ORDER NO. SD82012107C1

Service Manual

DOLBY SYSTEM

FM/AM Stereo Cassette Receiver

SA-C06

[MX], [MC]

Areas

* [MX] is available in U.S.A. and Central South America.
* [MC] is available in Canada.

■ CONTENTS

Specifications

Specifications are subject to change without notice for further improvent.
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■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz~20 kHz both channels driven
0.08% total harmonic distortion
20W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.04% total harmonic distortion
20W per channel (8 ohms)
25W per channel (4 ohms)

Dynamic headroom	1.8 dB (8 ohms)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.08% (8 ohms)
half power at 20 Hz~20 kHz	0.08% (8 ohms)
half power at 1 kHz	0.02% (8 ohms)
SMPTE intermodulation distortion	0.08% (8 ohms)

Technics

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Carolina, Puerto Rico 00630

Frequency response	
PHONO	30 Hz~15 kHz RIAA standard curve ±1 dB
AUX	10 Hz~40 kHz, −3 dB
MIC	40 Hz~15 kHz, −3 dB
Input sensitivity	
PHONO	0.5 mV (2.5 mV, IHF '66)
AUX	25 mV (150 mV, IHF '66)
MIC	0.5 mV (1.5 mV, IHF '66)
S/N (IHF, A)	
PHONO	70 dB (72 dB, IHF '66)
AUX	82 dB (87 dB, IHF '66)
MIC	70 dB (66 dB, IHF '66)
Maximum input voltage	
PHONO	120 mV (150 mV, 1 kHz)
Input impedance	
PHONO	47 kilohms
AUX	27 kilohms
MIC	10 kilohms
Tone controls	
BASS	50 Hz, +10 dB~ −10 dB
TREBLE	20 kHz, +10 dB~ −10 dB
Output voltage	
REC OUT	150 mV
Low frequency damping factor	30 (8 ohms)
	15 (4 ohms)
Load impedance	4~16 ohms

■ FM TUNER SECTION

Frequency range	88~108 MHz
Sensitivity	11.2 dBf (2.0 μV, IHF '58)
50 dB quieting sensitivity	
MONO	17.5 dBf (4.1 μV IHF '58)
STEREO	39 dBf (49 μV IHF '58)
Total harmonic distortion	
1 kHz	0.2% (MONO), 0.4% (STEREO)
S/N	
MONO	75 dB
STEREO	70 dB
Frequency response	20 Hz~15 kHz, +0.5 dB, −1.5 dB
Alternate channel selectivity	60 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	60 dB
Spurious response rejection at 98 MHz	80 dB
AM suppression	55 dB
Stereo separation	
1 kHz	40 dB
10 kHz	30 dB
Carrier leak	
19 kHz	−35 dB
38 kHz	−35 dB
Antenna terminals	300 ohms (balanced)
	75 ohms (unbalanced)

■ AM TUNER SECTION

Frequency range	525~1605 kHz
Sensitivity	30 μV, 300 μV/m
Selectivity (±10 kHz)	27 dB
Image rejection at 1000 kHz	50 dB
IF rejection at 1000 kHz	40 dB

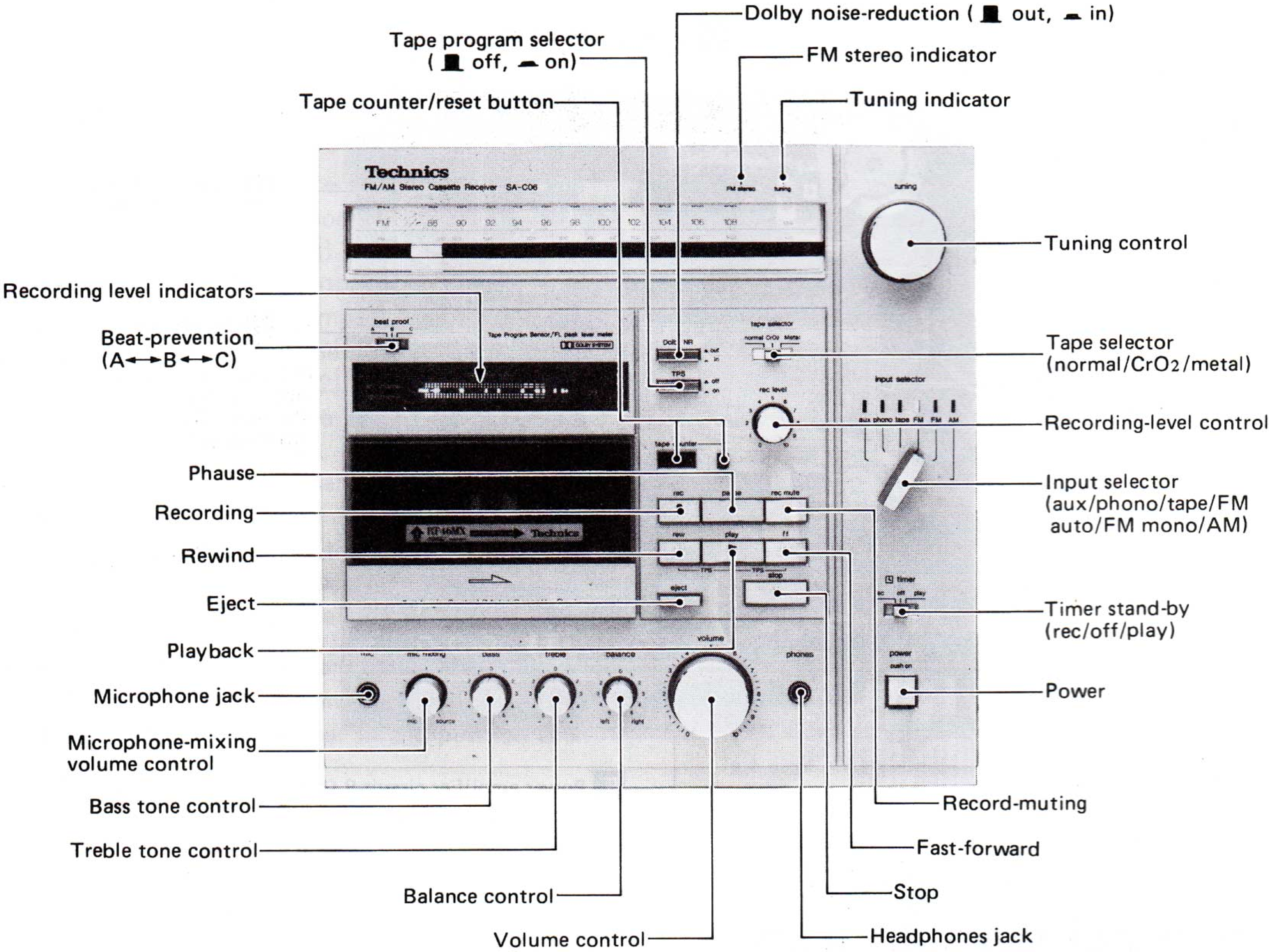
■ CASSETTE DECK SECTION

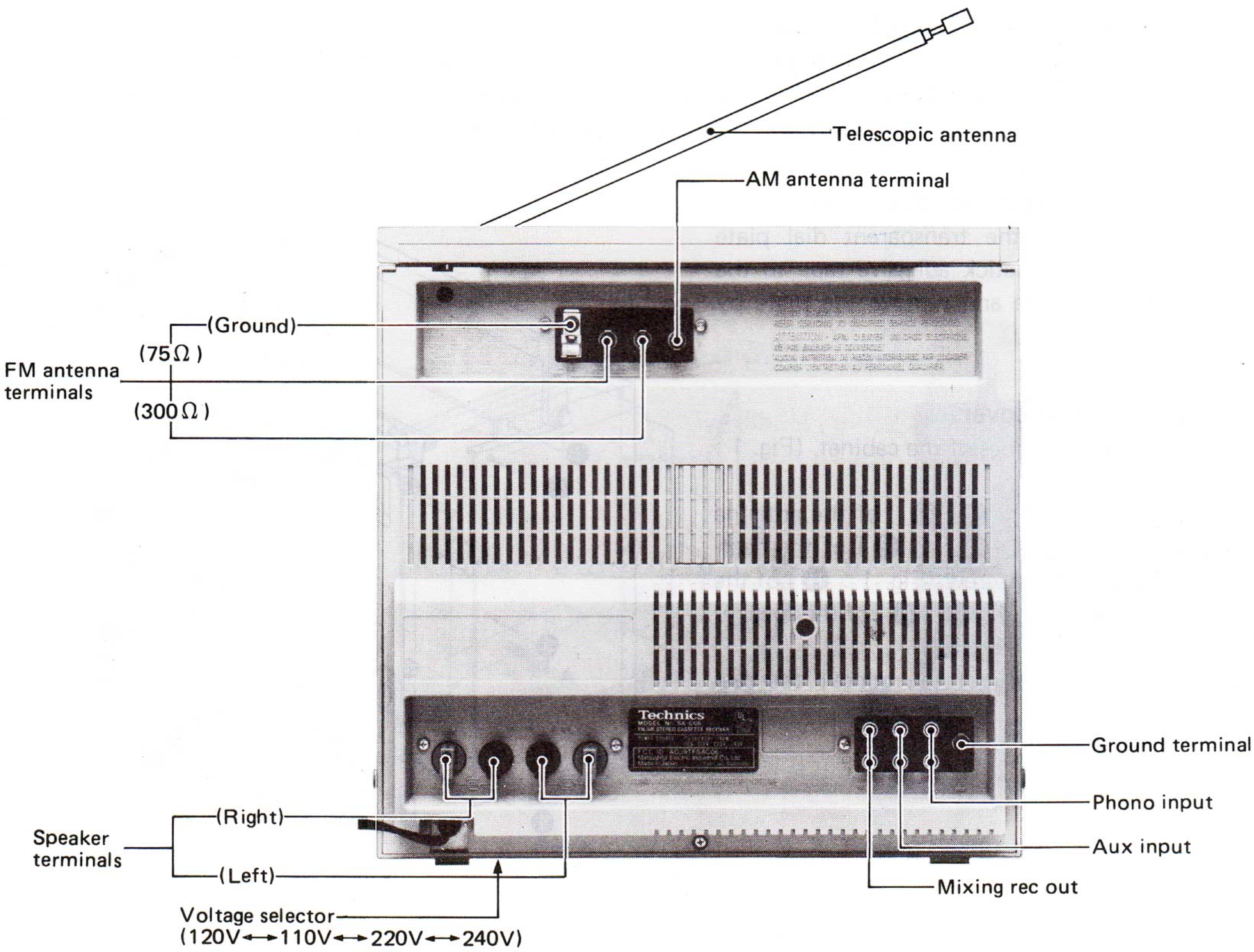
Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Heads	
REC/PLAY	SP (solid permalloy) head
Erasing	3-gap ferrite head
Motor	Electronically controlled DC motor
Recording system	AC bias
Bias frequency	85 kHz
Erasing system	AC erase
Tape speed	4.8 cm/sec
Frequency response (w/o Dolby N.R.)	
METAL	20 Hz~17 kHz
CrO_2	20 Hz~16 kHz
NORMAL	20 Hz~15 kHz
S/N	(signal level = max recording level, CrO_2 type tape)
DOLBY NR in	66 dB (above 5 kHz)
DOLBY NR out	56 dB
Wow and flutter	0.05% (WRMS)

■ GENERAL

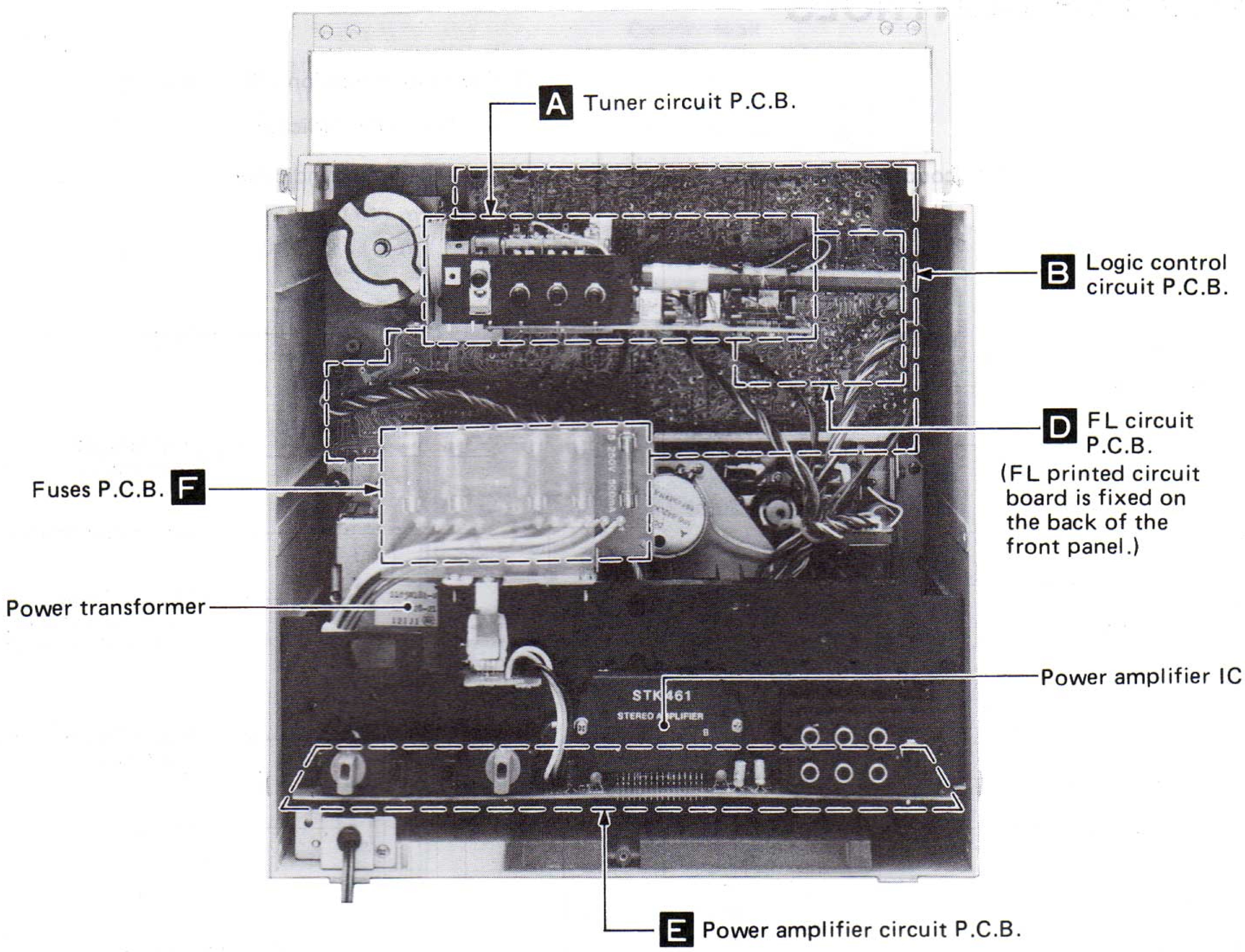
Power consumption	140W
Power supply	AC/110/120/220/240 V, 50/60 Hz
Dimensions (W×H×D)	329 × 320 × 200 mm
	(12-15/16" × 12-5/8" × 7-7/8")
Weight	7.2 kg
	(15.8 lb.)

■ LOCATION OF CONTROLS





***Phono input capacitance is about 150pF**



■ DISASSEMBLY INSTRUCTIONS

Note: Lead connectors are provided with English alphabets.
And the same alphabets are printed near the terminals of the printed circuit board. When inserting the connectors, follow the alphabetical indications. The alphabets are also used in the schematic diagram.
Example: Insert the lead connector provided with B into J101 (B) of the printed circuit board.

• How to remove the transparent dial plate

When cleaning the inside of the transparent dial plate (acrylic) of the cabinet front, stick adhesive tape to the center of the transparent plate and remove the plate by pulling the tape toward you.

• How to remove the rear cover

1. Remove 8 setscrews on the sides of the cabinet. (Fig. 1 : ❶～❽)
2. Remove 2 setscrews (Fig. 1 : ❾ , ❿) of the antenna terminal, 3 setscrews (Fig. 1 : ⓫ ～ ⓭) of the heat-sink and input terminal, 1 setscrew (Fig. 1 : ⓮) of the cabinet and 2 setscrews (Fig. 1 : ⓯ , ⓰) of the speaker terminal.
3. After removing 16 setscrews in total, remove the rear cover.

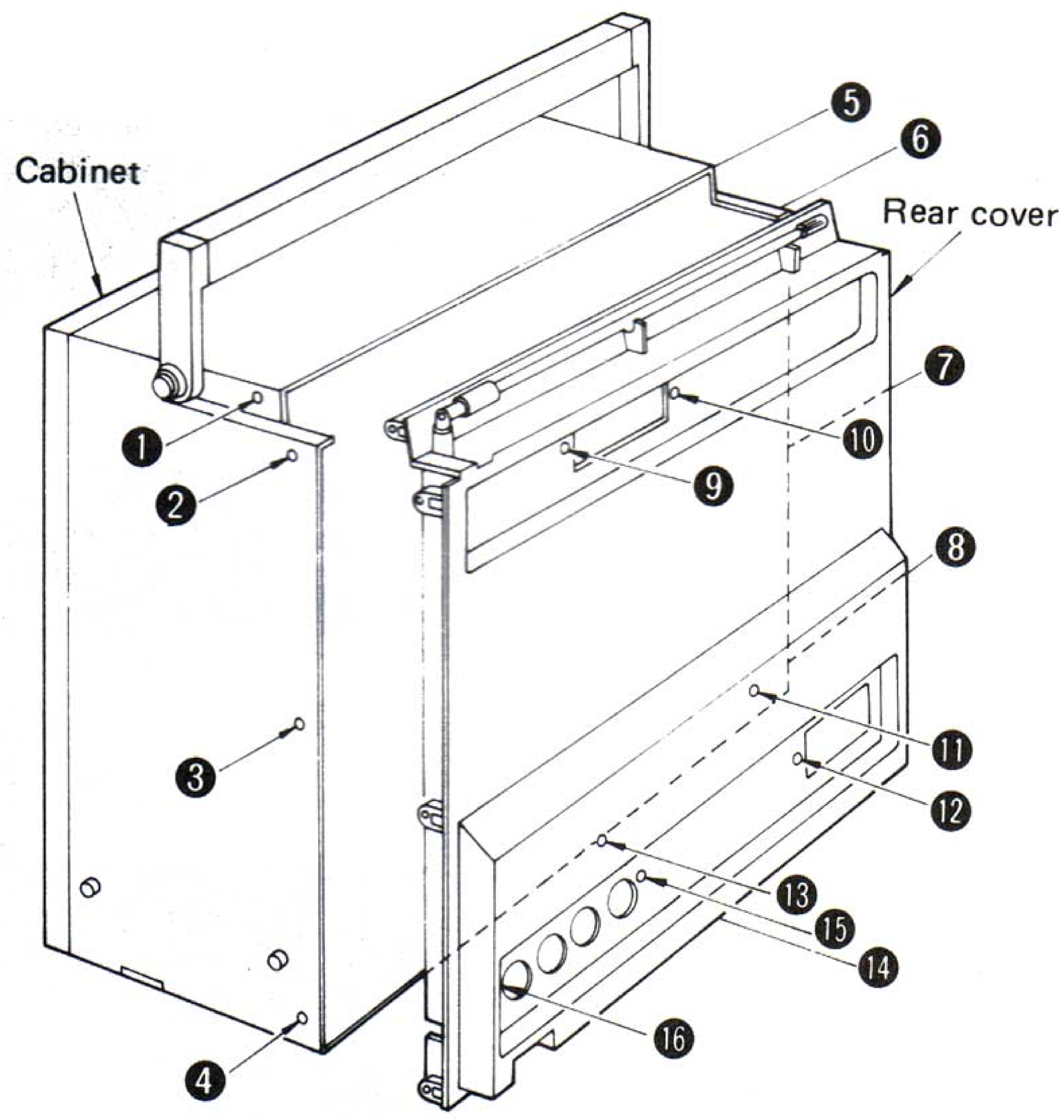


Fig. 1

• How to remove the power amplifier printed circuit board.

1. Remove the rear cover.
2. Remove 2 setscrews (Fig. 2 : 17 , 18) of the fuses printed circuit board and pull out the fuses printed circuit board from heat-sink.
3. Remove 6 setscrews of the power transformer (Fig. 2 : 19 , 20 and 21) and pull out the transformer from the power amplifier printed circuit board as shown in Fig. 2.
3. Remove the knobs and nuts ① , ②. (Remove the washer from nut ② by using a pincette beforehand.)
4. Slightly draw out the power amplifier printed circuit board and remove the wire of the input selector switch (S6) and the lead connector (J112) of the input function indication lamp [Photo 1], then remove one setscrew of AC cord bracket (Fig. 4 : 22).
5. Draw out the printed circuit board as shown in Fig. 5, and raise it in the direction of the arrow B.
6. In the state of Photo 2, insert the power transformer into the socket and check the operation. (When changing the position of S6, shift it by a screwdriver.)

Note: When checking the power amplifier printed circuit board removed from the main body, be sure to install the power transformer in the position as in Photo 2.

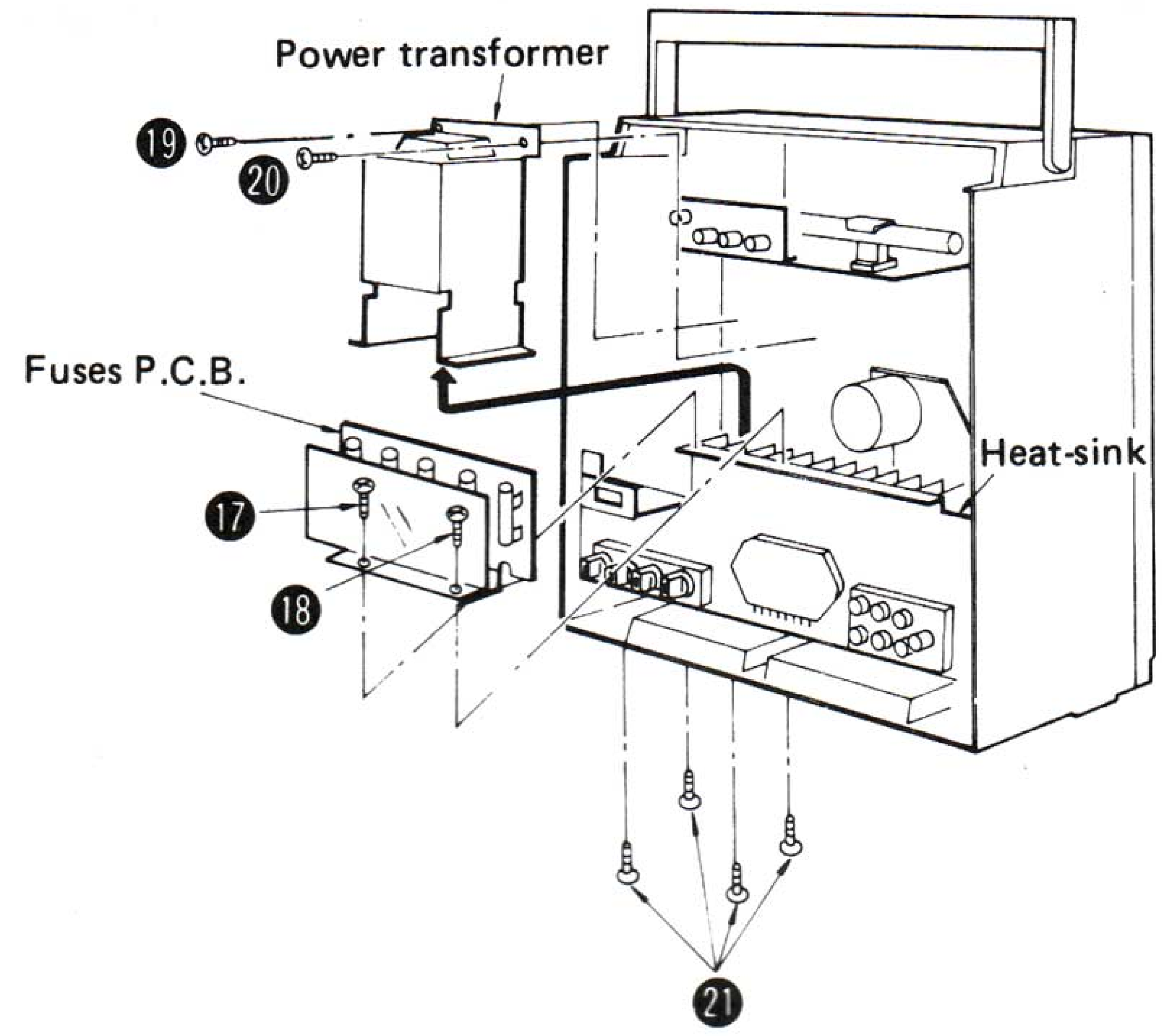
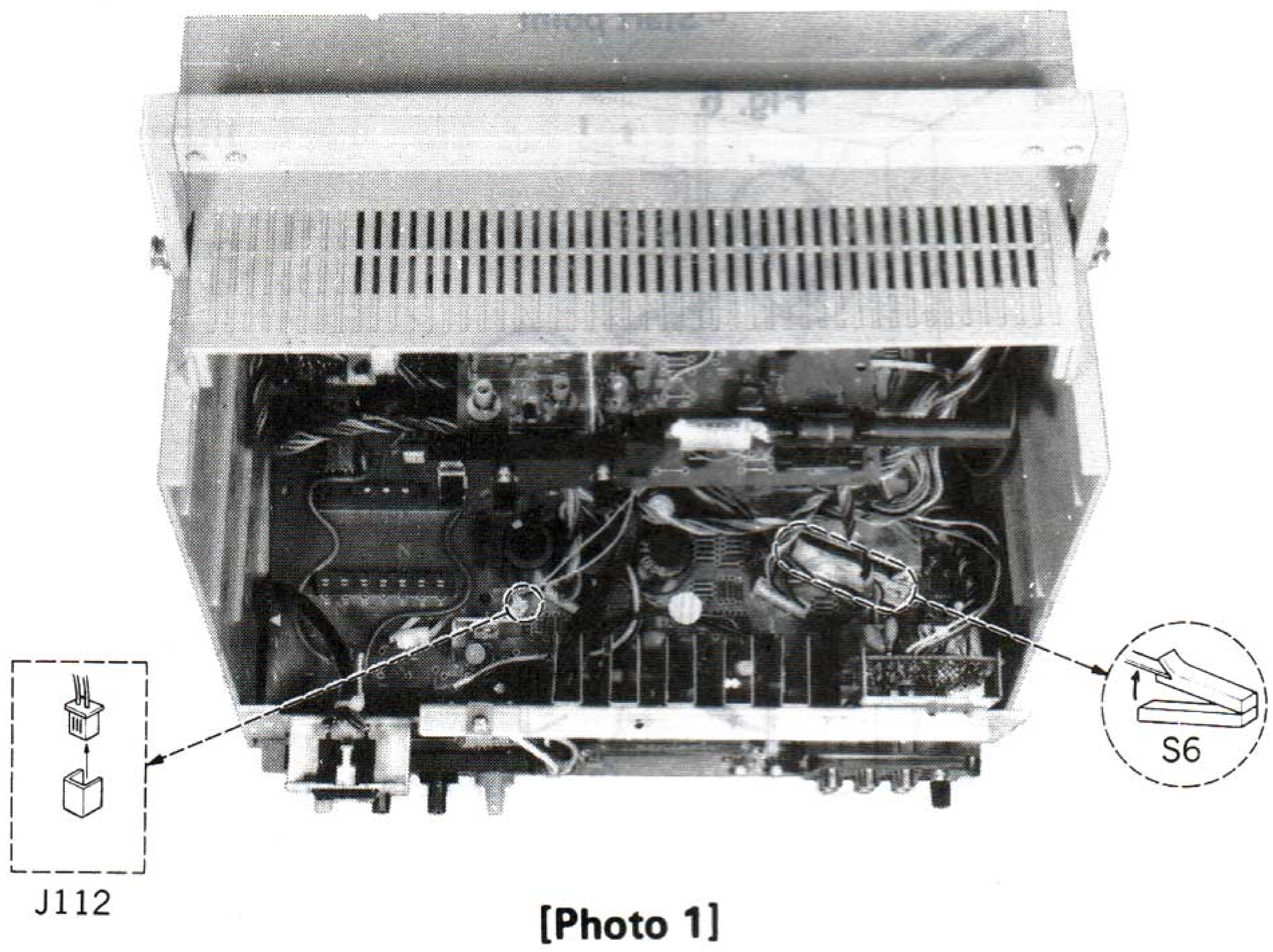


Fig. 2



[Photo 1]

