

Service Manual

PIONEER



The photo shows the model SK-350

**ORDER NO.
HRT-185-0**

PORTABLE STEREO FM/AM RADIO CASSETTE RECORDER

SK-350

SK-300

D, DP

D, DP

SPECIFICATIONS

Max. output power 2W + 2W
 Max. music power. 15W (total music power)
 Speakers 16cm 2-way
 Frequency response Normal tape: 50Hz ~ 14kHz
 (SK-350) CrO₂ tape: 50Hz ~ 15kHz
 Metal Tape: 50Hz ~ 16kHz
 Frequency response. 50Hz ~ 14kHz
 (SK-300)
 Frequency range FM: 88 ~ 108MHz
 AM: 525 ~ 1,605kHz
 Input jack AUX
 Output jacks. LINE OUT, PHONES
 (SK-350)
 Output jack PHONES
 (SK-300)
 Power source 120/220/240V AC 50/60Hz
 12V DC (eight 1.5V "D" batteries)
 Dimensions (W x H x D) 532 x 220 x 123mm
 (SK-350) (21 x 8⁵/₈ x 4⁷/₈ in.)
 Dimensions (W x H x D) 532 x 220 x 120mm
 (SK-300) (21 x 8⁵/₈ x 4³/₄ in.)
 Weight 4.6kg (10.1 lbs., without batteries)

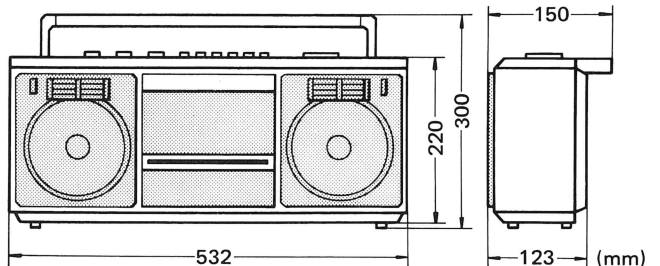
SK-350

(Subfunctions) Dolby NR, tape selector (METAL/
 CrO₂/NORM), one touch recording,
 music search, record muting, auto
 stop mechanism
 (Indicators) POWER (red LED), DOLBY NR (green
 LED), REC (red LED), TUNING (green
 LED), STEREO (red LED)

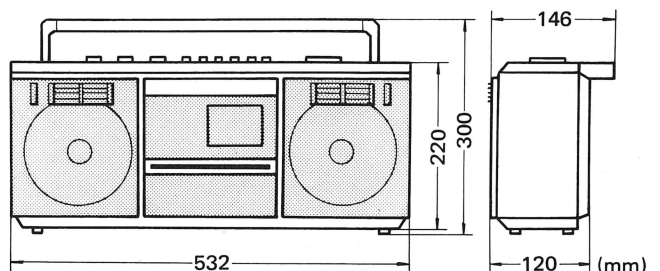
SK-300

(Subfunctions) One touch recording, music search,
 record muting, auto stop mechanism
 (Indicators) POWER (red LED), REC (red LED),
 TUNING (green LED), STEREO (red
 LED)

SK-350



SK-300



Note: Specifications and design are subject to change without notice.

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- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

1. PARTS LOCATION

NOTE

- For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
- ★★ : *GENERALLY MOVES FASTER THAN* ★.
- This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.*
- The ⚠ Mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● **SK-350**

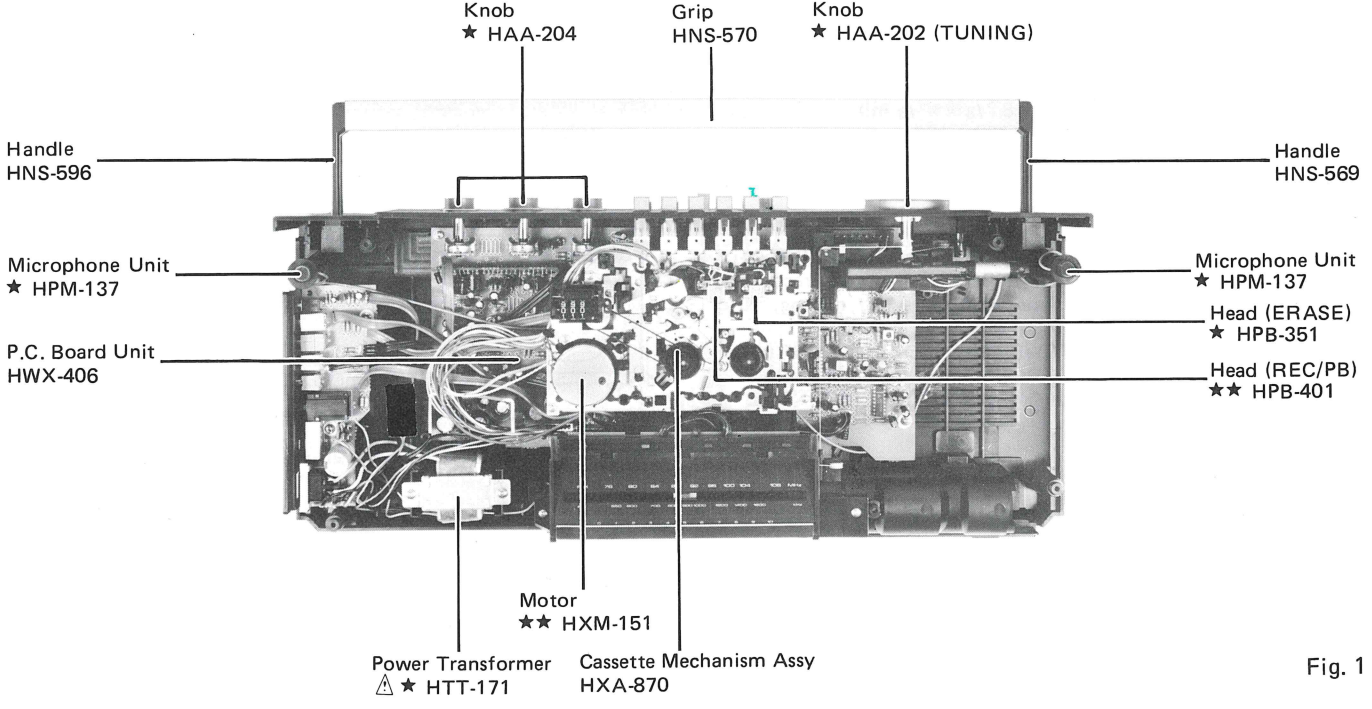


Fig. 1

● SK-300

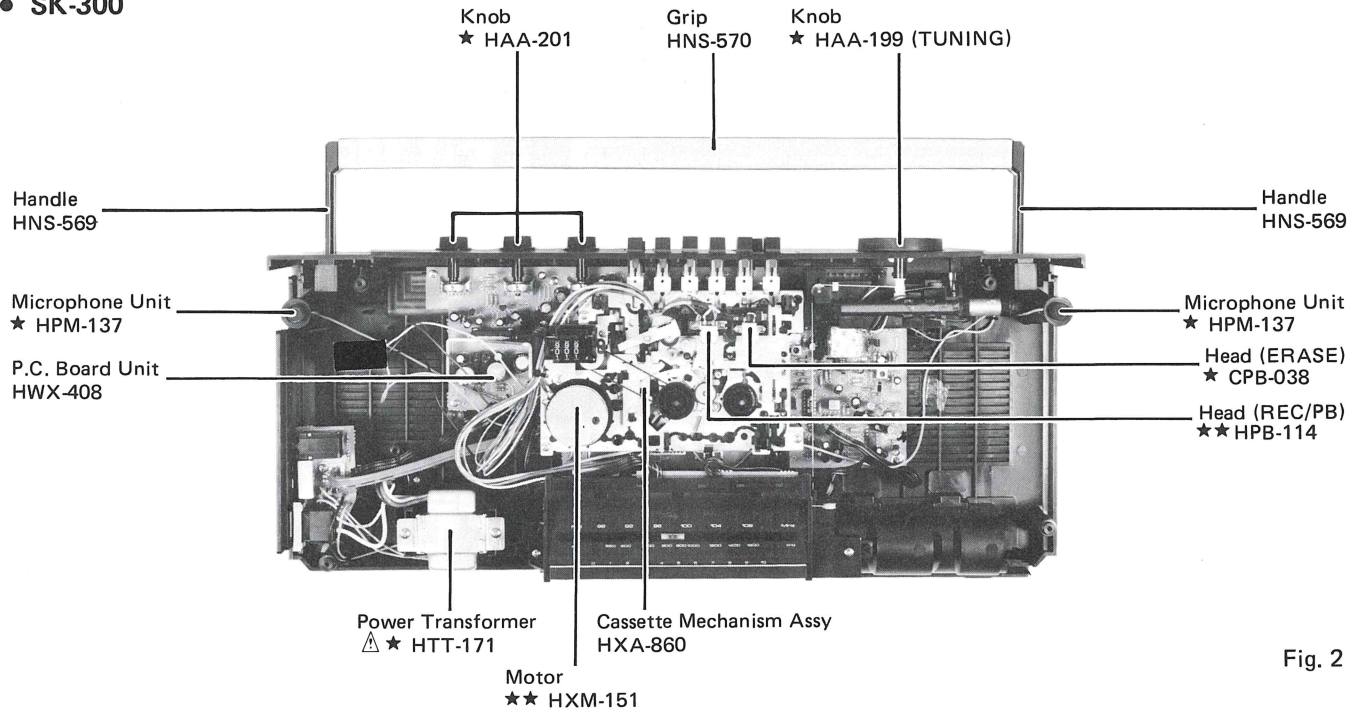


Fig. 2

2. MECHANISM DESCRIPTION

● Play Mode

When the PLAY lever is pressed, the head plate is pushed forward, resulting in the motor power switch being turned on to start the motor. The idler assembly is also activated, resulting in pulley unit rotation being transmitted to the reel unit.

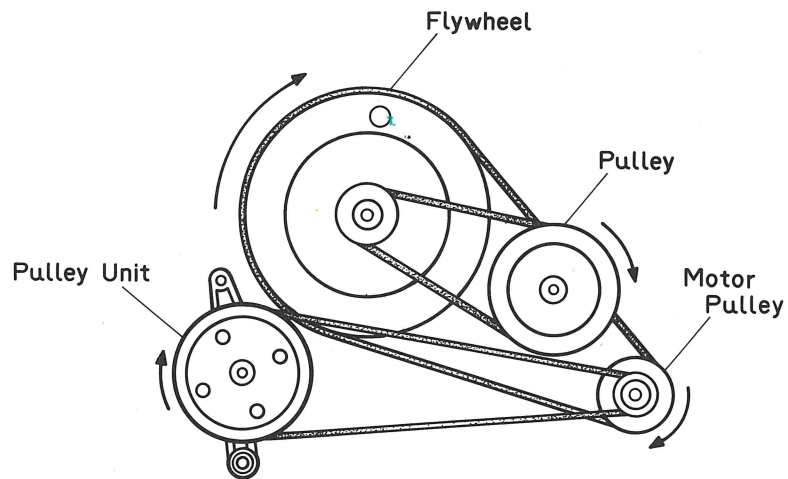


Fig. 3

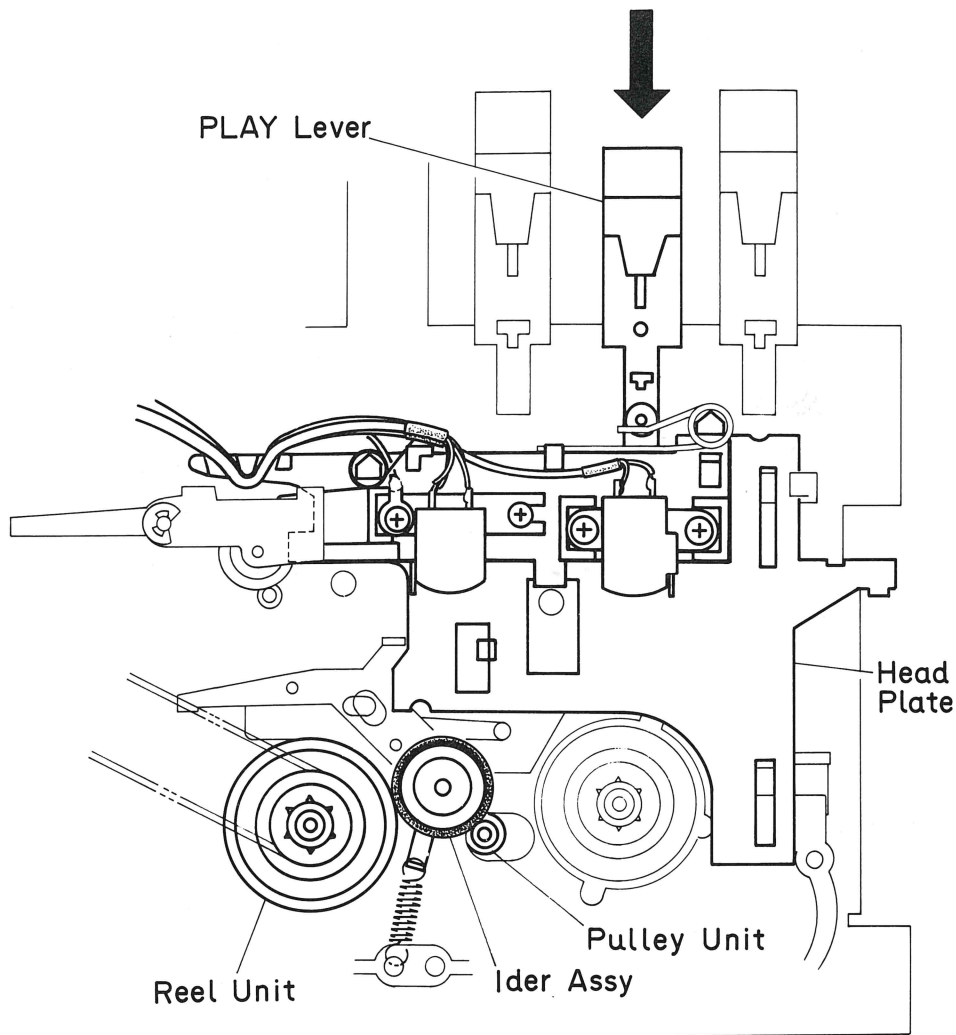


Fig. 4

● Record Mode

When the REC lever is pressed, the PLAY lever is also depressed, resulting in the same operation as during play mode. Depressing the REC lever also results in activation of the REC lever plate spring which switches the record/playback selector switch to recording status.

● Fast Forward Mode

When the FF lever is pressed, the motor power and the FF/REW switches are both switched on by the same arm movement. The gear assembly is also activated, resulting in pulley unit rotation being transmitted to the reel unit.

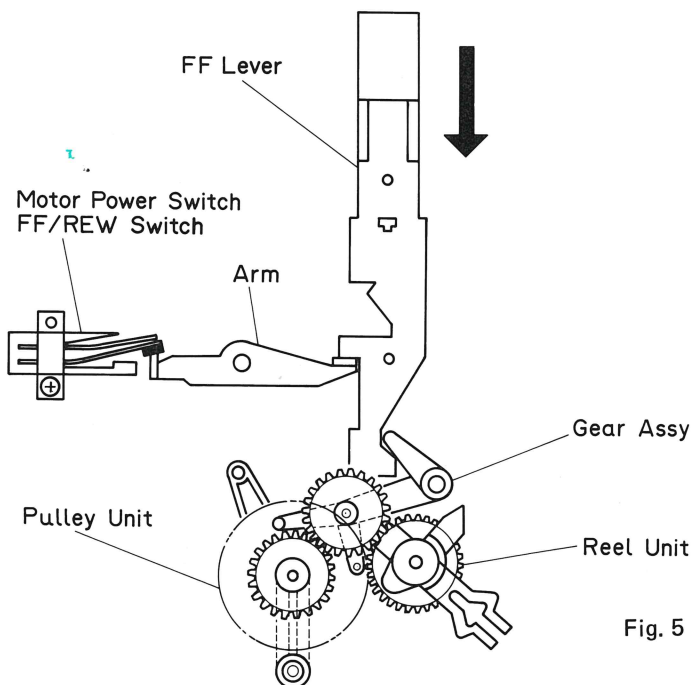


Fig. 5

• Rewind Mode

When the REW lever is pressed, the motor power and the FF/REW switches are both switched on by the same arm movement. The pulley unit is thus brought in contact with the reel unit for transmission of rotation.

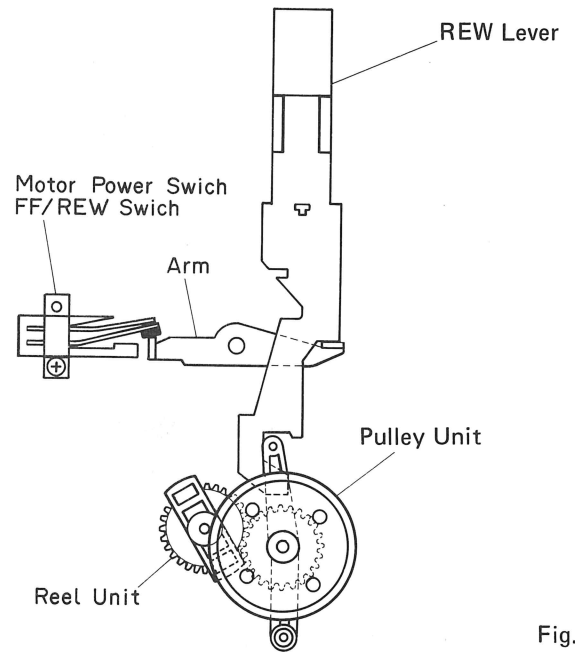


Fig. 6

• MS Fast Forward and Rewind Modes

1. MS fast forward or rewind mode is started when the FF or REW lever is pressed during play mode.
2. The head plate is moved back a little, and the rotating mechanism switched to fast forward or rewind operation.

3. When a blank section of tape is detected, a solenoid is activated, resulting in the lock lever being pulled back. The fast forward or rewind lock is cancelled, resulting in operation returning to play mode.

• Auto Stop Mode

1. Flywheel rotation is transmitted via pulley to the gear.
2. When the take-up reel unit is rotating during play, record, fast forward or rewind mode, the reel unit arm presses against the lever which is consequently forced to run around the inside of the gear groove. (Fig.8)

3. When the tape end is reached and the reel unit rotation stops, the lever moves to the tip of the reel unit arm and subsequently runs around the outside of the gear groove.
4. The lever then presses against the plate to cancel the transport mode and stop operation.

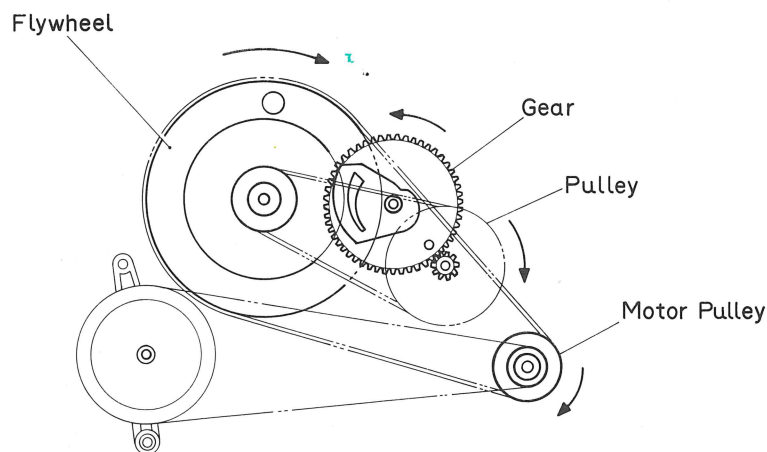


Fig. 7

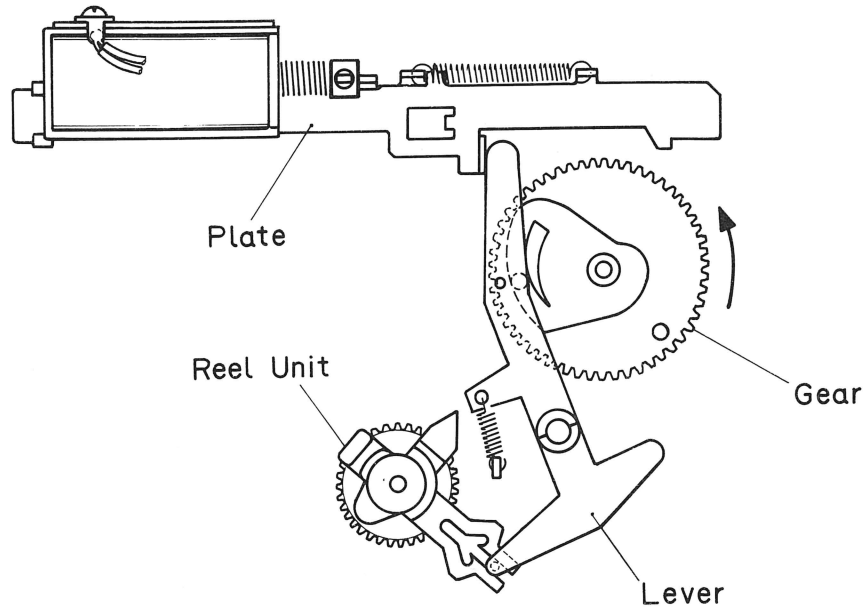


Fig. 8

3. CIRCUIT DESCRIPTION

3.1 TUNER SECTION

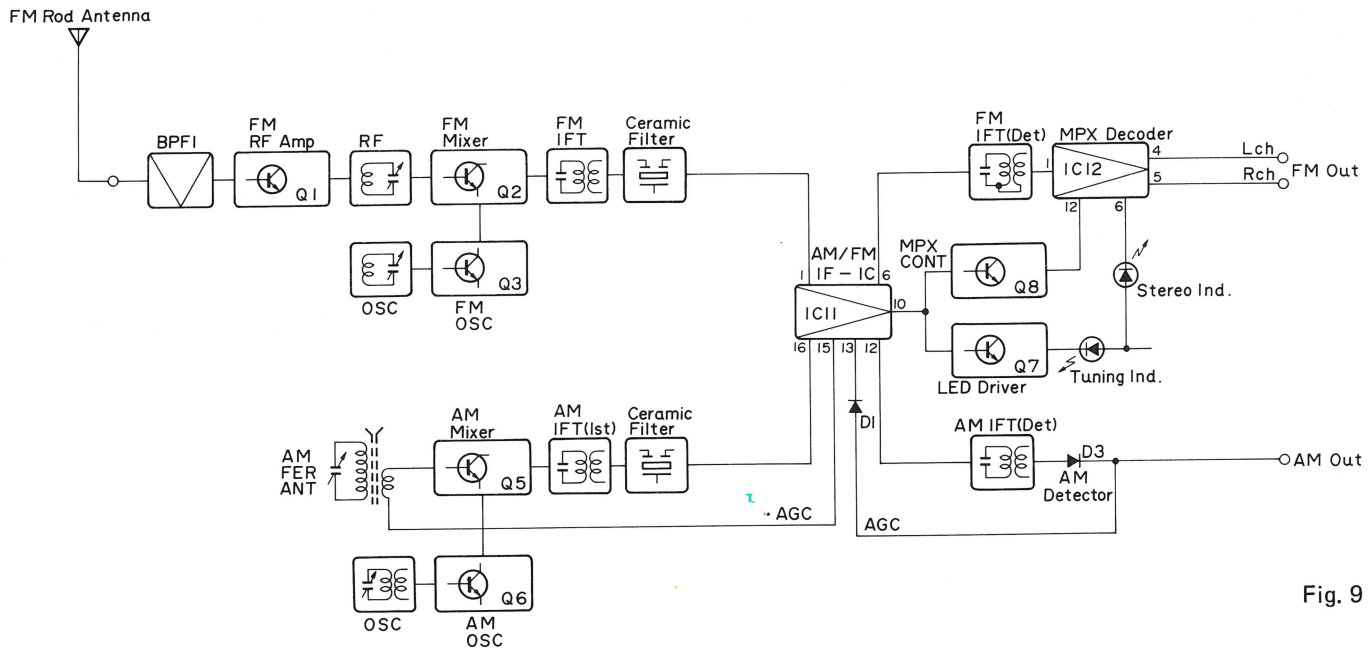


Fig. 9

- **Front End**

The front end consists of single stage RF amplifier (Q1) with a BPF on the antenna input side, a base injection mixer (Q2), and a modified Colpitts local oscillator (Q3).

- **IF Amp and Detector**

This stage consists of a 3-element ceramic filter and an IC (KB4419C – also used for AM) which contains a 4-stage differential amplifier quadrature detector.

- **FM Stereo Demodulator**

The FM stereo demodulator employs the PLL MPX IC (KB4424B). The stereo auto level is controlled by the tuning indicator output from the IF amplifier IC (KB4419C) via transistor Q8.

- **AM Tuner**

The AM tuner includes a 120mm ferrite bar antenna, an IF amplifier stage consisting of an externally-excited mixer and an IC (KB4419C), and AGC circuit and detector in addition to a dual variable capacitor and ceramic filter.

3.2 BLOCK DIAGRAM

• PLAY Mode (SK-350)

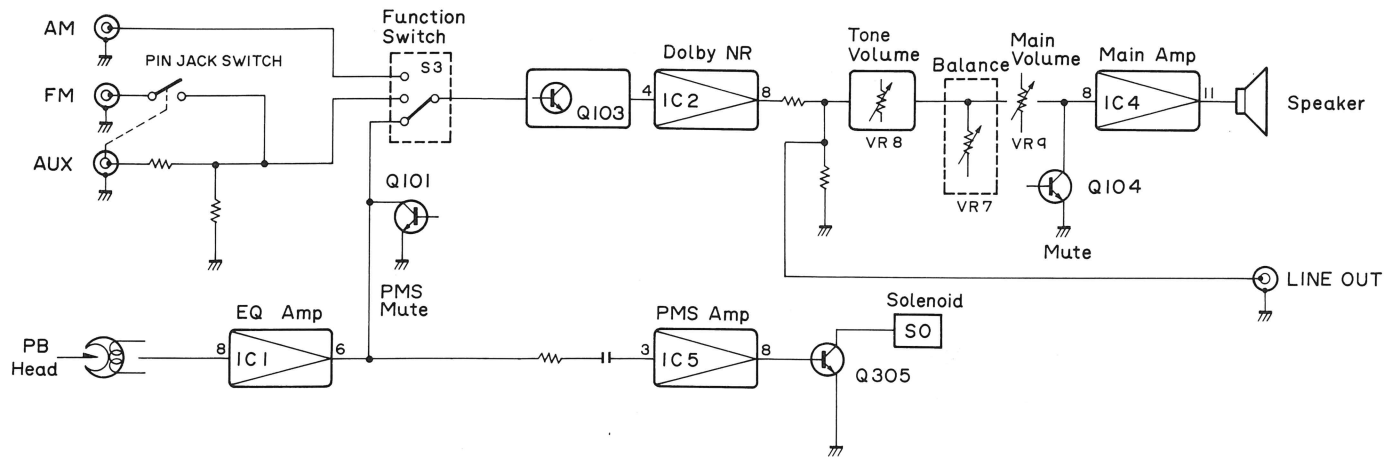


Fig. 10

• REC Mode (SK-350)

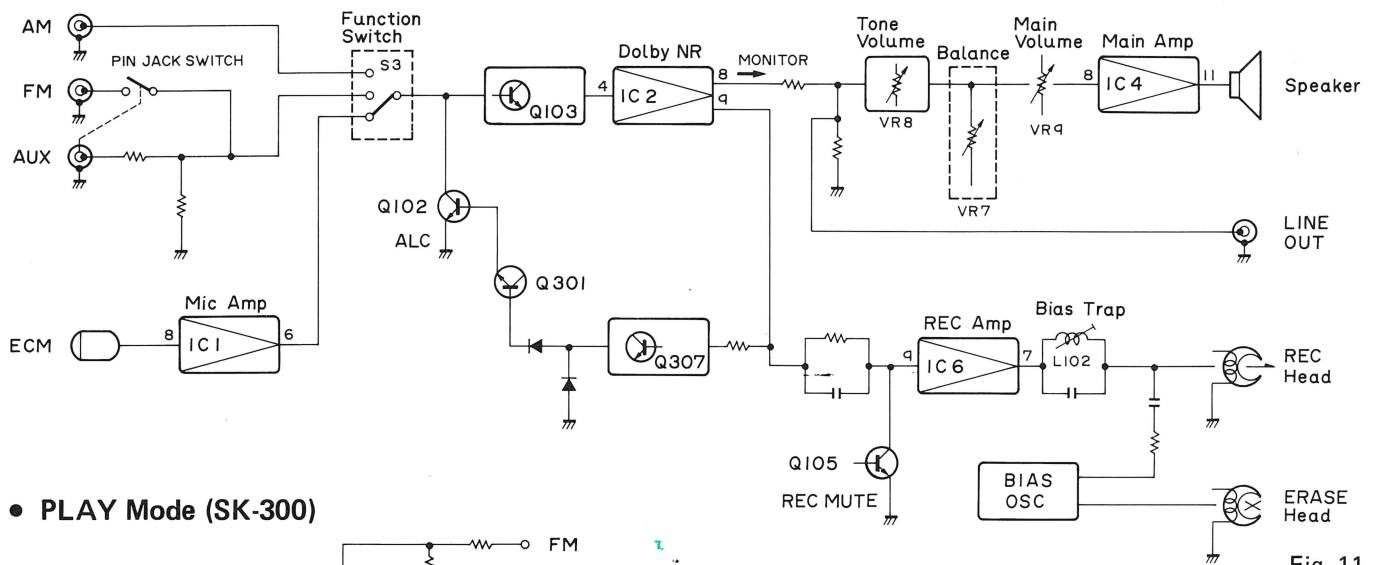


Fig. 11

• PLAY Mode (SK-300)

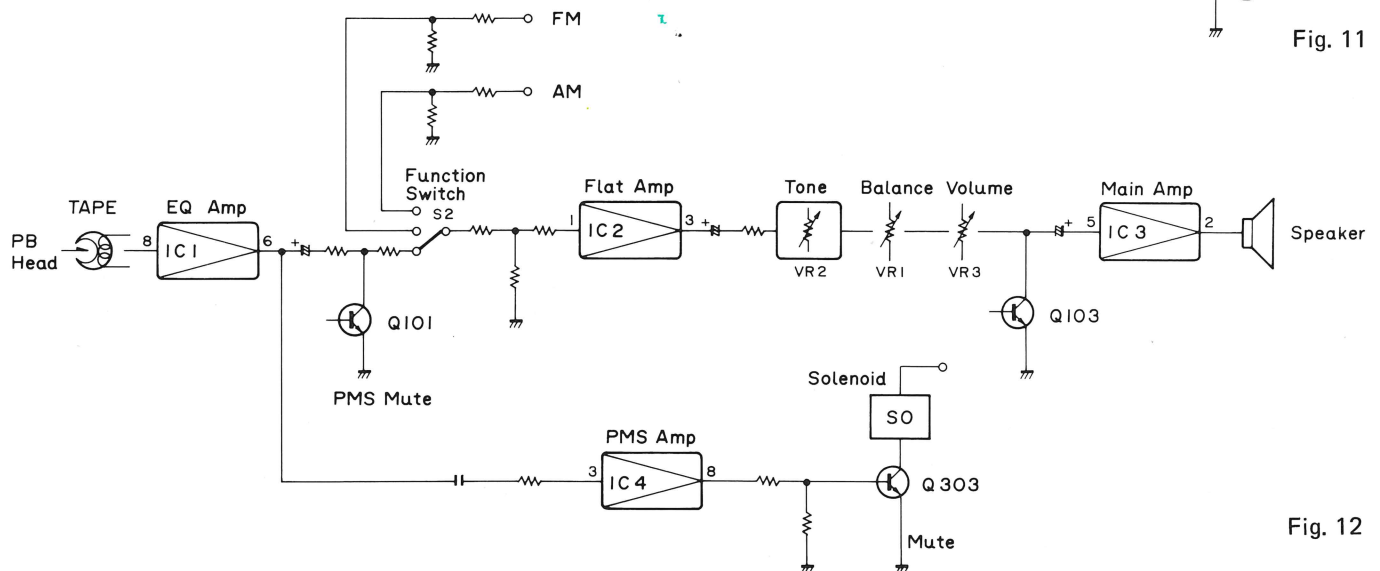


Fig. 12

● REC Mode (SK-300)

