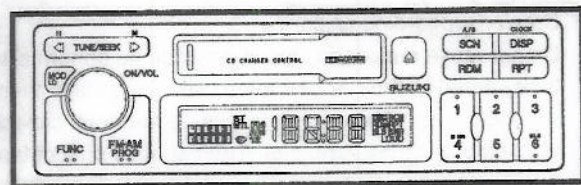


# Service Manual

FILE COPY



SUZUKI Automobile Genuine  
AM/FM Cassette Combination  
With CD Changer Control

Model **PS-1626D-A**  
(Genuine No.39101-65G00-000)

Model **PS-1626D-B**  
(Genuine No.39101-65D10-000)

## SPECIFICATIONS

### FM tuner section

Frequency range: 87.75MHz to 107.9MHz  
Usable sensitivity: 11dBf  
50dB quieting sensitivity: 17dBf  
Alternate channel selectivity: 75dB  
Stereo separation: 35dB(1kHz)  
Frequency response: 30Hz to 15kHz(±3dB)

### AM tuner section

Frequency range: 530kHz to 1,710kHz  
Usable sensitivity: 25  $\mu$ V

### Tape deck section

Channel separation: 45dB(1kHz)  
Wow & flutter: 0.06%(WRMS)  
Frequency response: 20Hz to 20kHz(Metal)  
Signal to noise ratio: Metal(70  $\mu$ s)  
Dolby NR B OFF: 53dB  
Dolby NR B ON: 63dB  
Frequency Response: Normal(120  $\mu$ s):  
30Hz to 18kHz (±3dB)  
Metal(70  $\mu$ s):  
30Hz to 20kHz (±3dB)

### Audio section

Maximum power output: 120W(30W×4ch)  
Continuous average power output: 12W×4, into 4  $\Omega$ , 1%THD

Bass control action: ±10dB(100Hz)  
Treble control action: ±10dB(10kHz)  
Line output: 0.7V(with A/C 1kHz, 10k  $\Omega$ )

### General

Power supply voltage: DC13.2V (10.8 to 15.6V allowable), negative ground  
Current consumption: Less than 10A  
Speaker impedance: 4  $\Omega$  (4  $\Omega$  to 8  $\Omega$  allowable)  
External dimensions(mm): 178(W)×50(H)×170(D)  
Weight: 1.45kg  
※ Specifications comply with EIA Standards.  
※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
※ "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.  
※ Specifications and design are subject to change without notice for further improvement.

## NOTE

We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

## COMPONENTS

PS-1626D-A/D-B

Main unit

## ■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back se-

curely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

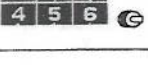
### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

## ■ ERROR DISPLAY

This unit is equipped with a number of self-diagnostic functions to protect the system.

If a problem should occur, the user is warned through various error displays.

Eliminate the problem using the procedure shown below.

| Error Display                                                                       | Procedure                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>This indicates that playback has been stopped automatically due to a rise in the temperature inside the CD changer or a rise in the surrounding temperature.</p> <p>→Lower the temprature around the CD canger mechanism and wait awhile.</p> |
|   | <p>This indicates that the battery in the CD changer has run out.</p>                                                                                                                                                                            |
|   | <p>This indicates that a problem has occurred with the CD canger's mechanism (for example, the disc can not be changed or ejected).</p> <p>→The CD canger mechanism is likely damaged.</p>                                                       |
|   | <p>This indicates that the pickup is out of focus during playback due to scratches on the disc etc.</p> <p>→Check the disc.</p>                                                                                                                  |
|   | <p>This indicates that the disc is upside down or that only the 8cm CD adaptor is loaded.</p> <p>→Check the disc.</p>                                                                                                                            |
|  | <p>This indicates that the cassette tape caught on something during loading or ejecting.</p> <p>→Eliminate the element causing the catching</p>                                                                                                  |

# 1. Outword Form : 80 pins QFP

## 2. Terminal Description

pin 1 : N.C. : IN : Not in use.  
pin 2 : N.C. : IN : Not in use.  
pin 3 : N.C. : IN : Not in use.  
pin 4 : AVSS : — : Ground terminal for A/D converter.  
pin 5 : N.C. : IN : Not in use.  
pin 6 : PLL CE : O : Chip enable signal output to PLL IC.  
pin 7 : AVREF 1 : — : Reference voltage input for internal D/A converter.  
pin 8 : PLL DI : IN : Serial data input of PLL.  
pin 9 : PLL DO : O : Serial data output of PLL.  
pin 10 : PLL SCK : O : Serial clock out of PLL.  
pin 11 : LCD SI : O : Serial data input from LCD driver.  
pin 12 : LCD SO : O : Serial data output to LCD driver.  
pin 13 : LCD SCK : O : Serial clock output to LCD driver.  
pin 14 : LCD CE : O : Chip enable signal output to LCD driver.  
pin 15 : N.C. : IN : Not in use.  
pin 16 : C-BUS SI : IN : Serial data input of C-BUS.  
pin 17 : C-BUS SO : O : Serial data output of C-BUS.  
pin 18 : C-BUS SCK : O : Serial clock output of C-BUS.  
pin 19 : BIT 3 : IN : Mechanism-mode detect. Ref. Table-1.  
pin 20 : BIT 1 : IN : Mechanism-mode detect. Ref. Table-1.  
pin 21 : BIT 2 : IN : Mechanism-mode detect. Ref. Table-1.  
pin 22 : REEL PLS : IN : Reel pulse input from cassette tape mechanism.  
pin 23 : TAPE IN : IN : "H"= Tape in.  
pin 24 : MTL SW : IN : "H"= Metal/Chrome tape.  
pin 25 : APC DET : IN : "L"= Non recorded part.  
pin 26 : N.C. : IN : Not in use.  
pin 27 : P MOTOR+ : O : Power motor control signal output. Ref. Tble2.  
pin 28 : P MOTOR- : O : Power motor control signal output. Ref. Tble2.  
pin 29 : MECHA ON : O : "H"= Mechanism ON.  
pin 30 : APC SENS : O : APC sensitivity select. "L"=FF/REW.  
pin 31 : FWD/REV : O : "H"= Forward. "L"=reverse.  
pin 32 : DOLBY ON : O : "H"= Dolby ON.  
pin 33 : VSS : — : Ground.  
pin 34 : MECH MTR : O : "H"= PLAY/FF/REW, "L" = other.  
pin 35 : N.C. : IN : Not in use.  
pin 36 : N.C. : IN : Not in use.  
pin 37 : REM+5V : O : "L"= Power supply circuit(REM+5V) ON.  
pin 38 : N.C. : IN : Not in use.  
pin 39 : N.C. : IN : Not in use.  
pin 40 : SYS MUTE : O : "H"= System mute ON.  
pin 41 : B/L CONT : O : LCD-back-light control. "H" = ON.  
pin 42 : N.C. : IN : Not in use.  
pin 43 : REM+B : O : "H"= Power ON.  
pin 44 : MAST ON : O : Master-ON-signal output.  
pin 45 : SLAVE ON : IN : Slave-ON-signal input. Negative logic.  
pin 46 : E.VOL SCK : O : Clock output to Electrical volume IC.  
pin 47 : E.VOL DO : O : Serial data output to Electrical volume IC.  
pin 48 : N.C. : IN : Not in use.  
pin 49 : N.C. : IN : Not in use.  
pin 50 : BEEP : O : Beep out.  
pin 51 : C-BUS SRQ : IN : Service Request signal input. Negative logic.  
pin 52 : ACC CONT : O : Slave-microcomputer-power-ON signal output.  
pin 53 : N.C. : IN : Not in use.  
pin 54 : N.C. : IN : Not in use.

pin 55 : FM ST DET : IN : FM stereo detect signal input.  
pin 56 : N.C. : IN : Not in use.  
pin 57 : N.C. : IN : Not in use.  
pin 58 : VOL-D.P L : IN : Left channel pulse input of Rotary-volume-switch.  
pin 59 : VOL-D.P R : IN : Right channel pulse input of Rotary-volume-switch.  
pin 60 : RESET : IN : Reset input. Negative logic.  
pin 61 : N.C. : IN : Not in use.  
pin 62 : B/U DET : IN : Backup detect input. "L" = Backup OFF.  
pin 63 : ACC IN : IN : "H"= ACC ON.  
pin 64 : TAPE EJCT : IN : "L"= Eject switch ON.  
pin 65 : N.C. : IN : Not in use.  
pin 66 : T-BASE : IN : Time base input from PLL IC.  
pin 67 : N.C. : IN : Not in use.  
pin 68 : VDD : — : Power supply voltage.  
pin 69 : X-OUT : O : Crystal connection.  
pin 70 : X-IN : IN : Crystal connection.  
pin 71 : IC : — : Connect to ground.  
pin 72 : XT2 : — : Not in use.  
pin 73 : N.C. : IN : Not in use.  
pin 74 : AVDD : — : Power supply voltage input for A/D-converter.  
pin 75 : AVREF0 : — : Reference voltage input for A/D-converter.  
pin 76 : N.C. : IN : Not in use.  
pin 77 : J/E/A : IN : Destination select voltage input.  
VREF0=Japan, 1/2VREF0=EXP, GND=USA  
pin 78 : POW/EJCT : IN : Switch detect input.  
GND=EJECT SW, 1/7VREF0=POWER SW  
pin 79 : N.C. : IN : Not in use.  
pin 80 : N.C. : IN : Not in use.

Table1

| Mechnism mode    | BIT1 | BIT2 | BIT3 |
|------------------|------|------|------|
| eject            | H    | H    | H    |
| loading          | H    | H    | L    |
| stop             | L    | H    | L    |
| Fwd.FF(Rev.Rew.) | L    | L    | H    |
| Fwd.Rew.(Rev.FF) | H    | L    | L    |
| Fwd.Ply.         | H    | L    | H    |
| Rev.Ply.         | L    | H    | H    |

Table2

| operation          | pin27 | pin28 |
|--------------------|-------|-------|
| loading head back  | H     | L     |
| eject head forward | L     | H     |
| keep mode          | H     | H     |
| off                | L     | L     |

## ADJUSTMENT

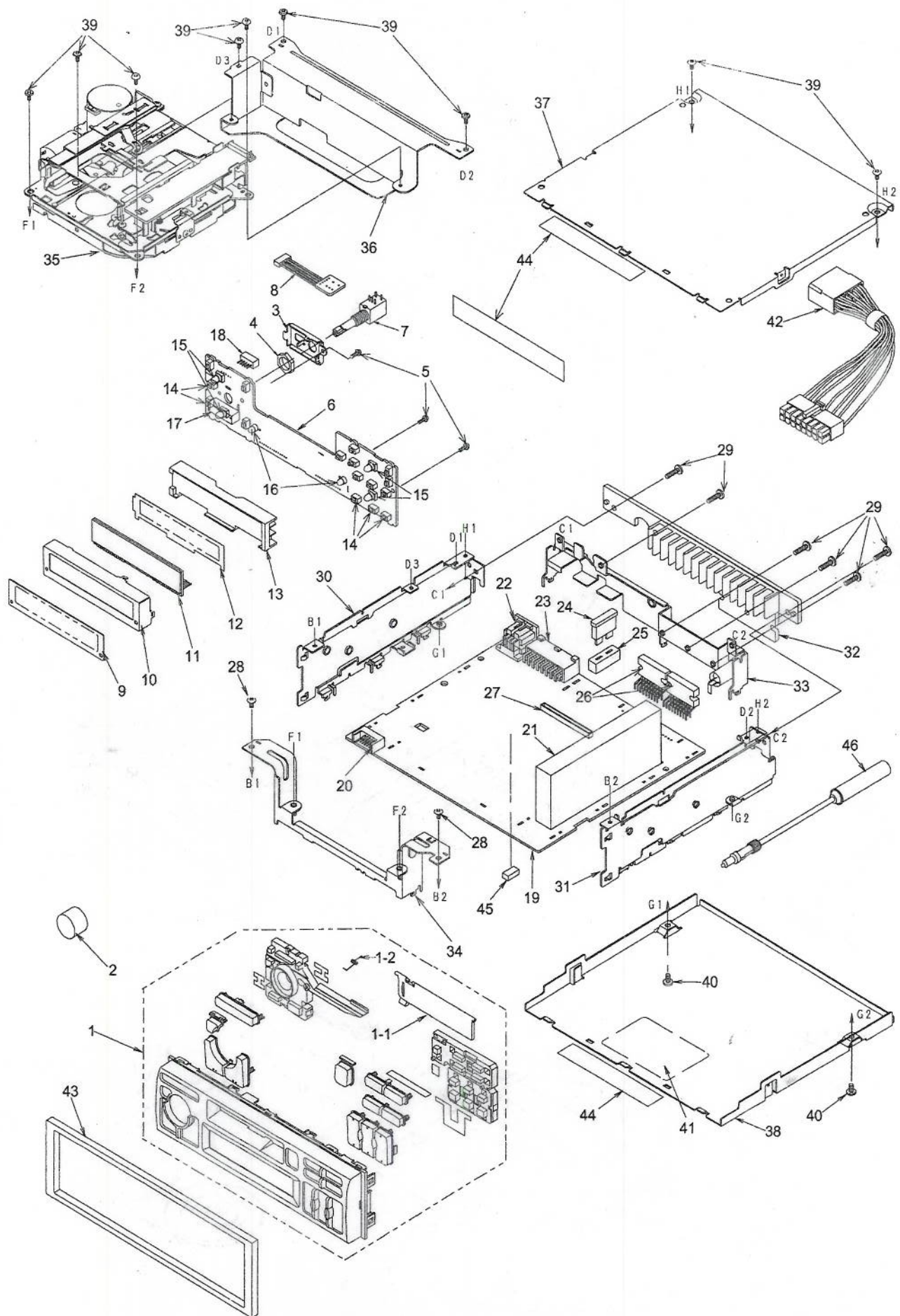
| Item                 | Procedure                                                                                                                                                                                                                                     | Measuring instrument                |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| FM noise convergence | 1. Input the 98.1MHz/55dB $\mu$ (400Hz 22.5kHz Div.) SSG signal.<br>2. Set the output to 0dBm(0.775V) by main volume.<br>3. Adjust VR101 so that the output level is -18dB when the output of SSG is set to -20dB $\mu$ .                     | SSG<br>Milli-volt meter             |
| FM SD                | 1. Input the 98.1MHz, 26dB $\mu$ (400Hz, 22.5kHz Div.) SSG signal.<br>2. Shorting the TP701, TP702 at a moment. Then unit goes to test mode. ("FM" indicator is blinking.)<br>3. Adjust the "ST" indicator of LCD display to appear by VR102. | SSG                                 |
| AM SD                | 1. Input the 1000kHz, 33dB $\mu$ (400Hz, MOD 30%) SSG signal.<br>2. Shorting the TP701, TP702 at a moment. Then unit goes to test mode. ("AM" indicator is blinking.)<br>3. Adjust the "ST" indicator of LCD display to appear by VR103.      | SSG                                 |
| Clock accuracy       | 1. Connect the Chronometer to TP111.<br>2. Adjust TC101 so that an output of TP101 becomes $1.5 \pm 0.5$ Sec./day.                                                                                                                            | Chronometer                         |
| Dolby level          | 1. Playback a Dolby level test tape (400Hz, 200nWb/m) and connect the Milli-volt meter to TP201(L)/TP202(R).<br>2. Adjust VR1(L)/VR2(R) to obtain an output of TP201(L)/TP202(R) is $300\text{mV} \pm 1\text{dB}$ . (Dolby SW: off)           | Dolby test tape<br>Milli-volt meter |