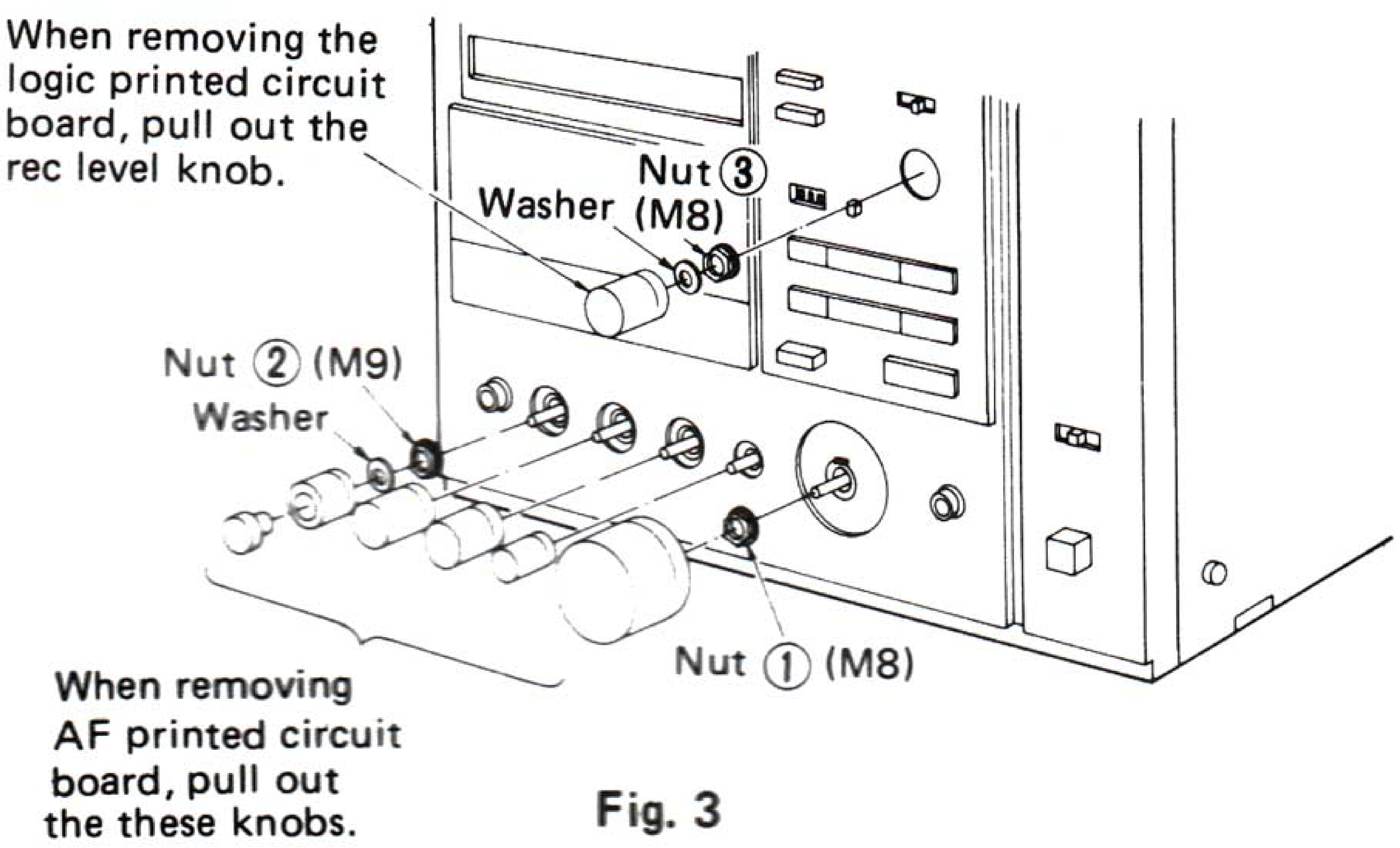


Fig. 3

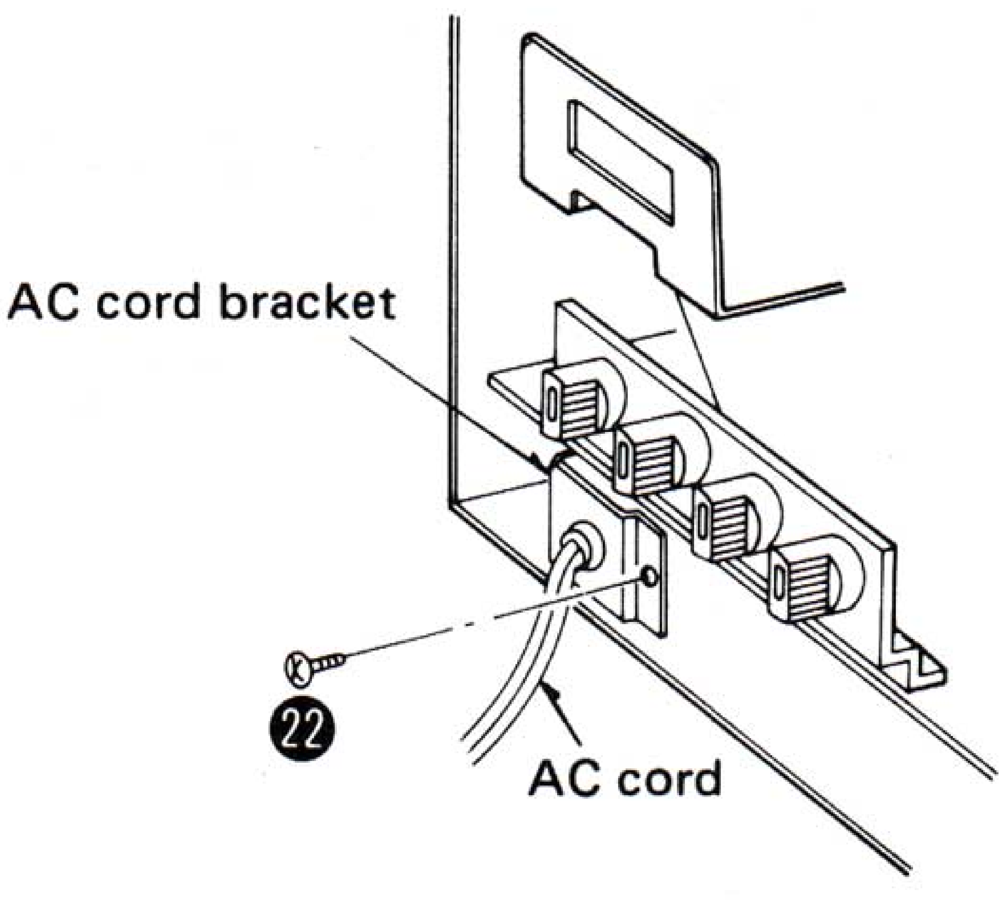


Fig. 4

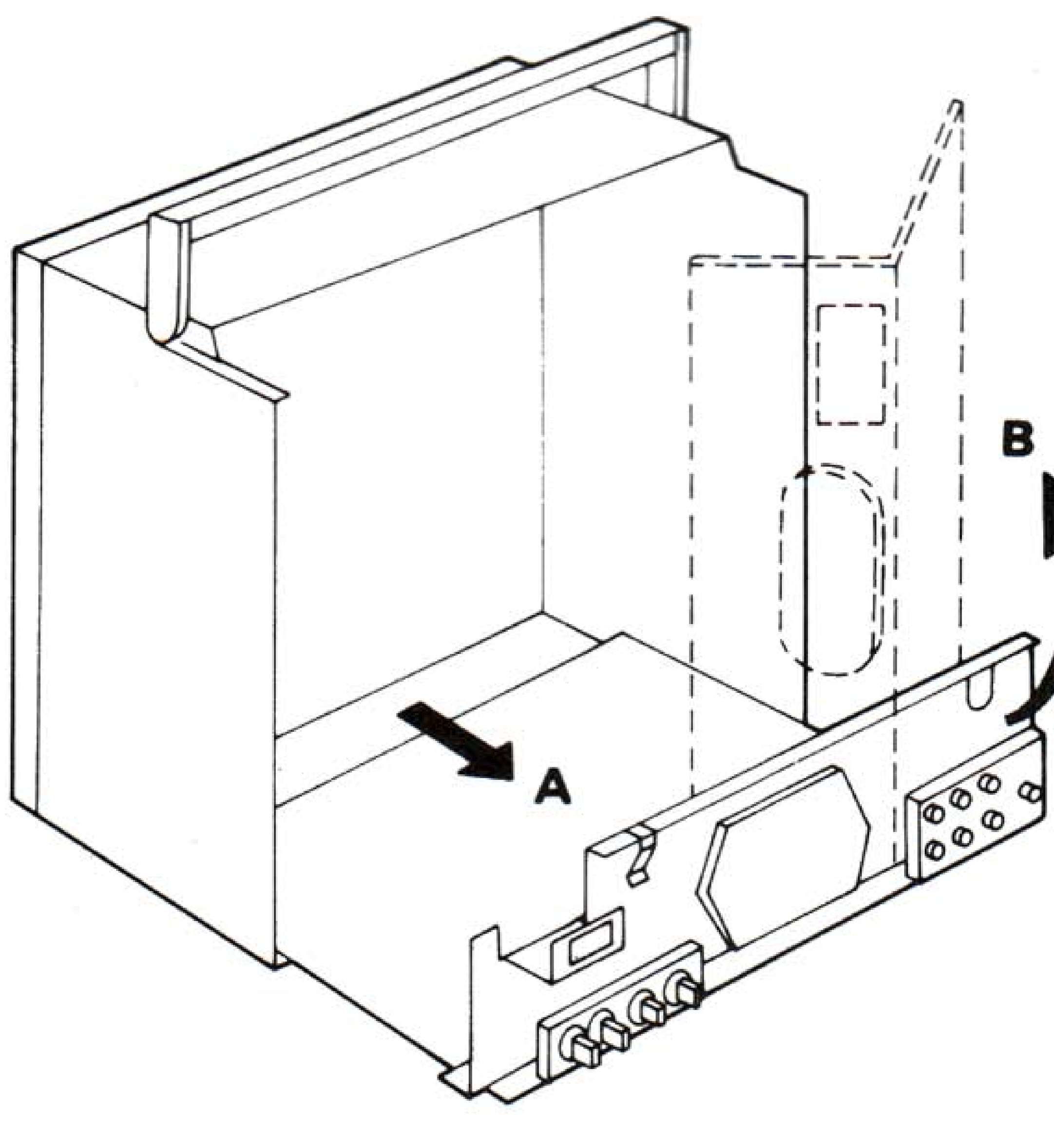
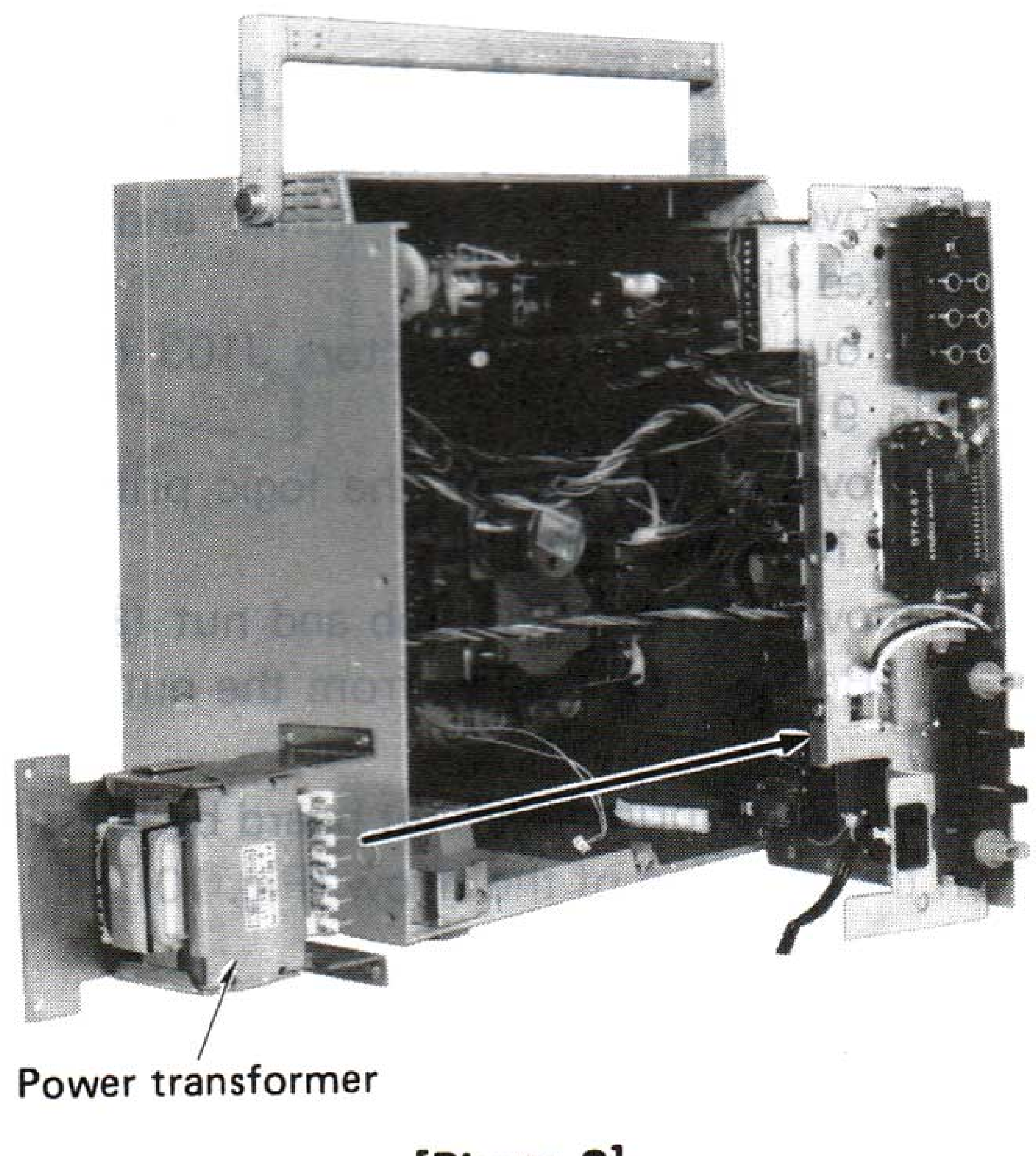


Fig. 5



[Photo 2]

● How to remove and mount the tuner printed circuit board (A printed board)

1. Remove the rear cover.
2. Set the dial pointer to "start point" position (See Fig. 6) and secure the drum using the latch attached to the drum clamp as shown in Fig. 7.
3. Loosen the setscrew of the drum.
4. Remove 2 setscrews (Fig. 8 : ㉓, ㉔) of the tuner printed circuit board clamp and pull out the tuning gang from the drum. (See Fig. 7.)
5. Remove 2-pin socket of J110 (K) and wire of the band selector switch (S8) (Fig. 8) from the tuner printed circuit board, and the printed circuit board from the chassis to check of adjust.
6. When mounting the printed circuit board, attach the 2-pin socket J110 (K) and wire of the band selector switch (S8) to the original position and insert the tuning gang into the drum, turning it clockwise (minimum frequency and maximum capacity).
7. After the fine adjustment of indicator start point position (Fig. 6) and the tuning gang position, fasten the drum setscrew.

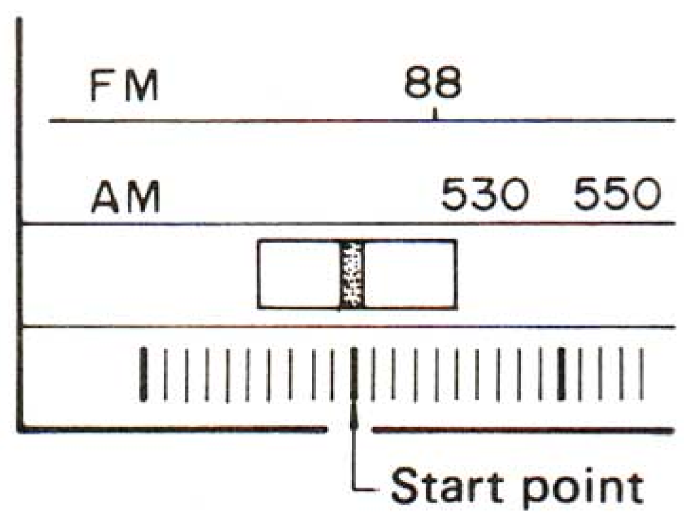


Fig. 6

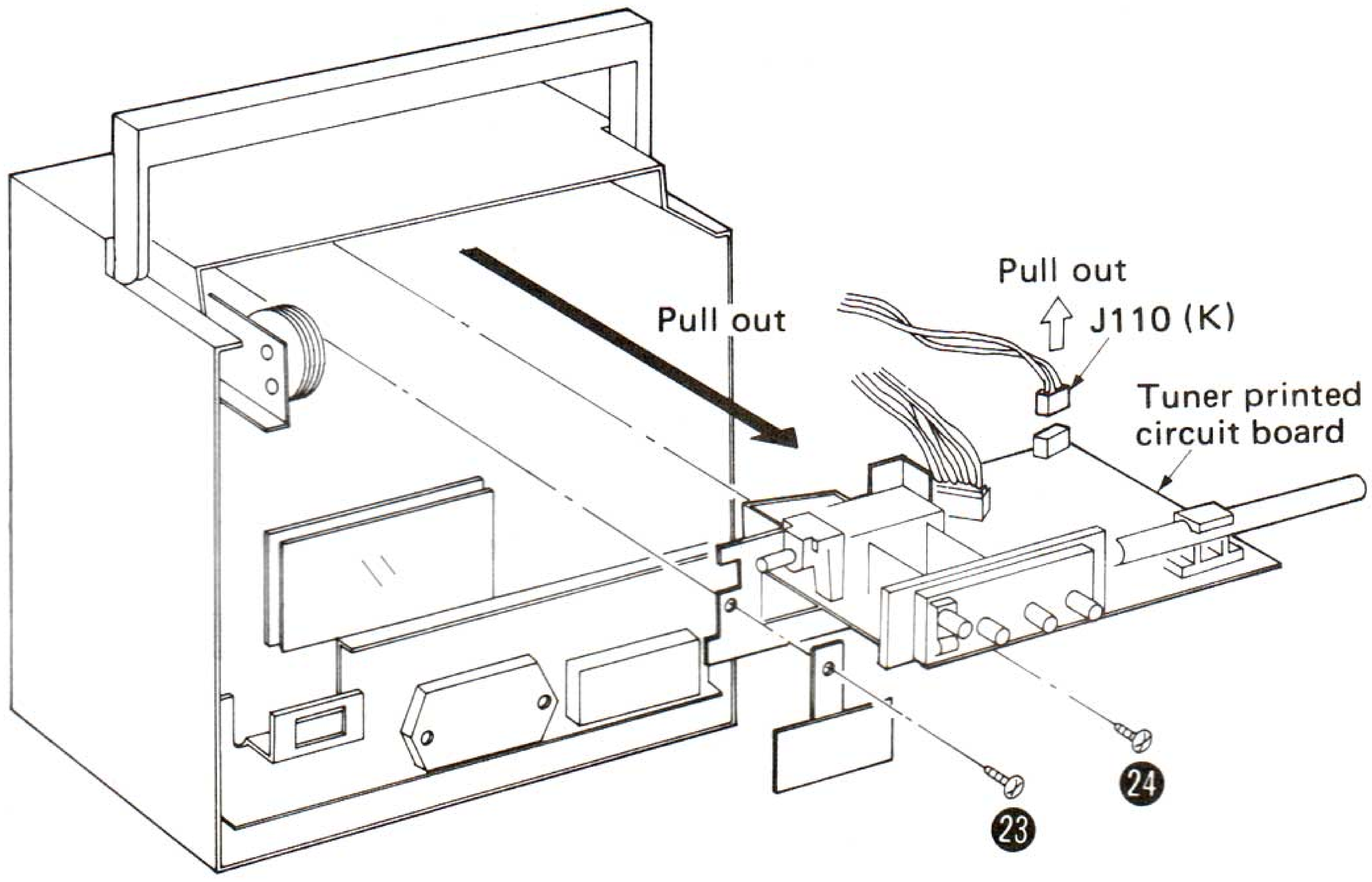


Fig. 8

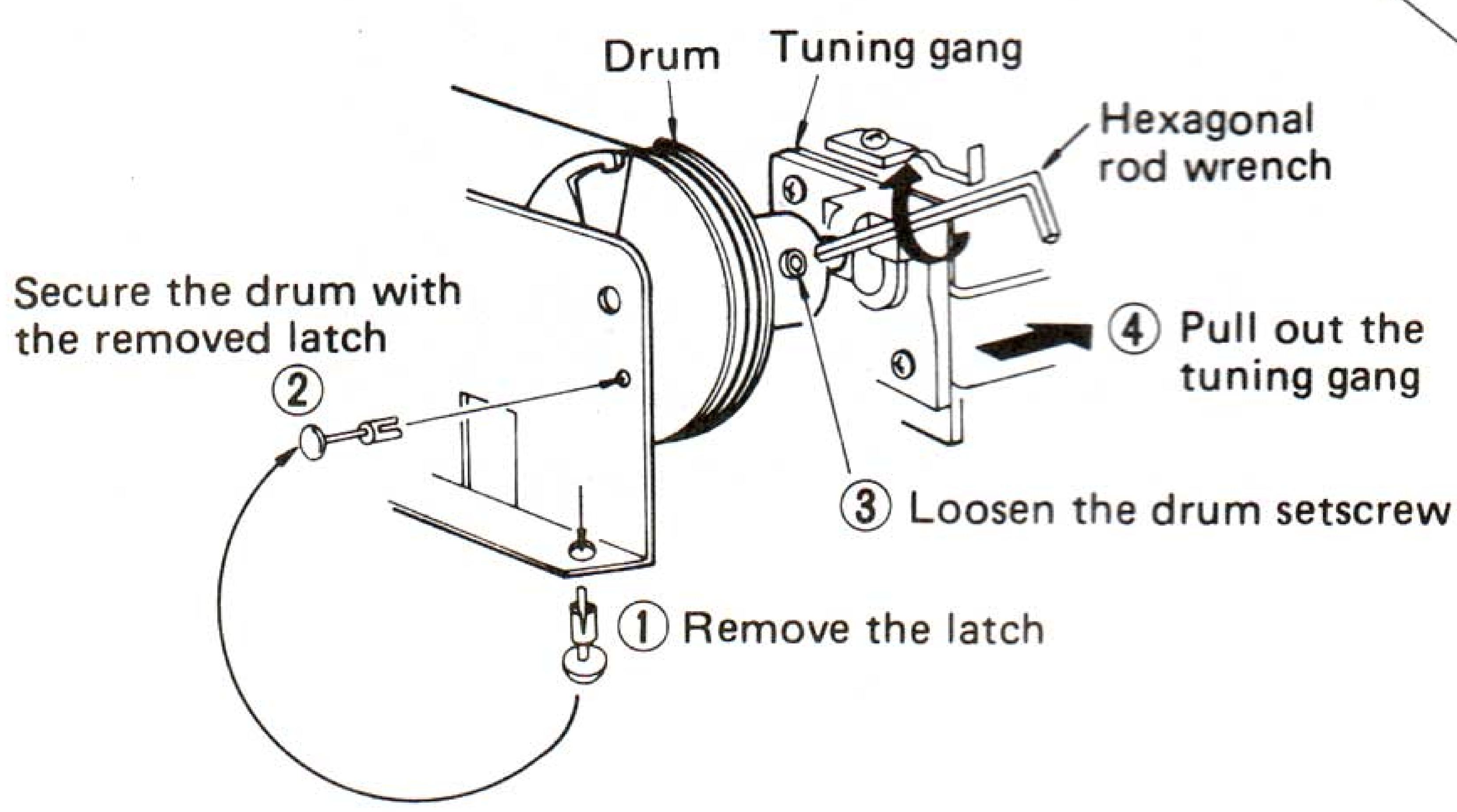


Fig. 7

● How to remove the logic printed circuit board (B printed board)

1. Remove the rear cover, tuner and power amplifier printed circuit boards.
2. Pull out the lead connectors J103 (D) and J102 (C). (Fig. 9)
3. Remove 7 setscrews of the logic printed circuit board (Fig. 10 : ㉕ ~ ㉛).
4. Remove the rec level knob and nut ③ as shown in Fig. 3. (Remove the washer from the nut by using a pincette.)
5. Remove the printed circuit board by pressing the 5 claws in the direction of the arrow (Fig. 10).

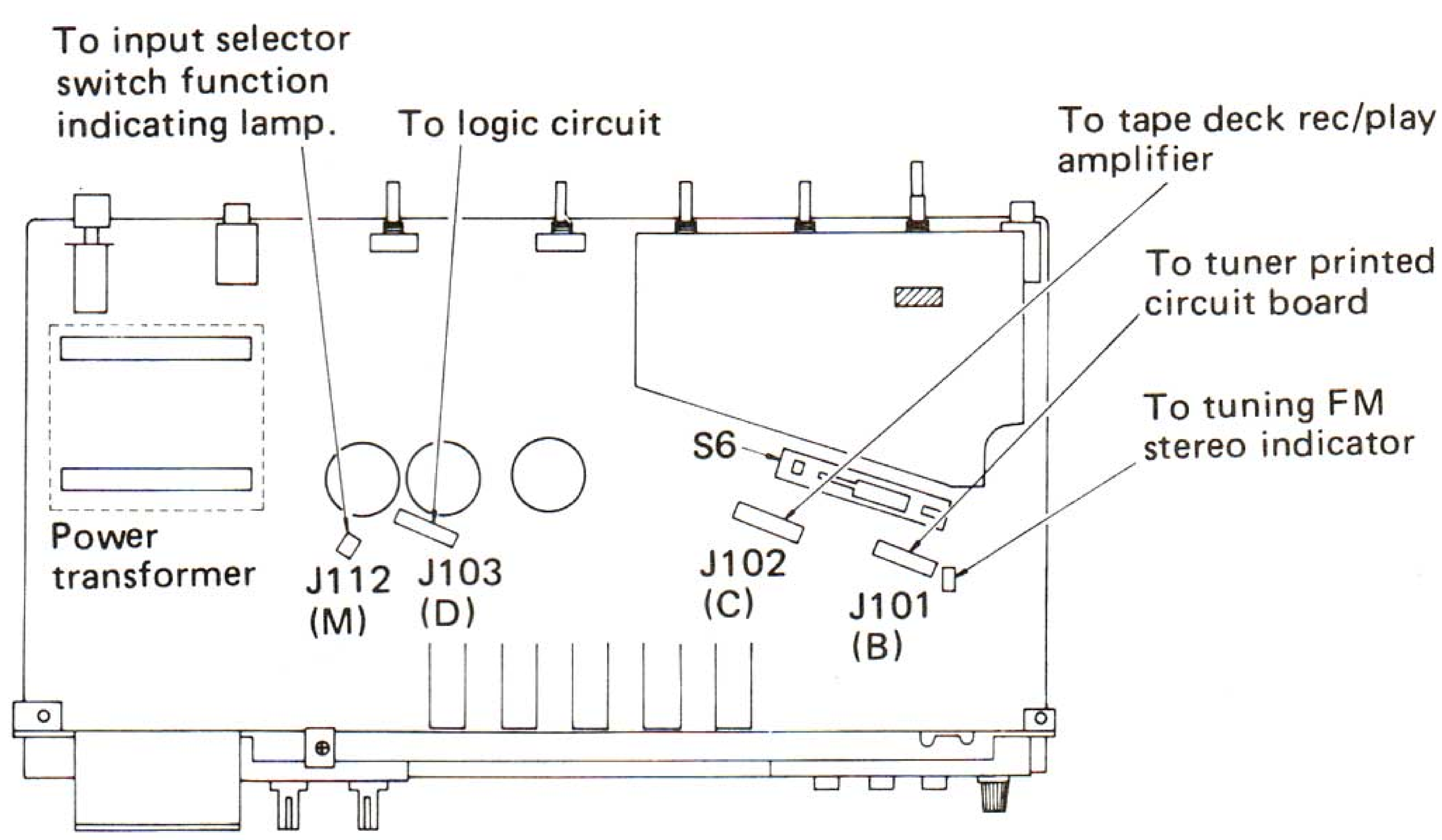


Fig. 9

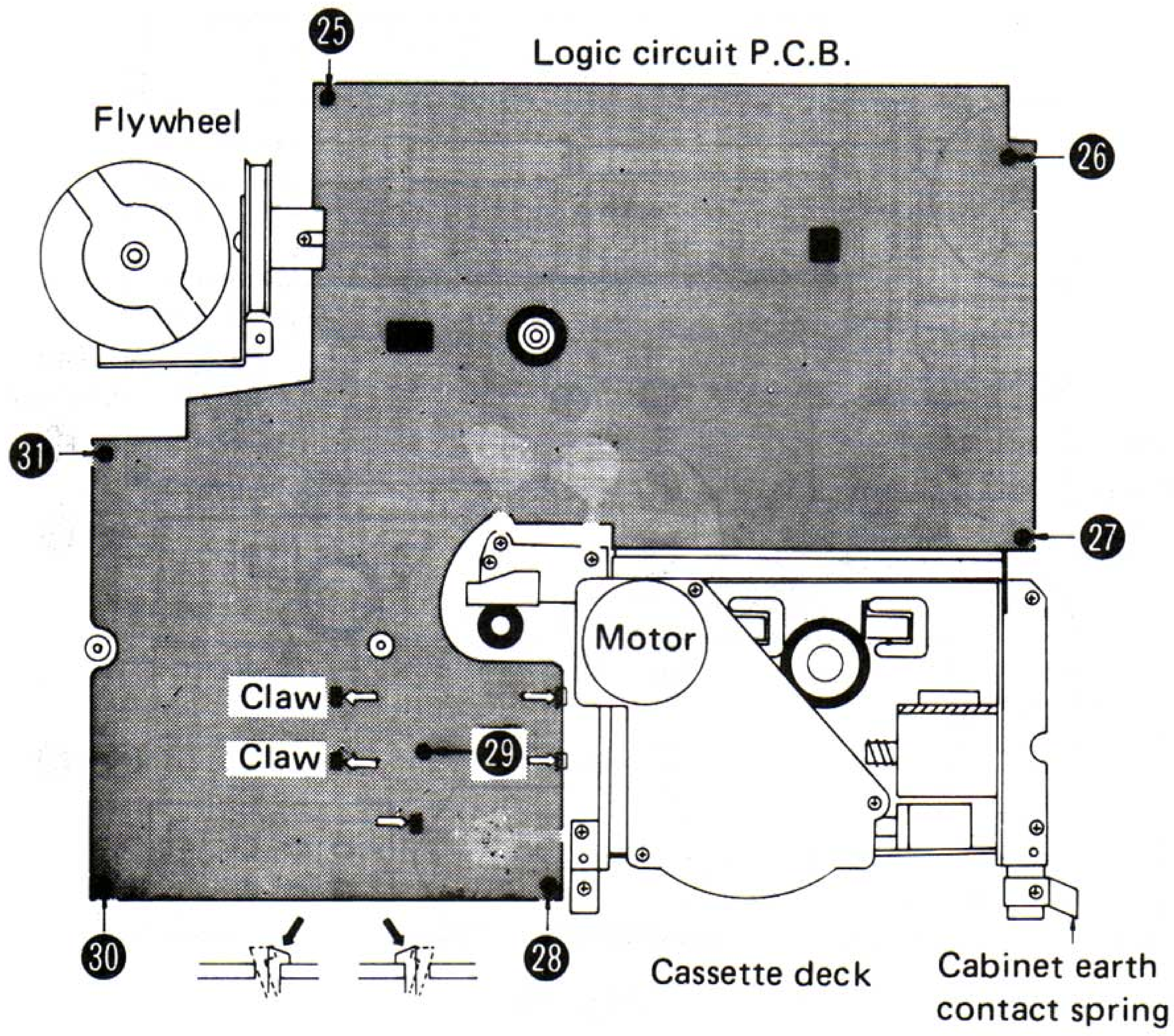


Fig. 10

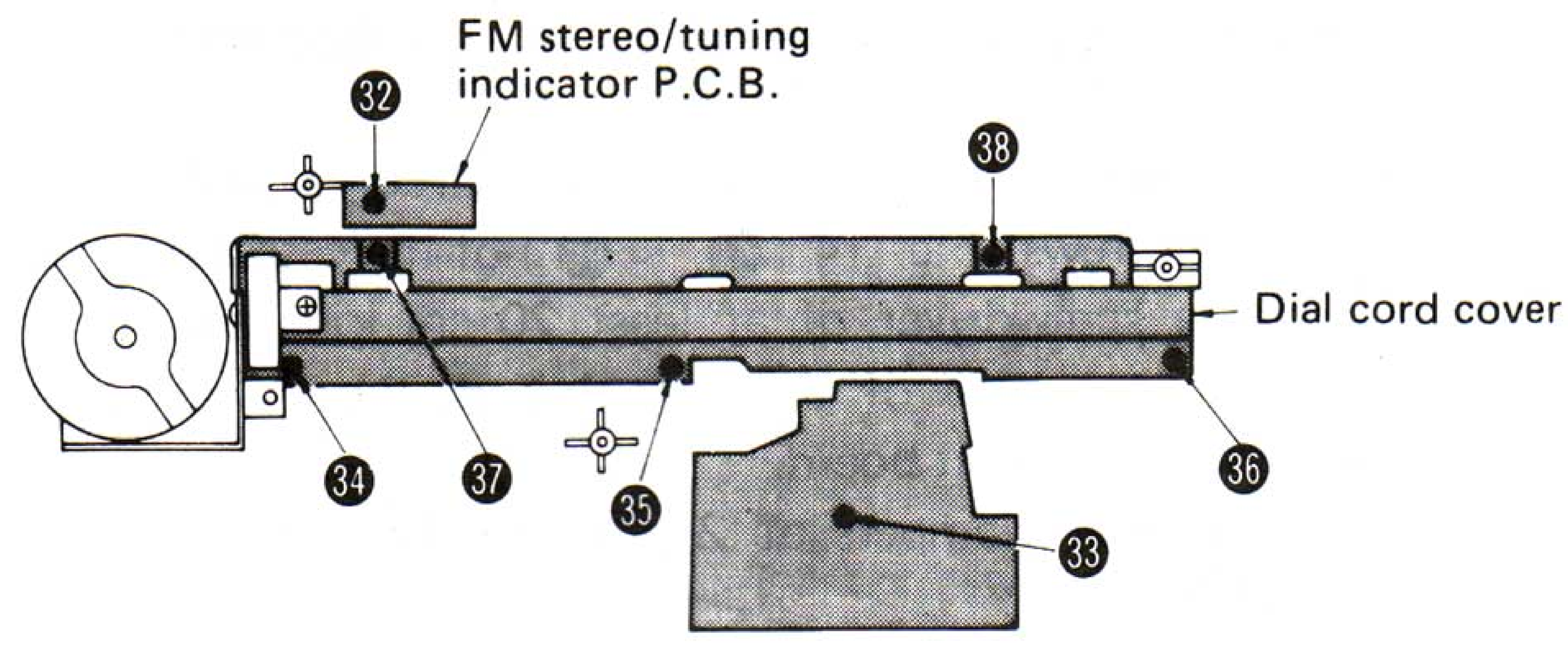


Fig. 11

• How to remove FL (D printed board) and FM stereo, tuning indicator printed board

1. Remove the logic printed circuit board.
2. Remove each of the setscrews which secure the FL printed circuit board and FM stereo/tuning indicator printed circuit board. (Fig. 11 : 32 , 33)

• How to remove the dial drive unit

1. Remove the rear cover, tuner, power amplifier and logic printed circuit boards.
2. Remove 3 setscrews of the dial cord cover (Fig. 11 : 34 ~ 36) and detach the cord cover.
3. Remove 2 setscrews of dial drive unit. (Fig. 11 : 37 , 38)
4. Pull out the tuning knob.
5. Remove 3 setscrews (Fig. 12 : 39) of the flywheel.
6. Remove the dial drive unit.