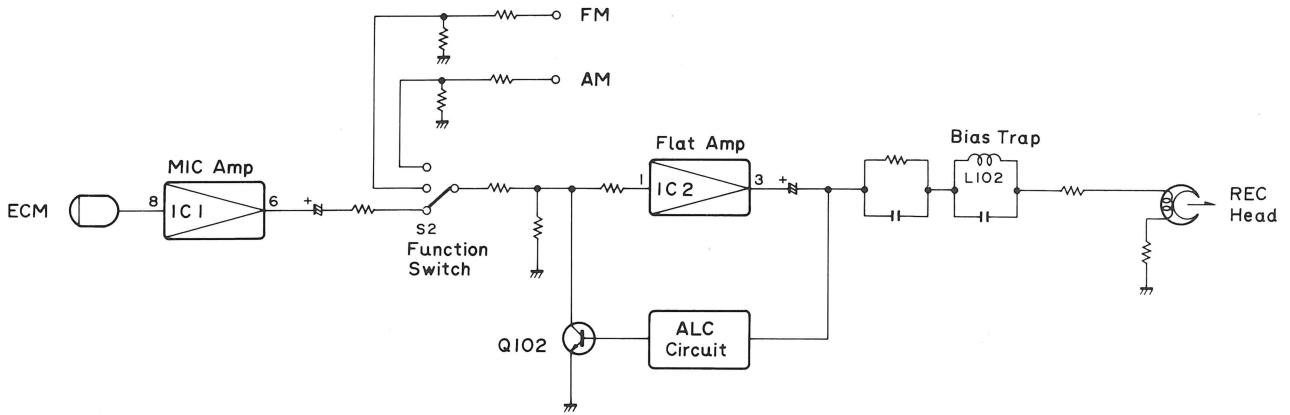


Fig. 13

3.3 LEVEL DIAGRAM

● PLAY Mode (SK-350)

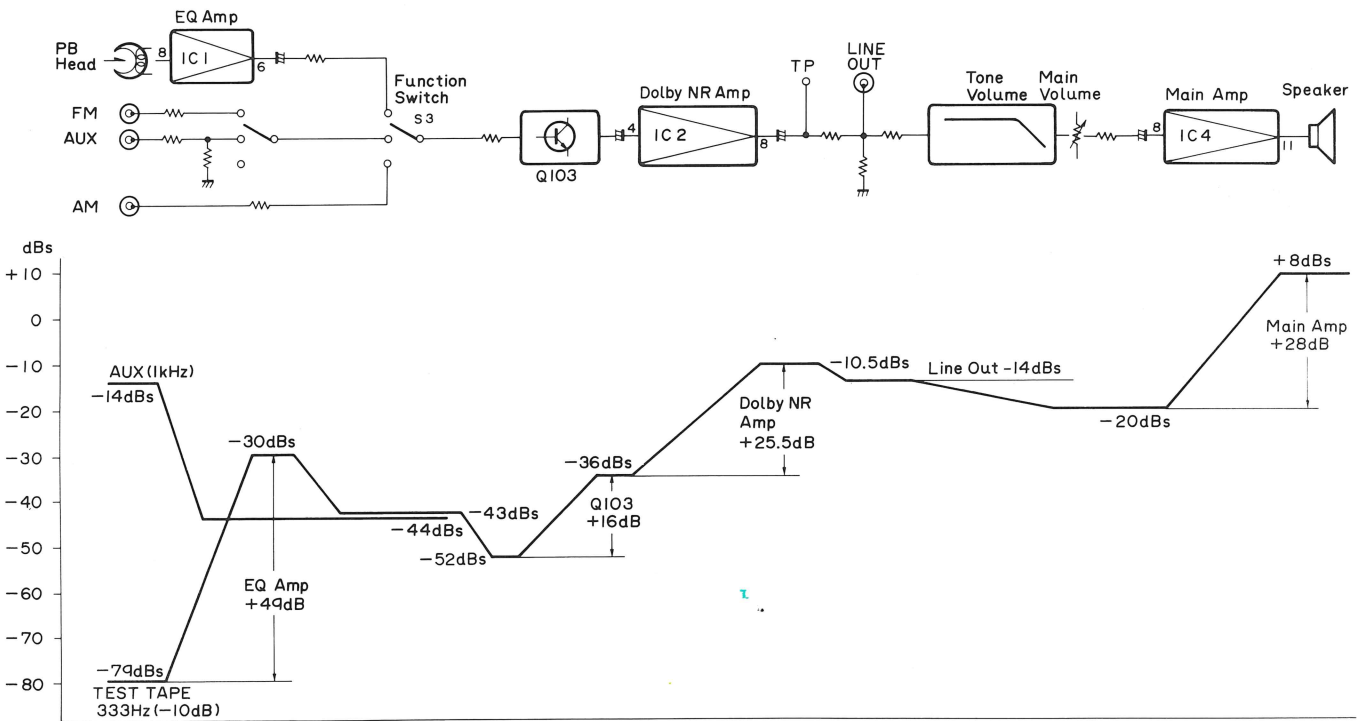


Fig. 14

● REC Mode (SK-350)

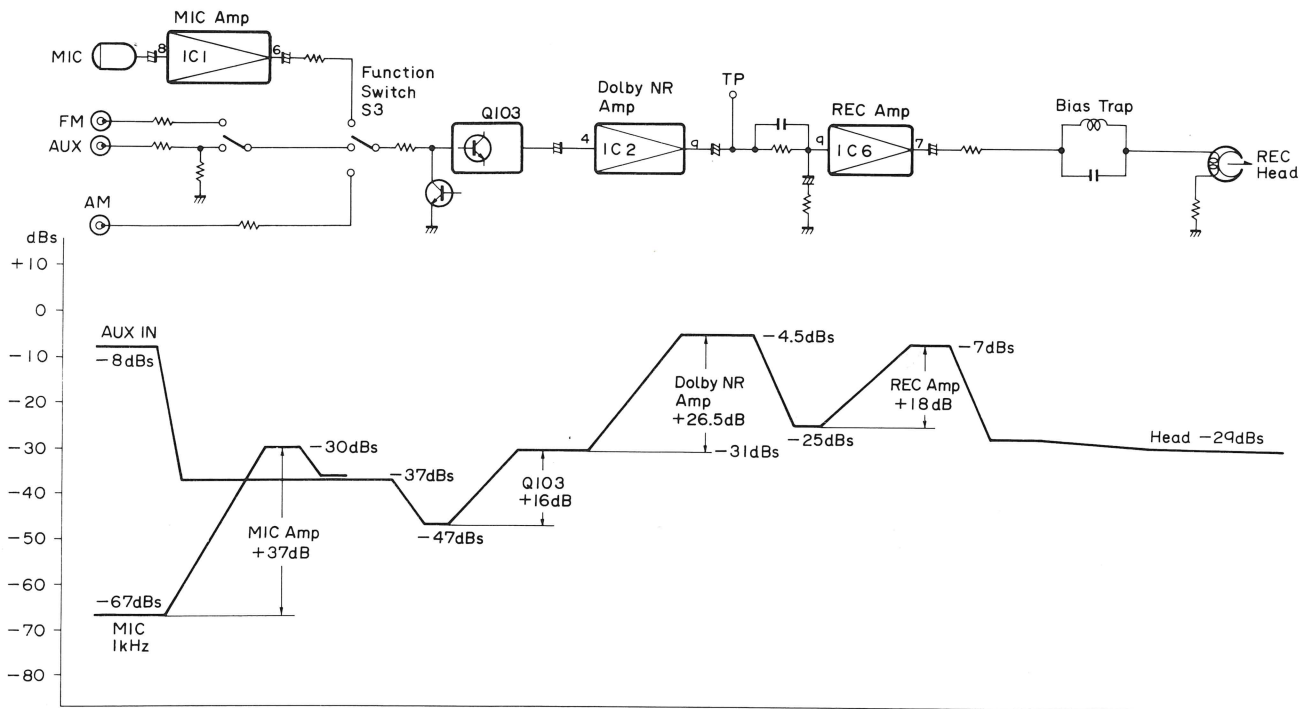


Fig. 15

● PLAY Mode (SK-300)

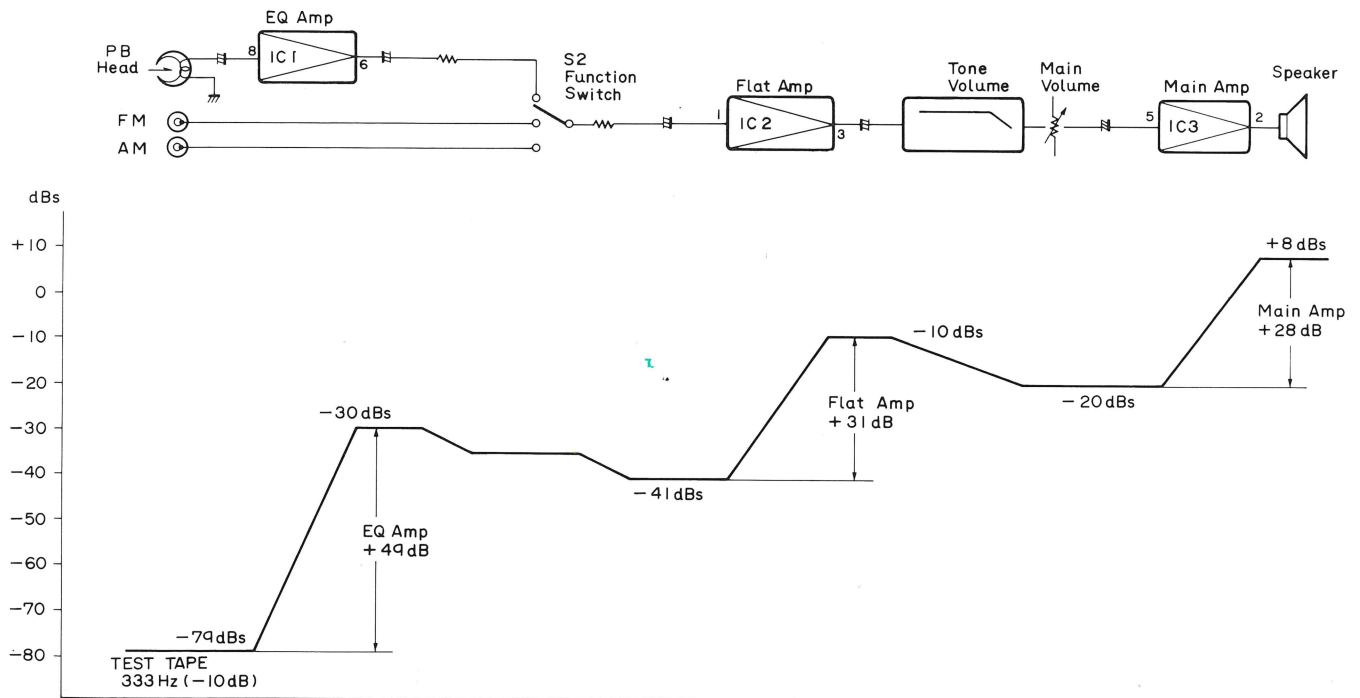


Fig. 16

• **REC Mode (SK-300)**

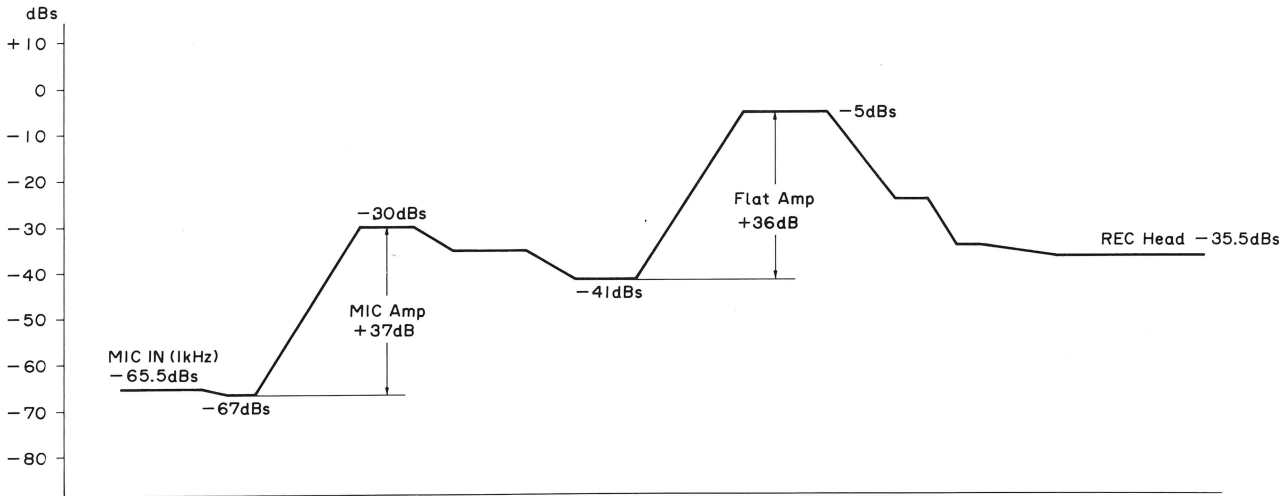
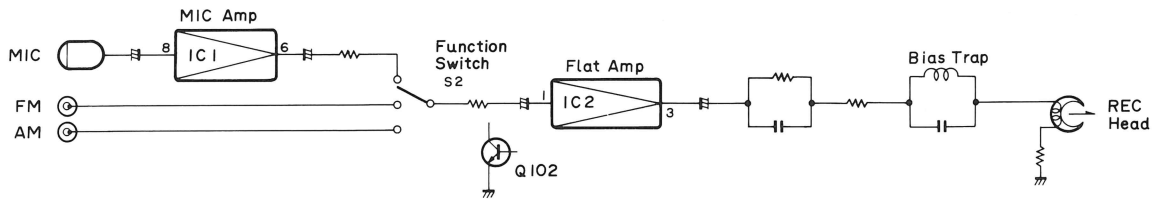


Fig. 17

4. DISASSEMBLY

• **Removing the Rod Antenna**

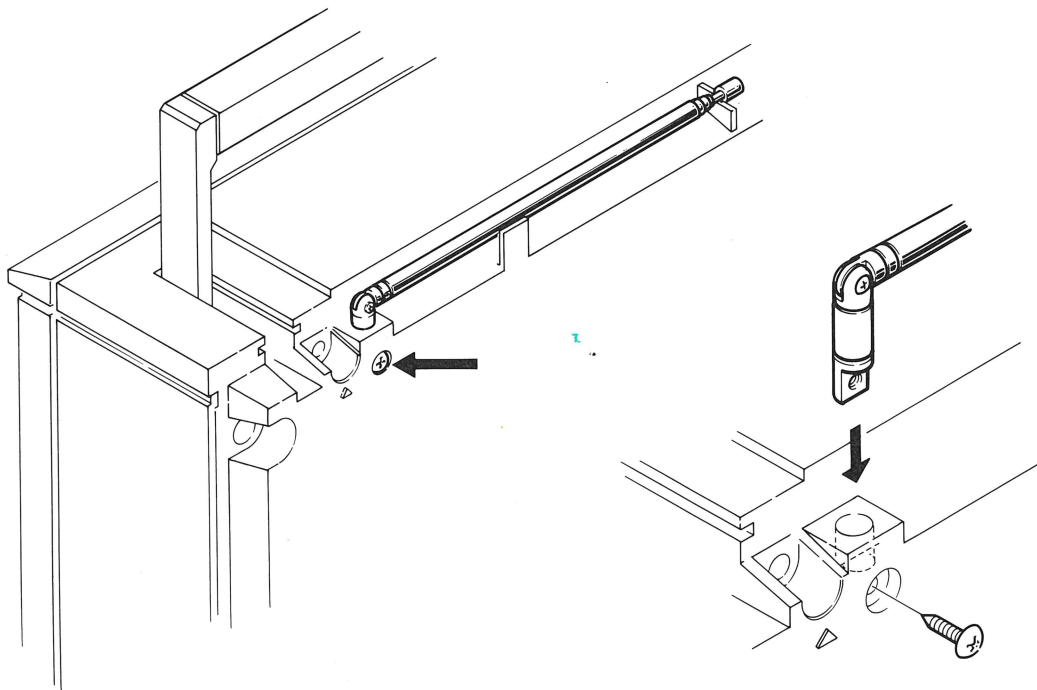


Fig. 18

1. The rod antenna may be removed by taking out the screw indicated by the arrow. (The case need not be removed.)

2. When reinstalling the rod antenna, the flat surface faces toward you.

- **Removing the Front Case**

1. Remove the cassette compartment door and the indicated screw.
2. Remove the battery compartment cover and the seven screws from the back of the unit.

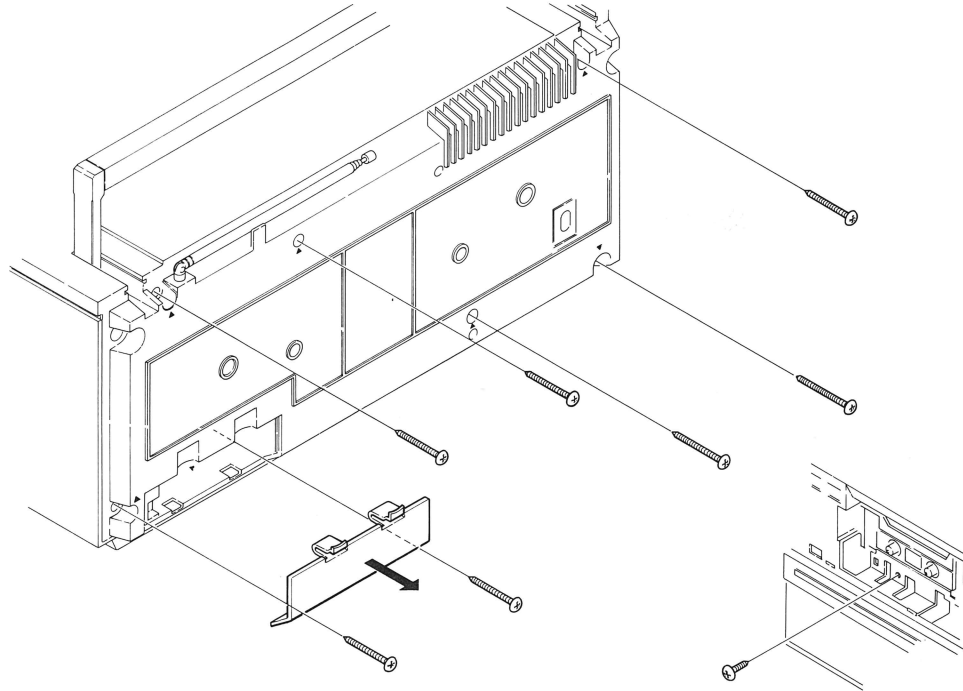


Fig. 19

- **Removing the Tweeters (Speakers)**

The tweeters are attached to the front case with a bond adhesive. Use a screwdriver as shown in the figure to remove these speakers.

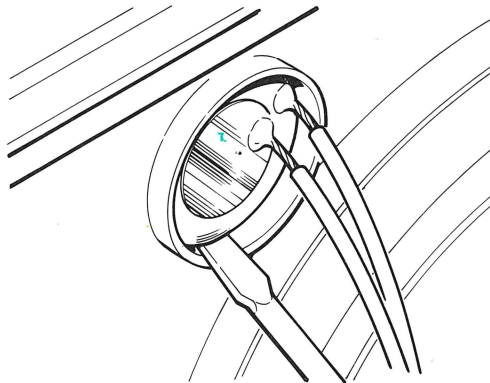


Fig. 20

- **Removing the Speaker Net (SK-350)**

The speaker nets also are attached to the front case with a bond adhesive. Cut part of the net open as shown in the figure and carefully pull away from the front case with a

pair of pliers without scratching or otherwise damaging the speakers and front case.

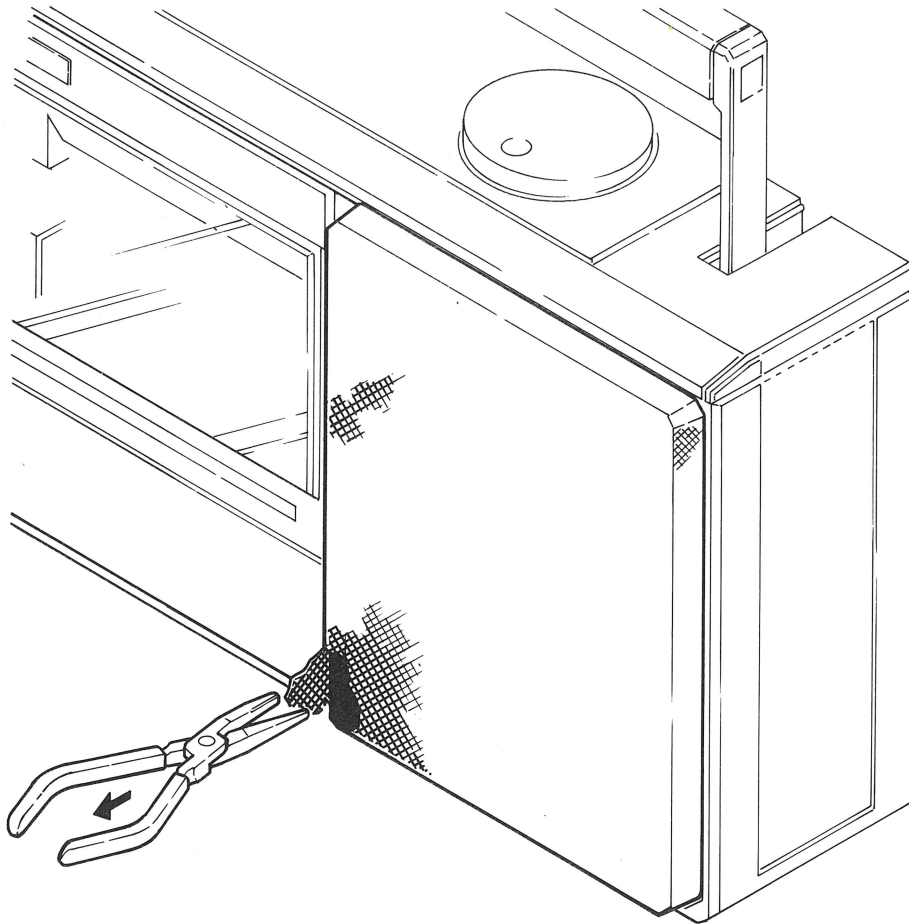


Fig. 21

- **Removing the Mechanism Assembly**

1. Remove the three screws as indicated.
2. Shift the cassette mechanism assembly downward as shown and disengage the button panel at the top. Pushing the rear case upward by hand at this time makes it easier for the button panel to slip out from the rear panel.

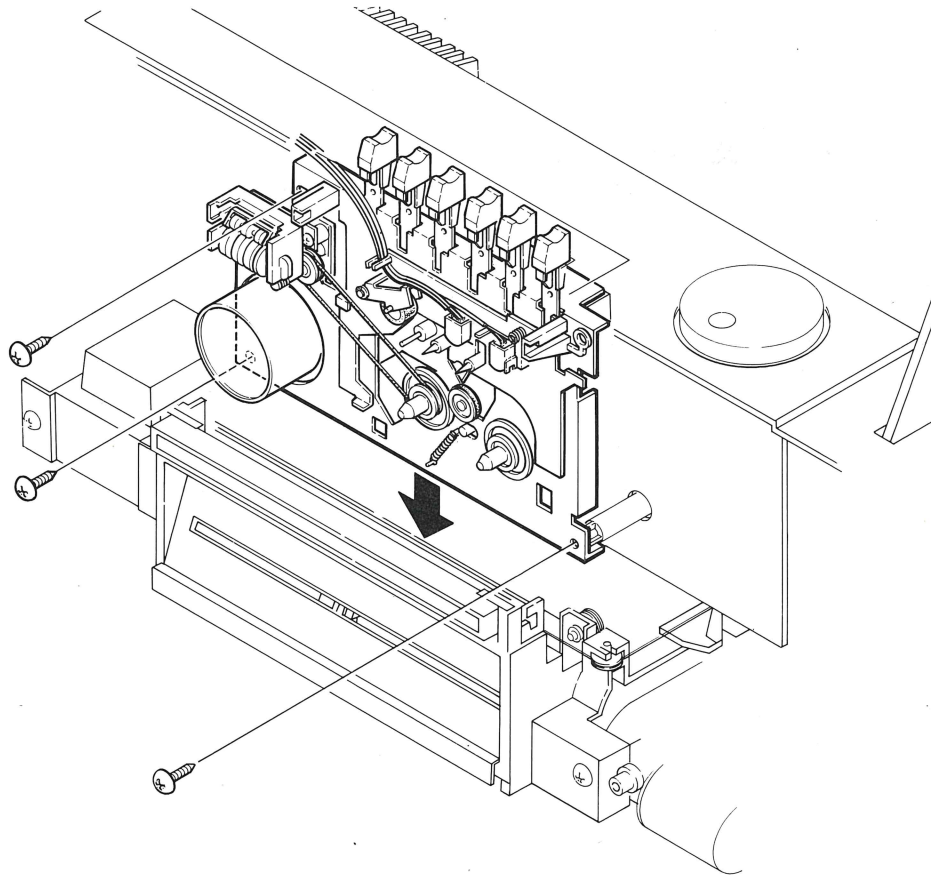


Fig. 22

- **Cassette Mechanism Assembly Belt Replacement**

1. Remove the take-up reel unit.

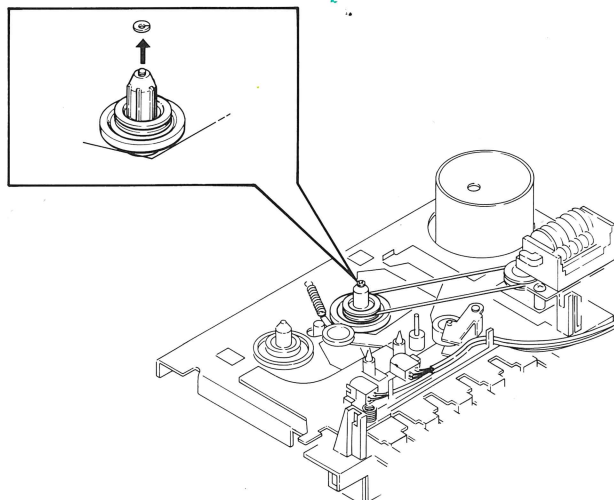


Fig. 23

- 2. Turn the set over as indicated and remove the three screws to remove the plate unit.

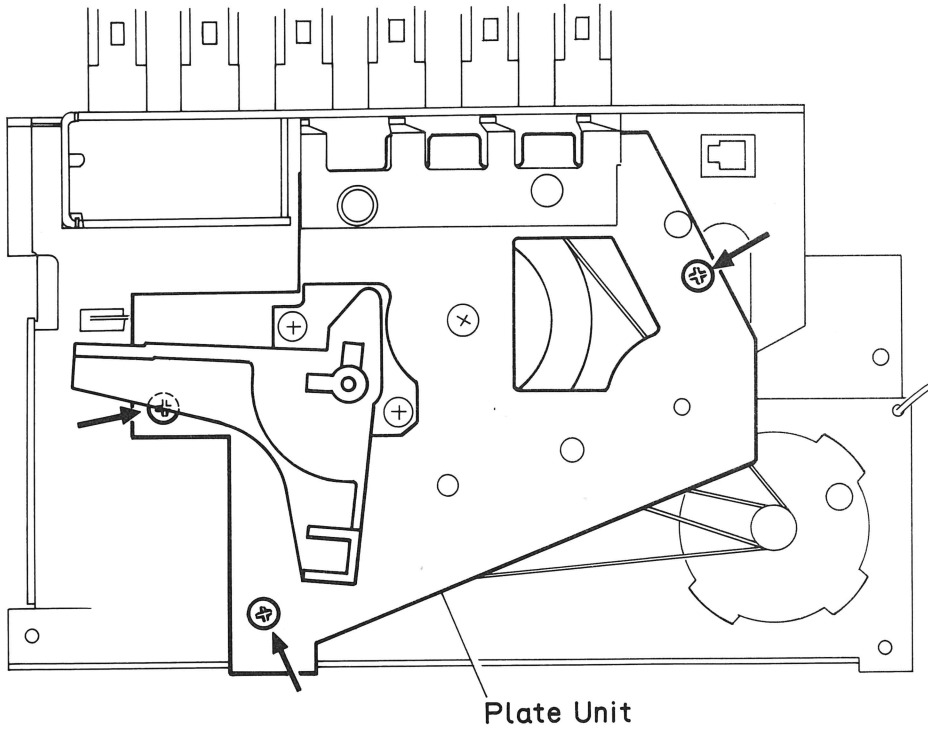


Fig. 24

- 3. Replace the belt.

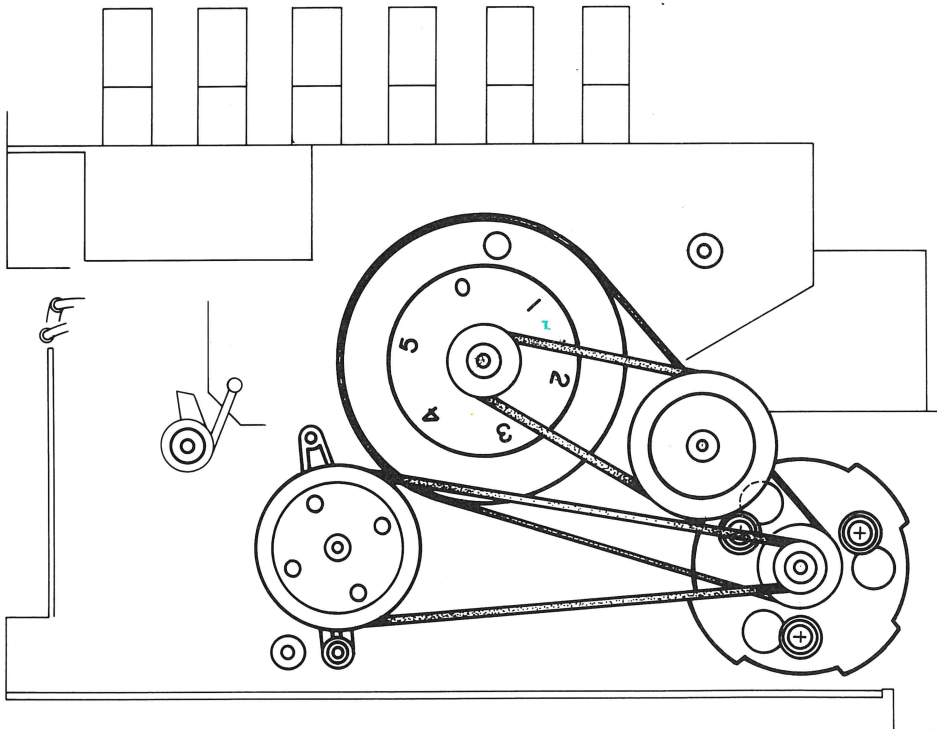


Fig. 25

4. Remount the plate unit.
 Before Remounting the plate unit, however, first check that the stopper pin is in the lever hole. Position the plate unit so that the edges of the plate unit spring fit

into the four lever holes, and then tighten the three screws.
 Check that the plate unit spring is in the proper position as indicated by the figure.