## EXPLODED VIEW • PARTS LIST

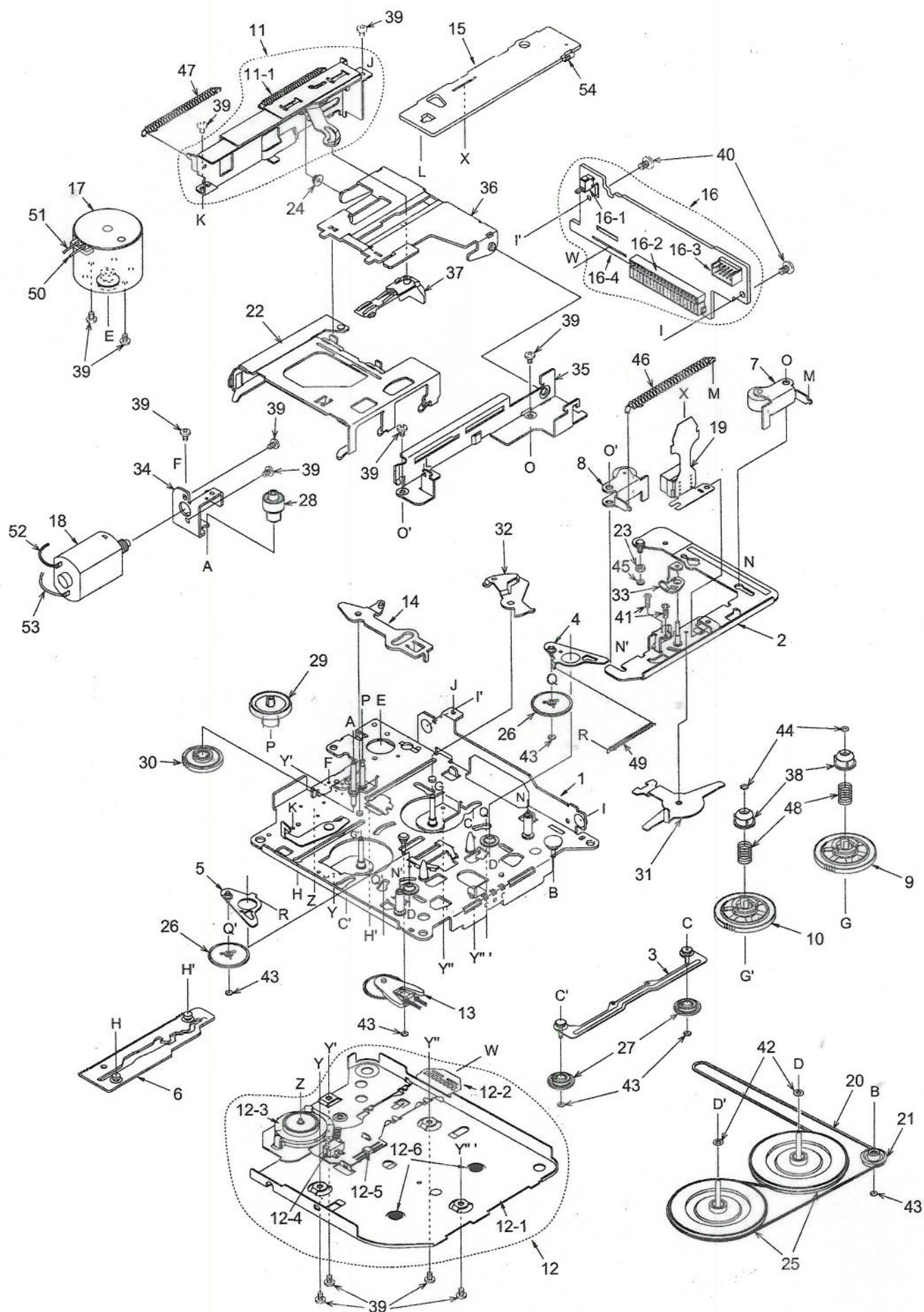
Note) Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

| NO. | PART NO.    | DESCRIPTION                     | Q'TY | NO. | PART NO.                   | DESCRIPTION                                              | Q'TY |
|-----|-------------|---------------------------------|------|-----|----------------------------|----------------------------------------------------------|------|
| 1   | 940-7852-01 | ESCUTCHEON ASSY                 | 1    | 23  | 074-1023-16                | OUTLET SOCKET(16P)                                       | 1    |
| 1-1 | 320-0529-06 | DUSTPROOF COVER                 | 1    | 24  | 060-0057-56                | AUTO FUSE(10A)                                           | 1    |
| 1-2 | 750-2626-00 | SPRING                          | 1    | 25  | 335-3086-00                | FUSE HOLDER                                              | 1    |
| 2   | 380-5426-00 | KNOB                            | 1    | 26  | 051-2009-00                | POWER IC                                                 | 2    |
| 3   | 331-2373-01 | VR HOLDER                       | 1    | 27  | 076-0461-20                | PLUG                                                     | 1    |
| 4   | 722-0368-00 | NUT                             | 1    | 28  | 714-2606-81                | MACHINE SCREW(M2.6X6)                                    | 2    |
| 5   | 716-0778-00 | WAVE SCREW                      | 3    | 29  | 714-2610-81                | MACHINE SCREW(M2.6X10)                                   | 6    |
| 6   | 039-1226-00 | SW PWB<br>(WITHOUT COMPONENT)   | 1    | 30  | 305-0250-01                | SIDE PLATE(L)                                            | 1    |
| 7   | 016-0000-07 | VR(ON/VOL)                      | 1    | 31  | 305-0251-01                | SIDE PLATE(R)                                            | 1    |
| 8   | 854-2930-00 | EXTENTION LEAD                  | 1    | 32  | 313-1664-10                | HEAT SINK                                                | 1    |
| 9   | 373-0877-00 | DIAL COVER                      | 1    | 33  | 331-1883-00                | REAR PLATE                                               | 1    |
| 10  | 331-1884-01 | LCD HOLDER                      | 1    | 34  | 309-0675-00                | FRONT PLATE                                              | 1    |
| 11  | 379-1057-31 | INDICATOR                       | 1    | 35  | 930-0790-01                | TAPE MECHANISM                                           | 1    |
| 12  | 347-5341-01 | FILM                            | 1    | 36  | 331-1946-01                | MECHA.BRACKET                                            | 1    |
| 13  | 335-5153-00 | ILLUMI PLATE                    | 1    | 37  | 310-1603-00                | UPPER CASE                                               | 1    |
| 14  | 013-6302-50 | PUSH SWITCH                     | 16   | 38  | 311-1681-03                | LOWER CASE                                               | 1    |
| 15  | 017-0433-03 | PILOT LAMP(14V40mA)             | 4    | 39  | 714-2606-81                | MACHINE SCREW(M2.6X6)                                    | 9    |
| 16  | 017-0429-01 | PILOT LAMP(8V105mA)             | 2    | 40  | 716-0878-00                | IT SCREW                                                 | 2    |
| 17  | 074-1105-14 | OUTLET SOCKET                   | 1    | 41  | 286-9026-00<br>286-9075-00 | SETPLATE(D-A)<br>SETPLATE(D-B)                           | 1    |
| 18  | 076-0312-05 | PLUG                            | 1    | 42  | 854-8203-01<br>854-8203-02 | EXTENSION LEAD(D-A l=25cm)<br>EXTENSION LEAD(D-B l=17cm) | 1    |
| 19  | 039-1225-00 | MAIN PWB<br>(WITHOUT COMPONENT) | 1    | 43  | 383-0621-00                | OUTER ESCUTCHEON                                         | 1    |
| 20  | 076-0515-14 | PLUG                            | 1    | 44  | 353-0448-00                | SHADE                                                    | 3    |
| 21  | 880-2079G   | TUNER PACK(AM/FM-MPX)           | 1    | 45  | 345-4220-00                | RUBBER                                                   | 1    |
| 22  | 074-1126-00 | DIN SOCKET(13P)                 | 1    | 46  | 093-0748-01                | ANTENNA CORD(D-A)                                        | 1    |



# Tape mechanism section



Note) Several different parts of the same reference number are alternative parts.  
One of those parts is used in the set.

| NO.  | PART NO.    | DESCRIPTION                       | Q'TY | NO. | PART NO.    | DESCRIPTION        | Q'TY |
|------|-------------|-----------------------------------|------|-----|-------------|--------------------|------|
| 1    | 960-4294-14 | DECK PLATE ASSY                   | 1    | 22  | 606-0101-08 | PACK GUIDE         | 1    |
| 2    | 960-4261-05 | HEAD PLATE ASSY                   | 1    | 23  | 610-0342-01 | HEAD-P-ROLLER      | 1    |
| 3    | 960-4262-03 | FF/REW-P-ASSY                     | 1    | 24  | 610-0343-00 | GUIDE-A-ROLLER     | 1    |
| 4    | 960-4263-03 | IDLER-P-ASSY L                    | 1    | 25  | 611-0091-02 | FLYWHEEL           | 2    |
| 5    | 960-4264-03 | IDLER-P-ASSY R                    | 1    | 26  | 613-0662-00 | IDLER GEAR         | 2    |
| 6    | 960-4266-05 | MODE PLATE ASSY                   | 1    | 27  | 613-0286-02 | FF/REW GEAR        | 2    |
| 7    | 960-4269-05 | ROLLER ASSY F                     | 1    | 28  | 613-0288-01 | HELIACAL GEAR      | 1    |
| 8    | 960-4270-05 | ROLLER ASSY R                     | 1    | 29  | 613-0289-01 | GEAR A             | 1    |
| 9    | 960-4348-03 | REEL ASSY F                       | 1    | 30  | 613-0337-00 | POWER GEAR         | 1    |
| 10   | 960-4349-03 | REEL ASSY R                       | 1    | 31  | 630-2597-01 | CHANGE LINK        | 1    |
| 11   | 960-4298-09 | EJECT SUB ASSY                    | 1    | 32  | 630-2598-05 | EJECT LINK         | 1    |
| 11-1 | 750-2948-01 | SWITCH PLATE SPRING               | 1    | 33  | 630-2600-01 | ADJUST LINK        | 1    |
| 12   | 960-4338-07 | BOTTOM SUB ASSY                   | 1    | 34  | 630-2601-02 | MOTOR PLATE        | 1    |
| 12-1 | 960-4295-02 | BOTTOM-P-ASSY                     | 1    | 35  | 630-2626-05 | PWB FLAME          | 1    |
| 12-2 | 099-9926-01 | FLEXIBLE PWB                      | 1    | 36  | 630-2605-02 | GUIDE ARM          | 1    |
| 12-3 | 013-3951-11 | SWITCH(MODE)                      | 1    | 37  | 631-1992-02 | PACK STOPPER       | 1    |
| 12-4 | 013-3953-01 | SWITCH(METAL)                     | 1    | 38  | 631-1993-01 | SLIDE BUSH         | 2    |
| 12-5 | 051-1776-00 | IC                                | 1    | 39  | 716-0484-00 | SCREW(M2X2.5)      | 13   |
| 12-6 | 746-0767-00 | WASHER                            | 2    | 40  | 716-1676-00 | PWB SCREW(M2.6X6)  | 2    |
| 13   | 960-4282-06 | DETECT SUB ASSY                   | 1    | 41  | 716-0833-10 | AZIMUTH SCREW      | 2    |
| 14   | 960-4301-02 | PLATE LINK ASSY                   | 1    | 42  | 746-0624-00 | WASHER             | 2    |
| 15   | 039-0512-00 | SIDE PWB<br>(WITHOUT COMPONENT)   | 1    | 43  | 746-0724-00 | WASHER             | 6    |
| 16   | 990-0713-00 | REAR PWB ASSY<br>(WITH COMPONENT) | 1    | 44  | 746-0761-00 | WASHER             | 2    |
| 16-1 | 013-3906-00 | SWITCH(TAPE IN)                   | 1    | 45  | 746-0762-00 | WASHER             | 1    |
| 16-2 | 074-1104-20 | OUTLET SOCKET(20P)                | 1    | 46  | 750-2946-02 | PINCH SPRING       | 1    |
| 16-3 | 076-0368-10 | PLUG(10P)                         | 1    | 47  | 750-2947-03 | EJECT-P-SPRING     | 1    |
| 16-4 | 039-0489-00 | REAR PWB                          | 1    | 48  | 750-2949-00 | SLIDE SPRING       | 2    |
| 17   | SMA-130-100 | MAIN MOTOR ASSY                   | 1    | 49  | 750-3017-02 | IDLER-P-SPRING     | 1    |
| 18   | SMA-131-100 | POWER MOTOR ASSY                  | 1    | 50  | 800-4910-60 | WIRE(BLK)          | 1    |
| 19   | 011-0307-34 | HEAD                              | 1    | 51  | 802-4911-60 | WIRE(RED)          | 1    |
| 20   | 602-0118-00 | BELT                              | 1    | 52  | 806-4914-60 | WIRE(BLU)          | 1    |
| 21   | 604-0046-00 | TENSION PULLEY                    | 1    | 53  | 809-4914-60 | WIRE(WHT)          | 1    |
|      |             |                                   |      | 54  | 074-0898-10 | OUTLET SOCKET(10P) | 1    |