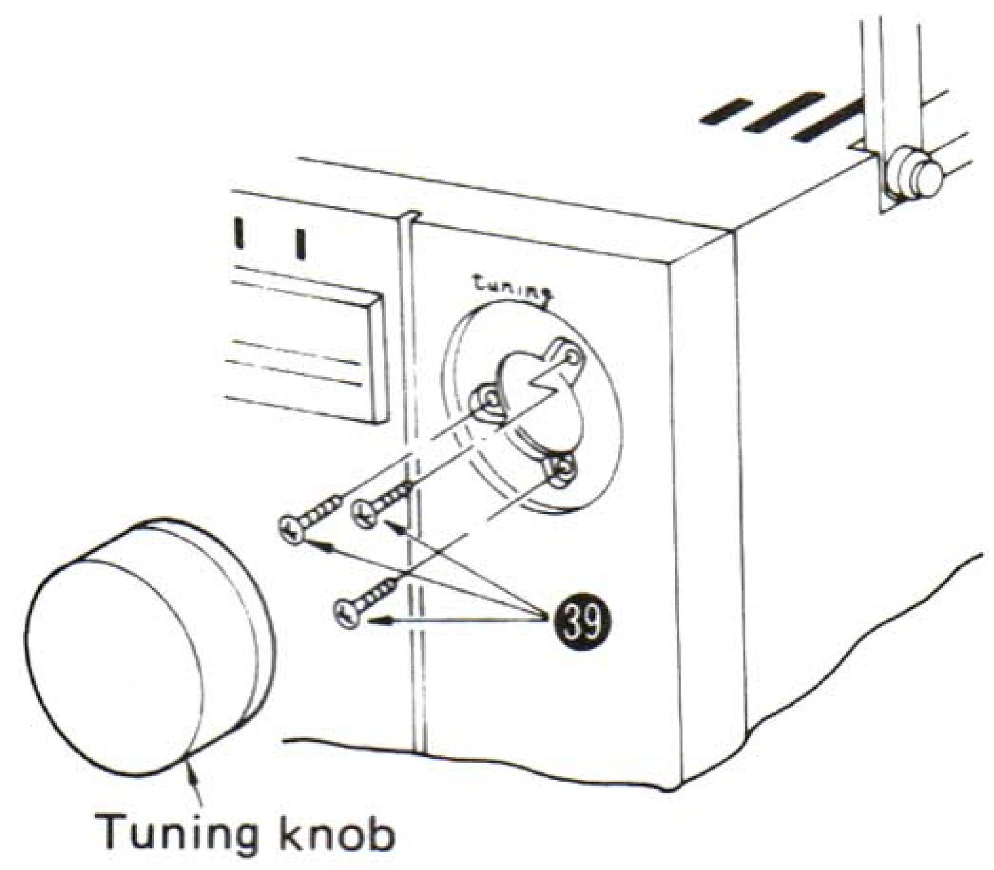


Fig. 12

• How to remove the fancy plate and smoke plate of cassette holder

1. Detach the fancy plate from the cassette holder as in Fig. 13 . (Attach the plate as shown in Fig. 13-D.)
2. Remove 2 setscrews (Fig. 13 : 40) at the front bottom of the smoke plate and detach the plate.

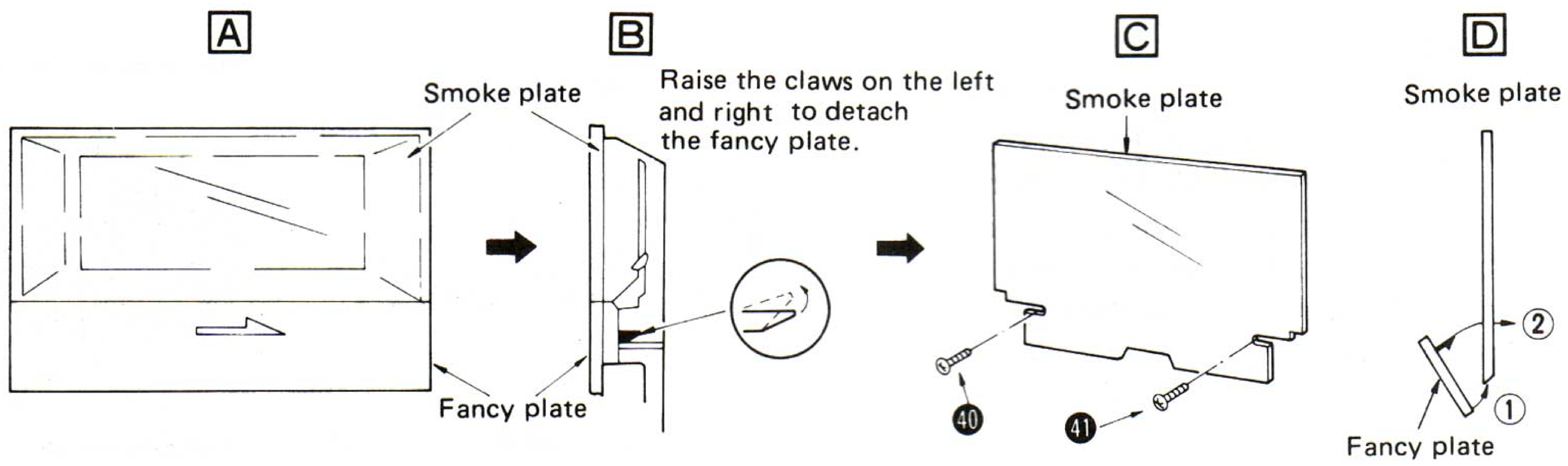


Fig. 13

• How to remove the cassette deck and cassette holder

1. Remove the rear cover and fuses printed circuit board.
2. Remove 6 setscrews (Fig. 14 : 41 ~ 46) of the cassette deck. Use a screwdriver of at least 20 cm long and insert it into the hole of the heat-sink of the power amplifier printed circuit board.
3. Cut off the lead clampers at 2 positions by nippers (Fig. 14 : 47 , 48)
4. Remove the wire of the input selector switch (S6) on the power amplifier printed circuit board and the lead connectors J112, J102, J103 and J111 of the input function indicating lamp. (See Fig. 9)
5. Draw out the cassette deck backward.
6. The cassette holder is fitted in the deck clamp as shown in Fig. 15. Remove it by shifting the clamp out of the hole by using a flat head screwdriver as shown in Fig. 15.

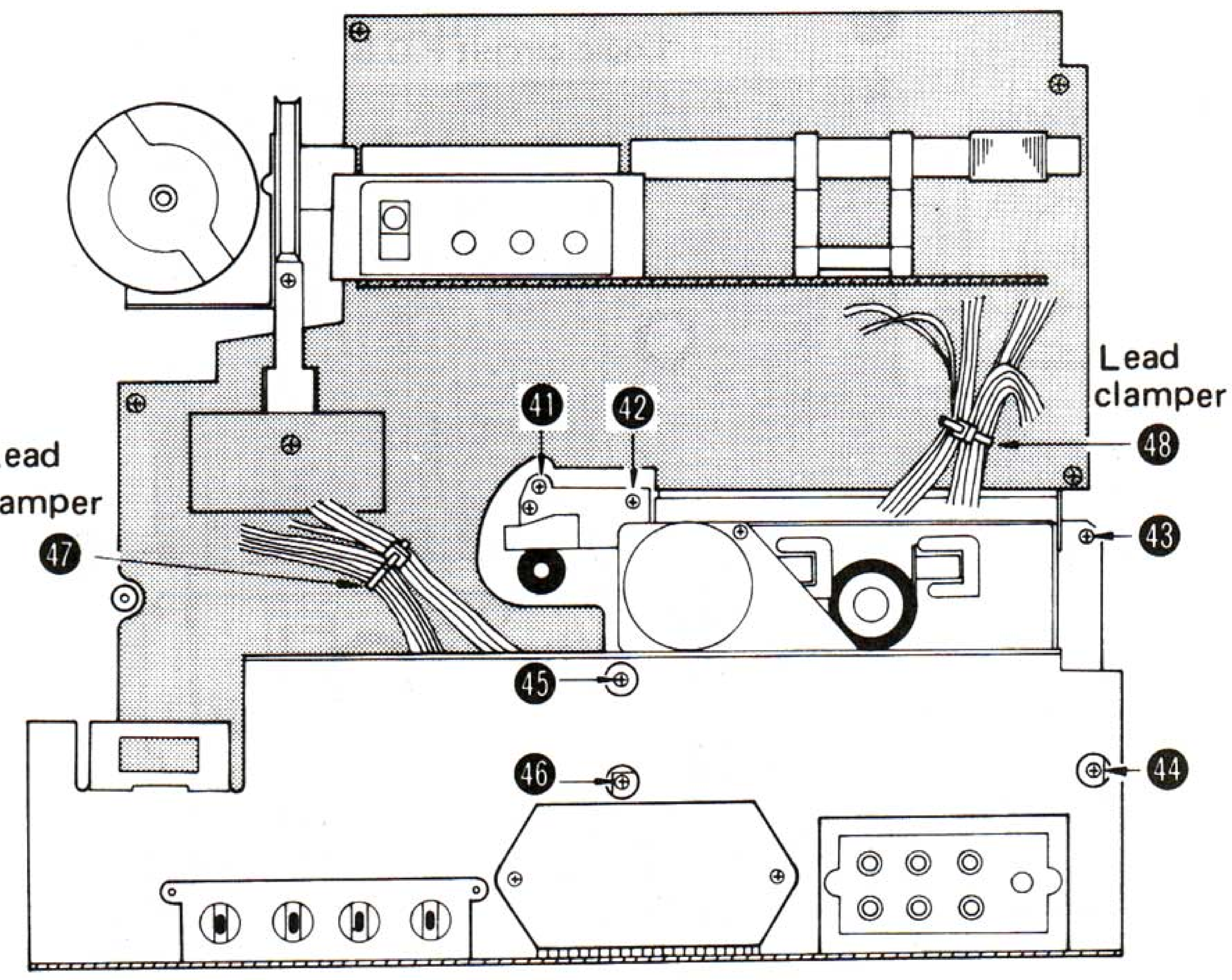


Fig. 14

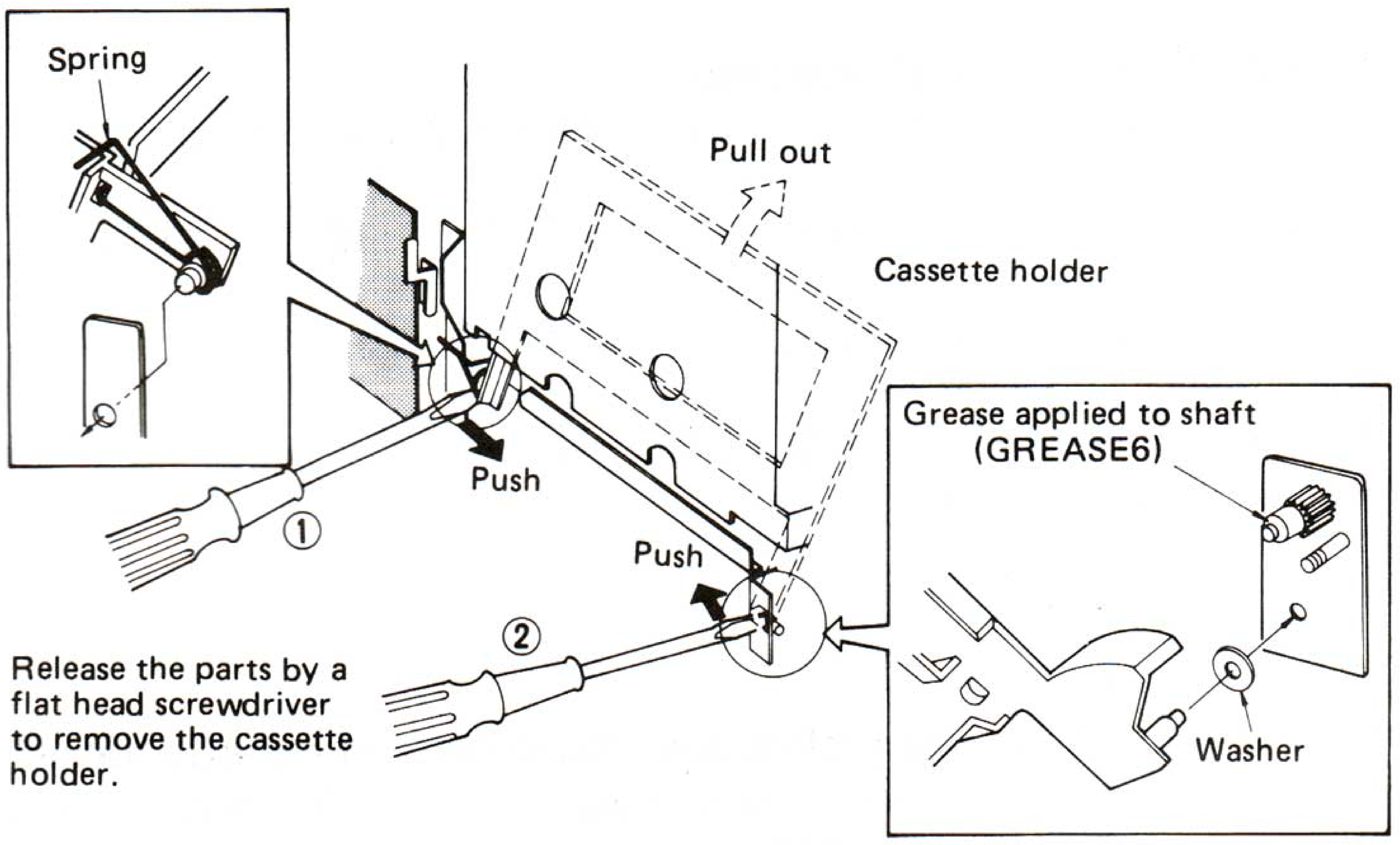


Fig. 15

• Earth Wire Connection

The earth wires from the input selector switch and logic printed circuit board are connected to the cassette deck setscrew (Fig. 14 : 41) as shown in Fig. 16. Remember to connect the earth wires when mounting the cassette deck.
Also, the conductive paint applied on the inside of the cabinet is grounded by the plate spring at the bottom right of the cassette deck clamp as shown in Fig. 14.

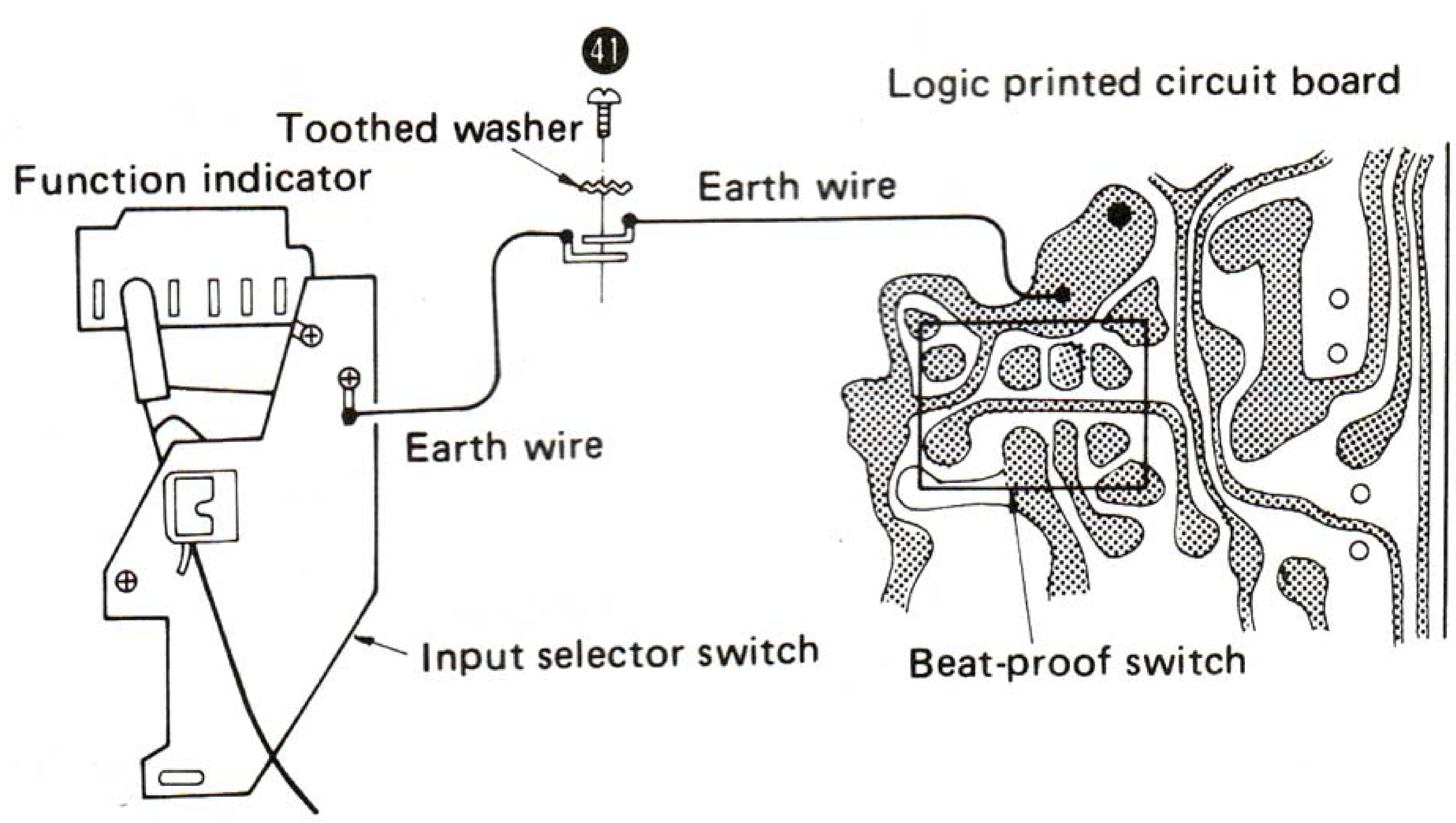


Fig. 16

• Dial cord installation guide

1. Secure the drum with the latch attached to the drum clamp.
2. Set the dial cord in the order of 1 – 5 in Fig. 17. (The cord should be about 130 cm long.)
3. After setting the dial cord, set the sprint so that it is about 1.5 times longer than the original length.
4. This drum position corresponds to the minimum frequency point. So, when attaching the dial pointer to the dial cord, match the left end of the dial pointer with ▼-mark on the left end of the pulley clamp as viewed from the front.

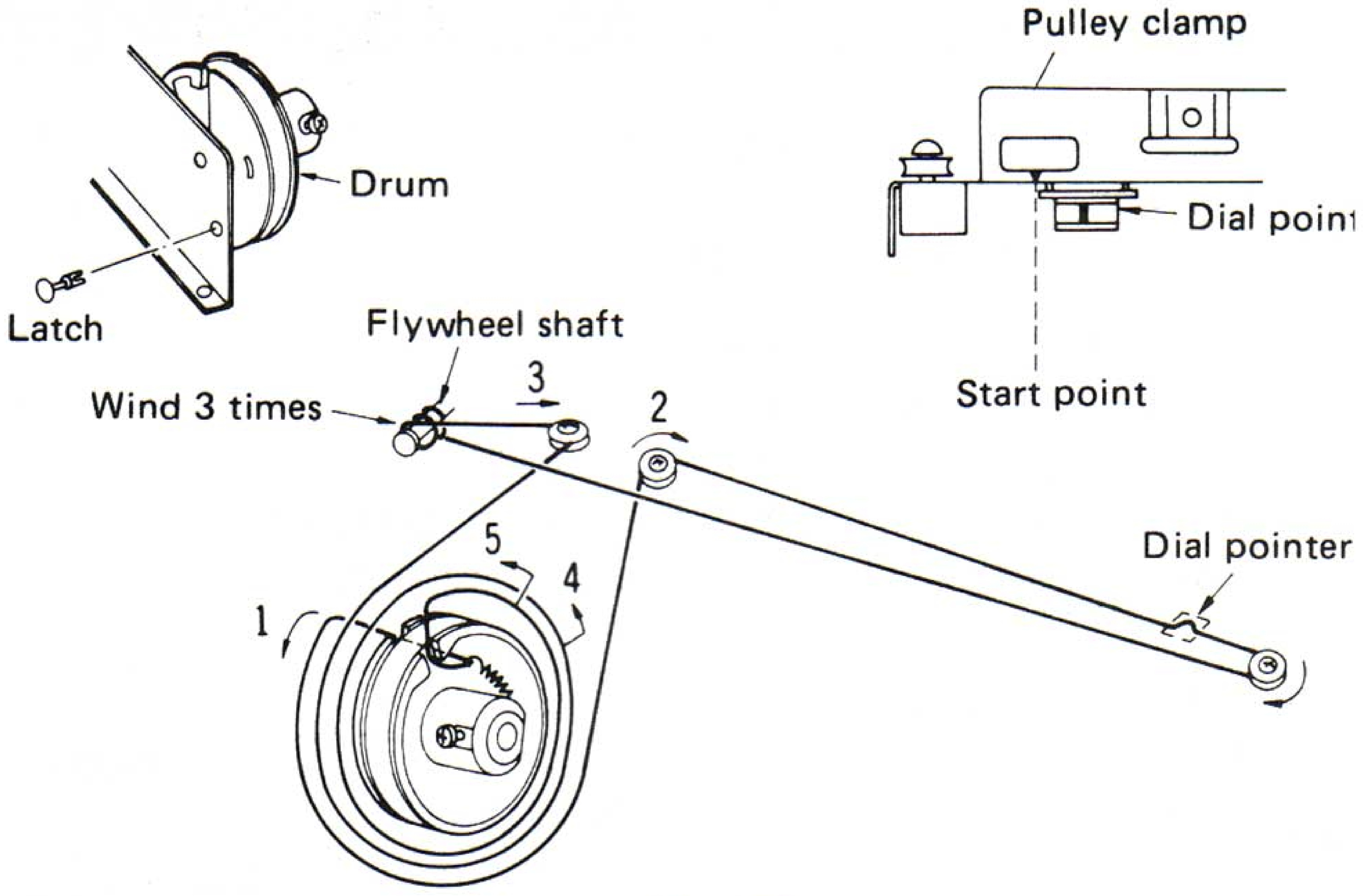


Fig. 17

• How to replace chips (resistor, capacitor and jumper)

1. Unsolder from chip by using solder sucker.
2. Remove chip with tweezers by rotating it while removing solder as shown in Fig. 18.
3. Solder circuit board first and then solder chip in the direction of the arrow as shown in Fig. 19.

Notes:

1. Do not use chip again which is removed from printed circuit board.
2. Use lead wire with insulator for replacement instead of chip jumper.