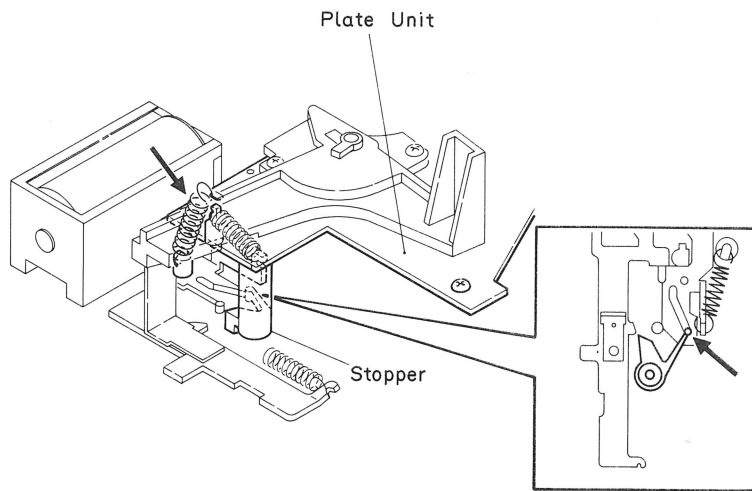


Fig. 26

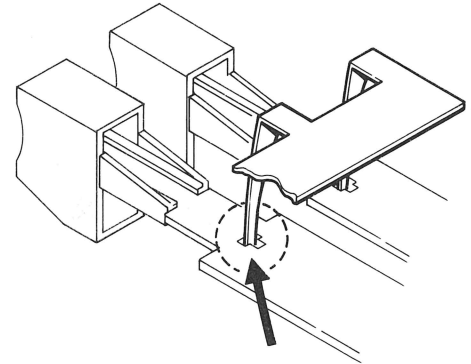


Fig. 27

5. Remount the reel unit into the front of the cassette mechanism (see accompanying figure for the correct position) and finally restring the counter belt.

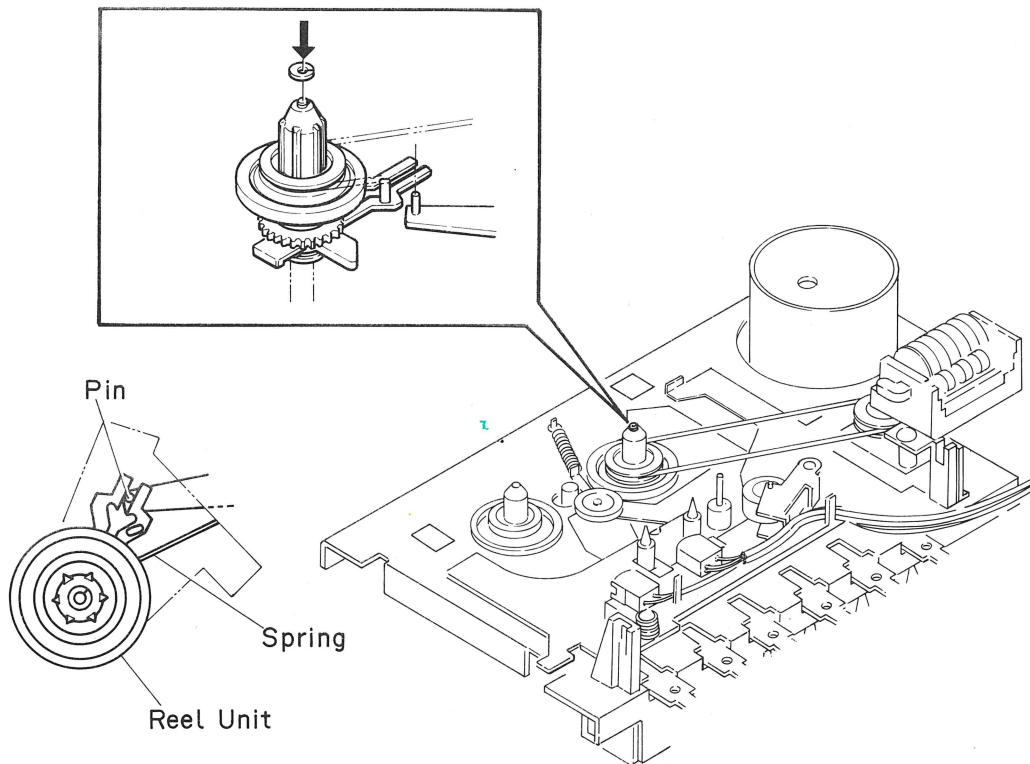


Fig. 28

● **Removing the Main P.C. Board**

After removing the control knobs, buttons and screws indicated in the figure remove the main P.C. board by pulling forward.

SK-350

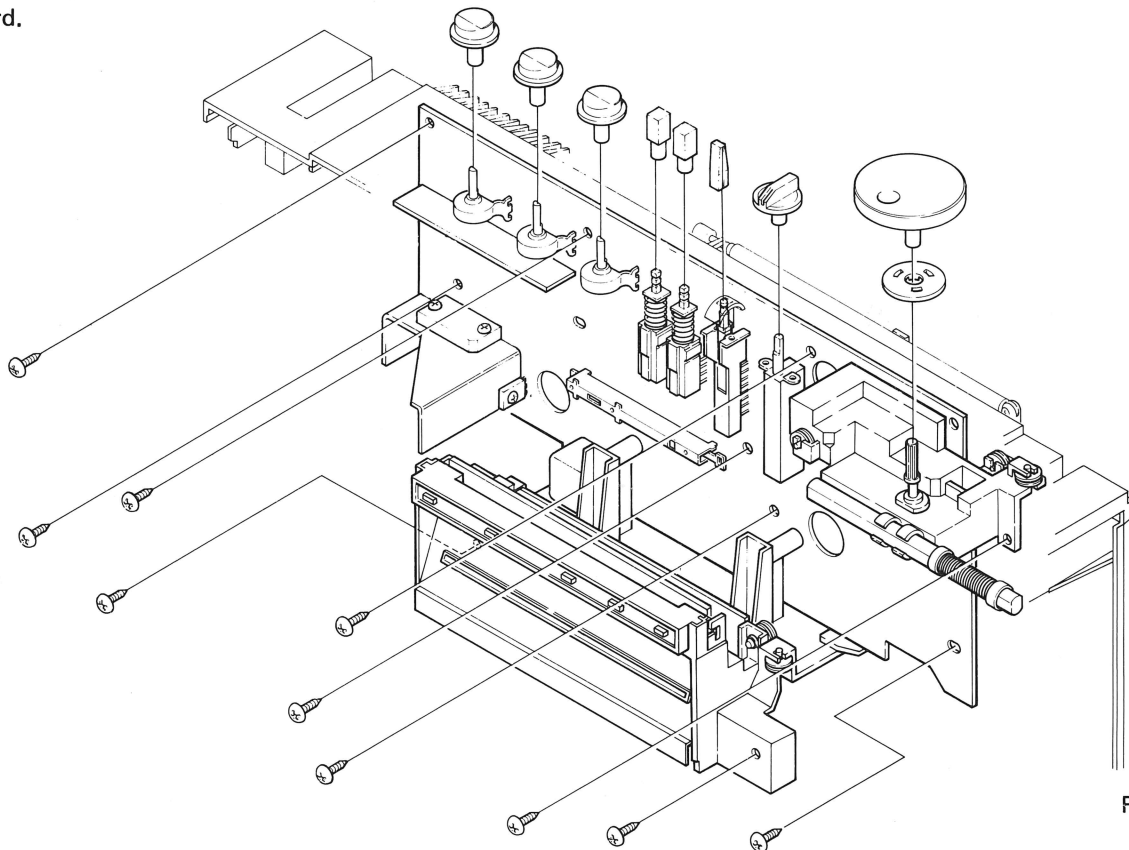


Fig. 29

SK-300

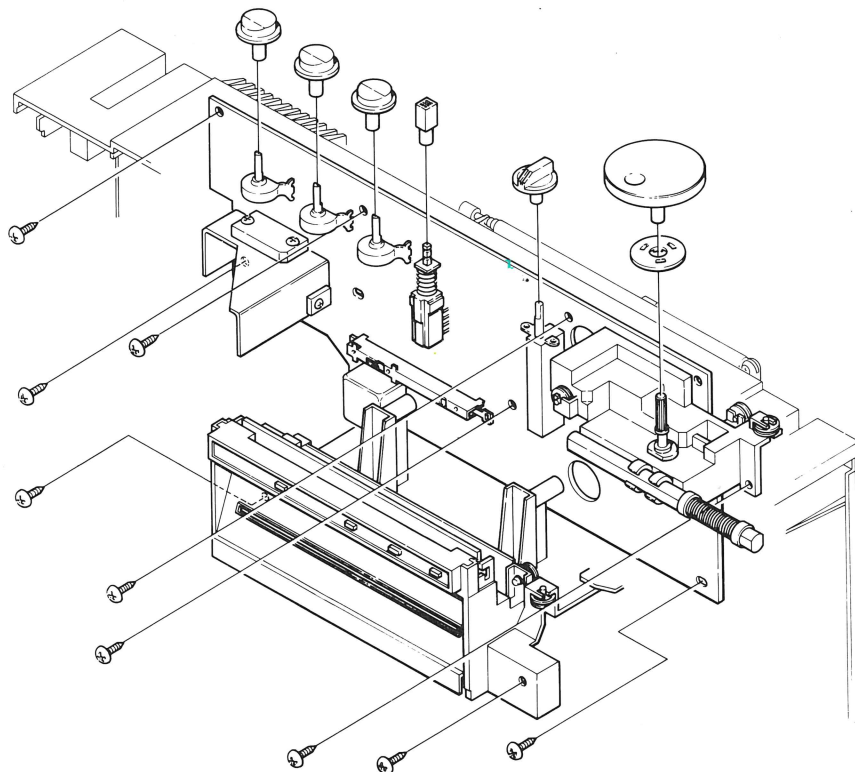


Fig. 30

● **Removing the Handle**

- 1. After removing the front case, pull the handle toward the rear while pushing the left and right holder catches inward.

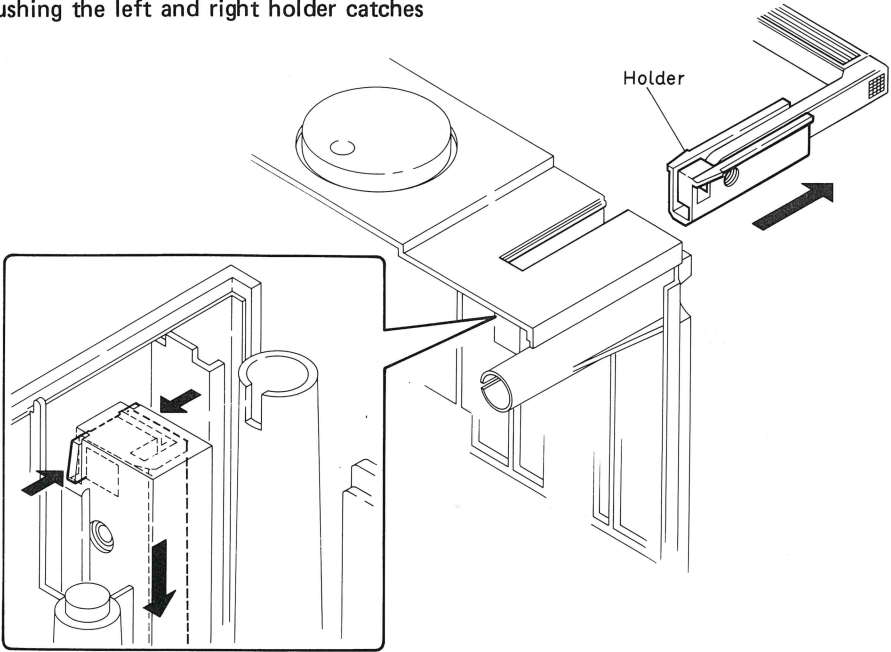


Fig. 31

- 2. When reconnecting the handle, align the holder with the grooves in the rear panel and push in firmly as far as possible.

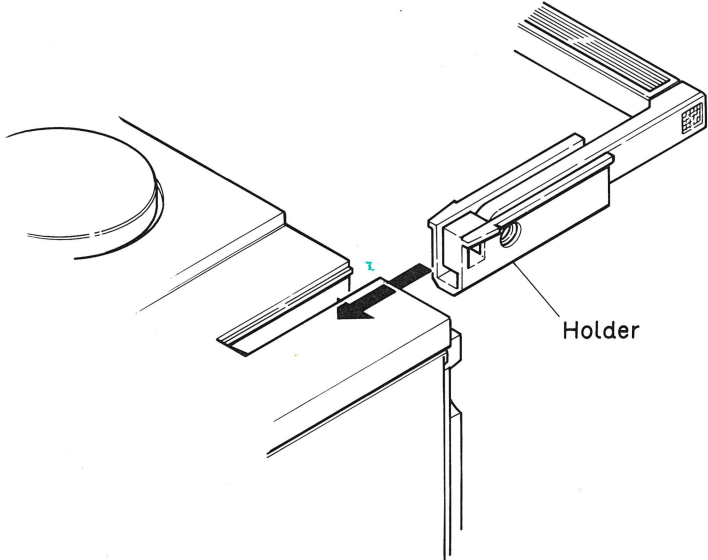
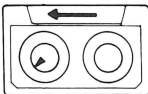
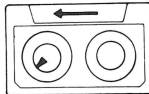
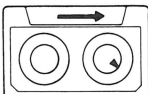
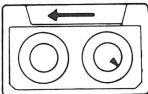
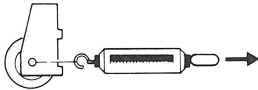


Fig. 32

5. ADJUSTMENT

5.1 CHECK POINTS OF CASSETTE MECHANISM

<p>Confirm the following items when replacing parts of the cassette mechanism.</p>	<ul style="list-style-type: none"> ■ Tape speed diviation: 3,000 ±75 Hz (4.76 cm/s ±2.5%) Using an STD-301A, measure the speed at the start and end of winding and take the maximum value. Measuring time shall be 5 ~ 6 seconds. 	<ul style="list-style-type: none"> ■ Wow and flutter: Less than 0.12% (WRMS) Using an STD-301A, measure the wow and flutter at the start and end of winding and take the maximum value. If values indicated by the pointer vary considerably, adjust to 70% of the minimum and maximum values. Measuring time shall be 5 ~ 6 seconds.
<ul style="list-style-type: none"> ■ Fast forward and rewinding time: Less than 120 seconds <p>Using an C-60, set to fast forward and rewind, and measure the time with a stop watch.</p>	<ul style="list-style-type: none"> ■ Winding torque: 38 ~ 58 g·cm  <p>Using a cassette type torque meter (120 g·cm), measure the minimum value while in the play mode. Measuring time shall be 5 ~ 6 seconds.</p>	<ul style="list-style-type: none"> ■ F.F. torque: 85 ~ 150 g·cm  <p>Using a cassette type torque meter (160 g·cm), measure the value when the tope stops in the F.F. mode.</p>
<ul style="list-style-type: none"> ■ REW torque: 85 ~ 150 g·cm  <p>Using a cassette type torque meter (160 g·cm), measure the value when the tape stops in the REW mode.</p>	<ul style="list-style-type: none"> ■ Back tension torque: 2 ~ 6 g·cm  <p>After setting in the REW mode without loading a cassette tape for 5 minutes, measure the back tension torque in the play mode, using a cassette type torque meter.</p>	<ul style="list-style-type: none"> ■ Pinch roller pressure: 220 ~ 290 g  <p>Measure the pressure with a tension meter (1 kg) at the point where the rotor stops rotating at the center of the pinch roller.</p>
<ul style="list-style-type: none"> ■ Lever operating force: F.F, REW, PAUSE, EJECTLess than 1.1 kg PLAY.....Less than 2.2 kg REC.....Less than 2.8 kg STOP, MS F.F, MS REWLes than 2 kg 	<ul style="list-style-type: none"> ■ Clearance between flywheel and flywheel bracket: 0.05 ~ 0.25 mm 	

5.2 HEAD AZIMUTH ADJUSTMENT

● To Adjust

1. Remove the cassette holder door.
2. Playback the STD-341A (10 kHz, -20 dB) test tape.
3. Turn head azimuth alignment screw until mV meter pointer indicates maximum reading for both left and

right channels.

4. Lock screw with adhesive (GYL-001) after adjustment is made.

5.3 PLAYBACK LEVEL ADJUSTMENT (SK-350)

● Connection Diagram

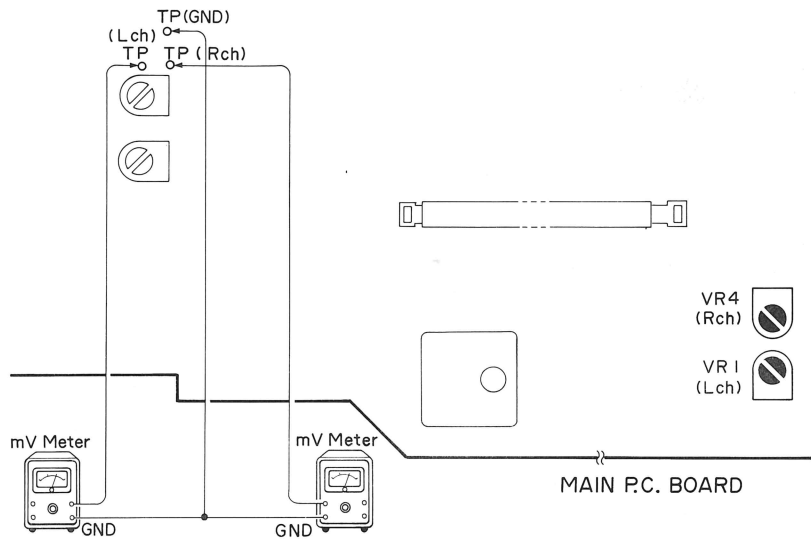


Fig. 33

● To Adjust

1. Playback the CT-150 (400 Hz, 200n wb/m) test tape, and adjust VR1 (L ch.) and VR4 (R ch.) so that the millivoltmeters read 580 mV ±1 dB.

5.4 BIAS FREQUENCY ADJUSTMENT (SK-350)

● Connection Diagram

Switch positions

- BFC 2
- FUNCTION SWITCH..... FM/AUX
- TAPE SELECTOR SWITCH METAL

Note: Insert RCA pin into AUX terminal

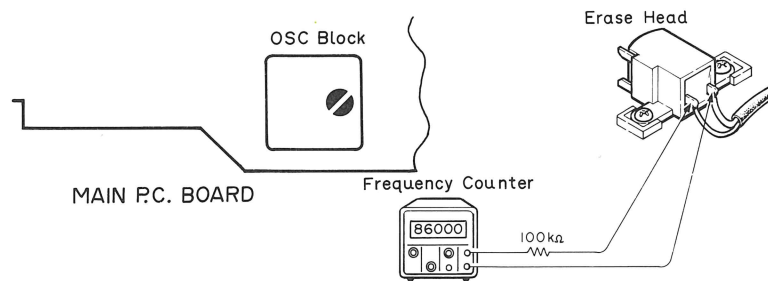


Fig. 34

● **To Adjust**

1. Put the unit into the record mode.
2. Adjust BIAS OSC so that frequency counter indicates 86 kHz \pm 1 kHz.

5.5 BIAS ADJUSTMENT (SK-350)

● **Connection Diagram**

Switch positions

- BFC2
- FUNCTION SWITCH. FM/AUX
- TAPE SELECTOR SWITCH METAL

Note: Insert RCA pin into AUX terminal

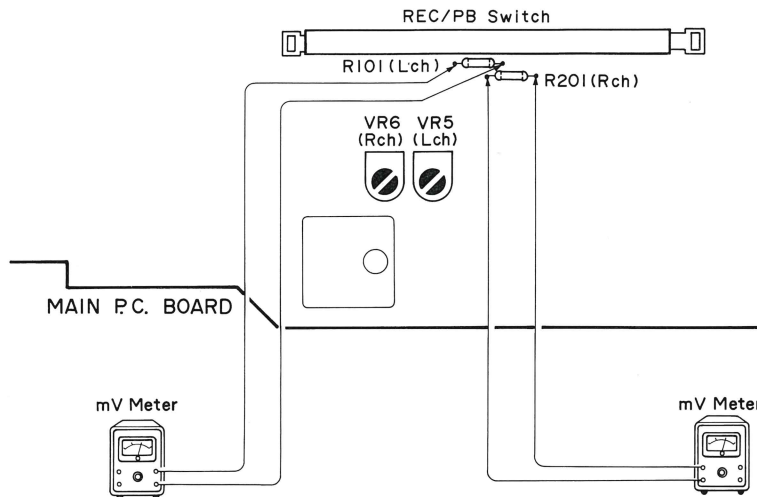


Fig. 35

● **To Adjust**

1. Put the unit into the record mode.
2. Adjust VR5 (L ch.) and VR 6 (R ch.) so that the millivoltmeters read 6.4 mV \pm 0.2mV.

5.6 RECORDING AND PLAYBACK LEVEL ADJUSTMENT (SK-350)

• Connection Diagram

Switch positions

BFC 2
 TAPE SELECTOR SWITCH METAL

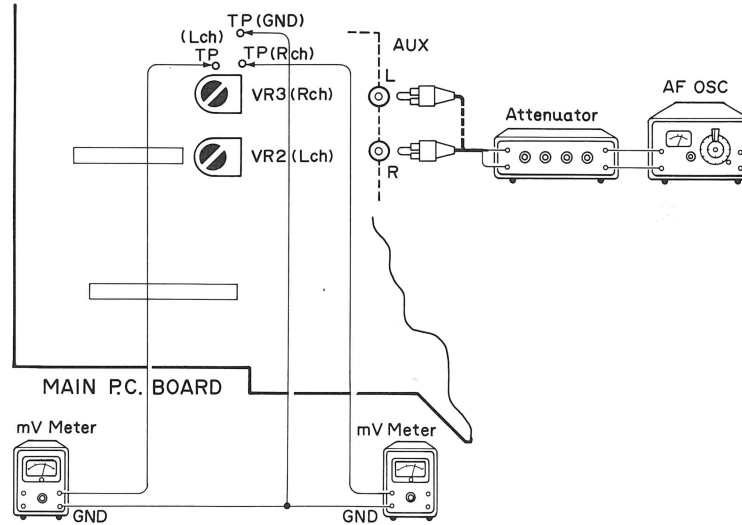


Fig. 36

• To Adjust

1. Turn the FUNCTION switch to the FM/AUX position, and apply a 400Hz signal to the AUX terminals.
2. Adjust the level of this 400Hz input signal to obtain a reading of 580mV in the mV meter.
3. Record the input signal on a metal tape.
4. Then turn the FUNCTION switch to the TAPE/OFF position, and play the recorded tape.
5. Adjust VR2 (left ch.) and VR3 (right ch.) to mV meter reading of $580\text{mV} \pm 1\text{dB}$.

5.7 BIAS FREQUENCY ADJUSTMENT (SK-300)

• Connection Diagram

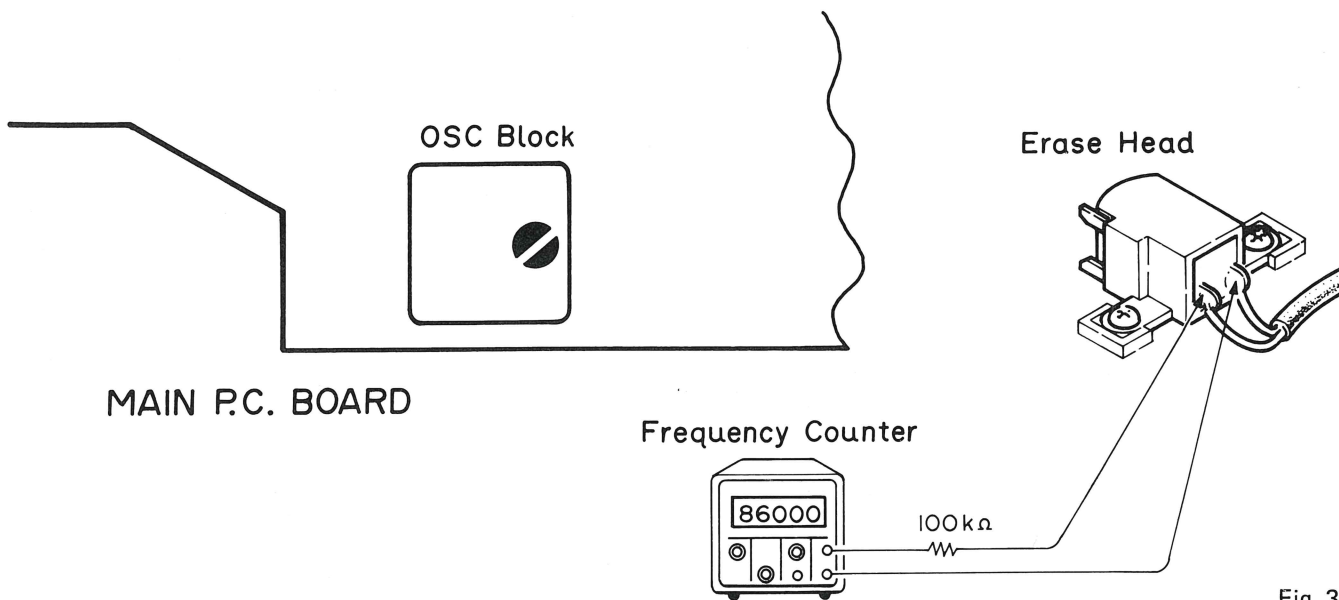


Fig. 37

• To Adjust

1. Put the unit into the record mode.
2. Adjust BIAS OSC so that frequency counter indicates 86 kHz \pm 1 kHz.

5.8 BIAS CURRENT ADJUSTMENT (SK-300)

• Connection Diagram

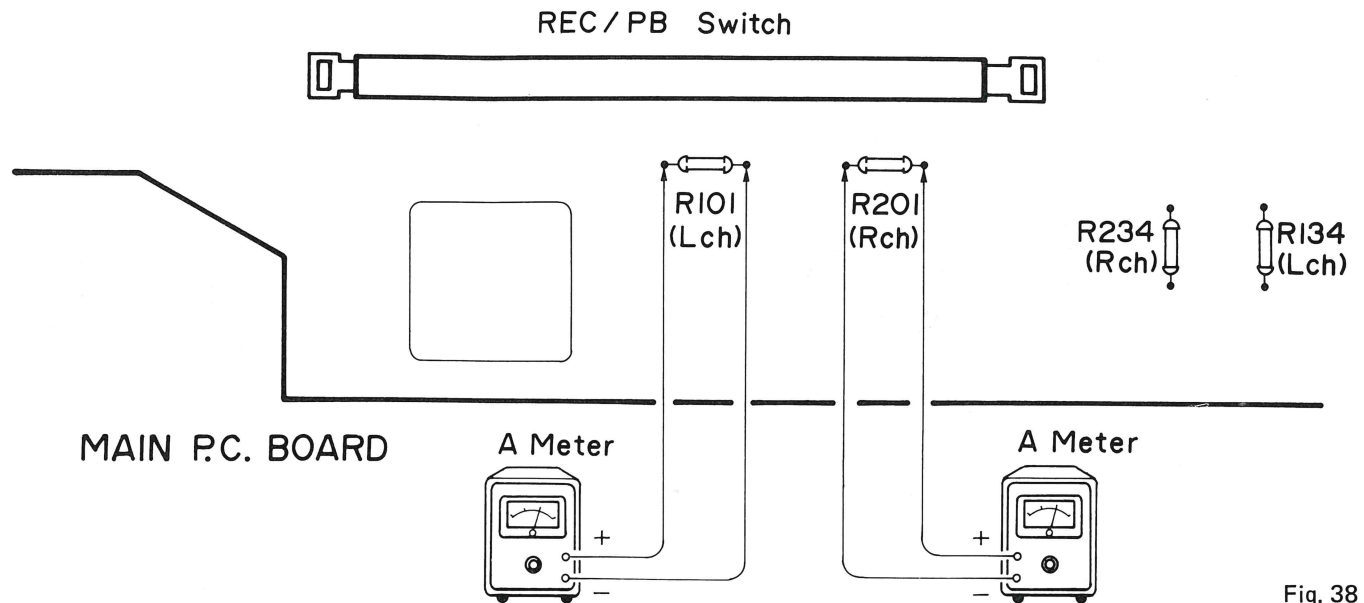


Fig. 38

• To Adjust

1. Check that the A meter shows in input current range of $340\mu\text{A} \pm 70\mu\text{A}$.
2. If the current exceeds this range, reduce it by removing R134 (left ch.) and R234 (right ch.).

