Service Manual

PIONEER

The photo shows the model SK-750.

ORDER NO.
HRT-183-0

PORTABLE STEREO FM/AM RADIO CASSETTE RECORDER

SK-700 KU, KC

SK-750 KU, KC

SPECIFICATIONS

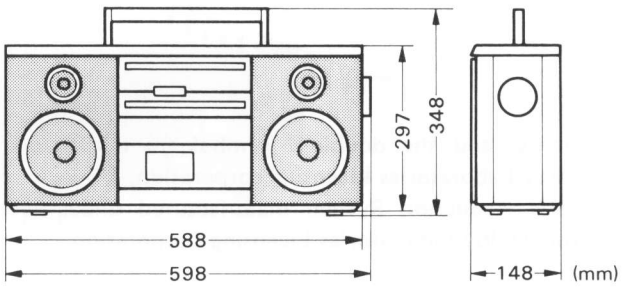
Continuous power output	3W+3W/FTC (3.2Ω, 80~15,000Hz 10% THD.)
Max. music power	23W (total music power)
Speakers	16cm 2-way
Frequency response	Normal tape: 30Hz~14kHz CrO_2 tape: 30Hz~15kHz Metal tape: 30Hz~16kHz
Frequency range	FM: 88~108MHz AM: 525~1,605kHz
Input jacks	MIX MIC, PHONO/AUX, EXT MIC, EXT FM ANT
Output jacks	LINE OUT, EXT SP, PHONES
Power source	120V AC 60Hz, 12V DC (eight 1.5V "D" batteries), EXT 12V DC
Dimensions	588(W) × 297(H) × 148(D) mm (23 1/8 × 11 5/8 × 5 7/8 in)
Weight	7.6kg (16.7 lbs.) without batteries

SK-700

(Subfunctions)	Direct Source Selector (DSS), tape selector (METAL/CrO_2-NORMAL), one-touch music search, semi-automatic record muting, timer standby mechanism, FM muting, microphone mixing
(Indicators)	POWER (red LED), MIC REC (green LED), PHONO/AUX (green LED), TAPE PLAY (green LED), FM (green LED), AM (green LED), REC (red LED), REC PAUSE (red LED), MUSIC SEARCH (green LED × 2), METAL (green LED), CrO_2 (green LED), level meter (5 point red LED), TUNING (green LED), STEREO (red LED)

SK-750

(Subfunctions)	Direct Source Selector (DSS), Dolby NR, tape selector (METAL/CrO_2-NORMAL), auto/manual recording, one-touch music search, music repeat, one side repeat, semi-automatic record muting, timer standby mechanism, FM muting, microphone mixing
(Indicators)	POWER (red LED), Dolby NR (green LED), MIC REC (green LED), PHONO/AUX (green LED), TAPE PLAY (green LED), FM (green LED), AM (green LED), REC (red LED), REC PAUSE (red LED), ONE SIDE REPEAT (green LED), MUSIC REPEAT (green LED), MUSIC SEARCH (green LED × 2), METAL (green LED), CrO_2 (green LED), Level meter (12 points red/green LED × 2), TUNING (green LED), STEREO (red LED)



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

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CONTENTS

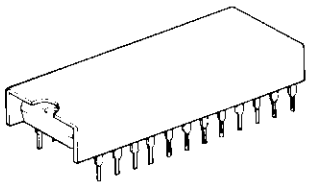
CAUTION

When Handling IC PD1004

Please Observe:

IC PD1004 (IC in the control unit) is a C-MOS IC of extremely low power consumption and very high input impedance. Unless handled with special care, it could be damaged by static electricity induction. This IC is supplied with a shorting, cap (of aluminium foil) attached. When soldering, or performing other repair work, always attach this cap as shown below. Remove the cap after the repair has been completed.

Also, this type of IC must not be inserted in a polystyrene package for storage.



- **'Dolby' and the double-D symbol are trademarks of Dolby Laboratories Licensing corporation.**
- **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.*

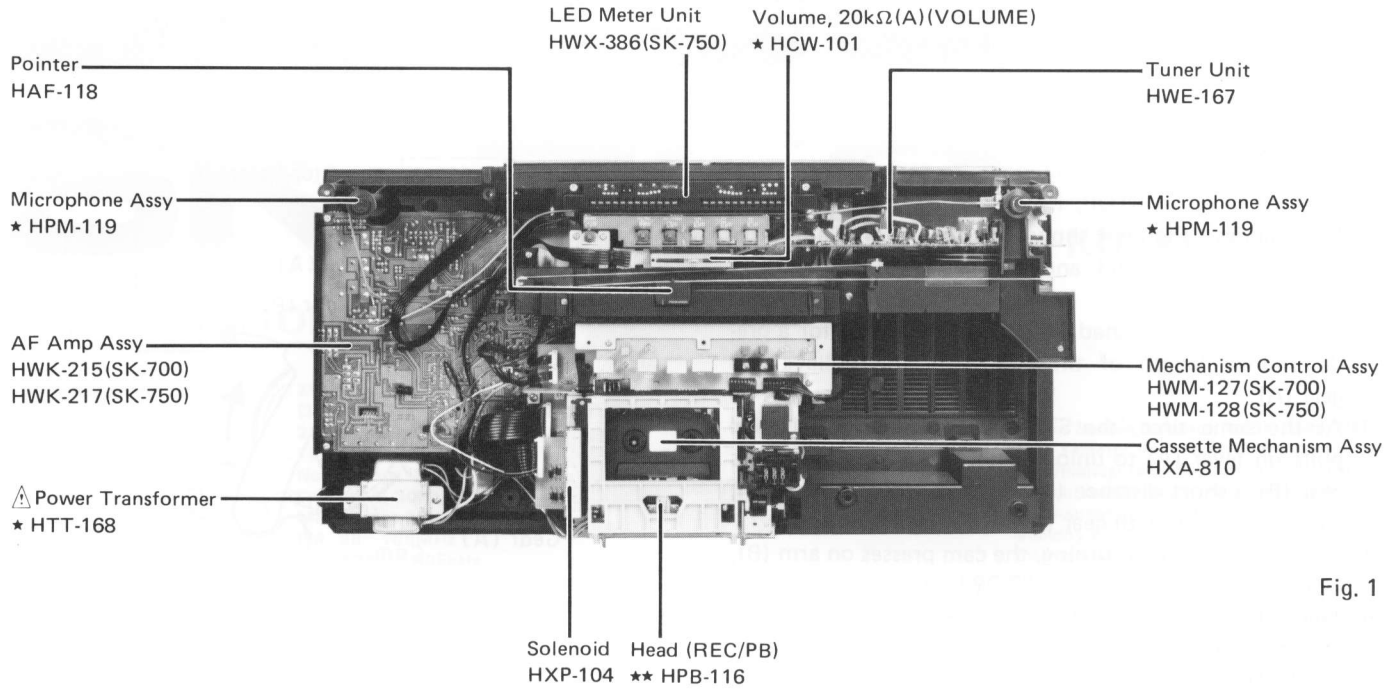


Fig. 1

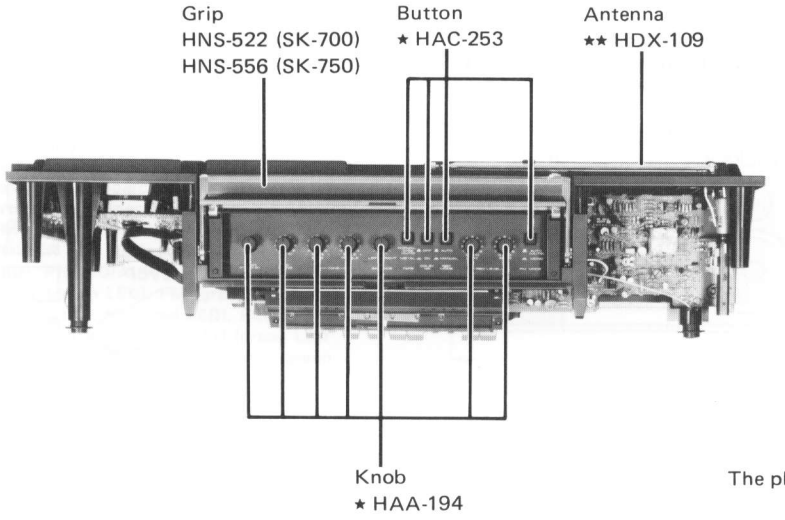


Fig. 2

The photo shows the Model SK-750.

NOTE:
Parts are shipped as an assembly and not as a certain unit within an assembly. Consequently, when undertaking repairs on a unit, replace each part.

2. MECHANISM DESCRIPTION

- **Initialization**

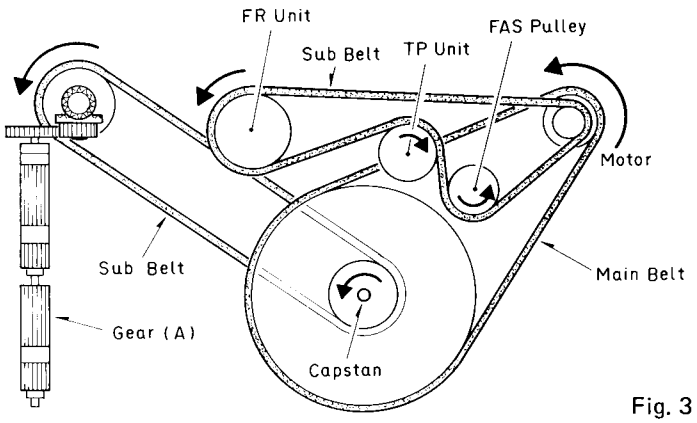


Fig. 3

1. The mechanism uses six solenoids to perform the operations required in STOP, FF, REW, PAUSE, PLAY and REC modes. Figure 4 shows the positional relationship between the solenoid and the gears (STOP mode in this case).
2. When power is switched ON, the motor turns for a predetermined length of time, rotating the pulleys and gear (A).
3. At the same time, the STOP solenoid comes ON and pulls on lever (A) to unlock gear (B). Arm (A) rotates gear (B) a short distance (in the direction of the arrow), where it engages with gear (A).
4. When gear (B) starts turning, the cam presses on arm (B), which in turn presses on the STOP lever.
5. The STOP lever moves the lockplate in the direction of the arrow, releasing the lever locks for PLAY, REC, FF, and REW.
6. Where PAUSE is the mode entered, releasing the PLAY lever causes the pin on the PLAY lever to move the slider underneath the lockplate, and this releases the PAUSE lever lock.
7. After gear (B) rotates thru one full turn, since the solenoid is now OFF, it locks.

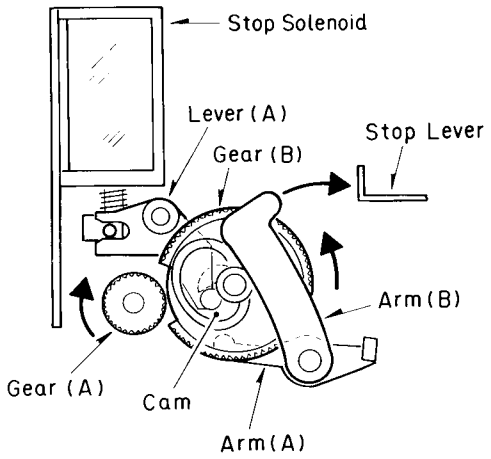


Fig. 4

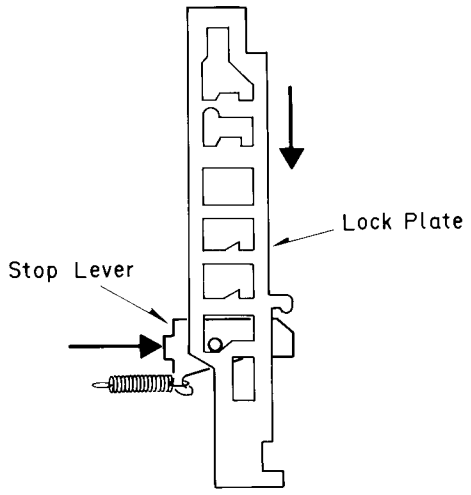


Fig. 5

• Auto Stop Mechanism

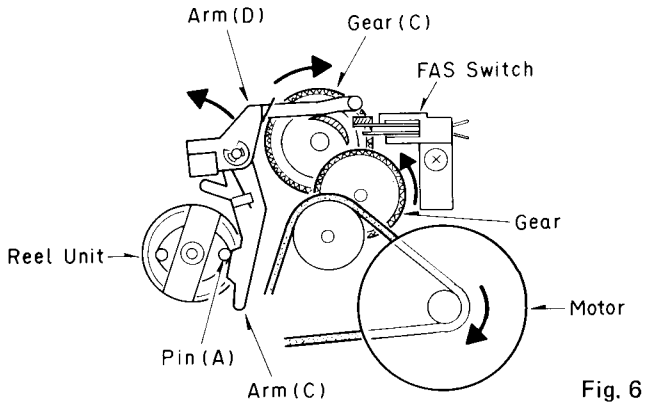


Fig. 6

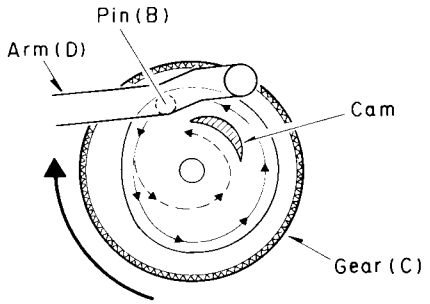


Fig. 7

1. During PLAY, FF, REW, and REC operations, the rotation of the reel unit causes pin (A) to press against arm (C), and the force of the spring pushes arm (D) in the direction of the arrow. Pin (B) on arm (D) moves along the outer periphery of gear (C).
2. When the reel unit stops, arm (D) is freed and pin (B) is drawn toward the center of gear (C). The cam also brings arm (D) inward, turning the FAS switch ON.
3. After the FAS switch has been turned on two (or more) times, the STOP solenoid turns ON and all operations are thus stopped.

• PLAY Operation

1. Pressing the PLAY button starts the motor rotating, and at the same time turns the PLAY solenoid ON. The PLAY lever is pressed by arm (B), and locked by the lockplate (see Fig. 4).
2. The PLAY lever, via arm (E) moves the head mount forward. It also presses against arm (F), which causes the pinch-roller to contact the capstan shaft. Arm (F) is coupled to the TP unit thru arm (G), and the above action causes the TP unit to contact the reel unit, completing PLAY mode entry.

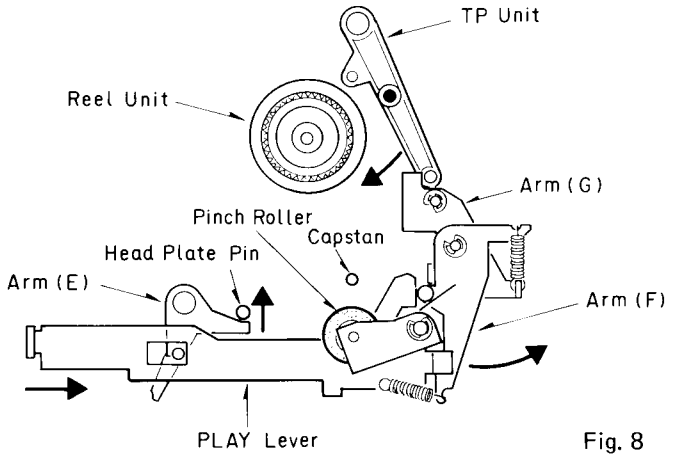


Fig. 8

• Fast-Forward Operation

1. Pressing the FF button starts the motor rotating, and at the same time turns the FF solenoid ON. The FF lever is pressed by arm (B), and locked by the lockplate (see Fig. 4).
2. The action of the FF lever causes the FF gear to contact the FR unit and reel unit. Through coupling with arms (H) and (I), it also advances the head mount to the blank (between selection) detection position.

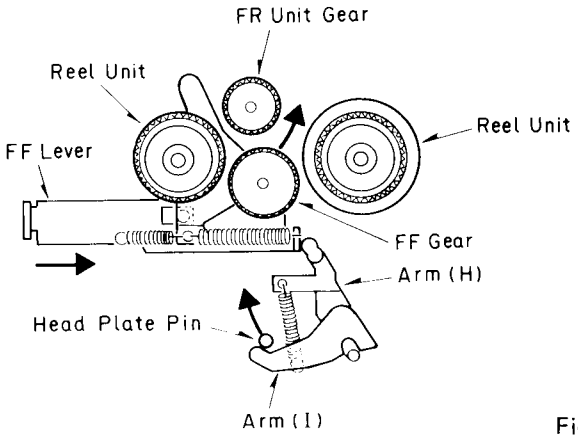


Fig. 9

• REW Operation

1. Pressing the REW button starts the motor rotating, and at the same time turns the REW solenoid ON. This causes the REW lever to be pressed by arm (B) and locked by the lockplate (see Fig. 4).
2. The REW lever moves arm (J) coupled to the FR unit. The FR unit thus is forced into contact with the reel unit. Through coupling with arms (H) and (I), the REW lever also advances the head mount to the blank detection position.

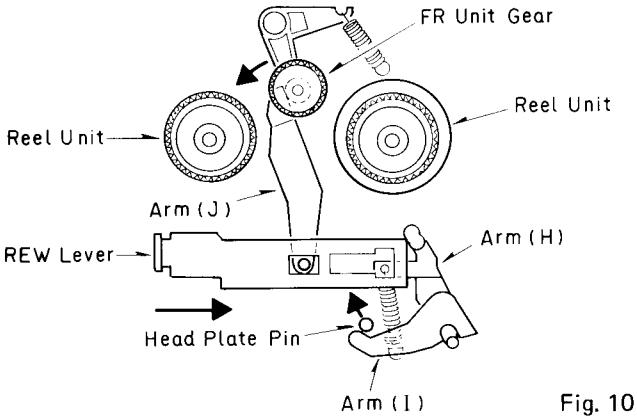


Fig. 10

• REC Operation

1. Pressing the REC button starts the motor rotating, and at the same time turns the REC solenoid ON. The REC lever is then pressed by arm (B) (see Fig. 4). At the same time, the REC lever presses the PLAY lever, and both levers are engaged by the lockplate.
2. The REC lever, via the REC arm places the REC/PB switch on the AF amp unit to the REC side. All other operations are the same as the PLAY mode.

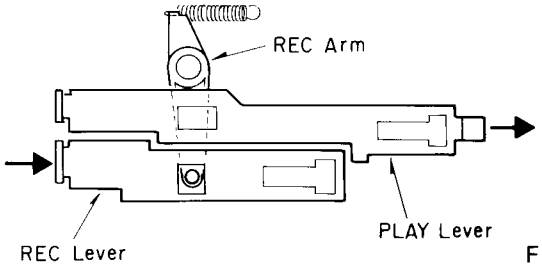


Fig. 11

• REC PAUSE Operation

1. Pressing the REC PAUSE button in the STOP mode enters the RECORD and PAUSE mode. Pressing it from a REC mode turns the PAUSE solenoid ON. The following description will apply to pressing it from the REC mode.
2. The PAUSE lever is pressed by arm (B) and engaged by the slider.
3. The action of the PAUSE lever, via arm (G) releases the TP unit from the reel unit, and breaks contact between the pinch-roller and capstan shaft, stopping tape travel. The auto stop pin (Fig. 6, arm (C)) is locked in a depressed position, preventing Auto Stop from working.

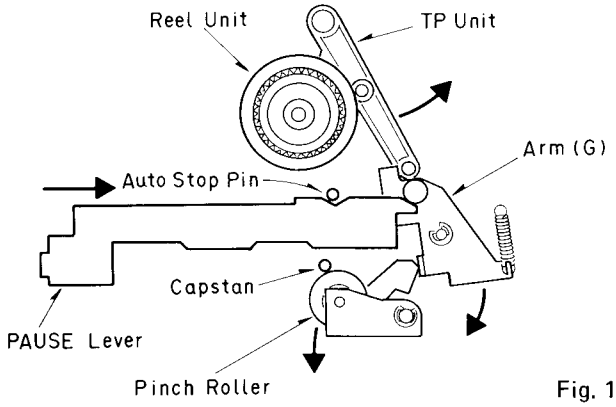


Fig. 12

• STOP Operation

1. Pressing the STOP button turns the STOP solenoid ON. Mechanism operations are the same as at initialization.

• Switching From REC PAUSE to REC, FF, or REW Mode

1. When the REC button is pressed from the REC PAUSE mode, the PLAY solenoid is turned ON, and the PLAY arm (Fig. 4, arm (B)) presses the slider at the point of the arrow. This causes the slider to move upward, releasing only the PAUSE lever lock and entering the REC mode.
2. When the FF or REW switch is pressed from the REC PAUSE mode, the pause lever lock is released as described above. This time however, the FF or REW lever moves the lockplate downward to release the REC and PLAY lever locks, entering the FF or REW mode.

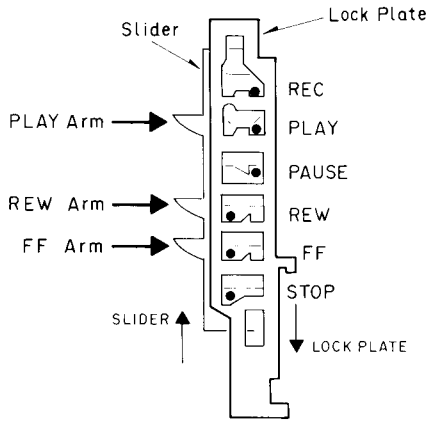


Fig. 13

• EJECT Switch

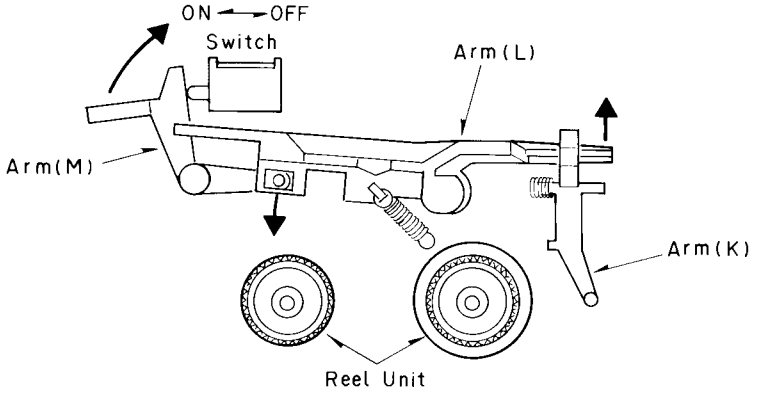


Fig. 14

1. When the cassette is loaded, pressure on arm (K) causes arm (L) to be unlocked. Arm (L) moves in the direction of the arrow, causing arm (M) to also move in the direction of the switch and turn it OFF.
2. When EJECT is pressed to remove the cassette, arm (M) (Via the EJECT Lever) moves away from the switch, turning it ON.

• Switch Operations

1. Switch S1-1 is turned ON/OFF by the STOP lever. During STOP operations it is ON, and goes OFF when operations are completed.
2. Switch S1-2 is turned ON/OFF by the PAUSE lever. During PAUSE switching operations it is ON, and goes OFF when switching operations are completed.
3. Switch S2 is turned ON/OFF by the slider. During PLAY, FF, REW, and REC switching operations it is ON, and goes OFF when switching operations are completed.

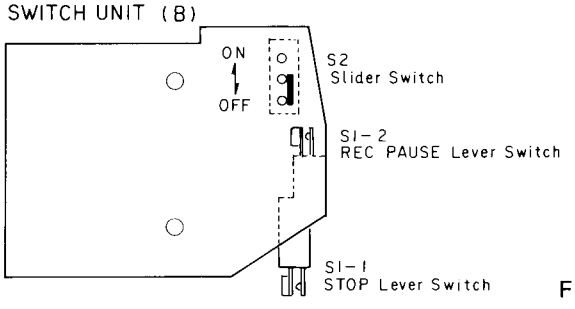


Fig. 15

3. CIRCUIT DESCRIPTION

3.1 TUNER SECTION

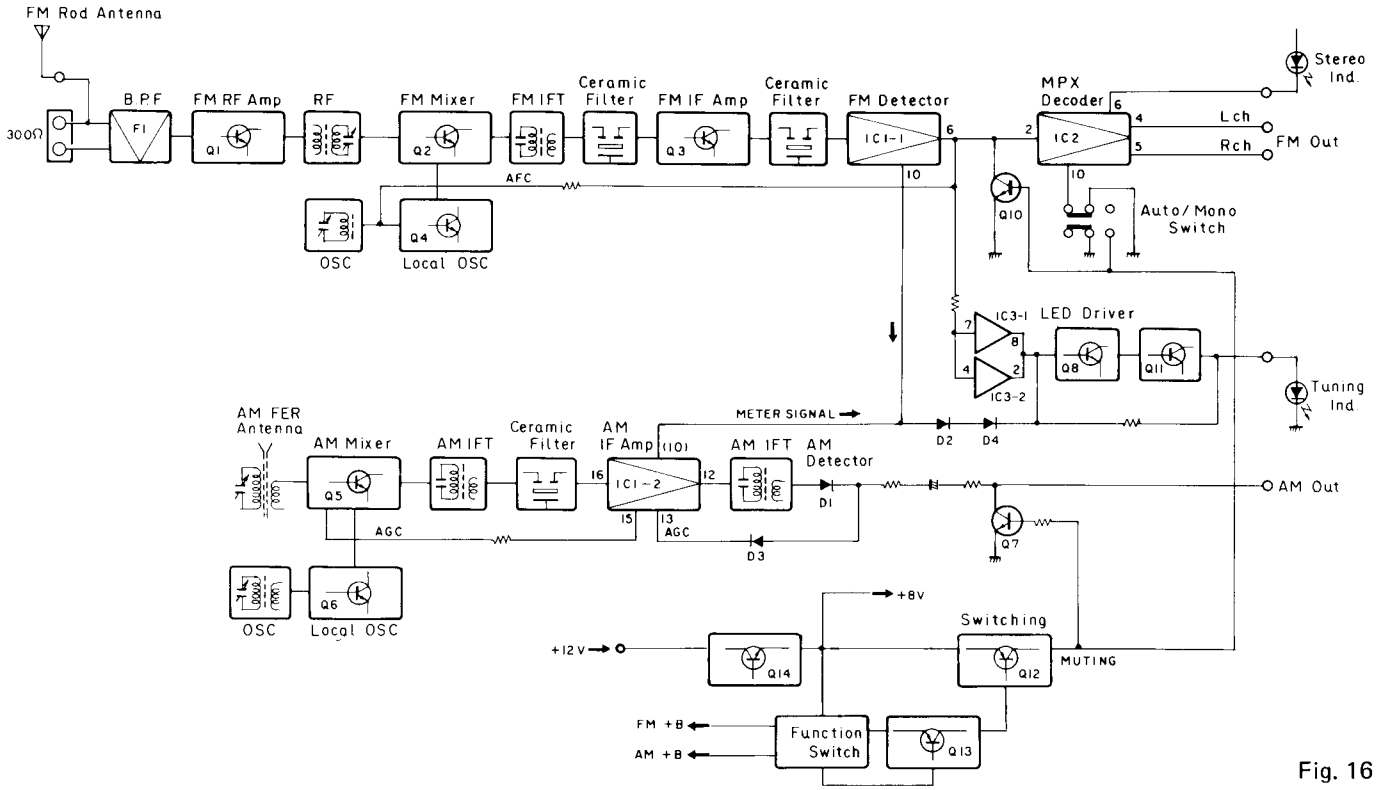


Fig. 16

• Front End

The antenna input section consists of a band-pass filtered single stage RF amplifier (Q1), a base injection mixer (Q2), and a modified Colpitts local oscillator circuit.

• IF Amp, Detector Circuit

This section is contained in the FM (AM) IF System IC (LA1140) and consists of the FM IF amp, two double-element ceramic filters, the preamp consisting of transistor Q3. Together they form a four-stage differential amplifier. KB4419C functions as an IF amplifier, limiter, and as a quandrature detector.

• FM Muting Circuit

Output level is detected at the meter output pin (pin 10) of KB4419C by AN6913 (IC3). When a detuned status is detected, the signal is passed through AND gates and used to activate the muting transistor (Q10).

• FM Multiplex Circuit

The FM multiplex circuit uses a PLL multiplex IC (KB4424B).

• Tuning Indicator Circuit

During FM operations, tuning a station causes a rise in the voltage present at the pin 10 of IC1 (KB4419C). Since this turns Q8 ON and Q11 OFF, current begins to flow from R65 to D8, lighting the tuning indicator.

Next, moving the tuning dial pointer to a point near the station, but lower on the frequency scale will cause one of the comparators of IC3 to gate, dropping the potential at the base of Q8 and turning it OFF. This causes Q11 to turn On and the tuning indicator will not light. If the pointer is moved near the tuned point, but higher on the frequency scale, the opposite comparator (IC3) will gate, preventing the tuning indicator form lighting as explained above.

Additionally, in a frequency area where no stations exist, or where the incoming signal is so weak that the S/N ratio is unacceptable, Q8 will be OFF and Q11 will be ON, and the tuning indicator will remain extinguished.

The above operations apply when FM muting is activated, and they are synchronized with muting operations.

During AM operations, +B is applied to IC3 and indicator operations are in accordance with the voltage at pin 10 of KB4419C.

3.2 DECK CONTROL SIGNAL SECTION

• Basic Operations

The cassette deck mechanism uses switches (S1-1, S1-2, S2) to detect mode switching operations. Pressing the keys to switch modes turn the switches ON/OFF. The list below shows the switch-mode status.

S1-1 (STOP lever switch) . . . . . STOP
S1-2 (REC PAUSE switch) . . . . PAUSE
S2 (SLIDER SWITCH). . . . . PLAY, REC, FF, REW

PLAY mode operations will be used as an example to describe the role the switches play. The relationship between the solenoid and switches at PLAY key entry is shown is Fig. 17.

A . . . . PLAY key entry turns the solenoid ON, and starts the mechanism mode switching operation.

B . . . . Next, S2 is turned ON, and it functions to detect the proper switching operation (PLAY mode in this case), and this turns the solenoid OFF.

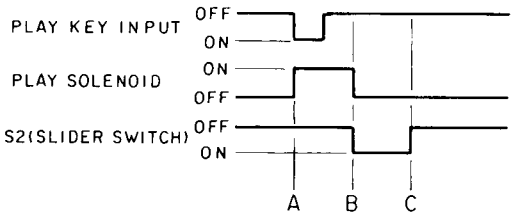


Fig. 17

C . . . . After mode switching operations are completed, switch S2 turns OFF.

During the A-C interval, other key entries are inhibited. (However, STOP is effective any time, and switching from REC to REC PAUSE is only inhibited between A and B.)

From a STOP status, a key entry turns the motor on at A, and pressing STOP will turn the motor off at C.

• Tape End Detector Circuit

The cassette mechanism's tape end detector switch (FAS swtich) also comes ON at times other that at the end of the tape, so PD1004 is designed to recognize the end of the tape as the second time this switch is turned ON. The second time means the second time within the same operational mode; if the mode is changed somewhere before the end of the tape, the switch will have to come ON twice in that mode before the end of the tape is recognized. If the switch is turned ON during a mode switching operation, it will be ignored.

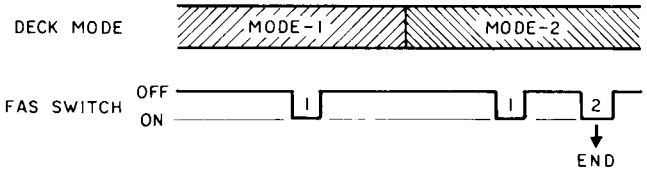


Fig. 18

• Muting Output

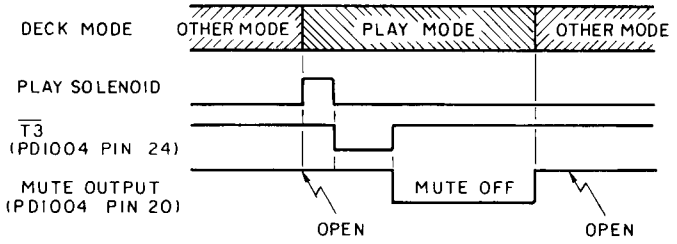


Fig. 19

Muting is output from pin 20 of IC PD1004, and during the tape PLAY mode, is only lifted (dropping low) at the point shown in Fig. 19. All other circumstances hold the output circuit open.

• POWER ON STOP

When the power is turned ON, the deck mechanism will go through one STOP operation (after initial reset) and be placed in a STOP status no matter what the previous mode setting was. The signals for this operation are processed by IC PD1004, with output being the same as for normal STOP key entry.

• Timer Standby Circuit

The timer standby circuit is configured within IC PD1004. The $\overline{TM}$ signal is transmitted from pin 33 and is passed through the timer standby switch and connected to the PLAY/REC entry input of PD1004. The conventional differential pulse (CR) requirement is eliminated, so the curcuit consists of only wiring and the switch.

1. When the timer standby switch is set for REC or PLAY, the $\overline{TM}$ output is pulled low during the initial reset occurring immediately after power is turned ON, and this causes the key input from REC or PLAY to also be low. ($\overline{TM}$ output is n-channel open drain.) When the reset status is released, PD1004 goes through a POWER ON STOP operation, and after that operation is completed, the REC or PLAY entry is accepted and the respective mode set. Switch S2 (slider switch) comes on to detect the switching operations into the REC or PLAY mode, and this cuts off the n-channel TR ($\overline{TM}$ output pin) with the resulting open status allowing the REC (PLAY) input to go from low to high. This operation occurs once at power ON.
2. When the timer standy switch is OFF at the time power is turned ON, neither REC or PLAY inputs are present at the point initial reset is completed, so the $\overline{TM}$ output pin immediately goes from low to open and will not go low again. In this case, only the POWER ON STOP operation will be performed.
3. Timer standby at EJECT . . . . . When the timer standby switch is set to REC or PLAY and the cassette is ejected, the EJECT switch cuts Q2 (control unit) OFF and this breaks the path between the timer standby switch and $\overline{TM}$ output. Thus, timer operation is stopped as described in 2. above.