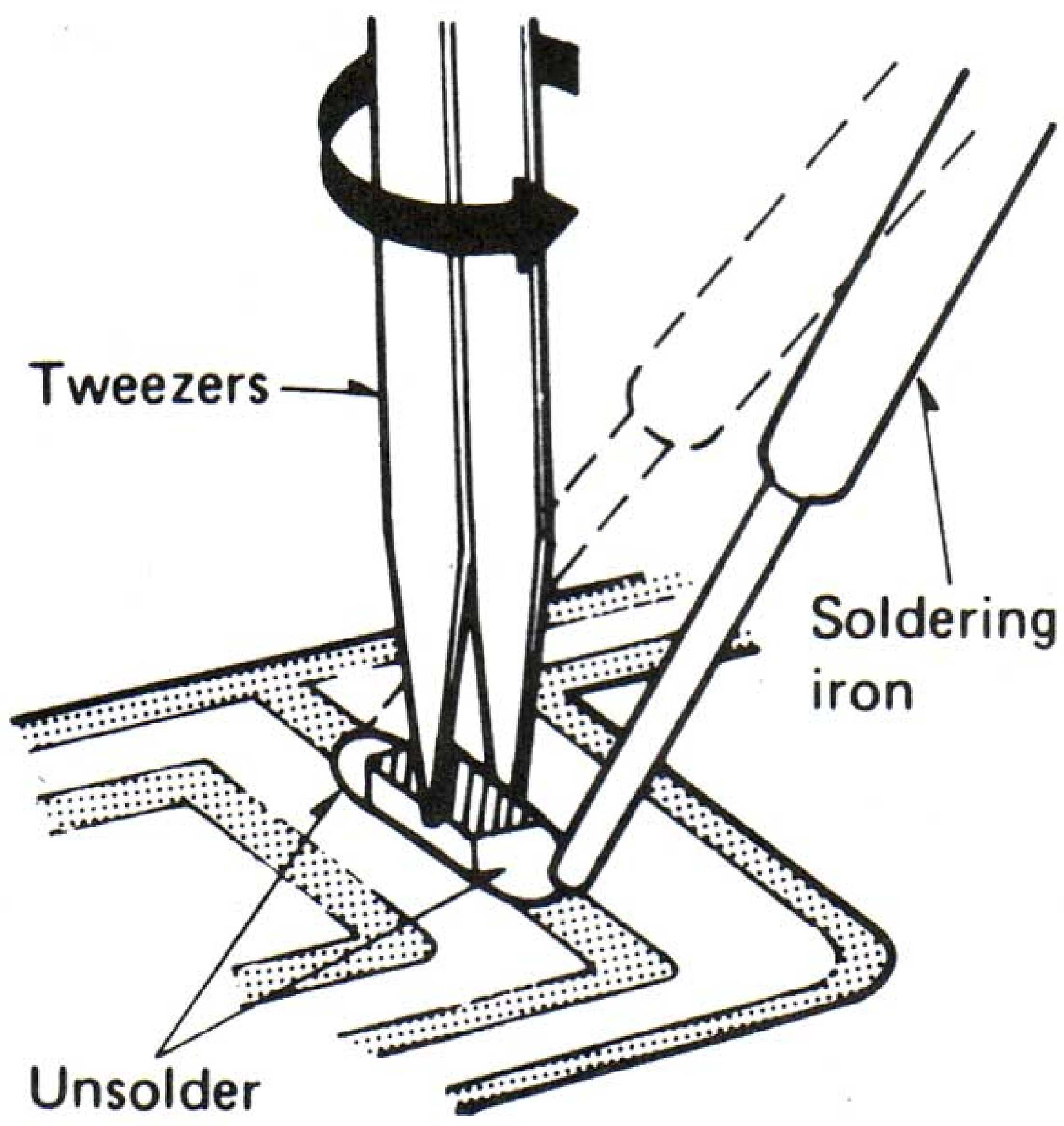


Fig. 18

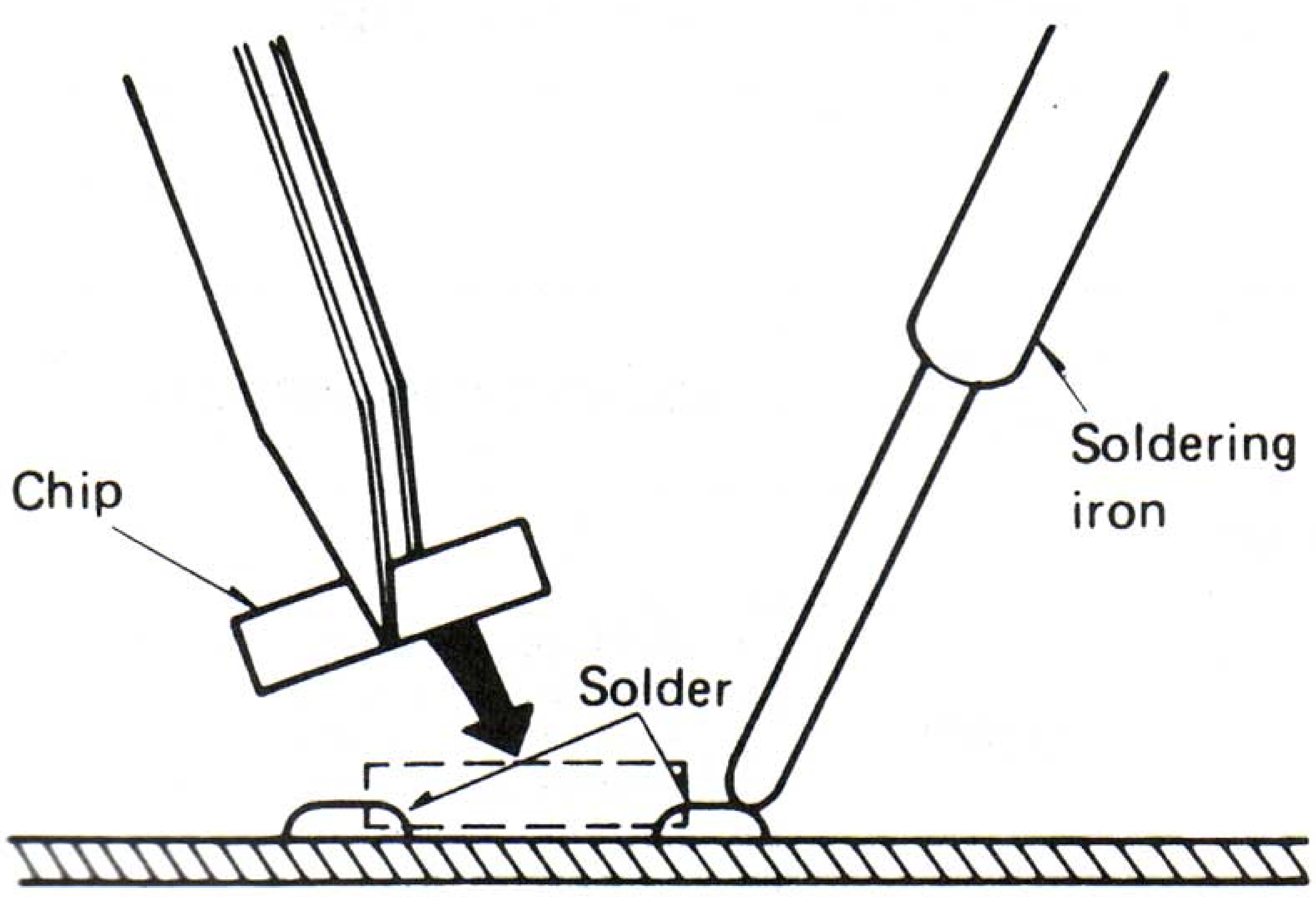


Fig. 19

• Note for replacing chips

1. Do not heat chips more than three (3) seconds.
2. Be careful not to damage the electrode of chips.
3. Use soldering iron (less than 60W) and tweezers fo replacing chips.

• Precautions for repair

When frequency is not indicated, FL (display tube), FL driver, digit circuit, and micro-computer must be checkec by oscilloscope.
In this case, take care not to allow short circuit between IC terminals or application of voltage from measuring instrument to IC terminals.

MEASUREMENTS AND ADJUSTMENTS

FM TUNER ADJUSTMENT

*** Setting and Equipment used**

1. AC electronic voltmeter (VTVM)
2. AM signal generator (AM-SG)
3. Maintain line voltage at rated voltage.
4. Output of signal generator should be no higher than necessary to obtain an output reading.
5. Use a non-metal screwdriver for the adjustment.
6. Set input selector to "AM" position.

Step No.	AM SIGNAL GENERATOR		DIAL SETTING	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
	CONNECTION	FREQUENCY				
	AM-IF ADJUSTMENT					
1	Connect AM-SG to AM antenna terminal through 200pF capacitor. Common to chassis. (Powerful input)	450 kHz (30% Mod. with 400 Hz)	Frequency of non-inter-ference.	Connect AC VTVM or scope to "speaker" terminals of the set.	T202 (1st IFT) T203 (2nd IFT)	* Adjust the input frequency and adjustment points so that the output becomes maximum.
	AM-RF ADJUSTMENT					
2	Connect AM-SG to AM antenna terminal through 200pF capacitor. Common to chassis. (Weak input)	600 kHz (30% Mod. with 400 Hz)	600 kHz	Connect AC VTVM or scope to "speaker" terminals of the set.	T204 (OSC Coil) L201 (ANT Coil)	Adjust for maximum output.
3		1500 kHz (30% Mod. with 400 Hz)	1500 kHz	Connect AC VTVM or scope to "speaker" terminals of the set.	CT202 (OSC Trimmer) CT201 (ANT trimmer)	Adjust for maximum output. Repeat steps (2) and (3).

FM TUNER ADJUSTMENT

*** Equipment used**

1. FM signal generator (FM-SG).
2. Stereo modulator
3. Oscilloscope
4. DC electronic voltmeter (VTVM)
5. Frequency counter (19 kHz measurable)
6. FM 300Ω dummy antenna (Fig. 21)

*** Preparation of FM signal generator (FM-SG)**

1. Connect stereo modulator to FM-SG.
2. Apply SG output to antenna terminal of the set through 300Ω FM dummy antenna.
3. The standard input of the set is 60 dB dummy antenna, SG output must be 12 dB plus (IHF). That is, when input is 60 dB, SG output is to be 72 dB.

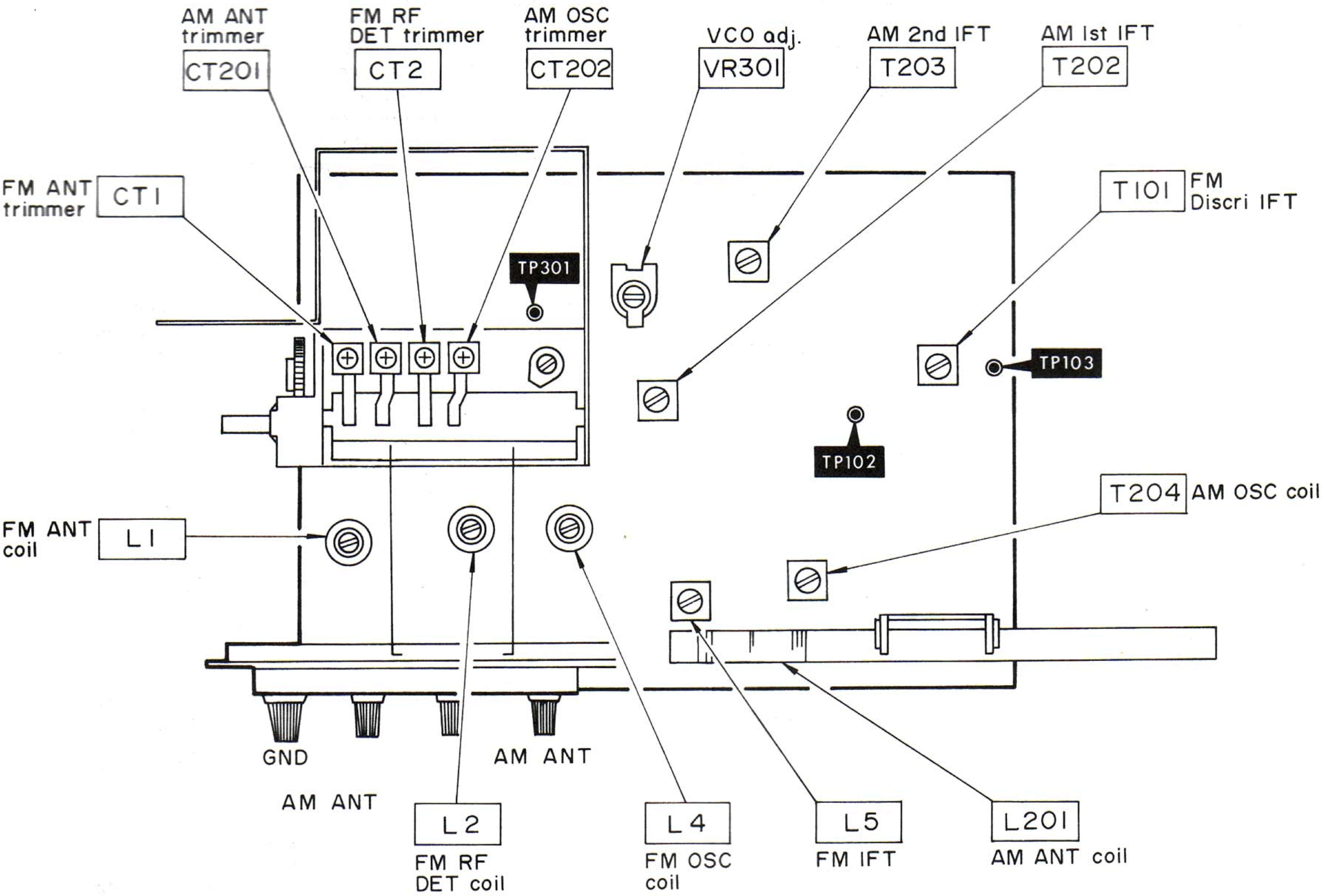
*** Setting**

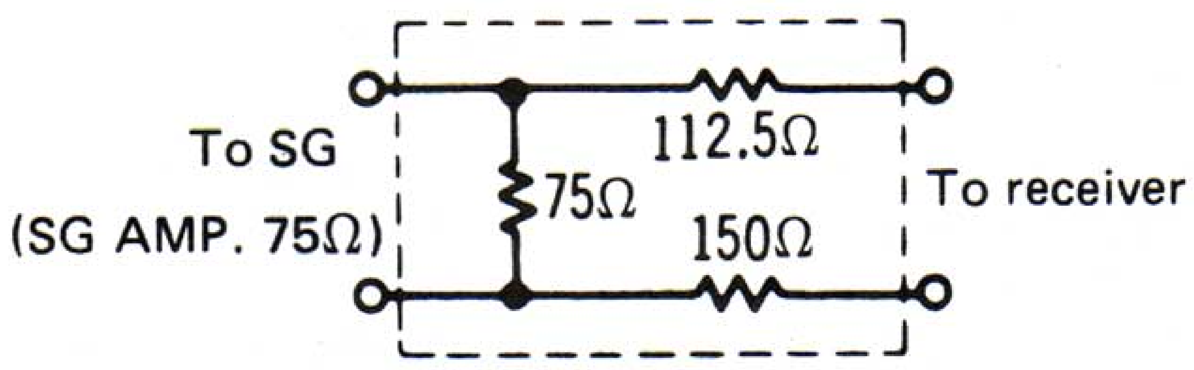
1. Set input selector to "FM mono" position.

Step No.	FM SIGNAL GENERATOR		DIAL SETTING	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
	CONNECTION	FREQUENCY				
	FM-IF ADJUSTMENT					
1	Connect FM-SG to FM antenna terminal through 300Ω FM dummy antenna.	100 MHz (100% Mod. with 400 Hz) weak input	100 MHz	Connect scope to "speaker" terminals of the set.	L5 (FM IFT)	1. Add weak input so that noise is included in the output wave form. 2. Make the adjustment so that the output wave form is vertically symmetrical.
	———	No-signal	Point of non-inter ference.	Connect DC VTVM between TP102 and TP103 through choke coil. (Refer to Fig. 22)	T101 (Discri. IFT)	Adjust T101 core so that voltage measured in signal mode is 0V in 300 mV range.
	FM-RF ADJUSTMENT					
2	Connect FM-SG to FM antenna terminal through 300 Ω FM dummy antenna.	90 MHz (100% Mod. with 400 Hz) weak input	90 MHz	Connect scope to "speaker" terminals of the set.	L4 (OSC Coil) L2 (RF DET Coil) L1 (ANT Coil)	1. Add weak input so that noise is included in the output wave form. 2. Make the adjustment so that the output wave form is vertically symmetrical. Refer to Fig. 23. 3. Repeat the steps (2) and (3) until the frequency correctly matches the dial scale.
3		106 MHz (100% Mod. with 400 Hz) weak input	106 MHz	Connect scope to "speaker" terminals of the set.	CT2 (RF DET Trimmer) CT1 (ANT Trimmer)	

Step No.	FM SIGNAL GENERATOR CONNECTION	FM SIGNAL GENERATOR FREQUENCY	DIAL SETTING	PREPARATIONS	PARTS ADJUSTED	ADJUSTING PROCEDURE
	FM MPX PILOT (VCO) ADJUSTMENT					
4	Connect FM-SG to FM antenna terminal through 300 Ω FM dummy antenna. (Standard input)	100 MHz (Non-modulated)	100 MHz	Connect frequency counter to TP301 through resistor (100kΩ)	VR301 (VCO)	1. Set the input selector to "FM auto" position. 2. Adjust VR301 to 1.9 kHz ± 30 Hz.

- **Adjustment points (tuner)**





300Ω FM dummy Antenna

Fig. 21

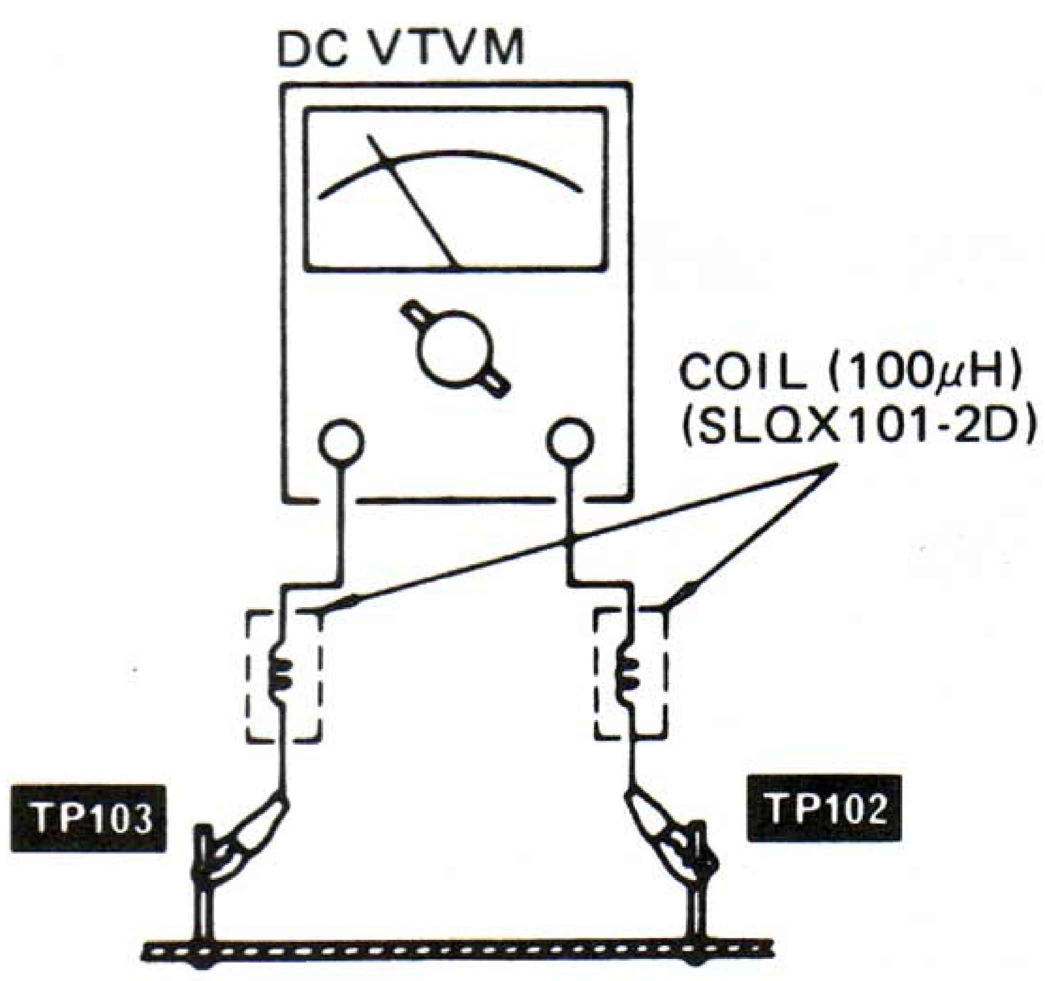
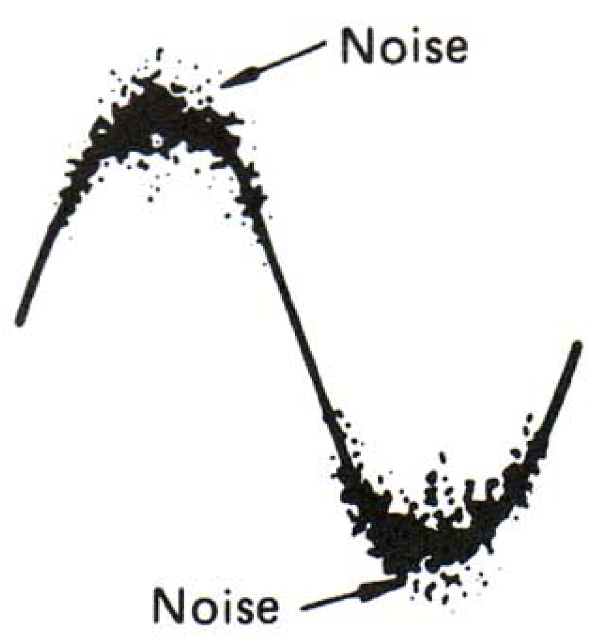


Fig. 22



AF output wave form

Fig. 23

CASSETTE DECK ADJUSTMENT

* Equipment used

1. AC electronic voltmeter (VTVM).
2. Oscilloscope
3. Frequency counter
4. AF oscillator
5. Metal Tape

* Test tape

QZZCFM
QZZSRKCT (Take-up torque meter)

* Setting

1. Volume control . . . . 0 (minimum)
2. Balance control . . . . 0 (center)
3. Bass tone control . . . . 0 (center)
4. Treble tone control. . . . . 0 (center)
5. Mic. mixing control. . . . . center
6. Input selector . . . . tape
7. Beat proof . . . . A
8. Dolby NR . . . . out
9. Tape selector . . . . normal (Normal position if not specified.)
10. Recording level control. . . . . . 10 (maximum)
11. Timer stand-by . . . . off
12. Tape program selector . . . . . . .off

<table>
<tr><th>No.</th><th>ADJUSTMENTS</th><th>VTVM CONNECTION</th><th>PARTS ADJUSTED</th><th>ADJUSTING PROCEDURE</th></tr>
<tr><td>1</td><td>Head azimuth</td><td>(L channel)
• Connect positive side to TP803 and connect negative side to earth (ground)— See fig. 24.
(R channel)
• Connect positive side to TP804 and connect negative side to earth (ground)— See fig. 24.</td><td>Record/playback head angle adjustment screw.
(Refer to fig. 28)</td><td>1. Play azimuth tape (QZZCFM 8 kHz.)
2. Adjust record/playback head angle adjustment screw. So that output level becomes maximum.
3. Measure both channels and adjust levels for equal output.
4. After adjustment lock head adjustment screw with lacquer.</td></tr>
<tr><td>2</td><td>Erase current</td><td>• Connect positive side to TP806 and connect negative side to TP807 (ground)— See fig. 25.</td><td>Z901</td><td>1. Set the tape selector switch to "metal" position.
2. Beat proof switch to "A" position.
3. Shift the unit into recording mode.
4. Make sure the output is 350 ~ 500 mV.
5. If the output is less than 350 mV, lower the oscillation frequency by Z901.
<table><tr><th>Tape selector position</th><th>Voltage</th></tr><tr><td>Metal</td><td>350 ~ 500 mV</td></tr><tr><td>CrO_2</td><td>220 ~ 310 mV</td></tr><tr><td>Normal</td><td>150 ~ 210 mV</td></tr></table></td></tr>
<tr><td rowspan="2">3</td><td rowspan="2">Record bias</td><td>• Connect positive side to TP801 and connect negative side to TP805 (ground) — See fig. 26.</td><td>VR901 (L channel)</td><td rowspan="2">1. Set the tape selector switch to "normal" position.
2. Shift the unit into recording mode.
3. Adjust VR901 and VR902 for 3.5 mV reading on VTVM.
<table><tr><th>Tape selector position</th><th>Voltage</th></tr><tr><td>Metal</td><td>6.7 ~ 11 mV</td></tr><tr><td>CrO_2</td><td>4.4 ~ 7.3 mV</td></tr><tr><td>Normal</td><td>2.6 ~ 4.4 mV</td></tr></table></td></tr>
<tr><td>• Connect positive side to TP802 and connect negative side to TP805 (ground) — See fig. 26.</td><td>VR902 (R channel)</td></tr>
<tr><td rowspan="2">4</td><td rowspan="2">Record bias current</td><td>(L channel)
• Connect AC VTVM of positive side to TP803 and connect negative side to earth (ground).
• Connect the oscillator to the point Ⓐ of VR807.
• Apply 400 Hz signal, and adjust the output of AF oscillator so that the AC VTVM indicates 580 mV.
• Next, connect the AC VTVM between TP801 and TP805.
— See fig. 27.</td><td>VR805</td><td>1. Set the tape selector switch to "metal" position.
2. Shift the unit into recording mode.
3. Adjust VR805 so that the AC VTVM connected between TP801 and TP805 indicates 770 μV.
(Before the adjustment, stop the oscillation by short-circuiting between TP808 and chassis.)
<table><tr><th>Tape selector position</th><th>Voltage</th></tr><tr><td>Metal</td><td>645 ~ 910 μV</td></tr><tr><td>CrO_2</td><td>550 ~ 650 μV</td></tr><tr><td>Normal</td><td>480 ~ 565 μV</td></tr></table></td></tr>
<tr><td>(R channel)
• Connect AC VTVM of positive side to TP804 and connect negative side to earth (ground).
• Connect the oscillator to the point Ⓑ of VR808.
• Apply 400 Hz signal, and adjust the output of AF oscillator so that the AC VTVM indicates 580 mV.
• Next, connect the AC VTVM. between TP802 and TP805 .
— See fig. 27.</td><td>VR806</td><td>1. Set the tape selector switch to "metal" position.
2. Shift the unit into recording mode.
3. Adjust VR806 so that the AC electronic voltmeter connected between TP802 and TP805
(Before the adjustment, stop the oscillation by short-circuiting between TP808 and chassis.)
<table><tr><th>Tape selector position</th><th>Voltage</th></tr><tr><td>Metal</td><td>645 ~ 910 μV</td></tr><tr><td>CrO_2</td><td>550 ~ 650 μV</td></tr><tr><td>Normal</td><td>480 ~ 565 μV</td></tr></table></td></tr>
</table>

No.	ADJUSTMENTS	VTVM CONNECTION	PARTS ADJUSTED	ADJUSTING PROCEDURE
5	Playback frequency response	(L channel) • Connect positive side to TP803 and connect negative side to earth (ground).	VR801	1. Set the tape selector switch to "normal" position. 2. Bring the sliding pieces of semi-fixed resistors (VR803, VR804) to near the center. 3. Playback the test tape (QZZDFM). Then adjust VR801 and VR802 so that 8 kHz signal output becomes 0 dB when the reference frequency output is 125 Hz.
		(R channel) • Connect positive side to TP804 and connect negative side to earth (ground).	VR802	
6	Playback gain	(L channel) • Connect positive side to TP803 and connect negative side to earth (ground).	VR803	1. Set the tape selector switch to "normal" position. 2. Playback the 315 Hz (0 dB) frequency characteristic test tape. Then adjust VR803 and VR804 so that the output becomes 411 mV.
		(R channel) • Connect positive side to TP804 and connect negative side to earth (ground).	VR804	
7	Indicator level	Playback the 315 Hz (0 dB) frequency characteristic test tape. (QZZCFM)	VR807 (L channel)	1. Set the tape selector switch to "normal" position. 2. Adjust VR807 and VR808 so that the "0 dB" indicator light up.
			VR808 (R channel)	

