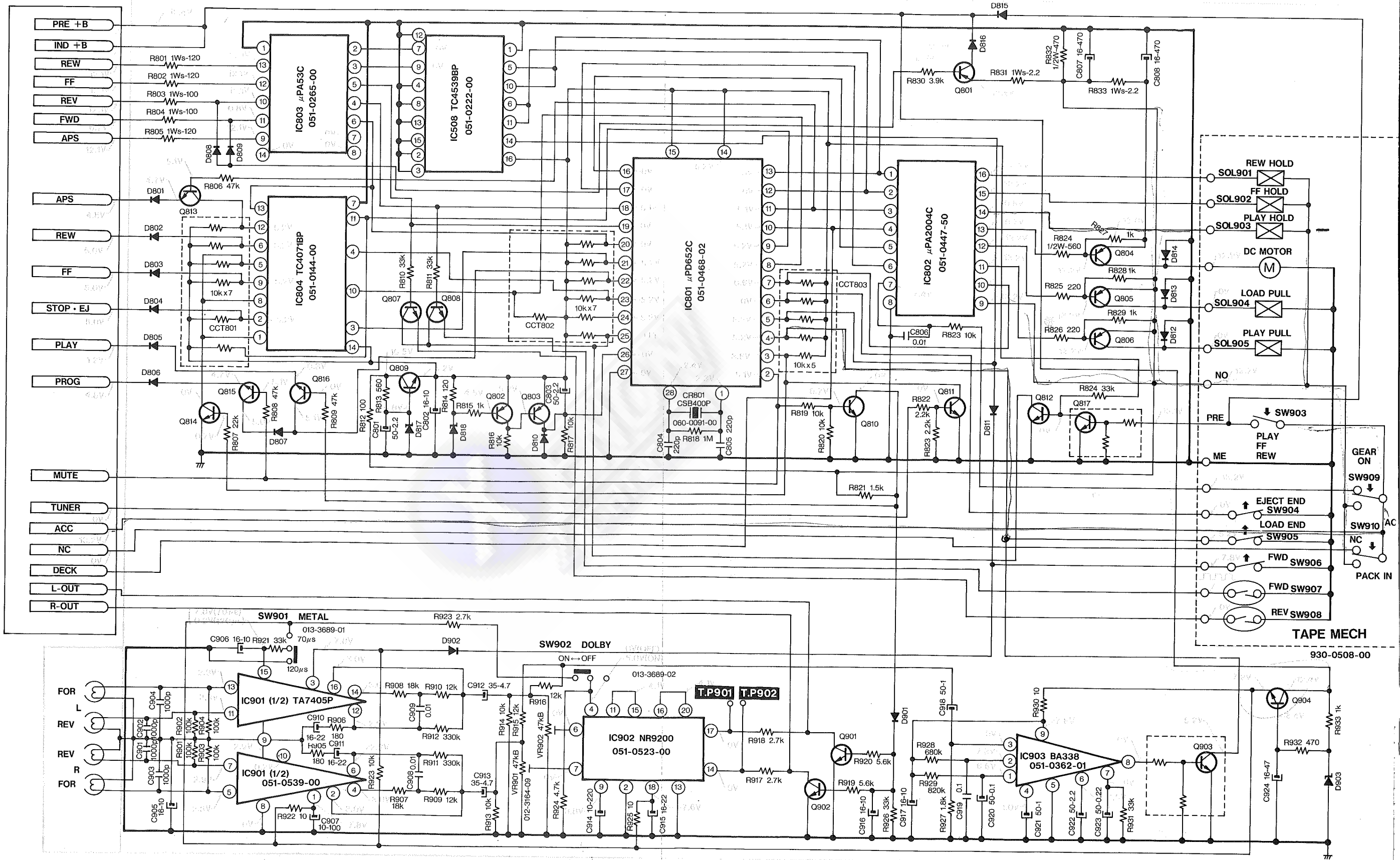
D609
D603 MA4075M
D608 1SS201
D601
D602
D604
D605
D606
D607
D610 S5566B

R402 3.3k
R403 68k
R404 10k
R405 10k
R406 10k
R407 33k
R408 47k
R409 10k
R410 1k
R411 33k
R412 33k
R413 10k
R414 10k
R415 68k
R416 10k
R417 10k
R418 10k
R419 10k
R420 10k
R421 10k
R422 10k
R423 10k
R424 10k
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R426 10k
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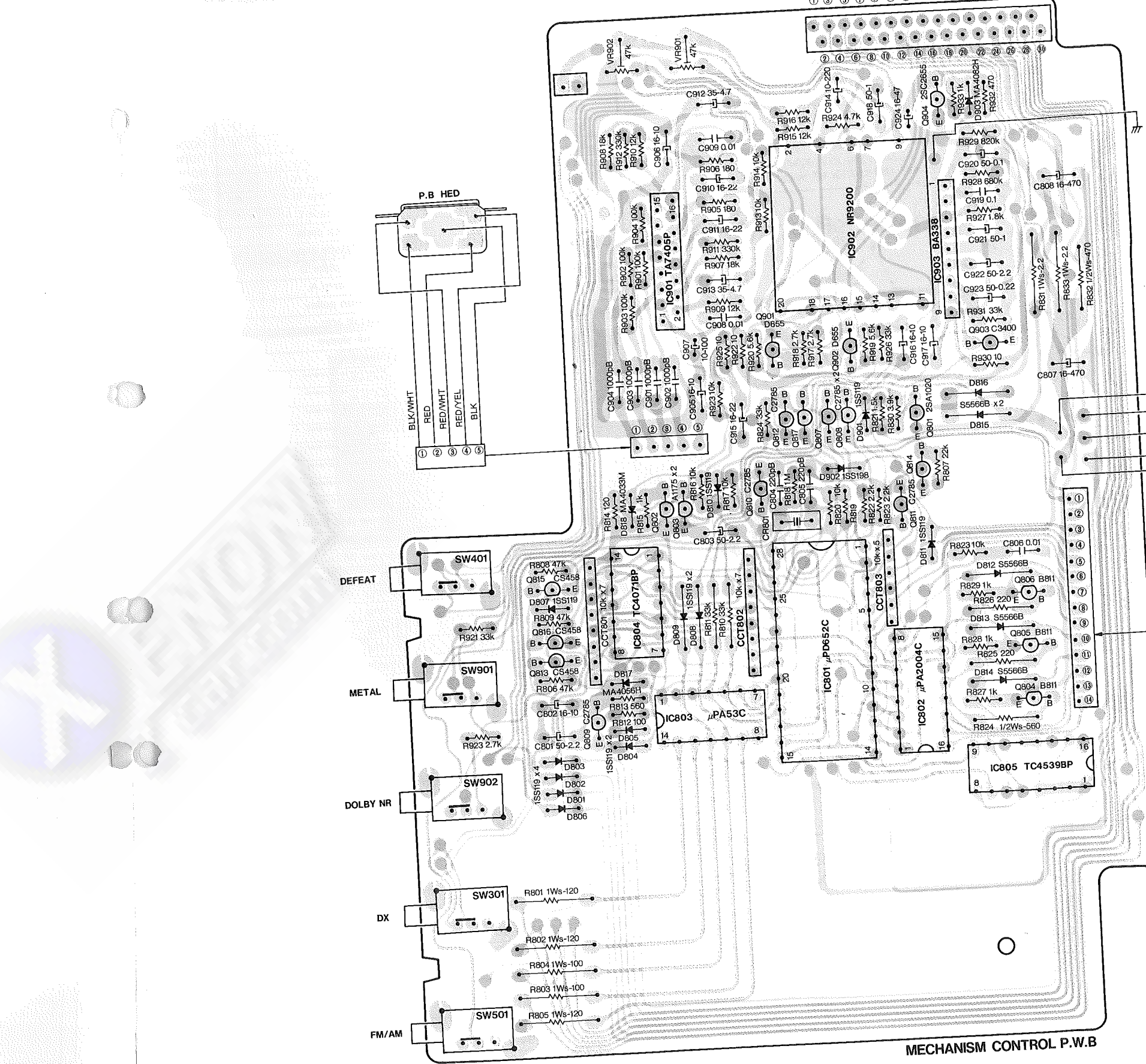
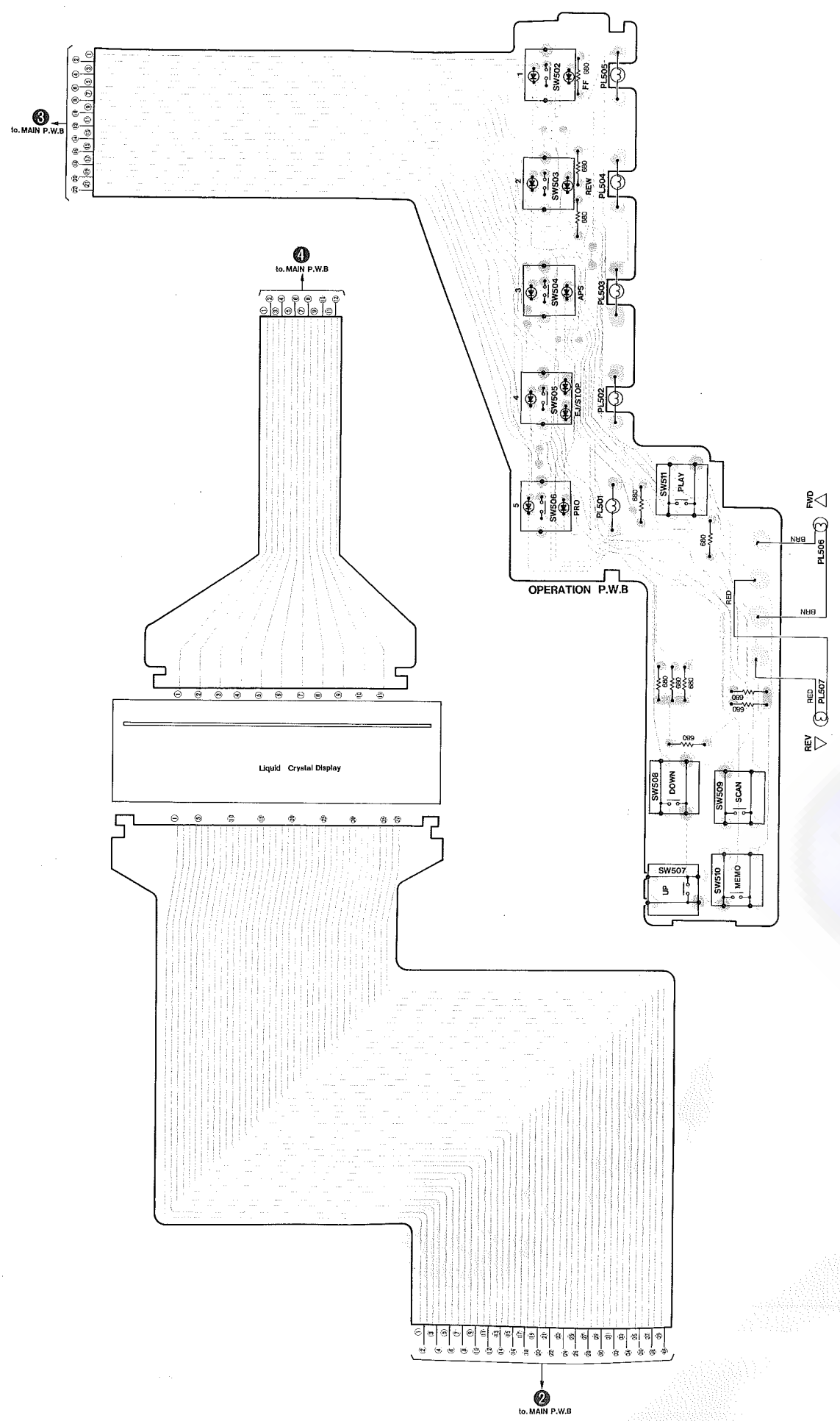
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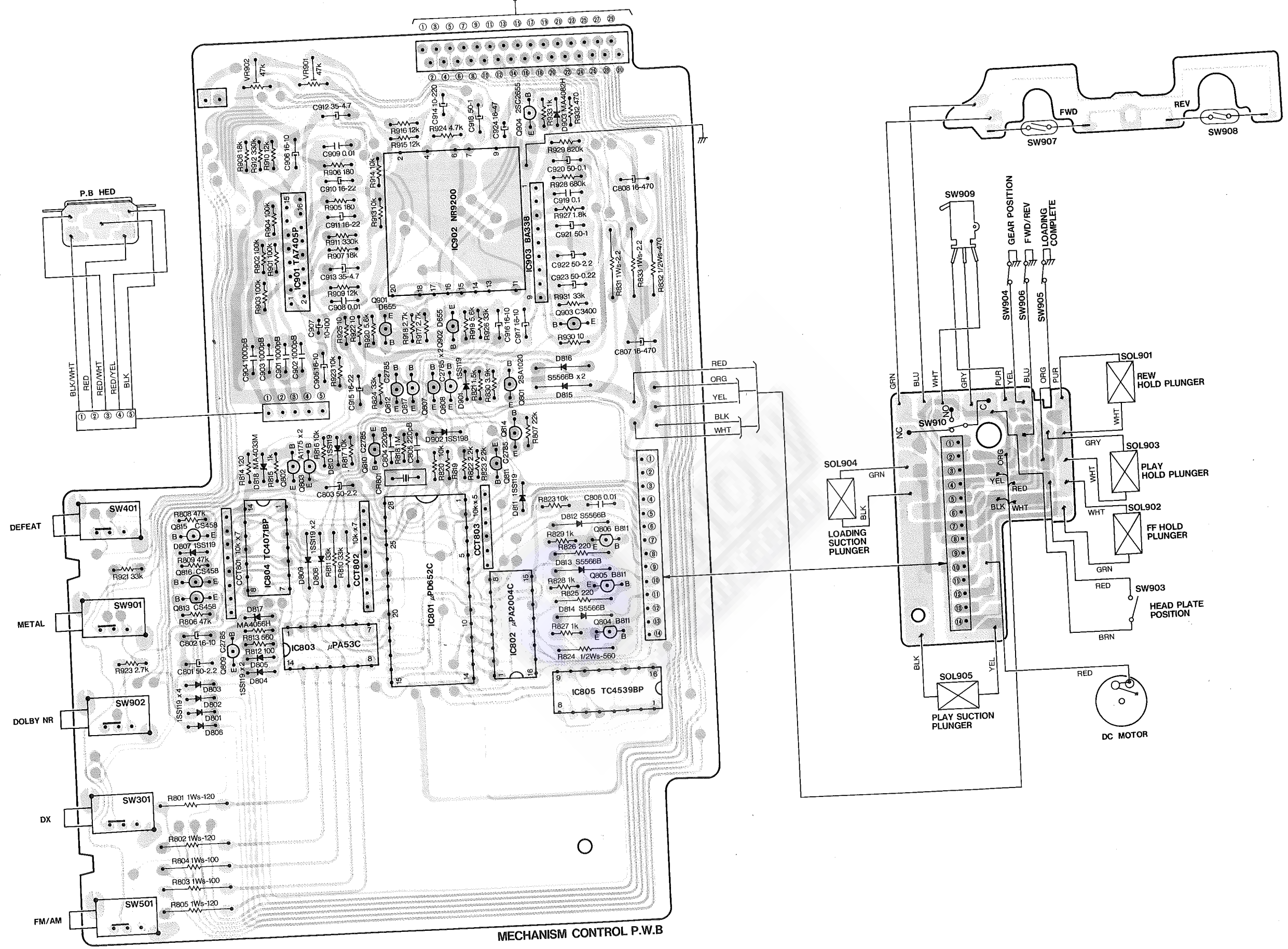


CIRCUIT DIAGRAM:



- | | |
|--------------------------|------------------------------|
| Q8012SA1020Y | D801 - D811, D901.....1SS119 |