• SOL (Solenoid) Output Circuit

The cassette mechanism mode switching operations are accomplished using the motor as a drive source. This subjects the motor to quite a heavy load during these operations. Consequently, if battery conditions have dropped the source voltage to a level that will barely sustain motor operations and solenoid operation were simultaneously added to that load, the motor would likely stop during mode switching operations. To prevent this from happening, voltage limitations are placed on solenoid operations. The SOL output circuit prevents the solenoids from operating when the power source voltage has dropped below the value required for motor operation. A basic description of the circuit is presented here. (Refer to Fig. 20)

Normally the capacitor C is charged through R to the same potential that exists at point A. When the solenoid driver comes ON, current flows through R to the solenoid, but since the resistance restricts the flow of current to a level insufficient for solenoid operation, it must be supplemented by discharge current from C.

When the potential at point A drops to the lower limit

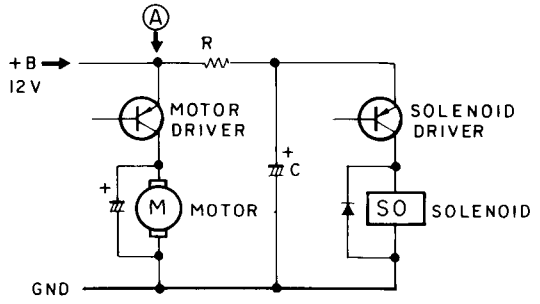


Fig. 20

for motor operations, the voltage supplied to the solenoid is insufficient for operation, and by using the proper resistance value for R, can be stopped there without interfering with motor operation.

In the actual circuit, the STOP solenoid is designed to operate at a lower voltage, so it is not connected to this circuit. Also, since the REC solenoid and PAUSE solenoid can come ON at the same time (REC PAUSE), they too use a separate circuit.

• Fail-Safe Circuit

When low source voltage or some other problem with the deck mechanism prevents the solenoids from operating, or if the mode switching detector switch fails to operate, the system shuts down to prevent current flow from continuing to the solenoid. If approximately 3 seconds after the solenoid has come on, and switch $\overline{T1}$–$\overline{T3}$ have not come ON, PD1004 goes inoperable and all outputs are disabled. Also, no inputs except $\overline{RST}$ will be accepted.

The amount of time prior to activation of the fail-safe circuit is determined by the tank circuit (C5, R27) connected to the TC pin (pin 21). The TC pin is the output from an n-channel open-drain transistor with a hysteresis gate input with output normally pulled low when ON. When a key entry produces solenoid output, the TR goes OFF and the open TC pin allows C5 to start charging through R27. Consequently, TC pin voltage rises with the time constant of R27, C5, but if one of the mode switching detector switches ($\overline{T1}$–$\overline{T3}$) comes ON prior to reaching the high level threshold of the hysteresis gate (within the IC), the n-channel TR is turned back ON, and the charge of C5 quickly passes back through R31 dropping the voltage level at the TC pin and disabling the fail-safe circuit.

If a malfunction prevents switches $\overline{T1}$–$\overline{T3}$ from coming ON after solenoid operation, TC pin voltage will exceed the high threshold of the hysteresis gate within the IC, causing the fail-safe circuit to operate and cut all outputs OFF.

For the IC to start operating again, the $\overline{RST}$ pin will have to receive a low input, followed by a high. In other words, power will have to be turned OFF, then back ON.

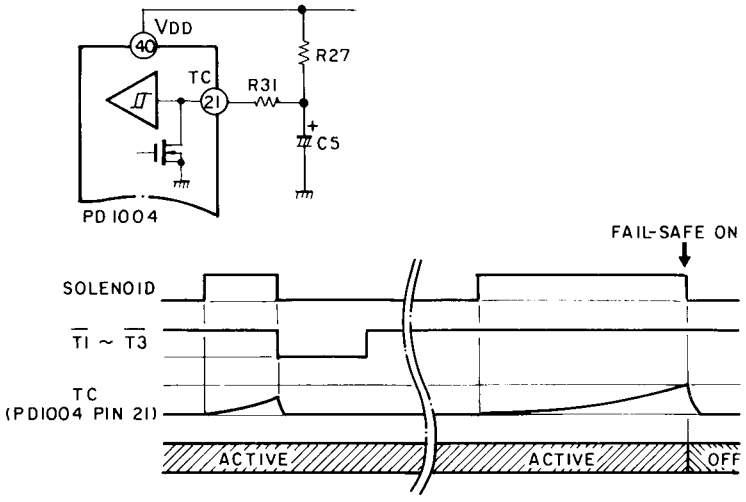


Fig. 21

• Initial Reset

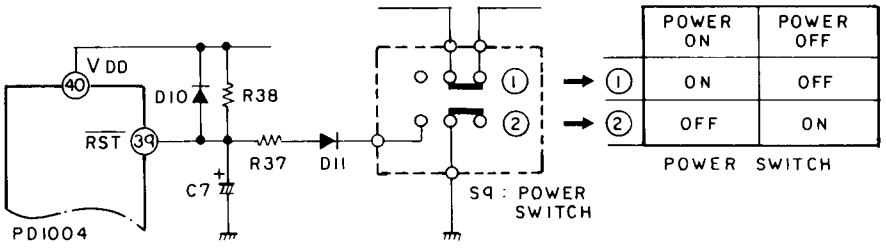


Fig. 22

Initial reset is connected to the power switch through both R38, C7 and R37, D11. When the power is turned ON, the level will be held low for the charging time of R38, C7 and all contents of IC PD1004 are cleared. When the power is turned OFF, the power switch allows the charge of C7 to quickly pass to ground through R37 and D11, making reset an extremely quick and error free operation.

• IC PD1004 Pin Description

Pin No.	Symbol	Function
1	$\overline{X6}$	Key input.
≀		
6	$\overline{X11}$	
7	DFF	Indicator output.
|		
13	DPL	
14	$\overline{RI}$	REC inhibit switch input pin. REC or REC PAUSE key entry inhibited low.
15	$\overline{EJ}$	EJECT switch input. NC.
16	$\overline{TP}$	TAPE function switch input. TAPE mode low.
17	$\overline{DMS}$	FF MS, REW MS indicator output (open drain) MS mode low.
18	VSS	
19	MS	Blank detector pulse input (Music Search).
20	MU	Muting signal output. Muting lifted only in PLAY. Open drain output effective low.
21	TC	Fail-safe pin. Activation time determined by external CR circuit.
22	$\overline{T1}$	STOP operation switch input. Switch ON low.
23	$\overline{T2}$	PAUSE operation switch input. Switch ON low.
24	$\overline{T3}$	PLAY, REC, FF, REW operation switch input. Switch ON low.
25	$\overline{ED}$	Tape end detector switch input. 2nd tape end detection pulse determines end of tape.

Pin NO.	Symbol	Function
26	$\overline{SST}$	Solenoid output.
≀		
31	SRC	
32	MT	Motor output.
33	$\overline{TM}$	Timer output. Connected to timer standby switch via PLAY and REC key input. Open drain.
34	$\overline{X1}$	Key input.
≀		
38	$\overline{X5}$	
39	$\overline{RST}$	Initial reset input pin.
40	VDD	

3.3 BLOCK DIAGRAM-LEVEL DIAGRAM

NOTE:
The SK-750 is shown here for illustration purposes. The SK-700 does not include the Dolby NR circuit, ALC/MANUAL switch or MANUAL REC circuit.

- **PLAY Mode**

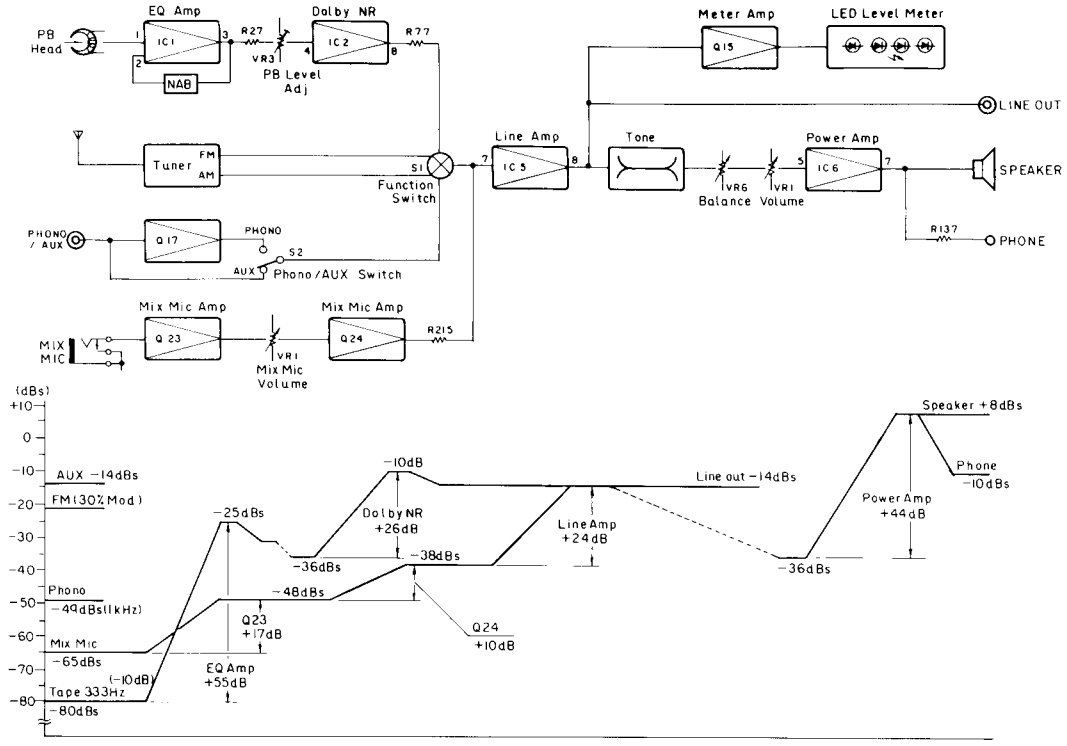


Fig. 23

- **RECORD Mode**

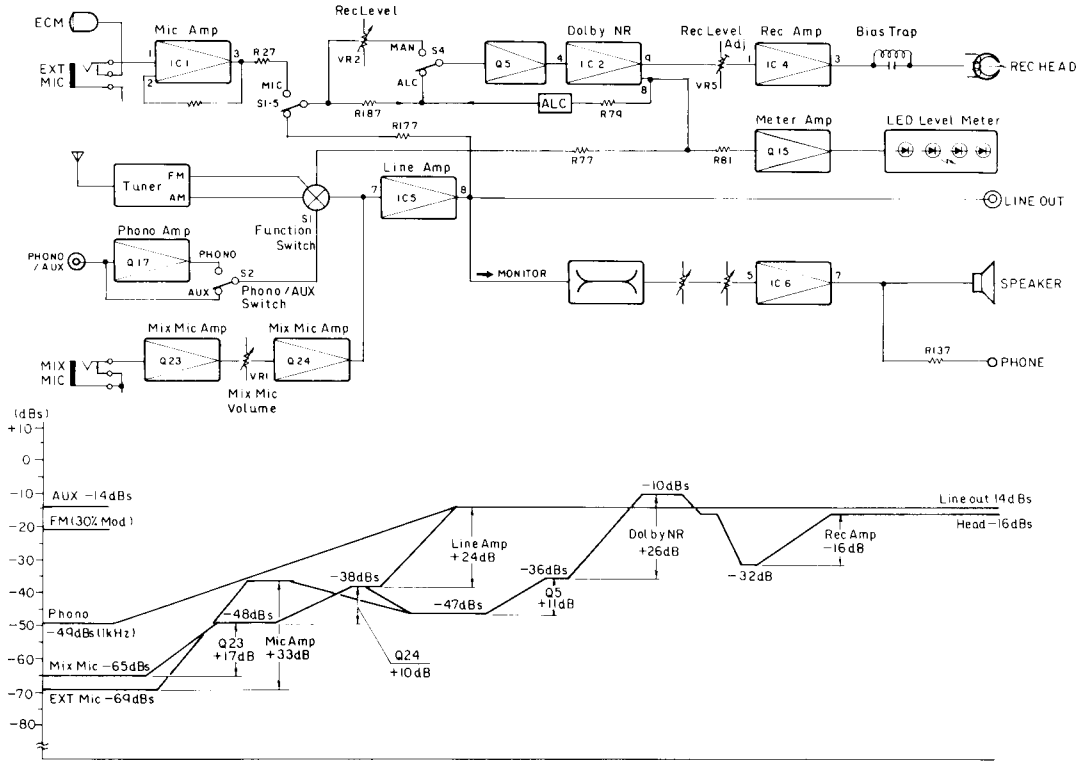


Fig. 24

4. DISASSEMBLY

- **Removing the Rod antenna**

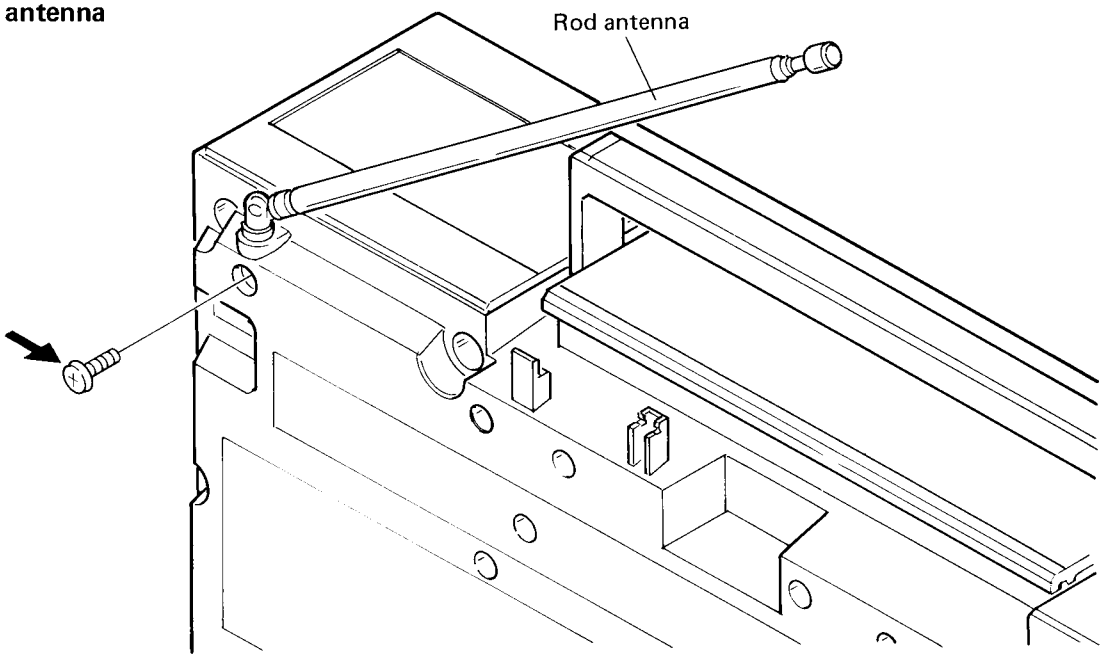


Fig. 25

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 yor.

- **Removing the Front Case**

1. Remove the battery compartment cover, and remove the eight screws from the back of the unit.

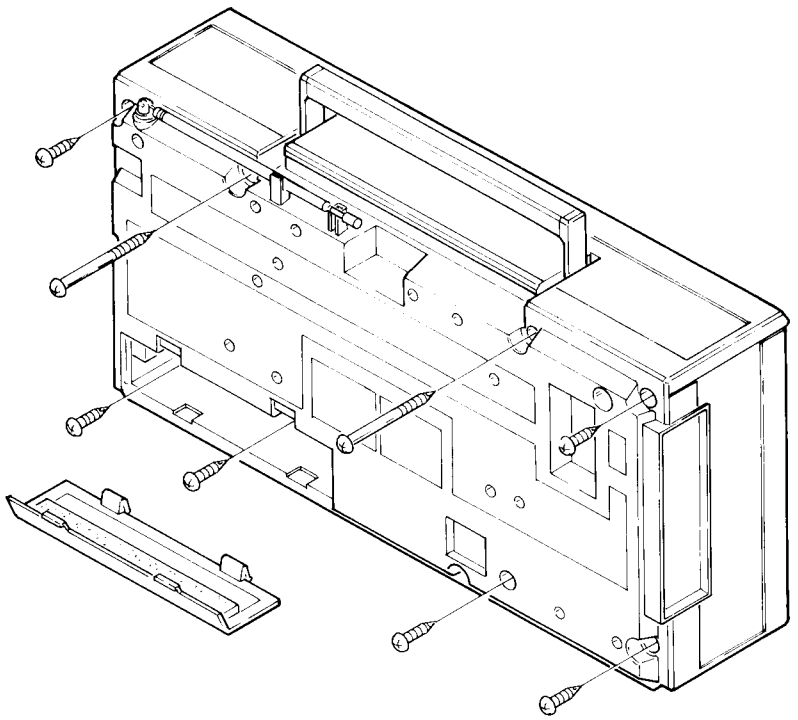


Fig. 26

2. Remove the door unit.
3. Remove the two screws indicated and take off the keyboard panel.

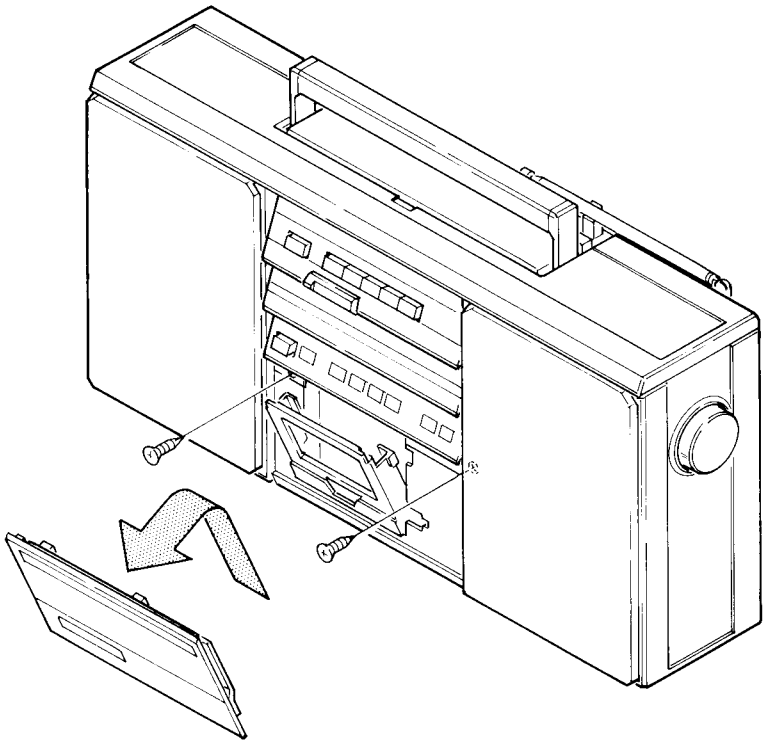


Fig. 27

4. Remove the tuning knob and the three screws indicated.
5. As the front case is being separated from the unit, disconnect the volume unit and speaker connectors.
6. When the volume unit is reinstalled on the front case, make sure that the lever is lined up with the groove on the knob.

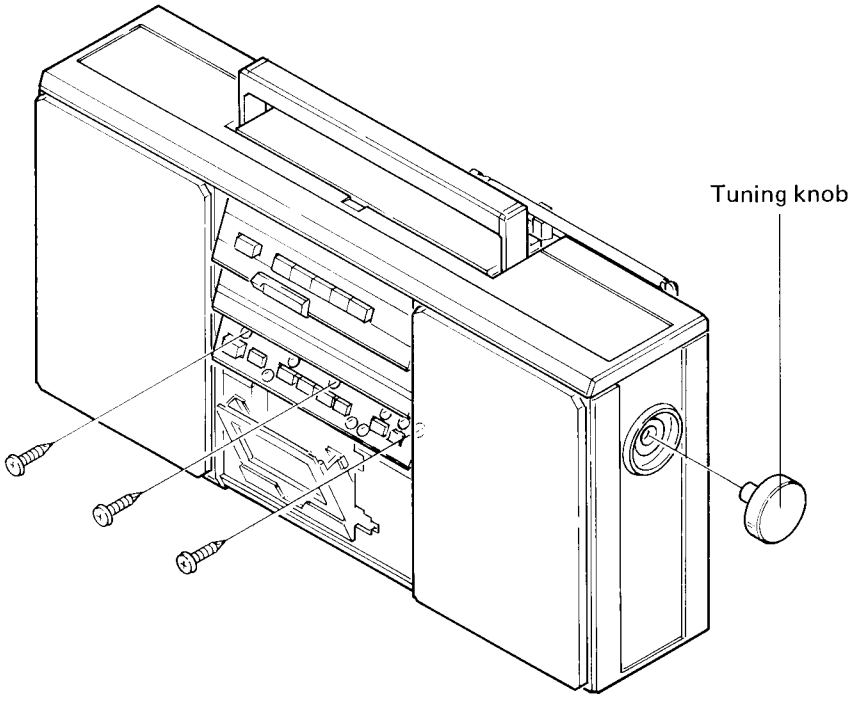


Fig. 28

• Removing the Mechanism Assembly

1. Removing the four screws indicated releases the complete mechanism.

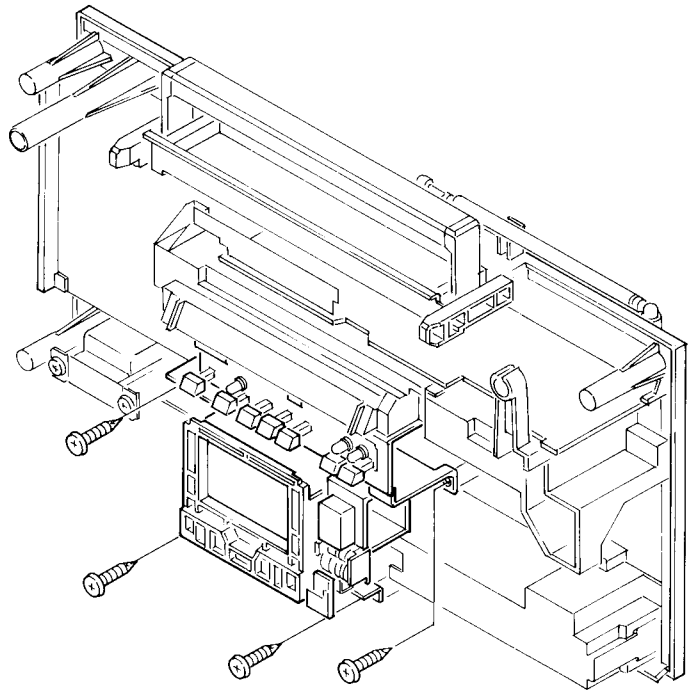


Fig. 29

• Removing the Tuner Section

1. Removing the four screws and disconnecting the antenna connector releases the complete section.

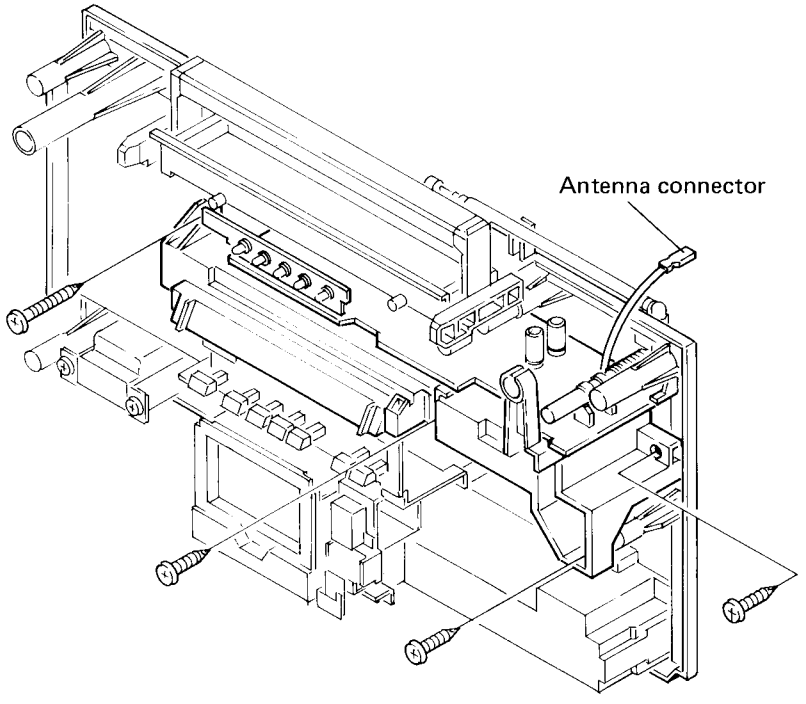


Fig. 30

• Removing the Top Door

1. The top door may be removed by opening fully and pulling straight up.

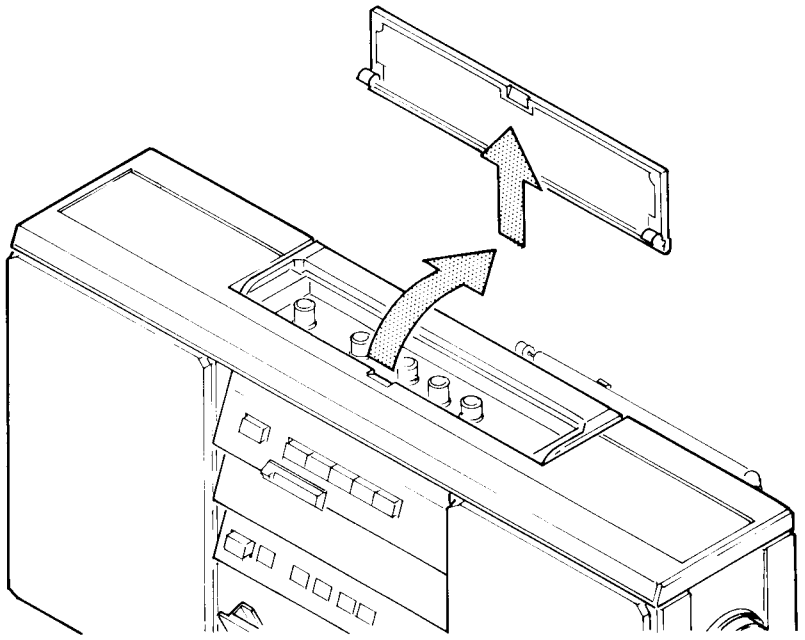


Fig. 31

• Removing the Connector

1. Open the connector lock as shown by arrow 1 and unplug the flat cable. Reverse the procedure to reconnect.

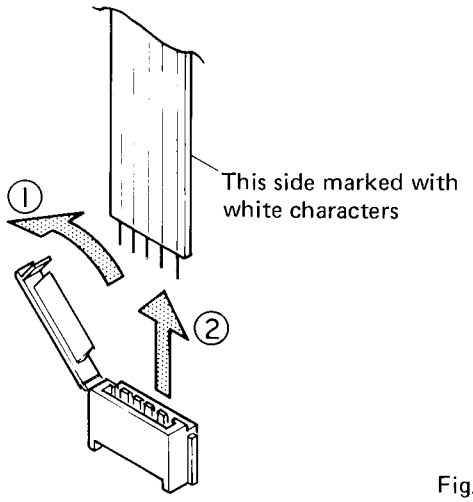


Fig. 32

NOTE:
The side of the cable with white lettering always goes in the direction indicated in the diagram.

• Replacing the LED Meter (SK-750)

CAUTION:
When replacing the LED meter, do not touch the LEDs or associated wiring. This can cause the meter to malfunction.

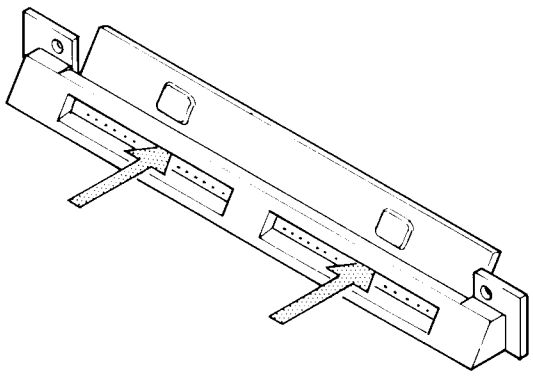
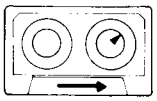
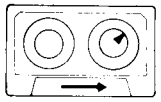
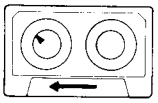
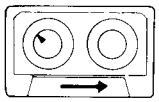
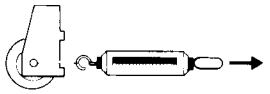


Fig. 33

5. ADJUSTMENT

5.1 CHECK POINTS OF CASSETTE MECHANISM

Confirm the following items when replacing parts of the cassette mechanism.	■ Tape speed deviation: 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. Measureing time shall be 5 ~ 6 seconds.	■ Wow and flutter: Less than 0.25% (RMS) Less than 0.09% (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.
■ Fast forward and rewinding time: **Less than 130 seconds** Using an C-60, set to fast forward and rewind, and measure the time with a stop watch.	■ Winding torque: **38 ~ 58 g.cm**  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.	■ F.F. torque: **85 ~ 150 g.cm**  Using a cassette type torque meter (160 g.cm), measure the value when the tape stops in the F.F. mode.
■ REW torque: **85 ~ 150 g.cm**  Using a cassette type torque meter (160 g.cm), measure the value when the tape stops in the REW mode.	■ Back tension torque: **2 ~ 5 g.cm**  After setting in the REW mode wihtout loading a cassette tape for 5 minutes, measure the back tension torque in the play mode, using a cassette type torque meter.	■ Pinch roller pressure: **230 ~ 290 g**  Measure the pressure with a tension meter (1 kg) at the point where the rotor stops rotating at the center of the pinch roller.
■ 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 BIAS TRAP ADJUSTMENT (SK-700)

- **Connection Diagram**

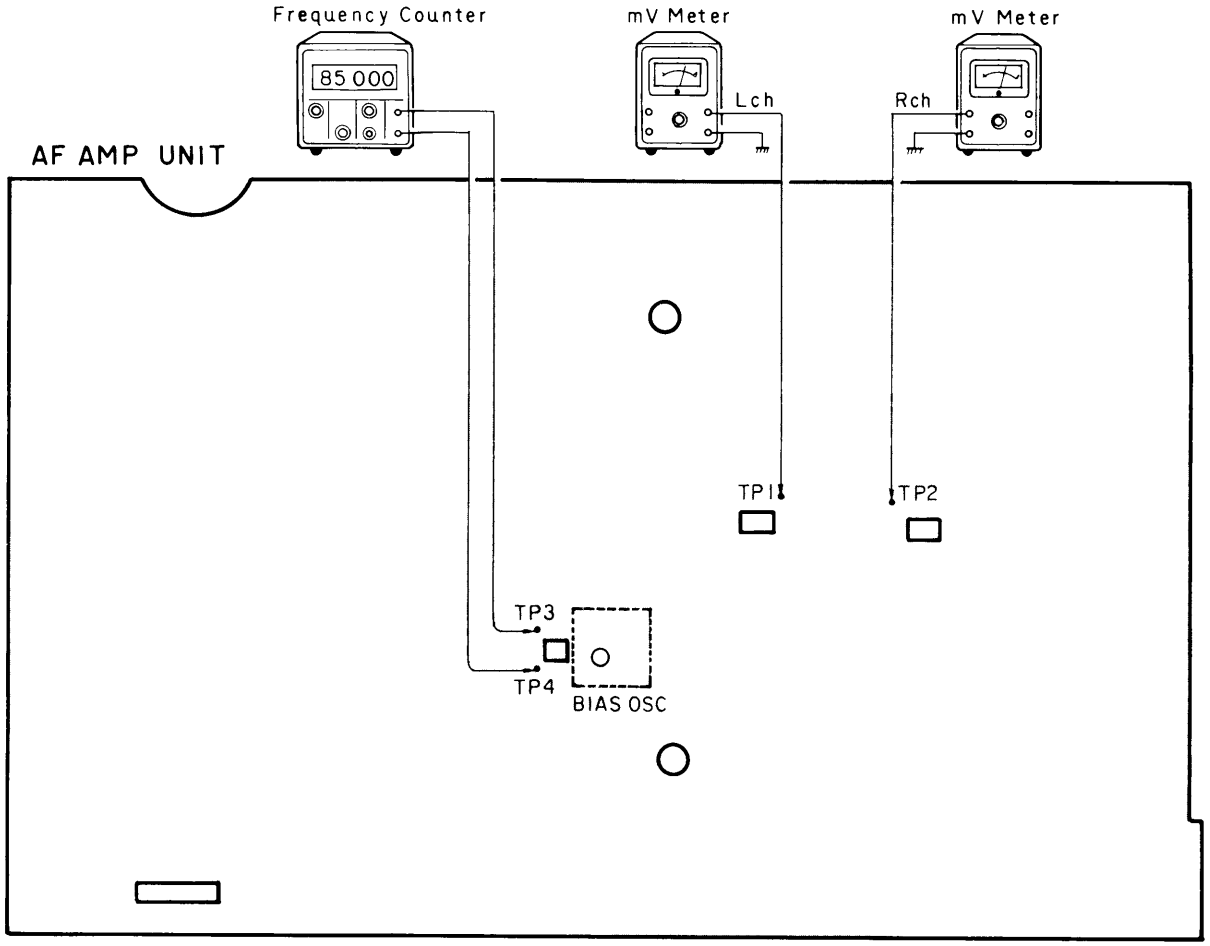


Fig. 34

- **To Adjust**

1. In the REC mode, adjust BIAS OSC for the lowest resding on the millivoltmeter at an oscillator block frequency of 85kHz ±5%.