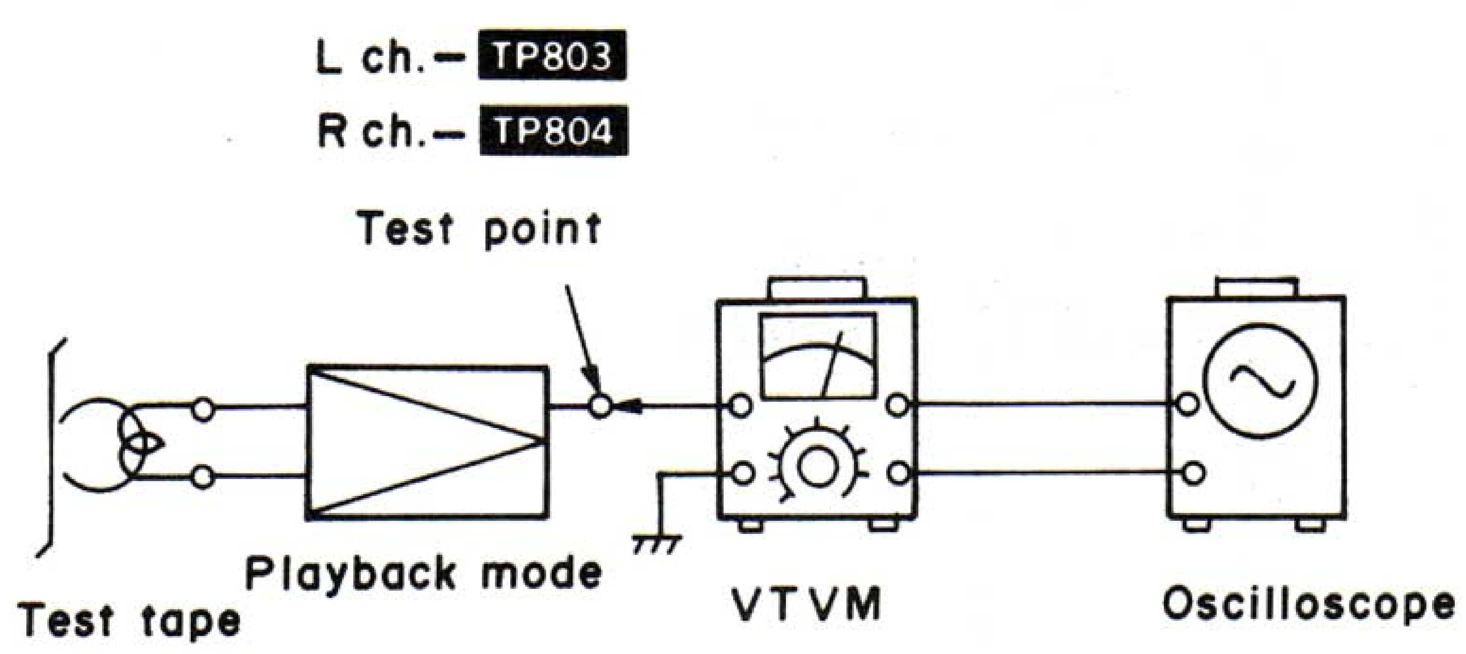


Fig. 24

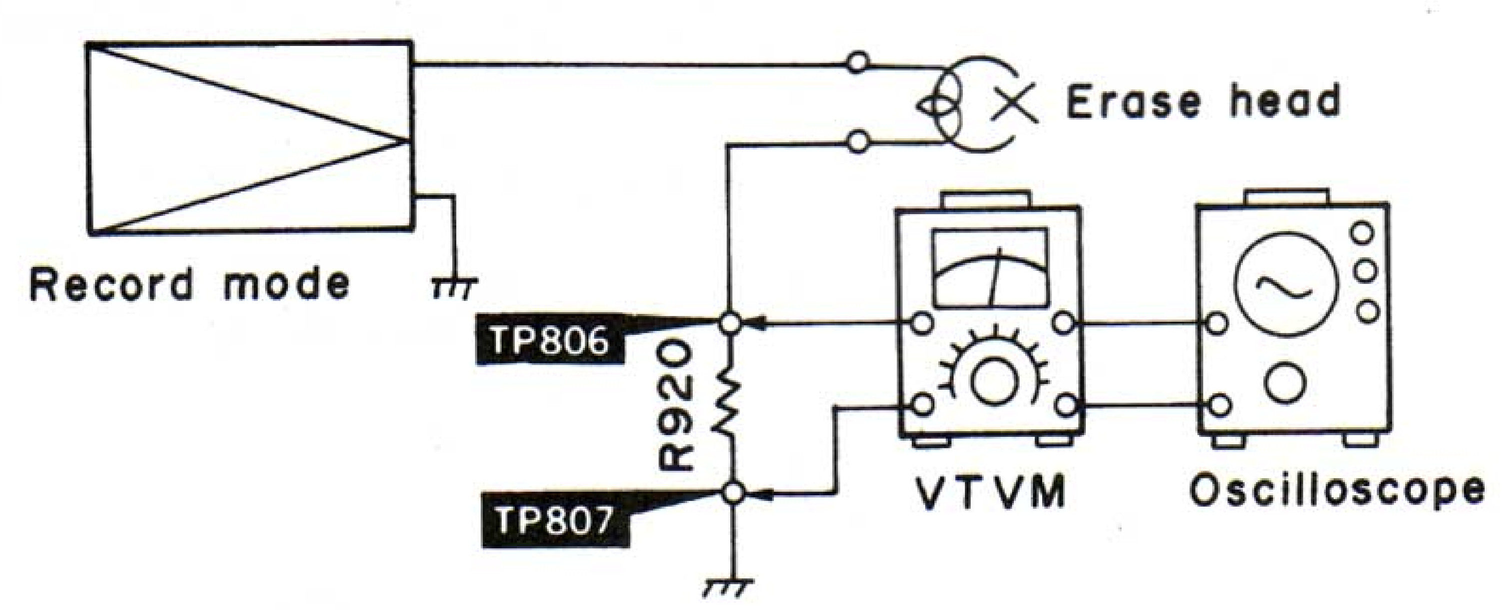


Fig. 25

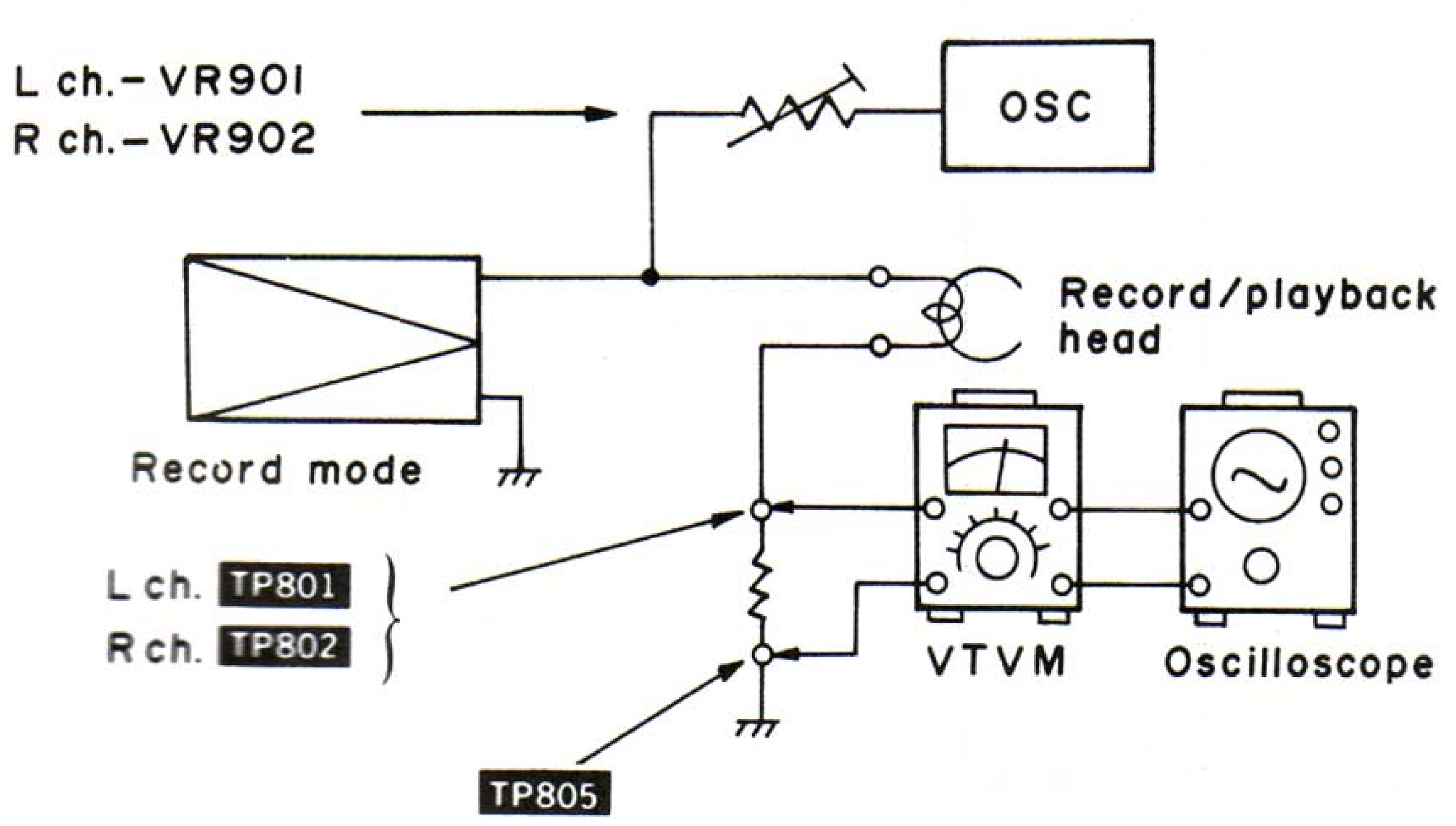


Fig. 26

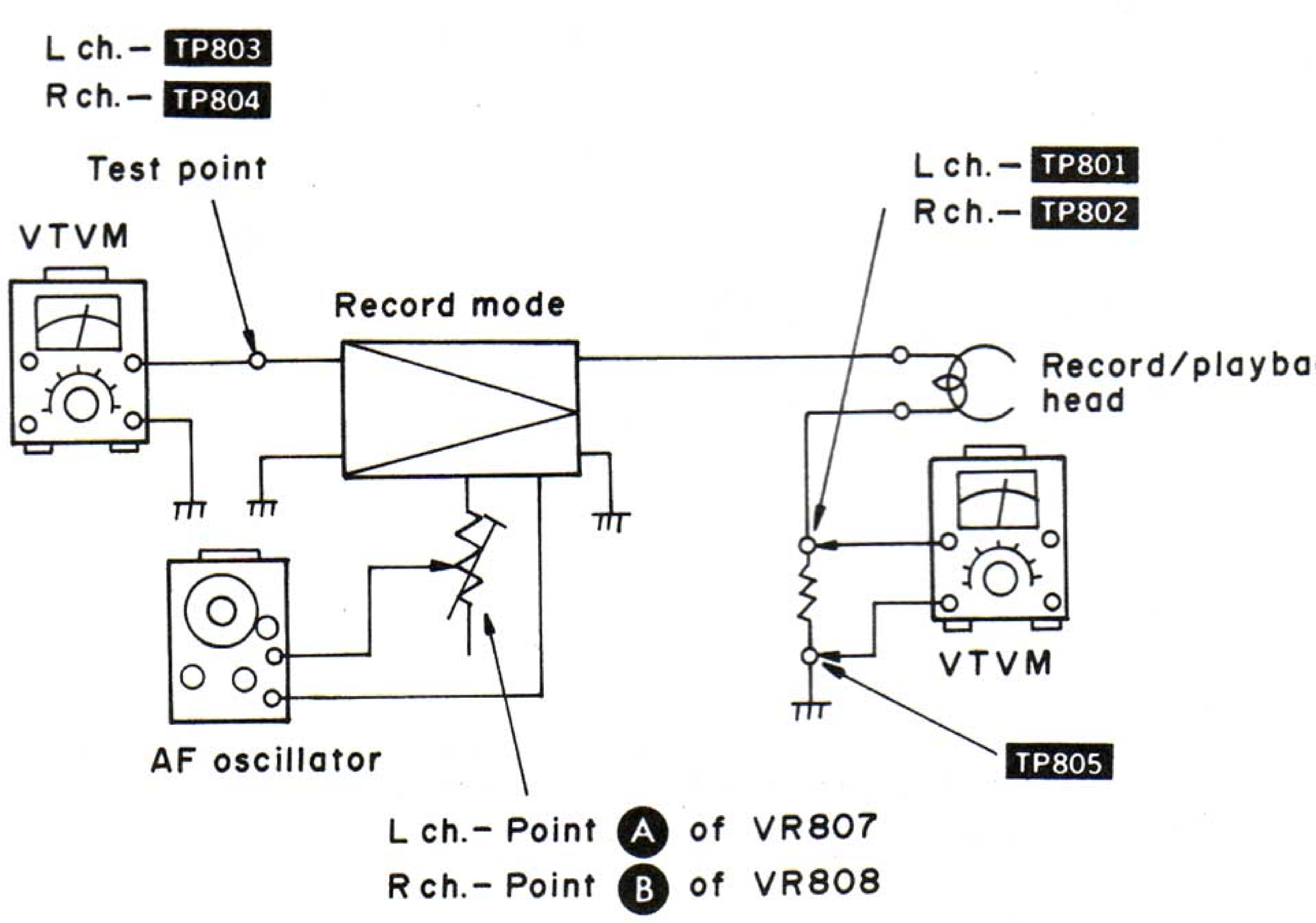
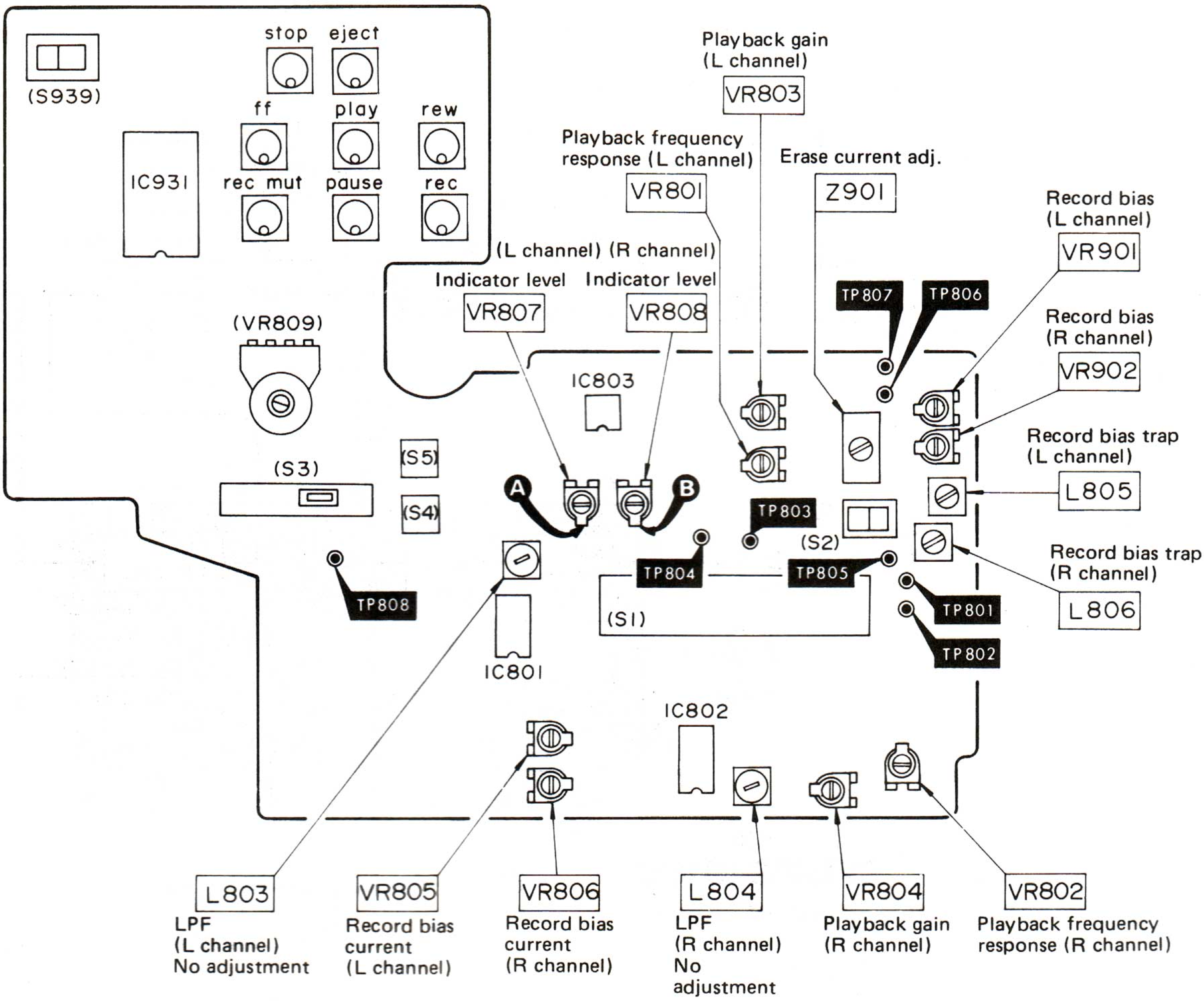


Fig. 27

• Adjustment points (cassette deck)



• Test point

- TP801 Record bias/record bias current (L)
- TP802 Record bias/record bias current (R)
- TP803 Playback output (L)
- TP804 Playback output (R)
- TP805 Ground (Record/playback)
- TP806 Erase current/oscillation frequency
- TP807 Ground (Erase)
- TP808 Stop oscillation pin

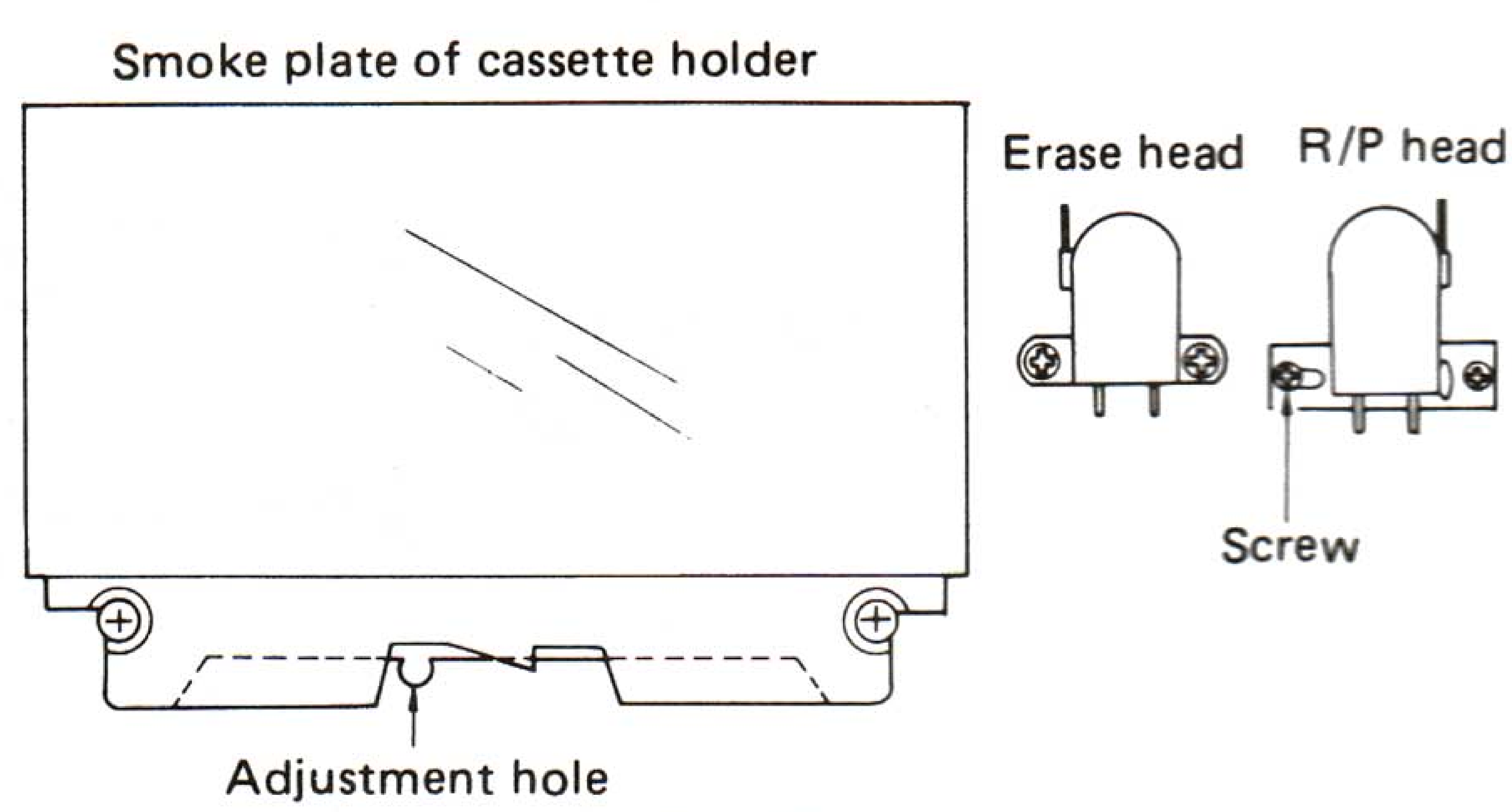
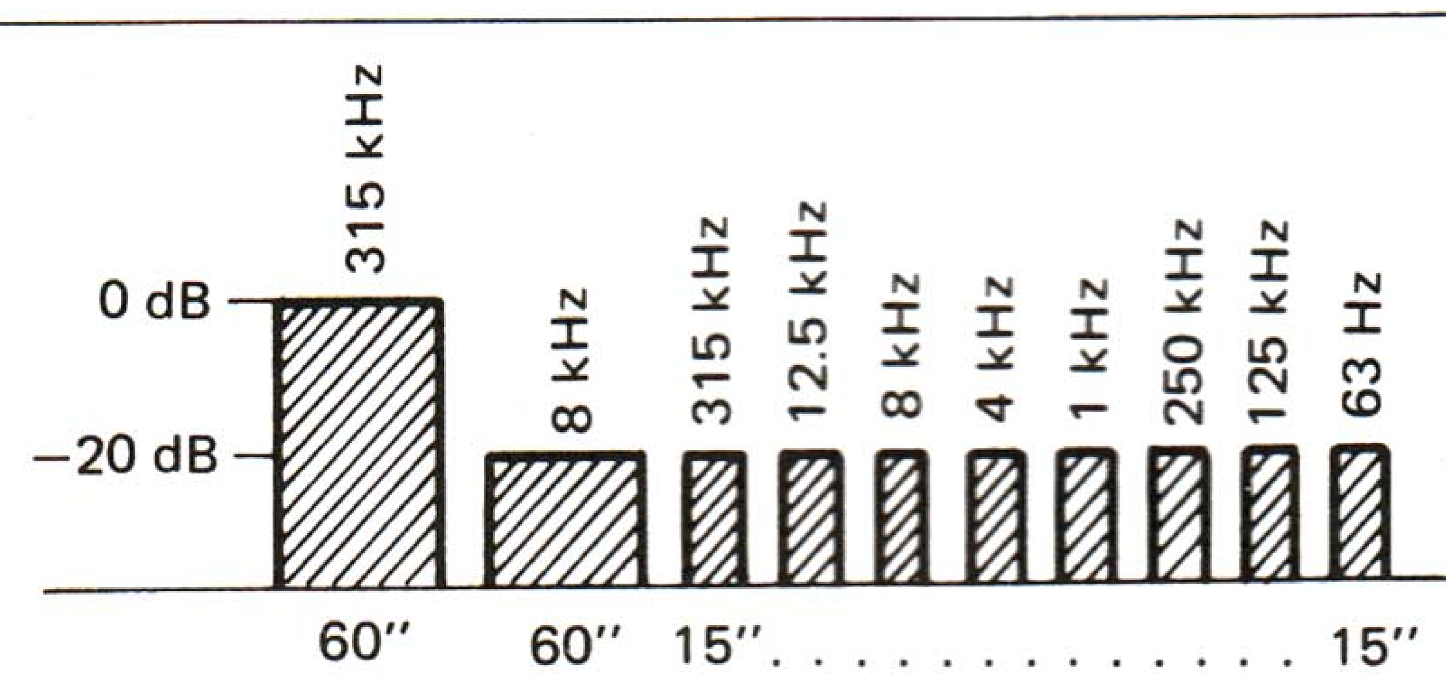


Fig. 28

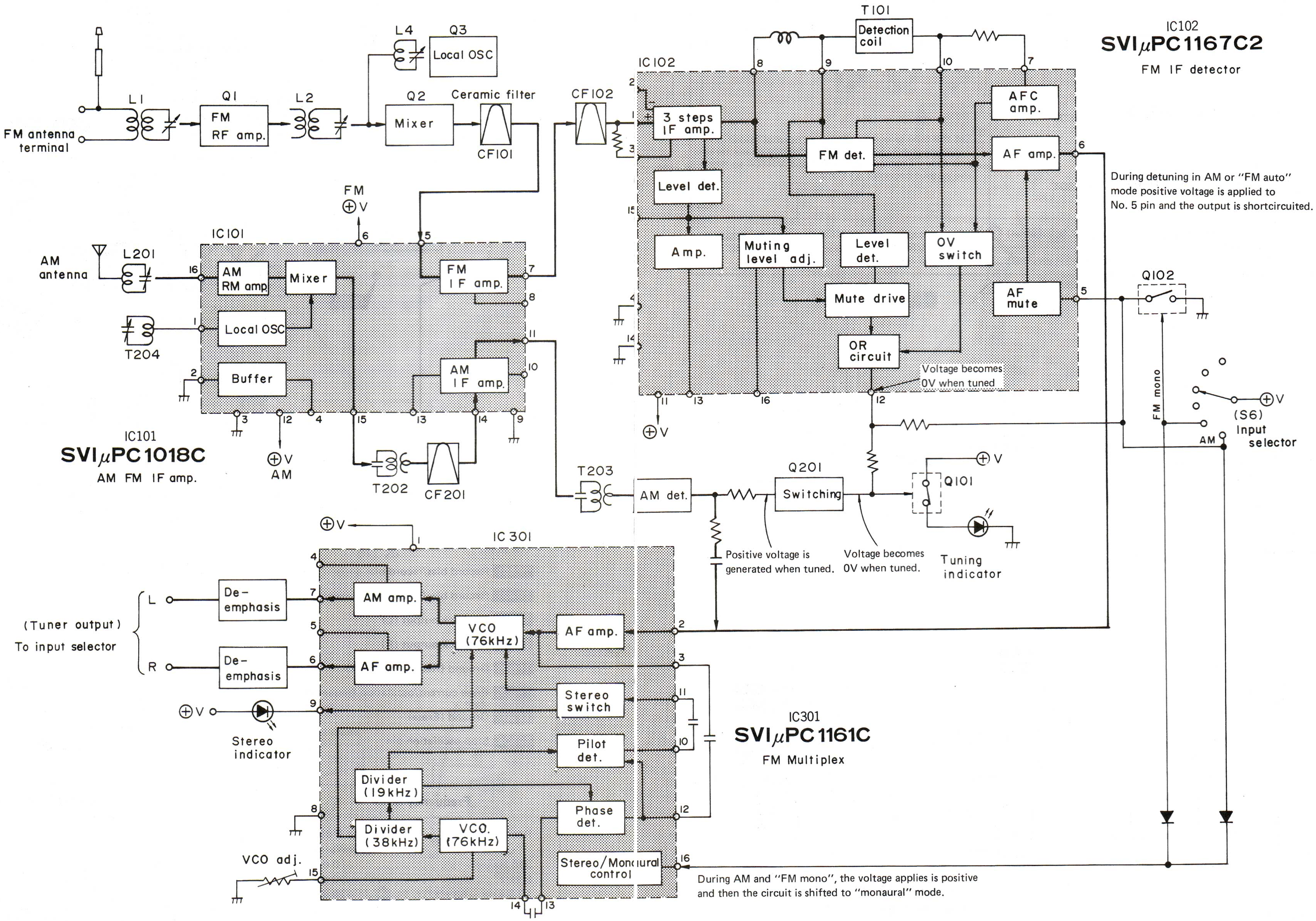
Frequency level	**Controls of recording**
Recording level . . . −20 dB and 0 dB, 160nWb/m 315 Hz . . . . 0 dB 8 kHz . . . . −20 dB 12.5 kHz ~ 63 Hz . . . . −20 dB Equalizer . . . . 120μS, 3180μS Recording time . . . . 4 min. Tape speed . . . . 4.76 cm/sec.	

QZZCFM (Test tape)