| Q802, Q803.....2SA1175F | D812 - D816.....S5566B |
| Q804 - Q806.....2SB811F | D817MA4056H |
| Q807 - Q812.....2SC2785F | D818MA4033M |
| Q813 - Q816.....2SC2458Y | D902.....1SS198 |
| Q801, Q902.....2SD655E | D903.....MA4082H |
| Q817, Q903.....2SC3400 | |
| Q904.....2SC2655Y | |

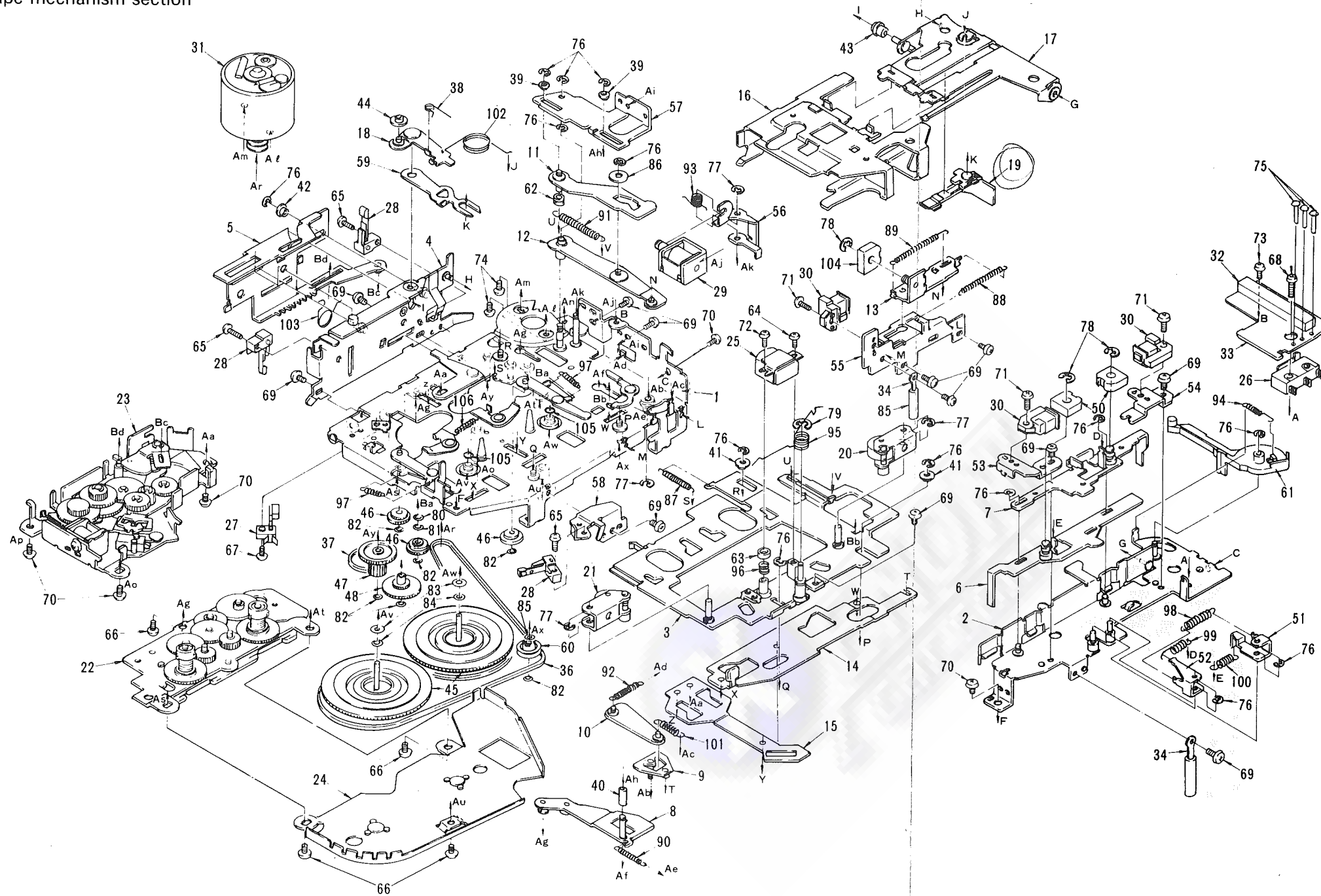




MECHANISM CONTROL P.W.B

EXPLODED VIEW • PARTS LIST:

©Tape mechanism section



REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
46	613-0006-02	FF gear	2
47	613-0011-03	Gear pulley	1
48	613-0012-03	Gear B	1
49	613-0017-02	Gear G	1
50	630-1198-03	Core	2
51	630-1443-03	FF lock plate	1
52	630-1444-03	REW lock plate	1
53	630-1445-01	Plunger base A	1
54	630-1446-01	Plunger base B	1
55	630-1447-01	Plunger base C	1
56	630-1459-01	Gear lock plate	1