5.4 BIAS CURRENT ADJUSTMENT (SK-700)

- **Connection Diagram**

Switch positions

BFC 2
METAL/CrO_2 . . . . . METAL

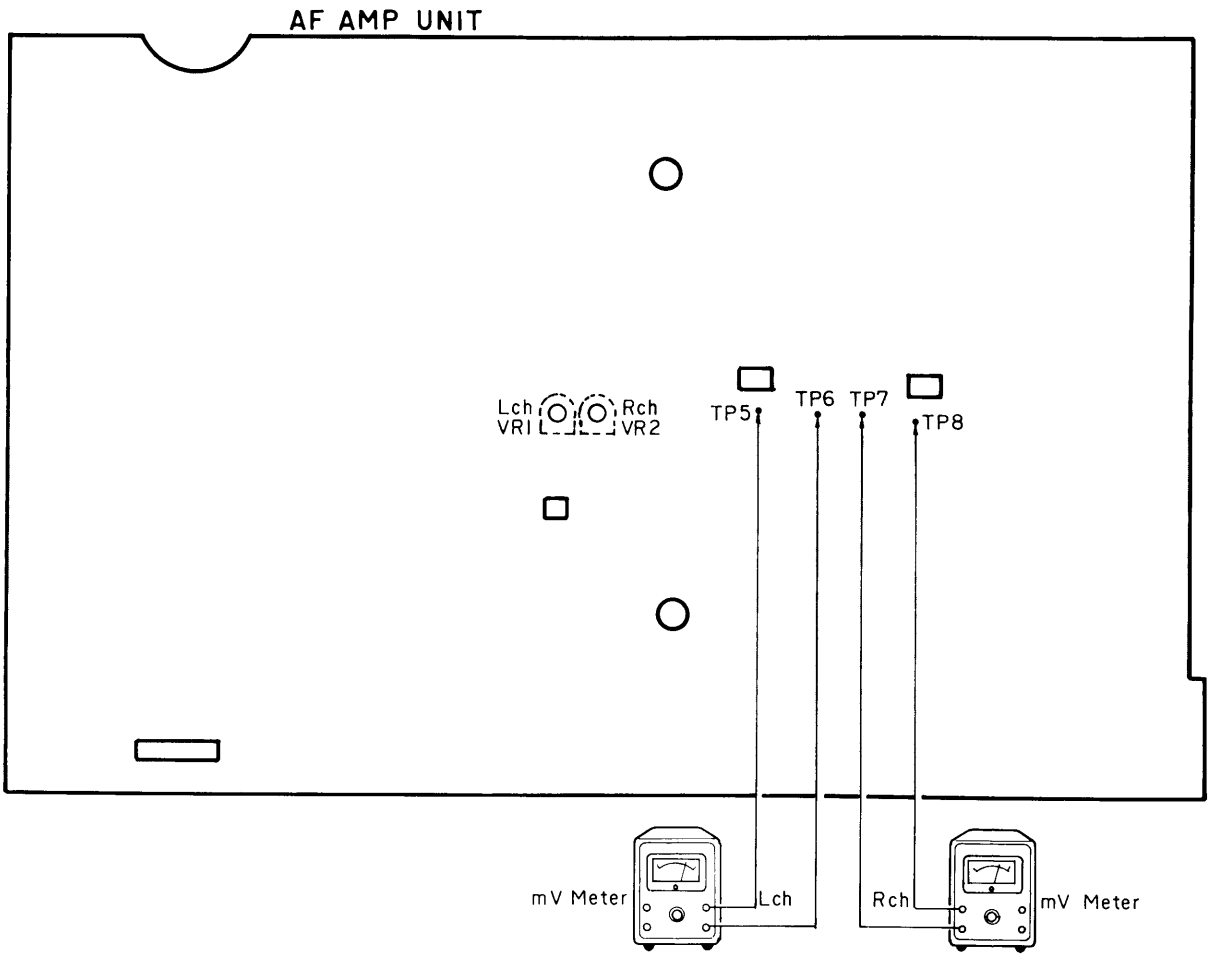


Fig. 35

- **To Adjust**

1. Put the unit into the record mode.
2. Adjust VR1 (L ch.) and VR2 (R ch.) so that the milli-voltmeters read 7mV.

5.5 PLAYBACK LEVEL ADJUSTMENT (SK-750)

- **Connection Diagram**

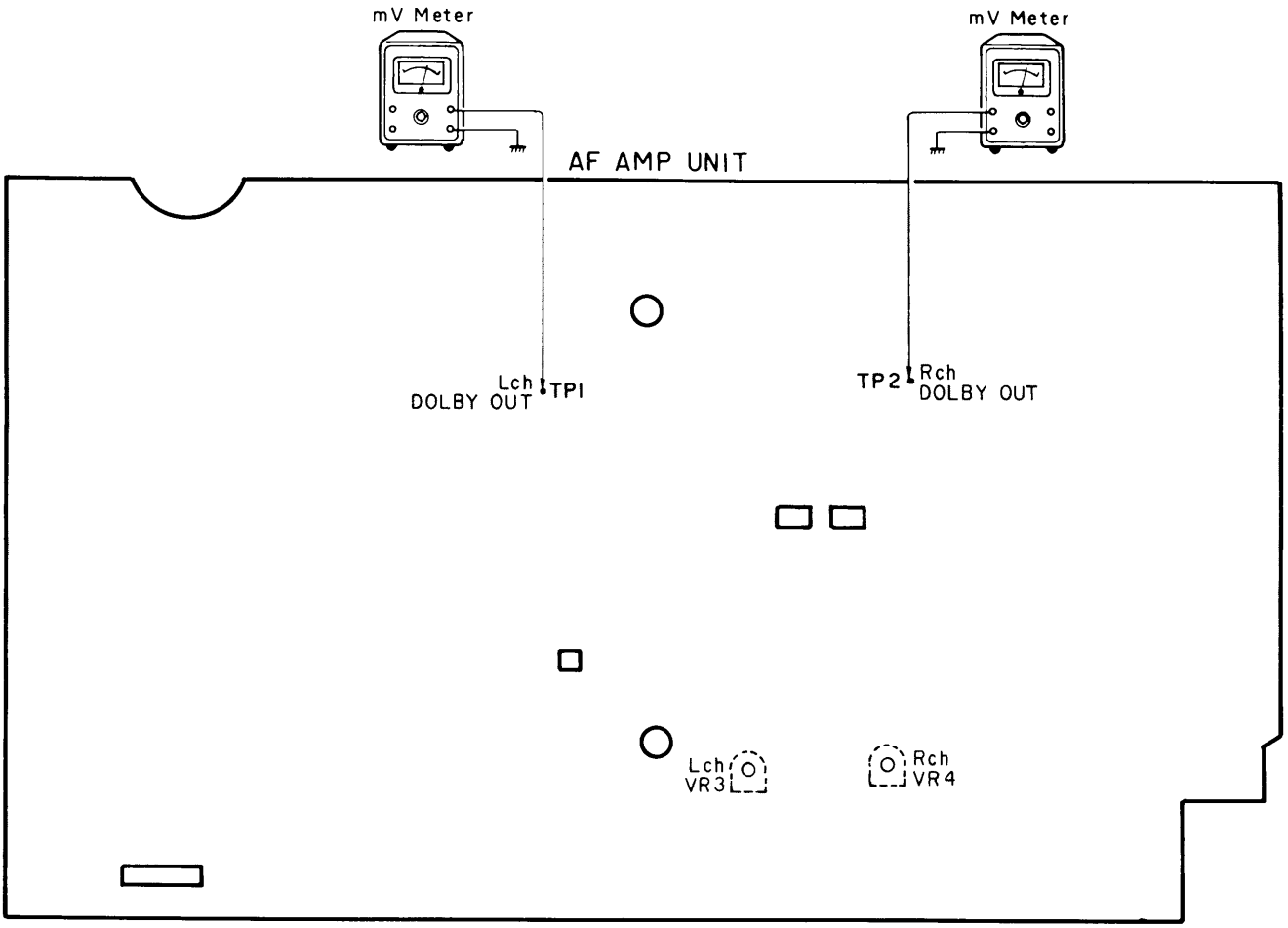


Fig. 36

- **To Adjust**

1. Playback the CT-150 (400Hz, 200n wb/m) test tape, and adjust VR3 (L ch.) and VR4 (R ch.) so that the millivoltmeters read 580mV.

5.6 BIAS TRAP ADJUSTMENT (SK-750)

- **Connection Diagram**

Switch position

BFC 2

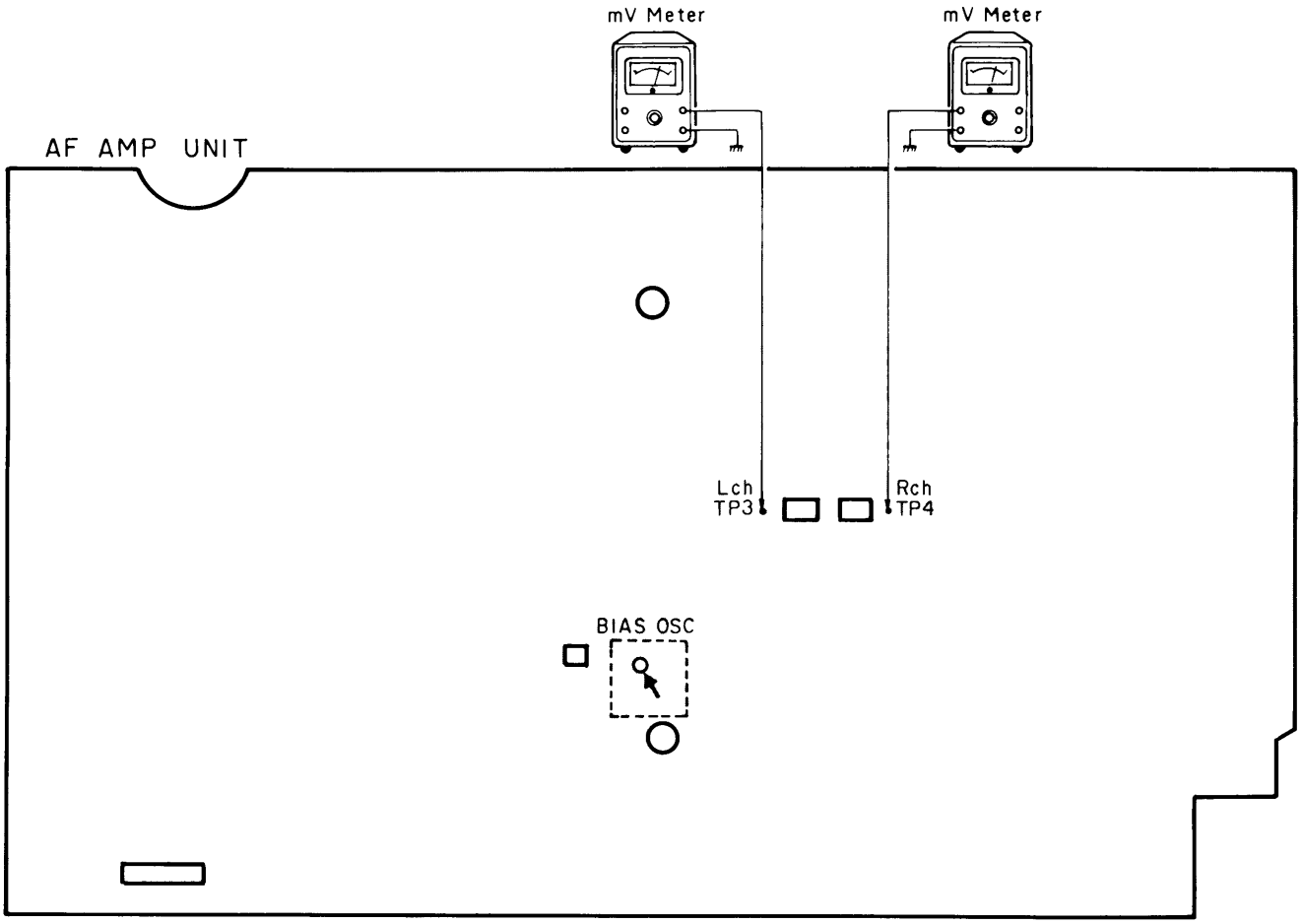


Fig. 37

- **To Adjust**

1. In the REC mode, adjust BIAS OSC for a minimum reading on the millivoltmeter.

5.7 BIAS CURRENT ADJUSTMENT (SK-750)

- **Connection Diagram**

Switch positions

BFC 2
METAL/CrO_2 . . . . . METAL

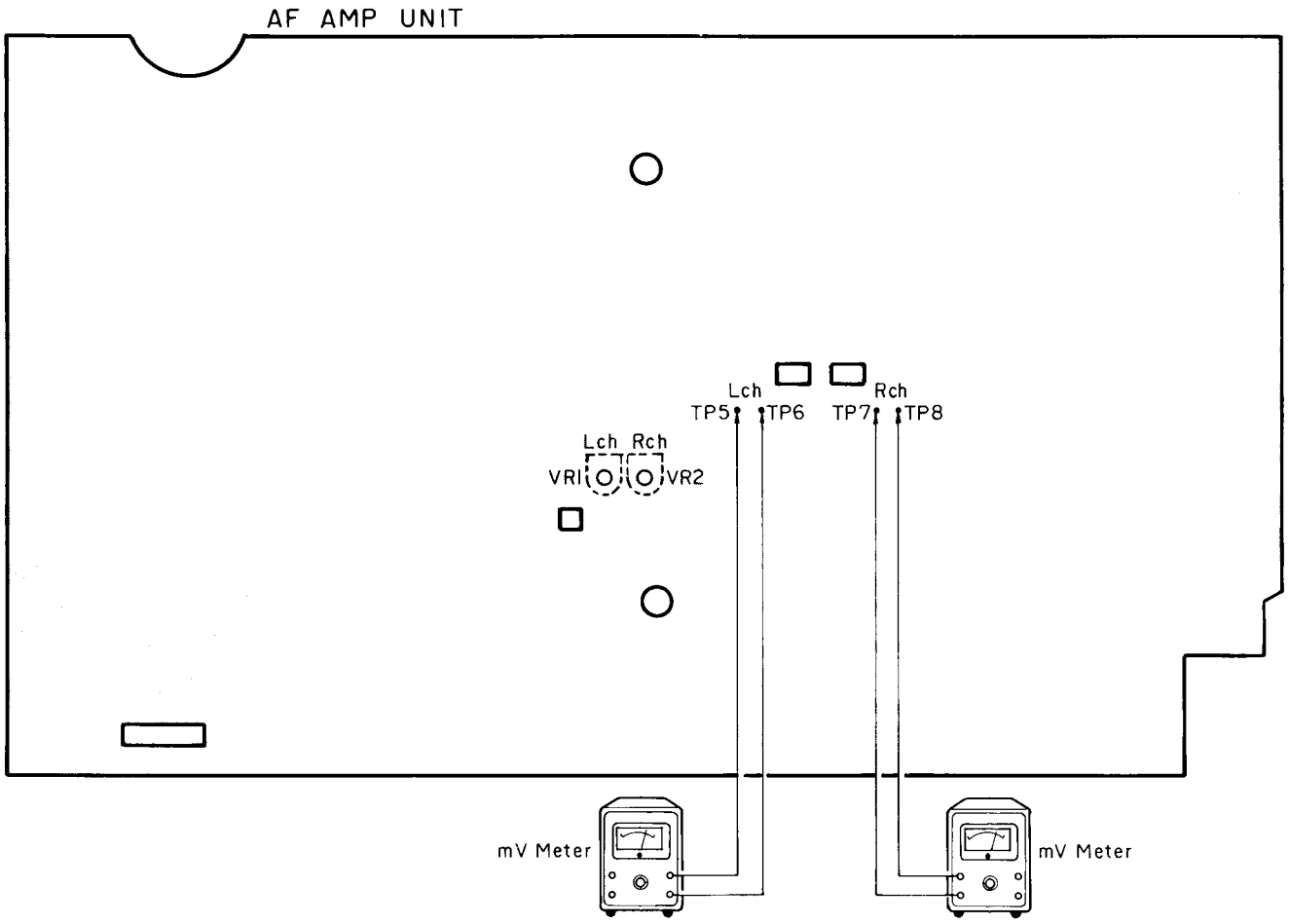


Fig. 38

- **To Adjust**

1. Put the unit into the record mode.
2. Adjust VR1 (L ch.) and VR2 (R ch.) so that the milli-voltmeters read 7mV.

5.8 RECORDING AND PLAYBACK LEVEL ADJUSTMENT (SK-750)

- **Connection Diagram**

Switch position

BFC 2

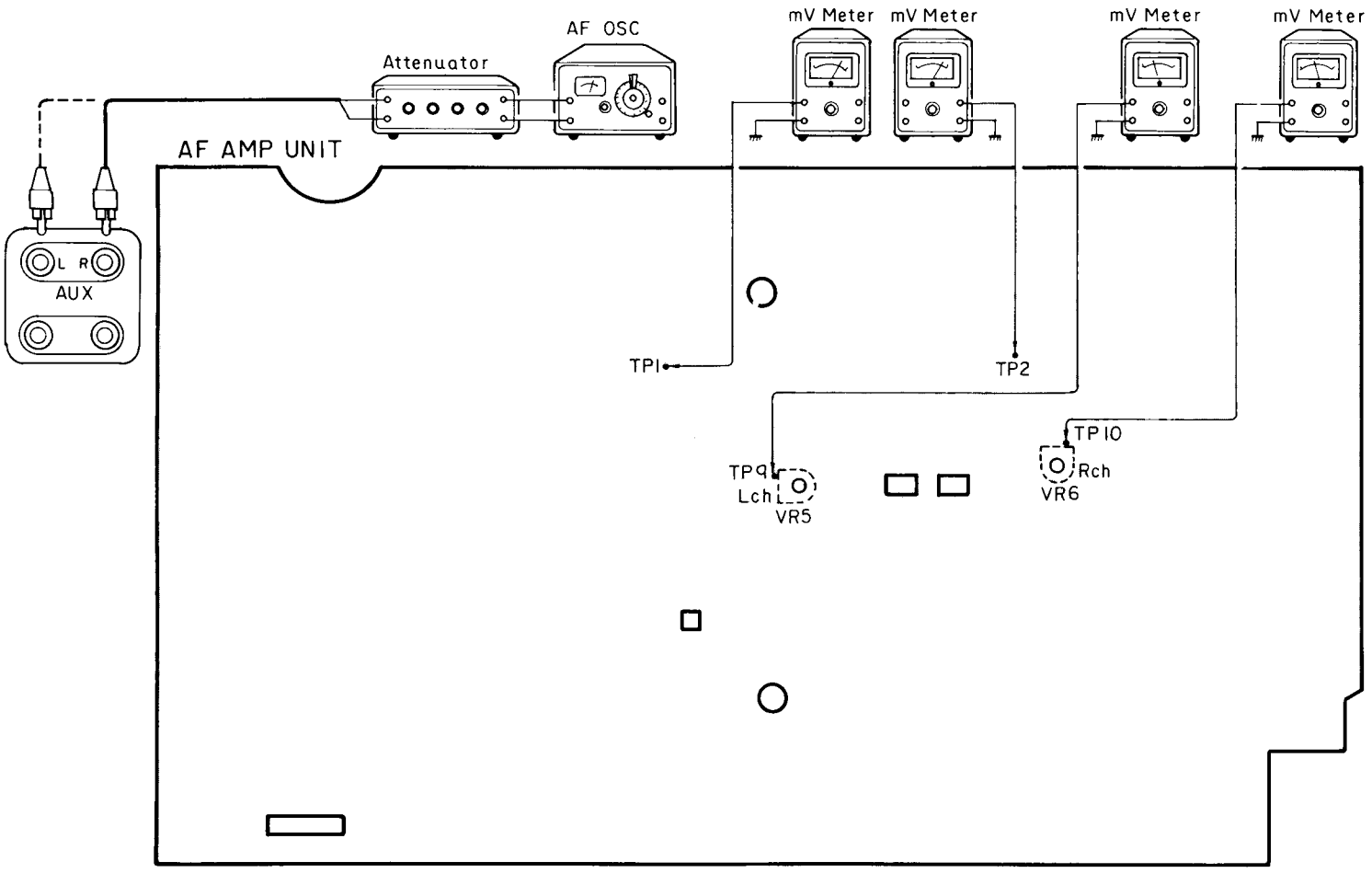


Fig. 39

- **To Adjust**

1. Apply 400Hz, −15dBs to the AUX terminal.
2. Adjust REC volume until −10.5dBs is produced at TP9 and TP10, then record a normal tape.
3. Playback the tape recorded in the steps above, and adjust VR5 (L ch.) and VR6 (R ch.) until an output of −10.5dBs (±1dBs) is obtained at TP1 and TP2.

5.9 AM IF ADJUSTMENT

- **Connection Diagram**

IF Generator Scope

Sweep center frequency 455kHz
Input gain . . . . . 0.3V p-p/cm

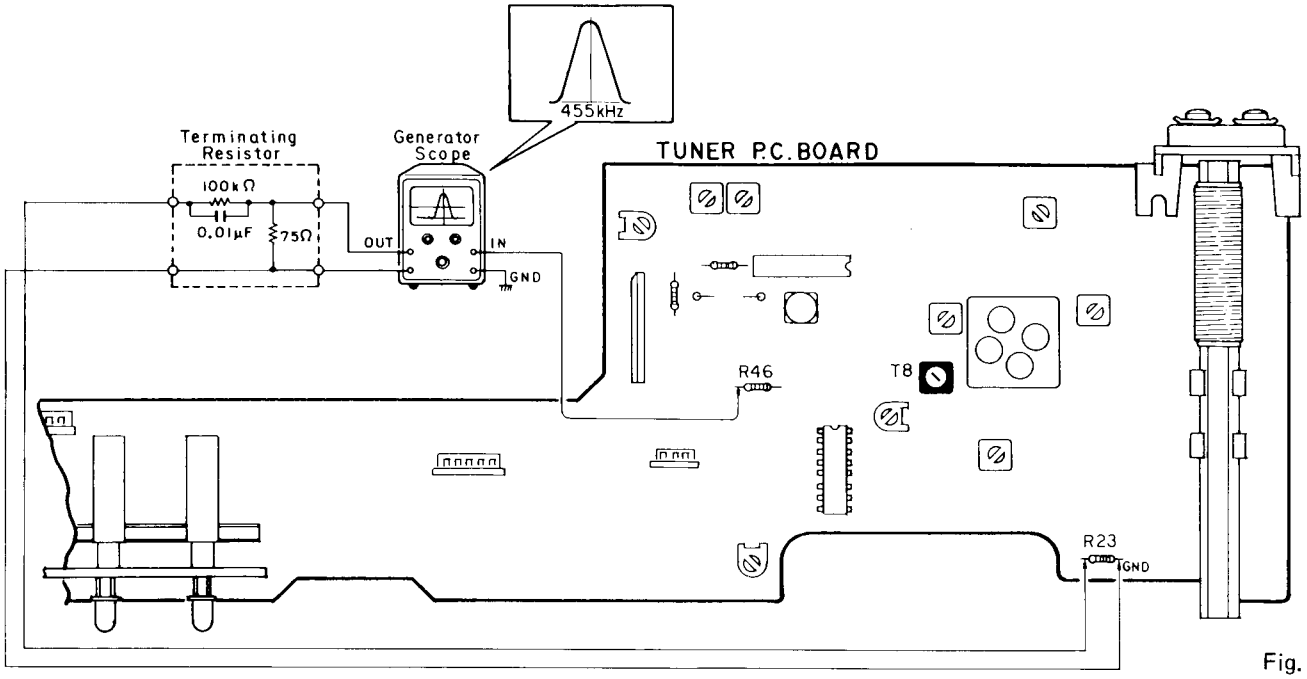


Fig. 40

- **To Adjust**

1. Apply minimum output signal required to check generator scope U curve and adjust T8 so that curve amplitude is at maximum point and there is optimum symmetry.

5.10 AM TRACKING ADJUSTMENT

- **Connection Diagram**

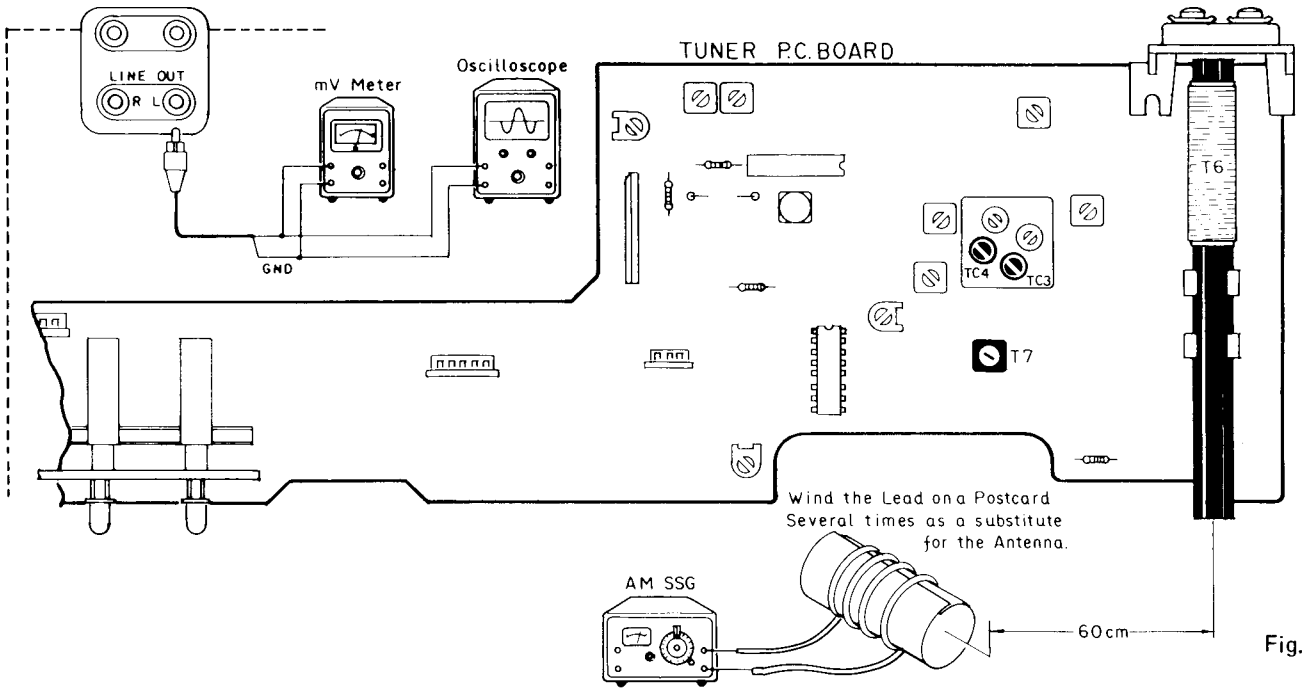


Fig. 41

- **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. 515 kHz (400 Hz, 30% modulation) output level 60 dB/m.	Maximum (turn the tuning knob counterclockwise until low end.)	T7	515 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 515 ~1,670 kHz are covered.			
4. 600 kHz (400 Hz, 30% modulation) output level 40 ~50 dB/m.	Tuned to 600 kHz.	T6 (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 T6 (Coil of bar antenna), melt electro wax with soldering iron and fix it in position.

5.11 FM IF ADJUSTMENT

- **Connection Diagram**

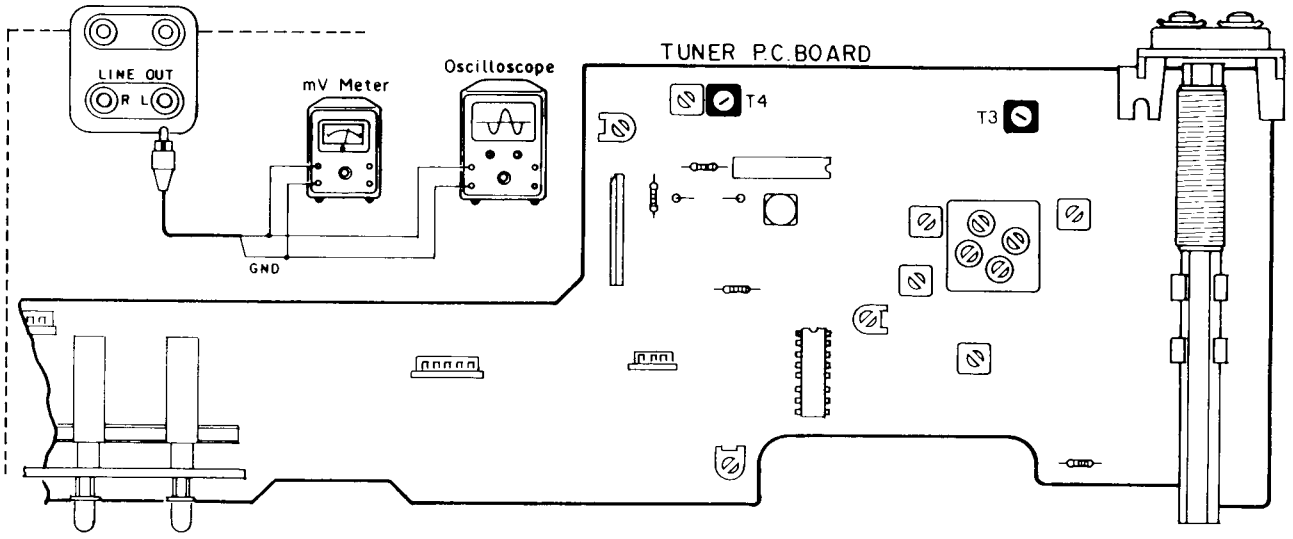


Fig. 42

- **To Adjust**

1. Adjust T3 and T4 so that noise level is highest at white noise.

5.12 FM TRACKING ADJUSTMENT

- **Connection Diagram**

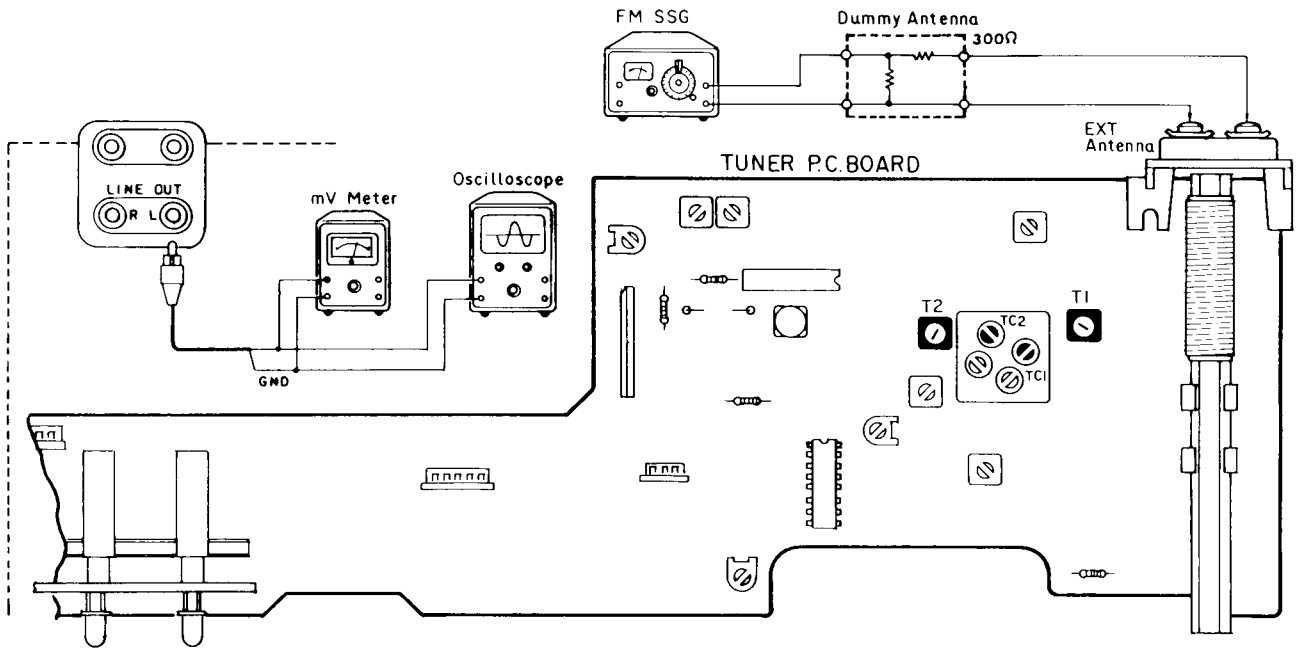


Fig. 43

- **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 (μV).	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 (μV).	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 (μV).	Tuned to 90 MHz.	T1	Maximum output
5. 106 MHz (400 Hz, 75 kHz deviation) output level 20 ~30 dB (μV).	Tuned to 106 MHz.	TC1	Maximum output
6. Repeat (4) and (5) alternately and adjust until tracking error disappears.			