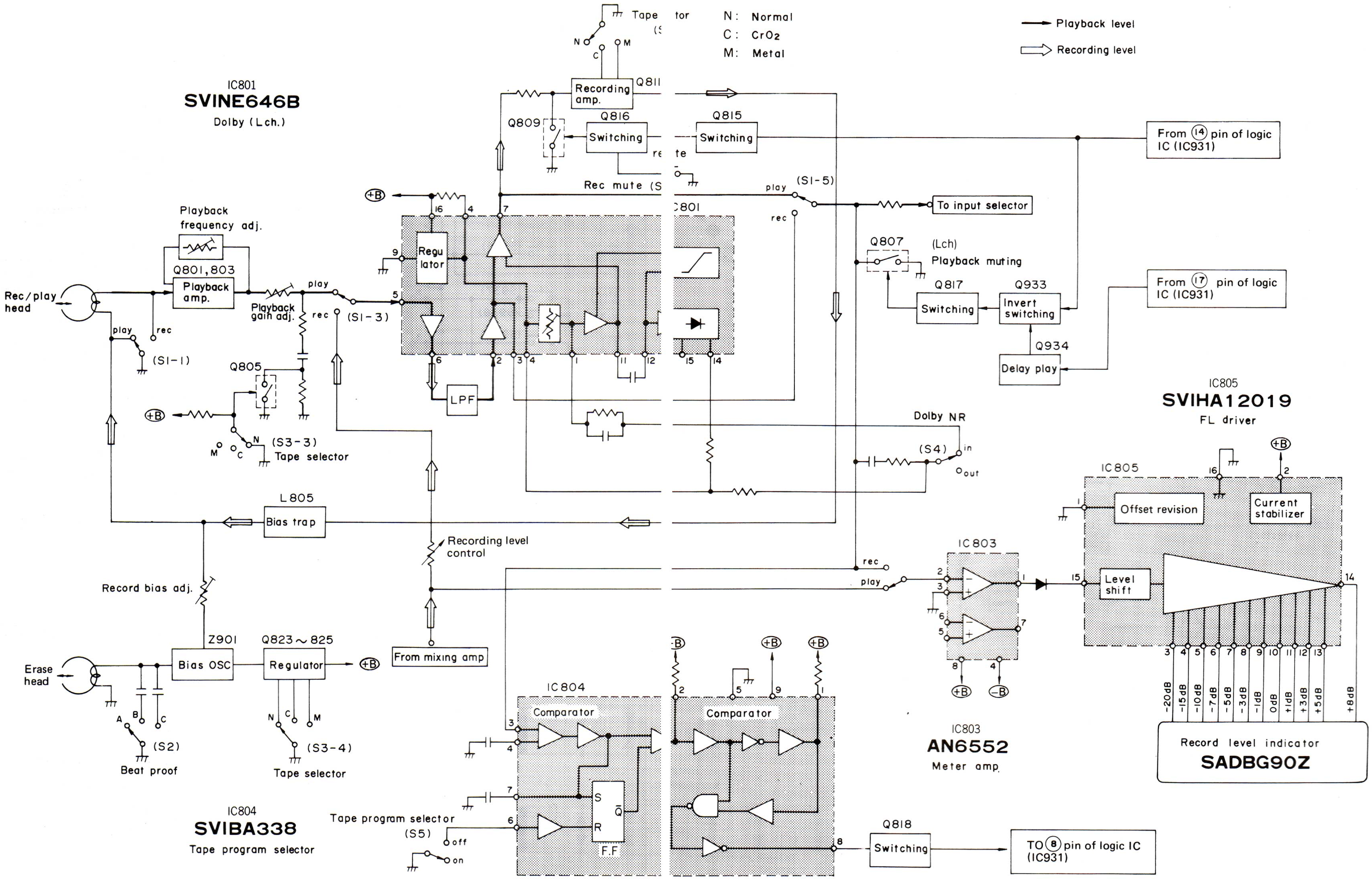
Fig. 29

■ BLOCK DIAGRAMS

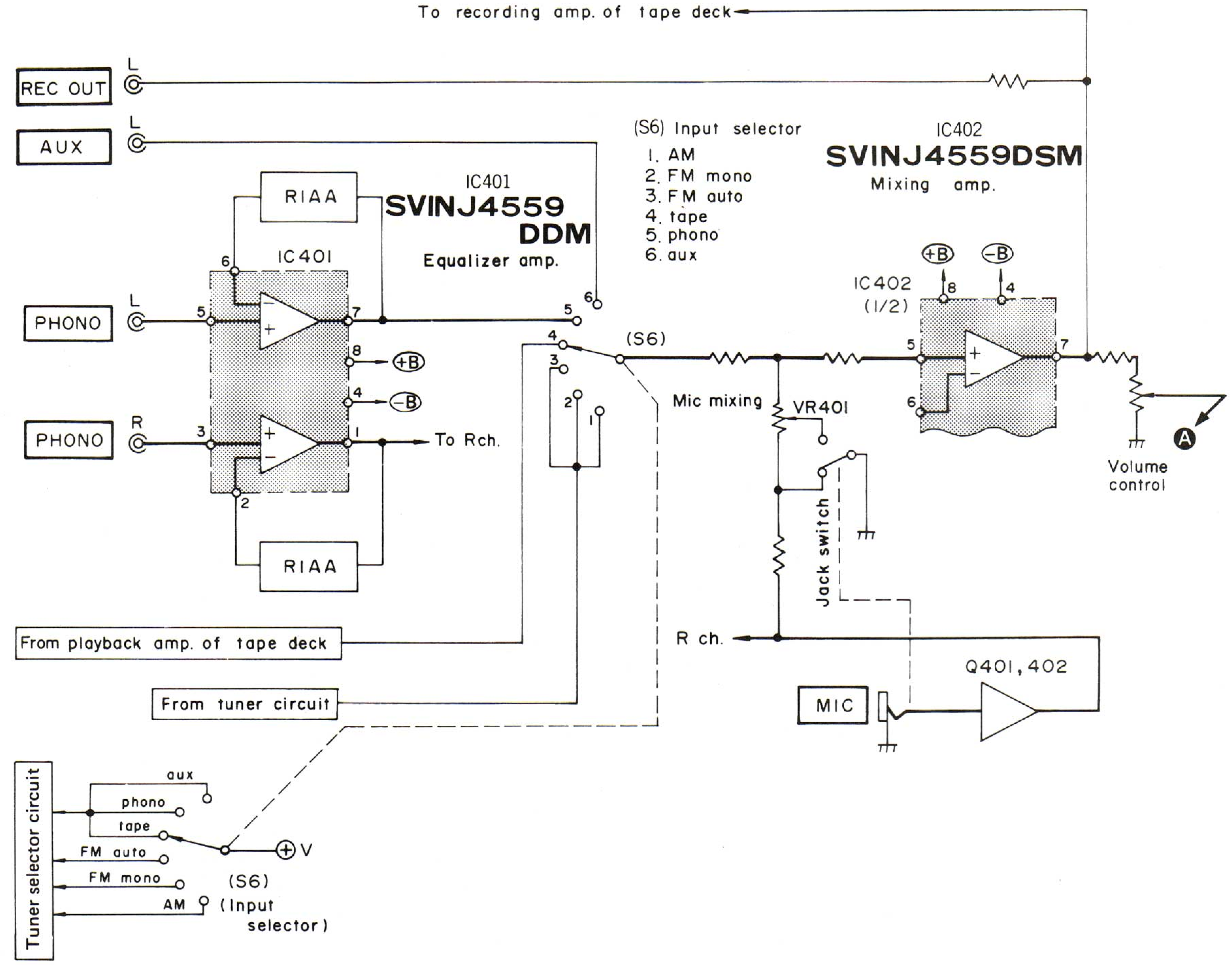
- **Tuner circuit**

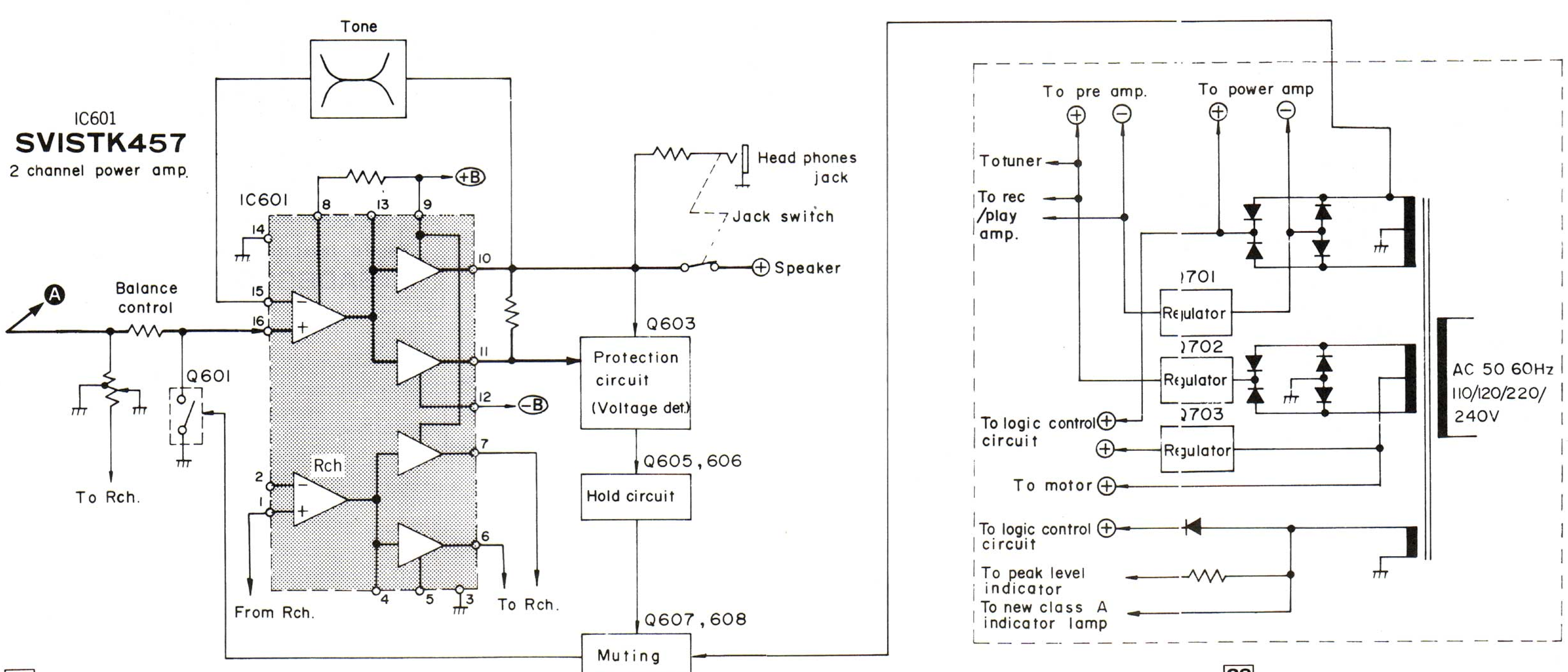


• **Cassette tape deck circuit**

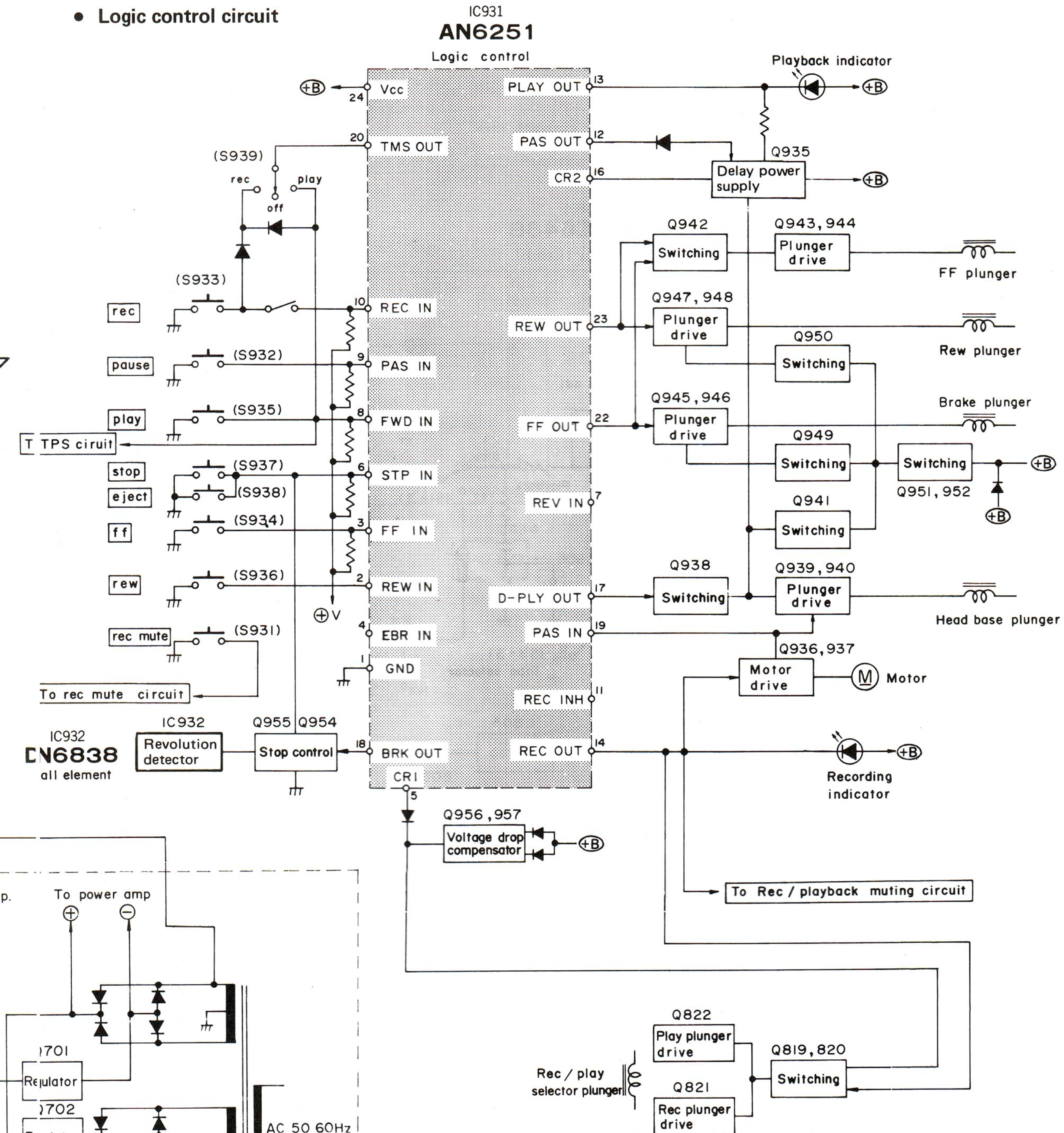


- **Power amplifier and mic mixing amplifier circuit**





- **Logic control circuit**



■ REPLACEMENT PARTS LIST…Electric Parts

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Areas

* [MX] is available in U.S.A. and Central South America.
* [MC] is available in Canada.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC101		SVIUPC1018C	IC, FM-IF/AM Converter
IC102		SVIUPC1167C2	IC, IF Amplifier & Detector
IC301		SVIUPC1161C3	IC, FM Multiplex
IC401		SVINJ4559DDM	IC, Equalizer Amplifier
IC402		SVINJ4559DSM	IC, Mixing Amplifier
IC601		SVISTK461B	IC, Power Amplifier
IC801, 802		SVINE646N	IC, Dolby Noise Reduction
IC803		AN6552F	IC, Meter Amp.
IC804		SVIBA338	IC, TPS Circuit
IC805, 806		SVIHA12019	IC, FL Driber
IC931		AN6251	IC, Logic Control
IC932		DN6838	IC, Hall IC (Stop Control)
TRANSISTOR			
Q1		2SK195–H2	Transistor, FM-RF Amplifier [FET]
Q2	S	2SC1674–M	Transistor, FM Mixer
Q3	S	2SC1675–L	Transistor, FM Oscillator
Q101, 102, 201, 820	S	2SC828AQ	Transistor, Switching (Use in ranks Q or R)
Q401		2SC1815L–G	Transistor, Mic Amplifier
Q402, 603, 604, 606, 751		2SA1015–Y	Transistor, Mic Amplifier & Protection Circuit
Q601, 602, 605, 607, 609, 610, 750, 752		2SC1815–O	Transistor, Muting (Use in ranks O, R or Y)
Q608		2SC1815–G	Transistor, Switching
Q701	S	2SA720–R	Transistor Regulator (Use in ranks Q or R)
Q702		2SC1983–1	Transistor, Regulator
Q703		2SC1983	Transistor, Regulator
Q801, 802	S	2SC1328–T	Transistor,
Q803, 804	S	2SC1328–S	Transistor,
Q805 ~ 810, 815, 816, 818, 819, 824, 825, 934, 935, 941, 943, 949, 950, 953 ~ 955		2SC1815–Y	Transistor, Switching, Muting Regulator, Plunger Drive, Stop Control
Q811, 812	S	2SC1685–Q	Transistor, Recording Amplifier
Q817, 933, 936, 938, 942, 945, 947, 957		2SA1015–Y	Transistor, Switching, Plunger Drive
Q821	S	2SA720–R	Transistor, Plunger Drive (Use in ranks Q or R)
Q822, 939	S	2SC1318–R	Transistor, Plunger Drive (Use in ranks Q or R)
Q823	S	2SC1383NC	Transistor, Regulator (Use in ranks Q or R)
Q937, 956		2SD788–D	Transistor, Motor Control (Use in ranks D or E)
Q940		2SD762–O	Transistor Plunger Drive (Use in ranks O, R or Q)
Q944		2SD882–R	Transistor, Plunger Drive (Use in ranks P, Q or R)
Q946, 948		2SD893A	Transistor, Plunger Drive (Use in ranks P, Q or R)
Q951		2SA684–RNC	Transistor, Switching (Use in ranks QNC or RNC)
Q952	S	2SB618–R2	Transistor, Switching
DIODES			
D101	S	MA162A	Diode, Switching, (Product Part No. MA150)
D201, 942, 943, 963	S	20A90	Diode, AM Detector, Switching (Product Part No. OA90)
D202, 301, 806, 811, 812, 831, 933, 934, 936, 938, 939, 941, 945, 947, 964 950 ~ 955, 958 ~ 961	S	MA162A	Diode, Switching (Product Part No. MA150)
D302, 303, 970	S	MA162A	Diode, Switching (Product Part No. MA150)
D601 ~ 604, 714, 715	S	MA162A	Diode, Switching (Product Part No. MA150)
D701 ~ 705	⚠	SVDS2V20	Diode
D706		MA162A	Diode, Switching (Product Part No. MA150)
D707, 708		SVDMZ316A	Diode, Zener 16V
D709		SVDMZ306A	Diode, Zener 6V
D710 ~ 713, 832	⚠	SVDSR1K2	Diode
D801, 802, 942 943	S	20A90	Diode, (Product Part No, OA90)
D808, 809	S	MA27A2	Diode, Bias Supply (Product Part No. SVDMA26–2)
D810		SVDMZ312C2	Diode, Zener 12V (Product Part No. SVDMZ312C3)
D902		SVDGL–9PR9	Light Emitting Diode, (Red)
D903		SVDGL–9HY59	Light Emitting Diode, (Yellow)
D904, 905	S	MA162A	Diode, Switching (Product Part No. MA150)
D931		SVDPY5704S	Light Emitting Diode, (Green)
D932		SVDPR5724S	Light Emitting Diode, (Red)
D949	⚠	SVDS2V20	Diode
D1001, 1002	S	SM112	Diode, Motor
COILS and TRANSFORMERS			
L1		SLA4N15	Coil, FM Antenna
L2		SLD4P21–P	Coil, FM-RF Detector
L3, 202, 203	S	RLQY15G5–Y	Coil, Choke
L4		SLO4P75–P	Coil, FM Local Oscillator
L5		SLI4C109	Coil,
L101		SLQX180–5M	Coil, Choke
L102		RLQX1013–D	Coil, Choke
L201		SLF2C41–O	Coil, FM Antenna
L801, 802		SLQX242–1M	Coil, Choke
L803, 804		SLM1Z19	Coil, Low Pass Filter
L805, 806		SLM1Z21–Z	Coil, Trap
L807		SLQX181–1D	Coil, Choke
T1		SLT5M181–W	Transformer, Power Source
T101		SLI4C509–P	Transformer, FM IFT
T202		SLI2C129R–M	Transformer, AM IFT
T203		SLI2C413	Transformer, AM IFT
T204		SLO2C23–P	Transformer, AM Oscillator
CERAMIC FILTERS			
CF101, 102		SVFE107MM–A	Ceramic Filter, 10.7 MHz (Red)
		SVFE107MM–B	Ceramic Filter, 10.68 MHz (Blue)
		SVFE107MM–C	Ceramic Filter, 10.72 MHz (Orange)
		SVFE107MM–D	Ceramic Filter, 10.66 MHz (Brown)
		SVFE107MM–E	Ceramic Filter, 10.74 MHz (Gray) (Use pair ranks as same as CF1 and CF2)
CF201		SVFSFU450B3	Ceramic Filter, AM 450 kHz
DESIGNATION TUBE			
FL1		SADBG90Z	Fluorescence Designation Tube
THERMISTERS			
TH101		ERTD2FHL103S	Thermister, Thermal Compensation, 10kΩ
VARIABLE CAPACITORS			
VC1 ~ 3 201, 202		ECV5MD34X89G	Tuning Gang
VARIABLE RESISTORS			
VR301	S	EVTS3MA00B53	PLL MPX Adjustment, 5kΩ (B)

Ref. No.		Part No.	Part Name & Description
VR401		EWKH8A501G15	Volume, Mic Mixing Control, 100kΩ (G)
VR402		EWCSJAF20A15	Volume Control, 100kΩ (A)
VR403		EWH24AF20G15	Balance Control, 100kΩ (G)
VR601, 602		EWCS2AF20C15	Tone (Treble and Bass) Control, 100kΩ (C)
VR801, 802, 805, 806		EVNK6AA00B54	Recording Current Adjustment, 50kΩ (B)
VR803, 804		EVNK6AA00B24	Playback Level Adjustment, 20kΩ (B)
VR807, 808		EVNK6AA00B14	Level Meter Control, 10kΩ (B)
VR809		EWC6SAF30A24	Recording Level Control, 20kΩ (A)
VR901, 902		EVNK6AA00B15	Recording Bias Control, 100kΩ (B)

COMPONENT COMBINATIONS

Z601, 602		ECQJ0517	Component Combination 0.047μF, 10Ω
Z901		SLOK9Z1–M	Component Combination
Z931, 932		EXF3YL01C	Component Combination, 0.01μF x 3
C703, 704		SXRFS203ZSM	Component Combination, 0.01μF x 2
C707, 708		SXRFS203ZSM	Component Combination, 0.01μF x 2

FUSES

F1		XBA2F20NU2	Fuse, 2A (250V)
F2		XBA2F10NU100	Fuse, 1A (250V)
F3		XBA1F20NU14	Fuse, 2A (125V)
F4		XBA1F10NU14	Fuse, 1A (125V)
F5		XBA2F05NU100	Fuse, 0.5A (250V)

LAMP

		SWL109–1	Lamp, 6.3V, 0.075A

SWITCHES

S1		SSX1	Switch,
S2, 939		SSS57	Switch, Timer
S3		SSS55	Switch, Tape Selector
S4, 5		ESB6379	Switch, Dolby, TPS
S6		ESA2682	Switch, Input Selector
S7		SSH1039	Switch, Power Source
S931 ~ 938		SSG1	Switch, Cassette Deck
S9		ESE37200	Switch, Voltage Adjuster

RESISTORS

Ref. No.		Part No.	Part Name & Description
R1		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R2		ERD10TLJ220U	Carbon, 1/8W, 22Ω, ± 5%
R3		ERD10TLJ561U	Carbon, 1/8W, 560Ω, ± 5%
R4		ERD25TJ684	Carbon, 1/4W, 680kΩ, ± 5%
R5		ERD10TLJ391U	Carbon, 1/8W, 390Ω, ± 5%
R6		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R7		ERD10TLJ822U	Carbon, 1/8W, 8.2kΩ, ± 5%
R8	S	ERD25FJ152	Carbon, 1/4W, 1.5kΩ, ± 5%
R9		ERD10TLJ222U	Carbon, 1/8W, 2.2kΩ, ± 5%
R30		ERO50CKF1003	Metal Film, 1/2W, 100kΩ, ± 5%
R101		ERD10TJ561	Carbon, 1/8W, 560Ω, ± 5%
R102		ERD10TLJ391U	Carbon, 1/8W, 390Ω, ± 5%
R103		ERD10TLJ681U	Carbon, 1/8W, 680Ω, ± 5%
R104		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R105		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R106		ERD10TLJ182U	Carbon, 1/8W, 1.8kΩ, ± 5%
R107		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R108		ERD10TLJ153U	Carbon, 1/8W, 15kΩ, ± 5%
R109		ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R111	⚠	ERD25FJ121	Carbon, 1/4W, 120Ω, ± 5%
R112	⚠	ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R113		ERD10TLJ153U	Carbon, 1/8W, 15kΩ, ± 5%
R115		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R118		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R119		ERD10TLJ334	Carbon, 1/8W, 330kΩ, ± 5%
R201		ERD10TLJ220U	Carbon, 1/8W, 22Ω, ± 5%
R202, 203		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R204		ERD10TLJ472U	Carbon, 1/8W, 4.7kΩ, ± 5%
R205		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R206		ERD10TLJ393U	Carbon, 1/8W, 39kΩ, ± 5%
R207		ERD10TLJ183U	Carbon, 1/8W, 18kΩ, ± 5%
R208		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R209		ERD10TLJ821U	Carbon, 1/8W, 820Ω, ± 5%
R210		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R211		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R216		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R217		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%

Ref. No.		Part No.	Part Name & Description
R301, 302		ERD10TLJ153U	Carbon, 1/8W, 15kΩ, ± 5%
R303, 304		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R305		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R306		ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R307, 308		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R309		ERD10TLJ224U	Carbon, 1/4W, 220kΩ, ± 5%
R310		ERD10TLJ122U	Carbon, 1/4W, 1.2kΩ, ± 5%
R311		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R312		ERD10TLJ153U	Carbon, 1/8W, 15kΩ, ± 5%
R313	S ⚠	ERD12FJ470	Carbon, 1/4W, 47kΩ, ± 5%
R401, 402		ERD10TLJ391U	Carbon, 1/8W, 390Ω, ± 5%
R403, 404	S	ERD25TJ224	Carbon, 1/4W, 220kΩ, ± 5%
R405, 406	S	ERD25TJ563	Carbon, 1/4W, 56kΩ, ± 5%
R407, 408		ERD10TLJ271U	Carbon, 1/8W, 270Ω, ± 5%
R409, 410		ERD10TLJ680U	Carbon, 1/8W, 68Ω, ± 5%
R411, 412		ERD10TLJ184U	Carbon, 1/8W, 180kΩ, ± 5%
R413, 414		ERD10TLJ123U	Carbon, 1/8W, 12kΩ, ± 5%
R415, 416		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R417, 418, 419		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R420, 421	S	ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R422	S	ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R423		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R424	S	ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R427, 428	S	ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R429, 430	S	ERD10TJ152	Carbon, 1/8W, 1.5kΩ, ± 5%
R431, 432		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R434, 435	S	ERD25FJ472	Carbon, 1/4W, 4.7kΩ, ± 5%
R436	S	ERD25TJ123	Carbon, 1/4W, 12kΩ, ± 5%
R438		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R439	S	ERD25TJ473	Carbon, 1/4W, 47kΩ, ± 5%
R440		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R441		ERD10TLJ391U	Carbon, 1/8W, 390Ω, ± 5%
R442		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R443	S	ERD25TJ393	Carbon, 1/4W, 39kΩ, ± 5%
R444		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R447	S ⚠	ERD25FJ470	Carbon, 1/4W, 47Ω, ± 5%
R448	S ⚠	ERD25FJ330	Carbon, 1/4W, 33Ω, ± 5%
R469		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R497		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R498, 499		ERD10TLJ682U	Carbon, 1/8W, 6.8kΩ, ± 5%
R601, 602		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R603, 604	S	ERD25TJ683	Carbon, 1/4W, 68kΩ, ± 5%
R605, 606		ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R607, 608	S	ERD10TJ222	Carbon, 1/8W, 2.2kΩ, ± 5%
R609, 610	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R611, 612		ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R613, 614	S	ERX1ANJR33	Metal Film, 1W, 0.33Ω, ± 5%
R617	S ⚠	ERD25FJ820	Carbon, 1/4W, 82Ω, ± 5%
R618		ERD10TLJ823U	Carbon, 1/8W, 82kΩ, ± 5%
R619, 620		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R621, 622		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R623, 624		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R629, 630		ERD10TLJ392U	Carbon, 1/8W, 3.9kΩ, ± 5%
R631, 632		ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R633	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R635, 636		ERD10TLJ123U	Carbon, 1/8W, 12kΩ, ± 5%
R637, 638	S ⚠	ERD25FJ221	Carbon, 1/4W, 220Ω, ± 5%
R639, 640		ERD10TLJ392U	Carbon, 1/8W, 3.9kΩ, ± 5%
R641		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R642	S	ERD25FJ103	Carbon, 1/4W, 10kΩ, ± 5%
R643		ERD10TLJ472U	Carbon, 1/8W, 4.7kΩ, ± 5%
R644	S	ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R645, 646	S	ERG1ANJ101	Metal Oxide, 1W, 100Ω, ± 5%
R647, 648		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R649		ERD10TLJ682U	Carbon, 1/8W, 6.8kΩ, ± 5%
R650		ERD10TLJ333U	Carbon, 1/8W, 33kΩ, ± 5%
R651, 652		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R653	S	ERD10TJ393	Carbon, 1/8W, 39kΩ, ± 5%
R654, 655	S ⚠	ERD25FJ470	Carbon, 1/4W, 47Ω, ± 5%
R656		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R657		ERD10TLJ224U	Carbon, 1/8W, 220kΩ, ± 5%
R658	S	ERD25TJ223	Carbon, 1/4W, 22kΩ, ± 5%
R702	S	ERD10TJ222	Carbon, 1/8W, 2.2kΩ, ± 5%
R703	S	ERD10TJ121	Carbon, 1/8W, 120Ω, ± 5%
R704	S	ERD10TJ392	Carbon, 1/8W, 3.9kΩ, ± 5%
R705	S	ERD10TJ121	Carbon, 1/8W, 120Ω, ± 5%
R706	S	ERD10TJ222	Carbon, 1/8W, 2.2kΩ, ± 5%
R707	S	ERD10TJ121	Carbon, 1/8W, 120Ω, ± 5%
R708	⚠	ERD25FAJ2R2	Carbon, 1/4W, 2.2Ω, ± 5%
R710	S ⚠	ERD25FJ100	Carbon, 1/4W, 10Ω, ± 5%
R711	S	ERD25FJ821	Carbon, 1/4W, 820Ω, ± 5%
R712	⚠	ERD25FAJ2R2	Carbon, 1/4W, 2.2Ω, ± 5%
R713		ERQ3CJ2R2	Fuse Type Metallic, 3W, 2.2Ω, ± 5%

Ref. No.		Part No.	Part Name & Description
R751	S⚠	ERD25FJ101	Carbon, 1/4W, 100Ω, ± 5%
R752, 753	S	ERD25TJ273	Carbon, 1/4W, 27kΩ, ± 5%
R754	S	ERD25TJ273	Carbon, 1/4W, 27kΩ, ± 5%
R756	S	ERD25TJ154	Carbon, 1/4W, 150kΩ, ± 5%
R757	S	ERD25TJ823	Carbon, 1/4W, 82kΩ, ± 5%
R801, 802		ERD10TLJ100U	Carbon, 1/8W, 10Ω, ± 5%
R803, 804		ERD10TLJ273U	Carbon, 1/8W, 27kΩ, ± 5%
R805, 806		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R807, 808	S	ERD10TJ473	Carbon, 1/8W, 47kΩ, ± 5%
R809, 810		ERD10TLJ151U	Carbon, 1/8W, 150Ω, ± 5%
R811		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R812	S	ERD10TJ562	Carbon, 1/8W, 5.6kΩ, ± 5%
R813		ERD10TLJ471U	Carbon, 1/8W, 470Ω, ± 5%
R814	S	ERD10TJ471	Carbon, 1/8W, 470Ω, ± 5%
R815, 816	S	ERD25TJ563	Carbon, 1/4W, 56kΩ, ± 5%
R817, 818		ERD10TLJ394U	Carbon, 1/8W, 390kΩ, ± 5%
R819, 820		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R821, 822		ERD10TLJ392U	Carbon, 1/8W, 3.9kΩ, ± 5%
R823, 824		ERD10TLJ224U	Carbon, 1/8W, 220kΩ, ± 5%
R825		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R827, 828	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R829, 830		ERD10TLJ474U	Carbon, 1/8W, 470kΩ, ± 5%
R831, 832		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R833, 834	S	ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R835, 836		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R837	S	ERD25TJ104	Carbon, 1/4W, 100kΩ, ± 5%
R838		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R839, 840		ERD10TLJ274U	Carbon, 1/8W, 270kΩ, ± 5%
R841, 842		ERD10TLJ184U	Carbon, 1/8W, 180kΩ, ± 5%
R843, 844		ERD10TLJ474U	Carbon, 1/8W, 470kΩ, ± 5%
R845, 846		ERD10TLJ181U	Carbon, 1/8W, 180Ω, ± 5%
R847, 848		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R849, 850		ERD10TLJ222U	Carbon, 1/8W, 2.2kΩ, ± 5%
R851, 852	S	ERD10TJ562	Carbon, 1/8W, 5.6kΩ, ± 5%
R853, 854		ERD10TLJ392U	Carbon, 1/8W, 3.9kΩ, ± 5%
R855, 856	S	ERD10TJ222	Carbon, 1/8W, 2.2kΩ, ± 5%
R857, 858		ERD10TLJ823U	Carbon, 1/8W, 82kΩ, ± 5%
R859, 860		ERD10TLJ274U	Carbon, 1/8W, 270kΩ, ± 5%
R861, 862		ERD10TLJ273U	Carbon, 1/8W, 27kΩ, ± 5%
R863, 864		ERD10TLJ822U	Carbon, 1/8W, 8.2kΩ, ± 5%
R865, 866		ERD10TLJ681U	Carbon, 1/8W, 680Ω, ± 5%
R867, 868		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R869, 870		ERD10TLJ152U	Carbon, 1/8W, 1.5kΩ, ± 5%
R871, 872		ERD10TLJ152U	Carbon, 1/8W, 1.5kΩ, ± 5%
R873, 874		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R875, 876		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R877		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R878		ERD10TLJ472U	Carbon, 1/8W, 4.7kΩ, ± 5%
R879		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R883, 884		ERD10TLJ184U	Carbon, 1/8W, 180kΩ, ± 5%
R885, 886		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R887		ERD10TLJ682U	Carbon, 1/8W, 6.8kΩ, ± 5%
R888	S	ERD25FJ682	Carbon, 1/4W, 6.8kΩ, ± 5%
R889	S⚠	ERD25FJ330	Carbon, 1/4W, 33Ω, ± 5%
R891		ERD10TLJ472U	Carbon, 1/8W, 4.7kΩ, ± 5%
R892		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R893, 894		ERD10TLJ154U	Carbon, 1/8W, 150kΩ, ± 5%
R895		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R896		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R897, 898		ERD10TLJ474U	Carbon, 1/8W, 470kΩ, ± 5%
R899		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R901	S⚠	ERD25FJ330	Carbon, 1/4W, 33Ω, ± 5%
R902	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R903		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R904	S	ERD25TJ103	Carbon, 1/4W, 10kΩ, ± 5%
R905		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R906		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R907	S	ERD25FJ2R2	Carbon, 1/4W, 2.2Ω, ± 5%
R908		ERD10TLJ472U	Carbon, 1/8W, 4.7kΩ, ± 5%
R909	S	ERD25TJ102	Carbon, 1/4W, 1kΩ, ± 5%
R911, 912	S	ERD10TJ103	Carbon, 1/8W, 10kΩ, ± 5%
R913	S	ERD10TJ122	Carbon, 1/8W, 1.2kΩ, ± 5%
R914		ERD10TLJ182U	Carbon, 1/8W, 1.8kΩ, ± 5%
R915		ERD10TLJ332U	Carbon, 1/8W, 3.3kΩ, ± 5%
R916	S	ERD10TJ123	Carbon, 1/8W, 12kΩ, ± 5%
R917		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R918		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R919		ERD10TLJ182U	Carbon, 1/8W, 1.8kΩ, ± 5%
R920	S	ERD25FJ2R2	Carbon, 1/4W, 2.2Ω, ± 5%
R921	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R923	S	ERD10TJ471	Carbon, 1/8W, 470Ω, ± 5%