57	630-1468-01	Shift guide plate	1
58	630-1474-02	Switch plate D	1
59	630-1478-01	Swing arm A	1
60	631-0370-00	Tension pulley	1
61	631-0377-02	Switch arm	1
62	632-1186-01	Hook sleeve	1
63	632-1206-00	Sleeve	1
64	714-2003-81	Machine screw (M2x3)	1
65	714-2006-81	Machine screw (M2x6)	3
66	714-2303-81	Machine screw (M2.3x3)	4
67	714-2304-11	Machine screw (M2.3x4)	1
68	714-2308-81	Machine screw (M2.3x8)	1
69	714-2603-81	Machine screw (M2.6x3)	11
70	714-2604-81	Machine screw (M2.6x4)	5
71	714-2606-11	Machine screw (M2.6x6)	3
72	716-0429-00	Screw (M2 P=0.25)	1
73	716-0479-00	Screw (M2.6x4)	1
74	716-0484-01	Screw (M2x2.5)	2
75	729-0018-00	Pin	3
76	743-1500-10	E-ring	14
77	743-2000-10	E-ring	4
78	743-2500-10	E-ring	3
79	743-3000-10	E-ring	1
80	745-0651-00	Washer	1
81	746-0617-00	Washer (φ2, t0.13)	1
82	746-0628-01	Washer (φ2, cut)	6
83	746-0688-01	Washer (Orange)	2
84	746-0691-00	Washer	2
85	746-0624-00	Washer	1
86	610-0106-01	Roller	1
87	750-2177-02	Spring	1
88	750-2178-02	Spring	1
89	750-2179-02	Spring	1
90	750-2180-00	Spring	1
91	750-2181-03	Spring	1
92	750-2182-01	Spring	1
93	750-2183-00	Spring	1
94	750-2184-01	Spring	1
95	750-2185-00	Spring	1
96	750-2186-00	Spring	1
97	750-2187-01	Spring	2
98	750-2189-01	Spring	1
99	750-2190-01	Spring	1
100	750-2191-01	Spring	1
101	750-2194-01	Spring	1
102	750-2195-02	Spring	1
103	750-2196-00	Spring	1
104	630-1692-00	Core	1
105	746-0718-01	Washer	2
106	750-2370-00	Spring	1
16	960-3382-04	Guide arm ass'y	1
17	960-3383-04	Pack guide ass'y	1
18	960-3384-02	Swing arm ass'y	1