5.13 FM IF FINAL ADJUSTMENT

- **Connection Diagram**

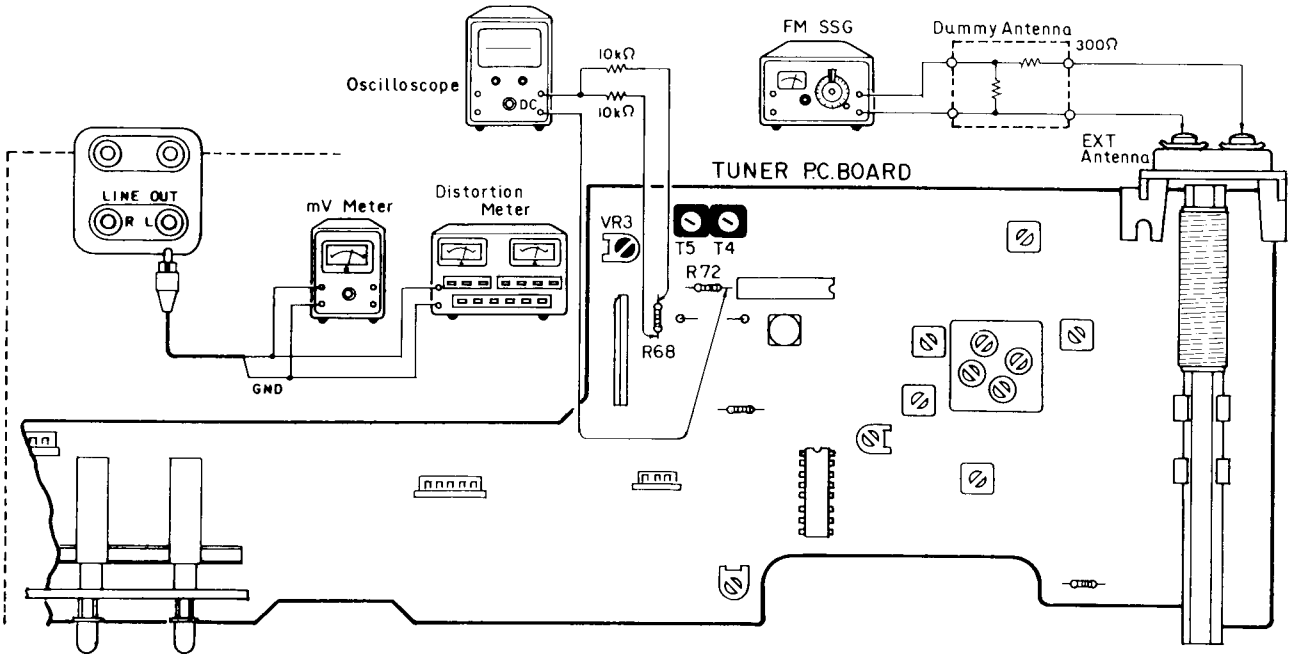


Fig. 44

- **To Adjust**

1. Using the FM SSG, apply a 98MHz, 66dB (μV) signal to the antenna terminals and tune to 98MHz.
2. Adjust T4 until a maximum reading on the millivoltmeter is obtained.
3. Adjust T5 for minimum distortion. Note that adjusting T5 will change the maximum output point, so T4 and T5 will require 2 or 3 adjustments, alternating between the two.

5.14 MUTING, CENTER ADJUSTMENT

- **Connection Diagram (Shown in Fig. 44)**

- **To Adjust**

1. Using the FM SSG, apply a 98MHz, 10dB (μV) (approx.) signal to the antenna terminals and tune to 98MHz.
2. Place the oscilloscope in the DC 0.1V/DIV range and adjust VR3 until a null is obtained.

5.15 FM MPX ADJUSTMENT

• Connection Diagram

Stereo Modulator

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

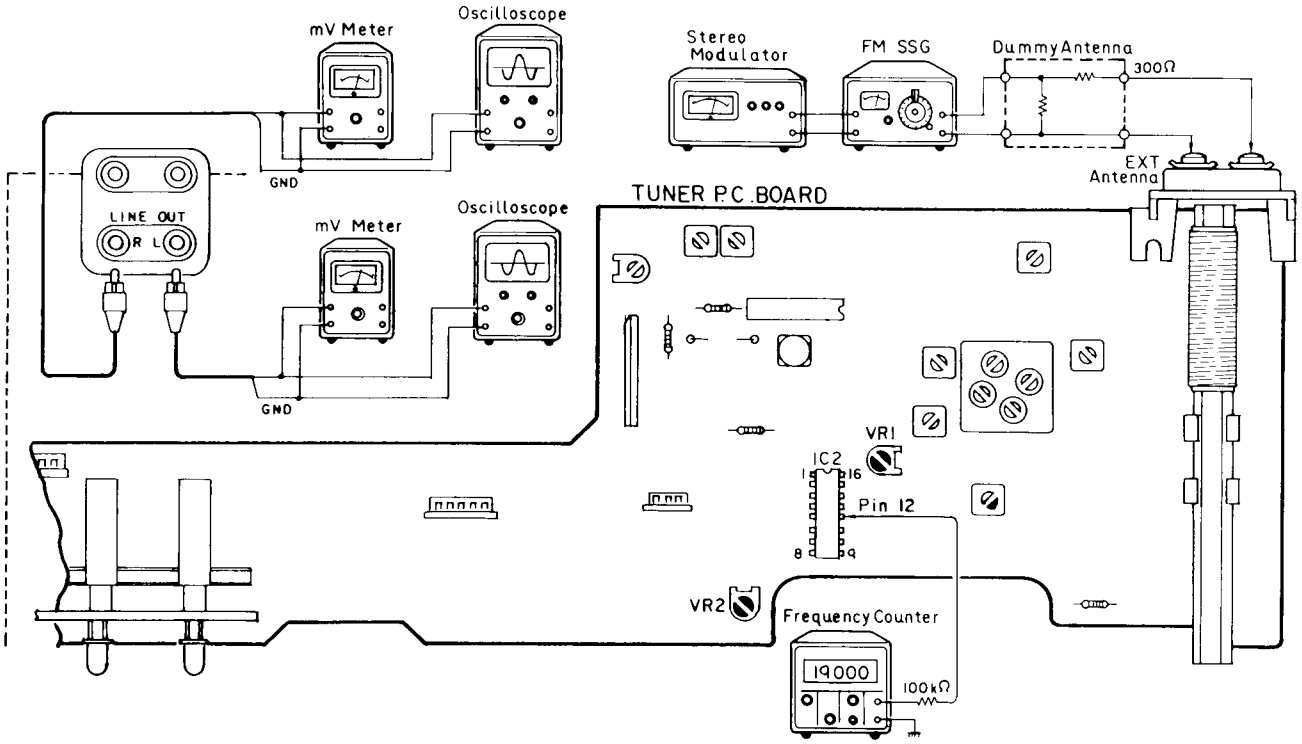


Fig. 45

• To Adjust

1. Using the FM SSG, apply a 98MHz, 10dB signal to the antenna terminals and tune to 98MHz.
2. Set output of the FM SSG to 60dB and turn modulation OFF.
3. Adjust VR1 until a reading of 19kHz ±50Hz is obtained on the frequency counter.
4. Adjust VR2 for maximum separation.
5. Vary the output of FM SSG between 20 and 33dB and make sure that the tuning indicator (green) lights. If it doesn't light, short D2 or D4.

6. DIAL STRINGING

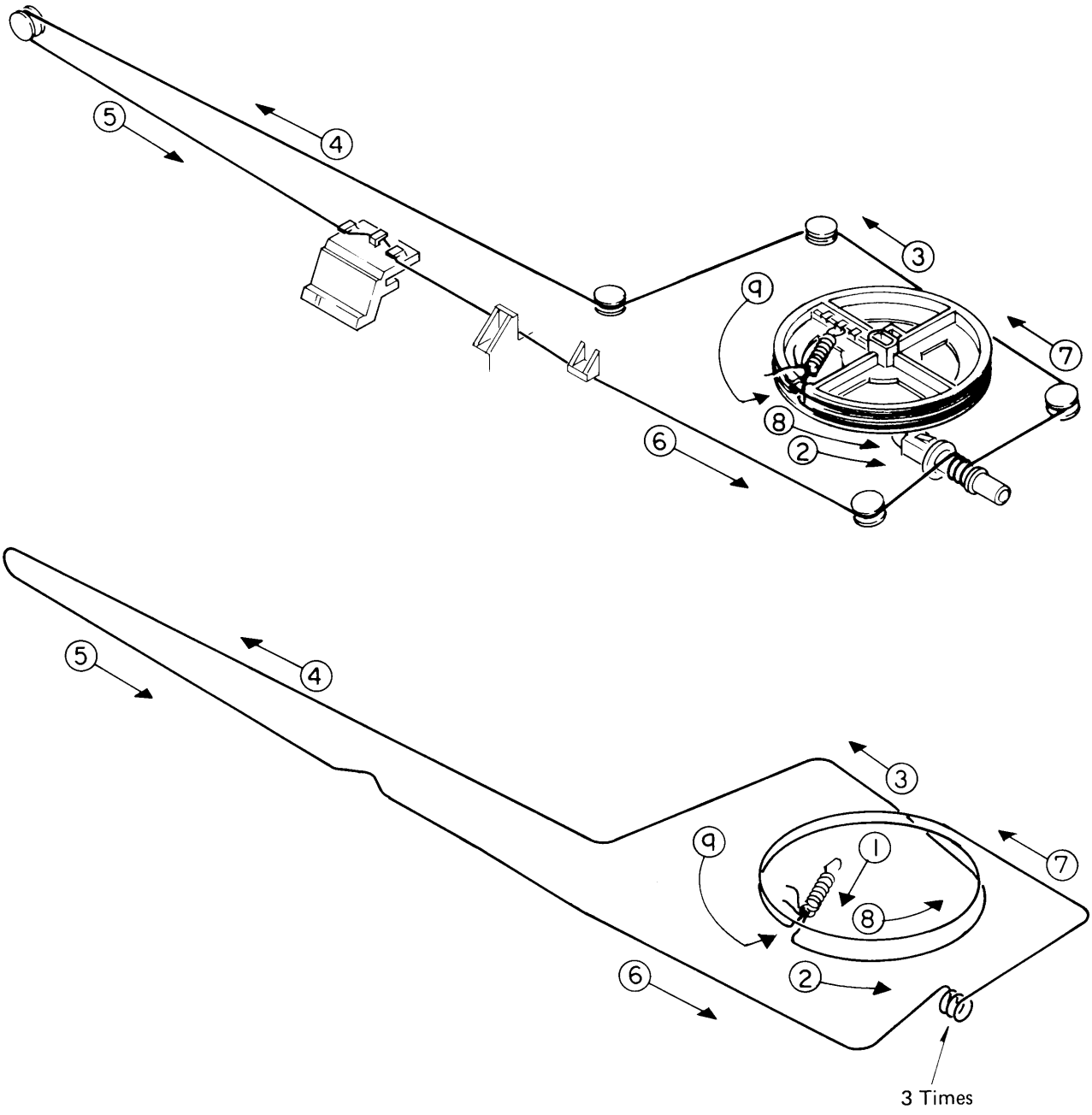
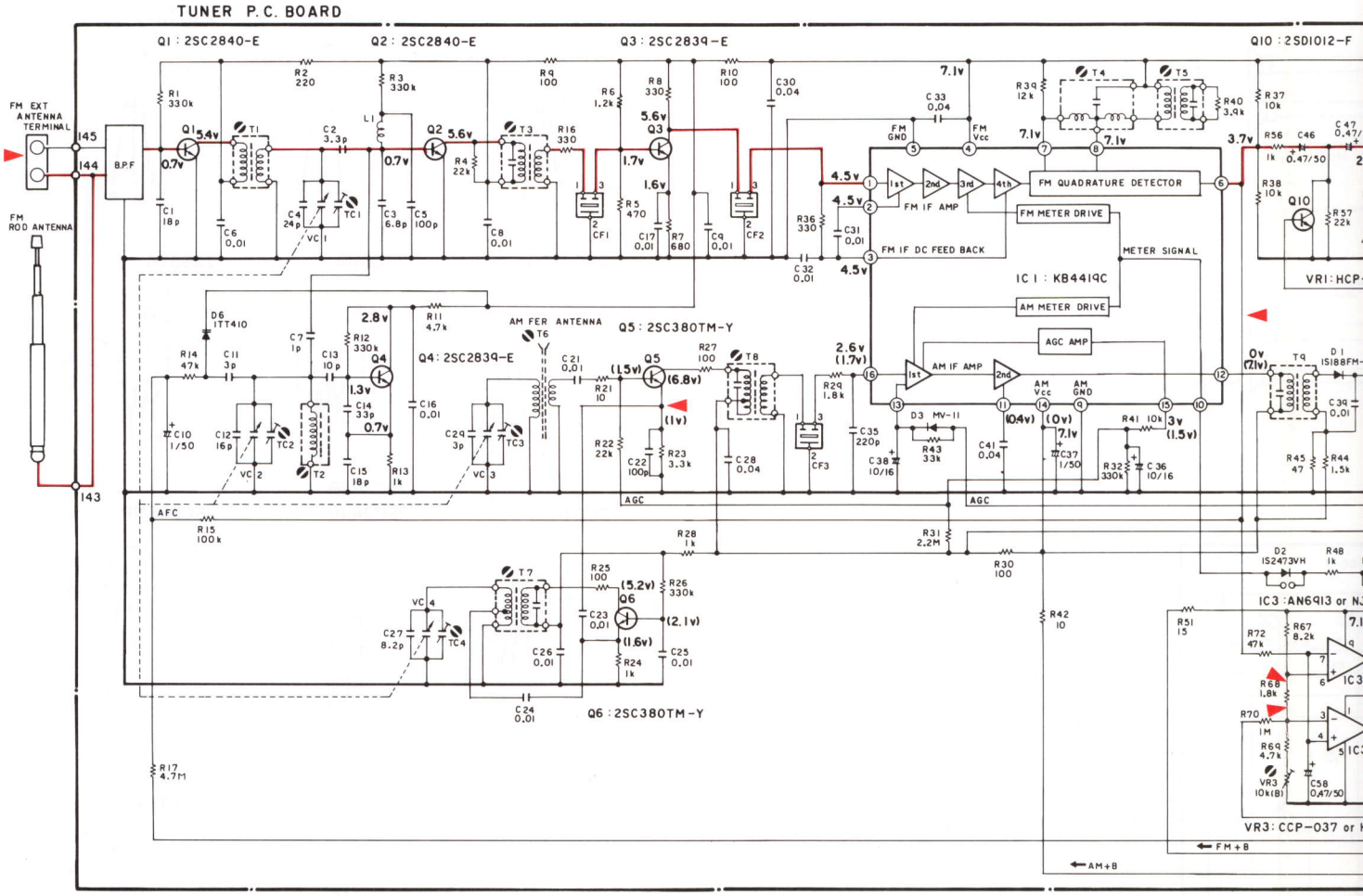


Fig. 46

7. SCHEMATIC CIRCUIT DIAGRAM (1) (TUNER, SK-700, SK-750)



SWITCHES :

⊙ TUNER P.C. BOARD

S1 : FUNCTION SWITCH ..... AM-FM-TAPE-PHONO/AUX-MIC

⊙ AF AMP UNIT

S1 : REC/PB SWITCH ..... REC-PB
S2 : PHONO/AUX SWITCH ..... PHONO-AUX
S3 : BFC SWITCH 1-2-3

⊙ AF CONTROL UNIT

S4 : ALC/MANUAL SWITCH ..... ALC-MANUAL SK-750
S5 : METAL/CrO2 SWITCH METAL-CrO2
S6 : DOLBY NR SWITCH ..... ON-OFF SK-750
S7 : AUTO/MONO SWITCH ..... AUTO-MONO
S8 : TIMER STAND-BY SWITCH ..... PLAY-OFF-REC

⊙ POWER SWITCH UNIT

S9 : POWER SWITCH ..... ON-OFF

⊙ KEY BOARD UNIT

S1~10 : KEY SWITCH ..... ON-OFF
(S3,4 : VACANT) SK-700

⊙ SWITCH UNIT (A)

S1 : REC INH SWITCH ..... ON-OFF
S2 : EJECT SWITCH ..... ON-OFF
S3 : CrO2 SWITCH ..... ON-OFF

⊙ SWITCH UNIT (B)

S1-1 : STOP LEVER SWITCH ..... ON-OFF
S1-2 : REC PAUSE LEVER SWITCH ..... ON-OFF
S2 : SLIDER SWITCH ..... ON-OFF

⊙ MISCELLANEOUS

S1 : FAS SWITCH ..... ON-OFF

The under lined indicates the switch position.

0)

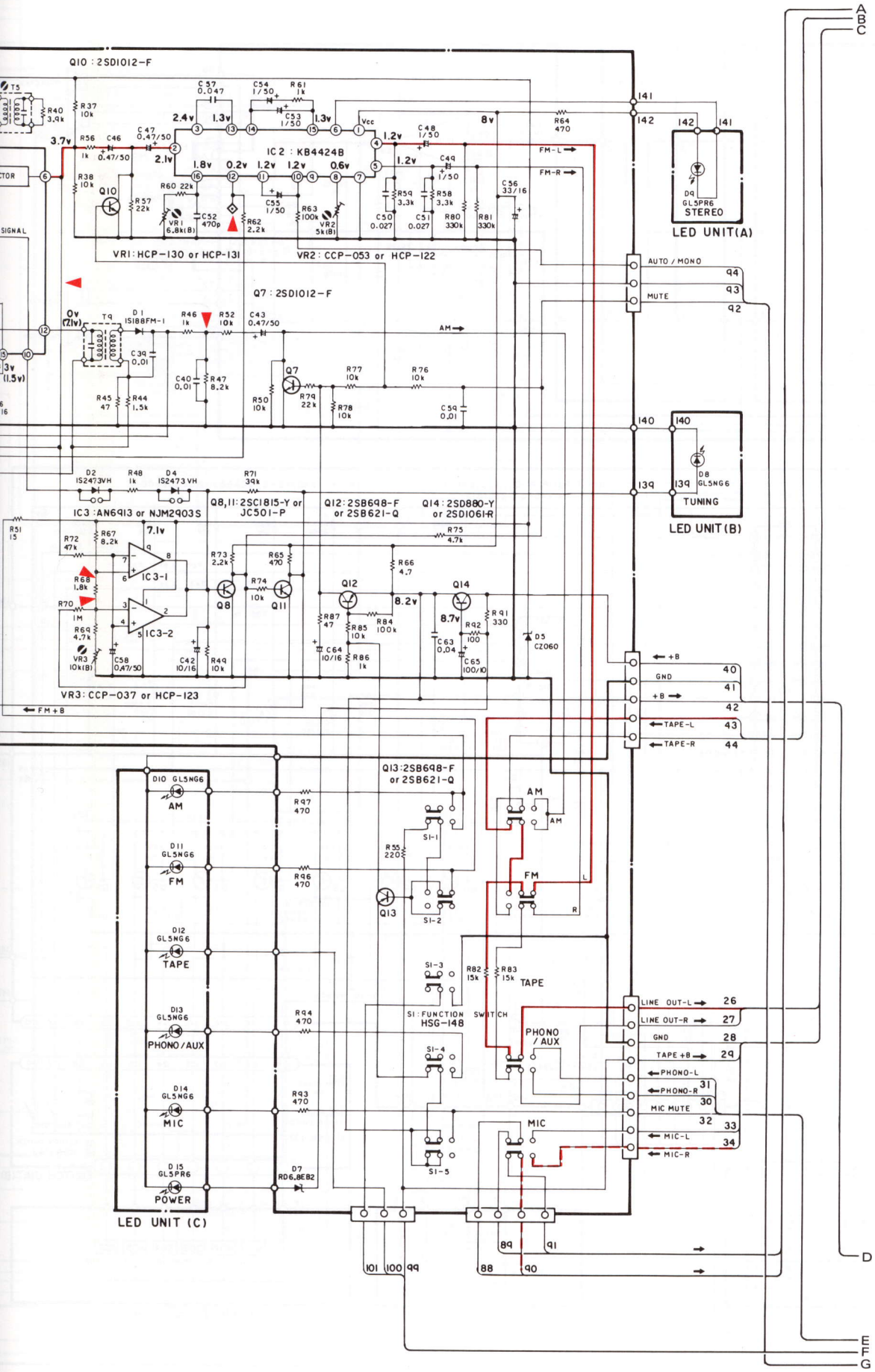
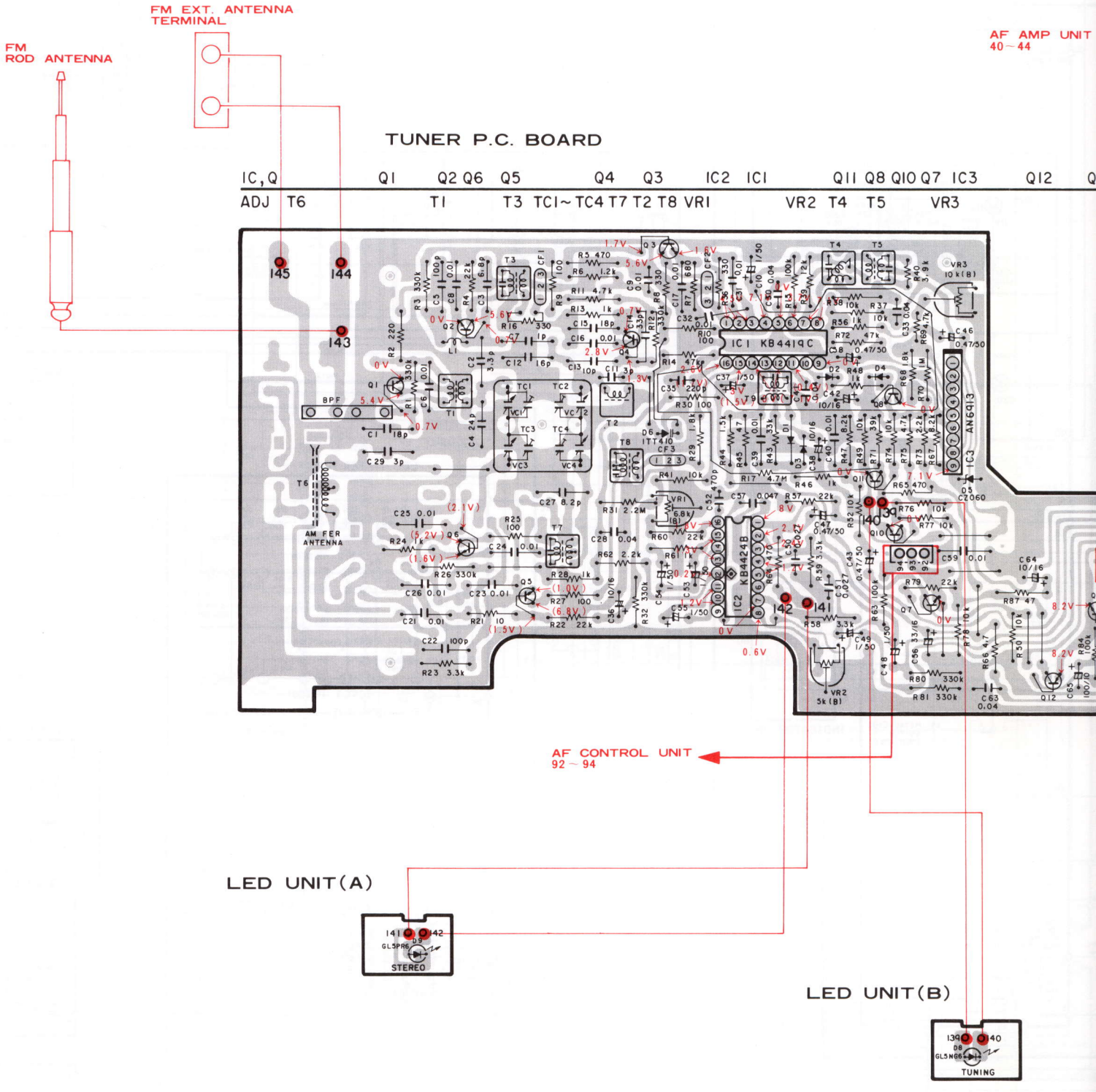

Q10 : 2SD1012-F
IC2 : KB4424B
VR1 : HCP-130 or HCP-131
VR2 : CCP-053 or HCP-122
Q7 : 2SD1012-F
IC3 : AN6913 or NJM2903S
Q8,11 : 2SC1815-Y or JC501-P
Q12 : 2SB698-F or 2SB621-Q
Q14 : 2SD880-Y or 2SD1061-R
VR3 : CCP-037 or HCP-123
Q13 : 2SB698-F or 2SB621-Q
LED UNIT (A)
LED UNIT (B)
LED UNIT (C)
STEREO
TUNING
POWER
AUTO / MONO
MUTE
+B
GND
TAPE-L
TAPE-R
LINE OUT-L
LINE OUT-R
TAPE +B
PHONO-L
PHONO-R
MIC MUTE
MIC-L
MIC-R
AM
FM
TAPE
PHONO / AUX
MIC
SI : FUNCTION SWITCH HSG-148

Fig. 47

8. CONNECTION DIAGRAM (1) (TUNER, SK-700, SK-750)



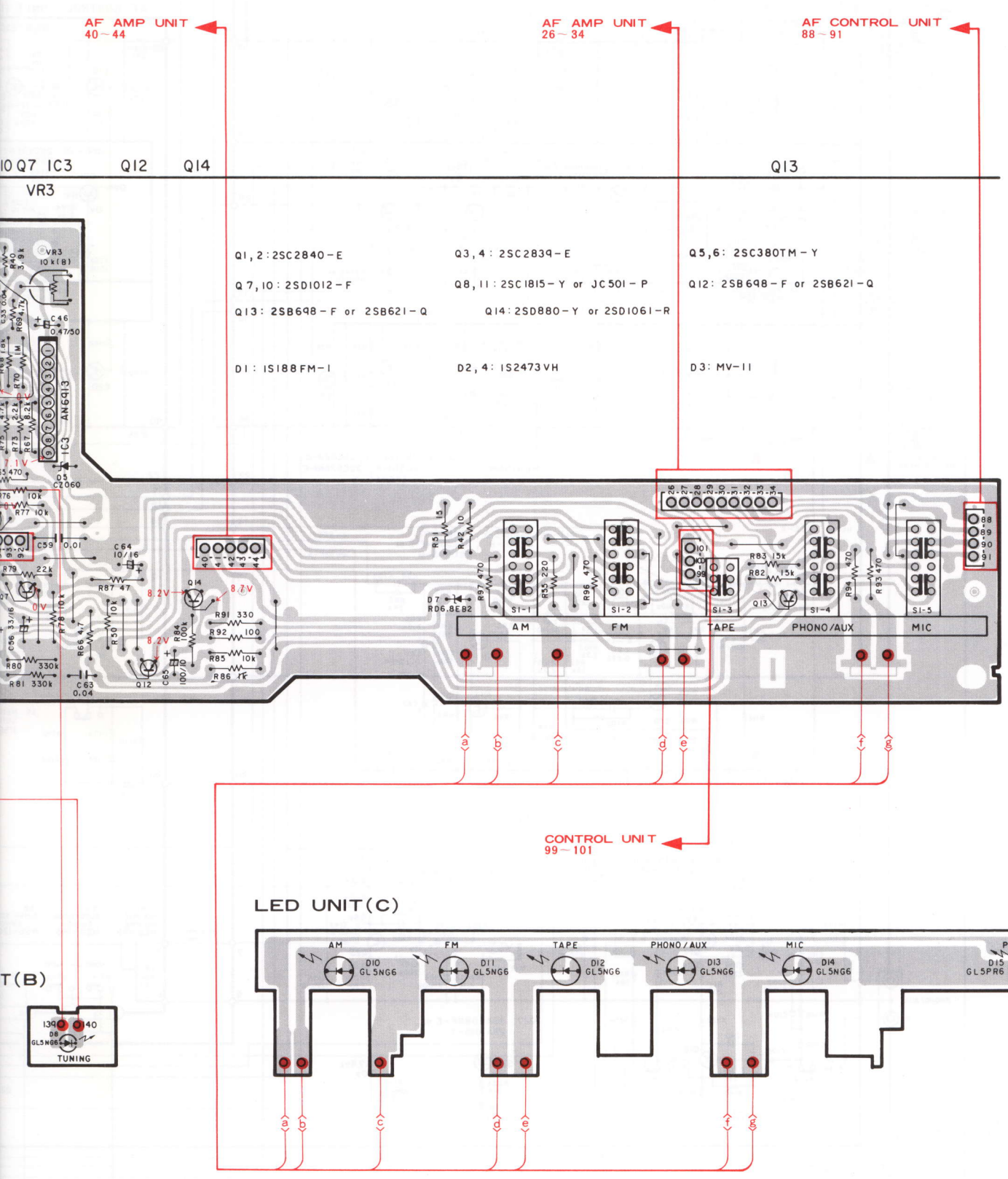
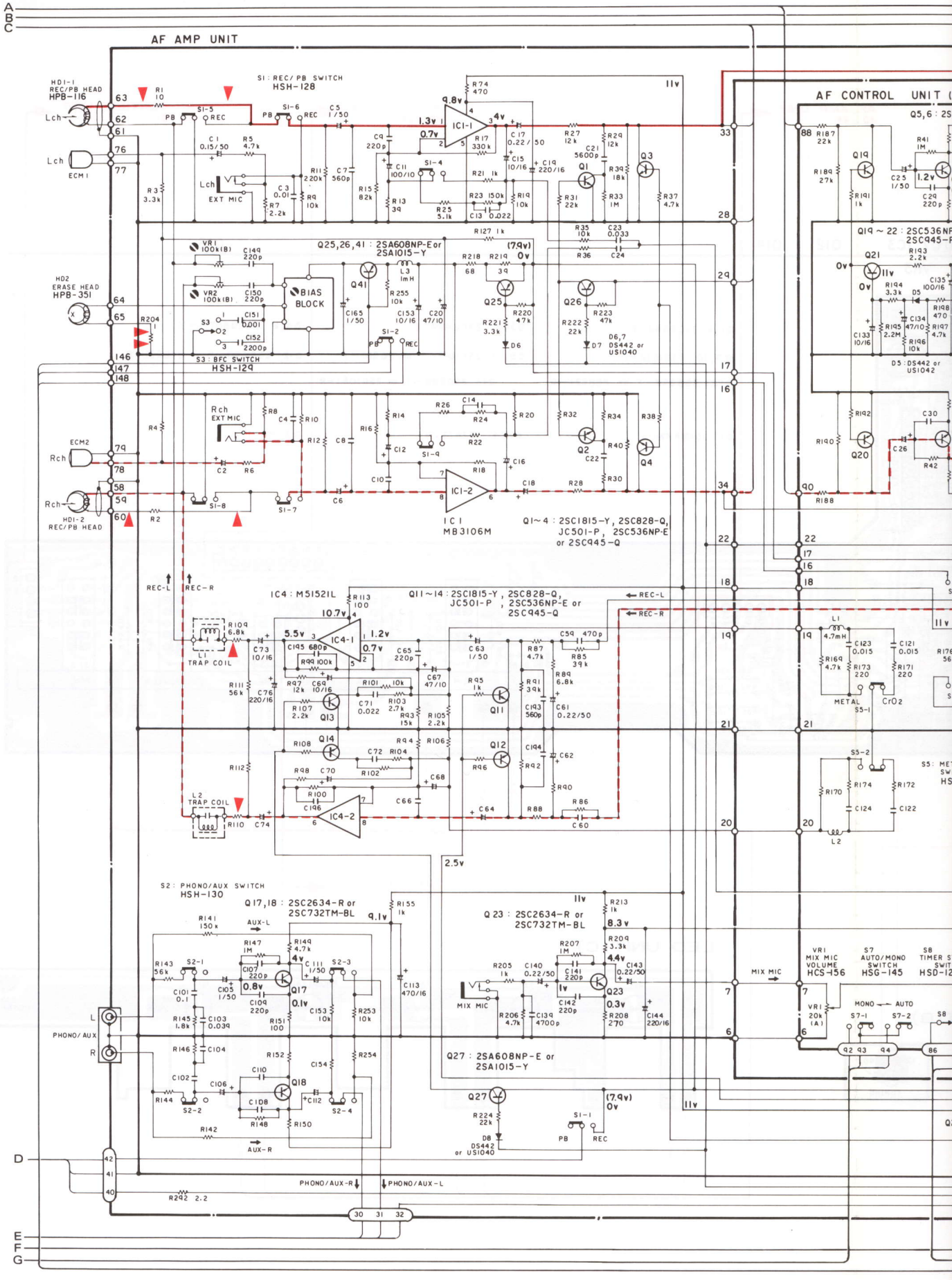
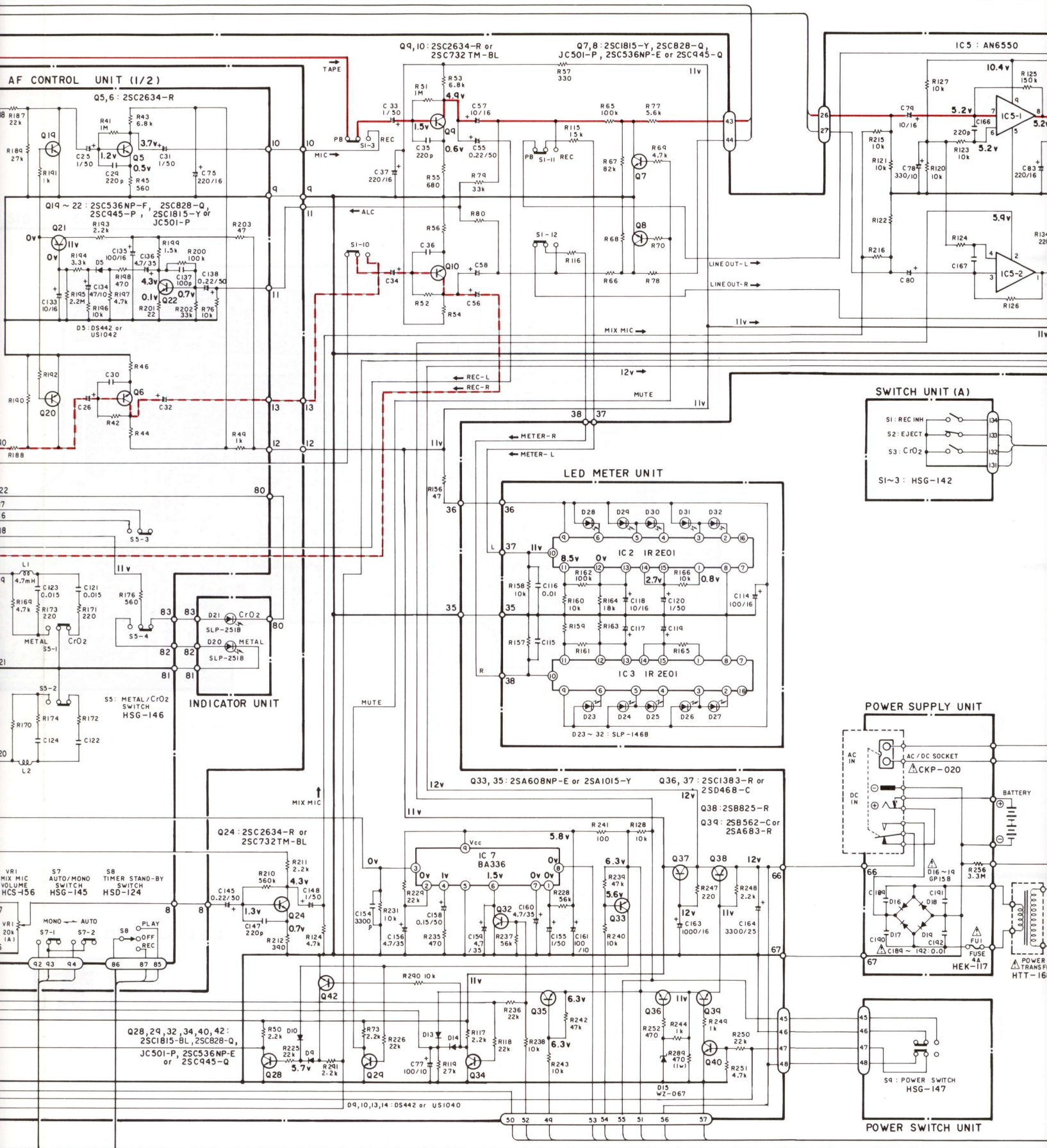
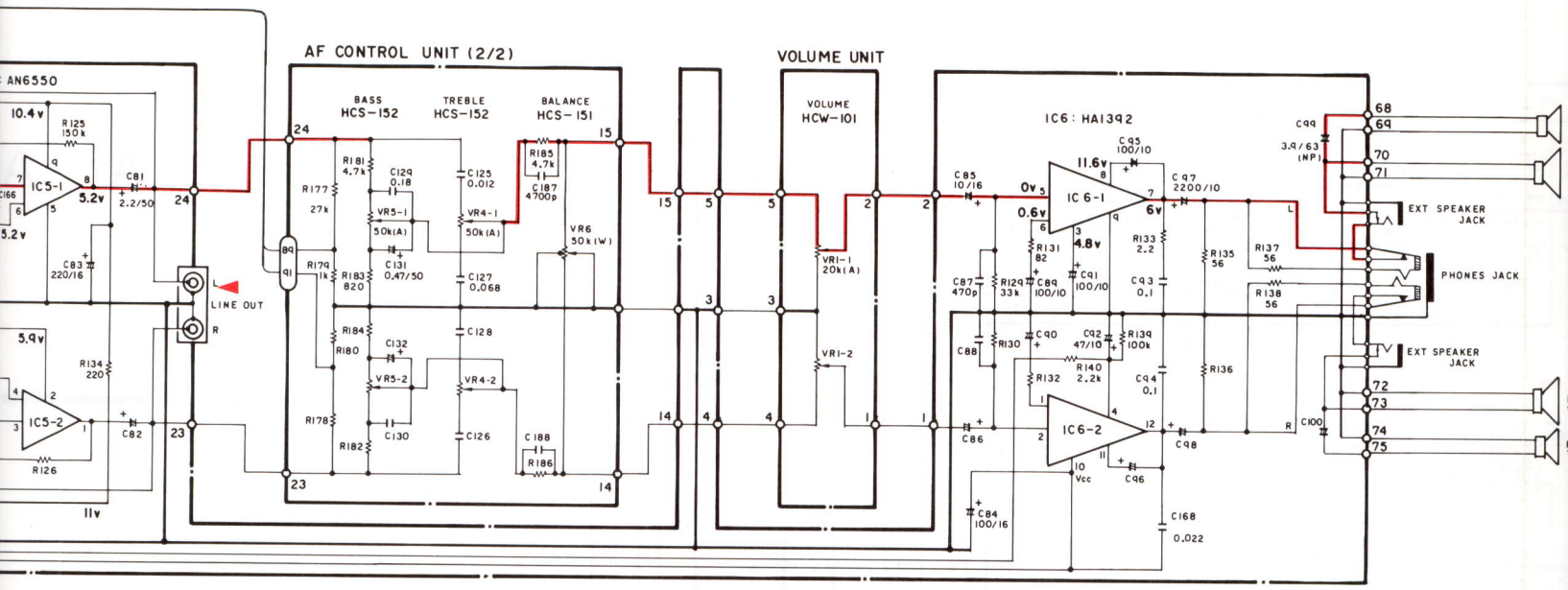