## ■ ELECTRICAL PARTS LIST

### Main PWB section(B1)

Note) Several different parts of the same reference number are alternative parts.  
One of those parts is used in the set.

| REF No. | PART No.    | DESCRIPTION        | REF No. | PART No.    | DESCRIPTION     | REF No. | PART No.    | DESCRIPTION    |
|---------|-------------|--------------------|---------|-------------|-----------------|---------|-------------|----------------|
| BL101   | 880-2079G   | AM/FM TUNER        | C117    | 176-2201-00 | 22pF CH         | C134    | 178-1022-78 | 1000pF         |
| C101    | 176-1801-00 | 18pF CH            | C118    | 184-1073-22 | 10V100 $\mu$ F  | C135    | 178-1022-78 | 1000pF         |
| C102    | 178-1032-78 | 0.01 $\mu$ F       | C119    | 178-2232-78 | 0.022 $\mu$ F   | C136    | 176-2701-00 | 27pF CH        |
| C103    | 171-1032-06 | 0.01 $\mu$ F Y5R K | C120    | 183-1063-32 | 16V10 $\mu$ F   | C137    | 176-2701-00 | 27pF CH        |
| C104    | 181-3353-62 | 50V3.3 $\mu$ F     | C121    | 178-1032-78 | 0.01 $\mu$ F    | C138    | 183-4753-52 | 35V4.7 $\mu$ F |
| C105    | 184-3373-22 | 10V330 $\mu$ F     | C122    | 182-1073-32 | 16V100 $\mu$ F  | C139    | 176-1811-00 | 180pF CH       |
| C106    | 184-1073-22 | 10V100 $\mu$ F     | C123    | 178-3932-78 | 0.039 $\mu$ F   | C140    | 176-1811-00 | 180pF CH       |
| C107    | 178-1042-78 | 0.1 $\mu$ F        | C124    | 178-3932-78 | 0.039 $\mu$ F   | C145    | 183-4753-52 | 35V4.7 $\mu$ F |
| C108    | 183-1073-12 | 6.3V100 $\mu$ F    | C125    | 172-1241-11 | 0.12 $\mu$ F    | C146    | 183-2263-12 | 6.3V22 $\mu$ F |
| C109    | 178-1032-78 | 0.01 $\mu$ F       | C126    | 178-3932-78 | 0.039 $\mu$ F   | C147    | 183-2263-12 | 6.3V22 $\mu$ F |
| C110    | 176-1011-00 | 100pF CH           | C127    | 183-1063-32 | 16V10 $\mu$ F   | C148    | 178-6832-78 | 0.068 $\mu$ F  |
| C111    | 176-1011-00 | 100pF CH           | C128    | 183-2253-62 | 50V2.2 $\mu$ F  | C149    | 178-6832-78 | 0.068 $\mu$ F  |
| C112    | 176-1011-00 | 100pF CH           | C129    | 183-2243-62 | 50V0.22 $\mu$ F | C150    | 178-5632-78 | 0.056 $\mu$ F  |
| C113    | 176-1011-00 | 100pF CH           | C130    | 183-2243-62 | 50V0.22 $\mu$ F | C151    | 178-5632-78 | 0.056 $\mu$ F  |
| C114    | 176-1801-00 | 18pF CH            | C131    | 183-2253-62 | 50V2.2 $\mu$ F  | C152    | 178-4722-78 | 4700nF         |

| REF No. | PART No.    | DESCRIPTION | REF No. | PART No.    | DESCRIPTION         | REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|---------|-------------|---------------------|---------|-------------|-------------|
| C155    | 178-4722-78 | 4700pF      | IC103   | 051-0160-06 | SN74LS07NS          | R125    | 117-1031-10 | 1/10W 10kΩ  |
| C156    | 183-1063-32 | 16V10 μF    | IC104   | 051-5008-00 | M62419FP            | R126    | 111-1031-91 | 1/4WS 10kΩ  |
| C157    | 183-1073-12 | 6.3V100 μF  | IC105   | 052-3131-30 | μPD78056FGC-A05-8BT | R127    | 114-2291-11 | 1W 2.2Ω     |
| C158    | 172-1041-11 | 0.1 μF      | IC106   | 051-0422-51 | NJM4558D            | R128    | 111-2221-91 | 1/4WS 2.2kΩ |
| C159    | 183-4763-12 | 6.3V47 μF   | IC107   | 051-0869-05 | MB3771PF(-G)        | R129    | 111-2221-91 | 1/4WS 2.2kΩ |
| C160    | 178-1032-78 | 0.01 μF     | IC108   | 051-2009-00 | TDA8561Q            | R130    | 117-1021-10 | 1/10W 1kΩ   |
| C161    | 178-1022-78 | 1000pF      | IC109   | 051-2009-00 | TDA8561Q            | R131    | 117-1021-10 | 1/10W 1kΩ   |
| C162    | 176-1011-00 | 100pF CH    | J101    | 074-1126-00 | DIN 13P             | R132    | 117-1021-10 | 1/10W 1kΩ   |
| C163    | 176-1011-00 | 100pF CH    | L101    | 010-2230-69 | 5.6 μH              | R133    | 117-1021-10 | 1/10W 1kΩ   |
| C164    | 183-1066-31 | 16V10 μF NP | L102    | 010-2230-64 | 2.2 μH              | R134    | 117-1021-10 | 1/10W 1kΩ   |
| C166    | 183-1066-31 | 16V10 μF NP | L103    | 010-2230-88 | 220 μH              | R135    | 117-1021-10 | 1/10W 1kΩ   |
| C168    | 178-4732-78 | 0.047 μF    | L104    | 010-2330-34 | 150 μH J            | R136    | 117-1021-10 | 1/10W 1kΩ   |
| C169    | 178-4732-78 | 0.047 μF    | L105    | 010-2230-76 | 22 μH               | R137    | 117-1031-10 | 1/10W 10kΩ  |
| C170    | 182-4753-52 | 35V4.7 μF   | P101    | 854-4232-00 | EXTENSION(8P)       | R138    | 117-1031-10 | 1/10W 10kΩ  |
| C171    | 182-4753-52 | 35V4.7 μF   | P101    | 076-0461-20 | 20P                 | R139    | 117-6821-10 | 1/10W 6.8kΩ |
| C172    | 182-4753-52 | 35V4.7 μF   | P102    | 854-4233-00 | EXTENSION(4P)       | R140    | 117-1531-10 | 1/10W 15kΩ  |
| C173    | 182-4753-52 | 35V4.7 μF   | P104    | 076-0515-14 | 14P                 | R141    | 117-2731-10 | 1/10W 27kΩ  |
| C174    | 182-4753-52 | 35V4.7 μF   | P105    | 854-2227-00 | EXTENSION(2P)       | R142    | 117-1831-10 | 1/10W 18kΩ  |
| C175    | 178-4712-78 | 470pF       | P111    | 074-1023-16 | SOCKET              | R143    | 117-1831-10 | 1/10W 18kΩ  |
| C176    | 178-4712-78 | 470pF       | Q101    | 102-2712-51 | 2SC2712G.L          | R144    | 117-2731-10 | 1/10W 27kΩ  |
| C177    | 178-4712-78 | 470pF       | Q102    | 101-1240-50 | 2SB1240QR           | R145    | 117-1531-10 | 1/10W 15kΩ  |
| C178    | 178-4712-78 | 470pF       | Q103    | 100-1048-50 | 2SA1048Y,GR         | R146    | 117-6821-10 | 1/10W 6.8kΩ |
| C179    | 183-4763-32 | 16V47 μF    | Q104    | 102-2712-51 | 2SC2712G.L          | R147    | 111-4721-91 | 1/4WS 4.7kΩ |
| C180    | 184-3383-32 | 16V3300 μF  | Q105    | 100-1428-00 | 2SA1428             | R148    | 111-4721-91 | 1/4WS 4.7kΩ |
| C181    | 184-1073-32 | 16V100 μF   | Q106    | 125-2004-06 | RN1406              | R149    | 117-4331-10 | 1/10W 43kΩ  |
| C182    | 172-1041-11 | 0.1 μF      | Q107    | 100-1431-00 | 2SA1431             | R150    | 117-4331-10 | 1/10W 43kΩ  |
| C183    | 184-4773-12 | 6.3V470 μF  | Q108    | 125-2004-06 | RN1406              | R151    | 117-1241-10 | 1/10W 120kΩ |
| C184    | 183-1063-32 | 16V10 μF    | Q109    | 125-0002-02 | RN2402              | R152    | 117-1241-10 | 1/10W 120kΩ |
| C185    | 183-2263-32 | 16V22 μF    | Q113    | 125-0002-03 | RN2403              | R153    | 117-1031-10 | 1/10W 10kΩ  |
| C186    | 183-1063-32 | 16V10 μF    | Q114    | 125-0002-03 | RN2403              | R154    | 117-1031-10 | 1/10W 10kΩ  |
| C188    | 178-1032-78 | 0.01 μF     | Q115    | 125-2004-06 | RN1406              | R166    | 117-6821-10 | 1/10W 6.8kΩ |
| C189    | 183-4753-52 | 35V4.7 μF   | Q116    | 125-2004-03 | RN1403              | R167    | 117-6821-10 | 1/10W 6.8kΩ |
| C190    | 183-4753-52 | 35V4.7 μF   | Q117    | 125-2004-02 | RN1402              | R168    | 117-2231-10 | 1/10W 22kΩ  |
| C191    | 183-4763-32 | 16V47 μF    | Q118    | 103-1858-50 | 2SD1858Q.R          | R169    | 117-1031-10 | 1/10W 10kΩ  |
| C192    | 183-1063-32 | 16V10 μF    | Q119    | 103-1858-50 | 2SD1858Q.R          | R170    | 117-3331-10 | 1/10W 33kΩ  |
| C193    | 178-1022-78 | 1000pF      | Q120    | 102-2712-00 | 2SC2712             | R171    | 117-3331-10 | 1/10W 33kΩ  |
| C194    | 178-1022-78 | 1000pF      | Q122    | 125-0002-03 | RN2403              | R172    | 117-1031-10 | 1/10W 10kΩ  |
| C197    | 178-2232-78 | 0.022 μF    | Q123    | 102-2712-00 | 2SC2712             | R173    | 111-1011-91 | 1/4WS 100Ω  |
| C198    | 178-1042-78 | 0.1 μF      | Q124    | 125-2004-03 | RN1403              | R174    | 117-4791-10 | 1/10W 4.7Ω  |
| C199    | 178-1042-78 | 0.1 μF      | Q125    | 102-2712-00 | 2SC2712             | R179    | 117-1031-10 | 1/10W 10kΩ  |
| C200    | 178-1022-78 | 1000pF      | Q126    | 125-0002-02 | RN2402              | R180    | 117-1031-10 | 1/10W 10kΩ  |
| C201    | 176-1011-00 | 100pF CH    | Q127    | 101-1240-50 | 2SB1240QR           | R181    | 117-1031-10 | 1/10W 10kΩ  |
| C202    | 178-1032-78 | 0.01 μF     | Q128    | 125-2004-06 | RN1406              | R183    | 117-1031-10 | 1/10W 10kΩ  |
| C301    | 178-1042-78 | 0.1 μF      | Q129    | 125-2004-02 | RN1402              | R184    | 117-1031-10 | 1/10W 10kΩ  |
| D101    | 001-0377-46 | MA4091L     | Q130    | 103-1858-50 | 2SD1858Q.R          | R185    | 117-1031-10 | 1/10W 10kΩ  |
| D102    | 001-0466-00 | S5688B      | Q131    | 103-1858-50 | 2SD1858Q.R          | R186    | 117-1031-10 | 1/10W 10kΩ  |
| D103    | 001-0516-00 | MA111       | Q132    | 101-1240-50 | 2SB1240QR           | R188    | 117-1031-10 | 1/10W 10kΩ  |
| D104    | 001-0377-38 | MA4068M     | Q133    | 102-2712-51 | 2SC2712G.L          | R189    | 117-1031-10 | 1/10W 10kΩ  |
| D105    | 001-0516-00 | MA111       | Q134    | 100-1048-50 | 2SA1048Y,GR         | R191    | 117-1031-10 | 1/10W 10kΩ  |
| D106    | 001-0516-00 | MA111       | Q135    | 103-1858-50 | 2SD1858Q.R          | R193    | 117-1041-10 | 1/10W 100kΩ |
| D107    | 001-0516-00 | MA111       | R101    | 117-2221-10 | 1/10W 2.2kΩ         | R194    | 111-1221-91 | 1/4WS 1.2kΩ |
| D108    | 001-0377-23 | MA4043M     | R102    | 117-2221-10 | 1/10W 2.2kΩ         | R197    | 117-4331-10 | 1/10W 43kΩ  |
| D109    | 001-0377-46 | MA4091L     | R103    | 117-1031-10 | 1/10W 10kΩ          | R198    | 111-1021-91 | 1/4WS 1kΩ   |
| D110    | 001-0516-00 | MA111       | R104    | 117-1031-10 | 1/10W 10kΩ          | R199    | 117-8231-10 | 1/10W 82kΩ  |
| D111    | 001-0377-29 | MA4051M     | R105    | 117-4721-10 | 1/10W 4.7kΩ         | R200    | 111-3391-91 | 1/4WS 3.3Ω  |
| D112    | 001-0377-43 | MA4082L     | R106    | 117-1221-10 | 1/10W 1.2kΩ         | R201    | 111-3391-91 | 1/4WS 3.3Ω  |
| D113    | 001-0516-00 | MA111       | R107    | 117-1221-10 | 1/10W 1.2kΩ         | R202    | 117-6831-10 | 1/10W 68kΩ  |
| D114    | 001-0377-40 | MA4075L     | R108    | 111-3311-91 | 1/4WS 330Ω          | R203    | 117-1041-10 | 1/10W 100kΩ |
| D115    | 001-0466-00 | S5688B      | R109    | 117-1021-10 | 1/10W 1kΩ           | R204    | 117-1041-10 | 1/10W 100kΩ |
| D116    | 001-0377-46 | MA4091L     | R110    | 117-8221-10 | 1/10W 8.2kΩ         | R205    | 117-2231-10 | 1/10W 22kΩ  |
| D117    | 001-0516-00 | MA111       | R111    | 111-1221-91 | 1/4WS 1.2kΩ         | R206    | 117-2231-10 | 1/10W 22kΩ  |
| D119    | 001-0466-00 | S5688B      | R112    | 117-4791-10 | 1/10W 4.7Ω          | R207    | 111-2231-91 | 1/4WS 22kΩ  |
| D120    | 001-0334-30 | RL202       | R113    | 117-1031-10 | 1/10W 10kΩ          | R208    | 117-5621-10 | 1/10W 5.6kΩ |
| D121    | 001-0466-00 | S5688B      | R114    | 111-2221-91 | 1/4WS 2.2kΩ         | R209    | 117-1031-10 | 1/10W 10kΩ  |
| D122    | 001-0503-32 | HZS6A3L     | R115    | 111-2221-91 | 1/4WS 2.2kΩ         | R210    | 117-1021-10 | 1/10W 1kΩ   |
| D123    | 001-0466-00 | S5688B      | R116    | 111-2221-91 | 1/4WS 2.2kΩ         | R211    | 117-1031-10 | 1/10W 10kΩ  |
| D124    | 001-0454-01 | MA700A      | R118    | 117-2231-10 | 1/10W 22kΩ          | R212    | 117-1031-10 | 1/10W 10kΩ  |
| D125    | 001-0454-01 | MA700A      | R119    | 111-1221-91 | 1/4WS 1.2kΩ         | R213    | 111-4721-91 | 1/4WS 4.7kΩ |
| F101    | 060-0057-06 | 10A         | R120    | 117-1031-10 | 1/10W 10kΩ          | R214    | 111-4721-91 | 1/4WS 4.7kΩ |
| IC101   | 051-1887-05 | LC72191MHS  | R121    | 117-2221-10 | 1/10W 2.2kΩ         | R215    | 111-4721-91 | 1/4WS 4.7kΩ |
| IC102   | 051-1014-35 | MC13591M    | R122    | 117-1031-10 | 1/10W 10kΩ          | R216    | 111-4721-91 | 1/4WS 4.7kΩ |
| IC102   | 051-1014-05 | TA7291F     |         |             |                     | R217    | 111-4711-91 | 1/4WS 470Ω  |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R220    | 111-3391-91 | 1/4WS 3.3Ω  |
| R221    | 111-4711-91 | 1/4WS 470Ω  |
| R222    | 117-1031-10 | 1/10W 10kΩ  |
| R223    | 111-1221-91 | 1/4WS 1.2kΩ |
| R224    | 117-4731-10 | 1/10W 47kΩ  |
| R225    | 117-1031-10 | 1/10W 10kΩ  |
| R226    | 117-4721-10 | 1/10W 4.7kΩ |
| R227    | 117-4721-10 | 1/10W 4.7kΩ |
| R228    | 117-1031-10 | 1/10W 10kΩ  |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R229    | 111-2291-81 | 1/2WS 2.2Ω  |
| R230    | 111-1001-81 | 1/2WS 10Ω   |
| R231    | 111-2291-81 | 1/2WS 2.2Ω  |
| R232    | 117-1031-10 | 1/10W 10kΩ  |
| R233    | 111-2221-91 | 1/4WS 2.2kΩ |
| R236    | 117-1541-10 | 1/10W 150kΩ |
| R238    | 111-2221-91 | 1/4WS 2.2kΩ |
| R301    | 117-1811-10 | 1/10W 180Ω  |
| R999    | 111-2221-91 | 1/4WS 2.2kΩ |