5.9 AM IF ADJUSTMENT

• Connection Diagram

IF Generator Scope

Sweep center frequency455 kHz

Input gain 0.3V p-p/cm

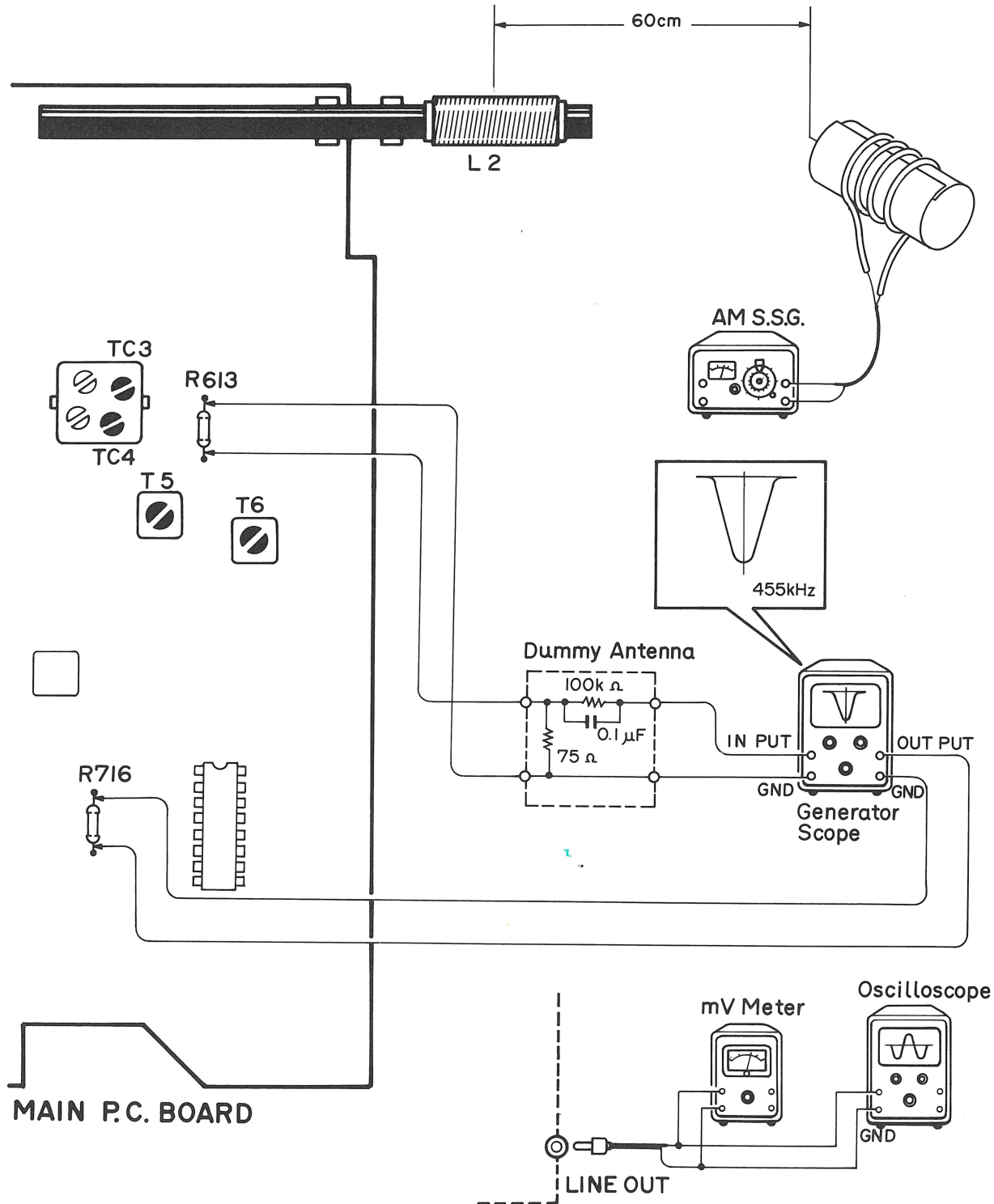


Fig. 39

- **To Adjust**

1. Apply minimum output signal required to check generator scope U curve and adjust T6 so that curve amplitude is at maximum point and there is optimum symmetry.

5.10 AM TRACKING ADJUSTMENT

- **Connection Diagram (Shown in Fig. 39)**

- **Preparation**

Emit radio waves from an AM SSG using coil antenna as shown in illustration.

- **To Adjust**

Frequency of AM SSG	Variable Capacitor Position	Adjusting Point	Remarks
1. 510 kHz (400 Hz, 30% modulation) output level 60 dB/m.	Maximum (turn the tuning knob counterclockwise until low end.)	T5	510 kHz can be received.
2. 1,670 kHz (400 Hz, 30% modulation) output level 60 dB/m.	Minimum (turn the tuning knob clockwise until high end.)	TC4	1,670 kHz can be received.
3. Repeat (1) and (2) alternately and adjust so that 510 ~ 1,670 kHz are covered.			
4. 600 kHz (400 Hz, 30% modulation) output level 40 ~ 50 dB/m.	Tuned to 600 kHz.	L2 (Coil of bar antenna)	Maximum output.
5. 1,400 kHz (400 Hz, 30% modulation) output level 40 ~ 50 dB/m.	Tuned to 1,400 kHz.	TC3	Maximum output.
6. Repeat (4) and (5) alternately and confirm that tuning pointer indication is correct.			

Note: After adjusting L2 (Coil of bar antenna), melt electro wax with soldering iron and fix it in position.

5.11 FM IF ADJUSTMENT

• Connection Diagram

Generator Scope

- Sweep center frequency 10.7 MHz
- Input gain 0.3V p-p/cm
- Marker OFF or minimum

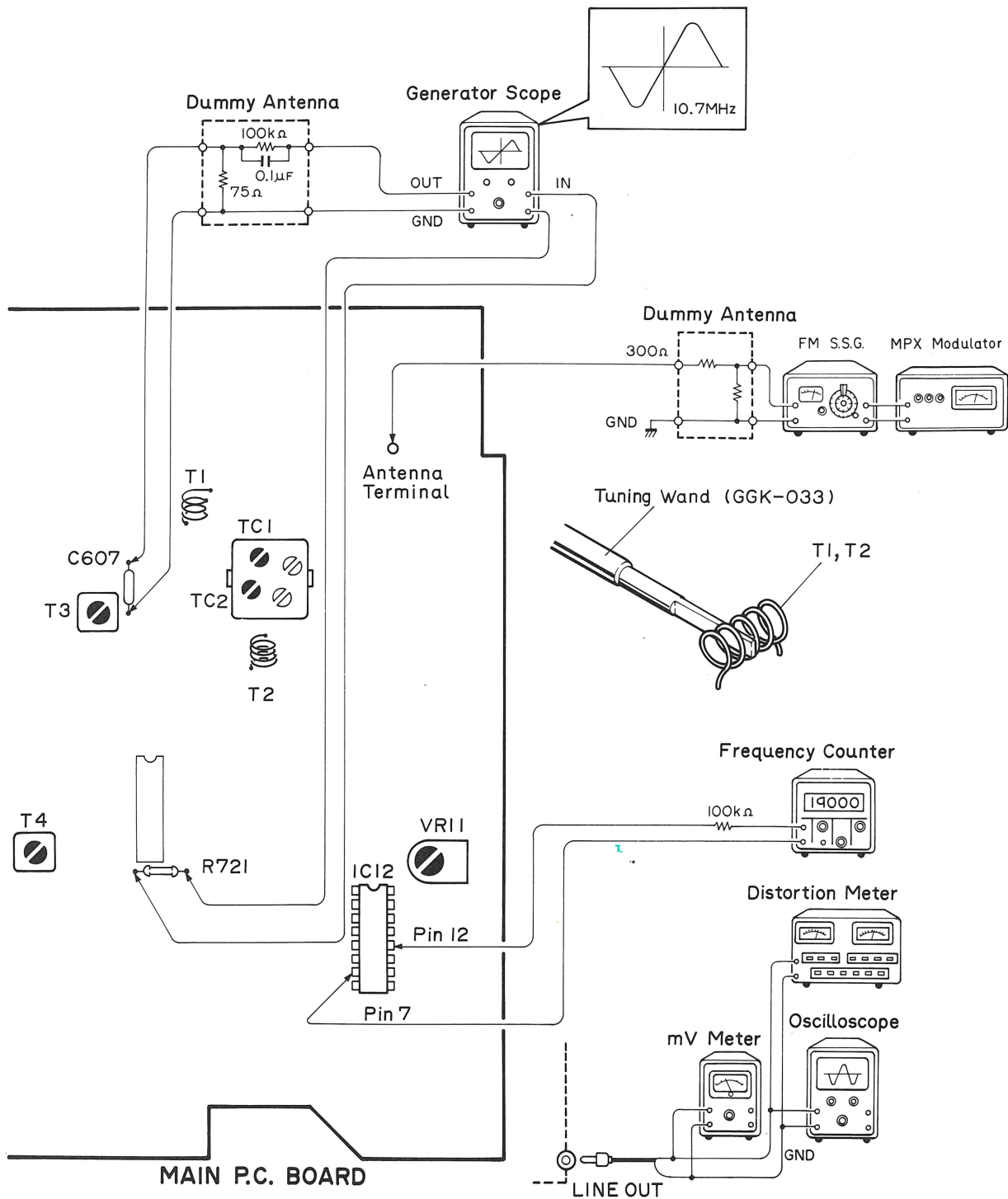


Fig. 40

● **To Adjust**

1. Apply minimum output signal required to check generator scope S curve and adjust T3 and T4 so that S curve wave is symmetrical at both top and bottom and so that the wave has optimum linearity.

5.12 FM TRACKING ADJUSTMENT

● **Connection Diagram (Shown in Fig. 40)**

● **To Adjust**

Frequency of FM SSG	Variable Capacitor Position	Adjusting Point	Remarks
1. 87 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 60 dB (μ V).	Maximum (turn the tuning knob counterclockwise until low end.)	T2	87 MHz can be received.
2. 109.5 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 60 dB (μ V).	Minimum (turn the tuning knob clockwise until high end.)	TC2	109.5 MHz can be received.
3. Repeat (1) and (2) alternately and adjust so that 87 ~ 109.5 MHz are received.			
4. 90 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 30 dB (μ V).	Tuned to 90 MHz.	T1	Maximum output
5. 106 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 30 dB (μ V).	Tuned to 106 MHz.	TC1	Maximum output
6. Repeat (4) and (5) alternately and adjust until tracking error disappears.			

5.13 FM MPX ADJUSTMENT

● **Connection Diagram (Shwon in Fig. 40)**

Stereo Modulator

Modulation frequency 1 kHz
 Modulation ratio 100%
 Pilot signal 7.5 kHz deviation
 Main signal 67.5 kHz deviation

● **To Adjust**

1. Using the FM SSG, apply a 98 MHz, 10 dB signal to the antenna terminals and tune to 98 MHz.
2. Set output of the FM SSG to 60 dB and turn modulation OFF.
3. Adjust VR11 until a reading of 19kHz \pm 20Hz is obtained on the frequency counter.

- **To Adjust**

1. Apply minimum output signal required to check generator scope S curve and adjust T3 and T4 so that S curve wave is symmetrical at both top and bottom and so that the wave has optimum linearity.

5.12 FM TRACKING ADJUSTMENT

- **Connection Diagram (Shown in Fig. 40)**

- **To Adjust**

Frequency of FM SSG	Variable Capacitor Position	Adjusting Point	Remarks
1. 87 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 60 dB (μ V).	Maximum (turn the tuning knob counterclockwise until low end.)	T2	87 MHz can be received.
2. 109.5 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 60 dB (μ V).	Minimum (turn the tuning knob clockwise until high end.)	TC2	109.5 MHz can be received.
3. Repeat (1) and (2) alternately and adjust so that 87 ~ 109.5 MHz are received.			
4. 90 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 30 dB (μ V).	Tuned to 90 MHz.	T1	Maximum output
5. 106 MHz (400 Hz, 75 kHz deviation) output level 20 ~ 30 dB (μ V).	Tuned to 106 MHz.	TC1	Maximum output
6. Repeat (4) and (5) alternately and adjust until tracking error disappears.			

5.13 FM MPX ADJUSTMENT

- **Connection Diagram (Shwon in Fig. 40)**

Stereo Modulator

Modulation frequency 1 kHz
 Modulation ratio 100%
 Pilot signal 7.5 kHz deviation
 Main signal 67.5 kHz deviation

- **To Adjust**

1. Using the FM SSG, apply a 98 MHz, 10 dB signal to the antenna terminals and tune to 98 MHz.
2. Set output of the FM SSG to 60 dB and turn modulation OFF.
3. Adjust VR11 until a reading of 19kHz \pm 20Hz is obtained on the frequency counter.

6. DIAL STRINGING

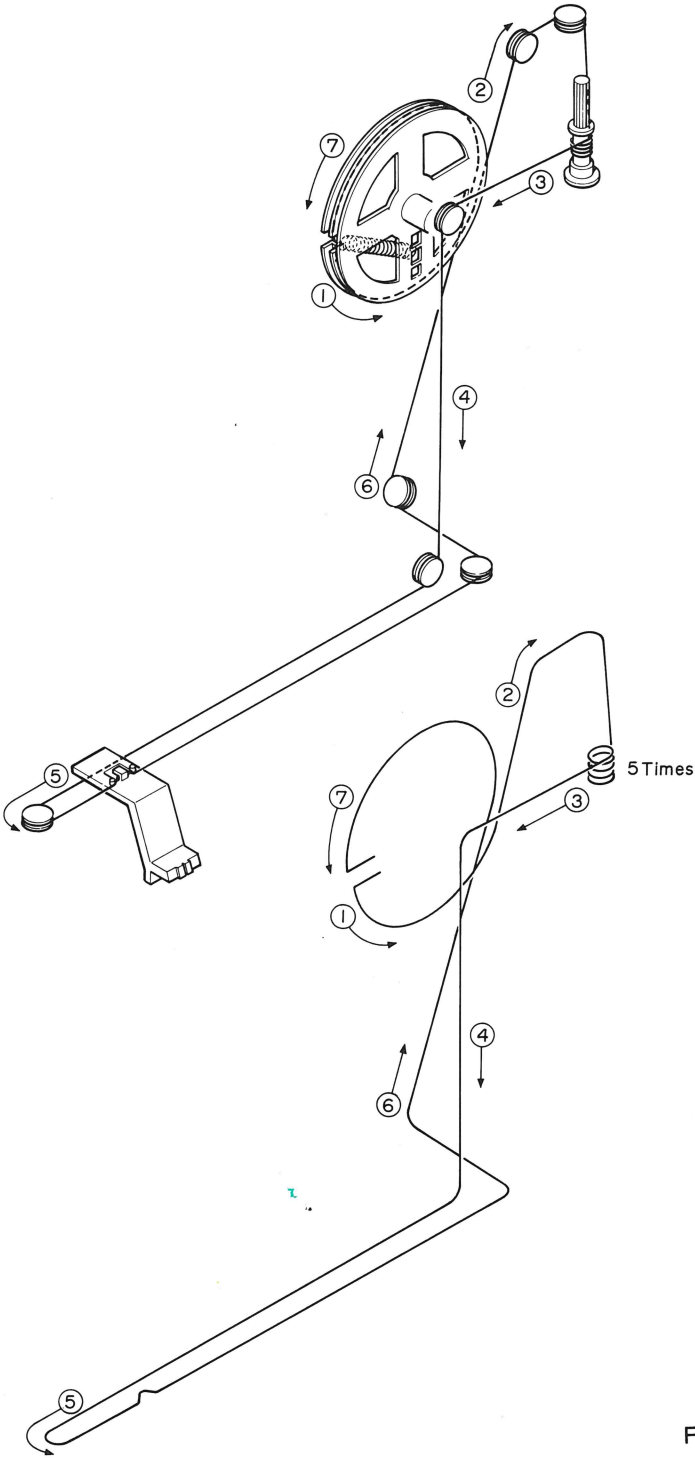
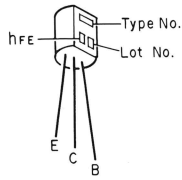


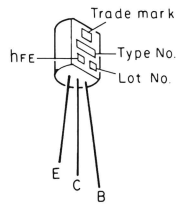
Fig. 41

• IC's and Transistors

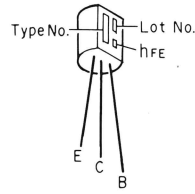
2SC1740LN



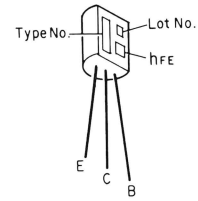
2SC2634NC



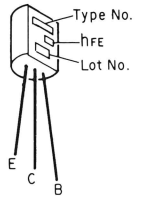
2SC945
2SC1674
2SC1675
2SC1815



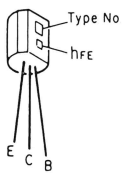
2SC380TM
2SC732TM
2SC2655



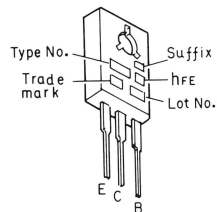
2SD468



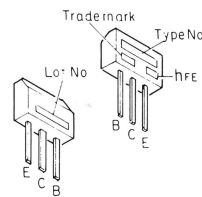
JC501



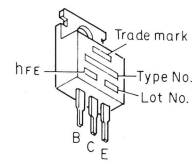
2SC2209



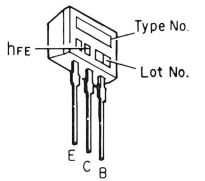
2SC460



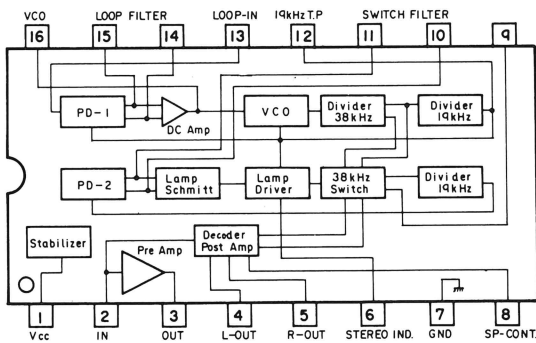
2SA473



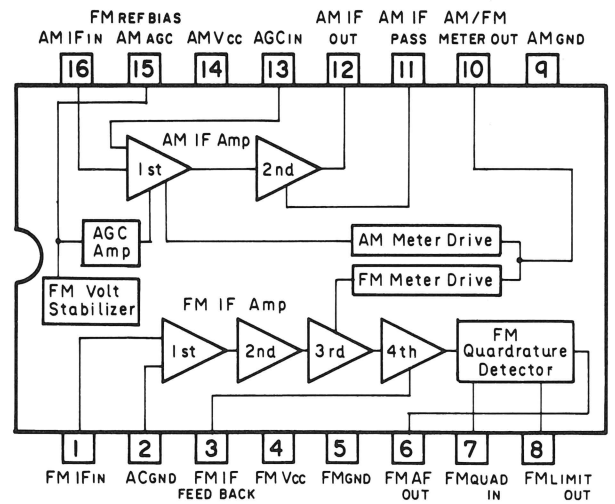
2SC2785



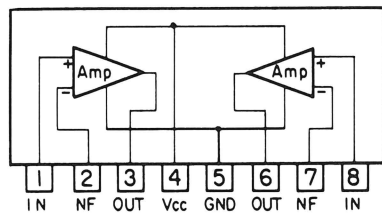
KB4424B



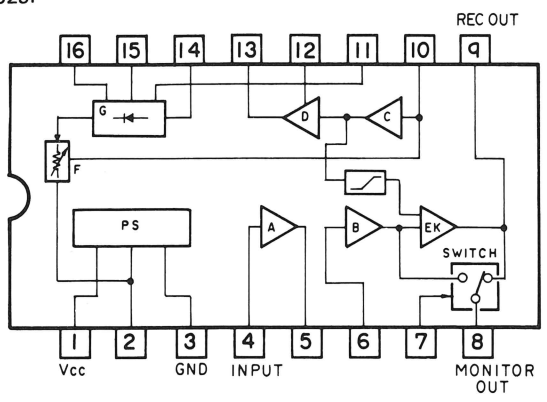
KB4419C



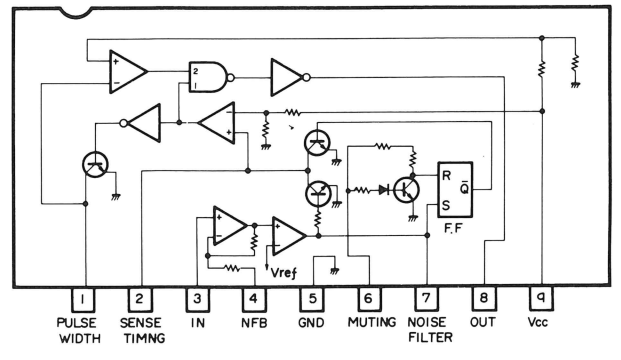
M51521L



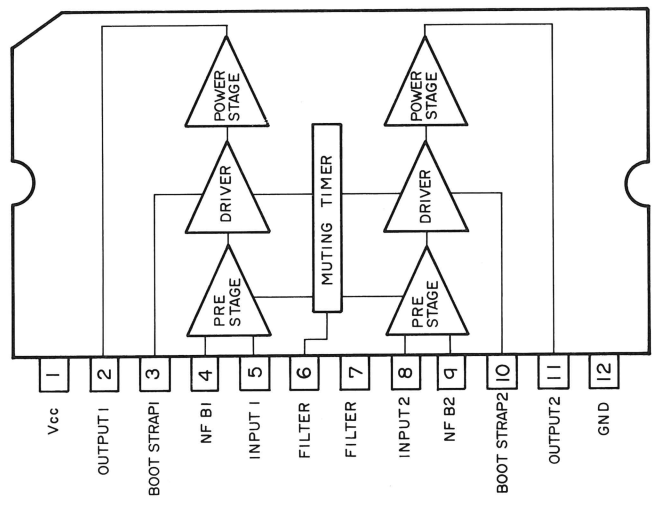
TA7629P



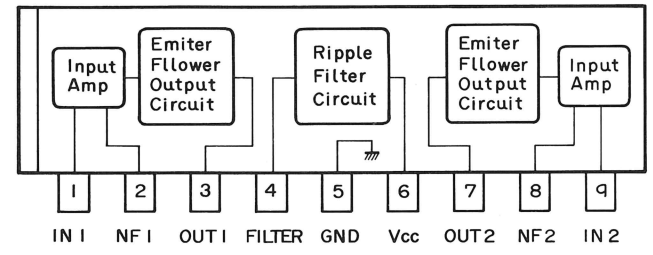
BA338



BA5402A



AN7310



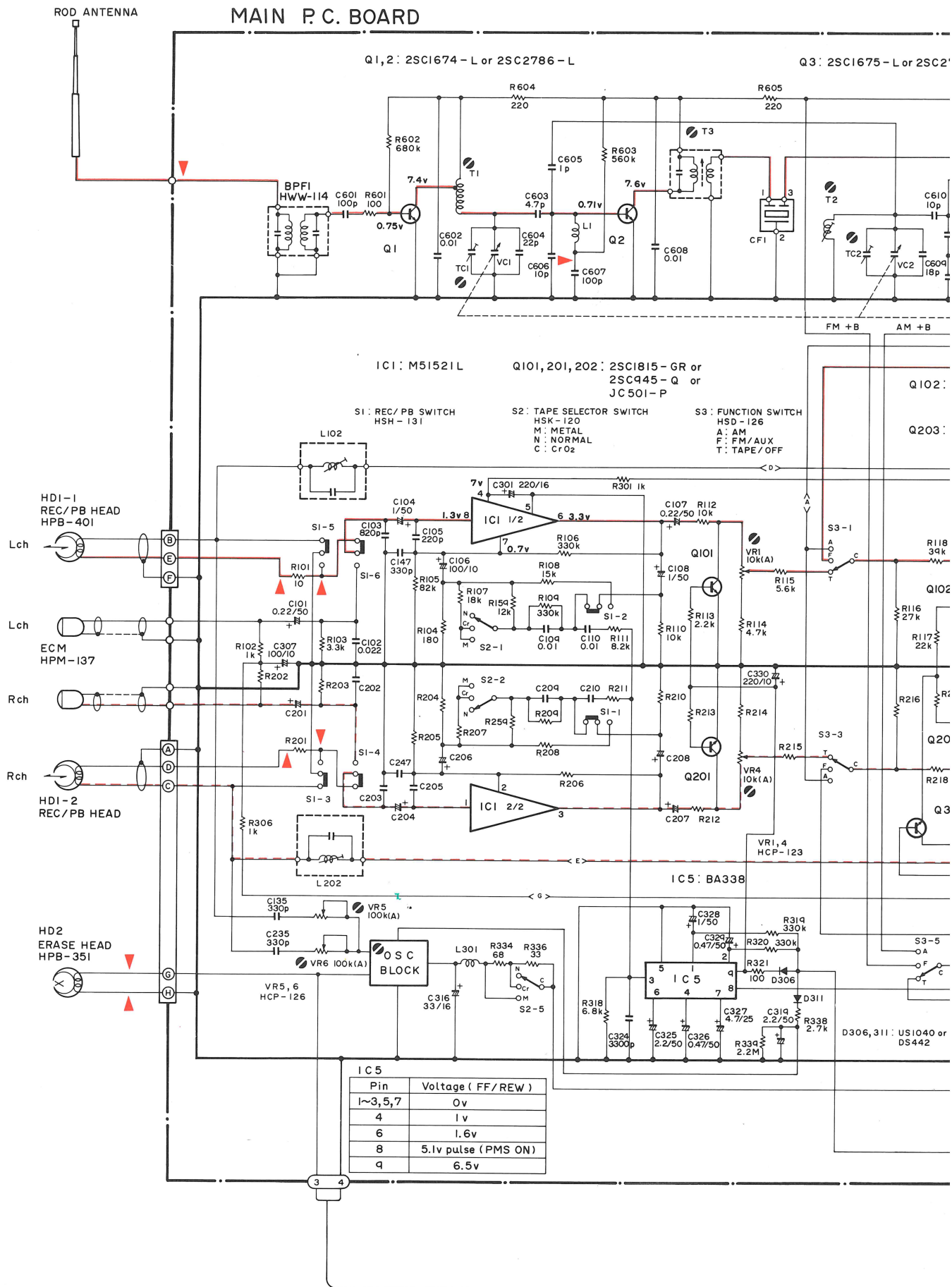
7. SCHEMATIC CIRCUIT DIAGRAM (SK-350)

A

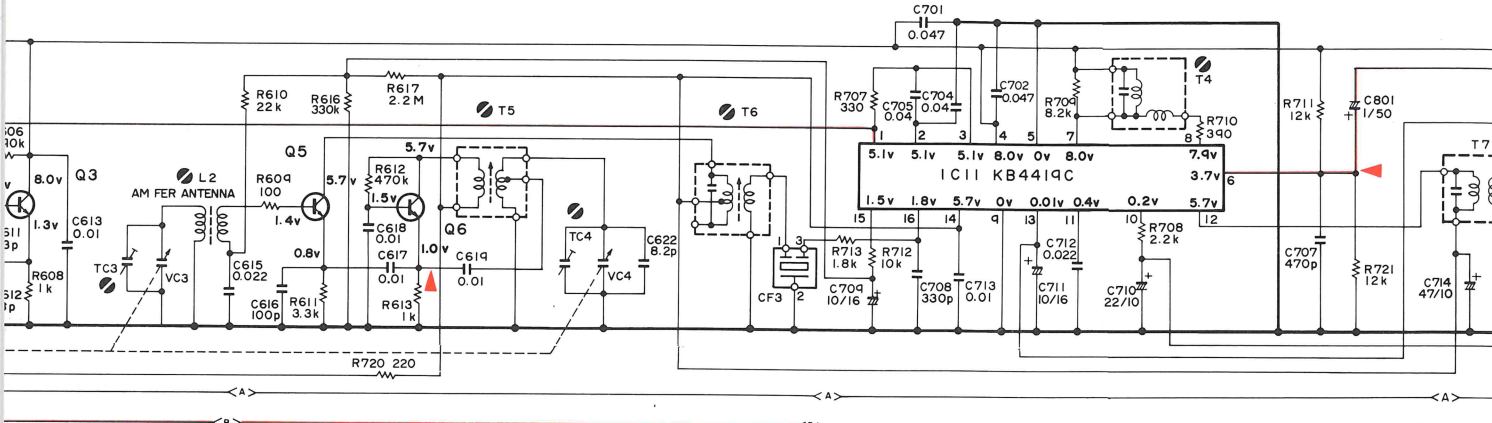
B

C

D

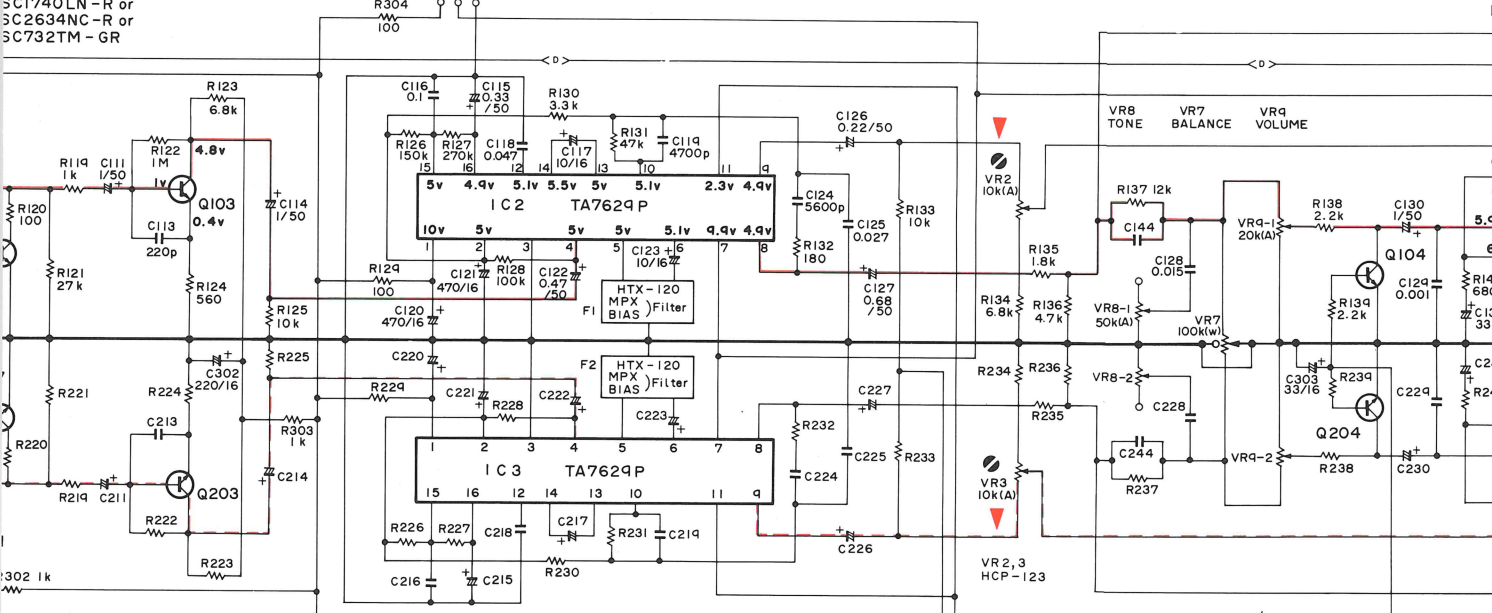


7-L Q5: 2SC460-B Q6: 2SC380TM-0 or 2SC460-B

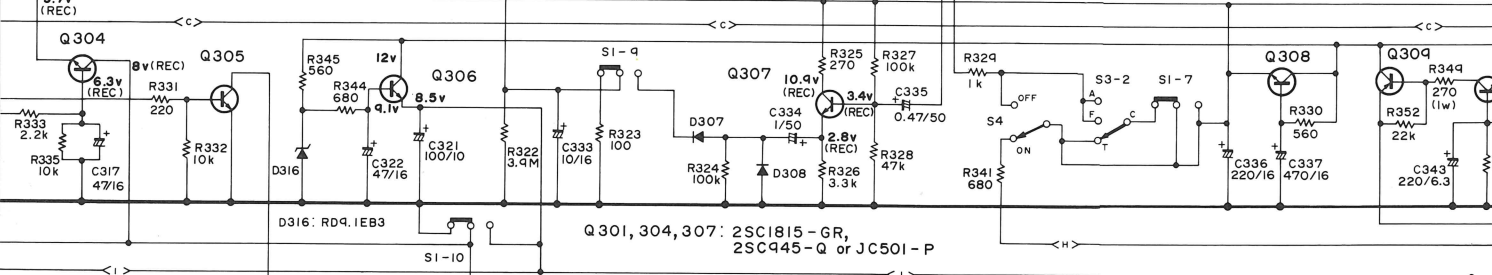


SC1815-GR or SC1740LN-R or C501-P Q103: 2SC1740LN-R or 2SC2634NC-R or 2SC732TM-GR