AF AMP UNIT
40 ~ 44
AF AMP UNIT
26 ~ 34
AF CONTROL UNIT
88 ~ 91
Q7 IC3 Q12 Q14 Q13
VR3
Q1, 2 : 2SC2840 - E
Q3, 4 : 2SC2839 - E
Q5, 6 : 2SC380TM - Y
Q7, 10 : 2SD1012 - F
Q8, 11 : 2SC1815 - Y or JC501 - P
Q12 : 2SB698 - F or 2SB621 - Q
Q13 : 2SB698 - F or 2SB621 - Q
Q14 : 2SD880 - Y or 2SD1061 - R
D1 : IS188FM - I
D2, 4 : IS2473VH
D3 : MV - 11
AM
FM
TAPE
PHONO/AUX
MIC
CONTROL UNIT
99 ~ 101
LED UNIT(C)
AM
FM
TAPE
PHONO / AUX
MIC
POWER
D10 GL5NG6
D11 GL5NG6
D12 GL5NG6
D13 GL5NG6
D14 GL5NG6
D15 GL5PR6
T(B)
TUNING

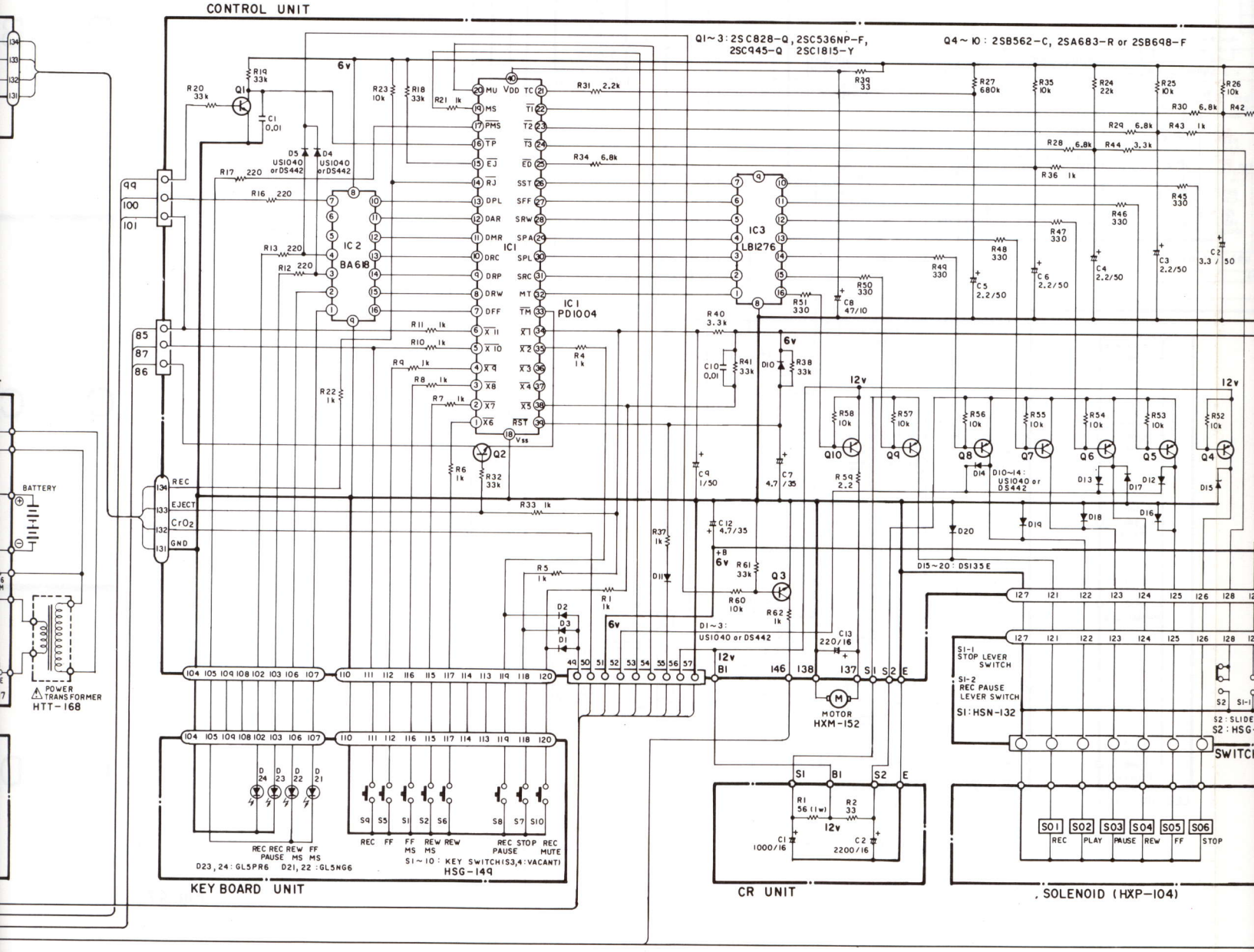
Fig. 48

9. SCHEMATIC CIRCUIT DIAGRAM (2) (SK-700)




AF CONTROL UNIT (1/2)
Q5,6 : 2SC2634-R
Q19 ~ 22 : 2SC536NP-F, 2SC828-Q, 2SC945-P, 2SC1815-Y or JC501-P
D5 : DS442 or US1042
Q9,10 : 2SC2634-R or 2SC732TM-BL
Q7,8 : 2SC1815-Y, 2SC828-Q, JC501-P, 2SC536NP-E or 2SC945-Q
IC5 : AN6550
IC5-1
IC5-2
TAPE
MIC
ALC
REC-L
REC-R
METER-R
METER-L
MIX MIC
MUTE
LINE OUT-L
LINE OUT-R
SWITCH UNIT (A)
S1 : REC INH
S2 : EJECT
S3 : CrO2
S1~3 : HSG-142
LED METER UNIT
IC2 IR2E01
IC3 IR2E01
D23 ~ 32 : SLP-1468
INDICATOR UNIT
D21 CrO2 SLP-2518
D20 METAL SLP-2518
S5 : METAL/CrO2 SWITCH HSG-146
Q24 : 2SC2634-R or 2SC732TM-BL
Q33, 35 : 2SA608NP-E or 2SA1015-Y
Q36, 37 : 2SC1383-R or 2SD468-C
Q38 : 2SB825-R
Q39 : 2SB562-C or 2SA683-R
IC 7 BA336
Q28,29,32,34,40,42 : 2SC1815-BL, 2SC828-Q, JC501-P, 2SC536NP-E or 2SC945-Q
D9,10,13,14 : DS442 or US1040
POWER SUPPLY UNIT
AC IN
DC IN
AC/DC SOCKET
CKP-020
BATTERY
FUSE 4A HEK-117
POWER TRANSF HTT-16
S9 : POWER SWITCH HSG-147
POWER SWITCH UNIT
VR1 MIX MIC VOLUME HCS-156
S7 AUTO/MONO SWITCH HSG-145
S8 TIMER STAND-BY SWITCH HSD-124


AF CONTROL UNIT (2/2)
VOLUME UNIT
AN6550
BASS HCS-152
TREBLE HCS-152
BALANCE HCS-151
VOLUME HCW-101
IC6 : HA1392
IC5-1
IC5-2
IC6-1
IC6-2
LINE OUT
EXT SPEAKER JACK
PHONES JACK
EXT SPEAKER JACK
VR6 50k (W)
VR1-1 20k (A)
VR1-2


CONTROL UNIT
Q1~3 : 2SC828-Q, 2SC536NP-F, 2SC945-Q 2SC1815-Y
Q4~10 : 2SB562-C, 2SA683-R or 2SB698-F
IC1 PD1004
IC2 BA618
IC3 LB1276
D1~3 : US1040 or DS442
D4 US1040 or DS442
D5 US1040 or DS442
D10~14 : US1040 or DS442
D15~20 : DS135E
BATTERY
POWER TRANSFORMER HTT-168
MOTOR HXM-152
KEY BOARD UNIT
D23, 24 : GL5PR6 D21, 22 : GL5NG6
S1~10 : KEY SWITCH (S3,4 : VACANT)
HSG-149
CR UNIT
SOLENOID (HXP-104)
S1-1 STOP LEVER SWITCH
S1-2 REC PAUSE LEVER SWITCH
S1 : HSN-132
REC
EJECT
CrO2
GND
REC REC PAUSE REW MS FF MS
REC FF FF MS REW MS REW
REC STOP PAUSE REC MUTE
SO1 REC
SO2 PLAY
SO3 PAUSE
SO4 REW
SO5 FF
SO6 STOP

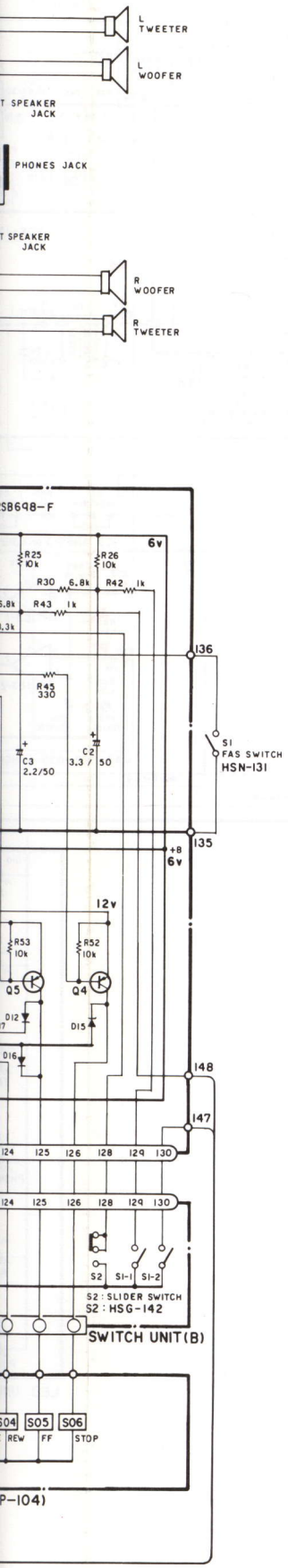
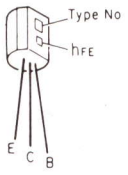


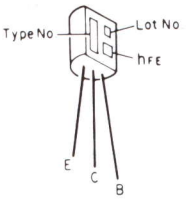
Fig. 49

• Transistors

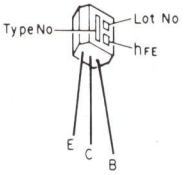
JC501



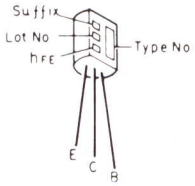
2SC380TM



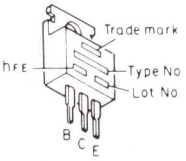
2SD1012



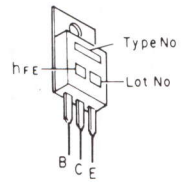
2SC2320L



2SD880

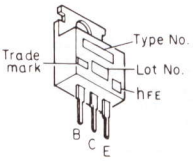


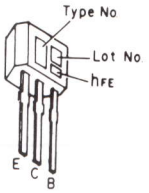
2SB825



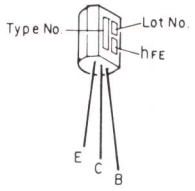
2SC2839
2SC2840

2SD1061

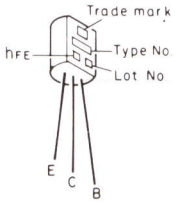




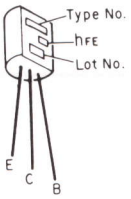
2SC536NP



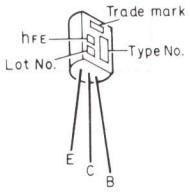
2SC828
2SC2634



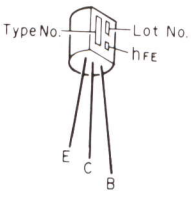
2SB562
2SD468



2SA683
2SC1383



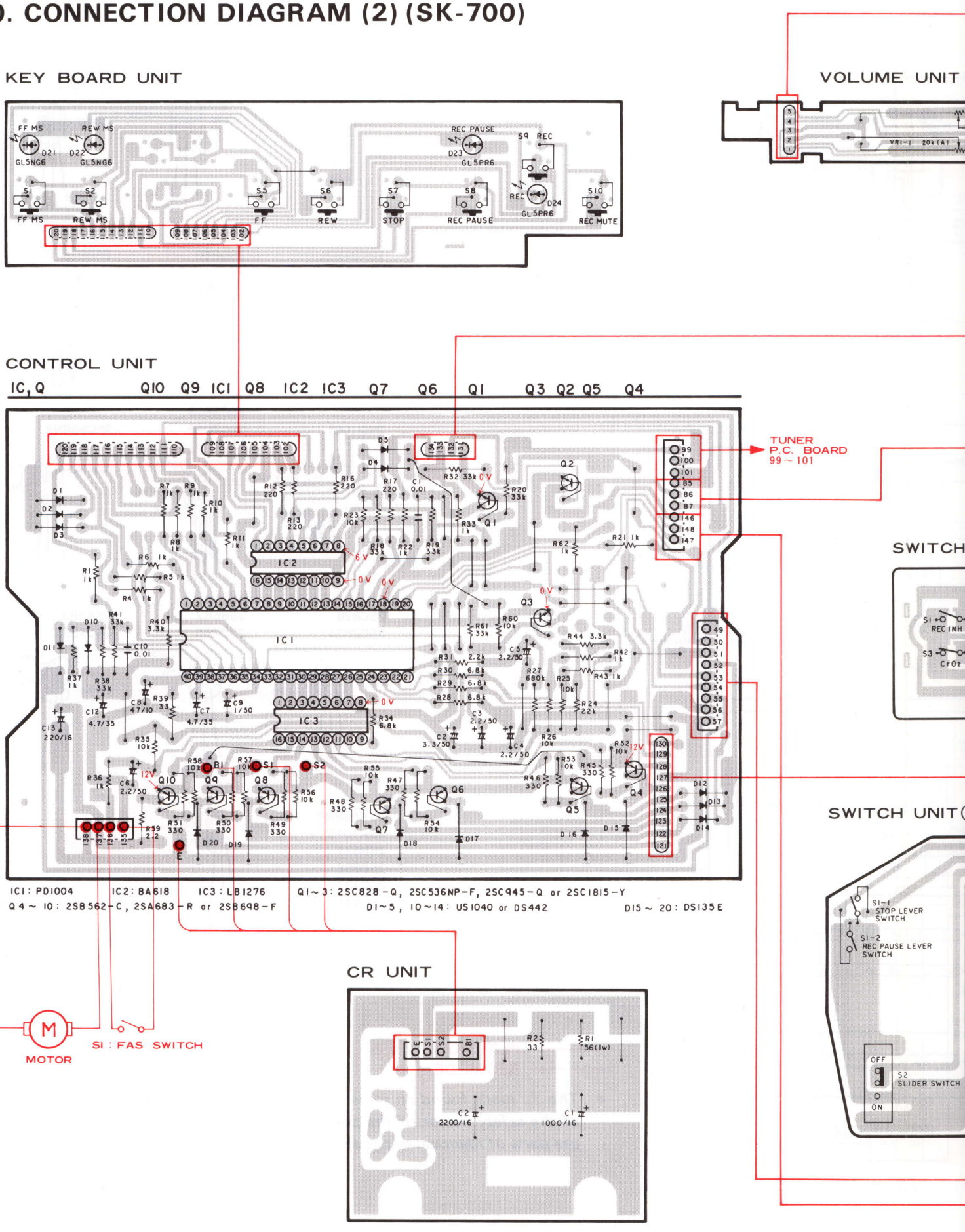
2SA608NP
2SA1015
2SB621
2SB698
2SC732
2SC945
2SC1815



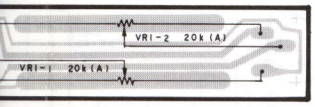
——— PLAY MODE
– – – – REC MODE

- *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.*

10. CONNECTION DIAGRAM (2) (SK-700)

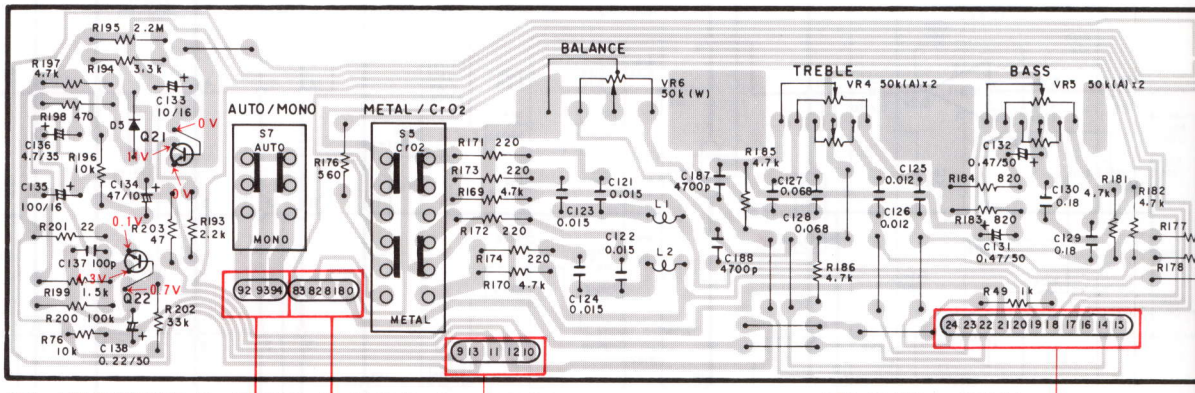


ME UNIT



AF CONTROL UNIT

Q Q22 Q21



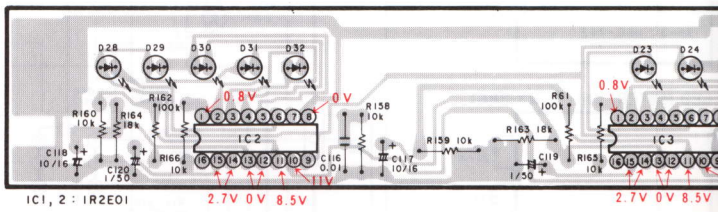
Q19 ~ 22: 2SC536NP-F, 2SC828-Q, 2SC945-P or 2SC1815-Y

D5: DS442 or US1040

TUNER P.C. BOARD
92 ~ 94

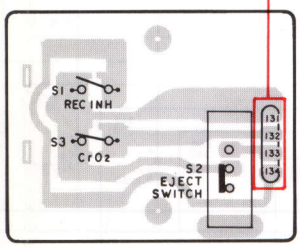
LED METER UNIT

IC IC2 IC3

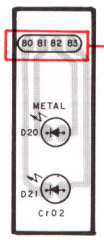


IC1, 2: IR2E01

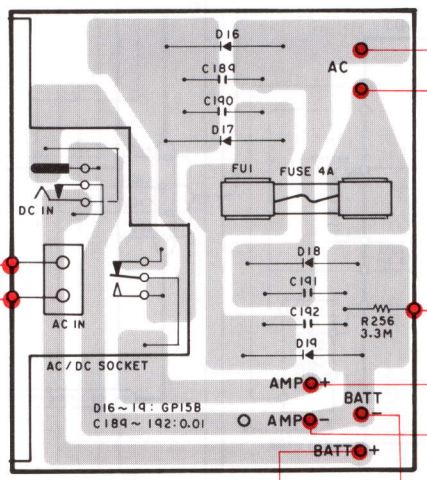
SWITCH UNIT(A)



INDICATOR UNIT



POWER SUPPLY UNIT



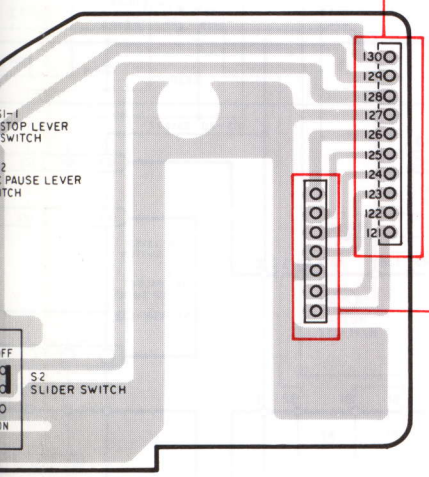
POWER TRASFORM

BATTERY

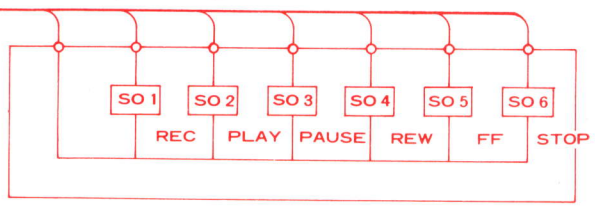
<66>

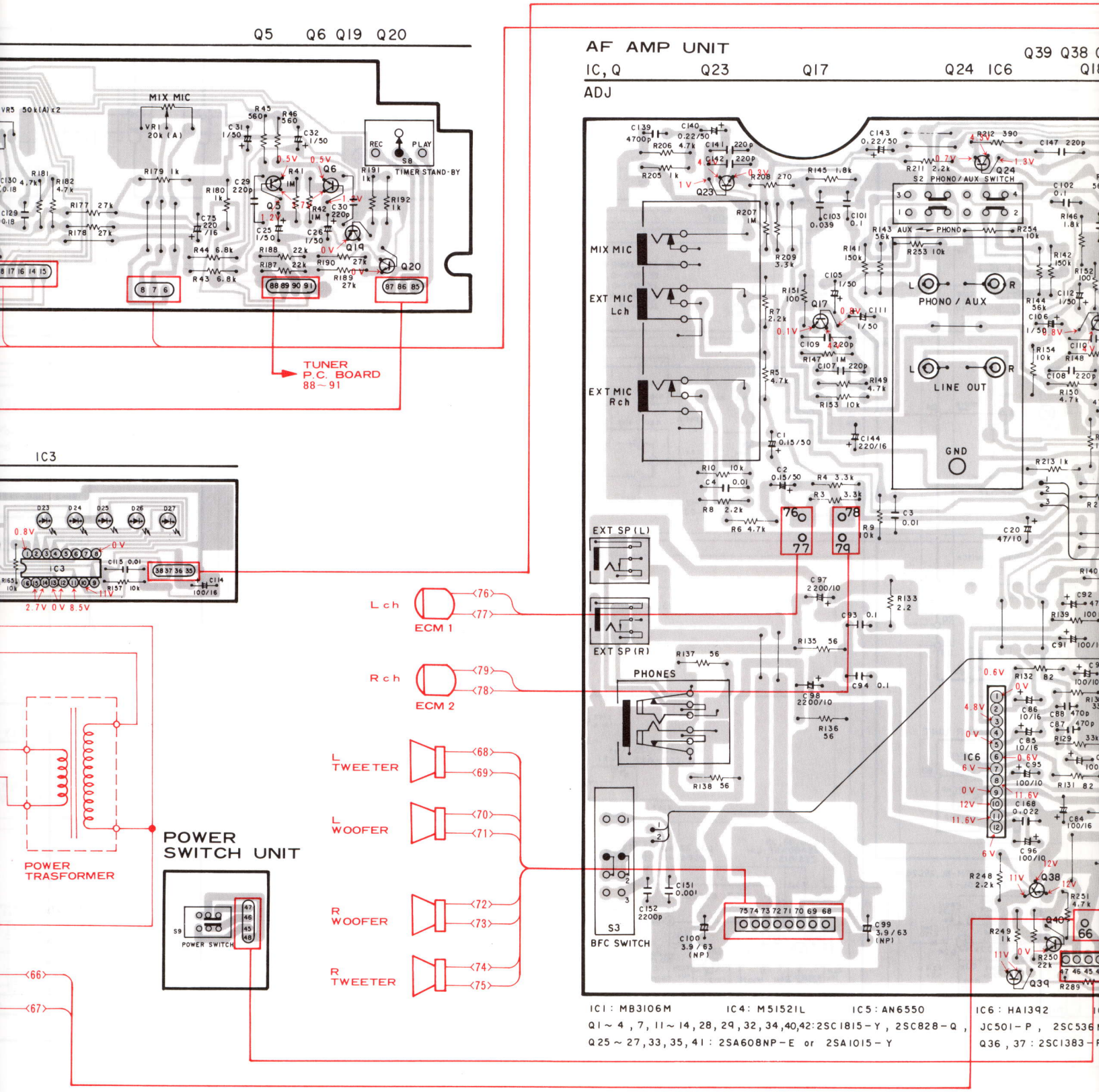
<67>

TCH UNIT(B)



SOLENOID(HXP- 104)




Q5 Q6 Q19 Q20
MIX MIC
VR1 20k (A)
VR5 50k(A)x2
REC
PLAY
S8
TIMER STAND-BY
8 17 16 14 15
8 7 6
88 89 90 91
87 86 85
TUNER P.C. BOARD 88~91
AF AMP UNIT
IC, Q
Q23
Q17
Q24 IC6
ADJ
Q39 Q38
MIX MIC
EXT MIC Lch
EXT MIC Rch
PHONO / AUX
LINE OUT
GND
S2 PHONO/AUX SWITCH
EXT SP (L)
EXT SP (R)
PHONES
S3
BFC SWITCH
IC6
IC3
2.7V 0V 8.5V
L ch
R ch
ECM 1
ECM 2
L TWEETER
L WOOFER
R WOOFER
R TWEETER
POWER TRASFORMER
POWER SWITCH UNIT
POWER SWITCH
S9
IC1 : MB3106M IC4 : M51521L IC5 : AN6550
IC6 : HA1392
Q1~4, 7, 11~14, 28, 29, 32, 34, 40, 42 : 2SC1815-Y, 2SC828-Q,
Q25~27, 33, 35, 41 : 2SA608NP-E or 2SA1015-Y
JC501-P, 2SC536
Q36, 37 : 2SC1383-