Ref. No.		Part No.	Part Name & Description
R924	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R925	S	ERD10TJ152	Carbon, 1/8W, 1.5kΩ, ± 5%
R926	S⚠	ERD25FJ270	Carbon, 1/4W, 27Ω, ± 5%
R931		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R932		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R933		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R934		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R935		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R936		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R937		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R938		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R939		ERD10TLJ101U	Carbon, 1/8W, 100Ω, ± 5%
R940		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R941	S	ERD10TJ101	Carbon, 1/8W, 100Ω, ± 5%
R942		ERD10TLJ562U	Carbon, 1/8W, 5.6kΩ, ± 5%
R943	S	ERD10TJ221	Carbon, 1/8W, 220Ω, ± 5%
R944	S	ERD10TJ271	Carbon, 1/8W, 270Ω, ± 5%
R948		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R949		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R950		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R951		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R952, 953		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R957		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R958		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R959		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R961		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R962		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R963	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R964		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R965, 966		ERD10TLJ103U	Carbon, 1/8W, 10kΩ, ± 5%
R967		ERD10TLJ222U	Carbon, 1/8W, 2.2kΩ, ± 5%
R968, 969		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R970		ERD10TLJ561U	Carbon, 1/8W, 560Ω, ± 5%
R971	S	ERD10TJ472	Carbon, 1/8W, 4.7kΩ, ± 5%
R972		ERD10TLJ102U	Carbon, 1/8W, 1kΩ, ± 5%
R973		ERD10TLJ561U	Carbon, 1/8W, 560Ω, ± 5%
R974	S	ERD10TJ472	Carbon, 1/8W, 4.7kΩ, ± 5%
R975		ERD10TLJ152U	Carbon, 1/8W, 1.5kΩ, ± 5%
R976	S	ERD10TJ152	Carbon, 1/8W, 1.5kΩ, ± 5%
R977	S	ERD10TJ102	Carbon, 1/8W, 1kΩ, ± 5%
R978	S	ERD10TJ152	Carbon, 1/8W, 1.5kΩ, ± 5%
R979		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R980		ERD10TLJ683U	Carbon, 1/8W, 68kΩ, ± 5%
R981	S	ERD10TJ101	Carbon, 1/8W, 100Ω, ± 5%
R982	S	ERD10TJ223	Carbon, 1/8W, 22kΩ, ± 5%
R983		ERD10TLJ223U	Carbon, 1/8W, 22kΩ, ± 5%
R984		ERD10TLJ123U	Carbon, 1/8W, 12kΩ, ± 5%
R985	S	ERD10TJ221	Carbon, 1/8W, 220Ω, ± 5%
R986		ERD10TLJ104U	Carbon, 1/8W, 100kΩ, ± 5%
R987		ERD10TLJ473U	Carbon, 1/8W, 47kΩ, ± 5%
R990		ERD10TLJ183U	Carbon, 1/8W, 18kΩ, ± 5%
R991	S	ERD25TJ183	Carbon, 1/4W, 18kΩ, ± 5%
R992		ERD10TLJ152U	Carbon, 1/8W, 1.5kΩ, ± 5%
R993		ERF3AJ330	Non-Flammable, 3W, 33Ω, ± 5%
R994	S	ERG2ANJ330	Metal Oxide, 2W, 33Ω, ± 5%
R995	S⚠	ERD50FJ101	Carbon, 1/2W, 100Ω, ± 5%
R996	S	ERD10TJ152	Carbon, 1/8W, 1.5kΩ, ± 5%
R1001		ERC12GK335	Soild, 1/2W, 3.3MΩ, ± 10%

CAPACITORS

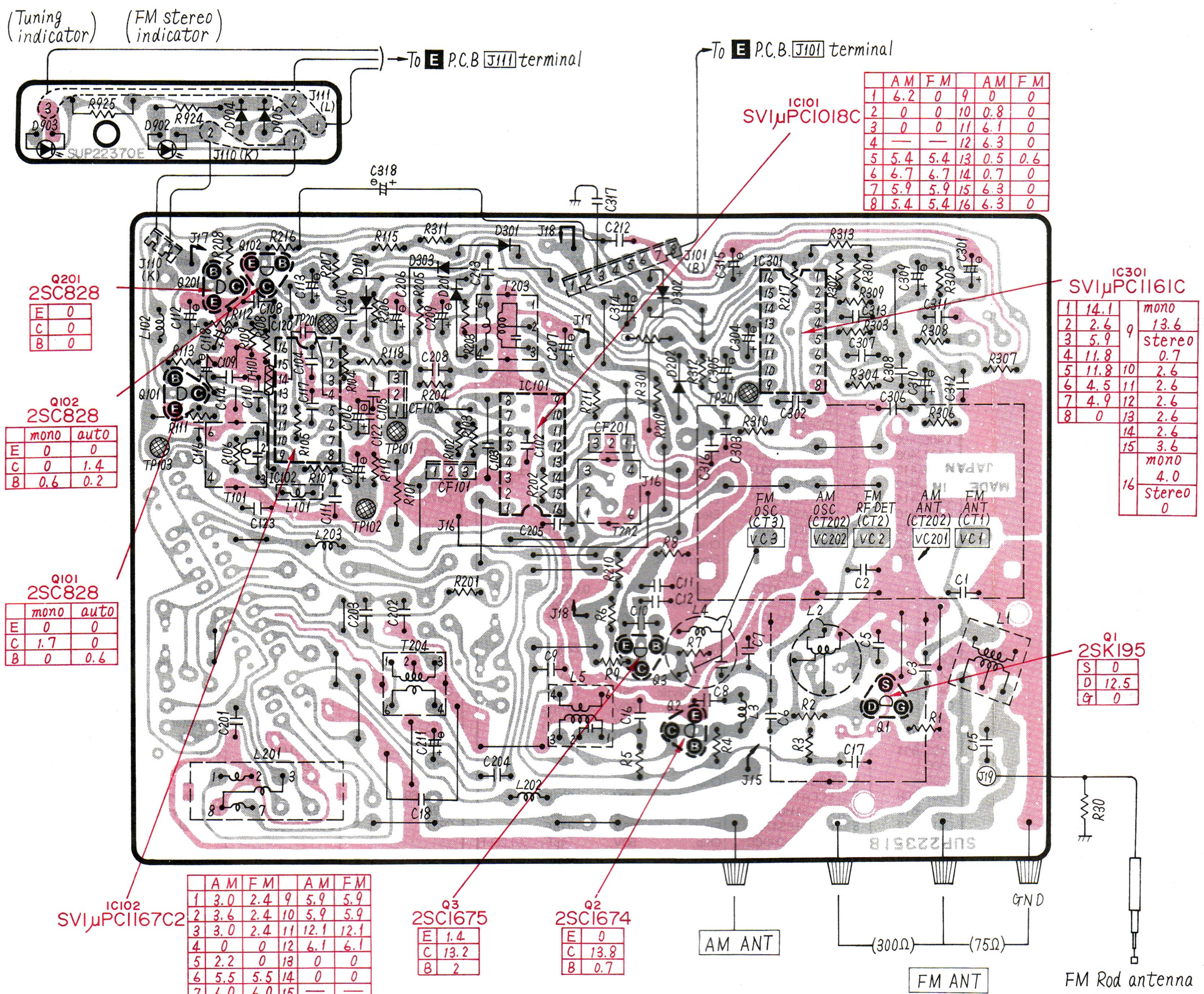
Ref. No.		Part No.	Part Name & Description
C1, 2	S	ECUX1H180KC	Chip, 50V, 18μF, ± 10%
C3	S	ECUX1H220KC	Chip, 50V, 22pF, ± 10%
C5	S	ECKD1H102MD	Ceramic, 50V, 0.001μF, ± 20%
C6	S	ECUX1H070CC	Chip, 50V, 7pF, ±0.25pF
C7	S	ECUX1H100K	Chip, 50V, 10pF, ± 10%
C8	S	ECUX1H181KC	Chip, 50V, 180pF, ± 10%
C9	S	ECUX1H223ZF	Chip, 50V, 0.022μF, $^{+80}_{-20}$%
C10	S	ECCD1H390KC	Ceramic, 50V, 39pF, ± 10%
C11	S	ECUX1H103ZF	Chip, 50V, 0.01μF, $^{+80}_{-20}$%
C12	S	ECKD1H102MD	Ceramic, 50V, 0.001μF, ± 20%
C15	S	ECUX1H150KC	Chip, 50V, 15pF, ± 10%
C18	S	ECKD1H223ZF	Ceramic, 50V, 0.022μF, $^{+80}_{-20}$%
C102	S	ECUX1H223ZF	Chip, 50V, 0.022μF, $^{+80}_{-20}$%
C103	S	ECKD1H223ZF	Ceramic, 50V, 0.022μF, $^{+80}_{-20}$%
C104, 105	S	ECUX1H103ZF	Chip, 50V, 0.01μF, $^{+80}_{-20}$%
C106, 107	S	ECEA50Z1	Electrolytic, 50V, 1μF
C108, 109	S	ECUX1H223ZF	Chip, 50V, 0.022μF, $^{+80}_{-20}$%
C110	S	ECQM1H333KZ	Polyester, 50V, 0.033μF, ± 10%
C111	S	ECUX1H223ZF	Chip, 50V, 0.022μF, $^{+80}_{-20}$%
C112, 113	S	ECEA25Z4R7	Electrolytic, 25V, 4.7μF
C114	S	ECEA1AS221	Electrolytic, 10V, 220μF
C116	S	ECUX1H103ZF	Chip, 50V, 0.01μF, $^{+80}_{-20}$%
C117	S	ECUX1H223ZF	Chip, 50V, 0.022μF, $^{+80}_{-20}$%

Ref. No.		Part No.	Part Name & Description			
C118	S	ECEA50ZR1	Electrolytic,	50V,	0.1μF,	
C120, 122	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C123		ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C201	S	ECCD1H050CC	Ceramic,	50V,	5pF,	±0.25pF
C203	S	ECQP1361JZ	Polypropylene,	100V,	360pF,	± 5%
C204	S	ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C205	S	ECUX1H100KC	Chip,	50V,	10pF,	± 10%
C206	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C207	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C208	S	ECUX1H103ZF	Chip,	50V,	0.01μF,	+80 −20%
C209	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C210	S	ECQM1H223KZ	Polyester,	50V,	0.022μF,	± 10%
C211	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C212	S	ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C213	S	ECUX1H103ZF	Chip,	50V,	0.01μF,	+80 −20%
C301	S	ECEA1ES331	Electrolytic,	25V,	330μF	
C302	S	ECQM1H473JZ	Polyester,	50V,	0.047μF	± 5%
C303	S	ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C304	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C305	S	ECEA50ZR47	Electrolytic,	50V,	0.47μF	
C306		ECQP1471JZ	Polypropylene,	100V,	470pF,	± 5%
C307, 308	S	ECQM1H152JZ	Polyester,	50V,	0.0015μF,	± 5%
C309	S	ECEA50ZR47	Electrolytic,	50V,	0.47μF	
C310	S	ECEA50ZR47	Electrolytic,	50V,	0.47μF	
C311, 312	S	ECQM1H682KZ	Polyester,	50V,	0.0068μF,	± 10%
C313	S	ECCD1H680K	Ceramic,	50V,	68pF,	± 10%
C314	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C315	S	ECEA1CS221	Electrolytic,	16V,	220μF	
C316	S	ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C317	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C318		ECEA50Z2R2	Electrolytic,	50V,	2.2μF	
C401, 402	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C403, 404	S	ECCD1H101KC	Ceramic,	50V,	100pF,	± 10%
C405, 406	S	ECUX1H471K	Chip,	50V,	470pF,	± 10%
C407, 408	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C409, 410	S	ECQM1H223JZ	Polyester,	50V,	0.022μF,	± 5%
C411, 412	S	ECQM1H682JZ	Polyester,	50V,	0.0068μF,	± 5%
C413, 414	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C415, 416	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C417, 418	S	ECUX1H470K	Chip,	50V,	47pF,	± 10%
C421, 422	S	ECUX1H471K	Chip,	50V,	470pF,	± 10%
C423, 424	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C425	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C426	S	ECKD1H102ZF	Ceramic,	50V,	0.001μF,	+80 −20%
C427	S	ECEA1ES220	Electrolytic,	25V,	22μF	
C428	S	ECUX1H470K	Chip,	50V,	47pF,	± 10%
C429	S	ECKD1H221KB	Ceramic,	50V,	220pF,	± 10%
C430	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C431	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C436, 437	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C438	S	ECKD1H103ZF	Ceramic,	50V,	0.01μF,	+80 −20%
C490	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C601, 602	S	ECEA25Z4R7	Electrolytic,	25V,	4.7μF	
C603, 604	S	ECCD1H121K	Ceramic,	50V,	120pF,	± 10%
C605	S	ECCD1H101K	Ceramic,	50V,	100pF,	± 10%
C606	S	ECUX1H101K	Chip,	50V,	100pF,	± 10%
C607, 608	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C609, 610	S	ECCD1H050CC	Ceramic,	50V,	5pF,	±0.25pF
C611, 612	S	ECEA1ES470	Electrolytic,	25V,	47μF	
C613, 614	S	ECUX1H040CC	Chip,	50V,	4pF,	±0.25pF
C615, 616	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C617, 618	S	ECQM1H473KZ	Polyester,	50V,	0.047μF,	± 10%
C619	S	ECEA1VS101	Electrolytic,	35V,	100μF	
C621	S	ECKD1H471KB	Ceramic,	50V,	470pF,	± 10%
C622	S	ECUX1H471KC	Chip,	50V,	470pF,	± 10%
C623, 624	S	ECQM1H272KZ	Polyester,	50V,	0.0027μF,	± 10%
C625, 626	S	ECQM1H273JZ	Polyester,	50V,	0.027μF,	± 5%
C629, 630	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C631, 632	S	ECQM1H822JZ	Polyester,	50V,	0.0082μF,	± 5%
C633, 634	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C635, 636	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C637	S	ECKD1H103ZF	Ceramic,	50V,	0.01μF,	+80 −20%
C638	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C639	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C640	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C643	S	ECEA50Z4R7	Electrolytic,	50V,	4.7μF	
C644	S	ECKD2H103PE	Ceramic,	500V,	0.01μF,	+100 −0%
C645	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C701		ECETS1VV682Q	Electrolytic,	35V,	6800μF,	± 20%
C702		ECETS1VV682U	Electrolytic,	35V,	6800μF,	± 20%
C705	S	ECKD2H103PE	Ceramic,	500V,	0.01μF,	+100 −0%
C706		ECETS1CV103Y	Electrolytic,	16V,	10000μF,	± 20%
C709	S	ECEA1CS331	Electrolytic,	16V,	330μF	
C710	S	ECEA1CS221	Electrolytic,	16V,	220μF	
C712	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C714	S	ECEA1VS102	Electrolytic,	35V,	1000μF	
C718, 719	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C751	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C801, 802	S	ECUX1H471K	Chip,	50V,	470pF,	± 10%
C803, 804	S	ECEA50M4R7R	Electrolytic,	50V,	4.7μF	
C805, 806	S	ECUX1H470KC	Chip,	50V,	47pF,	± 10%
C807, 808	S	ECQM1H102JZ	Polyester,	50V,	0.001μF,	± 5%
C809, 810	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C811, 812	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C813, 814	S	ECQM1H822JZ	Polyester,	50V,	0.0082μF,	± 5%
C815, 816	S	ECQM1H183JZ	Polyester,	50V,	0.018μF,	± 5%
C817	S	ECEA1CS221	Electrolytic,	16V,	220μF	
C818	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C819, 820	S	ECEA50MR33R	Electrolytic,	50V,	0.33μF	
C821, 822	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C823, 824	S	ECQM1H472JZ	Polyester,	50V,	0.0047μF,	± 5%
C825, 826	S	ECUX1H102ZF	Chip,	50V,	0.001μF,	+80 −20%
C827, 828	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C829, 830	S	ECQM1H273JZ	Polyester,	50V,	0.027μF,	± 5%
C833, 834	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C835, 836	S	ECEA50ZR33	Electrolytic,	50V,	0.33μF	
C837, 838	S	ECQM1H104JZ	Polyester,	50V,	0.1μF,	± 10%
C839, 840	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C841, 842	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C843, 844	S	ECQM1H392JZ	Polyester,	50V,	0.0039μF,	± 5%
C845, 846	S	ECQM1H562JZ	Polyester,	50V,	0.0056μF,	± 5%
C847, 848	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C849, 850	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C851, 852	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C853, 854	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C855, 856	S	ECUX1H102ZF	Chip,	50V,	0.001μF,	+80 −20%
C857, 858	S	ECQM1H393JZ	Polyester,	50V,	0.039μF,	± 5%
C861, 862	S	ECQM1H563JZ	Polyester,	50V,	0.056μF,	± 5%
C863, 864	S	ECQM1H104JZ	Polyester,	50V,	0.1μF,	± 5%
C865, 866	S	ECQM1H102JZ	Polyester,	50V,	0.001μF,	± 5%
C867, 868	S	ECEA50Z3R3	Electrolytic,	50V,	3.3μF	
C870	S	ECEA1CS331	Electrolytic,	16V,	330μF	
C871	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C872	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C873, 874	S	ECEA50Z4R7	Electrolytic,	50V,	4.7μF	
C875	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C876	S	ECEA50ZR1	Electrolytic,	50V,	0.1μF	
C877	S	ECEA50ZR33	Electrolytic,	50V,	0.33μF	
C878	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C879	S	ECEA1CS221	Electrolytic,	16V,	220μF	
C880	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C882	S	ECEA1CS102	Electrolytic,	16V,	1000μF	
C884	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C886	S	ECEA1ES101	Electrolytic,	25V,	100μF	
C887	S	ECQM1H102JZ	Polyester,	50V,	0.001μF,	± 5%
C888	S	ECKD1H471KB	Ceramic,	50V,	470pF,	± 10%
C889, 890	S	ECUX1H331K	Chip,	50V,	330pF,	± 10%
C892	S	ECKD1H331KB	Ceramic,	50V,	330pF,	± 10%
C893	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C895, 896	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C898	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C931	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C932	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C933	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C934	S	ECEA1CS330	Electrolytic,	16V,	33μF	
C937	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C938	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C939	S	ECEA1HS100	Electrolytic,	50V,	10μF	
C940	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C941	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C942	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C943	S	ECEA1AS101	Electrolytic,	10V,	100μF	
C944	S	ECQM1H473JZ	Polyester,	50V,	0.047μF,	± 5%
C945, 946	S	ECEA1AS470	Electrolytic,	10V,	47μF	
C947	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C948	S	ECEA1VS330	Electrolytic,	35V,	33μF	
C949	S	ECEA1AS221	Electrolytic,	10V,	220μF	
C961	S	ECEA1JS4R7	Electrolytic,	63V,	4.7μF	
C962	S	ECUX1H223ZF	Chip,	50V,	0.022μF,	+80 −20%
C963	S	ECKD1H333ZF	Ceramic,	50V,	0.033μF,	+80 −20%
C964, 965	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C966	S	ECEA50Z1	Electrolytic,	50V,	1μF	
C990	S	ECKD1H103ZF	Ceramic,	50V,	0.01μF,	+80 −20%
C991	S	ECKD1H223ZF	Ceramic,	50V,	0.022μF,	+80 −20%
C992	S	ECKD1H331KB	Ceramic,	50VAC,	330pF,	± 10%
C1001	S ⚠	ECKDMY103PF	Ceramic,	125VAC,	0.01μF,	+100 −0%
C1002, 1003	S ⚠	ECKDMY471KB	Ceramic,	125VAC,	470pF,	± 10%

■ PRINTED CIRCUIT BOARD

Ground (Earth) Lines

A Tuner circuit



Q201 2SC828

E	0
C	0
B	0

Q102 2SC828

	mono	auto
E	0	0
C	0	1.4
B	0.6	0.2

Q101 2SC828

	mono	auto
E	0	0
C	1.7	0
B	0	0.6

IC101 SVIμPC1018C

	AM	FM		AM	FM
1	6.2	0	9	0	0
2	0	0	10	0.8	0
3	0	0	11	6.1	0
4	—	—	12	6.3	0
5	5.4	5.4	13	0.5	0.6
6	6.7	6.7	14	0.7	0
7	5.9	5.9	15	6.3	0
8	5.4	5.4	16	6.3	0

IC301 SVIμPC1161C

1	14.1	9	mono 13.6
2	2.6		stereo 0.7
3	5.9	10	2.6
4	11.8	11	2.6
5	11.8	12	2.6
6	4.5	13	2.6
7	4.9	14	2.6
8	0	15	3.6
		16	mono 4.0
			stereo 0

Q1 2SK195

S	0
D	12.5
G	0

IC102 SVIμPC1167C2

	AM	FM		AM	FM
1	3.0	2.4	9	5.9	5.9
2	3.6	2.4	10	5.9	5.9
3	3.0	2.4	11	12.1	12.1
4	0	0	12	6.1	6.1
5	2.2	0	13	0	0
6	5.5	5.5	14	0	0
7	6.0	6.0	15	—	—
8	5.9	5.9	16	5.3	5.3

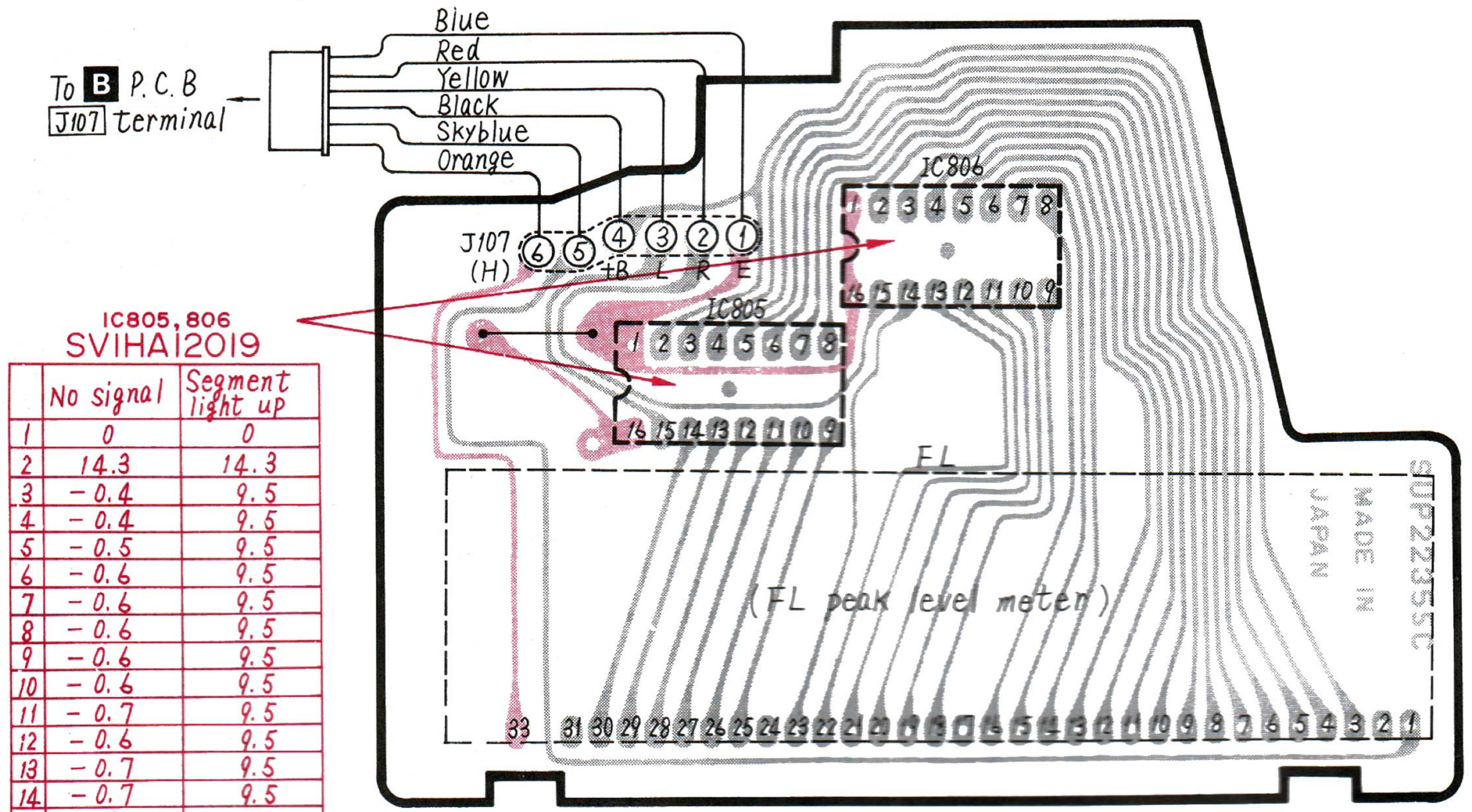
Q3 2SC1675

E	1.4
C	13.2
B	2

Q2 2SC1674

E	0
C	13.8
B	0.7

D FL circuit

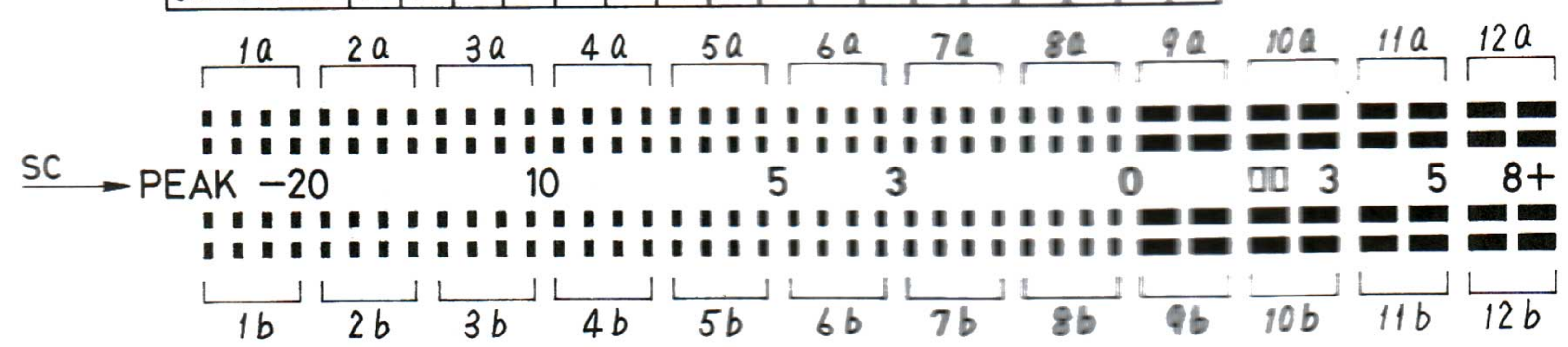


IC805, 806 SVIHA12019

	No signal	Segment light up
1	0	0
2	14.3	14.3
3	−0.4	9.5
4	−0.4	9.5
5	−0.5	9.5
6	−0.6	9.5
7	−0.6	9.5
8	−0.6	9.5
9	−0.6	9.5
10	−0.6	9.5
11	−0.7	9.5
12	−0.6	9.5
13	−0.7	9.5
14	−0.7	9.5
15	0	0
16	0	0

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CONNECTION	F	NP	G	1a	2a	3a	4a	5a	6a	G	1b	2b	3b	4b	5b	6b	NC

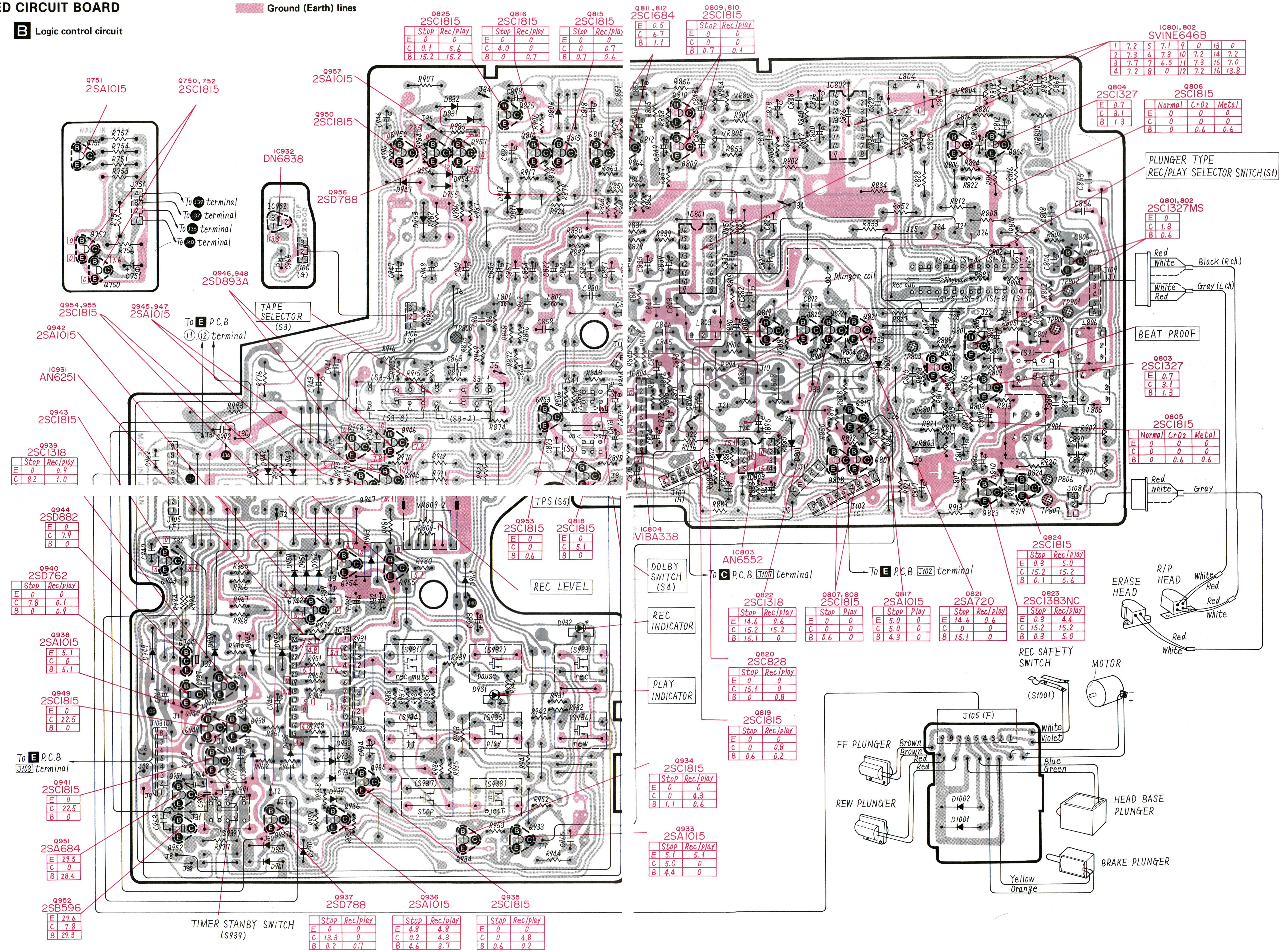
PIN No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
CONNECTION	7b	8b	9b	10b	11b	12b	G	7a	8a	9a	10a	11a	12a	SC	G	F