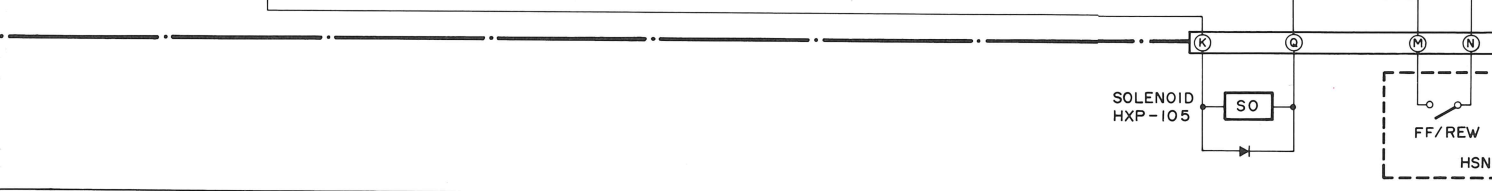
Q104, 105, 204: 2SC1815-GR or 205, 310 2SC945-Q or C501-P



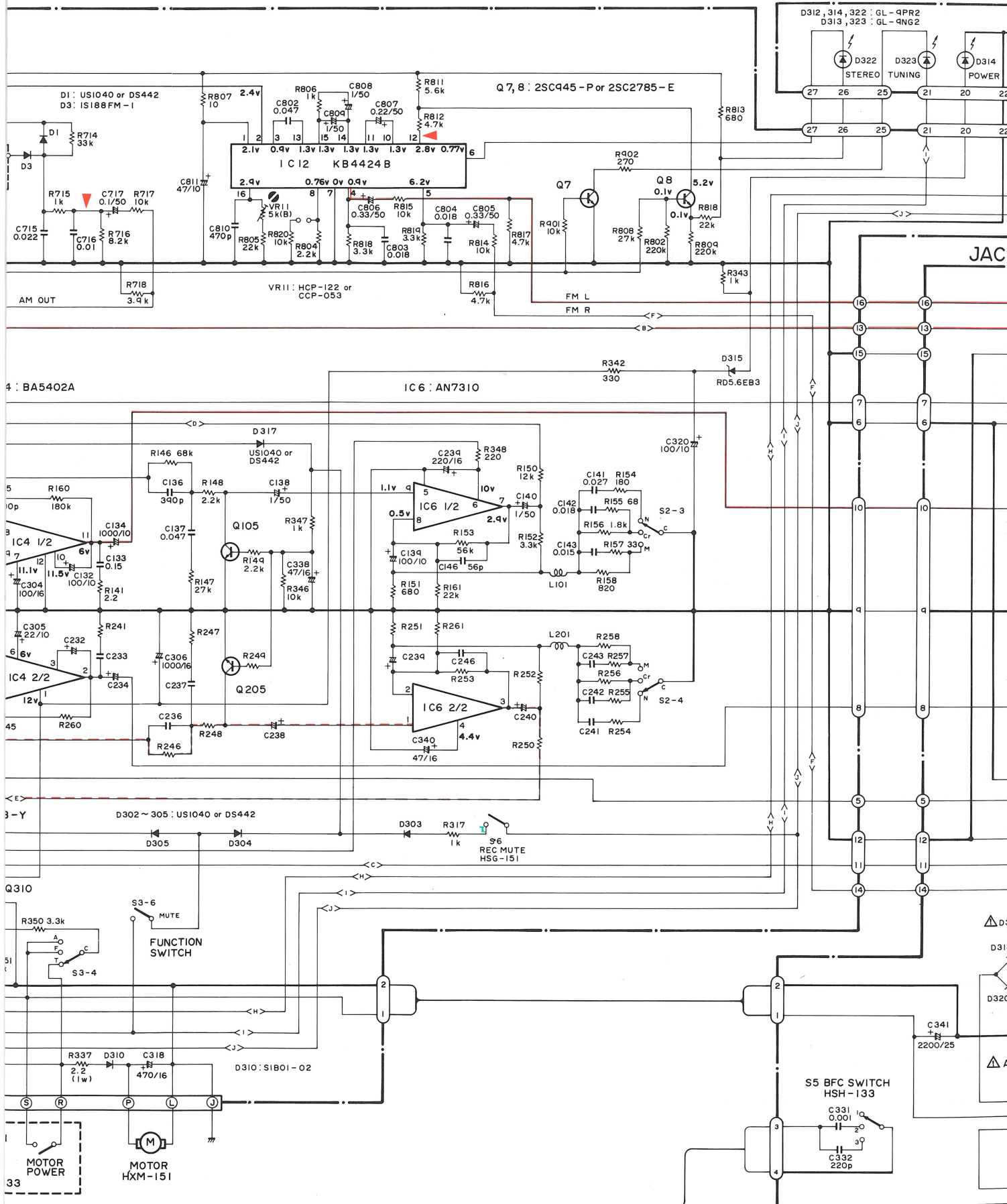
D307, 308: US1040 or DS442 S4: DOLBY NR SWITCH HSG-152 Q308: 2SD468-C Q309: 2SA4

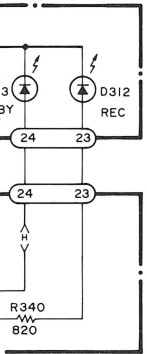


Q305: 2SC2655-Y Q306: 2SC2209-Q



LED P.C. BOARD





- SWITCHES :
- ⊙ MAIN P.C. BOARD
 - S1 : REC /PB SWITCH REC-PB
 - S2 : TAPE SELECTOR METAL-CrO₂-NORM SWITCH
 - S3 : FUNCTION SWITCH AM-FM/AUX-TAPE/OFF
 - S4 : DOLBY NR SWITCH ON-OFF
 - S6 : REC MUTE SWITCH ON-OFF
 - ⊙ JACK P.C. BOARD
 - S5 : BFC SWITCH 1-2-3
 - ⊙ MISCELLANEOUS
 - S1 : FF/REW SWITCH ON-OFF
 - MOTOR POWER ON-OFF SWITCH
 - S2 : VOLTAGE SELECTOR 240v-220v-120v SWITCH

The underlined indicates the switch position.

P.C. BOARD

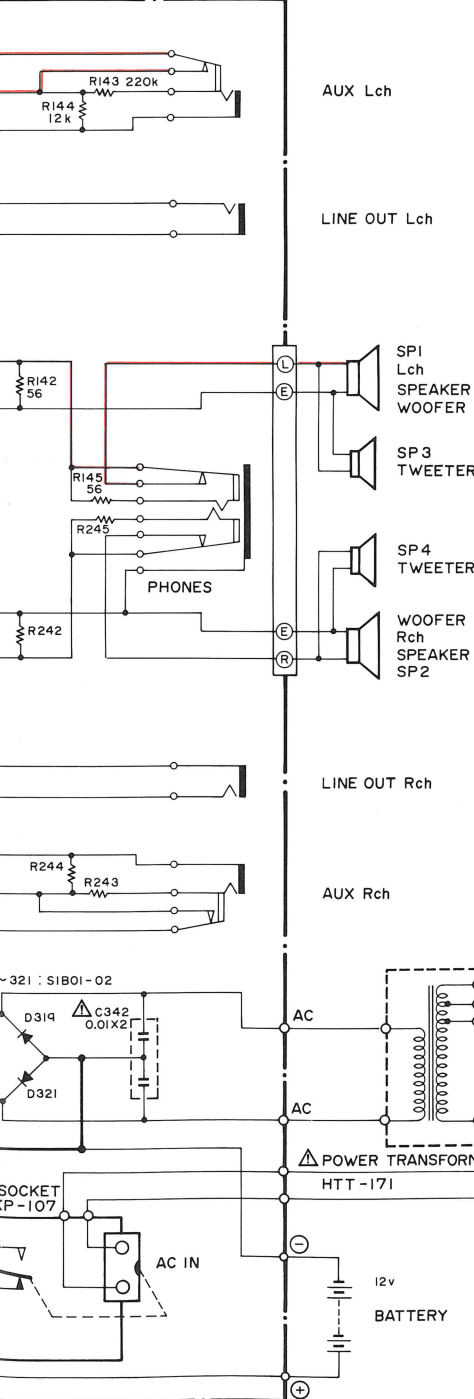


Fig. 42

— PLAY MODE
 - - - REC MODE

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A

B

C

D

8. CONNECTION DIAGRAM (SK-350)

MAIN P.C. BOARD

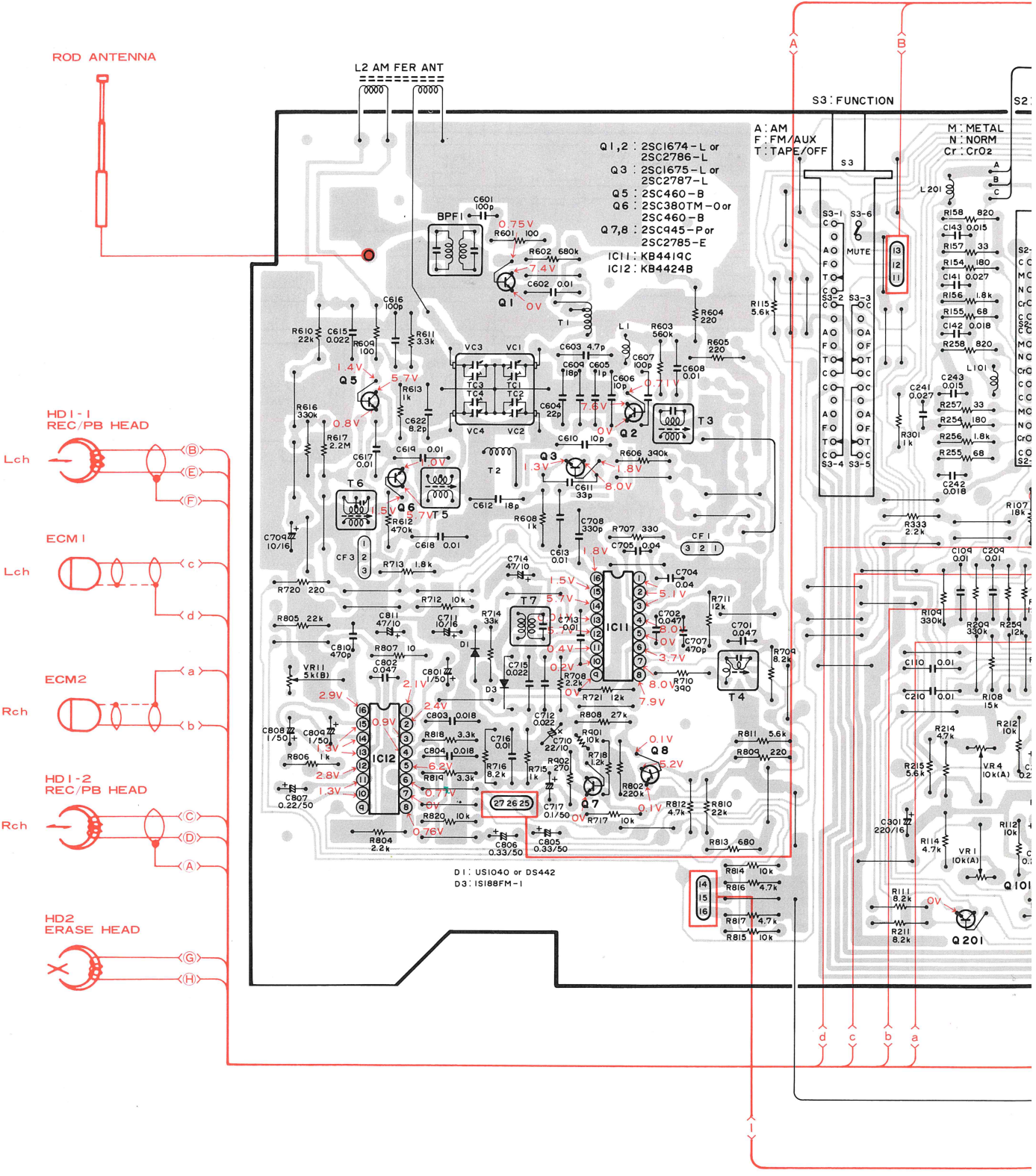
IC, Q	Q5		Q6		Q1		Q3		Q2		Q201			
ADJ	VR11	T6	L2	T5	TC3	TC1	T1	Q7	IC11	Q8	T3	T4	VR4	VR1

A

B

C

D



1

2

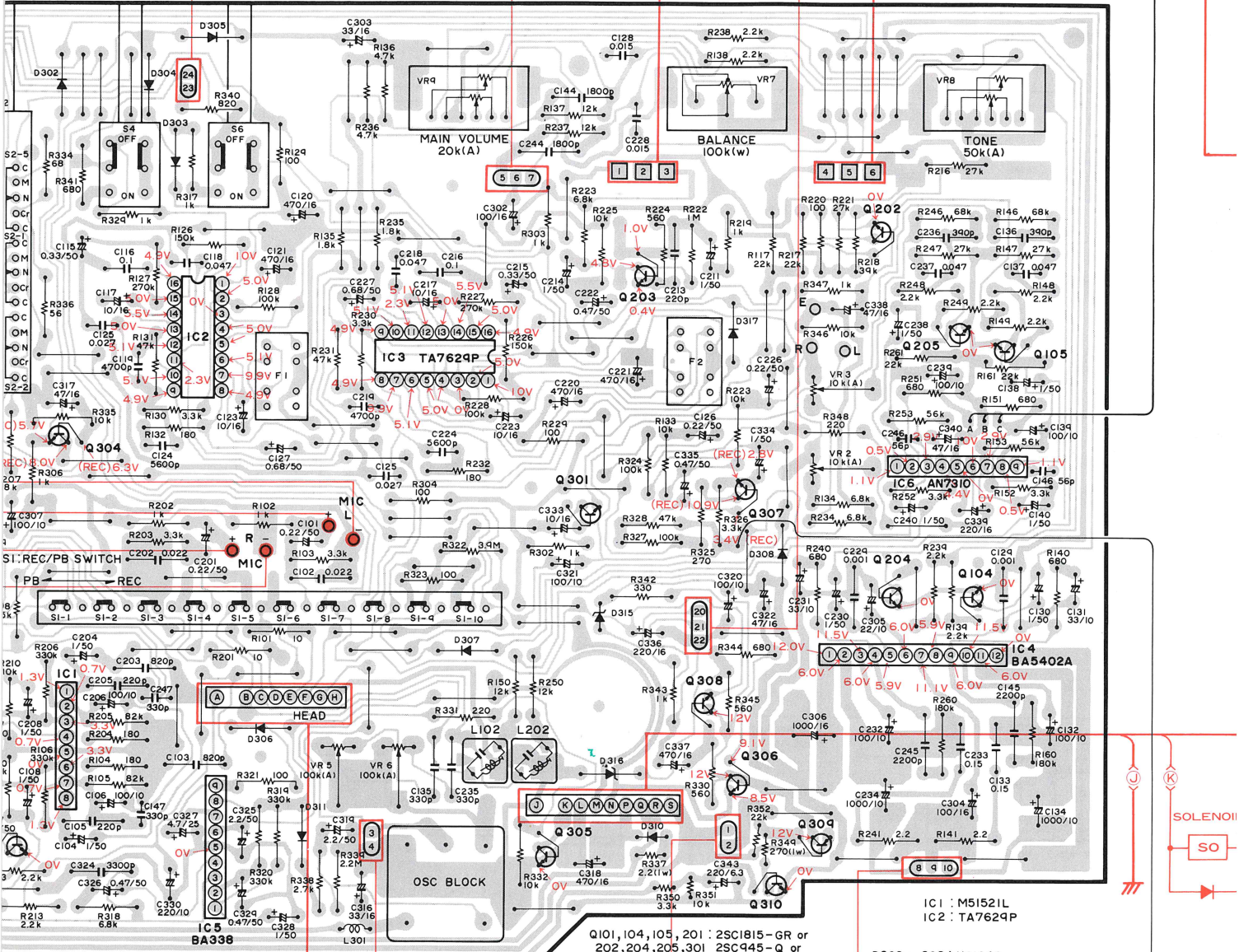
3

Q304 IC1 Q307 Q202 IC6 Q205
 IC1 IC2 IC5 IC3 Q305 Q301 Q203 Q308 Q306 Q310 Q309 Q204 IC4 Q104 Q105

VR5 VR6
 OSC BLOCK

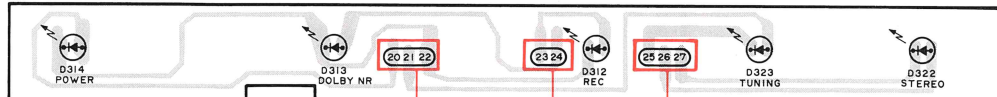
VR3
 VR2

TAPE SELECTOR S4:DOLBY NR S6:REC MUTE

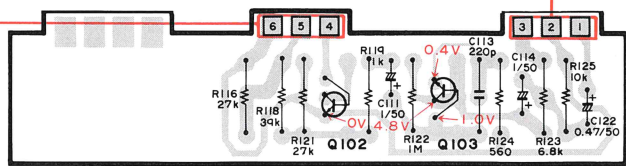


- IC1 : M51521L
- IC2 : TA7624P
- Q101, 104, 105, 201 : 2SC1815-GR or 202, 204, 205, 301 2SC945-Q or 304, 307, 310 JC501-P
- Q203 : 2SC1740LN-R or 2SC2634NC-R or 2SC732TM-GR
- Q305 : 2SC2655-Y
- Q306 : 2SC2209-Q
- Q308 : 2SD468-C
- Q309 : 2SA473-Y
- D302 ~ 308 : US1040 or 311, 317 DS442
- D310 : 1S1801-02
- D315 : RD5.6EB3
- D316 : RD4.1EB3

LED P.C. BOARD



D312, 314, 322: GL-9PR2
 D313, 323: GL-9NG2



Q102 : 2SC1815-GR or 2SC1740LN-R or SC501-P
 Q103 : 2SC1740LN-R or 2SC2634NC-R or 2SC732TM-GR

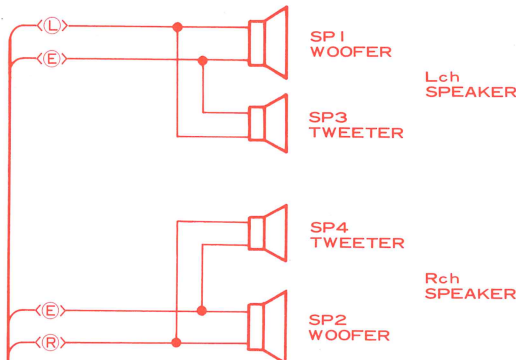
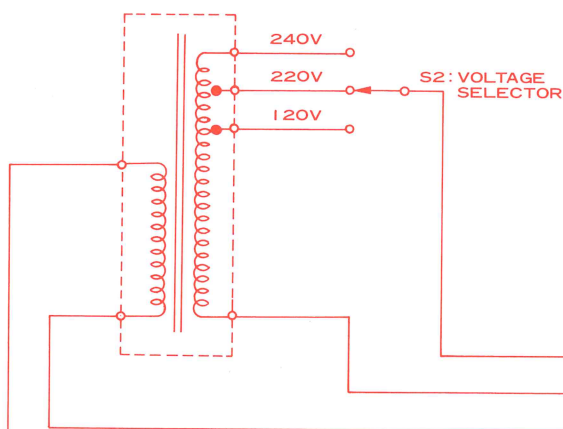
IC, Q

Q102

Q103

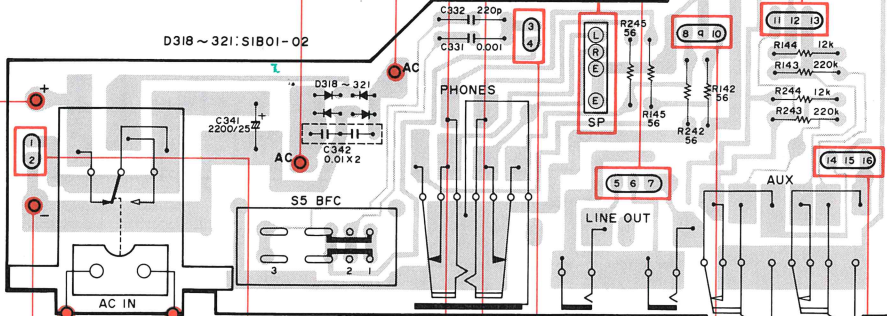
A

POWER TRANSFORMER



B

JACK P.C. BOARD



12V BATTERY

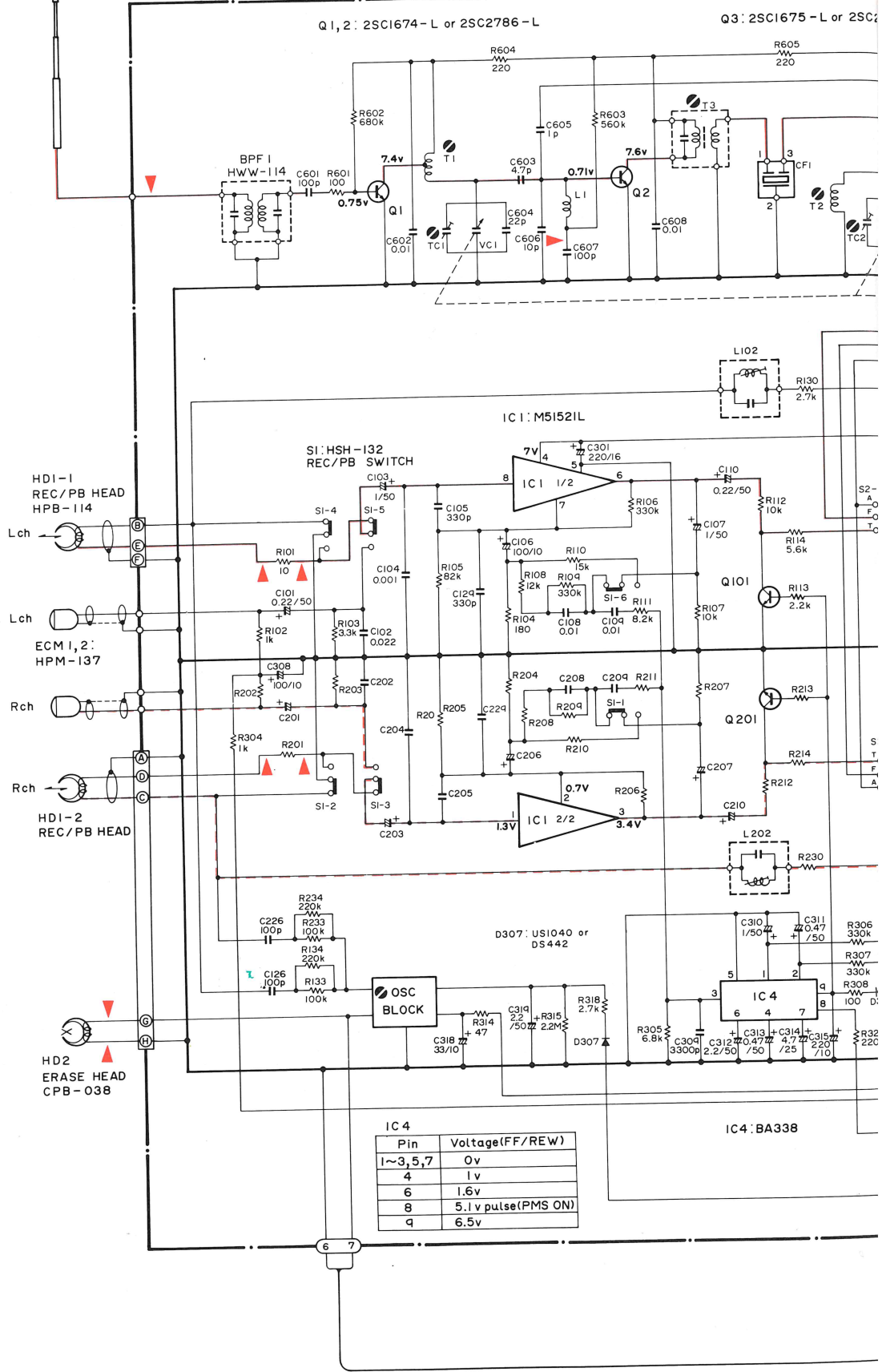
C

D

Fig. 43

9. SCHEMATIC CIRCUIT DIAGRAM (SK-300)

1 | 2 | 3
 MAIN P.C. BOARD



A

B

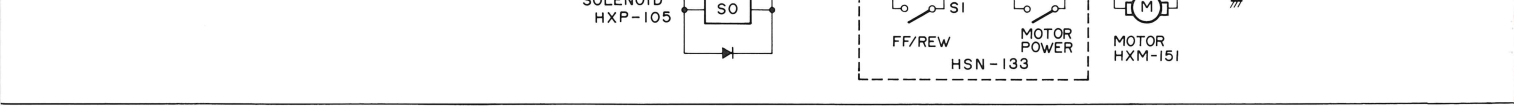
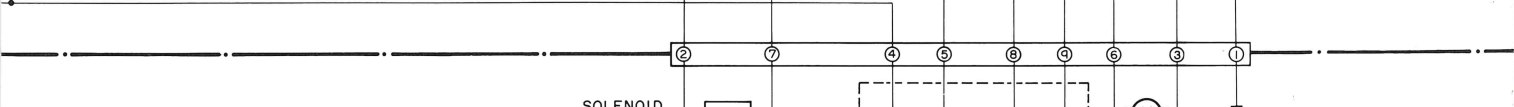
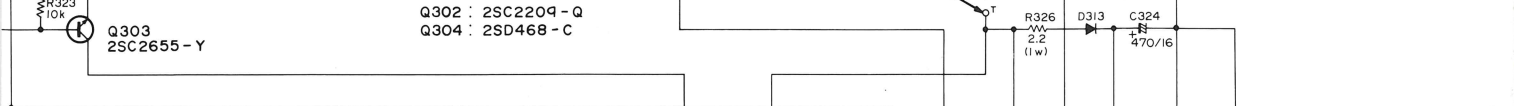
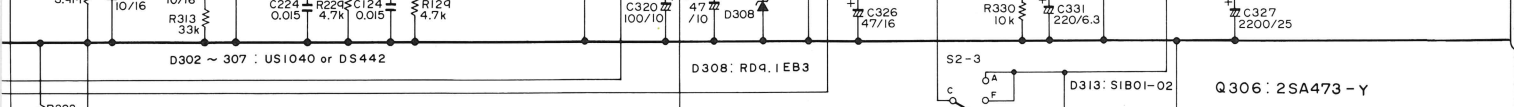
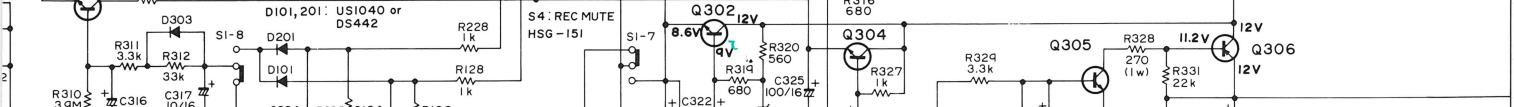
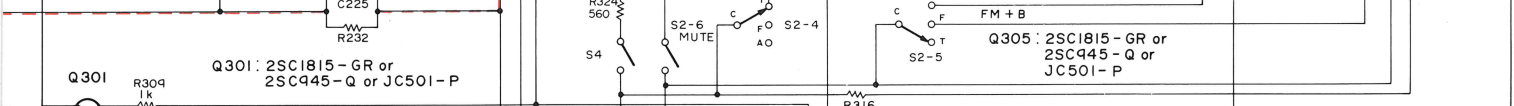
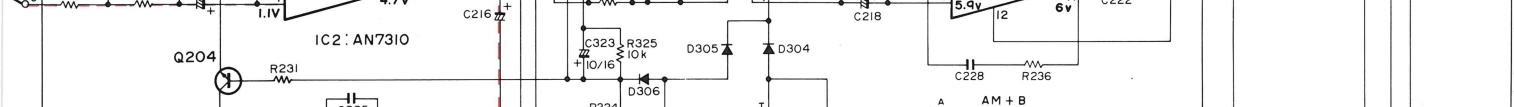
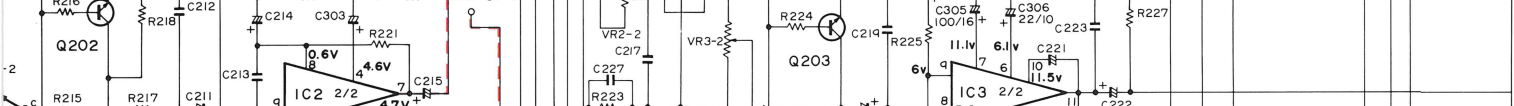
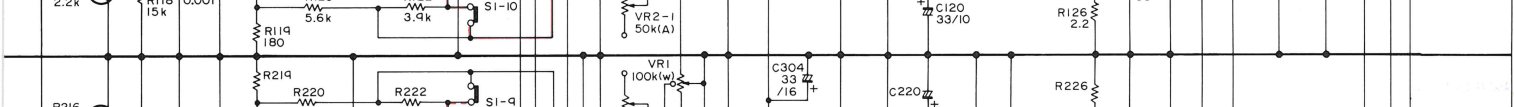
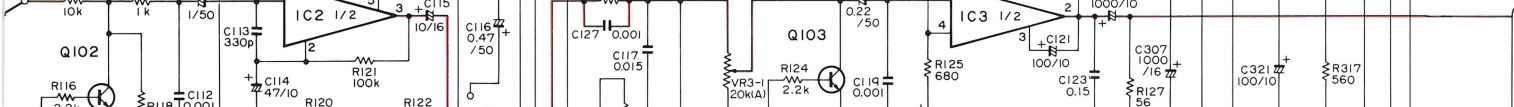
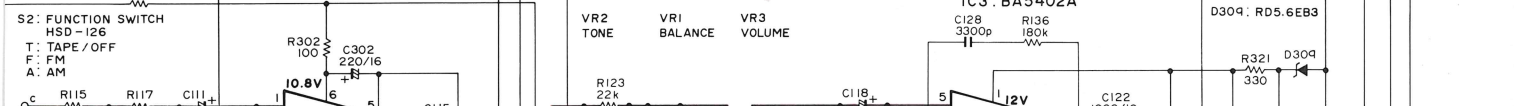
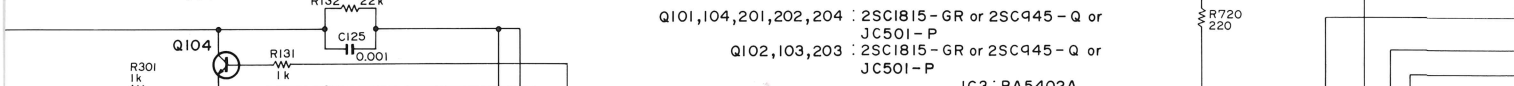
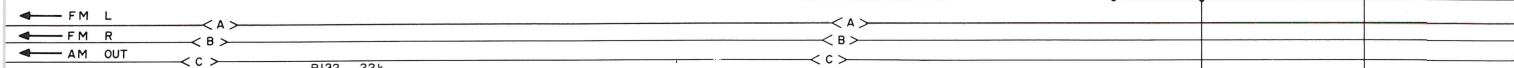
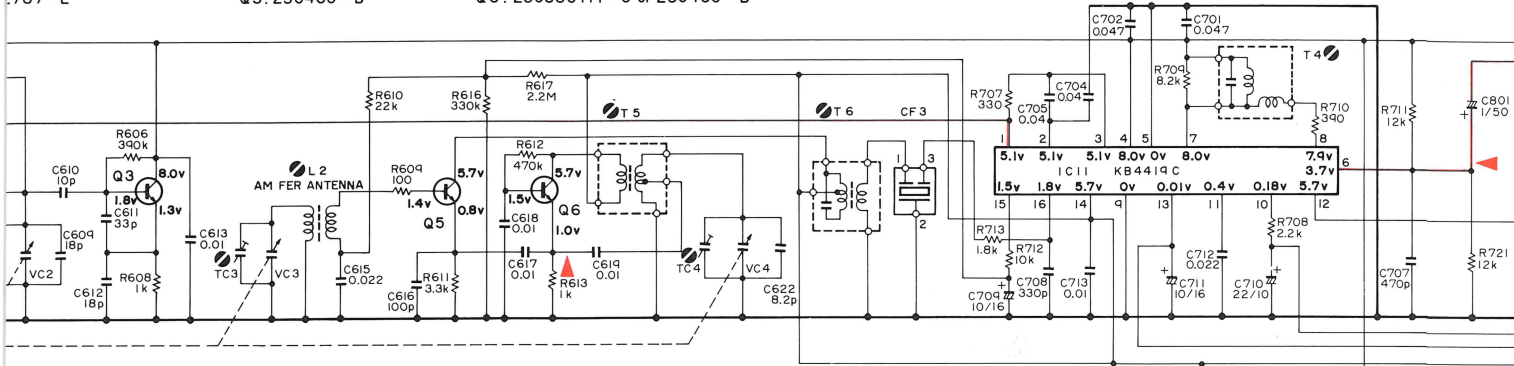
C