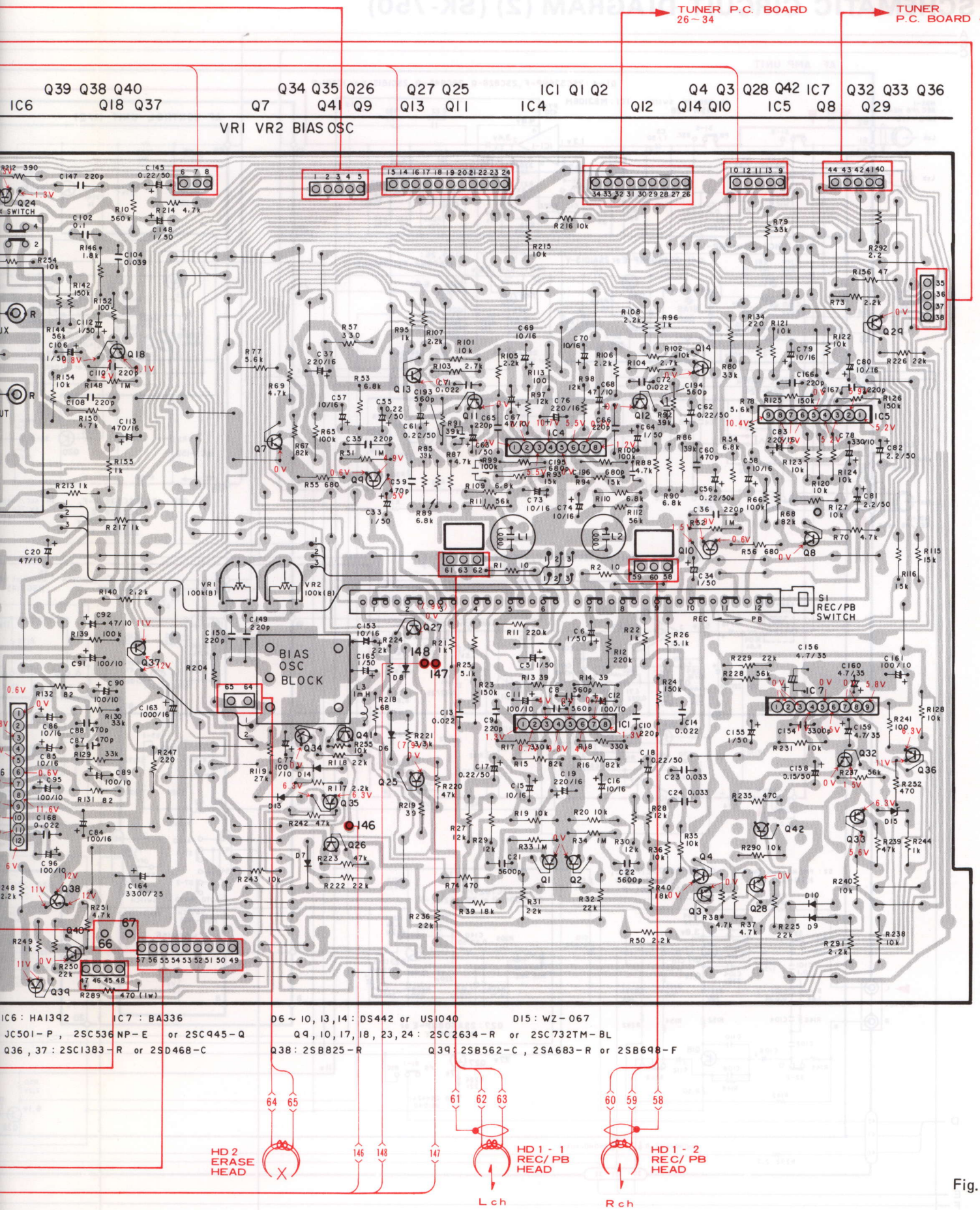
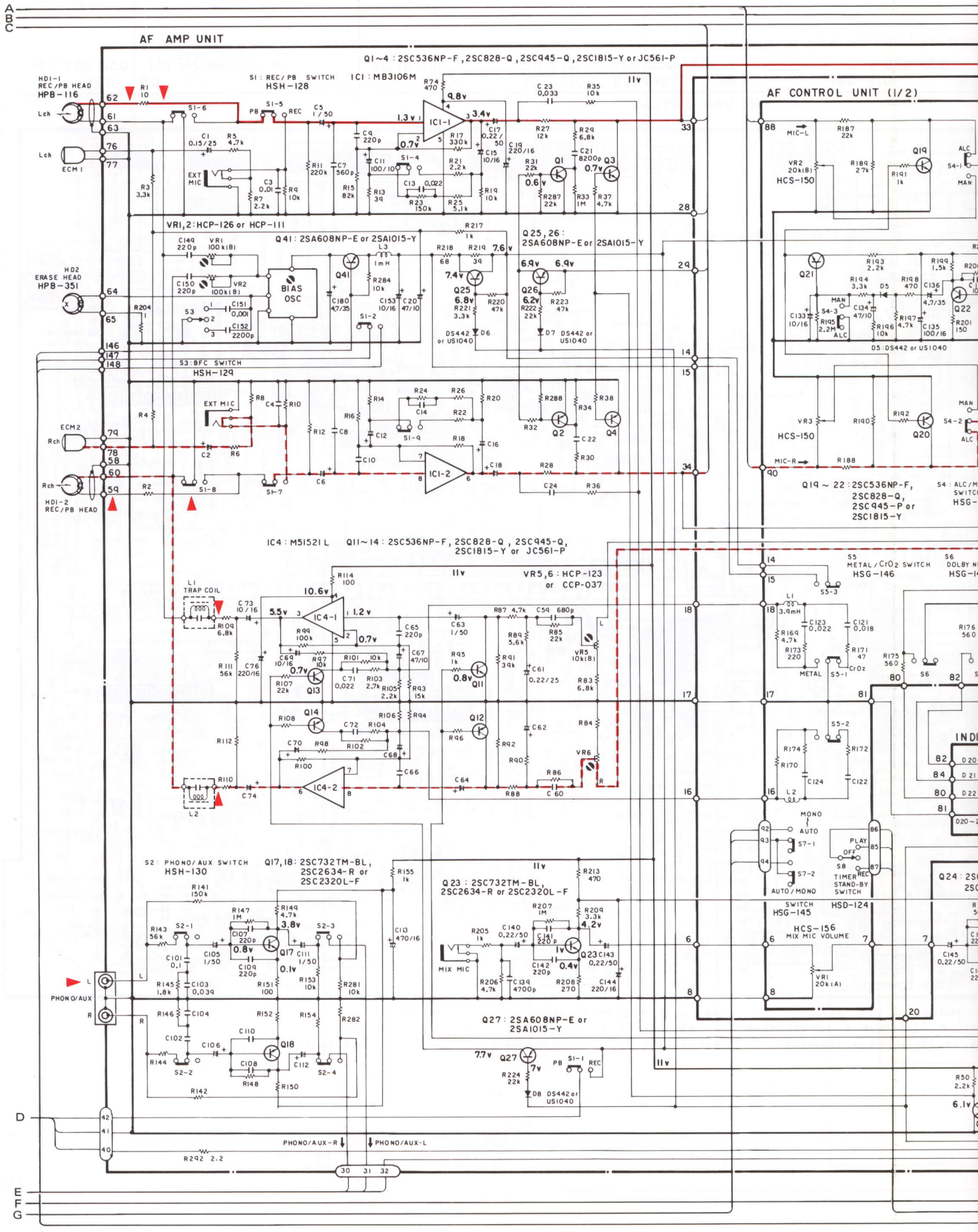
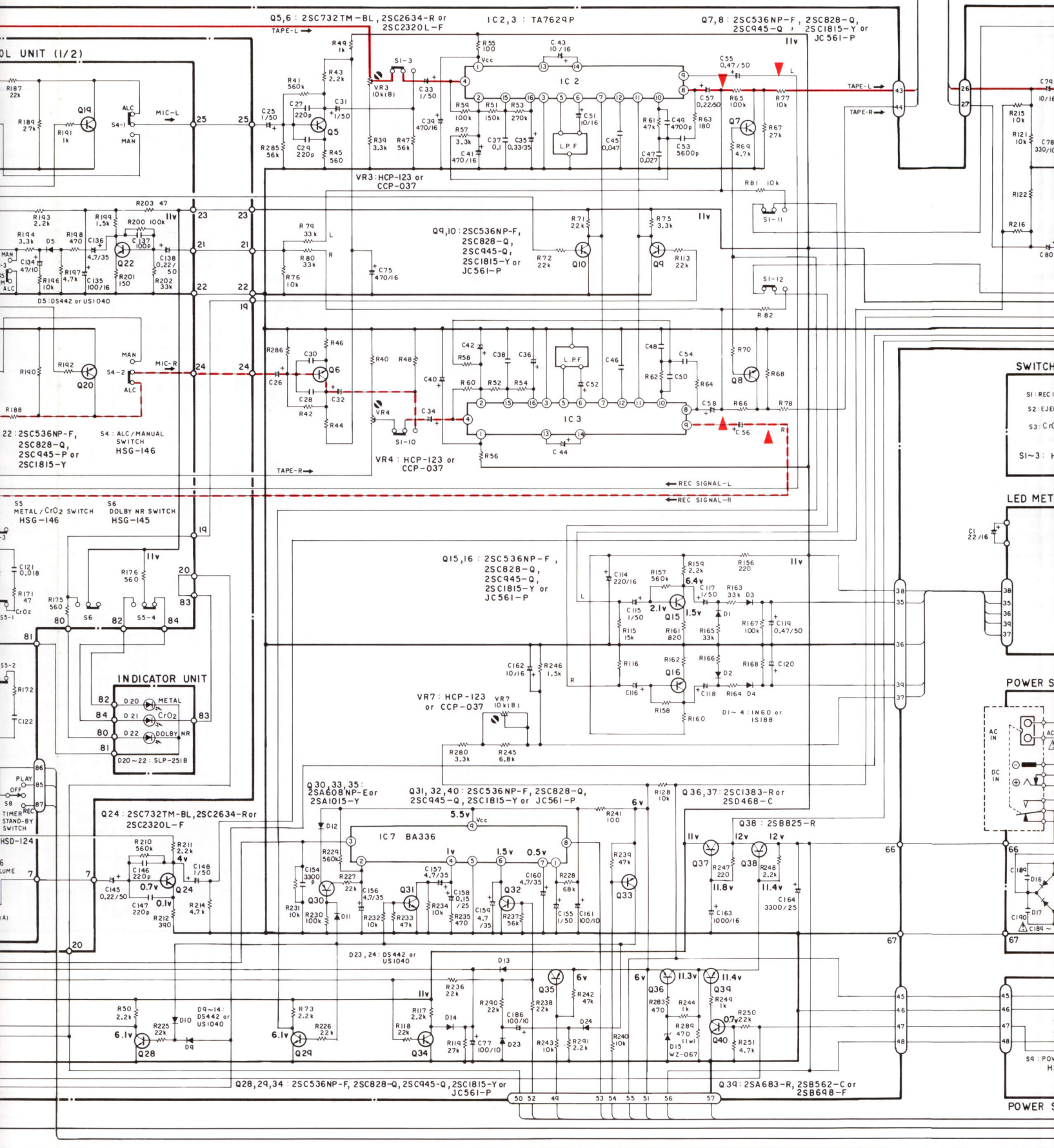
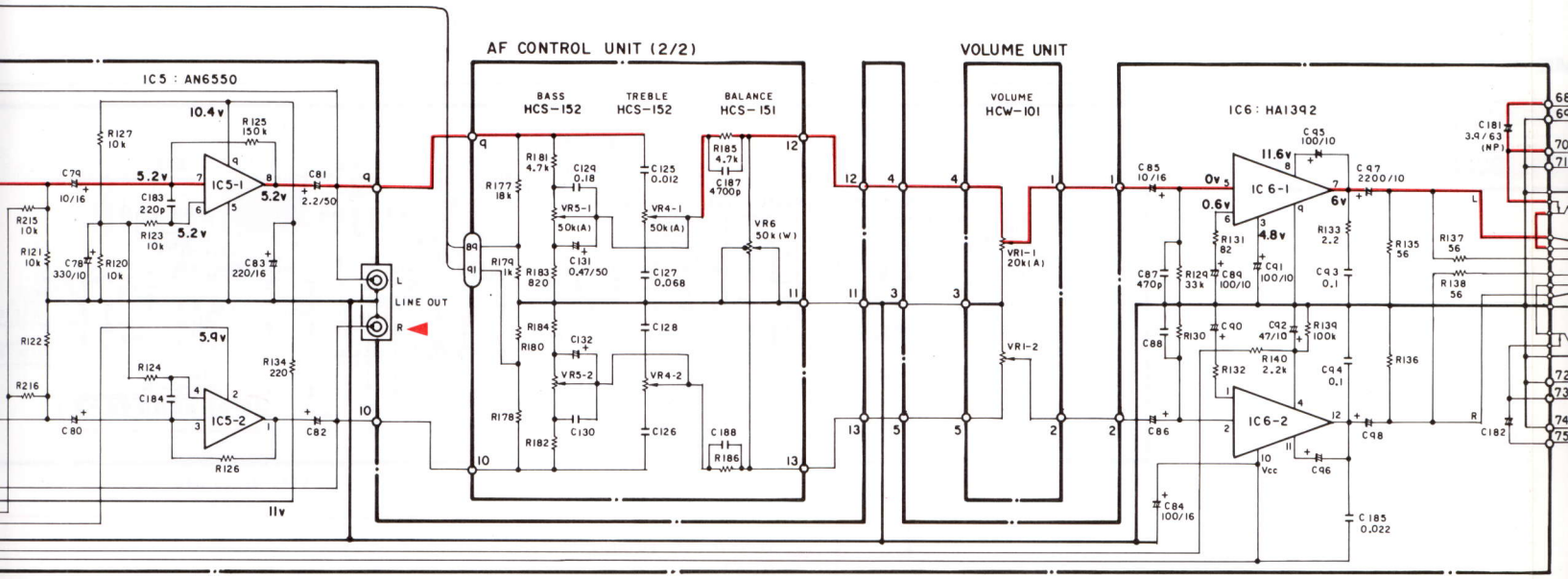

10
11
12
TUNER P.C. BOARD 26 ~ 34
TUNER P.C. BOARD 40 ~ 44
Q39 Q38 Q40 IC6 Q18 Q37
Q34 Q35 Q26 Q7 Q41 Q9
Q27 Q25 Q13 Q11
IC1 Q1 Q2 IC4
Q4 Q3 Q12 Q14 Q10
Q28 Q42 IC7 IC5 Q8
Q32 Q33 Q36 Q29
VR1 VR2 BIAS OSC
A
B
C
D
BIAS OSC BLOCK
S1 REC/PB SWITCH
REC
PB
IC6 : HA1392
IC7 : BA336
JC501-P , 2SC536NP-E or 2SC945-Q
D6 ~ 10, 13, 14 : DS442 or US1040
D15 : WZ-067
Q9, 10, 17, 18, 23, 24 : 2SC2634-R or 2SC732TM-BL
Q36 , 37 : 2SC1383-R or 2SD468-C
Q38 : 2SB825-R
Q39 : 2SB562-C , 2SA683-R or 2SB698-F
HD 2 ERASE HEAD
HD 1 - 1 REC/PB HEAD
L ch
HD 1 - 2 REC/PB HEAD
R ch

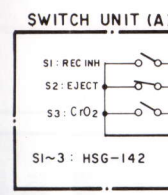
Fig. 50

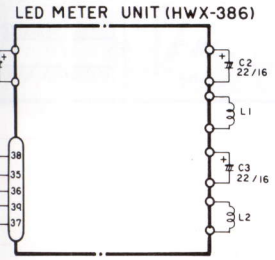
11. SCHEMATIC CIRCUIT DIAGRAM (2) (SK-750)

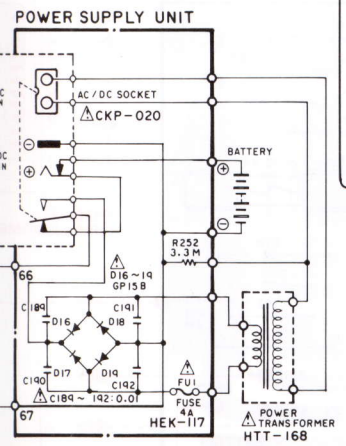


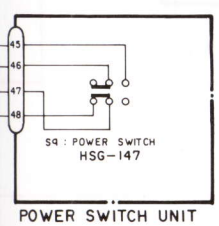

Q5,6 : 2SC732TM-BL, 2SC2634-R or 2SC2320L-F
IC2,3 : TA7629P
Q7,8 : 2SC536NP-F, 2SC828-Q, 2SC945-Q, 2SC1815-Y or JC561-P
TAPE-L
TAPE-R
IC 2
IC 3
L.P.F
VR3 : HCP-123 or CCP-037
VR4 : HCP-123 or CCP-037
VR7 : HCP-123 or CCP-037
Q9,10 : 2SC536NP-F, 2SC828-Q, 2SC945-Q, 2SC1815-Y or JC561-P
Q15,16 : 2SC536NP-F, 2SC828-Q, 2SC945-Q, 2SC1815-Y or JC561-P
Q22 : 2SC536NP-F, 2SC828-Q, 2SC945-P or 2SC1815-Y
S4 : ALC/MANUAL SWITCH HSG-146
S5 METAL/CrO2 SWITCH HSG-146
S6 DOLBY NR SWITCH HSG-145
REC SIGNAL-L
REC SIGNAL-R
INDICATOR UNIT
D20 METAL
D21 CrO2
D22 DOLBY NR
D20~22 : SLP-2518
D1~4 : 1N60 or 1S188
D5 : DS442 or US1040
D23,24 : DS442 or US1040
Q24 : 2SC732TM-BL, 2SC2634-R or 2SC2320L-F
Q30,33,35 : 2SA608NP-E or 2SA1015-Y
Q31,32,40 : 2SC536NP-F, 2SC828-Q, 2SC945-Q, 2SC1815-Y or JC561-P
Q36,37 : 2SC1383-R or 2SD468-C
Q38 : 2SB825-R
Q28,29,34 : 2SC536NP-F, 2SC828-Q, 2SC945-Q, 2SC1815-Y or JC561-P
Q39 : 2SA683-R, 2SB562-C or 2SB698-F
SWITCH
LED MET
POWER S
AC IN
DC IN

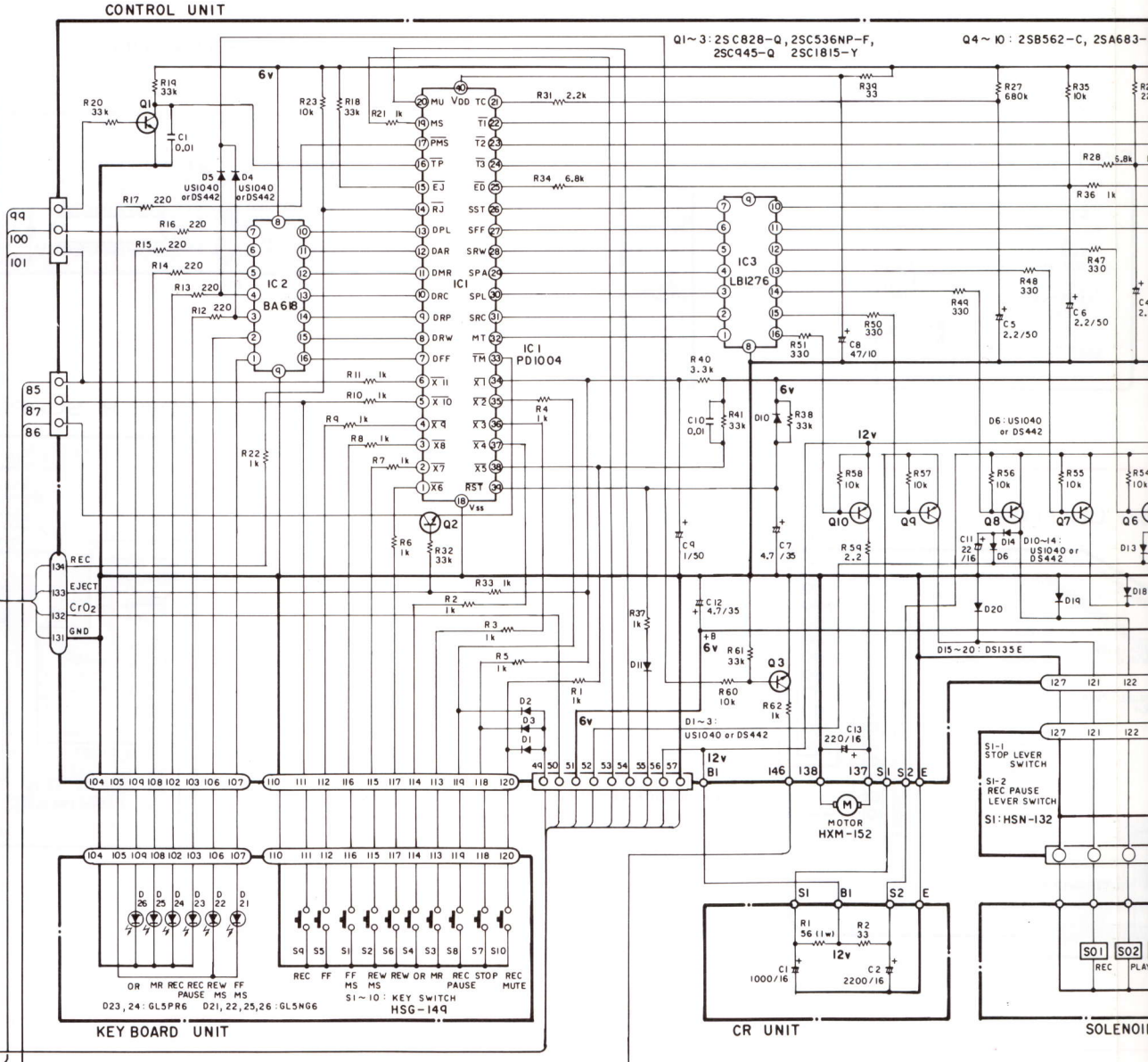

IC5 : AN6550
AF CONTROL UNIT (2/2)
BASS HCS-152
TREBLE HCS-152
BALANCE HCS-151
VOLUME UNIT
VOLUME HCW-101
IC6 : HA1392
LINE OUT
IC5-1
IC5-2
IC6-1
IC6-2
VR5-1 50k(A)
VR4-1 50k(A)
VR6 50k(W)
VR1-1 20k(A)
VR1-2
10.4v
5.2v
5.9v
11v
11.6v
4.8v
6v
0.6v

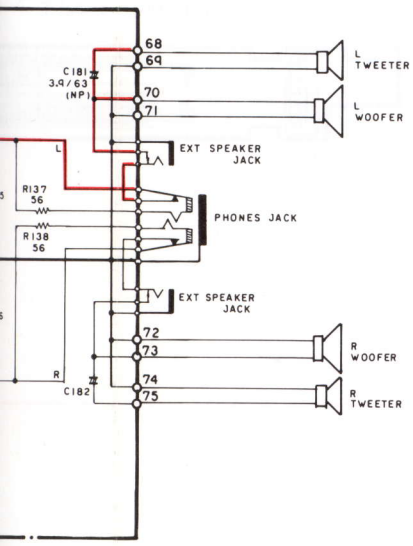

SWITCH UNIT (A)
S1 : REC INH
S2 : EJECT
S3 : CrO2
S1~3 : HSG-142


LED METER UNIT (HWX-386)
L1
L2


POWER SUPPLY UNIT
AC/DC SOCKET
CKP-020
BATTERY
FUSE 4A
HEK-117
POWER TRANSFORMER
HTT-168


S9 : POWER SWITCH
HSG-147
POWER SWITCH UNIT


CONTROL UNIT
Q1~3 : 2SC828-Q, 2SC536NP-F, 2SC945-Q 2SC1815-Y
Q4~10 : 2SB562-C, 2SA683-
IC1 PD1004
IC2 8A618
IC3 LB1276
D1~3 : US1040 or DS442
D4 US1040 or DS442
D5 US1040 or DS442
D6 : US1040 or DS442
D15~20 : DSI35E
MOTOR HXM-152
S1-1 STOP LEVER SWITCH
S1-2 REC PAUSE LEVER SWITCH
S1 : HSN-132
KEY BOARD UNIT
D23, 24 : GL5PR6 D21, 22, 25, 26 : GL5NG6
S1~10 : KEY SWITCH HSG-149
CR UNIT
SOLENOI



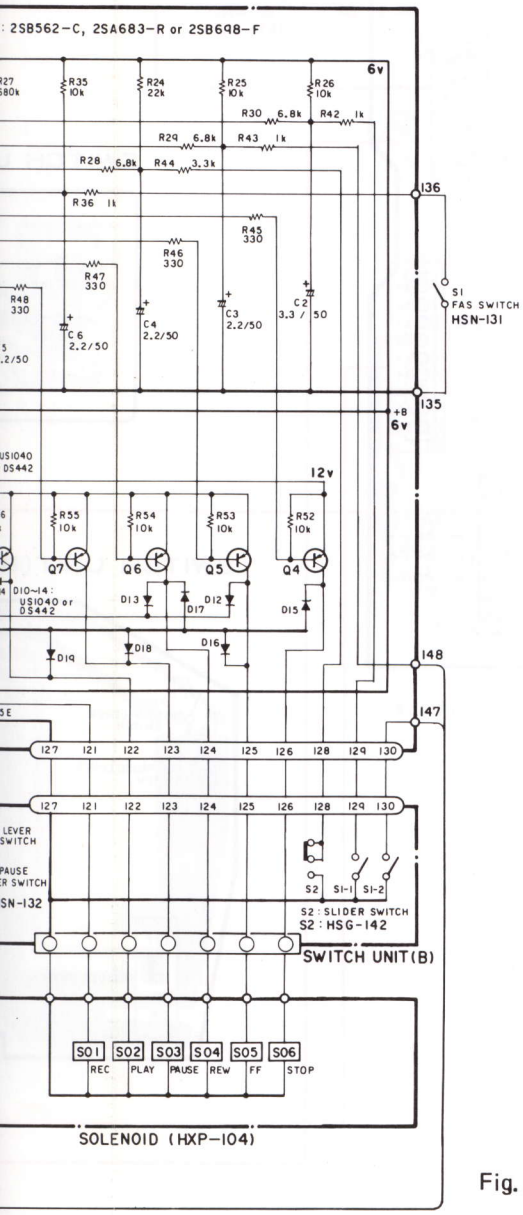
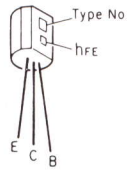


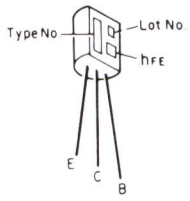
Fig. 51

• Transistors

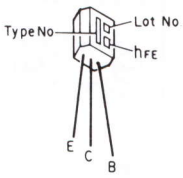
JC501



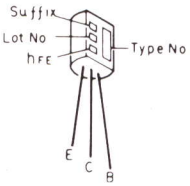
2SC380TM



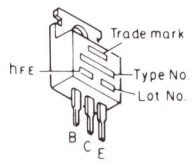
2SD1012



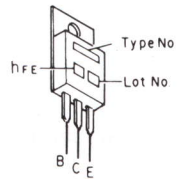
2SC2320L



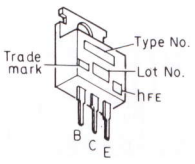
2SD880



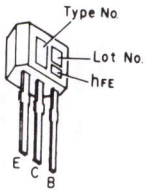
2SB825



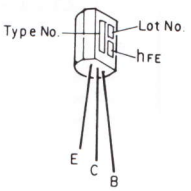
2SD1061



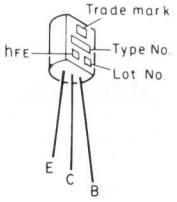
2SC2839
2SC2840



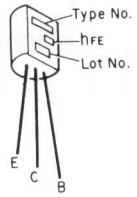
2SC536NP



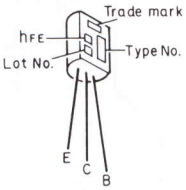
2SC828
2SC2634



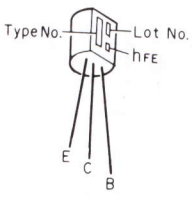
2SB562
2SD468



2SA683
2SC1393



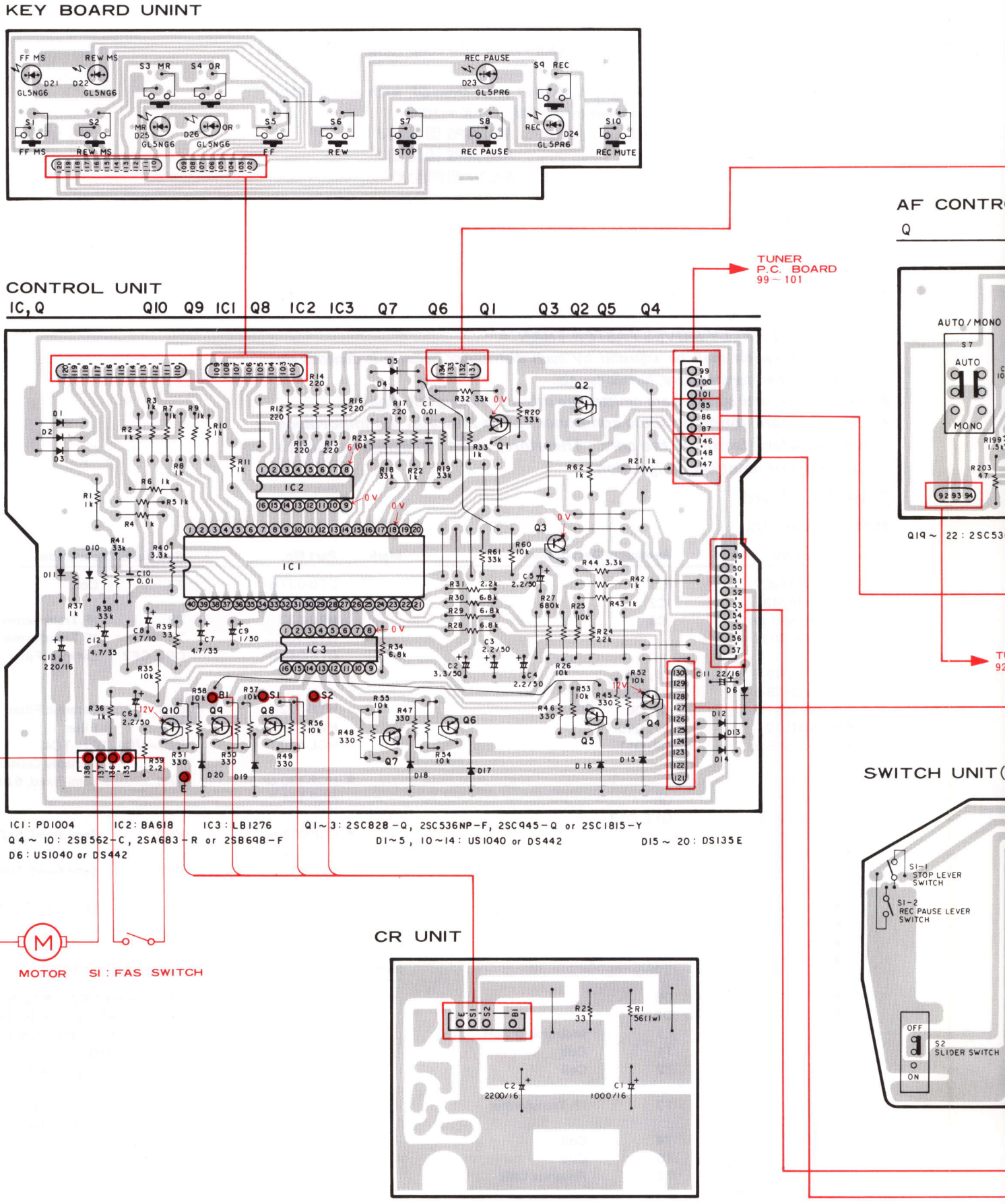
2SA608NP
2SA1015
2SB621
2SB698
2SC732
2SC945
2SC1815



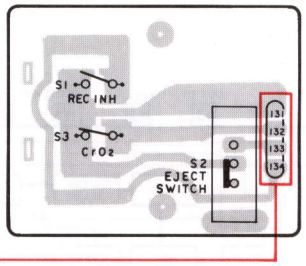
——— PLAY MODE
– – – – REC MODE

- *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.*

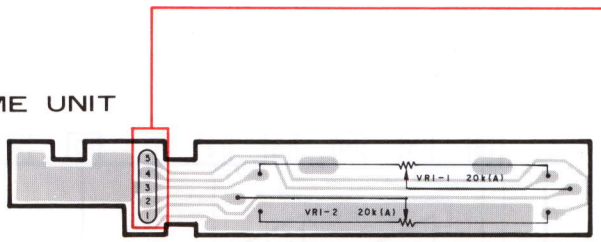
12. CONNECTION DIAGRAM (2) (SK-750)



SWITCH UNIT(A)

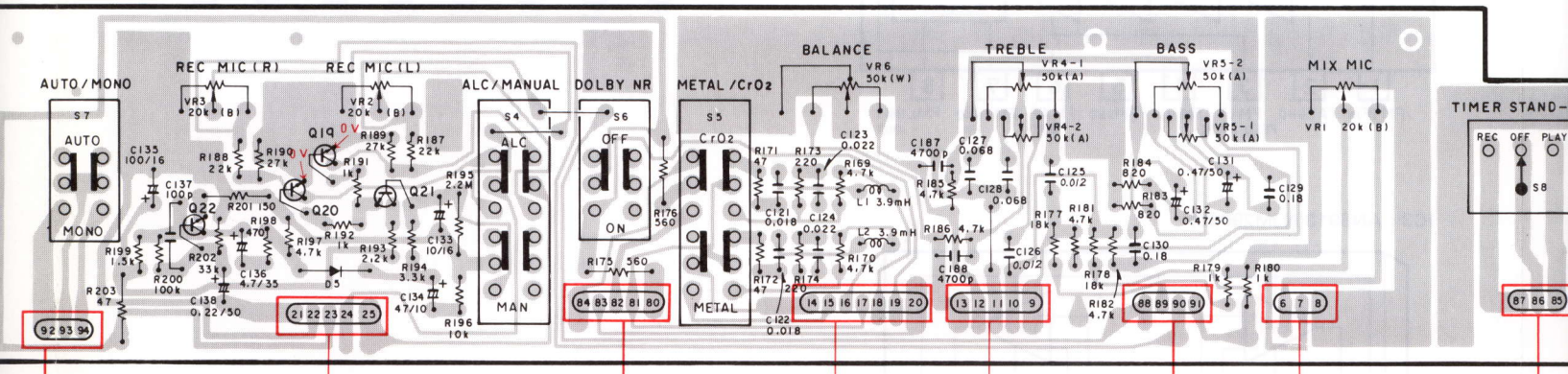


VOLUME UNIT



AF CONTROL UNIT

Q Q22 Q20 Q19 Q21

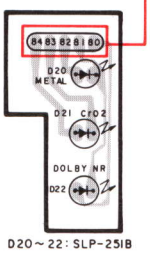


Q19~22 : 2SC536NP-F, 2SC828-Q, 2SC945-P or 2SC1815-Y

D5 : DS442 or US1040

TUNER P.C. BOARD 92~94

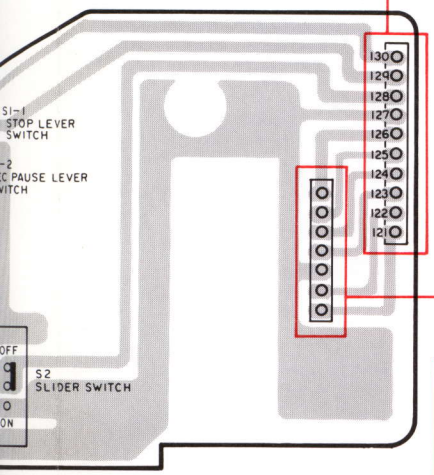
INDICATOR UNIT



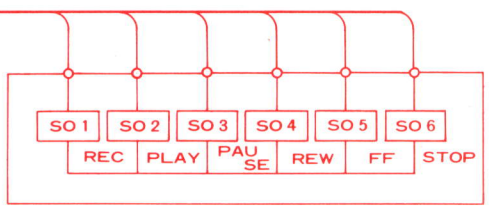
D20~22 : SLP-2518

TUNER P.C. BOARD 88~91

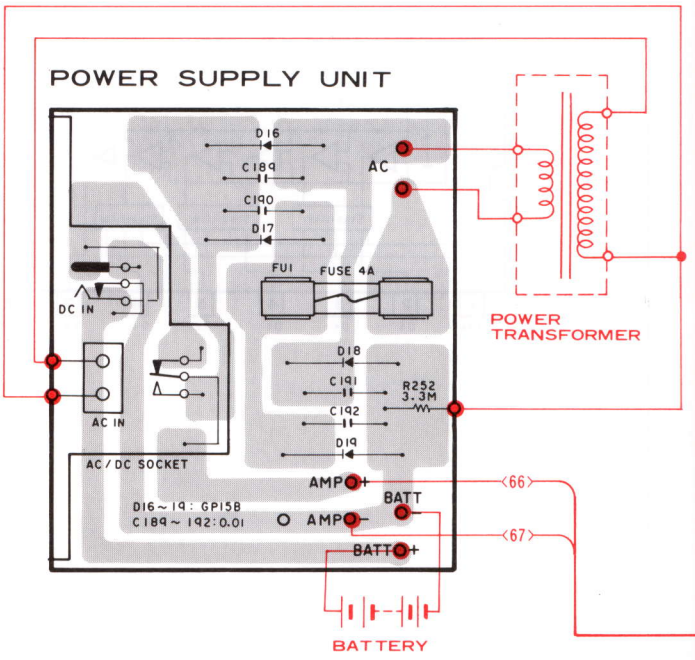
TCH UNIT(B)