| REF No. | PART No.    | DESCRIPTION   |
|---------|-------------|---------------|
| SUP101  | 060-0122-10 | DSP-201M-S00B |
| T101    | 009-0658-00 | 0.7mH         |
| TC101   | 004-1580-10 | 30pF GRN      |
| VR101   | 012-5203-57 | 22kΩ          |
| VR102   | 012-5203-56 | 10kΩ          |
| VR103   | 012-5203-63 | 470kΩ         |
| X101    | 061-1066-00 | 7.2MHz        |
| X102    | 060-0130-01 | 4.19MHz       |
| X103    | 060-0100-01 | CB13PA-215    |

#### SW PWB section(B2)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| C701    | 178-2242-78 | 0.22 μF     |
| C702    | 042-0416-02 | 10V10 μF    |
| C703    | 178-1042-78 | 0.1 μF      |
| C704    | 178-1042-78 | 0.1 μF      |
| C705    | 178-6812-78 | 680pF       |
| D701    | 001-0516-00 | MA111       |
| IC701   | 051-6000-10 | LC75853NE   |
| PL701   | 017-0429-01 | 8V105mA     |
| PL702   | 017-0429-01 | 8V105mA     |
| PL703   | 017-0433-03 | 14V40mA     |
| PL704   | 017-0433-03 | 14V40mA     |
| PL705   | 017-0433-03 | 14V40mA     |
| PL706   | 017-0433-03 | 14V40mA     |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R701    | 117-1021-10 | 1/10W 1kΩ   |
| R702    | 117-1021-10 | 1/10W 1kΩ   |
| R703    | 117-1021-10 | 1/10W 1kΩ   |
| R704    | 117-1031-10 | 1/10W 10kΩ  |
| R705    | 117-1031-10 | 1/10W 10kΩ  |
| R706    | 117-1821-10 | 1/10W 1.8kΩ |
| R707    | 117-1041-10 | 1/10W 100kΩ |
| R708    | 117-6831-10 | 1/10W 68kΩ  |
| R709    | 117-1031-10 | 1/10W 10kΩ  |
| S701    | 013-6302-50 | SKQMAL      |
| S702    | 013-6302-50 | SKQMAL      |
| S703    | 013-6302-50 | SKQMAL      |
| S704    | 013-6302-50 | SKQMAL      |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| S705    | 013-6302-50 | SKQMAL      |
| S706    | 013-6302-50 | SKQMAL      |
| S707    | 013-6302-50 | SKQMAL      |
| S708    | 013-6302-50 | SKQMAL      |
| S709    | 013-6302-50 | SKQMAL      |
| S710    | 013-6302-50 | SKQMAL      |
| S711    | 013-6302-50 | SKQMAL      |
| S712    | 013-6302-50 | SKQMAL      |
| S713    | 013-6302-50 | SKQMAL      |
| S714    | 013-6302-50 | SKQMAL      |
| S715    | 013-6302-50 | SKQMAL      |
| S717    | 013-6302-50 | SKQMAL      |
| VR801   | 016-0000-07 | VR          |

#### Tape mechanism/Side PWB section(B3)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| C1      | 178-5612-78 | 560pF       |
| C2      | 178-5612-78 | 560pF       |
| C3      | 178-5612-78 | 560pF       |
| C4      | 178-5612-78 | 560pF       |
| C5      | 172-1231-11 | 0.012 μF    |
| C6      | 172-1231-11 | 0.012 μF    |
| C7      | 172-4731-11 | 0.047 μF    |
| C8      | 172-4731-11 | 0.047 μF    |
| C9      | 183-1053-61 | 50V1 μF     |
| C10     | 178-5612-78 | 560pF       |
| C11     | 178-5612-78 | 560pF       |
| C12     | 178-1042-78 | 0.1 μF      |
| C13     | 178-1042-78 | 0.1 μF      |
| C14     | 178-4722-78 | 4700pF      |
| C15     | 183-2263-31 | 16V22 μF    |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| C16     | 178-1032-78 | 0.01 μF     |
| C17     | 183-1043-61 | 50V0.1 μF   |
| C18     | 183-4753-51 | 35V4.7 μF   |
| IC1     | 051-1777-00 | HA12163     |
| R1      | 117-2731-10 | 1/10W 27kΩ  |
| R2      | 117-2731-10 | 1/10W 27kΩ  |
| R3      | 117-2731-10 | 1/10W 27kΩ  |
| R4      | 117-2731-10 | 1/10W 27kΩ  |
| R5      | 117-1811-10 | 1/10W 180Ω  |
| R6      | 117-1811-10 | 1/10W 180Ω  |
| R7      | 117-3341-10 | 1/10W 330kΩ |
| R8      | 117-3341-10 | 1/10W 330kΩ |
| R9      | 117-1131-10 | 1/10W 11kΩ  |
| R10     | 117-1131-10 | 1/10W 11kΩ  |
| R11     | 117-1531-10 | 1/10W 15kΩ  |

| REF No. | PART No.    | DESCRIPTION    |
|---------|-------------|----------------|
| R12     | 117-1531-10 | 1/10W 15kΩ     |
| R13     | 032-0098-03 | 1/10W 18kΩ ±2% |
| R14     | 117-3331-10 | 1/10W 33kΩ     |
| R15     | 117-1831-10 | 1/10W 18kΩ     |
| R16     | 117-1841-10 | 1/10W 180kΩ    |
| R17     | 117-4731-10 | 1/10W 47kΩ     |
| R18     | 117-1241-10 | 1/10W 120kΩ    |
| R19     | 117-2231-10 | 1/10W 22kΩ     |
| R20     | 117-2231-10 | 1/10W 22kΩ     |
| R21     | 117-2231-10 | 1/10W 22kΩ     |
| R22     | 117-1031-10 | 1/10W 10kΩ     |
| R23     | 117-2231-10 | 1/10W 22kΩ     |
| VR1     | 012-4431-06 | 10kΩ           |
| VR2     | 012-4431-06 | 10kΩ           |

#### Tape mechanism/Flexible PWB section(B4)

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| IC2     | 051-1776-00 | NJL5801K    |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| SW1     | 013-3953-01 |             |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| SW2     | 013-3951-11 |             |

#### Tape mechanism/Rear PWB section(B5)

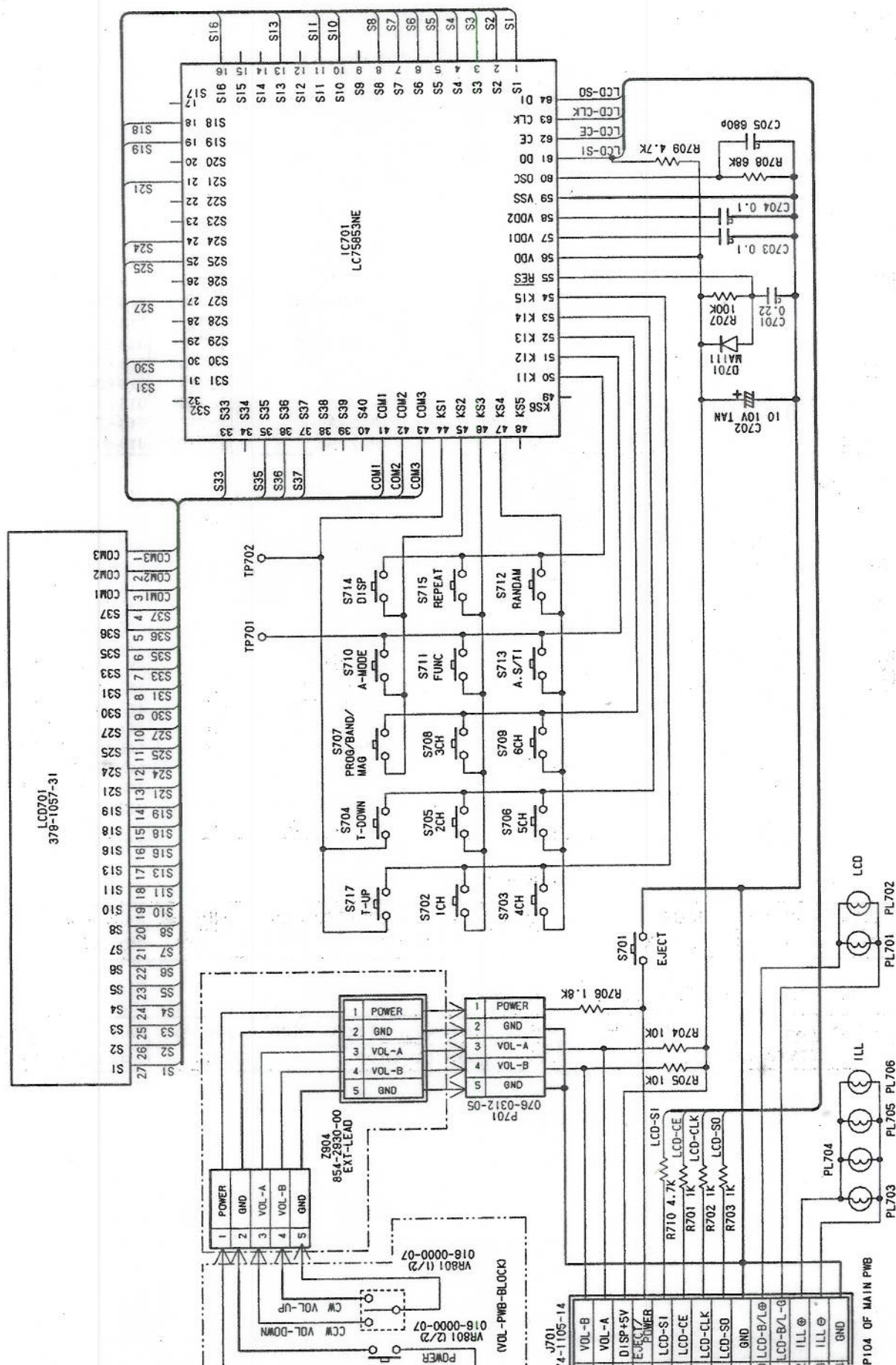
| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| P5      | 076-0368-10 | 10P         |

| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| P6      | 074-1104-20 | 20P         |