D

787-L

Q5: 2SC460 - B

Q6: 2SC380TM - O or 2SC460 - B

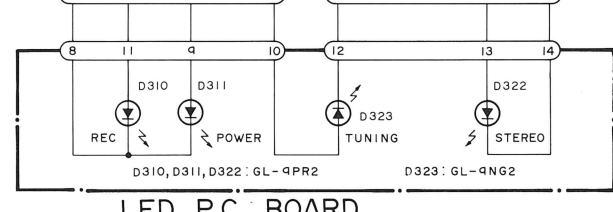
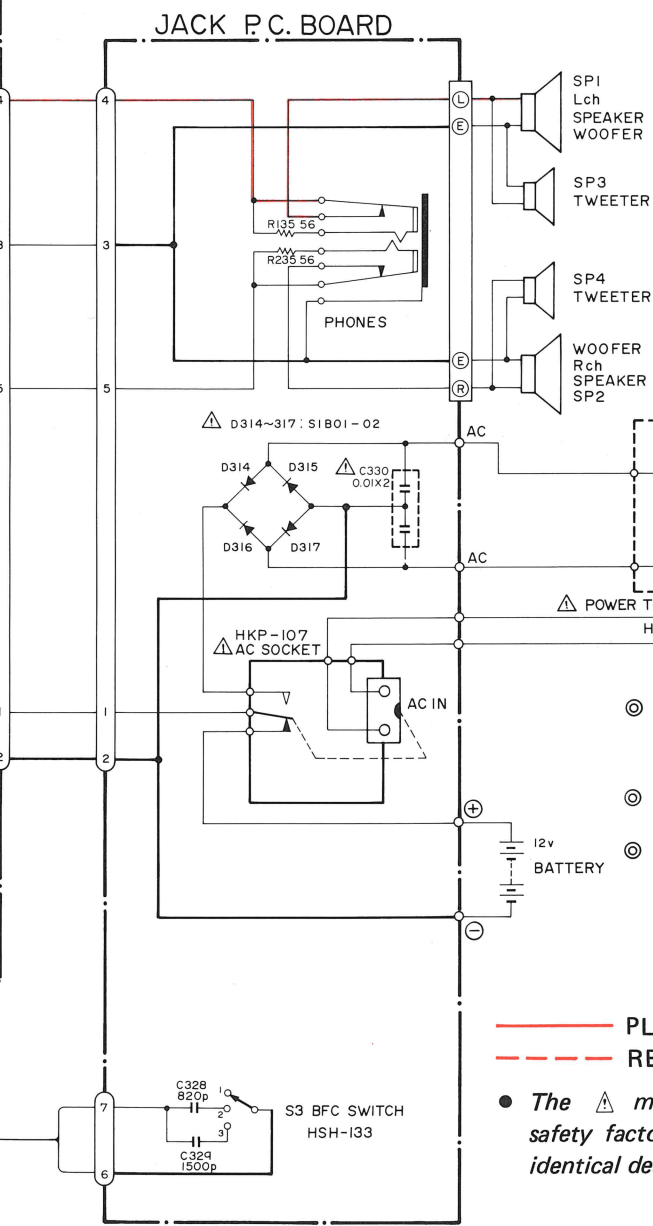
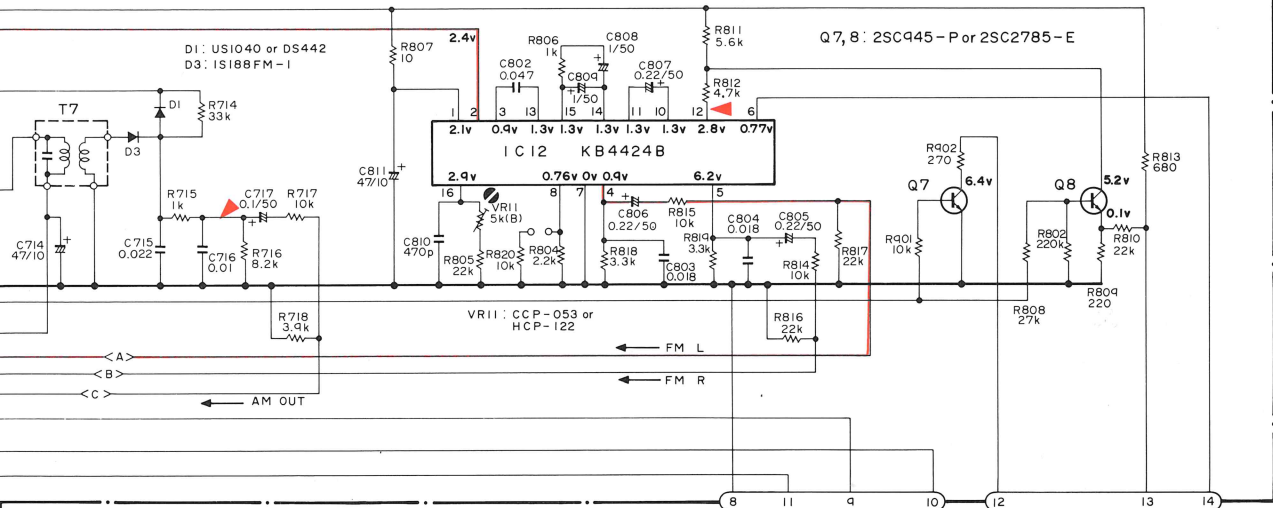


A

B

C

D



- SWITCHES :
- ⊙ MAIN P.C. BOARD
 - S1 : REC/PB SWITCH REC - PB
 - S2 : FUNCTION SWITCH AM - FM - TAPE/OFF
 - S4 : REC MUTE SWITCH ON - OFF
 - ⊙ JACK P.C. BOARD
 - S3 : BFC SWITCH 1 - 2 - 3
 - ⊙ MISCELLANEOUS
 - S1 : FF/REW SWITCH ON - OFF
 - MOTOR POWER SWITCH ON - OFF
 - S2 : VOLTAGE SELECTOR SWITCH 240v - 220v - 120v

The underlined indicates the switch position.

— PLAY MODE

- - - REC MODE

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Fig. 44

1

2

3

10. CONNECTION DIAGRAM (SK-300)

MAIN P.C. BOARD

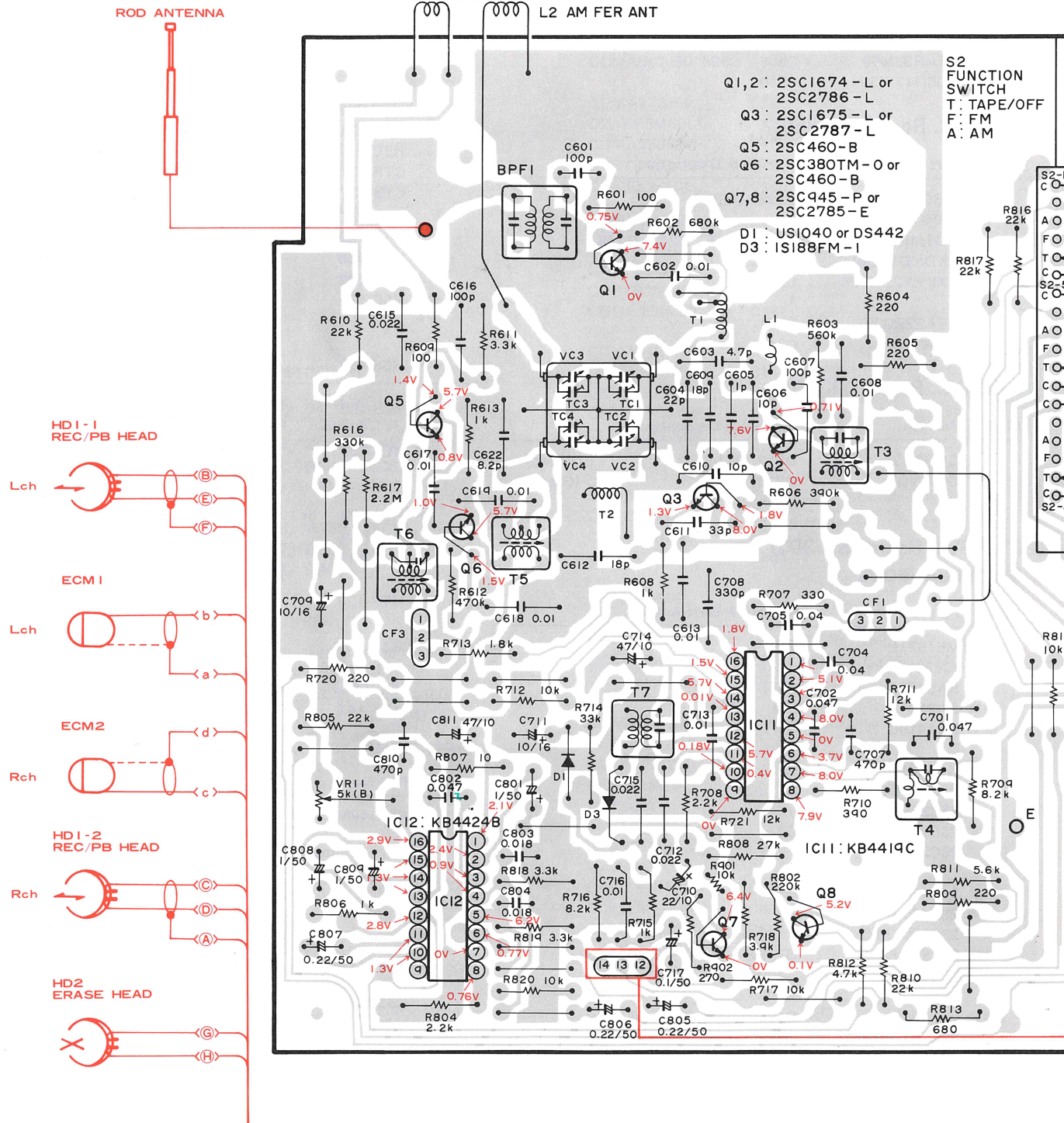
IC,Q	Q5	Q6	Q1	Q3	Q2
ADJ	IC12	T6	TC3	Q7	IC11
	VR11	T5	TC1	T1	T3
		L2	TC4		T4
			TC2		

A

B

C

D



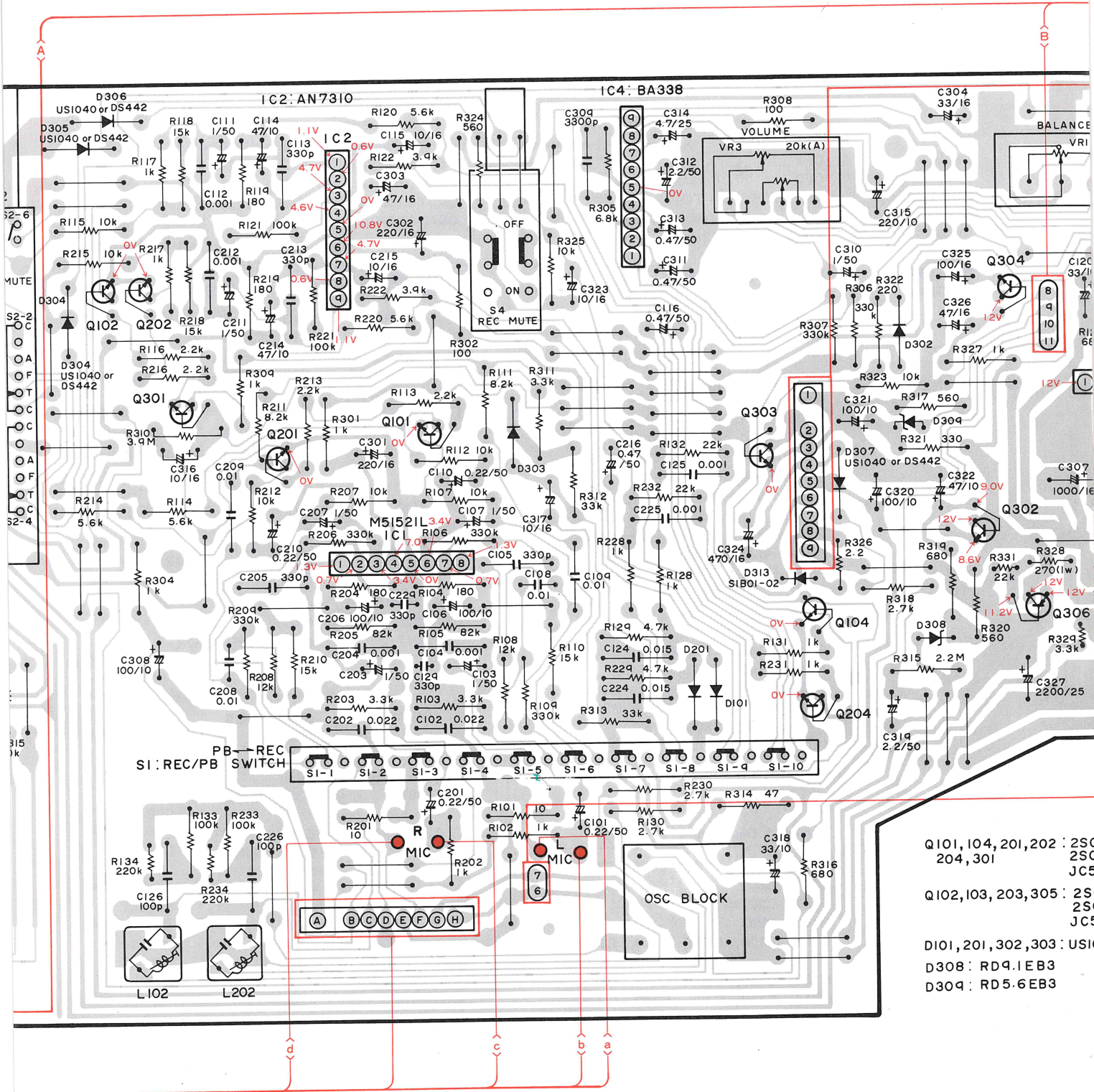
1

2

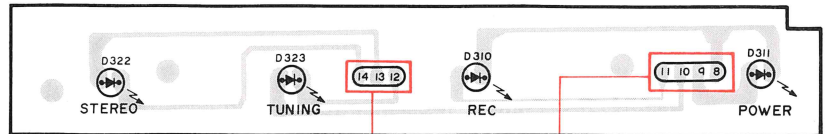
3

Q102 Q202 Q301 Q201 IC2 Q101 IC1 IC4 Q303 Q104 Q204 Q302 Q306 Q304

OSC BLOCK



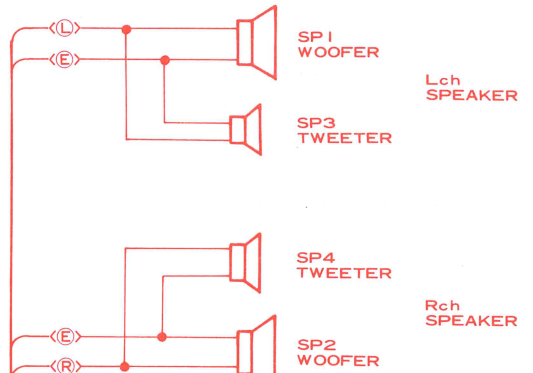
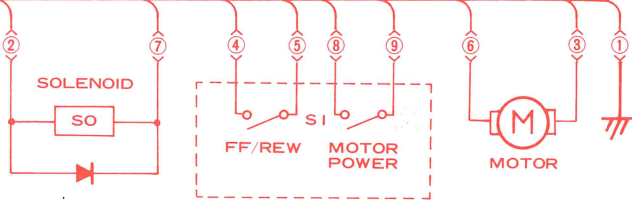
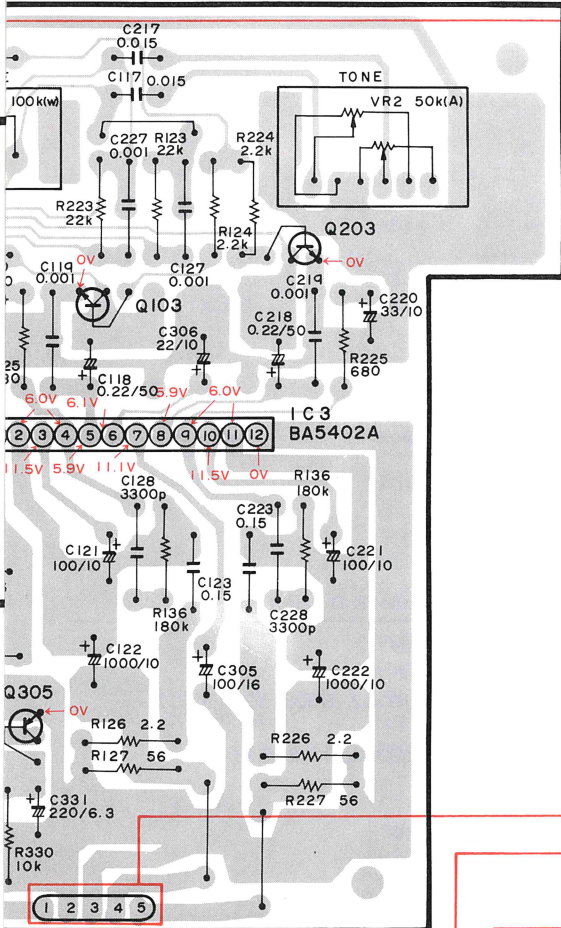
LED P.C. BOARD



D310, D311, D322 : GL-4PR2
 D323 : GL-4NG2

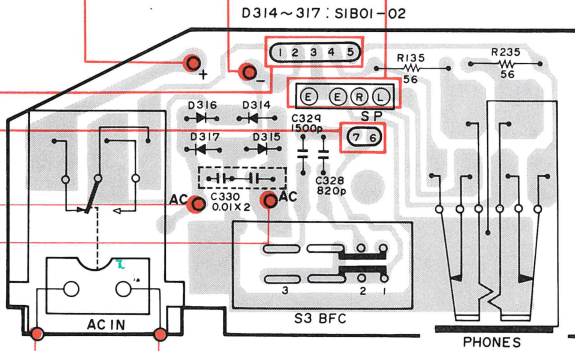
A

Q103 IC3 Q203



B

JACK P.C. BOARD



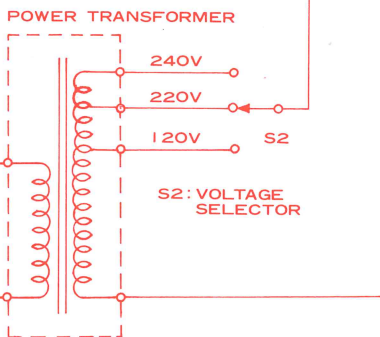
C

1815-GR or
 445-Q or
 01-P

Q302: 2SC2209-Q
 Q303: 2SC2655-Y
 Q304: 2SD468-C
 Q306: 2SA473-Y

1815-GR or
 445-Q or
 01-P

40 or DS442



D

Fig. 45

11. ELECTRICAL PARTS LIST

NOTE:

When ordering resistors, first convert resistance values into code form as shown in the following examples.

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

560Ω 56 × 10¹ 561 RD1/4PS 5 6 1 J
 47kΩ 47 × 10³ 473 RD1/4PS 4 7 3 J
 0.5Ω 0R5 RN2H 0 R 5 K
 1Ω 010 RS1P 0 1 0 K

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

5.62kΩ 562 × 10¹ RN1/4SR 5 6 2 1 F

- For your parts Stock Control, the fast moving items are indicated with the marks ★ ★ and ★.
 ★ ★: GENERALLY MOVES FASTER THAN ★.
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts whose parts numbers are omitted are subject to being not supplied.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Main P.C. Board (SK-350)

MISCELLANEOUS

Mark	Part No.	Symbol & Description	Mark	Part No.	Symbol & Description
★★	M51521L	IC1	★★	2SD468	Q308
★★	TA7629P	IC2, IC3	★★	2SA473-Y	Q309
★★	BA5402A	IC4	★	US1040	or D1, D302-D308, D311, D317
★★	BA338	IC5		DS442	
★★	AN7310	IC6		VACANT	D2, D309, D312-D314
★★	KB4419C	IC11	★	1S188FM-1	D3
★★	KB4424B	IC12	★	SIB01-02	D310
★★	2SC1674-L or 2SC2786-L	Q1, Q2	★	RD5.6EB3	D315
★★	2SC1675-L or 2SC2787-L	Q3	★	RD9.1EB3	D316
	VACANT	Q4		HTF-121	L1 Micro-Inductor
★★	2SC460-B	Q5		HTX-142	L2 Antenna Unit
★★	2SC460-B or 2SC380TM-O	Q6		HTH-105	L101, L201 Coil
				HTF-112	L102, L202 Coil
★★	2SC945-P or 2SC2785	Q7, Q8		HTF-117	L301 Coil
★★	2SC1815 or 2SC945 or JC501	Q101, Q104, Q105, Q201, Q202, Q204, Q205, Q301, Q304 Q307, Q310		HTC-199	T1 Coil
				HTC-201	T2 Coil
★★	2SC1815 or 2SC1740LN or JC501	Q102		HTC-202	or T3 IF Transformer
★★	2SC1740LN or 2SC2634NC or 2SC732TM	Q103, Q203		CTC-028	
★★	2SC2655-Y	Q305		HTC-198	T4 IF Transformer
★★	2SC2209	Q306		CTB-031	or T5 Coil
				CTB-037	
				HTE-135	T6 IF Transformer
				HTE-136	T7 IF Transformer
			★★	HSH-131	S1 Switch (REC/PB)
			★★	HSK-120	S2 Switch (TAPE SELECTOR)
			★★	HSD-126	S3 Switch (FUNCTION)
			★★	HSG-152	S4 Switch (DOLBY NR)
			★★	HSG-151	S6 Switch (REC MUTE)

Mark	Part No.	Symbol & Description	Mark	Part No.	Symbol & Description
★	HCP-123	VR1-VR4		VACANT	C112, C212
★	HCP-126	VR5, VR6		CSZAR33M35	C115, C215
★	HCS-157	VR7		CQMA104J50	C116, C216
				CEA100M16L	C117, C123, C217, C223, C333
★	HCS-155	VR8		CQMA473J50	C118, C218, C137, C237
				CQMA472J50	C119, C219
★	HCS-158	VR9		CEA471M16L	C120, C121, C220, C221, C318, C337
★	HCP-122 or CCP-053 HTF-126	VR11		CEAR47M50L	C122, C222, C326, C329, C335
		CF1		CQMA562J50	C124, C224
	VACANT	CF2		CQMA273J50	C125, C225
	HTF-125	CF3		CEAR68M50LL	C127, C227
	HCL-112	VC1-VC4, TC1-TC4		CQMA153K50	C128, C228
				CKPYD102M50	C129, C229
	HWW-114	BPF1		CEA330M10L	C131, C231
	HTX-120	F1, F2		CQMA154K50	C133, C233
	HTX-140	OSC Block		CEA102M10L	C134, C234
				CKPYB331K50	C135, C235
				CKPYB391K50	C136, C236
				CQMA273K50	C141, C241

RESISTORS

Mark	Part No.	Symbol & Description	Mark	Part No.	Symbol & Description
	RD1/4PM □□□ J	R101-R141, R146-R161, R201-R241, R246-R261, R301-R304, R306, R317-R336, R338-R348, R601-R606, R608-R613, R616, R617,		CQMA183K50	C142, C242, C803, C804
				CQMA153K50	C143, C243
				CKPYX182M25	C144, C244
				CKPYX222M25	C145, C245
				CCDSL560K50	C146, C246
				CCDSL331K50	C147, C247
				VACANT	C148-C200, C248-C300
				CEA221M16L	C301, C302, C336, C339
				CEA330M16L	C303, C316
				CEA101M16L	C304
				CEA220M10L	C305
				CEA102M16L	C306
				VACANT	C308-C305, C323
				CEA470M16L	C317, C322, C338, C340, C714, C811
				CEA2R2M50L	C319, C325
				CKPYX332M25	C324
				CEA4R7M25L	C327
				CEA221M10L	C330
				VACANT	C331, C332, C341, C342
				CEA221M6R3L	C343
				VACANT	C344-C600
				CKDYB101K50	C601
				CCPSL4R7K50	C603
				CCPSL220J50	C604
				CCPSL010M50	C605
				CCPSL100J50	C606
				CCPSL101J50	C607, C616
				CCPCH180J50	C609, C612
				CCPCH100J50	C610
				CCPCH330J50	C611
				VACANT	C614, C620, C621
				CKPYX223N16	C615, C712, C715
				CCPUJ8R2K50	C622
				VACANT	C623-C700, C703, C706
				CKDBC473M25	C701, C702

CAPACITORS

Mark	Part No.	Symbol & Description	Mark	Part No.	Symbol & Description
	CEAR22M50L	C101, C107, C126, C201, C207, C226, C807			
	CKPYY223N16	C102, C202			
	CKPYB821K50	C103, C203			
	CEA010M50L	C104, C108, C111, C114, C130,			
		C138, C140, C204, C208, C211, C214, C230, C238, C240, C328, C334, C801, C808, C809			
	CKPYB221K50	C105, C113, C205, C213			
	CEA101M10L	C106, C132, C139, C206, C232, C239, C307, C320, C321			
	CQMA103K50	C109, C209			
	CKPYX103N25	C110, C210, C602, C608, C613, C617-C619, C713, C716			

Mark	Part No.	Symbol & Description
	CKDYF403Z25	C704, C705
	CKDYB471K50	C707
	CKPYB331K50	C708
	CEA100M16L	C709, C711
	CEA220P10	C710
	CEAR10M50	C717
	VACANT	C718—C800
	CQMA473K50	C802
	CEAR33M50	C805, C806
	CQSH471J50	C810

Jack P.C. Board (SK-350)

Mark	Part No.	Symbol & Description
△	★ SIB01-02	D318—D321
	★★ HSH-133	D5 Switch (BFC)
	RD1/4PM □□□ J	R142—R145, R242—R245
	CKDYD102M50	C331
	CKPYX222M25	C332
	CEA222M25L	C341
△	CWW-006	C342

LED P.C. Board (SK-350)

Mark	Part No.	Symbol & Description
	★ CL-9PR2	D312, D314, D322 LED (Red)
	★ GL-9NG2	D313, D323 LED (Green)

Main P.C. Board (SK-300)

MISCELLANEOUS

Mark	Part No.	Symbol & Description
	★★ M51521L	IC1
	★★ AN7310	IC2
	★★ BA5402A	IC3
	★★ BA338	IC4
	★★ KB4419C	IC11
	★★ KB4424B	IC12
	★★ 2SC1674-L or 2SC2786-L	Q1, Q2
	★★ 2SC1675-L or 2SC2787-L	Q3
	★★ 2SC460-B	Q5
	★★ 2SC460-B or 2SC380TM-O	Q6
	★★ 2SC945-P or 2SC2785	Q7, Q8
	★★ 2SC1815 or JC501 or 2SC945	Q101—Q104, Q201—Q204, Q301, Q305
	★★ 2SC2209	Q302
	★★ 2SC2655-Y	Q303
	★★ 2SD468	Q304
	★★ 2SA473-Y	Q306
	★ US1040 or DS442	D1, D101, D201, D302—D307

Mark	Part No.	Symbol & Description
	VACANT	D2, D301, D310—D312
	★ 1S188FM-1	D3
	★ RD9.1EB3	D308
	★ RD5.6EB3	D309
	★ SIB01-02	D313
	HTF-121	L1 Micro-Inductor
	HTX-142	L2 Antenna Unit
	HTF-112	L102, L202
	HTC-199	T1 Coil
	HTC-201	T2 Coil
	HTC-202 or CTC-028	T3 IF Transformer
	HTC-198	T4 IF Transformer
	CTB-031 or CTB-037	T5 Coil
	HTE-135	T6 IF Transformer
	HTE-136	T7 IF Transformer
	★★ HSH-132	S1 Switch (REC/PB)
	★★ HSD-126	S2 Switch (FUNCTION)
	★★ HSG-151	S4 Switch (REC MUTE)
	★ HCS-157	VR1 Volume, 100kΩ(W) (BALANCE)
	★ HCS-155	VR2 Volume, 50kΩ(A) (TONE)
	★ HCS-158	VR3 Volume, 20kΩ(A) (VOLUME)
	★ HCP-122 or CCP-053	VR11 Semi-fixed, 5kΩ(B)
	HCL-112	VC1—VC4, TC1—TC4 Variable Capacitor
	HTF-126	CF1 Ceramic Filter
	VACANT	CF2
	HTF-125	CF3 Ceramic Filter
	HWW-114	BPF1 Filter
	HTX-141	OSC Block

RESISTORS

Mark	Part No.	Symbol & Description
	RD1/4PM □□□ J	R101—R133, R136, R201—R233, R236, R301, R302, R304—R325, R327, R330, R601—R606, R608—R613, R616, R617, R707—R718, R720, R721, R802, R804—R820, R902
	RD1/4VM □□□ J	R134, R234, R329, R331, R901
	RN1P □□□ K	R326
	RS1P □□□ K	R328
	VACANT	R135, R137—R200, R235, R237—R300, R303, R332—R600,
		R607, R614, R615, R618—R706, R719, R722—R801, R803, R821—R900

CAPACITORS

Mark	Part No.	Symbol & Description
	CEAR22M50L	C101, C110, C118, C201, C210, C218, C806, C807
	CKPYY223N16	C102, C202
	CEA010M50L	C103, C107, C111, C203, C207, C211, C310, C801, C808, C809
	CKPYB102K50	C104, C112, C119, C125, C127, C204, C212, C219, C225, C227
	CKPYB331K50	C105, C113, C205, C213
	CEA101M10L	C106, C121, C206, C221, C308, C320, C321
	CQMA103K50	C108, C208
	CKPYX103N25	C109, C209, C602, C608, C613, C617-C619, C713, C716
	CEA470M10L	C114, C214, C322
	CEA100M16L	C115, C215, C316, C317, C323, C709, C711
	CEAR47M50L	C116, C216, C311, C313
	CQMA153K50	C117, C217
	CEA330M10L	C120, C220, C318
	CEA102M10L	C122, C222
	CQMA154K50	C123, C223
	CKPYX153N25	C124, C224
	CCPSL101J50	C126, C226
	CKPYV332K25	C128, C228
	CCDSL331K50	C129, C229
	VACANT	C130-C200, C230-C300
	CEA221M16L	C301, C302
	CEA470M16L	C303, C326, C714, C811
	CEA330M16L	C304
	CEA101M16L	C305, C325
	CEA220M10L	C306
	CEA102M16L	C307
	CKPYZ332M25	C309
	CEA2R2M50L	C312, C319
	CEA4R7M25L	C314
	CEA221M10L	C315
	CEA471M16L	C324
	CEA222M25L	C327
	VACANT	C328-C600
	CKDYB101K50	C601
	CCPSL4R7K50	C603
	CCPSL220J50	C604
	CCPSL010M50	C605
	CCPSL100J50	C606
	CCPSL101J50	C607, C616
	CCPCH180J50	C609, C612
	CCPCH100J50	C610
	CCPCH330J50	C611
	VACANT	C614, C620, C621, C623-C700
	CKPYY223N16	C615, C712, C715
	CCPUJ8R2K50	C622
	CKDBC473M25	C701, C702
	VACANT	C703, C706
	CKDYF403Z25	C704, C705

Mark	Part No.	Symbol & Description
	CKDYB471K50	C707
	CKPYB331K50	C708
	CEA220P10	C710
	CEAR10M50	C717
	VACANT	C718-C800
	CQMA473K50	C802
	CQMA183K50	C803, C804
	CEAR22M50	C805
	CQSH471J50	C810

Jack P.C. Board (SK-300)

Mark	Part No.	Symbol & Description
△	★ SIB01-02	D314-317
	★★ HSH-133	S3 Switch (BFC)
	RD1/4PM □□□ J	R135, R235
	CKPYB821K50	C328
	CKPYX152M25	C329
△	CWW-006	C330

LED P.C. Board (SK-300)

Mark	Part No.	Symbol & Description
	★ GL-9PR2	D310, D311, D322 LED (Red)
	★ GL-9NG2	D323 LED (Green)

Miscellaneous Parts List

Mark	Part No.	Symbol & Description
	★★ HPV-119	SP1, SP2 Speaker (Woofer)
	★★ HPV-118 or HPV-120	SP3, SP4 Speaker (Tweeter)
	★ HPM-137	ECM1, ECM2 Microphone Unit
△	★ HTT-171	Power Transformer(120V/220V/240V)
	★★ HPB-401	HD1 (SK-350) Head (REC/PB)
	★★ HPB-114	HD1 (SK-300) Head (REC/PB)
	★ HPB-351	HD2 (SK-350) Head (ERASE)
	★ CPB-038	HD2 (SK-300) Head (ERASE)
	HXP-105	SO Solenoid
	★★ HXM-151	M Motor
	★★ HSN-133	S1 Switch (FF/REW, Motor Power)
△	★★ HSD-128	S2 Switch (Voltage Selector)

12. CABINET EXPLODED VIEW (SK-350)

• Parts List

NOTE

- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.