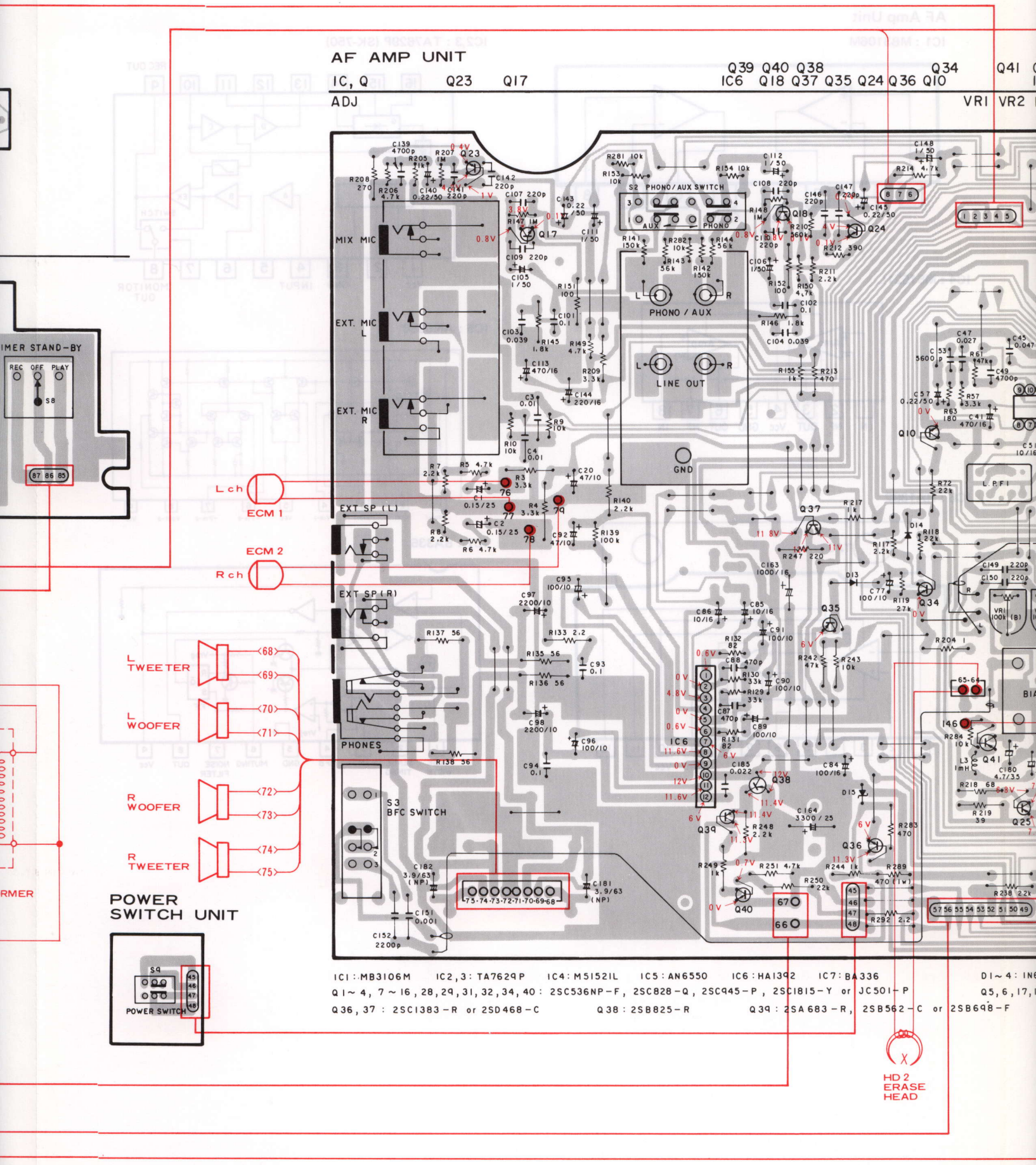


SOLENOID(HXP-104)



POWER SUPPLY UNIT




AF AMP UNIT
IC, Q Q23 Q17
Q39 Q40 Q38 Q34 Q41
IC6 Q18 Q37 Q35 Q24 Q36 Q10
ADJ
VR1 VR2
MIX MIC
EXT. MIC L
EXT. MIC R
PHONO / AUX
LINE OUT
GND
S2 PHONO/AUX SWITCH
EXT SP (L)
EXT SP (R)
PHONES
S3 BFC SWITCH
L.P.F.1
L ch
ECM 1
ECM 2
R ch
L TWEETER
L WOOFER
R WOOFER
R TWEETER
POWER SWITCH UNIT
POWER SWITCH
HD 2 ERASE HEAD
IMER STAND-BY
REC OFF PLAY
S8
IC1 : MB3106M IC2,3 : TA7629P IC4 : M51521L IC5 : AN6550 IC6 : HA1392 IC7 : BA336
D1~4 : IN
Q1~4, 7~16, 28, 29, 31, 32, 34, 40 : 2SC536NP-F, 2SC828-Q, 2SC945-P, 2SC1815-Y or JC501-P
Q5, 6, 17,
Q36, 37 : 2SC1383-R or 2SD468-C
Q38 : 2SB825-R
Q39 : 2SA683-R, 2SB562-C or 2SB698-F

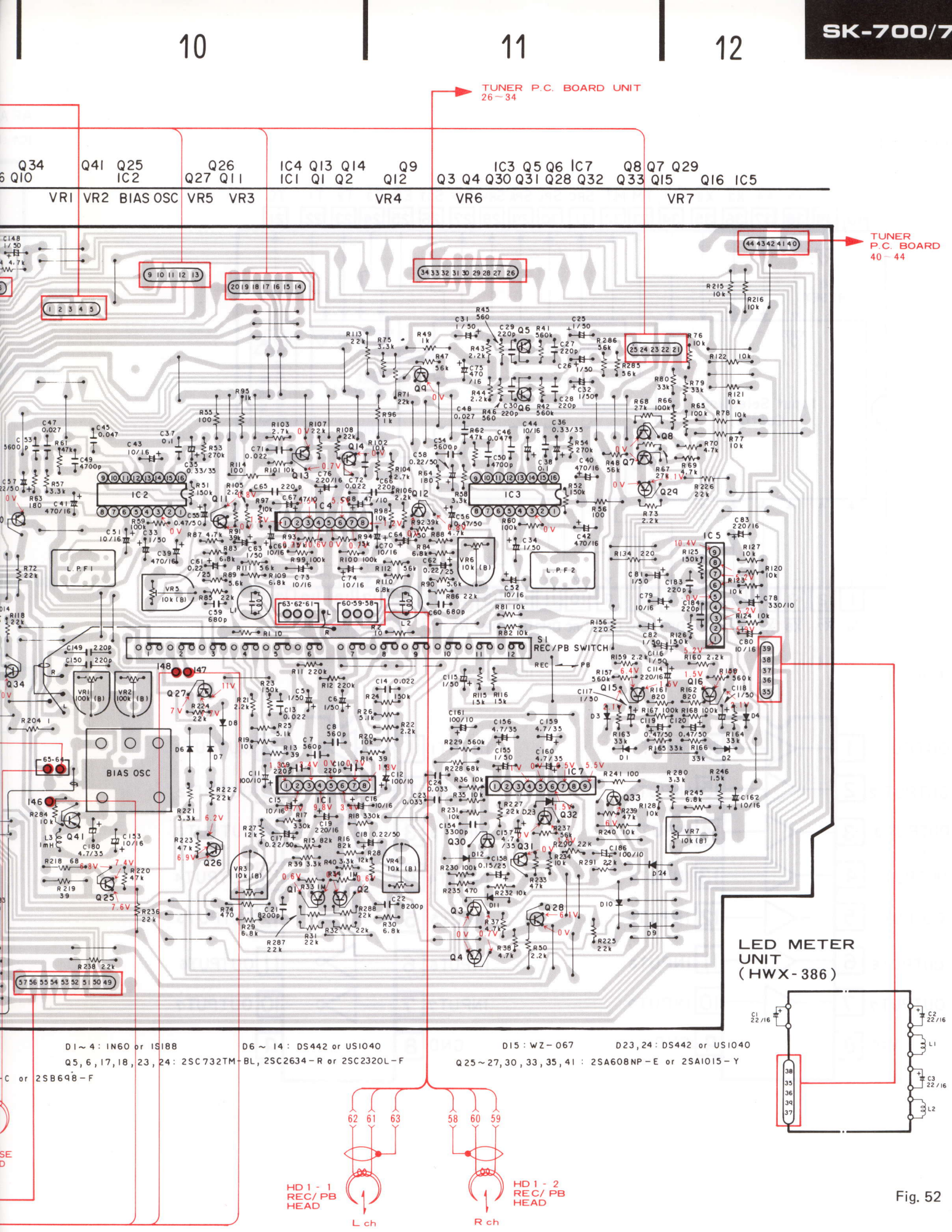
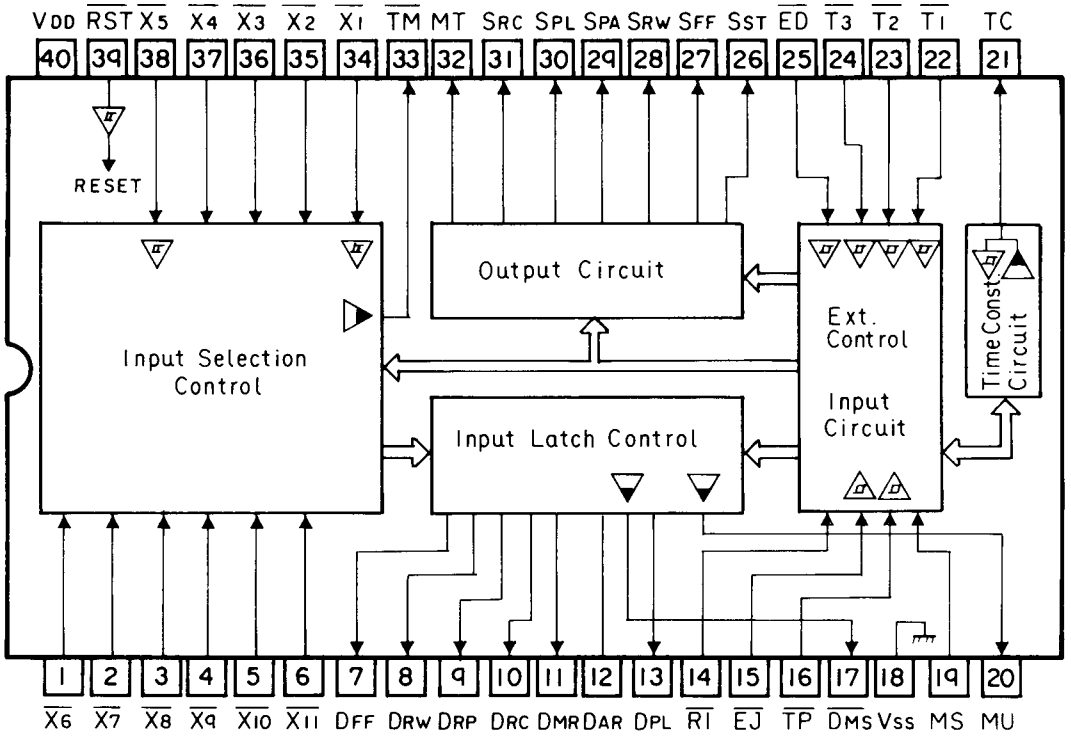

10
11
12
TUNER P.C. BOARD UNIT
26 – 34
Q34
6 Q10
Q41 Q25
IC2
Q26
Q27 Q11
IC4 Q13 Q14
IC1 Q1 Q2
Q9
Q12
IC3 Q5 Q6 IC7
Q3 Q4 Q30 Q31 Q28 Q32
Q8 Q7 Q29
Q33 Q15
Q16 IC5
VR1 VR2 BIAS OSC VR5 VR3
VR4
VR6
VR7
TUNER
P.C. BOARD
40 – 44
A
B
C
D
L.P.F.1
L.P.F.2
S1
REC/PB SWITCH
REC
PB
BIAS OSC
LED METER
UNIT
(HWX-386)
HD 1 - 1
REC/ PB
HEAD
L ch
HD 1 - 2
REC/ PB
HEAD
R ch
D1 ~ 4 : IN60 or IS188
D6 ~ 14 : DS442 or USI040
D15 : WZ-067
D23, 24 : DS442 or USI040
Q5, 6, 17, 18, 23, 24 : 2SC732TM-BL, 2SC2634-R or 2SC2320L-F
Q25 ~ 27, 30, 33, 35, 41 : 2SA608NP-E or 2SAI015-Y
-C or 2SB698-F

Fig. 52

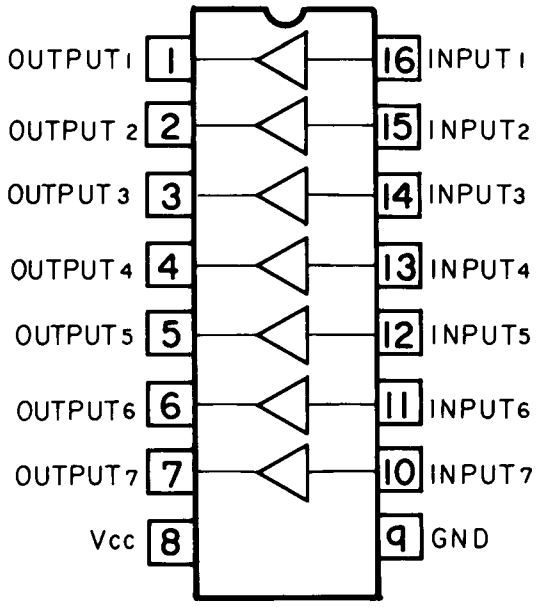
- **IC's**

Control Unit

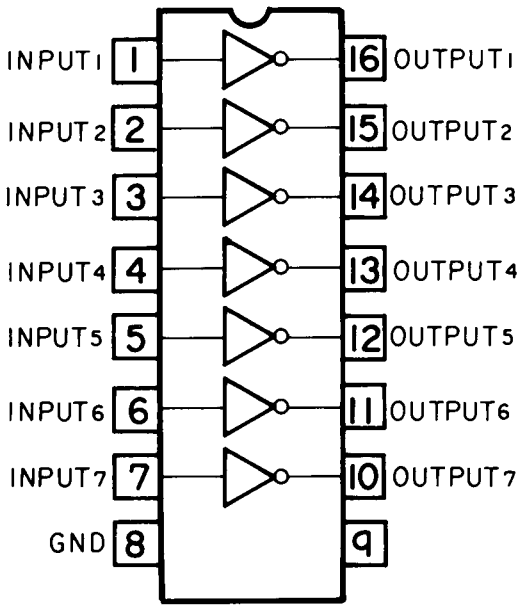
IC1 : PD1004



IC2 : BA618

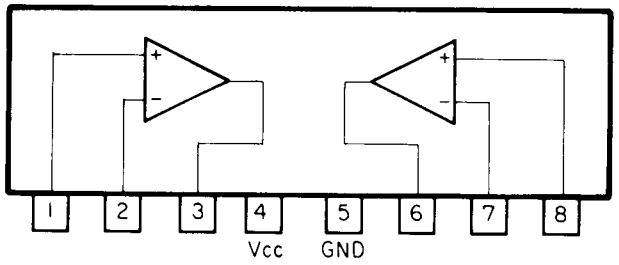


IC3 : LB1276

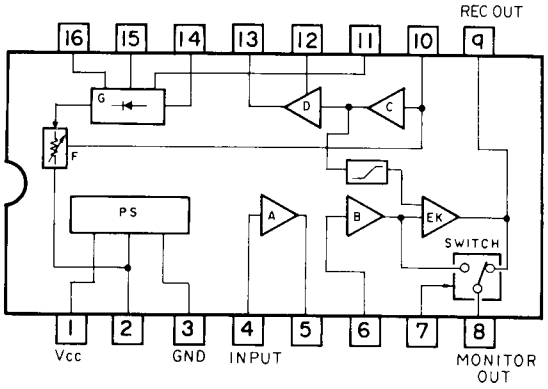


AF Amp Unit

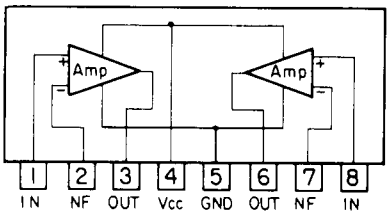
IC1 : MB3106M



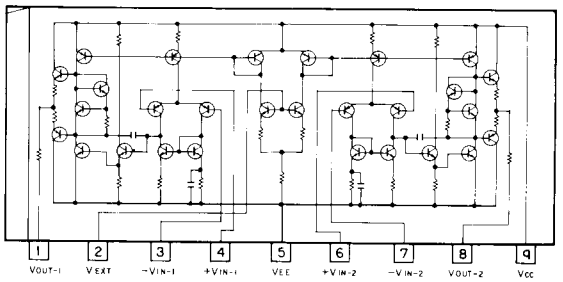
IC2,3 : TA7629P (SK-750)



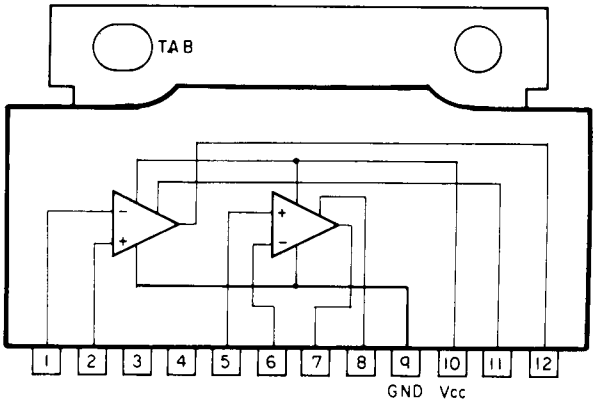
IC4 : M51521L



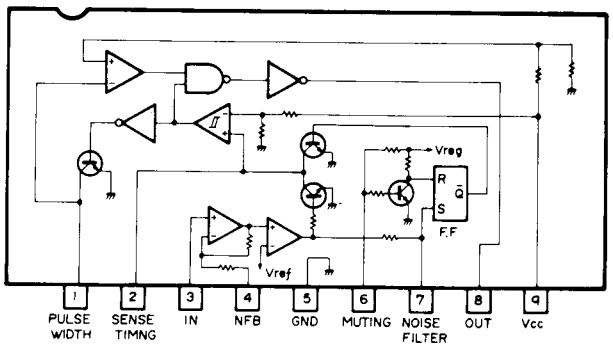
IC5 : AN6550



IC6 : HA1392

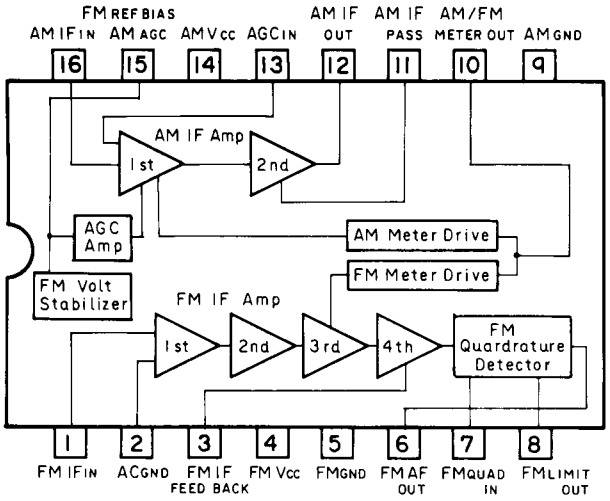


IC7 : BA336

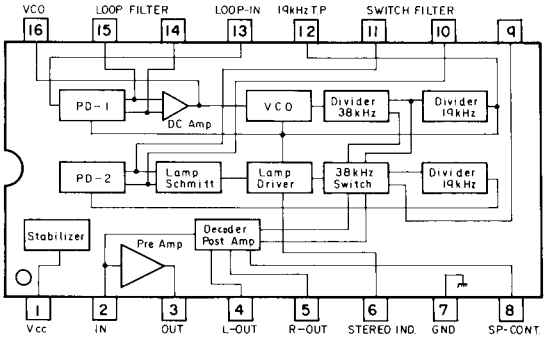


Tuner P.C. Board

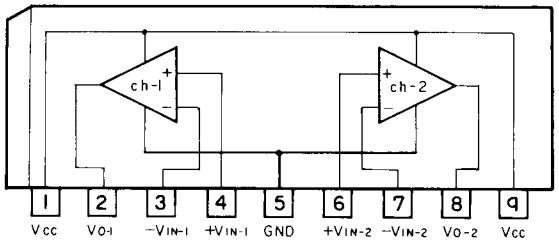
IC1 : KB4419C



IC2 : KB4424B

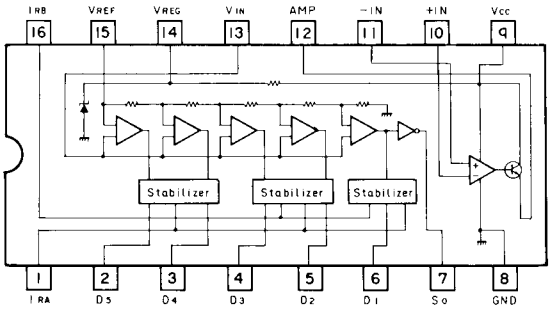


IC3 : AN6913(NJM2903S)



LED Meter Unit (SK-700)

IC2,3 : IR2E01



13. 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 × 10^1 561 . . . . . RD1/4PS 5 6 1 J

47kΩ 47 × 10^3 473 . . . . . 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 × 10^1 . . . . . 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.*

Tuner P.C. Board

MISCELLANEOUS

Mark	Part No.	Symbol & Description	
★★	KB4419C	IC1	
★★	KB4424B	IC2	
★★	AN6913 or NJM2903S	IC3	
★★	2SC2840-E	Q1, Q2	
★★	2SC2839-E	Q3, Q4	
★★	2SC380TM-Y	Q5, Q6	
★★	2SD1012	Q7, Q10	
★★	2SC1815 or JC501	Q8, Q11	
	VACANT	Q9	
★★	2SB698 or 2SB621	Q12, Q13	
★★	2SD880-Y or 2SD1061-R	Q14	
★	1S188FM-1	D1	
★	1S2473VH	D2, D4	
★	MV-11	D3	
★	CZ060	D5	
★	ITT410	D6	
★	RD6.8EB2	D7	
	HTF-123	L1	Inductor, 2.2μH
	CTC-061	T1	Coil
	HTC-134	T2	Coil
	CTC-040 or CTC-028	T3	IF Transformer
	HTE-131	T4	Coil
	HTE-132	T5	Coil
	HTX-138	T6	Antenna Unit
	CTB-037 or CTB-031	T7	Coil
	HTE-133	T8	IF Transformer
	HTE-134	T9	IF Transformer
	CTF-040 or HTF-119	CF1, CF2	Ceramic Filter
	HTF-122	CF3	Ceramic Filter
	HWW-106	BPF	Filter
	HCL-110	VC1–VC4, TC1–TC4	Variable Capacitor
★	HCP-130 or HCP-131	VR1	Semi-fixed, 6.8kΩ(B)
★	CCP-053 or HCP-122	VR2	Semi-fixed, 5kΩ(B)
★	CCP-037 or HCP-123	VR3	Semi-fixed, 10kΩ(B)
★★	HSG-148	S1	Switch (FUNCTION)

RESISTORS

Mark	Part No.	Symbol & Description	
	RD1/4PM □□□J	R1–R15, R17, R21–R32, R36–R39, R41, R43–R50, R52, R55–R65, R67, R68, R70–R87, R91–R94, R96, R97	
	RD1/4VM □□□J	R16, R40, R69	
	HCN-103	R42	10Ω 1/4W
	HCN-113	R51	15Ω 1/4W
	HCN-110	R66	4.7Ω 1/4W
	VACANT	R18–R20, R33–R35, R53, R54, R88–R90, R95	

CAPACITORS

Mark	Part No.	Symbol & Description
	CCPSL180J50	C1
	CCPCH3R3K50	C2
	CCPCH6R8K50	C3
	CCPRH240J50	C4
	CCPSL101J50	C5, C22
	CKPYX103N25	C6, C8, C16, C17, C21, C23–C26, C31, C39, C40, C59
	CCPSL010M50	C7
	CKDYF103Z25	C9
	CEA010M50L	C10, C37, C48, C49, C53–C55
	CCDRH030C50	C11
	CCPRH160J50	C12
	CCPRH100J50	C13
	CCPRH330J50	C14
	CCPRH180J50	C15
	VACANT	C18–C20
	CCPUJ8R2K50	C27
	CKDYF403Z25	C28, C30, C33, C41, C63
	CCDSL030C50	C29
	CKPYX103N25	C32
	VACANT	C34
	CCDSL221K50	C35
	CEA100M16L	C36, C38, C42, C64
	CEAR47M50L	C43, C46, C47, C58
	VACANT	C44, C45
	CQMA273K50	C50, C51
	CQSH471J50	C52
	CEA330M16L	C56
	CQMA473K50	C57
	VACANT	C60–C62
	CEA101M10L	C65

LED Unit (A)

Mark	Part No.	Symbol & Description	
★	GL5PR6	D9	LED (Red)

LED Unit (B)

Mark	Part No.	Symbol & Description	
★	GL5NG6	D8	LED (Green)

LED Unit (C)

Mark	Part No.	Symbol & Description	
★	GL5NG6	D10–D14	LED (Green)
★	GL5PR6	D15	LED (Red)

AF Amp Unit (SK-700)

MISCELLANEOUS

Mark	Part No.	Symbol & Description	
★★	MB3106M	IC1	
★★	M51521L	IC4	
★★	AN6550	IC5	
★★	HA1392	IC6	
★★	BA336	IC7	
★★	2SC1815 or 2SC828 or JC501 or 2SC536NP or 2SC945	Q1–Q4, Q7, Q8, Q11–Q14, Q28, Q29, Q32, Q34, Q40, Q42	
★★	2SC2634 or 2SC732TM	Q9, Q10, Q17, Q18, Q23, Q24	
★★	2SA608NP or 2SA1015	Q25–Q27, Q33, Q35, Q41	
★★	2SC1383 or 2SD468	Q36, Q37	
★★	2SB825	Q38	
★★	2SB562 or 2SA683 or 2SB698	Q39	
★	DS442 or US1040	D6–D10, D13, D14	
★	WZ-067	D15	
	HTF-124	L1, L2	Coil
	HTF-117	L3	Coil, 1mH
★	HCP-126 or HCP-111	VR1, VR2	Semi-fixed, 100kΩ(B)
★★	HSH-128	S1	Switch (REC/PB)
★★	HSH-130	S2	Switch (PHONO/AUX)
★★	HSH-129	S3	Switch (BFC)
	HTX-139	OSC	

RESISTORS

Mark	Part No.	Symbol & Description	
	RD1/4PM □□□J	R1–R40, R50–R56, R65–R70, R73, R74, R77–R80, R85–R113, R115–R132, R134–R155, R183, R184, R205–R207, R209, R211, R213–R217, R219–R226, R228, R229, R231, R235–R244, R247–R254, R290	
	RD1/4VM □□□J	R57, R133, R204, R208, R210, R212, R218, R255	
	VACANT	R41–R49, R58–R64, R71, R72, R75, R76, R81–R84, R114, R157–R182, R185–R203, R227, R230, R232–R234, R245, R246, R256–R288, R291	
	HCN-102	R156	47Ω 1/4W
	RS1P □□□K	R289	
	HCN-104	R292	2.2Ω 1/4W

CAPACITORS

Mark	Part No.	Symbol & Description
	CSYAR15M25SAN	C1, C2, C158
	CKPYX103N25	C3, C4
	CEA010M50L	C5, C6, C33, C34, C63, C64, C105, C106, C111, C112, C148, C155, C165
	CKDYB561K50	C7, C8, C193, C194
	CKDYB221K50	C9, C10, C166, C167
	CEA101M10L	C11, C12, C77, C89, C90, C91, C95, C96, C161
	CQMA223J50	C13, C14, C71, C72
	CEA100M16L	C15, C16, C57, C58, C69, C70, C73, C74, C79, C80, C85, C86, C153
	CEAR22M50L	C17, C18, C55, C56, C61, C62, C140, C143, C145
	CEA221M16L	C19, C37, C76, C83, C144
	CEA470M10L	C20, C67, C68, C92
	CQMA562J50	C21, C22
	CQMA333K50	C23, C24
	VACANT	C25–C32
	CKPYB221K50	C35, C36, C65, C66, C107–C110, C141, C142, C147, C149, C150
	VACANT	C38–C54, C75
	CKPYB471K50	C59, C60, C87, C88
	CEA331M10L	C78
	CEA2R2M50L	C81, C82
	CEA101M16L	C84
	CQMA104K50	C93, C94, C101, C102
	CEA222M10L	C97, C98
	HCH-121	C99, C100 3.9μF/63V
	CQMA393K50	C103, C104
	CEA471M16L	C113
	VACANT	C114–C138, C146, C157, C162
	CQMA472K50	C139
	CKDYB102K50	C151
	CKDYB222K50	C152
	CQMA332K50	C154
	CEA4R7M35L	C156, C159, C160
	CEA102M16L	C163
	HCH-119	C164 3300μF/25V
	CQMA223K50	C168
	VACANT	C169–C192
	CKDYB681K50	C195, C196

AF Amp Unit (SK-750)

MISCELLANEOUS

Mark	Part No.	Symbol & Description
★★	MB3106M	IC1
★★	TA7629P	IC2, IC3
★★	M51521L	IC4
★★	AN6550	IC5
★★	HA1392	IC6
★★	BA336	IC7
★★	2SC536NP or 2SC828 or	Q1–Q4, Q7–Q16, Q28, Q29, Q31, Q32, Q34, Q40
★★	2SC945 or 2SC1815 or JC501	
★★	2SC732TM or 2SC2634 or 2SC2320L-F	Q5, Q6, Q17, Q18, Q23, Q24
★★	2SA608NP or 2SA1015	Q25–Q27, Q30, Q33, Q35, Q41
★★	2SC1383 or 2SD468-C	Q36, Q37
★★	2SB825	Q38
★★	2SA683 or 2SB562-C or 2SB698	Q39
★	1N60 or 1S188	D1–D4
★	DS442 or US1040	D6–D14, D23, D24
★	WZ-067	D15
	HTF-124	L1, L2 Coil
	HTF-117	L3 Coil, 1mH
★	HCP-126 or HCP-111	VR1, VR2 Semi-fixed, 100kΩ(B)
★	HCP-123 or CCP-037	VR3–VR7 Semi-fixed, 10kΩ(B)
★★	HSH-128	S1 Switch (REC/PB)
★★	HSH-130	S2 Switch (PHONO/AUX)
★★	HSH-129	S3 Switch (BFC)
	HTX-139	OSC
	HTX-120	LPF1, LPF2 Filter

RESISTORS

Mark	Part No.	Symbol & Description
	RD1/6PS □□□J	R1, R2, R5–R48, R51–R54, R57–R70, R73, R75, R76, R79–R94, R97–R112, R115–R120, R123–R132, R139, R141–R144, R147–R150, R153, R154, R157–R168, R205–R207, R210–R212, R220–R225, R227, R229–R235, R237, R239, R245, R246, R280–R282, R284–R288, R290, R291
	RD1/4PM □□□J	R3, R4, R49, R50, R55, R56, R71, R72, R74, R77, R78, R95, R96, R113, R114, R121, R122, R133–R138, R140, R145, R146, R151, R152, R155, R156, R204, R208, R209, R213–R219, R226, R228, R236, R238, R240–R244, R247–R251, R283
	VACANT	R169–R203, R252–R279
	RS1P □□□K	R289
	HCN-104	R292 2.2Ω 1/4W

CAPACITORS

Mark	Part No.	Symbol & Description
	CSYAR15M25SAN	C1, C2, C158
	CKPYX103N25	C3, C4
	CEA010M50L	C5, C6, C25, C31–C34, C63, C64, C105, C106, C111, C112, C115, C117, C118, C148, C155
	CKDYB561K50	C7, C8
	CKDYB221K50	C9, C10, C27–C30, C107–C110, C141, C142, C183, C184
	CEA101M10L	C11, C12, C77, C89, C90, C91, C95, C96, C161, C186
	CQMA223J50	C13, C14, C71, C72, C185
	CEA100M16L	C15, C16, C43, C44, C51, C52, R69, C70, C73, C74, C79, C80, C85, C86, C153, C162
	CEAR22M50L	C17, C18, C57, C58, C61, C62, C140, C143, C145
	CEA221M16L	C19, C76, C83, C114, C144
	CEA470M10L	C20, C67, C68, C92
	CQMA822J50	C21, C22
	CQMA333K50	C23, C24
	CEA010M50L	C26, C116
	CSZAR33M35	C35, C36
	CQMA104J50	C37, C38
	CEA471M16L	C39–C42, C75, C113
	CQMA473K50	C45, C46
	CQMA273K50	C47, C48
	CQMA472J50	C49, C50, C139
	CQMA562J50	C53, C54
	CEAR47M50L	C55, C56, C119, C120
	CKDYB681K50	C59, C60
	CKPYB221K50	C65, C66, C146, C147, C149, C150
	CEA331M10L	C78
	CEA2R2M50L	C81, C82
	CEA101M16L	C84
	CKDYB471K50	C87, C88
	CQMA104K50	C93, C94, C101, C102
	CEA222M10L	C97, C98
	VACANT	C99, C100, C121–C138
	CQMA393J50	C103, C104
	CKPYB102K50	C151
	CKPYX222M50	C152
	CQMA332K50	C154
	CEA4R7M35L	C156, C157, C159, C160, C180
	CEA102M16L	C163
	HCH-119	C164 3300μF/25V
	VACANT	C165–C179
	HCH-121	C181, C182 3,9μF/63V

AF Control Unit (SK-700)

MISCELLANEOUS

Mark	Part No.	Symbol & Description	
★★	2SC2634 or 2SC732TM	Q5, Q6	
★★	2SC1815 or 2SC536NP or JC501 or 2SC828 or 2SC945	Q19–Q22	
★	DS442 or US1040	D5	
	HTH-105	L1, L2	Coil, 4.7mH
★	HCS-156	VR1	Volume, 20kΩ(A) (MIX MIC)
★	HCS-152	VR4, VR5	Volume, 50kΩ(A) (TREBLE BASS)
★	HCS-151	VR6	Volume, 50kΩ(W) (BALANCE)
★★	HSG-146	S5	Switch (METAL/CrO_2)
★★	HSG-145	S7	Switch (AUTO/MONO)
★★	HSD-124	S8	Switch (TIMER STAND BY)