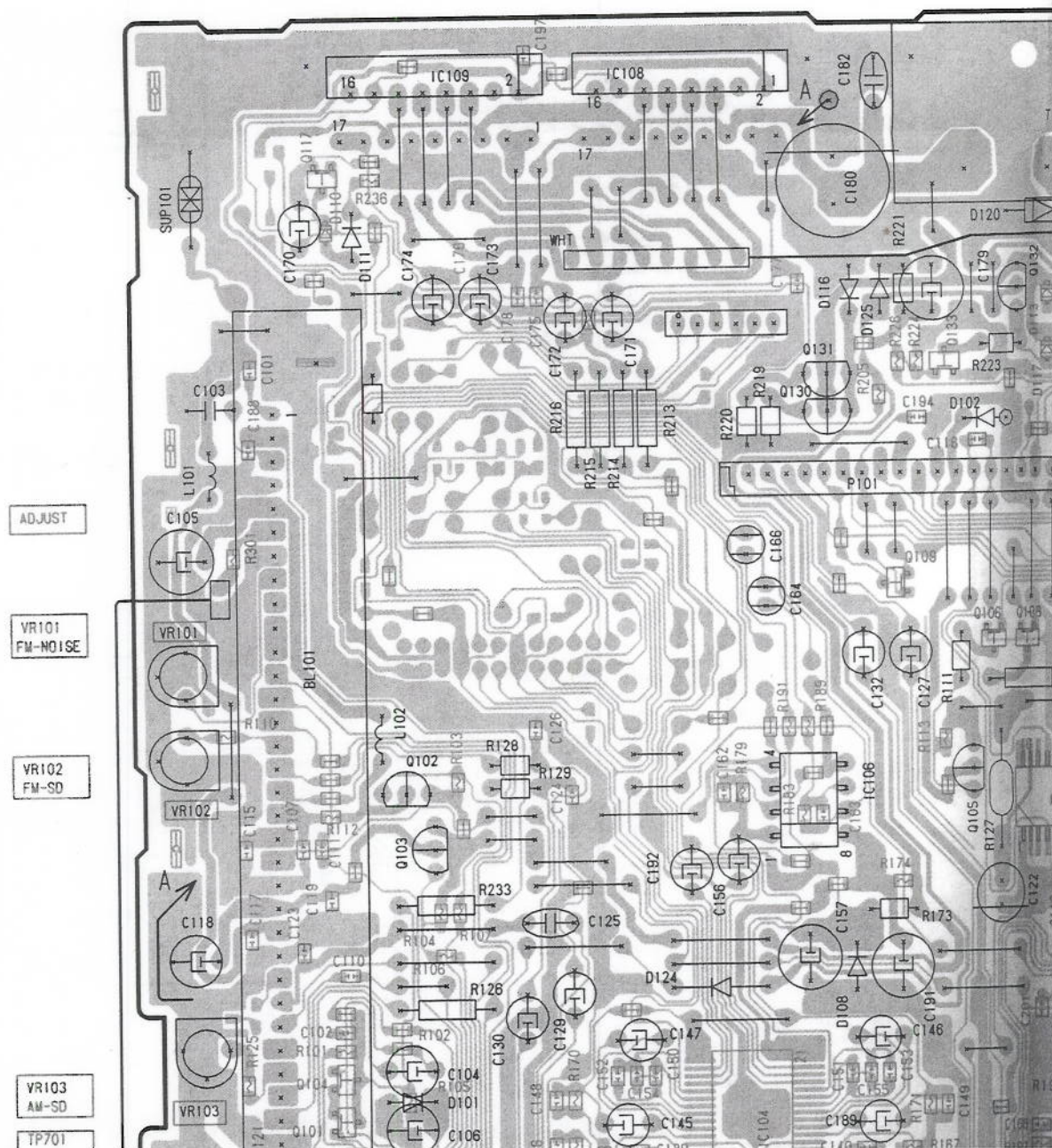
| REF No. | PART No.    | DESCRIPTION |
|---------|-------------|-------------|
| R24     | 111-5611-91 | 1/4WS 560Ω  |

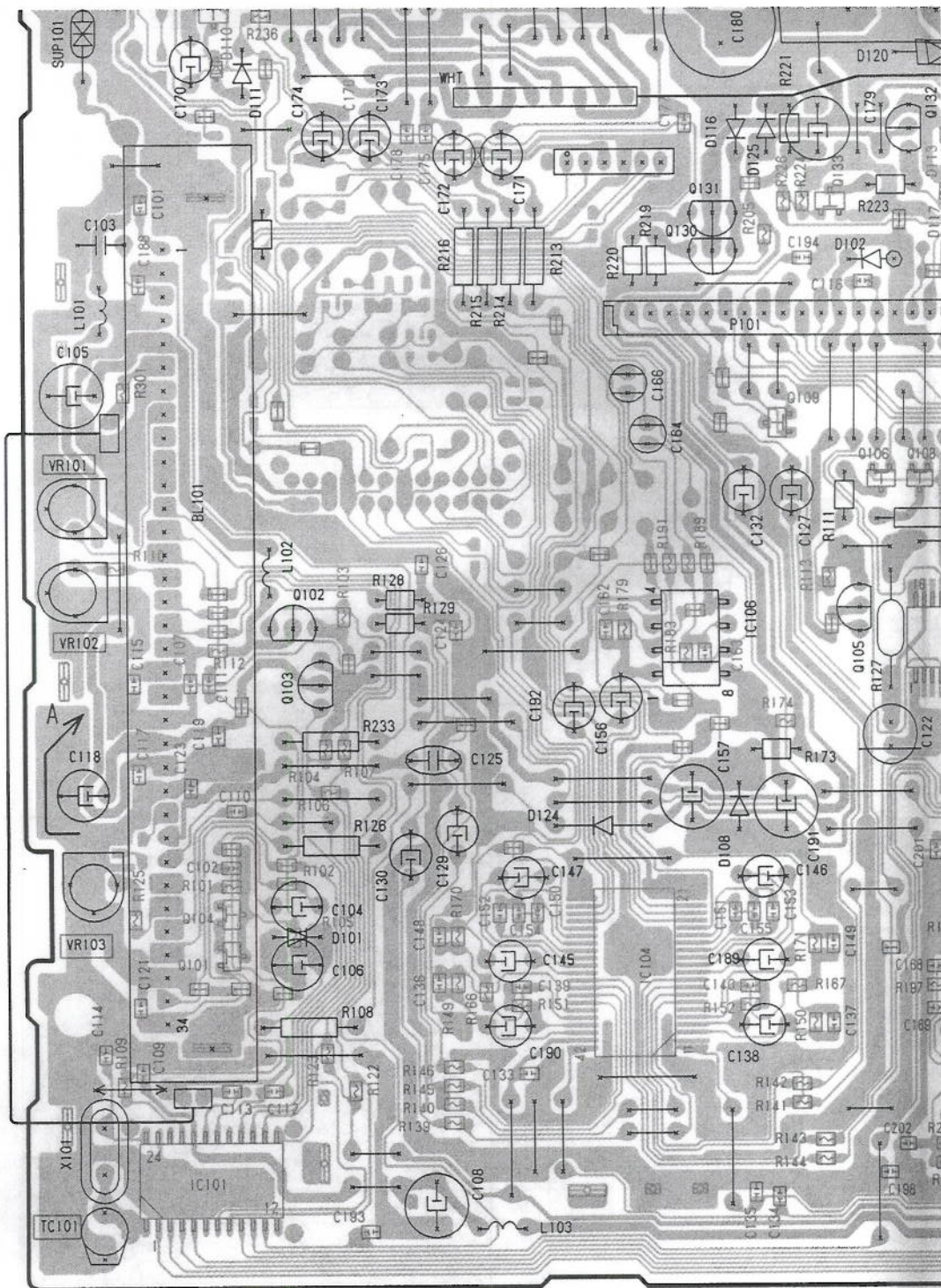
## ■ CIRCUIT DIAGRAM

SW PWB section(B2)



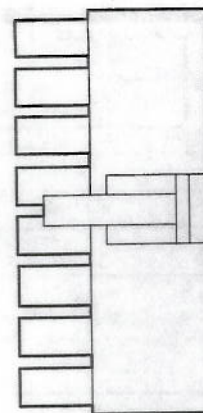
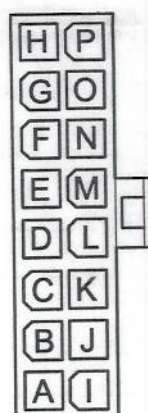
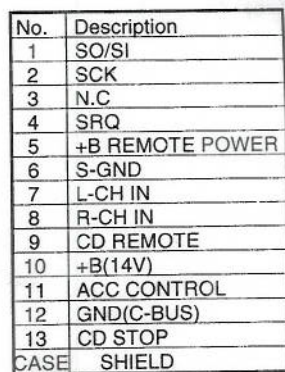
# PRINTED WIRING BOARD



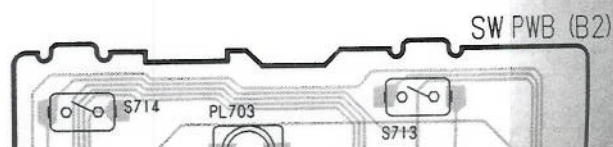


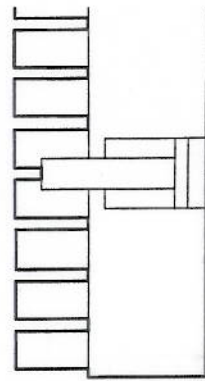
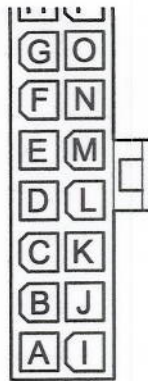
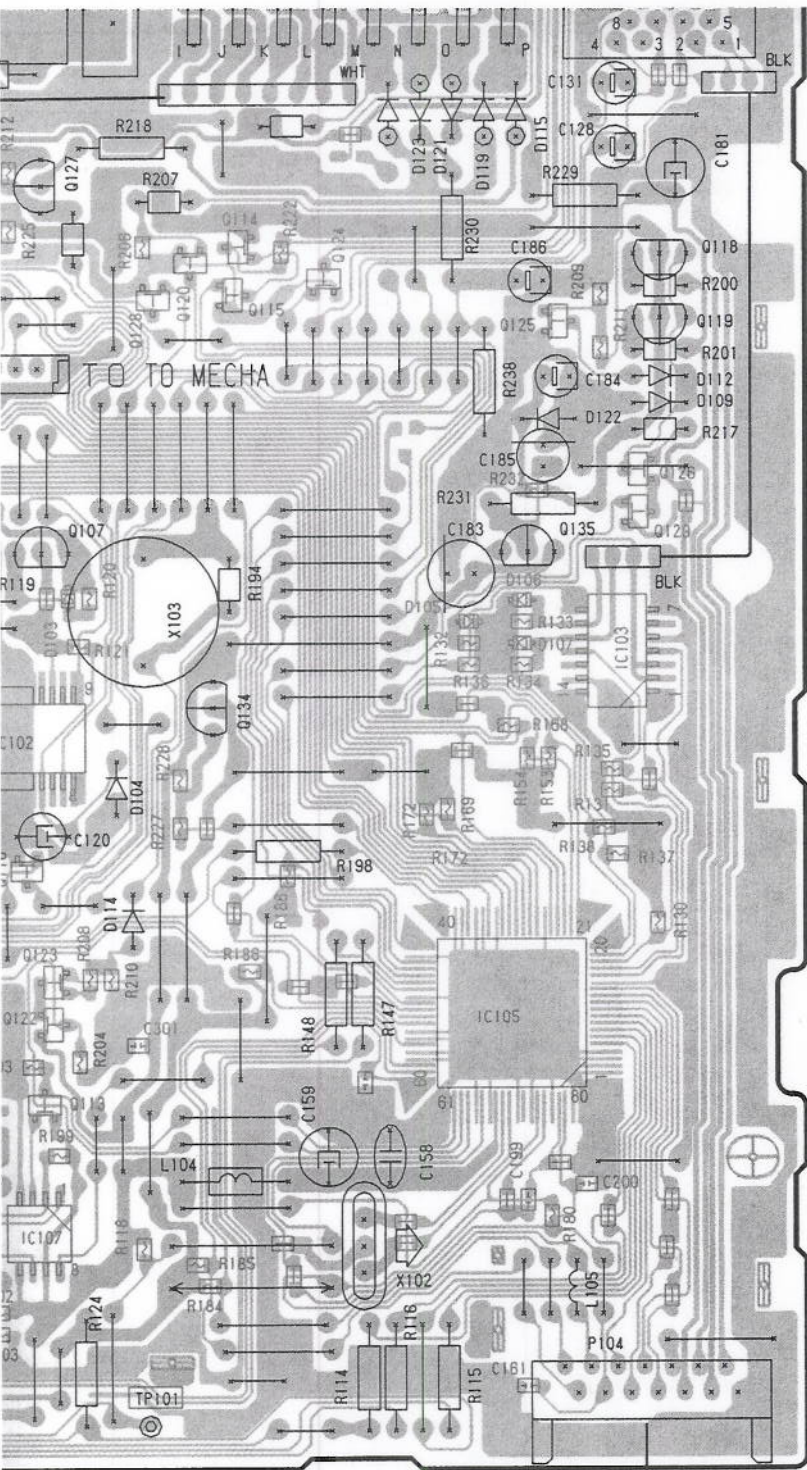
MAIN PWB (B1)

|    |                            |             |         |                  |
|----|----------------------------|-------------|---------|------------------|
| Q  | 117 104<br>110 101 102 103 | 131<br>130  | 109 133 | 106 13<br>105 10 |
| IC | 101 109                    | 108 104 106 |         |                  |