■ PRINTED CIRCUIT BOARD

B Logic control circuit

Ground (Earth) lines



■ PRINTED CIRCUIT BOARDS

■ REPLACEMENT PARTS LIST..... Rear side of Cabinet Parts

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by △ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Areas

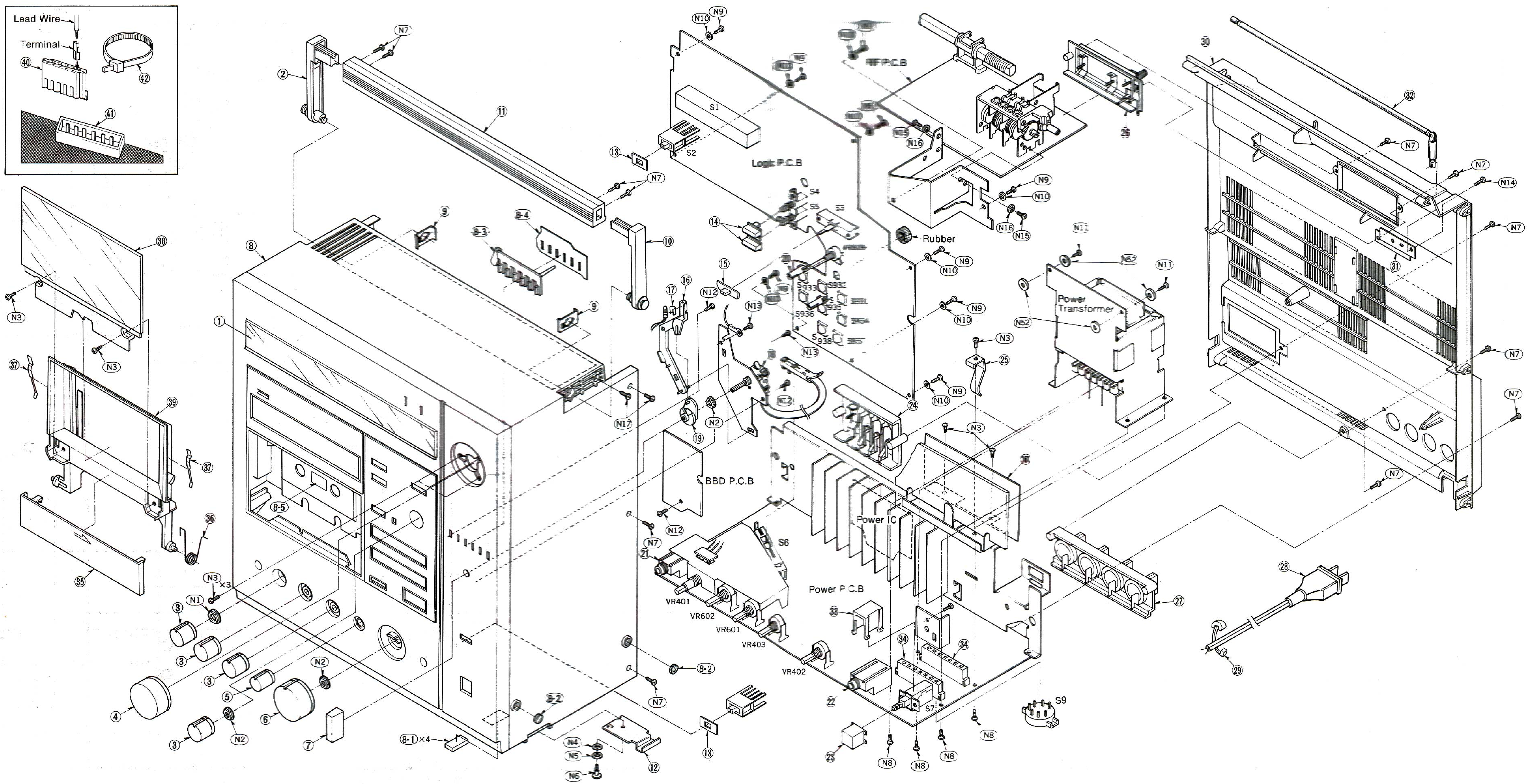
* [MX] is available in U.S.A. and Central South America.
* [MC] is available in Canada.

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SGU219	Panel, Transparent
2		SKH137	Bracket, Handle (Left)
3		SBN1035	Knob, Bass Treble, Rec Level Control
4		SBN1031	Knob, Tuning
5		SBN1033	Knob, Balance Control
6		SBN1029	Knob, Volume Control
7		SBN1003	Knob, Input Selector
8		SGWAC06M	Panel, Front Ass'y
8–1		SHS3255–1	Felt, Foot
8–2		SHR9525	Felt,
8–3		SGL109	Light, Input Selector
8–4		SHR6015–1	Sheet, Input Selector
8–5		SGE637–1	Sheet, Cassette
9		SKT33	Bracket, Handle
10		SKH137	Bracket, Handle (Right)
11		SKX277–2	Handle
12		SKE65–1	Bracket
13		SHR5127	Spacer
14		SBC357	Button
15		SBC353	Button
16		SDG511	Holder, Input Selector
17		SHP9355	Paper Lamp Holder
18		ESA3384B	Switch, Input Selector
19		SDG509	Cam, Input Selector
20		SUD221	Holder
21		XCJ6P21F–A1	Jack, Mic
22		XCJ6P21E–A1	Jack, Headphone
23		SBC307–2	Button
24		SJF8703N	Terminal, Input Selector
25		SUS181	Spring
26		SJF4429–1	Terminal, Antenna
27		SJF4427–2	Terminal, Speaker
28		RJA9Y	AC Cord, Power Source
29		RHR111	Bushing, AC Cord
30 [MX]		SGPAC06MX	Panel, Rear
30 [MC]		SGPAC06C	Panel, Rear
31		SJT95	Bracket
32		XEAQCR228ECY	Telescopic Antenna
33		SHR9587	Cover, Power Switch
34		SJS5713	Socket, Transformer
35		SGX7073	Plate, Arnament
36		SMQ6009–1	Spring
37		SMQ6019–1	Spring
38		SGU223	Plate, Cassette
39		SGX7075–1	Holder,
40		SJS5215	Socket, 2 Pin
40		SJS5331	Socket, 3 Pin
40		SJS5523	Socket, 5 Pin
40		SJS5629	Socket, 6 Pin
40		SJS5811	Socket, 8 Pin
40		SJS5907	Socket, 9 Pin

Ref. No.		Part No.	Part Name & Description
41		SJT3213	Connector, 2 Pin
41		SJT3319	Connector, 3 Pin
41		SJT3611	Connector, 6 Pin
41		SJT3809	Connector, 8 Pin
41		SJT3907	Connector, 9 Pin
41		SJT3909	Connector, 9 Pin
42		SHR301	Lead, Clamper
43		SDH531	Reflector Panel
44		SHRA403	Pin, Drum
45		SDD34–1	Drum, Dial
46		SDSA4121	Spring, Dial
47		SDT8085–1	Shaft, Tuning
48		SDR3	Pulley, Dial
49		SDZ051–2	Cord, Dial
50		SDP1151	Pointer, Dial
51		SDA91	Spacer, Dial Pointer Slide
52		SMQ3033–1	Lever Eject
53		SMQ6013–1	Lever Eject
54		SMQ5011–1	Lever Eject
55		SMQ3021–1	Lever Eject
56		SMQ6011–1	Spring, Eject
57		SMQ3019–1	Lever Eject
58		SHR5125–1	Spacer, Power Transformer
59		SBC351	Button, Tape Counter
60		SME71	Bracket, AC Cord
61		SBC387	Button, Rec Mute
62		SBC377	Button, Pose
63		SBC385	Button, Rec
64		SBC381	Button, FF
65		SBC375	Button, Play
66		SBC383	Button
67		SBC379	Button
68		SBC359	Button
69		SGL115	Ornament
70		SGL113	Ornament
71		SDU71	Sheet
72		SGU221	Transparent Cover
73		SMQ1005–1	Bracket, Eject
74		SJT507	Bracket, Earth
75		SUE19	Gear
76		SGX7131	Bracket
77		SMQ3025	Bracket
78		SMQ3023	Bracket
79		SMQ2005	Tape, Counter
80		SMQ2007	Belt, Counter
81		SMQ3029	Bracket
81–1		SMQ6017	Spring
82		SMQ3031	Bracket
83		SHR9547–2	Holder
84		SMQT1083	Spring, Brake
85		SMQT1085	Bracket, Guide
86		SMQT1087	Reel, Tape
87		SMQT1089	Reel, Speed
88		SMQT1091	Brake, Arm
89		SMQT1093	Brake, Arm

■ EXPLODED VIEWS

• Cabinet and Chassis Parts



■ SCHEMATIC DIAGRAM Ⓐ (Power amplifier and power supply circuit)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes 1:

1. **S6** : Input selector switch in "**tape**" position
   ① AM ↔ ② FM mono ↔ ③ FM auto ↔ ④ tape ↔ ⑤ phono ↔ ⑥ aux
2. **S7** : Power switch in "**on**" position.
3. **S9** : Voltage selector switch in "**240V**" position.
   ① 120V ↔ ② 110V ↔ ③ 220V ↔ ④ 240V
4. ☐ Indicated voltage values are the standard values for the unit measured by the DC electric circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
5. Positive voltage lines / AF signal lines of left channel / Recording signal line / Mic signal line
6. The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. without ✪ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

IMPORTANT SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

■ PIN NAME AND OPERATION OF LOGIC IC (AN6251)

Pin No.	Mark	Operation	Pin No.	Make	Operation	Pin No.	Make	Operation
①	GND	Earth (Ground)	⑨	PAS IN	Pause instruction input	⑰	D-PLAY OUT	Delay Playback operation output
②	REW IN	Rewind instruction input	⑩	REC IN	Record instruction input	⑱	BRK OUT	Brake releasing output
③	FF IN	FF instruction input	⑪	REC INH	Record inhibiting instruction input	⑲	STP OUT	Stop mode output
④	EBR IN	Electric brake reset input	⑫	PAS OUT	Pause mode output	⑳	TMS OUT	Timer start output
⑤	CR1	Reset input with power ON	⑬	PLAY OUT	Playback mode output	㉑	CR3	Timer start time constant
⑥	STP IN	Stop instruction input	⑭	REC OUT	Record mode output	㉒	FF OUT	FF mode output
⑦	REV IN	Reverse playback instruction input	⑮	CAP OUT	Capstan rotating direction output.	㉓	REW OUT	Rewind mode output
⑧	FWD IN	Forward playback instruction input	⑯	CR2	D-PLY time constant	㉔	Vcc	Power supply terminal

- **Relationship of each operation mode with output (AN6521)**

Output / Mode	㉒ FF	㉓ REW	⑬ PLY	⑰ D-PLY	⑫ PAS	⑲ STP	⑭ REC	⑱ BRK
PLAY	″H„	″H„	″L„	″L„★	″H„	″H„	″H„	″L„

★ Delay

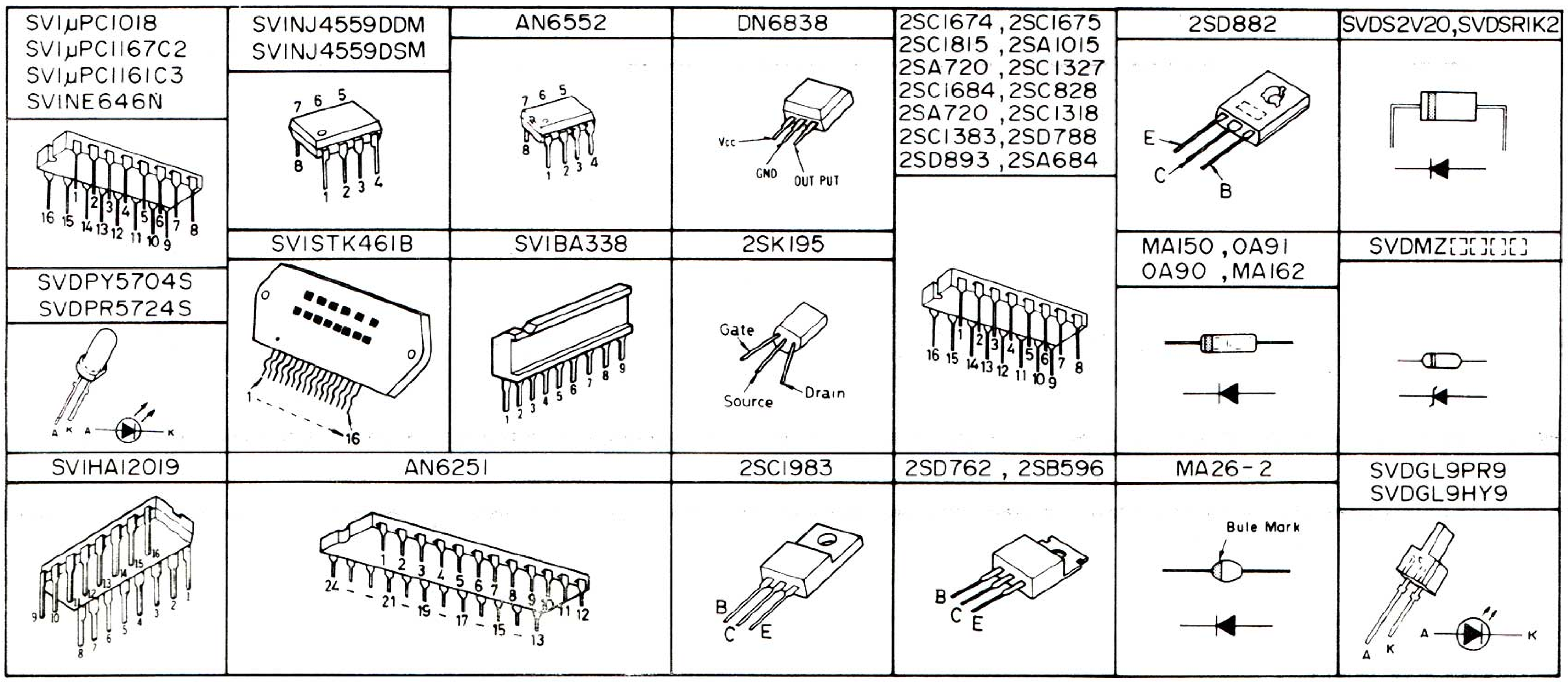
Output / Mode	㉒ FF	㉓ REW	⑬ PLY	⑰ D-PLY	⑫ PAS	⑲ STP	⑭ REC	⑱ BRK
REC	″H„	″H„	″H„	″H„	″H„	″H„	″L„	″L„

Output / Mode	㉒ FF	㉓ REW	⑬ PLY	⑰ D-PLY	⑫ PAS	⑲ STP	⑭ REC	⑱ BRK
FF	″L„	″H„	″H„	″H„	″H„	″H„	″H„	″L„

Output / Mode	㉒ FF	㉓ REW	⑬ PLY	⑰ D-PLY	⑫ PAS	⑲ STP	⑭ REC	⑱ BRK
REW	"H"	"L"	"H"	"H"	"H"	"H"	"H"	"L"

Output / Mode	㉒ FF	㉓ REW	⑬ PLY	⑰ D-PLY	⑫ PAS	⑲ STP	⑭ REC	⑱ BRK
STOP	"H"	"H"	"H"	"H"	"H"	"L"	"H"	"H"
PAUSE	"H"	"H"	"H"	"H"	"L"	"H"	"H"	"H"

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



■ SCHEMATIC DIAGRAM Ⓑ (Tuner, REC/PLY amplifier, Logic control and FL circuit)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes 2 :

1. **S1-1 ～ S1-8** : Rec/play selector switch in "**play**" position.
2. **S2** : Beat-Prevention switch in "**A**" position. A←→B←→C
3. **S3-1 ～ S3-4** : Tape selector switch in "**normal**" position. normal←→CrO_2←→Metal
4. **S4** : Dolby noise-reduction switch in "**in**" position. out←→in
5. **S5** : Tape program selector switch in "**on**" position. off←→on
6. **S931 ～ S938** : Cassette deck switch.

S931 :	Record-muting	S935 :	Playback
S932 :	Pause	S936 :	Rewind
S933 :	Record	S937 :	Stop
S934 :	Fast-forward	S938 :	Eject

7. **S939** : Timer stand-by switch in "**off**" position. rec←→off←→play
8. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
   * Figures in ▭ stand for DC voltage in FM mono signal reception mode and AF circuit no-signal mode.
   * Figures in ( ) stand for DC voltage in AM signal reception mode.
   * Figures in ⌜ ⌟ stand for DC voltage in FM (no signal) muting to on mode.
   * Figures in < > stand for DC voltage in FM stereo signal reception mode.
   * Figures in [ ] stand for DC voltage in Rec or Play mode.
   * Figures in ⁞ ⁞ stand for DC voltage in playing mode.
9. ▬ Positive voltage lines.
10. The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. without ✪ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

IMPORT

The shaded area ... porates special fe... from fire and elect... When servicing it i... er's specified part... ponents in the shad...

o. of transistors, IC and diodes mentioned in the
iagram stand for production part No. Regarding the
thout ✪ mark, the production part No. are different
placement part No. Therefore, when placing an order
nent parts, please use the part No. in the replacement

IMPORTANT SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

■ REPLACEMENT PARTS LIST..... Rear side of Cabinet Parts

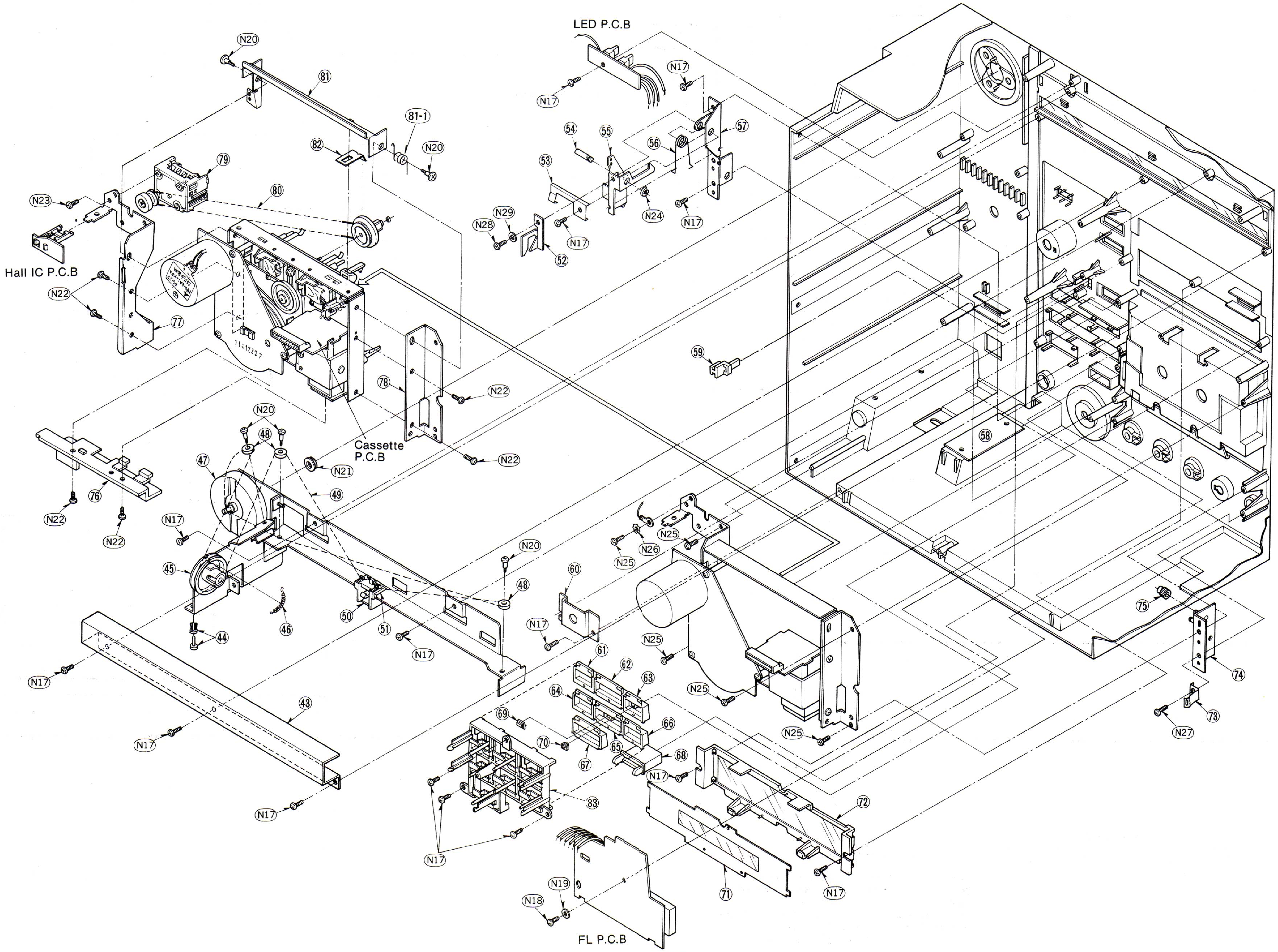
Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice:
   Components identified by Δ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Ref. No.		Part No.	Part Name & Description
90		SMQT1095	Brake, Lever
91		SMQT1097	Brake, Arm
92		SMQT1099	Brake, Arm
93		SMQT1101	Brake, Lever
94		SMQT1103	Panel, Head
95		SMQT1105	Lever
96		SMQT1107	Spring, Head Panel
97		SMQ2082	Guide
98		SMQ2086	Guide
99		SMQT1109	Stopper, Panel
100		SJH13	Head, Record/Play Back
101		SJH11	Head, Erase
102		SMQT1111	Bracket, Head
103		SMQT1113	Bracket, Head
104		SMQT1115	Pinch Roller
105		SMQT1063	Spring, Head
106		SMQT1117	Bracket
107		SMQT1119	Gear
108		SMQT1121	Idler Arm
109		SMQT1123	Idler
110		SMQT1125	Lever
111		SMQT1127	Spring
112		SMQT1129	Spring
113		SMQT1131	Sleeve
114		SMQT1133	Cap
115		SMQT1135	Gear Base, Rewind
116		SMQT1137	Gear, Rewind
117		SMQT1141	Lever, Brake
118		SMQT1143	Lever, Record
119		SMQT1145	Armature
120		SMQT1147	Spacer
121		SMQT1149	Solenoid
122		SMQT1151	Solenoid, Rewind
123		SMQT1153	Spring, Rewind
124		SMQT1155	Spring
125		SMQT1157	Coller
126		SMQT1159	Switch
127		SMQT1161	Clutch
128		SMQT1163	Belt
129		SMQT1165	Bressing Base
130		SMQT1167	Bracket
131		SMQT1169	Lever
132		SMQT1171	Metal, Flywheel
133		SMQT1173	Capstan, Flywheel
134		SMQT1175	Plate, Flywheel
135		SMQT1177	Damper, Flywheel
136		SMQT1179	Belt, Main
137		SMQT1033	Spring
138		SMQT1035	Gear

Ref. No.		Part No.	Part Name & Description
139		SMQT1181	Coil, Plunger
140		SMQT1183	Plunger
141		SMQT1185	Spring, Plunger
142		SMQT1187	Coil, Plunger
143		SMQT1189	Plunger
144		SMQT1191	Pin, Lever
145		MM16A2LKFA	Motor
146		SMQT1193	Pulley
147		SMQT1195	Screw, Motor
148		SMQT1199	Bracket, P.C.B.
149		SMQT1201	Spring
150		SMQT1203	Spring
151		SMQT1205	Rubber, Motor
152		SMQT1209	Clamper
153		SMQT1211	Spacer
154		SMQT1055	Spacer
155		SMQT1213	Spacer
156		SMQT1215	Stopper
157		SMQT1217	Stopper
158		SMQT1219	Spacer
159		SMQT1221	Spacer
160		SMQT1227	Washer
161		SMX543	Sheet
SCREWS, WASHERS and NUTS			
N1		SNE4043	Nut
N2		SNE4021	Nut
N3	S	XTB3+8BFN	Screw, Tapping, ⊕ 3 x 8
N4		SHW41K20	Washer
N5		SHG709	Washer, Rubber
N6		SHD4X25	Screw, ⊕ 4 x 25
N7	S	XTB3+10BFN	Screw, Tapping, ⊕ 3 x 10
N8	S	XTB4+12BFZ	Screw, Tapping, ⊕ 4 x 12
N9	S	XTN3+10B	Screw, Tapping, ⊕ 3 x 10
N10	S	XWG3	Washer, Plain, $\phi 3$
N11	S	XTB3+10BFN	Screw, Tapping, ⊕ 3 x 10
N12	S	XTB3+10BFN	Screw, Tapping, ⊕ 3 x 10
N13		XTBS3+8BFZ1	Screw, Tapping, ⊕ 3 x 8
N14	S	XSN3+14BVS	Screw, ⊕ 3 x 14
N15	S	XSN3+5S	Screw, ⊕ 3 x 5
N16	S	XWA3B	Screw, Spring, $\phi 3$
N17	S	XTB3+10BFN	Screw, Tapping, ⊕ 3 x 10
N18	S	XTN3+10B	Screw, ⊕ 3 x 10
N19	S	XWG3	Washer, Plain, $\phi 3$
N20		SHD3X21F−1	Screw, ⊕ 3 x 21
N21		SNE4045	Nut
N22	S	XTB3+8BFN	Screw, Tapping, ⊕ 3 x 8
N23		XTN26+8BFZ	Screw, ⊕ 2.6 x 8
N24		XUC25FT	Circlip

■ EXPLODED VIEWS

• Cabinet (Rear side view)



• Cassette deck (body)

■ REPLACEMENT PARTS LIST...Cassette Tape Deck

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The "S" mark is service standard parts and may differ from production parts.

Ref. No.		Part No.	Part Name & Description
N25	S	XTB3+10BFN	Screw, Tapping, ⊕ 3 x 10
N26	S	XWC3B	Washer, External Toothed Lock, ϕ3
N27		XTBS3+8BFZ1	Screw, Tapping, ⊕ 3 x 8
N28	S	XSN3+5S	Screw, ⊕ 3 x 5
N29	S	XWA3B	Washer, Spring, ϕ3
N30		XSN2+8	Screw, ⊕ 2 x 8
N31		XWA2B	Washer, Spring, ϕ2
N32		XSN2+14	Screw, ⊕ 2 x 14
N33		XSN2+6BN	Screw, ⊕ 2 x 6
N34		XSN2+5	Screw, ⊕ 2 x 5
M35		XSN23+14FZ	Screw, ⊕ 2.3 x 14
N36		XYN23+C8	Screw, ⊕ 2.3 x 8
N37		XYN23+C6	Screw, ⊕ 2.3 x 6
N38		XSN26+5	Screw, ⊕ 2.6 x 5
N39		XWA26B	Washer, Spring, ϕ2.6
N40		XSN26+6	Screw, ⊕ 2.6 x 6
N41		XTN26+6B	Screw, ⊕ 2.6 x 6
N42		XSN26+4	Screw, ⊕ 2.6 x 4
N43		XWA26B	Washer, Srping, ϕ2.6
N44		XSN26+5	Screw, ⊕ 2.6 x 5
N45		XSN3+5S	Screw, ⊕ 3 x 5
N46		XWA3B	Washer, Srping, ϕ3
N47		XSN26+8	Screw, ⊕ 2.6 x 8

Ref. No.		Part No.	Part Name & Description
N48		XWA26B	Washer, Spring, ϕ2.6
N49		XUC25FT	Circlip
N50		XUC15FT	Circlip
N51		XSN26+5	Screw, ⊕ 2.6 x 5
N52		SHW40F120	Washer, Power Transformer
ACCESSORY			
A1 [MX]		RJP120ZBS	Plug
PACKING PARTS			
P1 [MX]		SPG3711	Carton Box
P1 [MC]		SPG3713	Carton Box
P2		SPS3107–1	Pad, Left Lower Side
P3		SPS3109–1	Pad, Right Lower Side
P4		SPS3111	Pad, Left Upper Side
P5		SPS3113	Pad, Right Upper Side
P6		SPP675	Polyethylene Bag
P7 [MX]		SQF11103	Instructions Book, Printed Matter
P7 [MC]		SQF11105	Instructions Book, Printed Matter

Areas

* [MX] is available in U.S.A. and Central South America.
* [MC] is available in Canada.