★★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts whose parts numbers are omitted are subject to being not supplied.

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1.	HNS-569	Handle	★	25.	HAC-291	Button (FF)
	2.	HNS-570	Grip	★	26.	HAC-292	Button (REW)
	3.	CMZ30P100FBK	Screw	★	27.	HAC-293	Button (PLAY)
	4.	HNV-518	Holder	★	28.	HAC-294	Button (REC)
	5.	BLF30P080FMC	Screw		29.	PMZ26P080FMC	Screw
	6.	HAM-117	Badge		30.	HNV-520	Arm
	7.	HBH-371	Spring		31.	HNV-523	Holder
	8.	HNV-521	Lever		32.	HXA-870	Cassette Mechanism Assy
	9.	HNB-199	Net		33.	BMC30P120FMC	Screw
★★	10.	HXA-877	Cassette Door Assy		34.	HBL-164	Spring
	11.	HNB-200	Net		35.	PSZ26P060FMC	Screw
	12.	HNM-312	Seal		36.		Shield
	13.	BSZ26P010FMC	Screw		37.	HNC-625	Terminal
★	14.	HXA-875	Front Case Assy		38.	HAC-279	Cover
★★	15.	HPV-120 or	Speaker (Tweeter)	★	39.	HNS-572	Rear Case
		HPV-118		★	40.	HAA-204	Knob (TONE, BALANCE, VOLUME)
★★	16.	HPV-119	Speaker (Woofer)	★	41.	HAC-278	Button (REC MUTE, DOLBY NR)
	17.	HDE-276	Connector	★	42.	HAC-263	Knob (TAPE SELECTOR)
	18.	BMC30P080FMC	Screw	★	43.	HAA-203	Knob (FUNCTION)
	19.	HBL-174	Spring	★	44.	HAA-202	Knob (TUNING)
	20.	BMC30P100FMC	Screw		45.	HNV-476	Spacer
	21.	HNC-650	Bracket		46.	HBA-145	Screw
	22.	HXA-878	Damper Unit	★★	47.	HDX-109	Antenna
★	23.	HAC-289	Button (PAUSE)		48.	PMZ30P120FBK	Screw
★	24.	HAC-290	Button (STOP/EJECT)	★★	49.	HNS-565	Cover

1

2

3

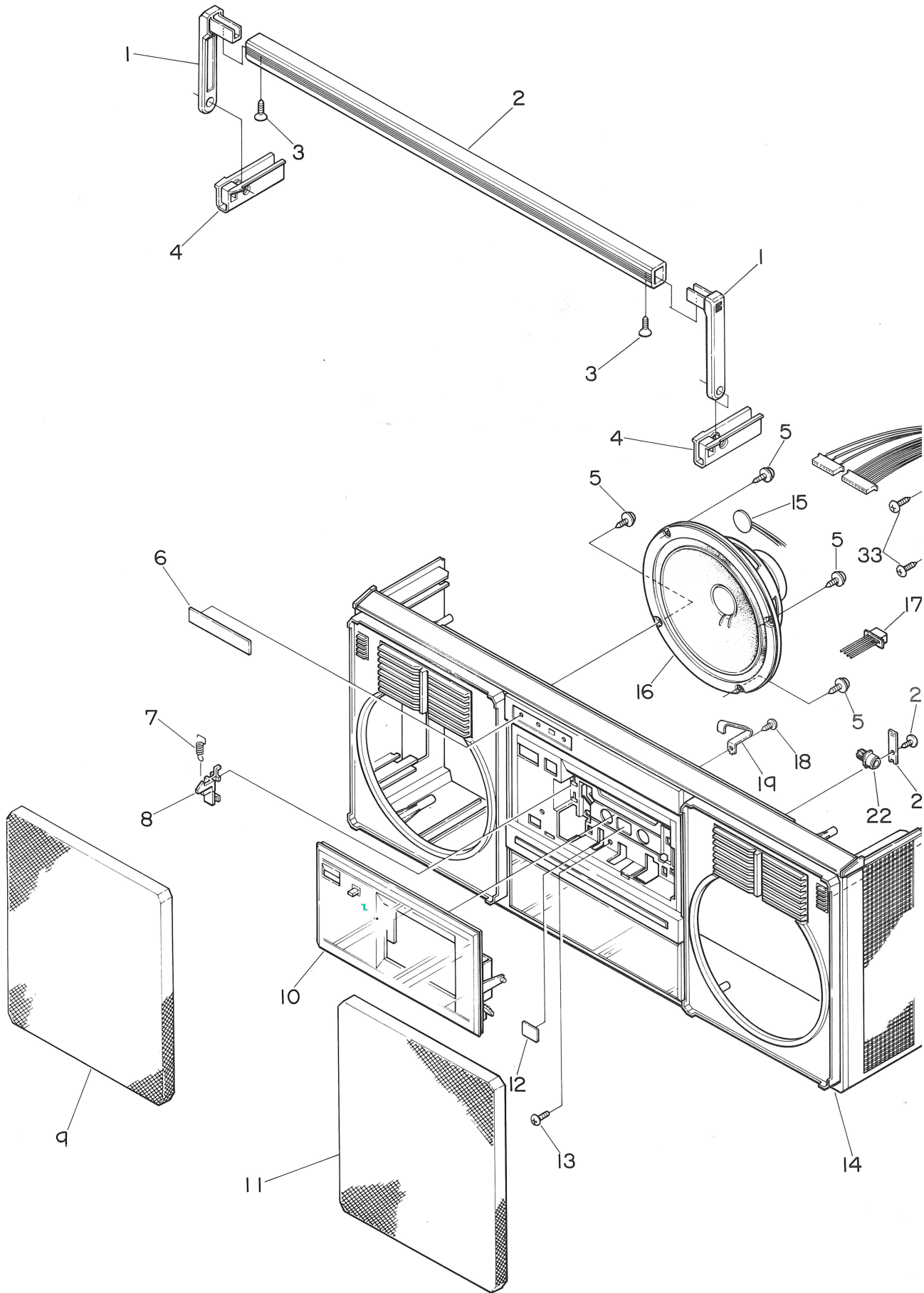
• Cabinet (SK-350)

A

B

C

D



1

2

3

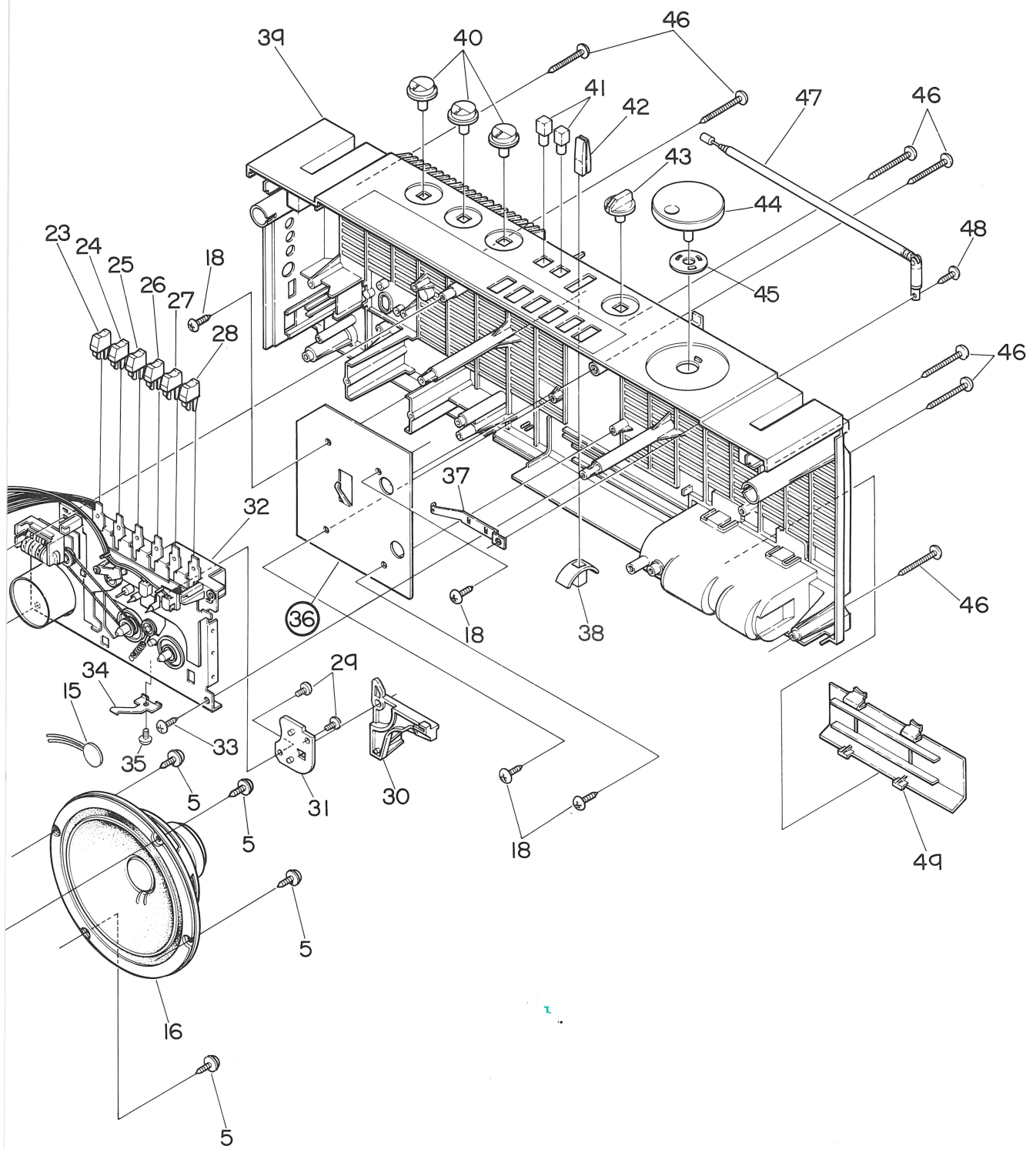


Fig. 46

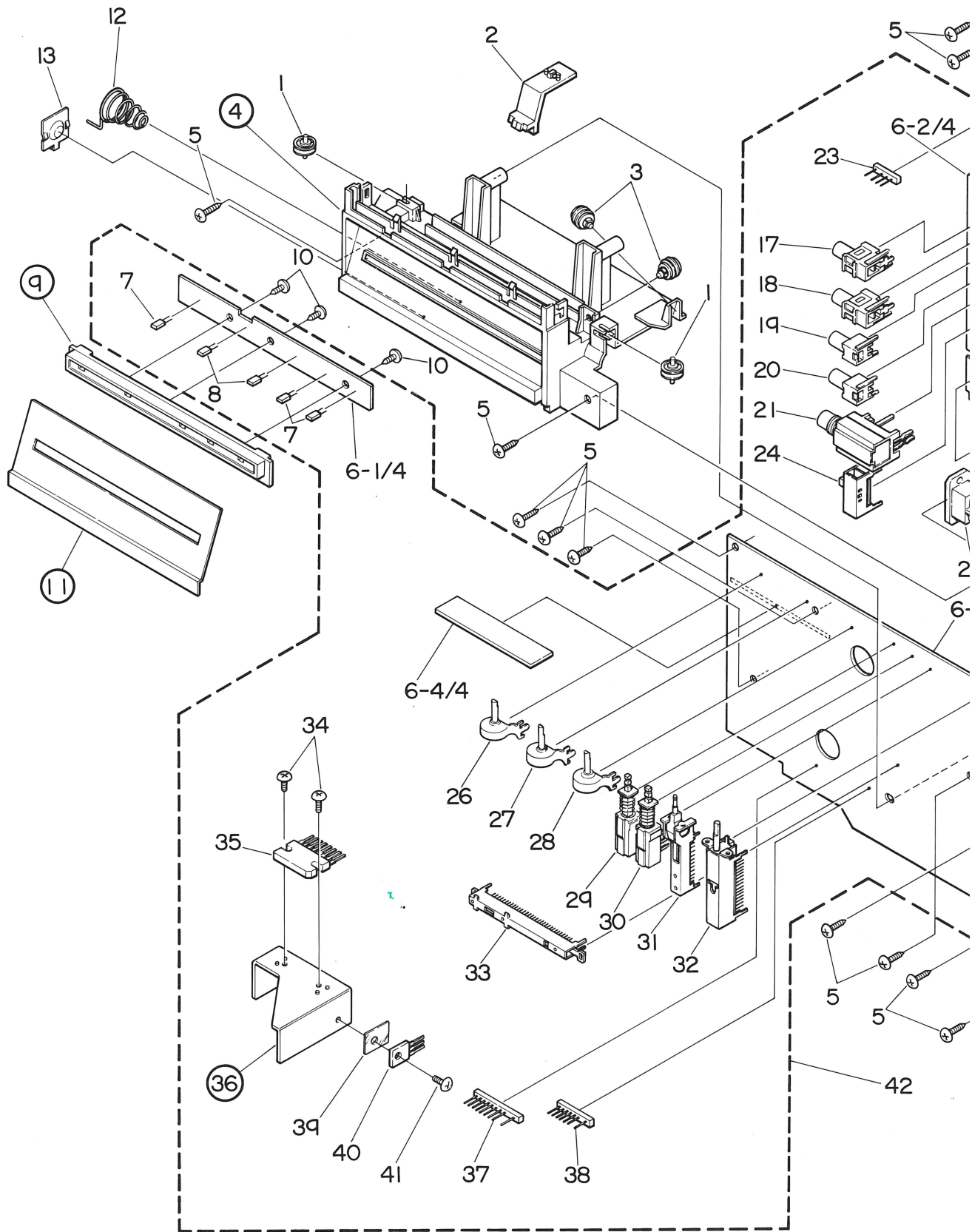
13. CHASSIS EXPLODED VIEW (SK-350)

A

B

C

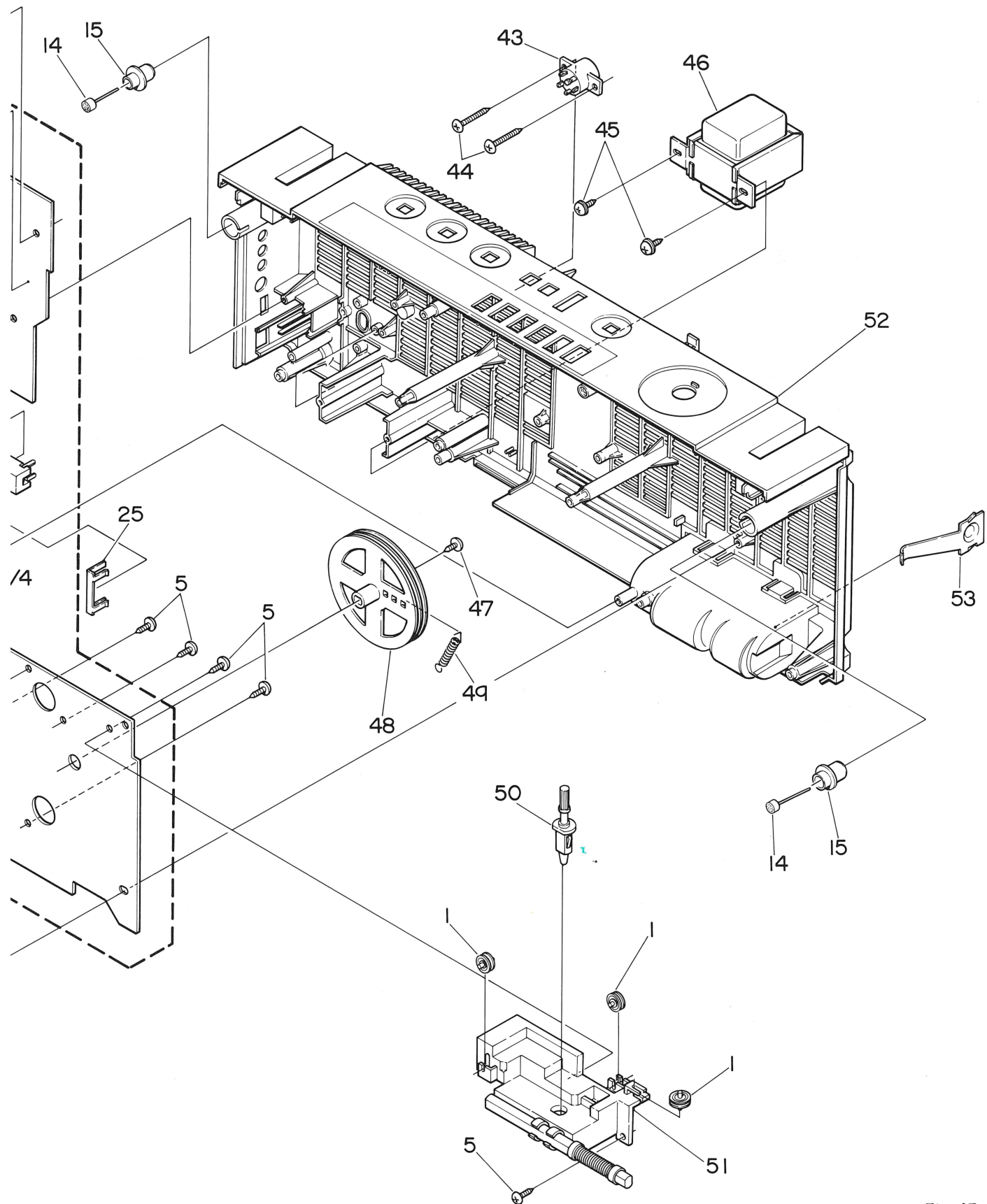
D



4

5

6



A

B

C

D

4

5

6

Fig. 47

● Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description	
	1.	CNV-800	Pulley	★	28.	HCS-158	Volume, 20k Ω (A) (VOLUME)	
	2.	HAF-120	Pointer	★★	29.	HSG-151	Switch (REC MUTE)	
	3.	HXA-777	Pulley Assy	★★	30.	HSG-152	Switch (DOLBY NR)	
	4.		Chassis	★★	31.	HSK-120	Switch (TAPE SELECTOR)	
	5.	BNC30P100FMC	Screw	★★	32.	HSD-126	Switch (FUNCTION)	
	6.	HNX-207	P.C. Board	★★	33.	HSH-131	Switch (REC/PB)	
★	7.	GL-9PR2	LED (Red)	★★	34.	BMZ30P080FMC	Screw	
★	8.	GL-9NG2	LED (Green)	★★	35.	BA5402A	IC	
	9.		Holder		36.		Heat Sink	
	10.	BNC30P080FMC	Screw		37.	CKS-051	Plug (9P)	
	11.		Scale		38.	CKS-063	Plug (8P)	
	12.	HBH-370	Spring		39.	HNM-351	Insulating Plate	
	13.	HNC-622	Terminal	★★	40.	2SC2209	Transistor	
★	14.	HPM-137	Microphone Unit		41.	BMZ30P060FMC	Screw	
	15.	HNV-294	Holder		42.	HWX-406	P.C. Board Unit	
	16.	VACANT		△★★	43.	HSD-128	Switch (Voltage Selector)	
	17.	HKN-121	Jack (AUX, White)		44.	BNC30P120FMC	Screw	
	18.	HKN-122	Jack (AUX, Red)		45.	BNM30P120FMC	Screw	
	19.	HKN-123	Jack (LINE OUT, White)	△	★	46.	HTT-171	Power Transformer(120V/220V/240V)
	20.	HKN-124	Jack (LINE OUT, Red)		47.	BMZ26P050FMC	Screw	
	21.	HKN-139	Jack (Phones)		48.	HNV-519	Pulley	
△	22.	HKP-107	AC Socket		49.	HBH-368	Spring	
	23.	CKS-032	Plug		50.	HNV-475	Tunig Shaft	
★★	24.	HSH-133	Switch (BFC)		51.	HTX-142	Antenna Unit	
	25.	HNC-633	Holder	★	52.	HNS-572	Rear Case	
★	26.	HCS-155	Volume, 50k Ω (A) (TONE)		53.	HNC-623	Terminal	
★	27.	HCS-157	Volume, 100k Ω (W) (BALANCE)					

14. CABINET EXPLODED VIEW (SK-300)

● Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1.	HNS-570	Grip	★	24.	HAC-284	Button (REW)
	2.	HNS-569	Handle	★	25.	HAC-286	Button (PLAY)
	3.	CMZ30P100FBK	Screw	★	26.	HAC-283	Button (REC)
	4.	HNV-518	Holder		27.	PMZ26P080FMC	Screw
	5.	BLF30P080FMC	Screw		28.	HNV-520	Arm
★★	6.	HPV-120 or HPV-118	Speaker (Tweeter)		29.	HNV-523	Holder
	7.	HDE-276	Connector		30.	HXA-860	Cassette Mechanism Assy
★★	8.	HPV-119	Speaker (Woofer)		31.	BNC30P120FMC	Screw
	9.	BMC30P080FMC	Screw		32.	HBL-164	Spring
	10.	HBL-174	Spring		33.	PSZ26P060FMC	Screw
	11.	BMC30P100FMC	Screw		34.	BMC30P080FMC	Screw
	12.	HNC-650	Bracket	★	35.	HNS-563	Rear Case
	13.	HXA-878	Damper Unit		36.	HNC-625	Terminal
★	14.	HXA-874	Front Case Assy		37.		Shield
	15.	HAM-117	Badge	★	38.	HAA-201	Knob (TONE, BALANCE, VOLUME)
	16.	HBH-371	Spring	★	39.	HAC-271	Button (REC MUTE)
	17.	HNV-521	Lever	★	40.	HAA-200	Knob (FUNCTION)
	18.	HWM-312	Seal	★	41.	HAA-199	Knob (TUNING)
	19.	BSZ26P100FMC	Screw		42.	HNV-476	Spacer
★★	20.	HXA-877	Cassette Door Assy		43.	HBA-145	Screw
★	21.	HAC-287	Button (PAUSE)	★★	44.	HDX-109	Antenna
★	22.	HAC-288	Button (STOP/EJECT)		45.	PMZ30P120FBK	Screw
★	23.	HAC-285	Button (FF)	★★	46.	HNS-565	Cover

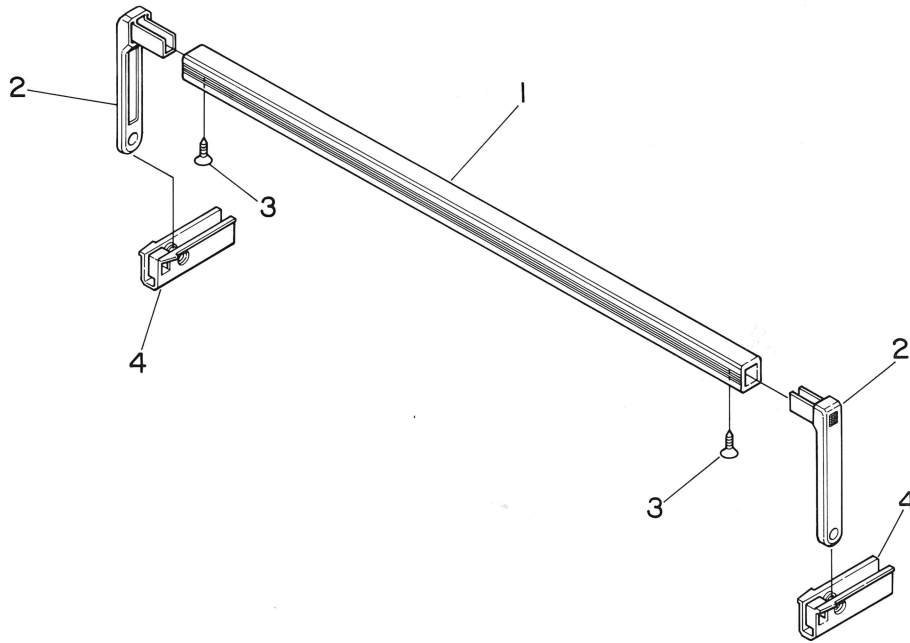
1

2

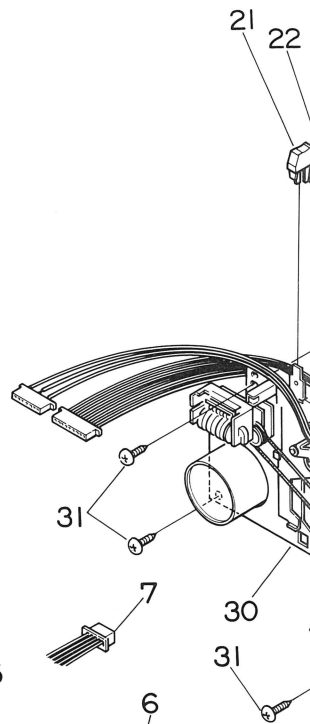
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● Cabinet (SK-300)