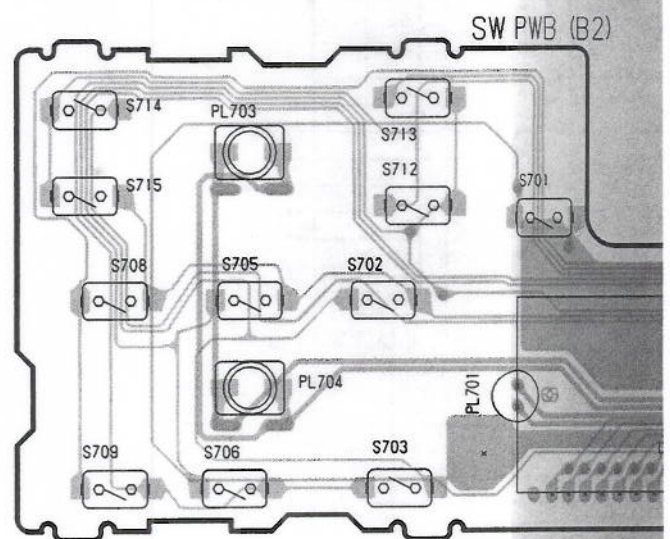


| Pin No. | Color        |
|---------|--------------|
| A       | WHITE/BLACK  |
| B       | WHITE        |
| C       | GREEN/BLACK  |
| D       | GREEN        |
| E       | _____        |
| F       | YELLOW       |
| G       | _____        |
| H       | _____        |
| I       | GREY/BLACK   |
| J       | GREY         |
| K       | PURPLE/BLACK |
| L       | PURPLE       |
| M       | _____        |
| N       | RED          |
| O       | ORANGE/WHITE |
| P       | WHITE        |

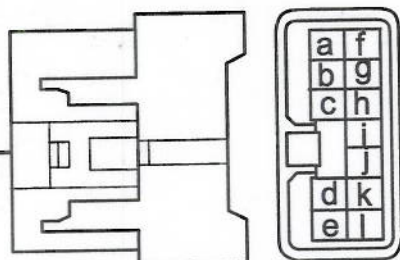




| Pin No. | Color     |
|---------|-----------|
| A       | WHITE/BLA |
| B       | WHITE     |
| C       | GREEN/BL  |
| D       | GREEN     |
| E       |           |
| F       | YELLOW    |
| G       |           |
| H       |           |
| I       | GREY/BLA  |
| J       | GREY      |
| K       | PURPLE/BL |
| L       | PURPLE    |
| M       |           |
| N       | RED       |
| O       | ORANGE/W  |
| P       | WHITE     |



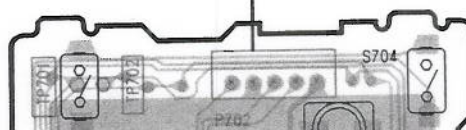
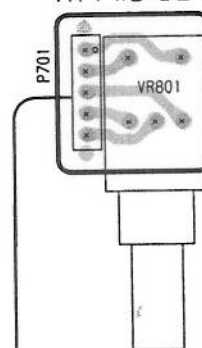
2 107 123 120 115 125 126 119  
 8 127 113 122 128 134 114 124 135 129 118  
 102 107 105 103

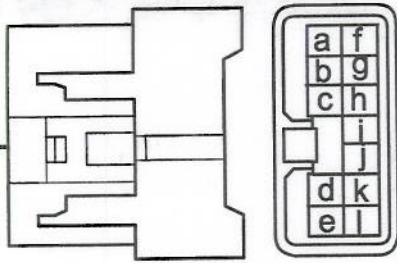


| Color        | Description      |
|--------------|------------------|
| WHITE/BLACK  | FRONT SP L-CH(-) |
| WHITE        | FRONT SP L-CH(+) |
| GREEN/BLACK  | REAR SP L-CH(-)  |
| GREEN        | REAR SP L-CH(+)  |
| YELLOW       | BACK-UP          |
| GREY/BLACK   | FRONT SP R-CH(-) |
| GREY         | FRONT SP R-CH(+) |
| PURPLE/BLACK | REAR SP R-CH(-)  |
| PURPLE       | REAR SP R-CH(+)  |
| RED          | ACC(+14V)        |
| ORANGE/WHITE | ILLUMI           |
| WHITE        | AUTO ANTENNA     |

| Pin No. | Color        | Description      |
|---------|--------------|------------------|
| a       | GREEN        | REAR SP L-CH(+)  |
| b       | PURPLE       | REAR SP R-CH(+)  |
| c       | WHITE        | AUTO ANTENNA     |
| d       | WHITE        | FRONT SP L-CH(+) |
| e       | GREY         | FRONT SP R-CH(+) |
| f       | GREEN/BLACK  | REAR SP L-CH(-)  |
| g       | PURPLE/BLACK | REAR SP R-CH(-)  |
| h       | ORANGE/WHITE | ILLUMI           |
| i       | RED          | ACC(+14V)        |
| j       | YELLOW       | BACK-UP          |
| k       | WHITE/BLACK  | FRONT SP L-CH(-) |
| l       | GREY/BLACK   | FRONT SP R-CH(-) |

VR PWB (B2)

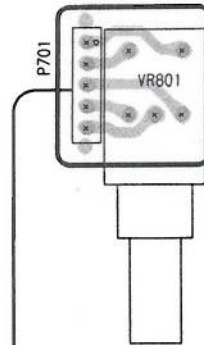




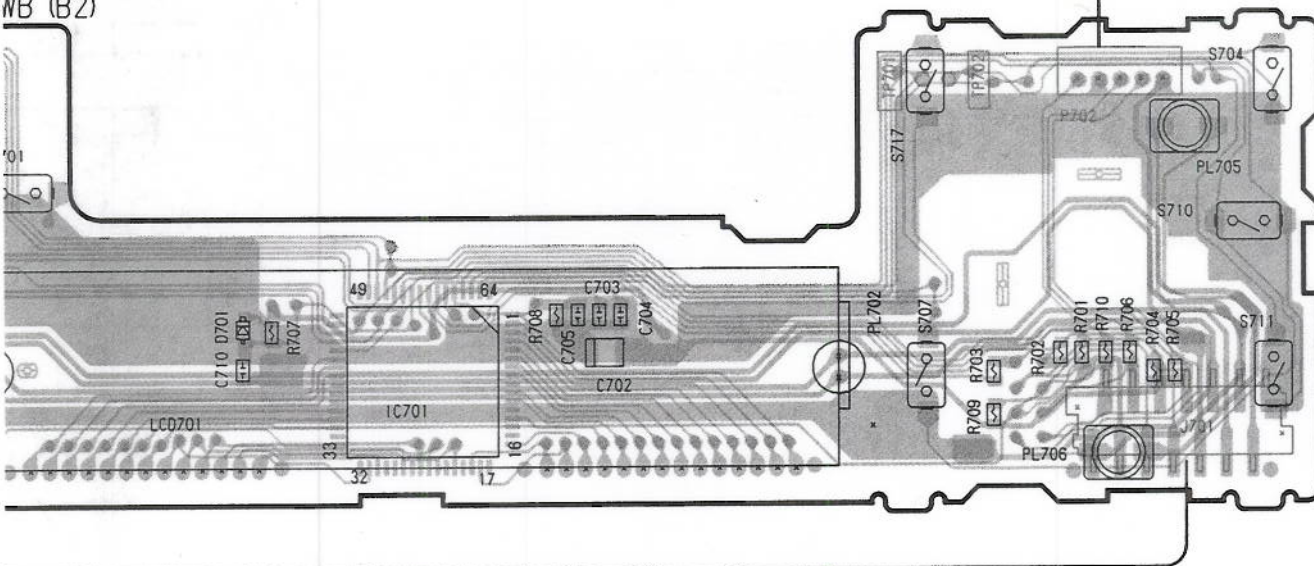
| Color        | Description      |
|--------------|------------------|
| WHITE/BLACK  | FRONT SP L-CH(-) |
| WHITE        | FRONT SP L-CH(+) |
| GREEN/BLACK  | REAR SP L-CH(-)  |
| GREEN        | REAR SP L-CH(+)  |
| YELLOW       | BACK-UP          |
| GREY/BLACK   | FRONT SP R-CH(-) |
| GREY         | FRONT SP R-CH(+) |
| PURPLE/BLACK | REAR SP R-CH(-)  |
| PURPLE       | REAR SP R-CH(+)  |
| RED          | ACC(+14V)        |
| ORANGE/WHITE | ILLUMI           |
| WHITE        | AUTO ANTENNA     |

| Pin No. | Color        | Description      |
|---------|--------------|------------------|
| a       | GREEN        | REAR SP L-CH(+)  |
| b       | PURPLE       | REAR SP R-CH(+)  |
| c       | WHITE        | AUTO ANTENNA     |
| d       | WHITE        | FRONT SP L-CH(+) |
| e       | GREY         | FRONT SP R-CH(+) |
| f       | GREEN/BLACK  | REAR SP L-CH(-)  |
| g       | PURPLE/BLACK | REAR SP R-CH(-)  |
| h       | ORANGE/WHITE | ILLUMI           |
| i       | RED          | ACC(+14V)        |
| j       | YELLOW       | BACK-UP          |
| k       | WHITE/BLACK  | FRONT SP L-CH(-) |
| l       | GREY/BLACK   | FRONT SP R-CH(-) |

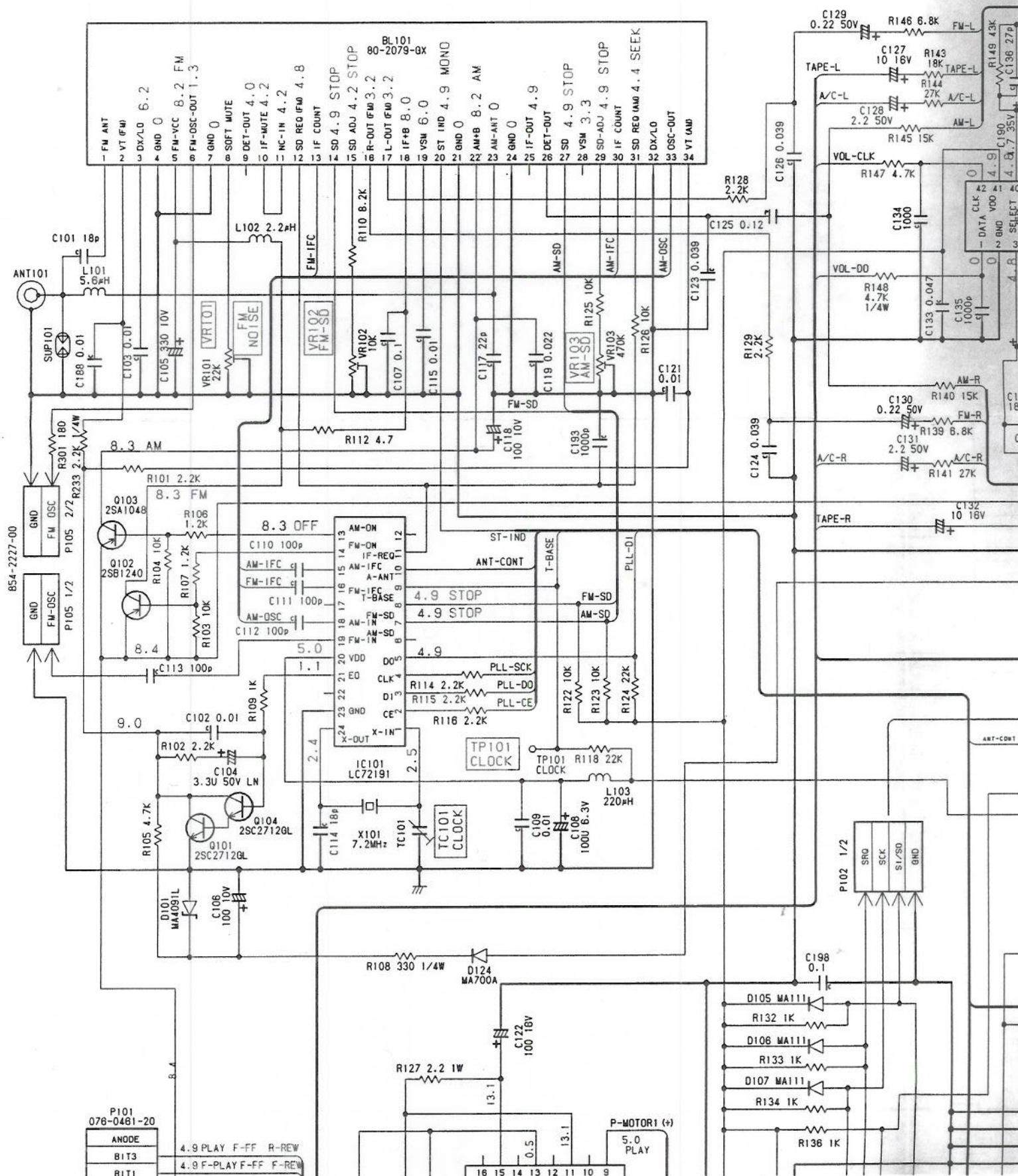
VR PWB (B2)