19	960-3386-02	Pack stopper ass'y	1
20	960-3389-03	Roller F ass'y	1
21	960-3390-03	Roller R ass'y	1
22	960-3417-06	Reel base plate ass'y	1
23	960-3419-06	Loading base plate ass'y	1
24	960-3505-00	Flywheel plate ass'y	1
25	011-0274-00	Head	1
26	013-2690-03	Switch (S2)	1
27	013-3470-04	Switch (S1)	1
28	013-3714-00	Switch (S4, 5, 6)	3
29	015-0230-00	Plunger (SOL1)	1
30	015-0232-00	Plunger (SOL3, 4, 5)	3
31	960-3510-00	DC motor ass'y	1
32	074-0590-14	Outlet socket	1
33	099-7058-00	P.W.B	1
34	330-4896-00	Clamp	3
35	335-0833-01	Lead holder	2
36	602-0070-00	Belt	1
37	602-0071-02	Belt	1
38	750-2197-01	Spring	1
39	610-0107-01	Roller	2
40	610-0108-01	Roller	1
41	610-0109-01	Roller	2
42	610-0112-05	Roller	1
43	610-0113-00	Roller	1
44	610-0114-02	Roller	1
45	611-0063-01	Flywheel	2

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
1	960-3358-11	Deck plate ass'y	1
2	960-3362-07	Frame ass'y	1
3	960-3363-09	Head plate ass'y	1
4	960-3364-05	Side panel ass'y	1
5	960-3365-01	Eject plate ass'y	1
6	960-3366-03	REW plate ass'y	1
7	960-3367-03	FF plate ass'y	1
8	960-3374-03	Power plate ass'y	1
9	960-3375-02	Cam ass'y	1
10	960-3376-02	Cam plate ass'y	1
11	960-3377-01	Shift plate ass'y	1
12	960-3378-04	Lock plate ass'y	1
13	960-3379-02	Plunger plate ass'y	1
14	960-3380-03	Change plate ass'y	1
15	960-3381-03	Gear change plate ass'y	1

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
16	960-3382-04	Guide arm ass'y	1
17	960-3383-04	Pack guide ass'y	1
18	960-3384-02	Swing arm ass'y	1
19	960-3386-02	Pack stopper ass'y	1
20	960-3389-03	Roller F ass'y	1
21	960-3390-03	Roller R ass'y	1
22	960-3417-06	Reel base plate ass'y	1
23	960-3419-06	Loading base plate ass'y	1
24	960-3505-00	Flywheel plate ass'y	1
25	011-0274-00	Head	1
26	013-2690-03	Switch (S2)	1
27	013-3470-04	Switch (S1)	1
28	013-3714-00	Switch (S4, 5, 6)	3
29	015-0230-00	Plunger (SOL1)	1
30	015-0232-00	Plunger (SOL3, 4, 5)	3

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
31	960-3510-00	DC motor ass'y	1
32	074-0590-14	Outlet socket	1
33	099-7058-00	P.W.B	1
34	330-4896-00	Clamp	3
35	335-0833-01	Lead holder	2
36	602-0070-00	Belt	1
37	602-0071-02	Belt	1
38	750-2197-01	Spring	1
39	610-0107-01	Roller	2
40	610-0108-01	Roller	1
41	610-0109-01	Roller	2
42	610-0112-05	Roller	1
43	610-0113-00	Roller	1
44	610-0114-02	Roller	1
45	611-0063-01	Flywheel	2