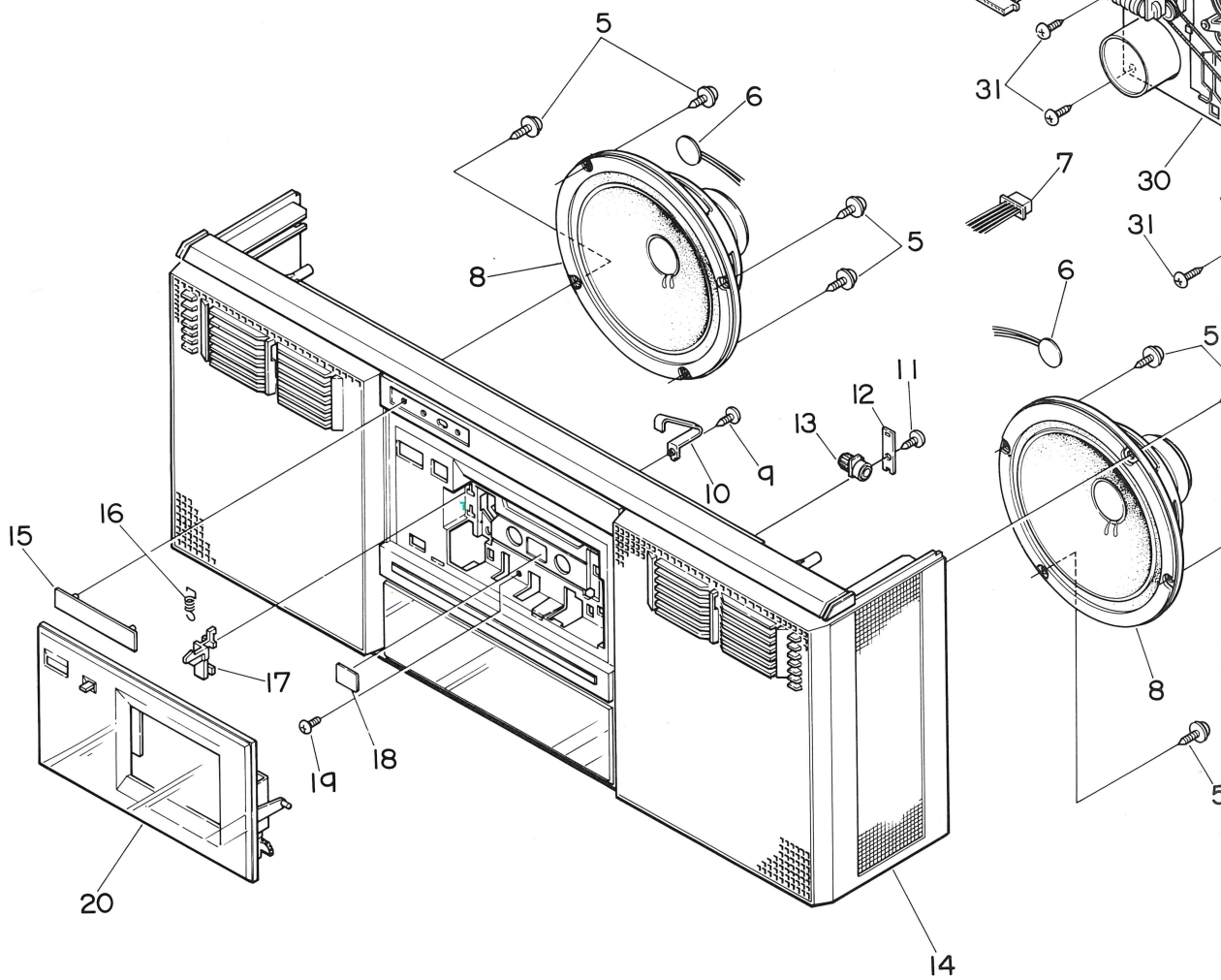
A



B



C



D

1

2

3

4

5

6

A

B

C

D

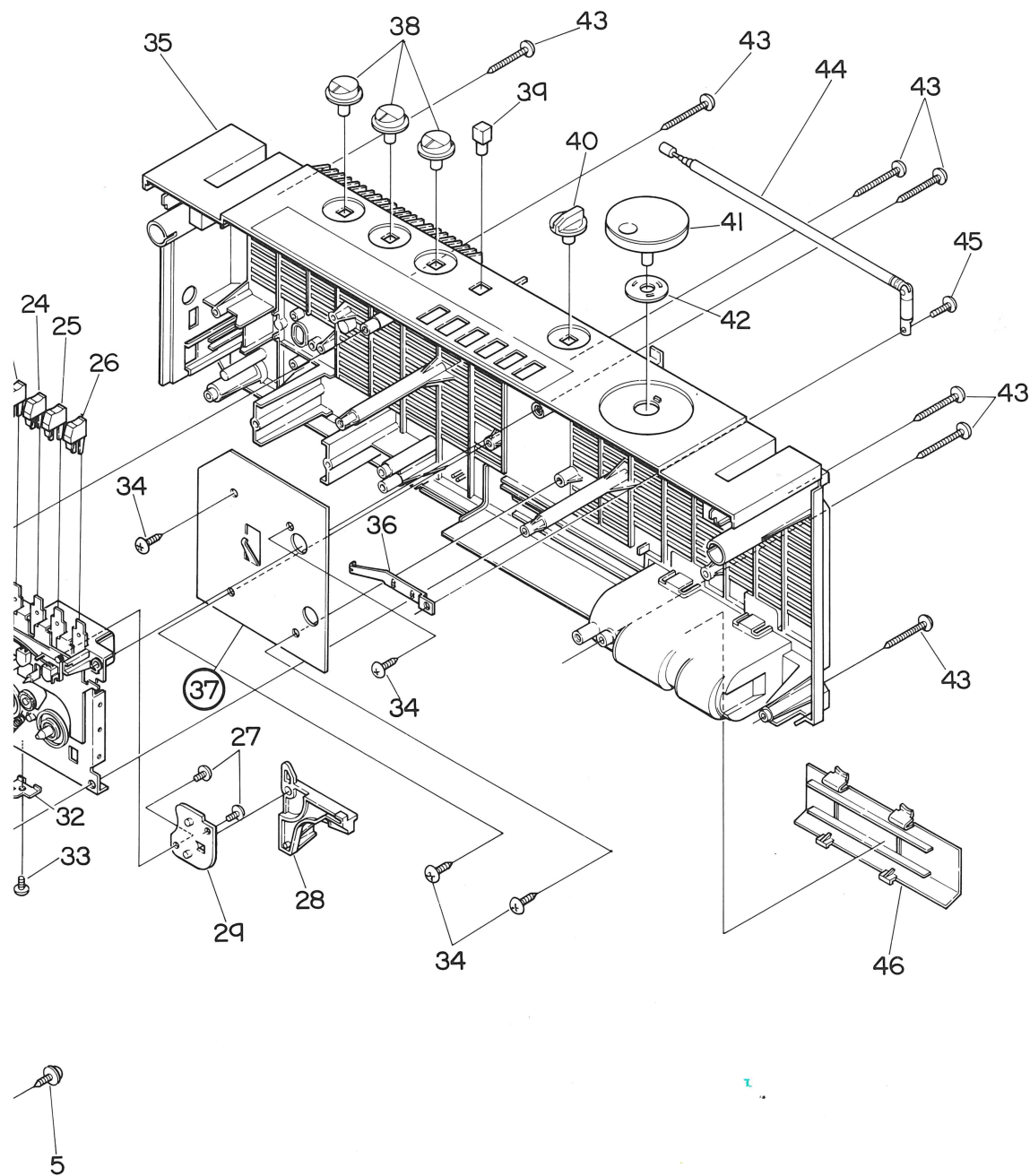


Fig. 48

4

5

6

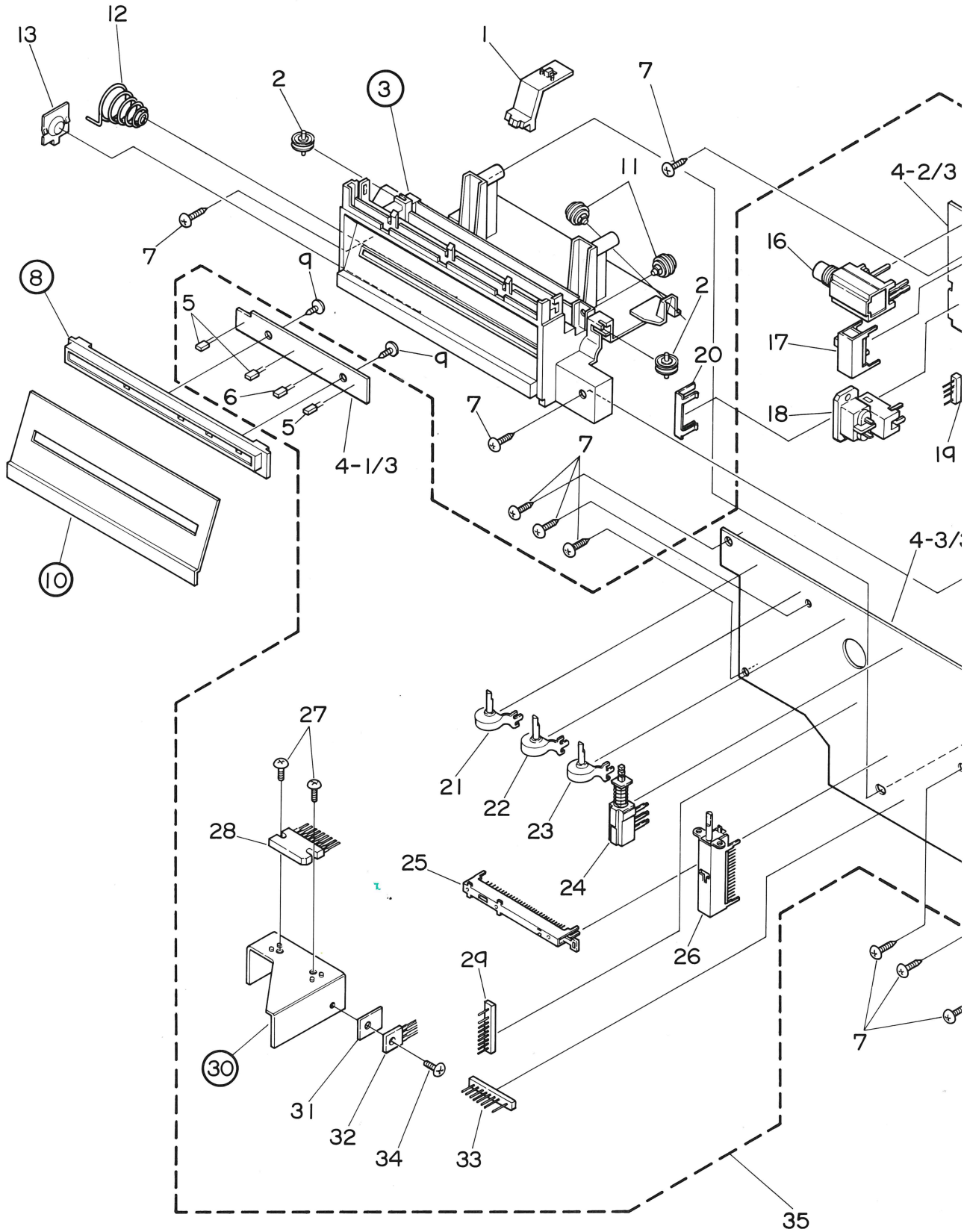
15. CHASSIS EXPLODED VIEW (SK-300)

A

B

C

D



4

5

6

A

B

C

D

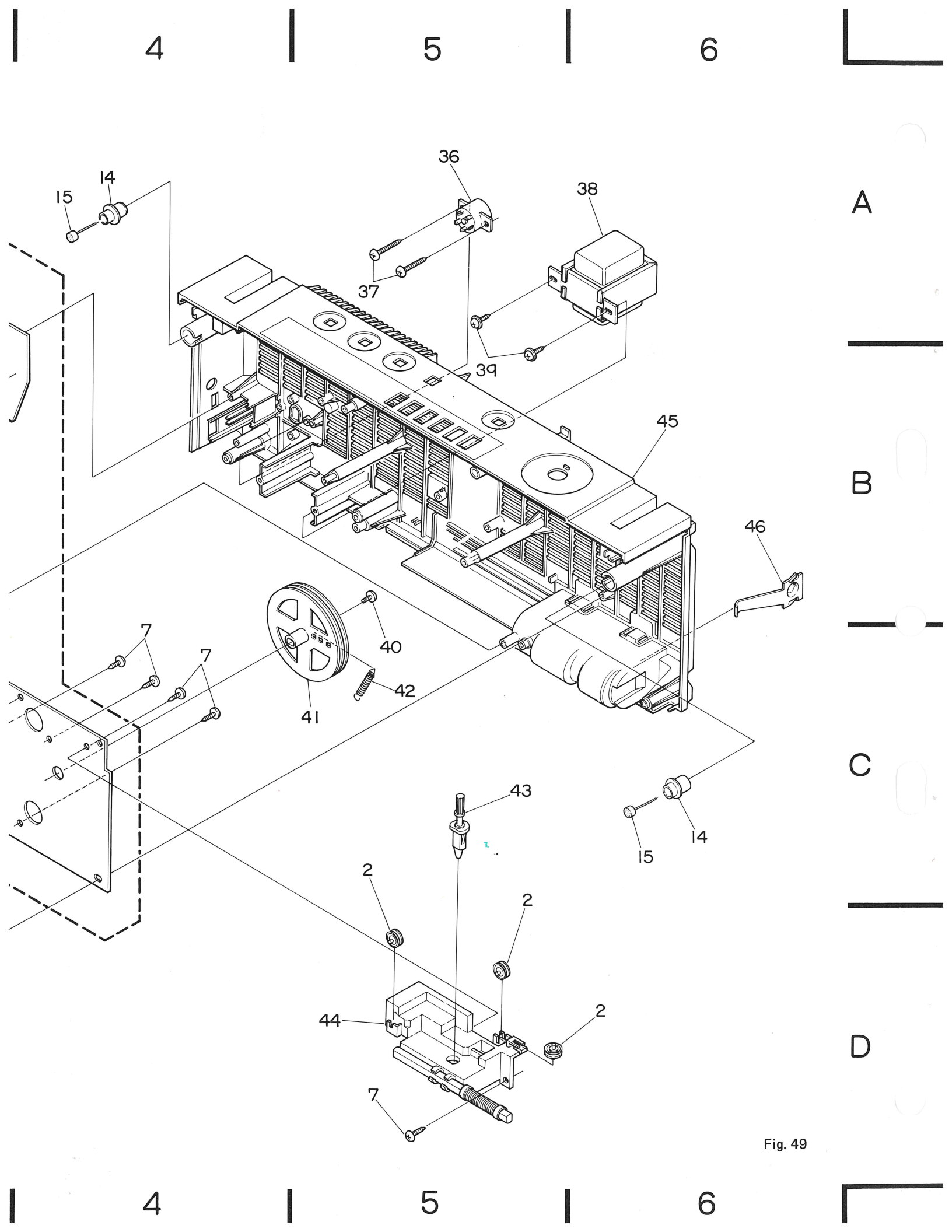


Fig. 49

4

5

6

● Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1.	HAF-120	Pointer	★★	25.	HSH-132	Switch (REC/PB)
	2.	CNV-800	Pulley	★★	26.	HSD-126	Switch (FUNCTION)
	3.		Chassis		27.	BMZ30P080FMC	Screw
	4.	HNX-204	P.C. Board	★★	28.	BA5402A	IC
★	5.	GL-9PR2	LED (Red)		29.	CKS-051	Plug (9P)
★	6.	GL-9NG2	LED (Green)		30.		Heat Sink
	7.	BNC30P100FMC	Screw		31.	HNM-351	Insulating Plate
	8.		Holder	★★	32.	2SC2209	Transistor
	9.	BNC30P080FMC	Screw		33.	CKS-063	Plug (8P)
	10.		Scale		34.	BMZ30P060FMC	Screw
	11.	HXA-777	Pulley Assy		35.	HWX-408	P.C. Board Unit
	12.	HBH-370	Spring	△★★	36.	HSD-128	Switch (Voltage Selector)
	13.	HNC-622	Terminal		37.	BNC30P120FMC	Screw
	14.	HNV-294	Holder	△★	38.	HTT-171	Power Transformer(120V/220V/240V)
★	15.	HPM-137	Microphone Unit		39.	BNM30P120FMC	Screw
	16.	HKN-139	Jack (Phones)		40.	BMZ26P050FMC	Screw
★★	17.	HSH-133	Switch (BFC)		41.	HNV-519	Pulley
△	18.	HKP-107	AC Socket		42.	HBH-368	Spring
	19.	CKS-032	Plug		43.	HNV-475	Tuning Shaft
	20.	HNC-633	Holder		44.	HTX-142	Antenna Unit
★	21.	HCS-155	Volume, 50k Ω (A) (TONE)	★	45.	HNS-563	Rear Case
★	22.	HCS-157	Volume, 100k Ω (W) (BALANCE)		46.	HNC-623	Terminal
★	23.	HCS-158	Volume, 20k Ω (A) (VOLUME)				
★★	24.	HSG-151	Switch (REC MUTE)				

16. PACKING METHOD

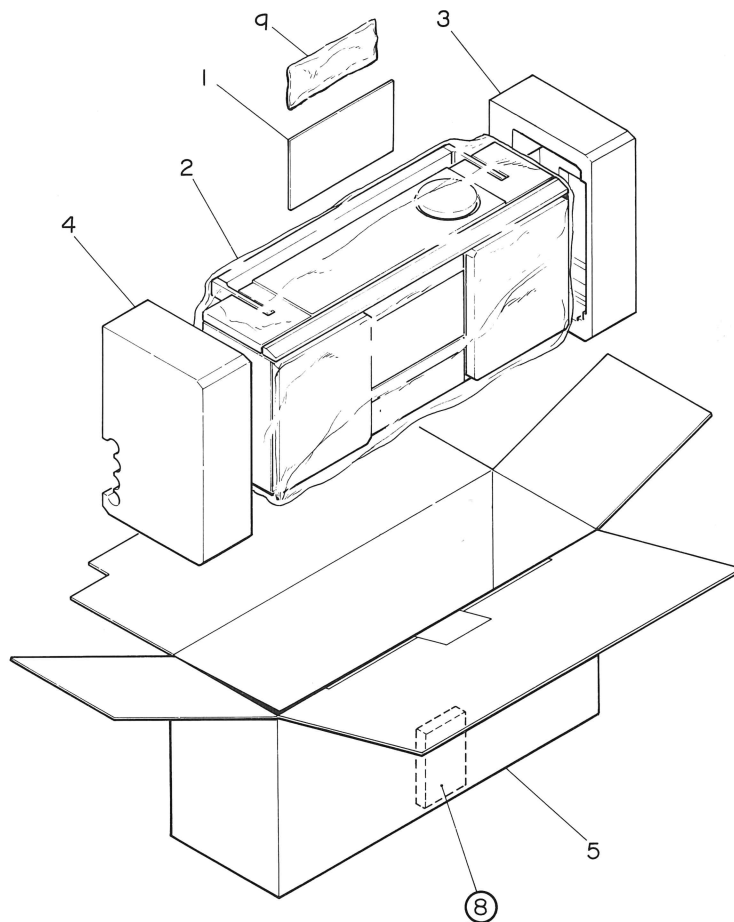


Fig. 50

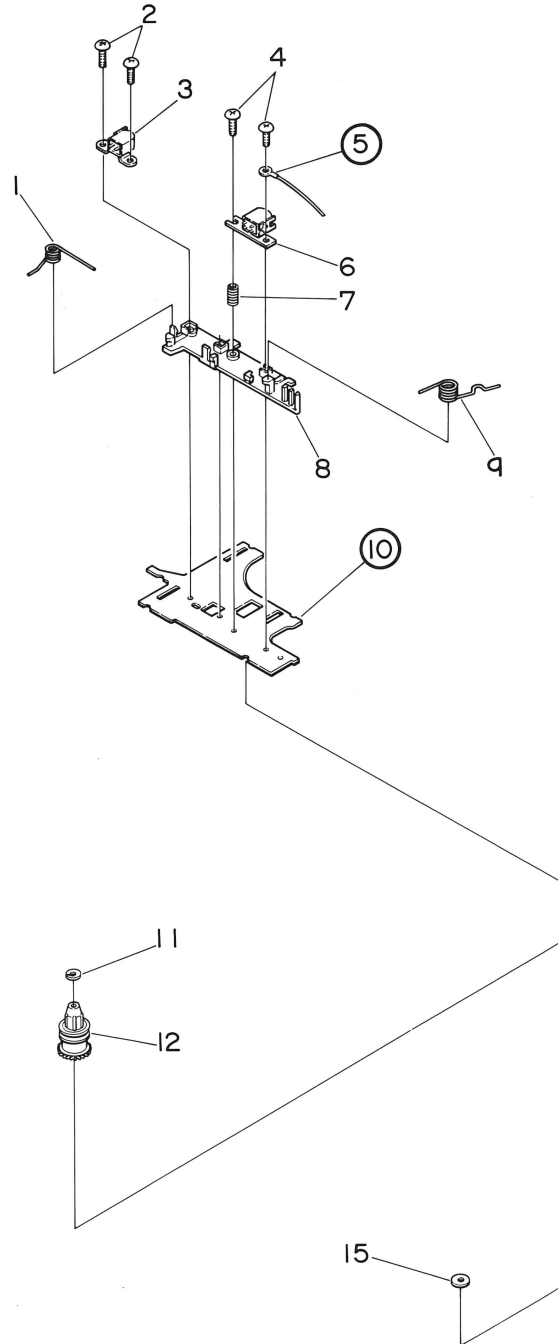
● Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1.	HRB-190	Owner's Manual (SK-350/D, DP) (English)		4.	HHA-633	Styrofoam
		HRD-177	Owner's Manual (SK-350/D) (Spanish, Arabic)		5.	HHA-647	Carton (SK-350/D)
		HRB-188	Owner's Manual (SK-300/D, DP) (English)			HHA-651	Carton (SK-350/DP)
		HRD-176	Owner's Manual (SK-300/D) (Spanish, Arabic)			HHA-645	Carton (SK-300/D)
⚠		HDG-114	AC Cord (SK-350/D, SK-300/D)	⚠		HHA-649	Carton (SK-300/DP)
	2.	HEG-151	Cover		6.	VACANT	
	3.	HHA-634	Styrofoam		7.	VACANT	
					8.		Styrofoam
					9.	HDG-117	AC Cord (SK-350/DP, SK-300/DP)

17. CASSETTE MECHANISM EXPLODED VIEW (TOP)

• Parts List

Mark	No.	Part No.	Description
	1.	HBH-356	Spring
	2.	BMZ20P080FMC	Screw (SK-350)
		BMZ20P090FMC	Screw (SK-300)
★	3.	HPB-351	Head (ERASE) (SK-350)
★		CPB-038	Head (ERASE) (SK-300)
	4.	BMZ20P090FMC	Screw
	5.		Connector
★★	6.	HPB-401	Head (REC/PB) (SK-350)
★★		HPB-114	Head (REC/PB) (SK-300)
	7.	HBH-353	Spring
	8.	HNV-502	Base
	9.	HBH-357	Spring
	10.		Head Plate
	11.	HBF-145	Washer
★★	12.	HXA-852	Reel Unit
★★	13.	HXA-854	Idler Assy
	14.	HBH-361	Spring
	15.	HBF-147	Washer
	16.		Chassis Unit
	17.		Lever
	18.	HBH-378	Spring
	19.	HNV-507	Arm
	20.	YE25FUC	Washer
	21.	HXA-857	Roller Unit
	22.	HNV-527	Arm
	23.	HBH-358	Spring
	24.	BRZ26P060FMC	Screw
	25.	HAW-135	Counter
	26.		Plate
★★	27.	HNT-140	Belt (Counter)
★★	28.	HXA-851	Reel Unit
★★	29.	HXM-151	Motor
	30.	HNV-509	Cushion
	31.	HBA-141	Screw



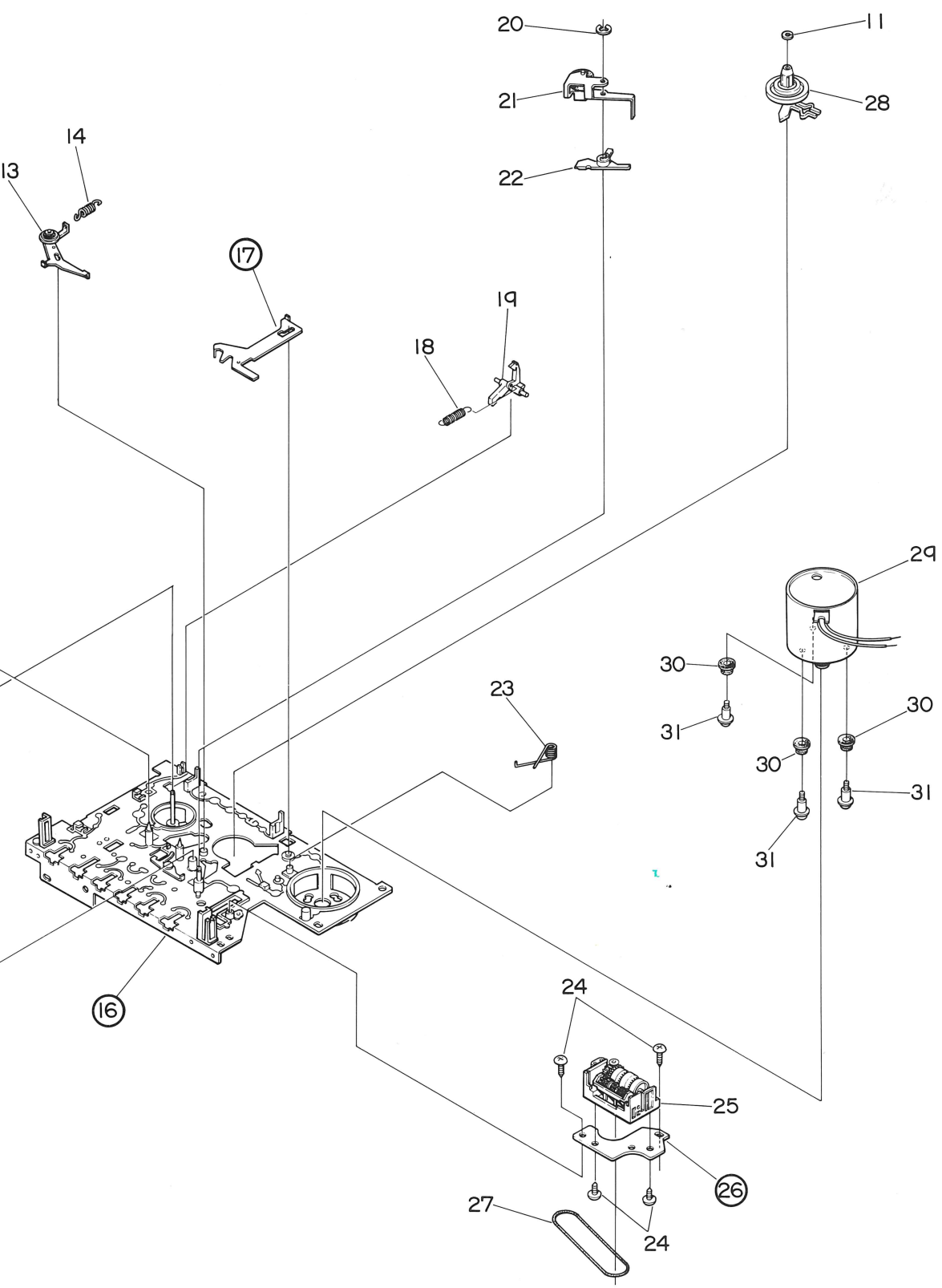
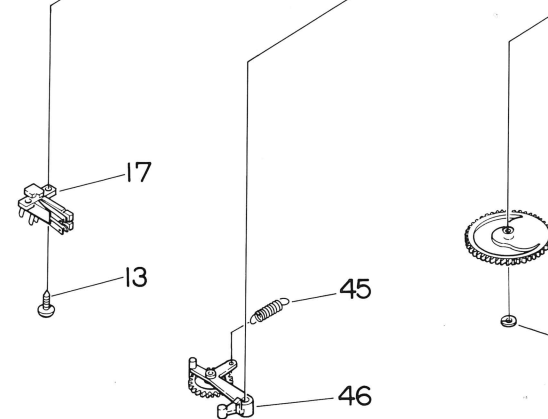
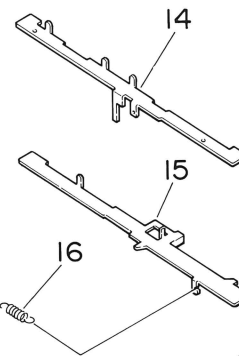
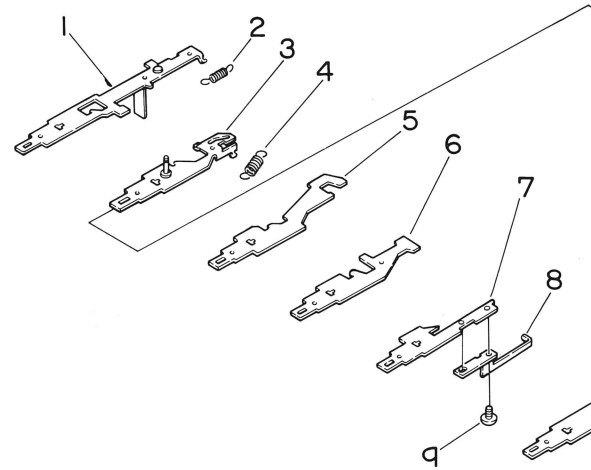


Fig. 51

18. CASSETTE MECHANISM EXPLODED VIEW (BOTTOM)

● Parts List

Mark	No.	Part No.	Description
	1.	HXA-861	Lever Unit
	2.	HBH-367	Spring
	3.	HXA-858	Lever Unit
	4.	HBH-365	Spring
	5.	HNC-595	Lever
	6.	HNC-594	Lever
	7.	HNC-596	Lever
	8.	HBL-165	Spring
	9.	BMZ20P025FMC	Screw
	10.	HXA-859	Lever Unit
	11.	HNC-608	Arm
	12.	HBH-355	Spring
	13.	BRZ26P060FMC	Screw
	14.	HNC-601	Plate
	15.	HNC-602	Plate
	16.	HBH-359	Spring
★★	17.	HSN-133	Switch (FF/REW, Motor Power)
	18.	HNC-604	Arm
	19.	HBH-366	Spring
	20.	HNV-444	Spacer
	21.	HBF-147	Washer
	22.	HNR-155	Flywheel
★★	23.	NNT-137	Belt (Main)
★★	24.	HNT-139	Belt (Sub)
	25.	HXP-105	Solenoid
	26.	HBH-354	Spring
	27.	HNC-605	Arm
	28.		Lag Plate
	29.	BMZ26P040FMC	Screw
	30.		Chassis Unit
	31.	HNV-508	Stopper
	32.	HXA-853	Pulley Unit
	33.	HBH-362	Spring
★★	34.	HNT-138	Belt (Sub)
	35.	HBH-364	Spring
	36.		Plate Unit
	37.	HBL-160	Spring
	38.		Clamper
	39.		Screw
	40.	HNV-503	Pulley
	41.	HBH-360	Spring
	42.	HNV-505	Lever
	43.	HDE-258	Connector
	44.	HDE-257	Connector
	45.	HBH-363	Spring
	46.	HXA-856	Gear Assy
	47.	HNV-504	Gear
	48.	HBF-145	Washer



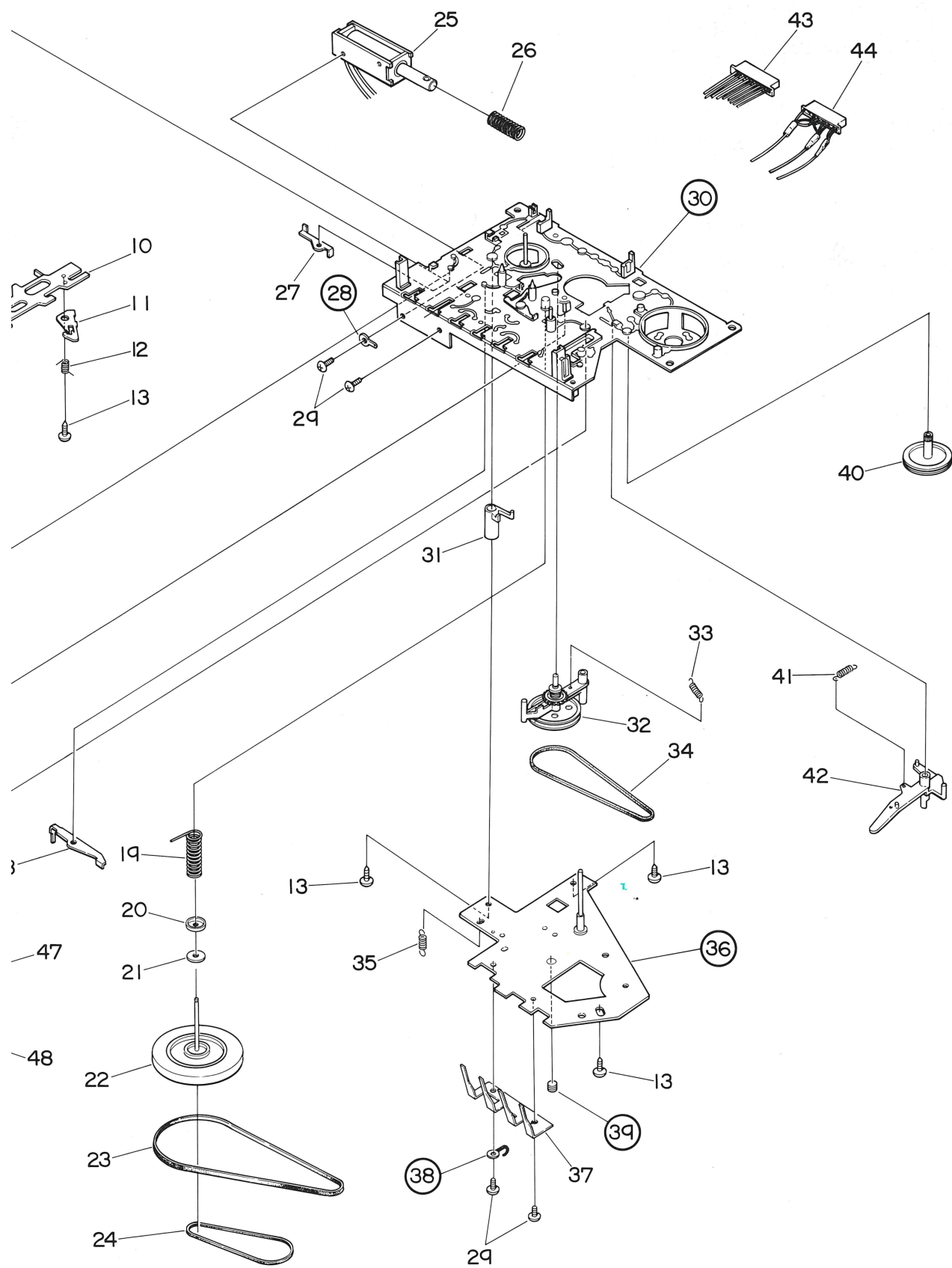


Fig. 52