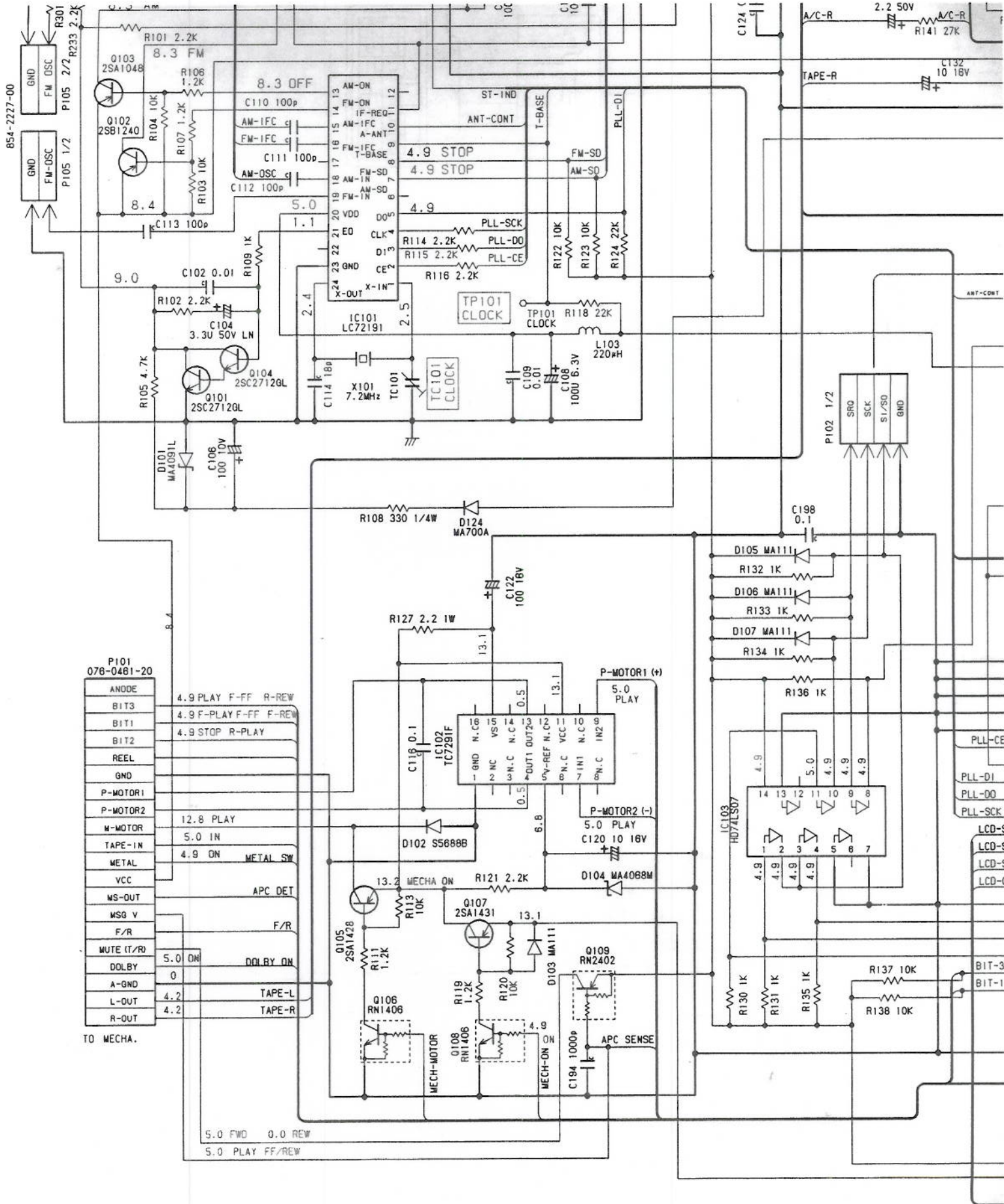


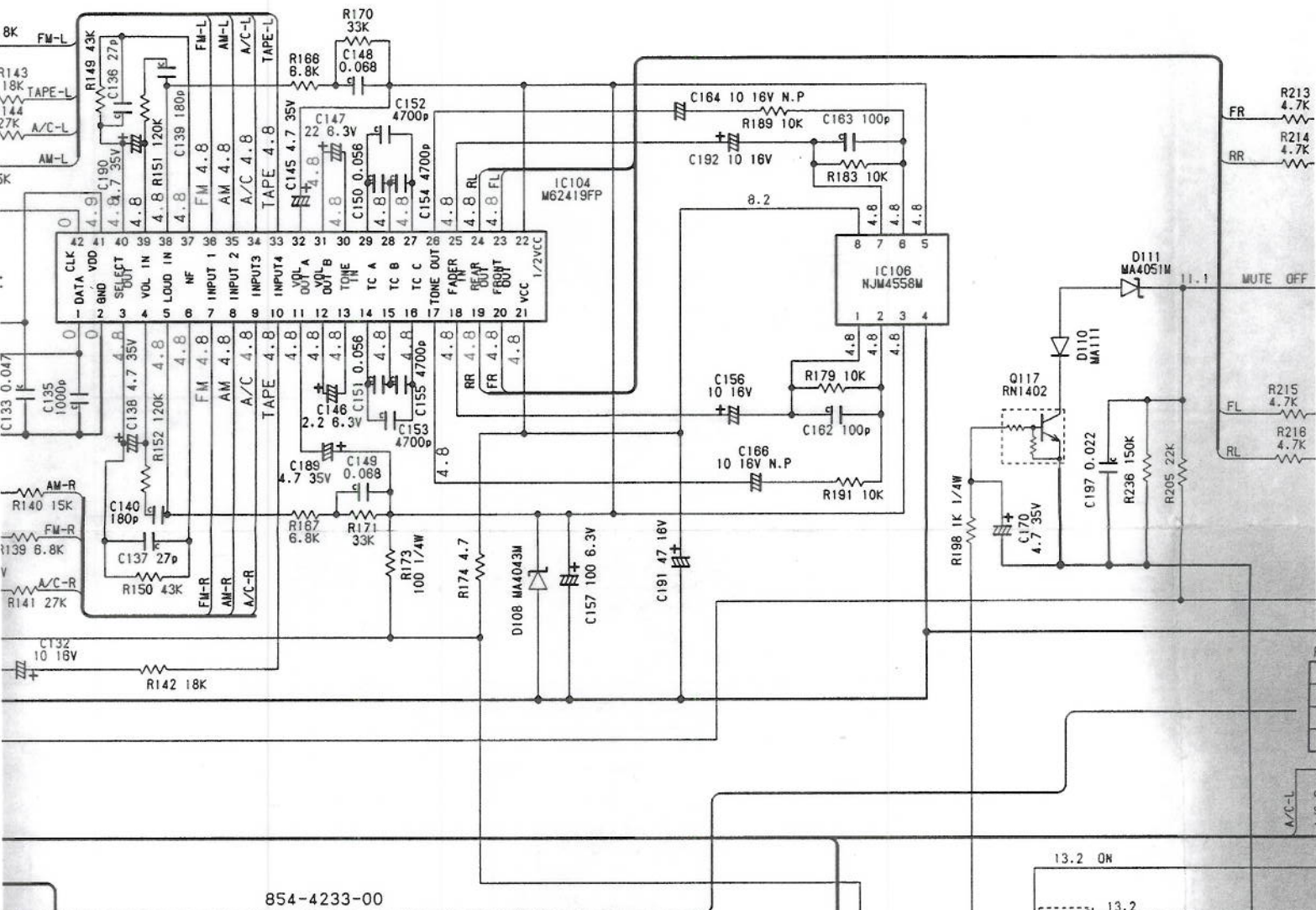
WB (B2)



## SW PWB section(B2)

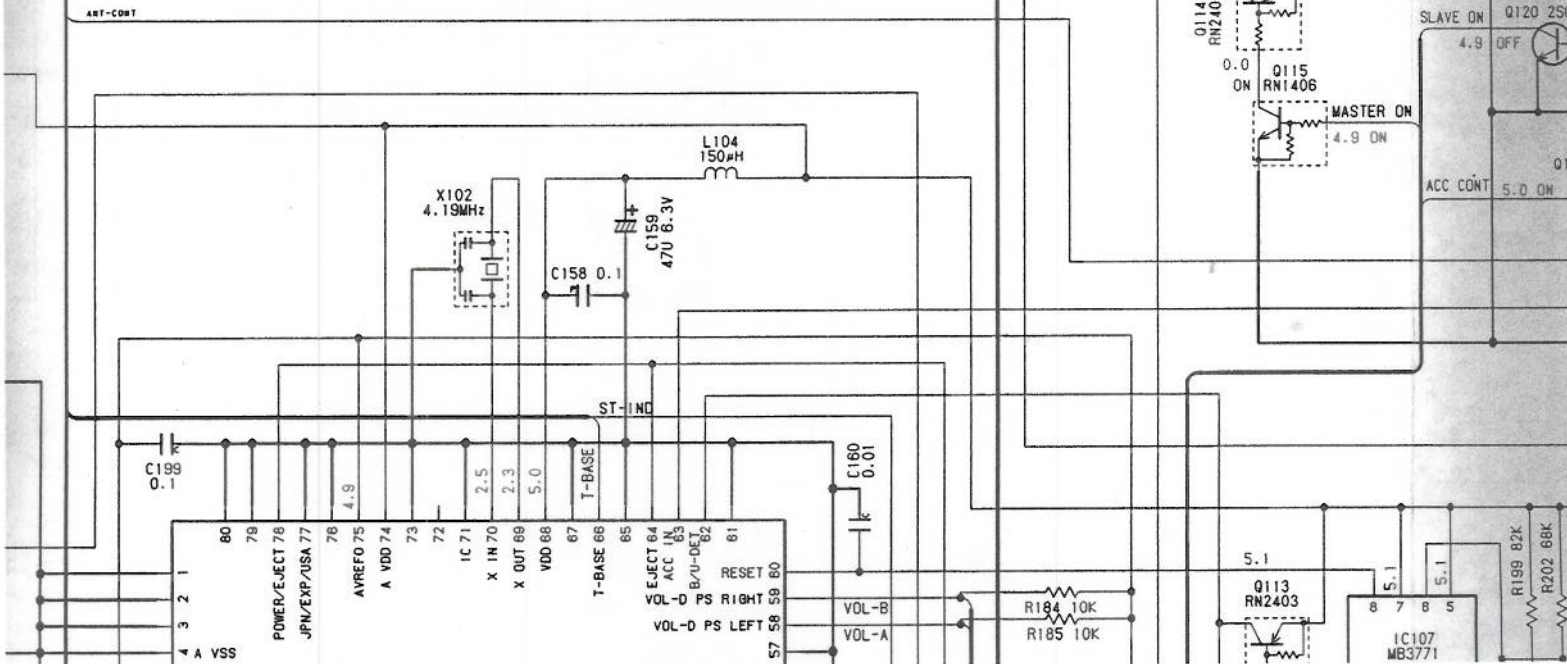


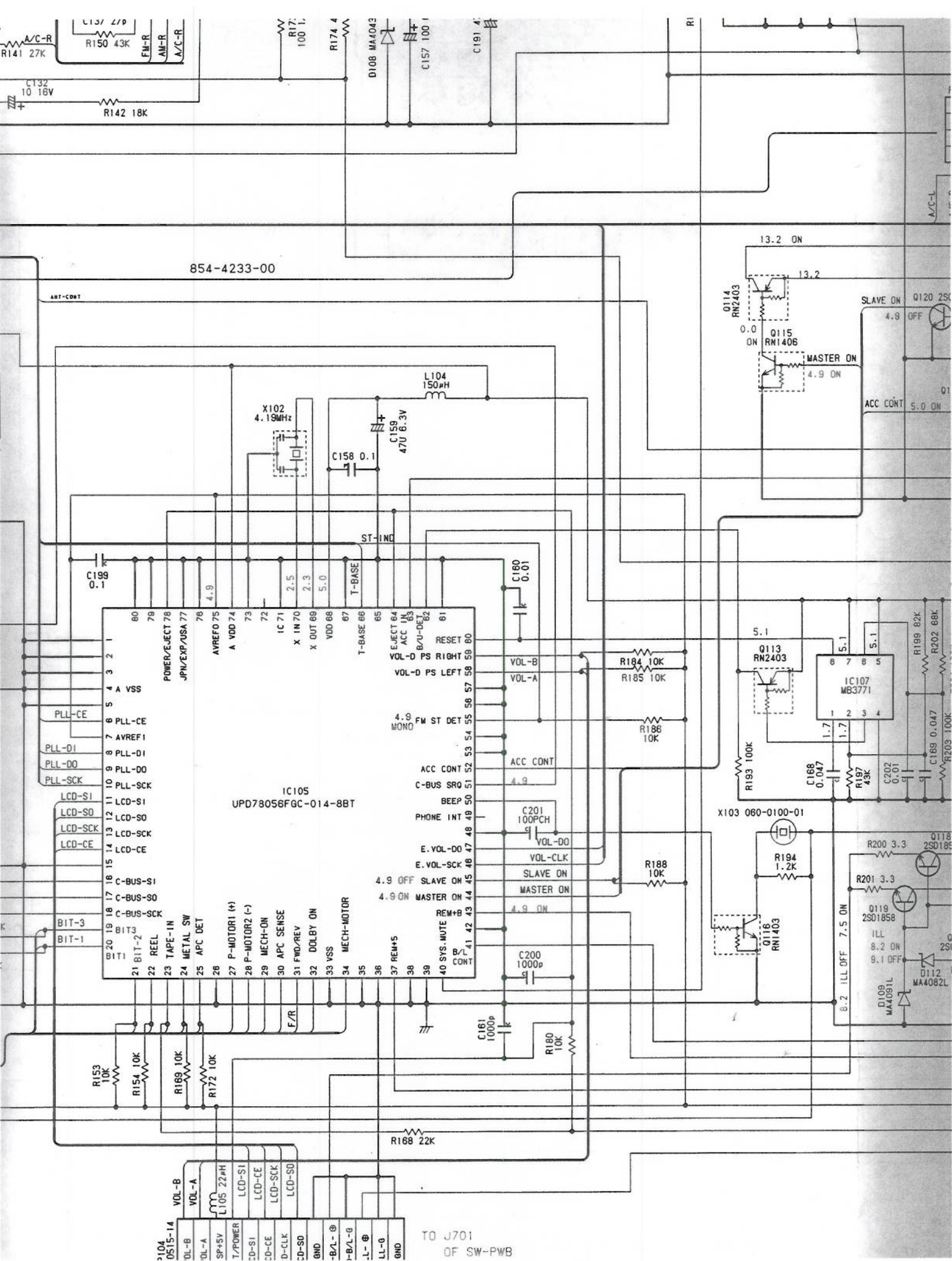


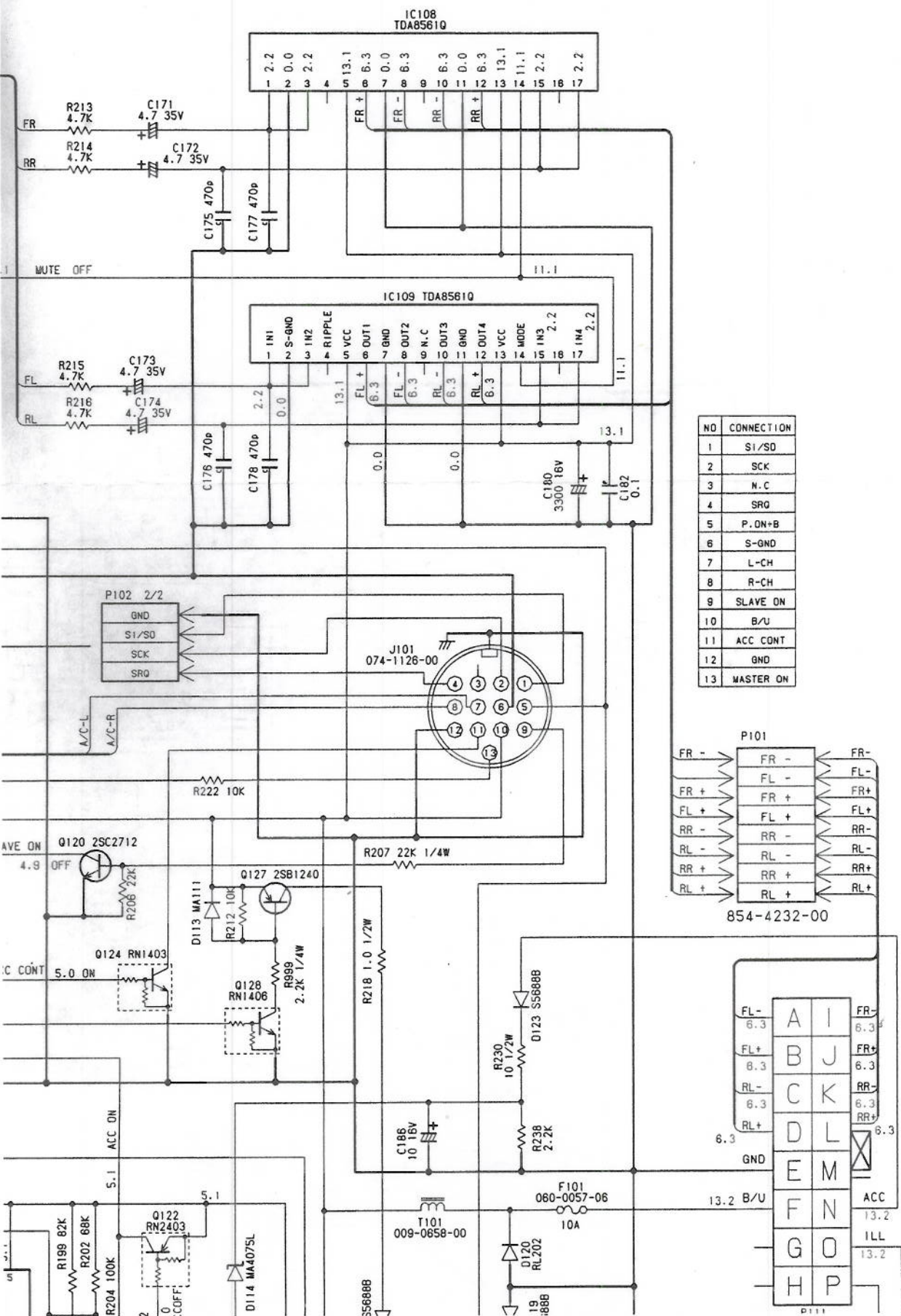


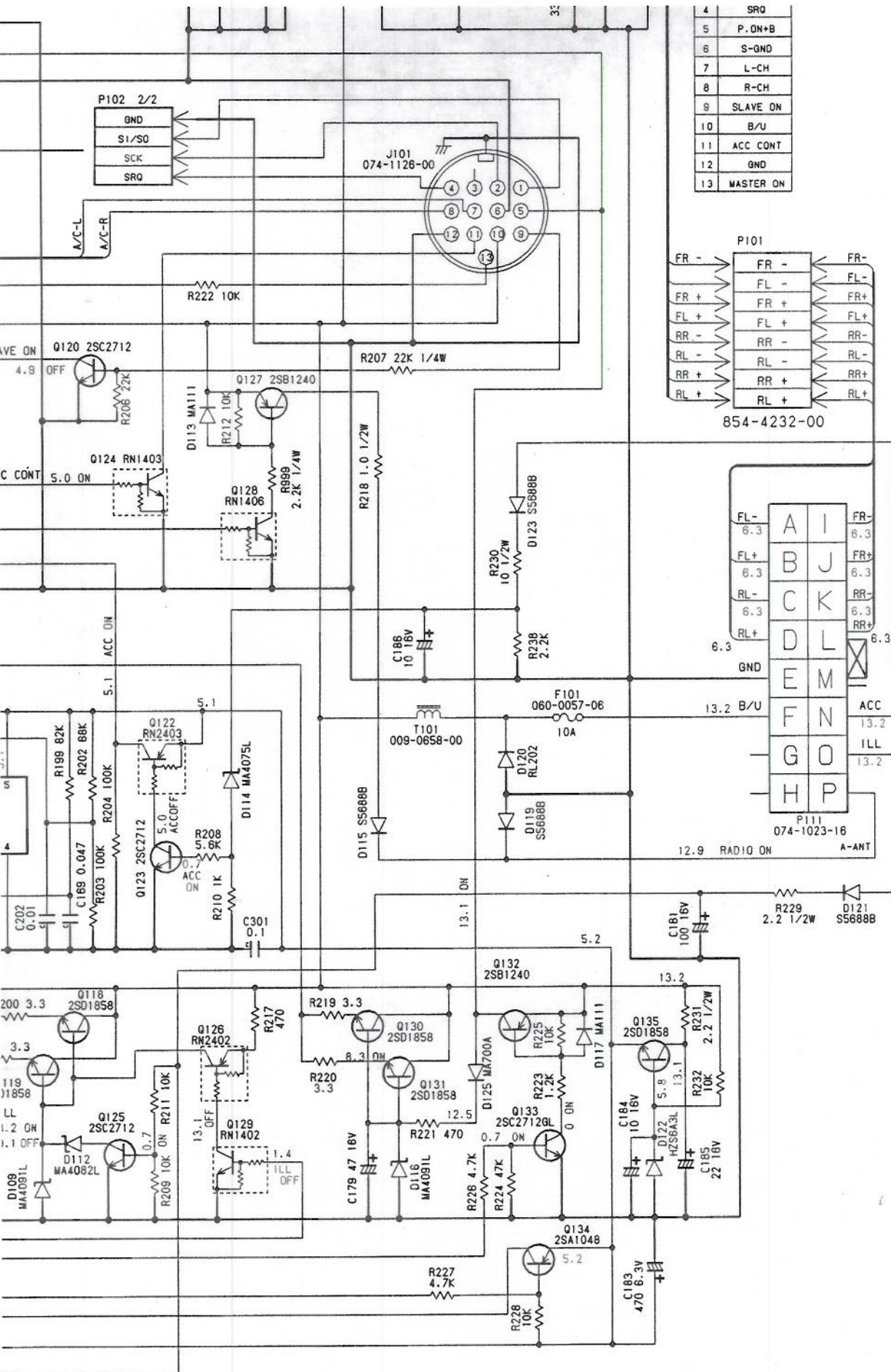
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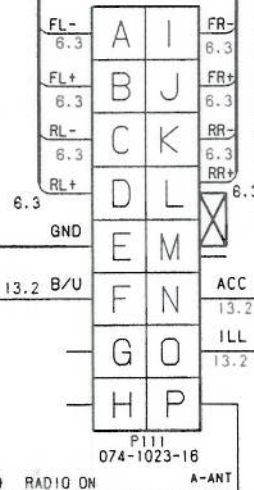
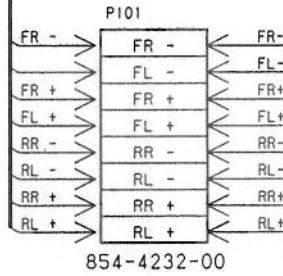




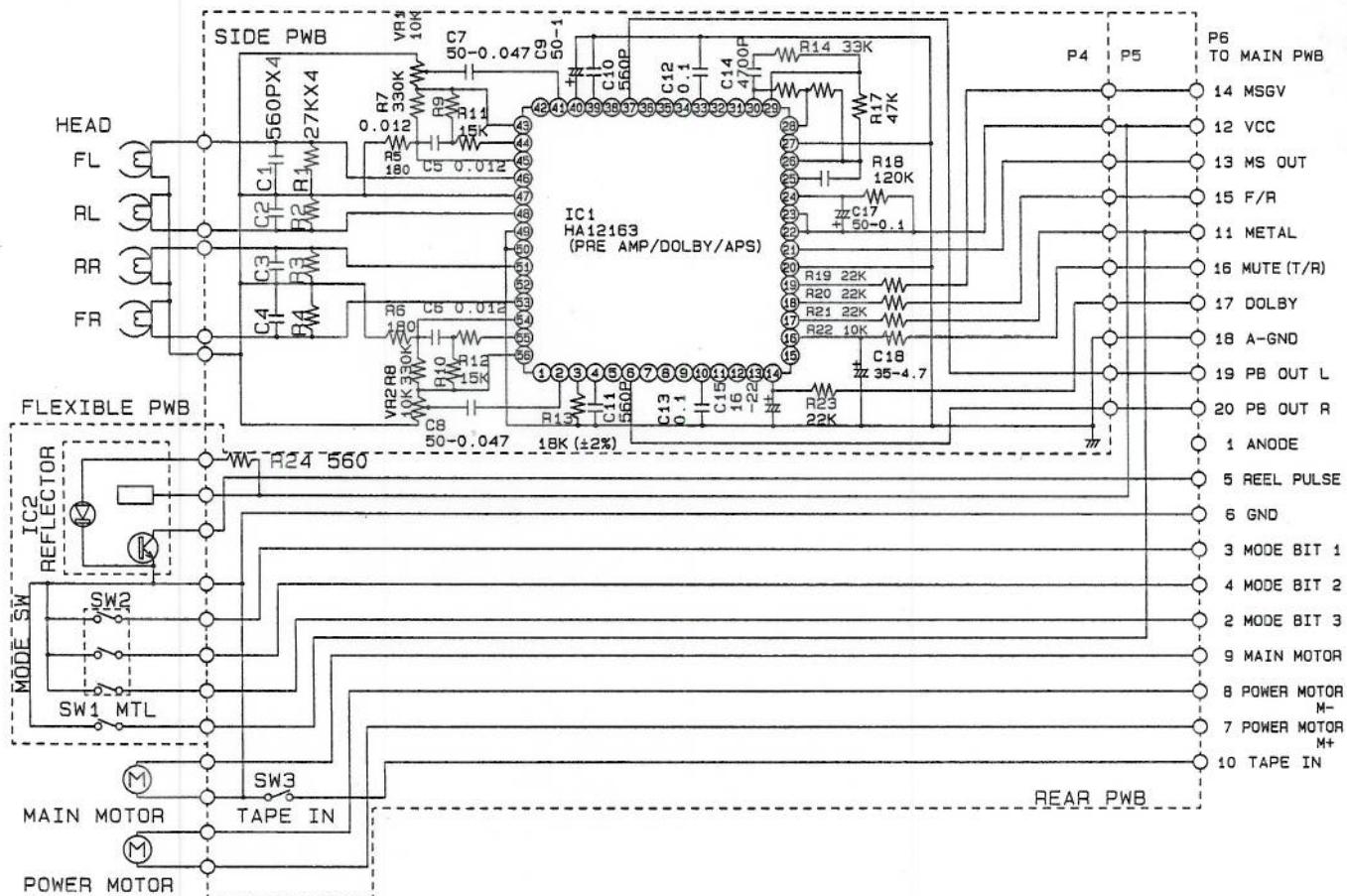




|    |           |
|----|-----------|
| 4  | SRQ       |
| 5  | P.ON+B    |
| 6  | S-GND     |
| 7  | L-CH      |
| 8  | R-CH      |
| 9  | SLAVE ON  |
| 10 | B/U       |
| 11 | ACC CONT  |
| 12 | GND       |
| 13 | MASTER ON |



# Tape mechanism section(B3-4)



## PRINTED WIRING BOARD

### Tape mechanism section