RESISTORS

Mark	Part No.	Symbol & Description	
	RD1/4PM [illegible]J	R41–R46, R49, R169–R174, R176–R182, R185–R194, R196–R198, R200	
	RD1/4VM [illegible]J	R76, R195, R199, R201, R202	
	HCN-102	R203	47Ω 1/4W

CAPACITORS

Mark	Part No.	Symbol & Description
	CEA010M50L	C25, C26, C31, C32
	CKPYB221K50	C29, C30
	CEA221M16L	C75
	CQMA153J50	C121 C124
	CQMA123K50	C125, C126
	CQMA683K50	C127, C128
	CQMA184K50L	C129, C130
	CEAR47M50L	C131, C132
	CEA100M16L	C133
	CEA470M10L	C134
	CEA101M16L	C135
	CEA4R7M35L	C136
	CCDSL101J50	C137
	CEAR22M50L	C138
	CQMA472K50	C187, C188

AF Control Unit (SK-750)

MISCELLANEOUS

Mark	Part No.	Symbol & Description	
★★	2SC536NP or 2SC828 or 2SC945 or 2SC1815	Q19–Q22	
★	DS442 or US1040	D5	
	HTH-122	L1, L2	Coil, 3.9mH
★	HCS-156	VR1	Volume, 20kΩ(A) (MIX MIC)
★	HCS-150	VR2, VR3	Volume, 20kΩ(B) (REC)
★	HCS-152	VR4, VR5	Volume, 50kΩ(A) (TREBLE BASS)
★	HCS-151	VR6	Volume, 50kΩ(W) (BALANCE)
★★	HSG-146	S4, S5	Switch (ALC/MANUAL, METAL/CrO_2)
★★	HSG-145	S6, S7	Switch (DOLBY NR, AUTO/MONO)
★★	HSD-124	S8	Switch (TIMER STAND BY)

RESISTORS

Mark	Part No.	Symbol & Description	
	RD1/6PS □□□J	R169–R174, R177–R194, R196–R200, R202	
	RD1/4PM □□□J	R175, R176, R195, R201	
	HCN-102	R203	47Ω 1/4W

CAPACITORS

Mark	Part No.	Symbol & Description
	CQMA183J50	C121, C122
	CQMA223J50	C123, C124
	CQMA123K50	C125, C126
	CQMA683K50	C127, C128
	CQMA184K50L	C129, C130
	CEAR47M50L	C131, C132
	CEA100M16L	C133
	CEA470M10L	C134
	CEA101M16L	C135
	CEA4R7M35L	C136
	CCPSL101J50	C137
	CEAR22M50L	C138
	CQMA472K50	C187, C188

Indicator Unit

Mark	Part No.	Symbol & Description
★	SLP-251B	D20, D21, D22 (SK-750) LED(Green)

Power Switch Unit

Mark	Part No.	Symbol & Description	
★★	HSG-147	S9	Switch (POWER)

Volume Unit

Mark	Part No.	Symbol & Description	
★	HCW-101	VR1	Volume, 20kΩ(A) (VOLUME)

LED Meter Unit (SK-700)

Mark	Part No.	Symbol & Description	
★★	IR2E01	IC2, IC3	
★	SLP-146B	D23–D32	LED (Red)
	RD1/4PM □□□J	R157–R166	
	CEA101M16L	C114	
	CKPYX103N25	C115, C116	
	CEA100M16L	C117, C118	
	CEA010M50L	C119, C120	

Control Unit

MISCELLANEOUS

Mark	Part No.	Symbol & Description
★★	PD1004	IC1
★★	BA618	IC2
★★	LB1276	IC3
★★	2SC828 or 2SC536NP or 2SC945 or 2SC1815	Q1–Q3
★★	2SB562-C or 2SA683 or 2SB698	Q4–Q10
★	US1040 or DS442	D1–D5, D6 (SK-750), D10–D14
★	DS135E	D15–D20
	VACANT	D6 (SK-700), D7–D9

RESISTORS

Mark	Part No.	Symbol & Description
	RD1/4PM □□□J	R1, R2 (SK-750), R3 (SK-750), R4–R13, R14(SK-750), R15(SK-750), R16–R58, R60–R62
	HCN-104	R59 2.2Ω 1/4W
	VACANT	R2(SK-700), R3(SK-700), R14(SK-700), R15(SK-700)

CAPACITORS

Mark	Part No.	Symbol & Description
	CXPYX103N25	C1, C10
	CEA3R3M50L	C2
	CEA2R2M50L	C3–C6
	CEA4R7M35L	C7, C12
	CEA470M10L	C8
	CEA010M50L	C9
	CEA220M16L	C11 (SK-750)
	VACANT	C11 (SK-700)
	CEA221M16L	C13

Key Board Unit

Mark	Part No.	Symbol & Description
★★	HSG-149	S1–S10(SK-750) Switch S1, S2, S5–S10(SK-700) Switch
★	GL5NG6	D21, D22, D25(SK-750), D26(SK-750) LED (Green)
★	GL5PR6	D23, D24 LED (Red)

Power Supply Unit

Mark	Part No.	Symbol & Description
⚠ ★	GP15B	D16–D19
	RD1/2PS □□□J	R256(SK-700), R252(SK-750)
⚠	CKDYF103Z50	C189–C191
⚠ ★★	HEK-117	FU1 Fuse, 4A 125V

Switch Unit (A)

Mark	Part No.	Symbol & Description
★★	CSN-070	S1, S3 Switch (REC INH, CrO_2)
★★	HSG-150	S2 Switch (EJECT)

Switch Unit (B)

Mark	Part No.	Symbol & Description
★★	HSN-132	S1 Switch (REC PAUSE Lever, STOP Lever)
★★	HSG-142	S2 Switch (Slider)

CR Unit

Mark	Part No.	Symbol & Description
	HCN-111	R1 56Ω 1W
	HCN-106	R2 33Ω 1/4W
	CEA102M16L	C1
	CEA222M16L	C2

Miscellaneous Parts List

Mark	Part No.	Symbol & Description
	HWX-386	LED Meter Unit (SK-750)
	HTH-121	L1(SK-750), L2(SK-750) Inductor
	CEA220M16L	C1–C3 (SK-750)
⚠ ★	HTT-168	T Power Transformer
★	HPM-119	ECM1, ECM2 Microphone Unit
★★	HPW-108	SP1, SP2 Speaker (Woofer)
★★	HPT-109	SP3, SP4 Speaker (Tweeter)
★★	HXM-152	M Motor
★★	HPB-116	HD1 Head (REC/PB)
★	HPB-351	HD2 Head (ERASE)
	HXP-104	SO Solenoid
★★	HSN-131	S1 Switch (FAS)

14. CABINET EXPLODED VIEW

- **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
	1.	HNS-586	Cover (SK-700)
		HNS-587	Cover (SK-750)
	2.	HNS-588	Panel (SK-700)
		HNS-589	Panel (SK-750)
	3.	ONC30P120FBK	Screw
★	4.	HAC-259	Button (EJECT)
	5.	HNB-201	Net (SK-700)
		HNB-202	Net (SK-750)
	6.	HBH-345	Spring
★	7.	HAC-247	Button (POWER)
★	8.	HAC-248	Button (MIC REC)
★	9.	HAC-249	Button (PHONO/AUX)
★	10.	HAC-250	Button (PLAY)
★	11.	HAC-251	Button (FM)
★	12.	HAC-252	Button (AM)
★★	13.	HXA-829	Cassette Door Assy (SK-700)
★★		HXA-830	Cassette Door Assy (SK-750)
	14.	BAZ30P100FMC	Screw
	15.	HNR-156	Panel
★	16.	HXA-828	Knob Unit
	17.	HNV-537	Bush
	18.	BNC30P120FMC	Screw
	19.	HDE-274	Connector
	20.	BLZ30P080FMC	Screw
★★	21.	HPT-109	Speaker (Tweeter)
★★	22.	HPW-108	Speaker (Woofer)
	23.		Clamper
	24.	HNV-476	Spacer
★	25.	HAA-193	Knob (TUNING)
★	26.	HXA-864	Front Case Assy (SK-700/KU)
★		HXA-867	Front Case Assy (SK-700/KC)
★		HXA-891	Front Case Assy (SK-750/KU)
★		HXA-892	Front Case Assy (SK-750/KC)
	27.	PNC40P160FNi	Screw
★	28.	HAA-194	Knob
	29.	HBA-130	Screw
★	30.	HNS-525	Door (SK-700)
★		HNS-557	Door (SK-750)
★★	31.	HNS-518	Cover
	32.	HNM-317	Cushion
	33.		Cushion
	34.		Spacer
	35.		Spring
	36.		Spring
	37.	HNV-496	Bush

- **SK-700**

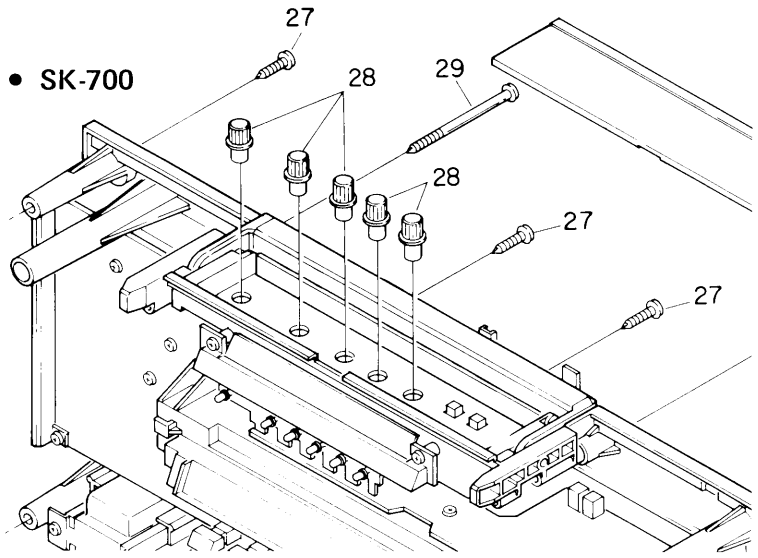
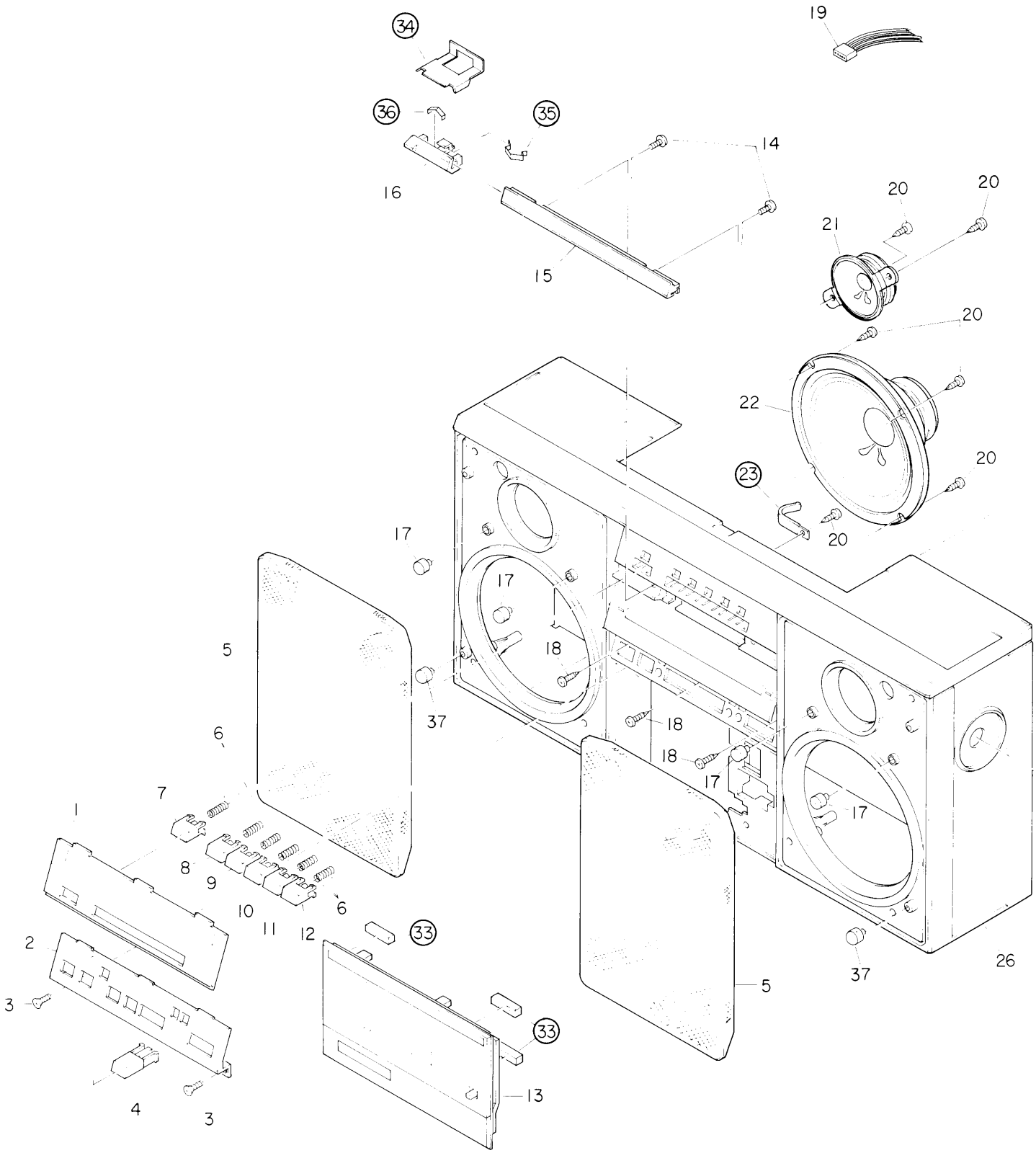
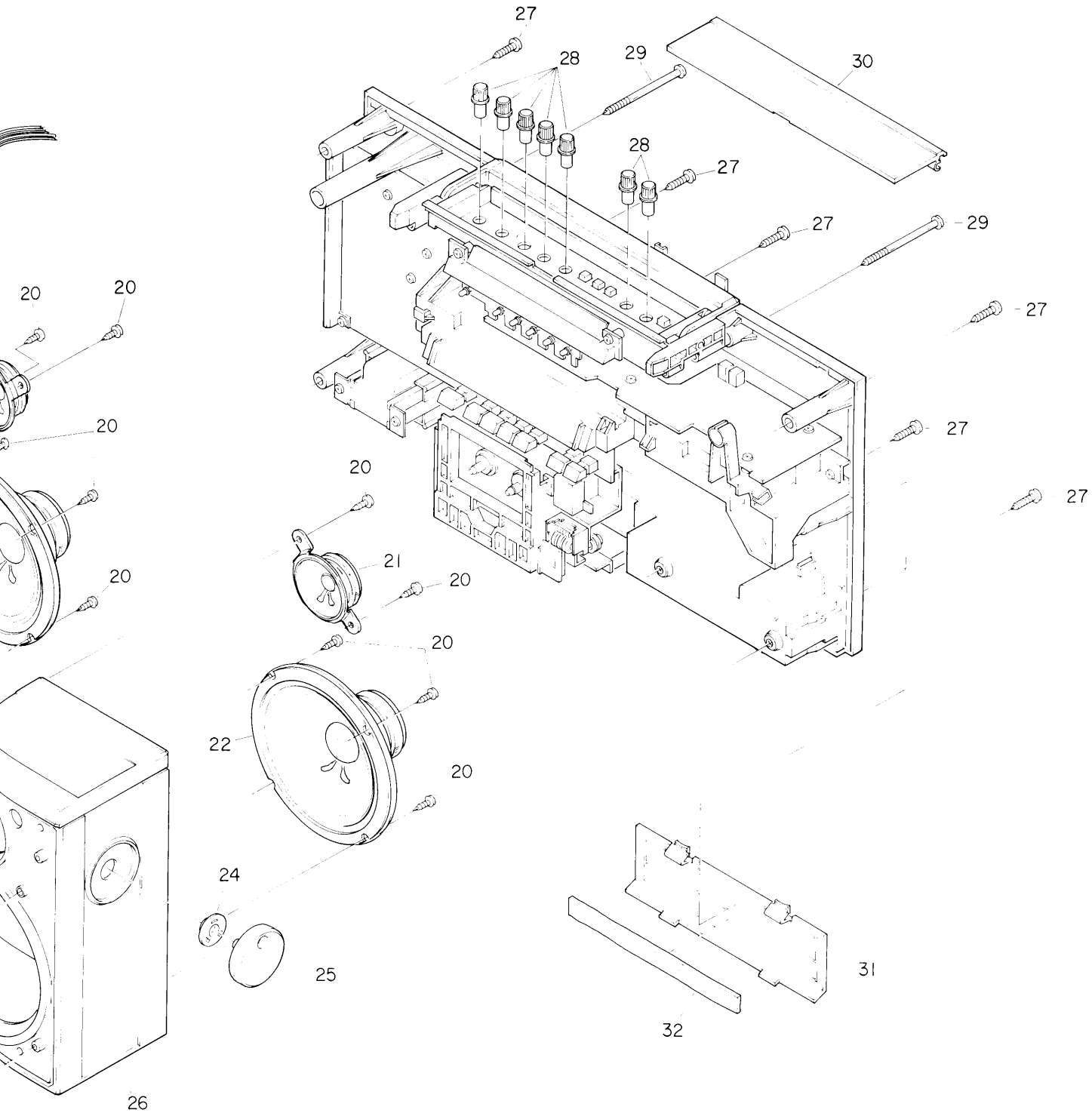


Fig. 53

- **Cabinet**

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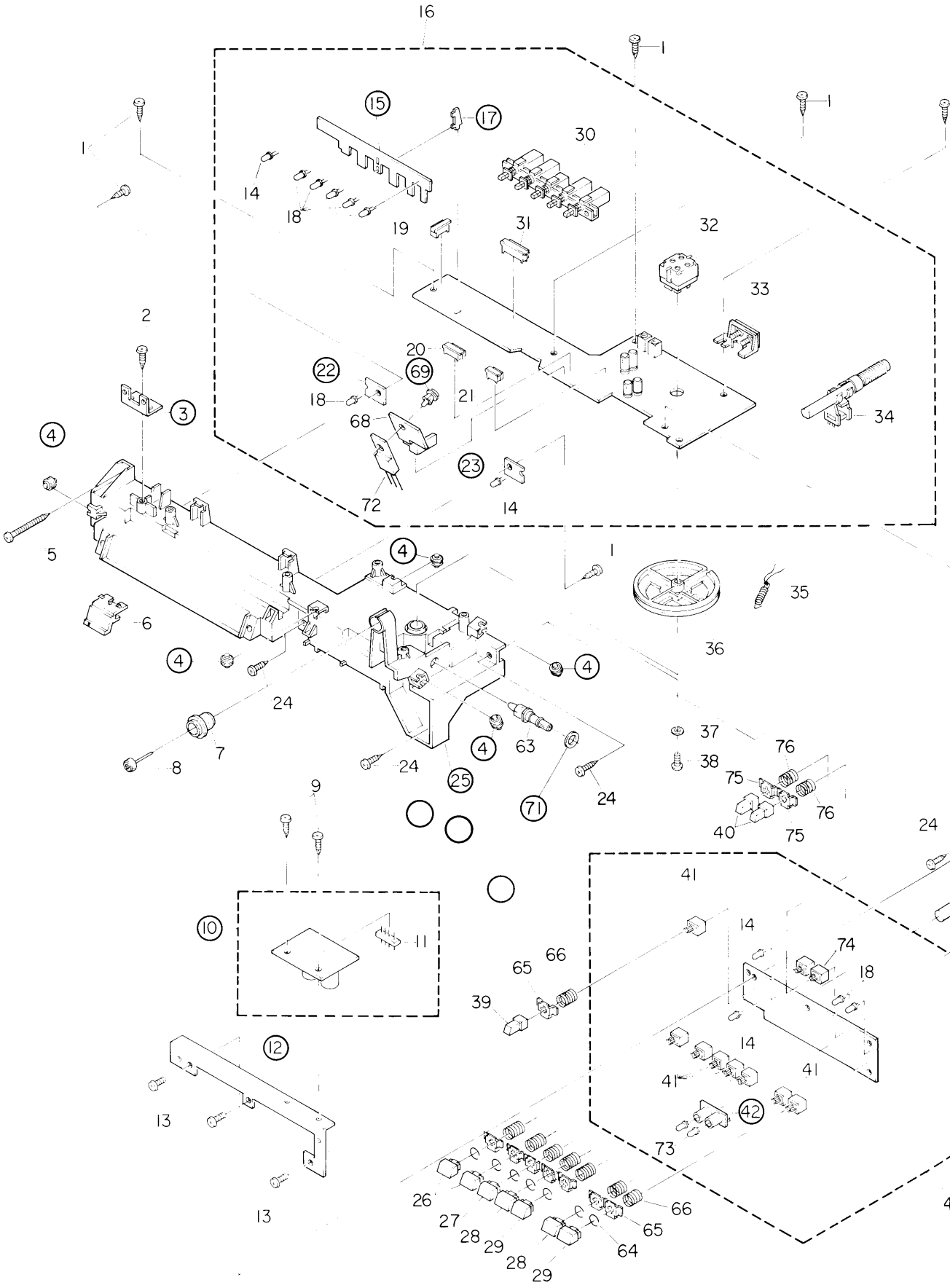
A B C D

Fig. 54

15. CHASSIS (1) EXPLODED VIEW



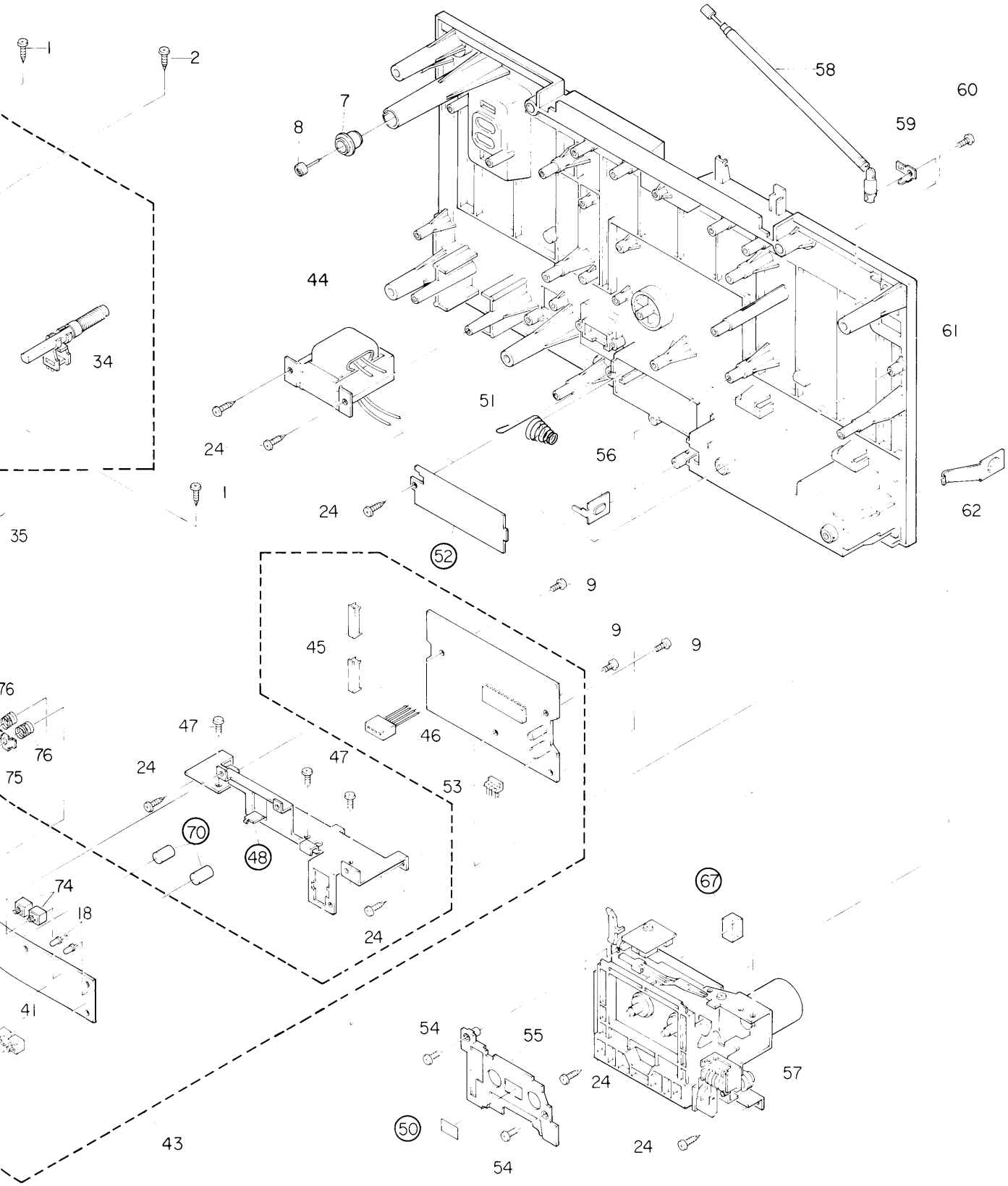

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Fig. 55

• Parts List

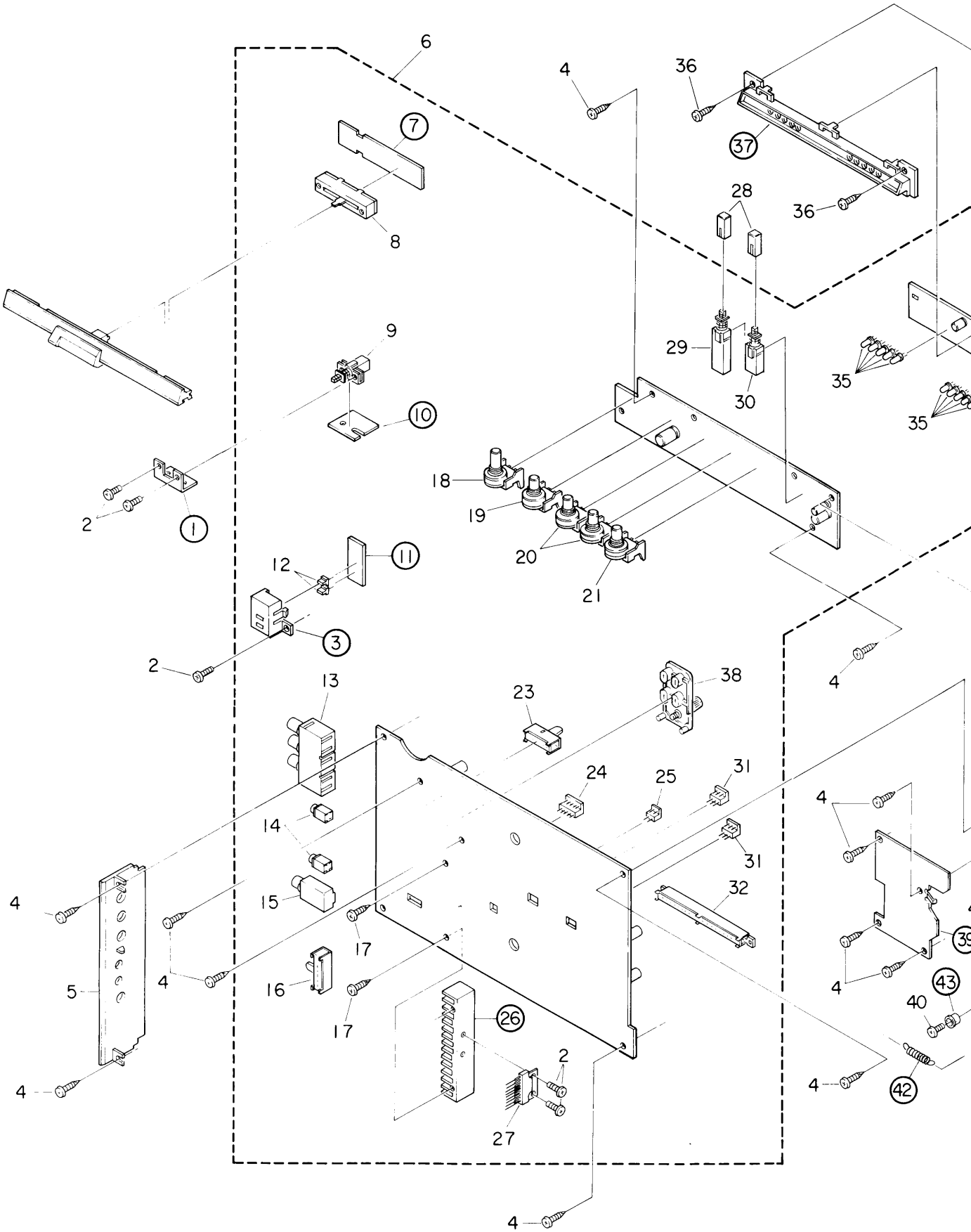
Mark	No.	Part No.	Description
	1.	BLZ30P080FMC	Screw
	2.	BLZ30P100FMC	Screw
	3.		Bracket
	4.		Pulley
	5.	HBA-132	Screw
	6.	HAF-118	Pointer
	7.	HNV-474	Holder
★	8.	HPM-119	Microphone Unit
	9.	BMZ30P080FMC	Screw
	10.		CR Unit
	11.	CKS-032	Plug
	12.		Bracket
	13.	BNZ30P080FMC	Screw
★	14.	GL5PR6	LED (Red)
	15.		P.C. Board
	16.	HWE-167	Tuner Unit
	17.		Bracket
★	18.	GL5NG6	LED (Green)
	19.	HKS-139	Connector (4P)
	20.	HKS-140	Connector (5P)
	21.	HKS-138	Connector (3P)
	22.		P.C. Board
	23.		P.C. Board
	24.	BLZ30P120FMC	Screw
	25.		Chassis
★	26.	HAC-254	Button (REC MUTE, PAUSE)
★	27.	HAC-262	Button (STOP)
★	28.	HAC-257	Button (REW, MS)
★	29.	HAC-256	Button (FF, MS)
★★	30.	HSG-148	Switch (FUNCTION)
	31.	HKS-114	Connector (11P)
	32.	HCL-110	Variable Capacitor
	33.	HKA-112	Terminal
	34.	HTX-138	Antenna Unit
	35.	HBH-368	Spring
	36.	HNV-473	Pulley
	37.	WB26FMC	Washer
	38.	BMZ26P060FMC	Screw
★	39.	HAC-255	Button (REC)
★	40.	HAC-258	Button (OR, MR) (SK-750)
★★	41.	HSG-149	Switch
	42.		Escutcheon
	43.	HWM-127	Mechanism Control Assy (SK-700)
		HWM-128	Mechanism Control Assy (SK-750)
★	44.	HTT-168	Power Transformer
	45.	HKS-144	Connector (9P)
	46.	HDE-269	Connector (4P)
	47.	BSZ26P060FMC	Screw
	48.		Bracket
	49.	VACANT	
	50.		Seal
	51.	HBH-344	Spring
	52.		Cover
	53.	HKS-136	Plug
	54.	BNZ26P120FBK	Screw
	55.	HNS-530	Plate
	56.	HBL-152	Terminal
	57.	HXA-810	Cassette Mechanism Assy
★★	58.	HDX-109	Antenna
	59.	HNC-574	Terminal
	60.	BMZ30P100FBK	Screw
★	61.	HNS-555	Case (SK-700/KU, SK-750/KU)
★		HNS-508	Case (SK-700/KC, SK-750/KC)
	62.	CBL-161	Terminal
	63.	HNV-475	Shaft
	64.	HBH-376	Spring
	65.	HNC-639	Holder
	66.	HBH-377	Spring
	67.		Cushion
	68.	HNC-640	Bracket
	69.		Rivet
	70.		Boss
	71.		Spacer
★★	72.	2SD880-Y or 2SD1061-R	Transistor
★	73.	GL5NG6	LED (Green) (SK-750)
★★	74.	HSG-149	Switch (SK-750)
	75.	HNC-639	Holder (SK-750)
	76.	HBH-377	Spring (SK-750)

16. CHASSIS (2) EXPLODED VIEW (SK-700)

- Parts List

Mark	No.	Part No.	Description
	1.		Bracket
	2.	BMZ30P060FMC	Screw
	3.		Escutcheon
	4.	BLZ30P120FMC	Screw
	5.	HNS-527	Jack Plate
	6.	HWK-215	AF Amp Assy
	7.		P.C. Board
★	8.	HCW-101	Volume, 20kΩ(A) (VOLUME)
★★	9.	HSG-147	Switch (POWER)
	10.		P.C. Board
	11.		P.C. Board
★	12.	SLP-251B	LED (Green)
	13.	HKN-138	Jack (MIC)
	14.	HKN-125	Jack (SP)
	15.	HKN-131	Jack (PHONES)
★★	16.	HSH-129	Switch (BFC)
	17.	BAZ30P080FMC	Screw
★★	18.	HSD-124	Switch (TIMER STAND BY)
★	19.	HCS-156	Volume, 20kΩ(A) (MIX MIC)
★	20.	HCS-152	Volume, 50kΩ(A) (TREBLE, BASS)
★	21.	HCS-151	Volume, 50kΩ(W) (BALANCE)
	22.	VACANT	
★★	23.	HSH-130	Switch (PHONO/AUX)
	24.	CKS-090	Plug (8P)
	25.	CKS-114	Plug (4P)
	26.		Heat Sink
★★	27.	HA1392	IC
★	28.	HAC-253	Button
★★	29.	HSG-146	Switch (METAL/CrO_2)
★★	30.	HSG-145	Switch (AUTO/MONO)
	31.	CKS-115	Plug (3P)
★★	32.	HSH-128	Switch (REC/PB)
	33.	VACANT	
	34.	VACANT	
★	35.	SLP-146B	LED (Red)
	36.	BLZ30P080FMC	Screw
	37.		Escutcheon
	38.	HKN-136	Jack
	39.		Shield
	40.	BMZ30P080FMC	Screw
	41.	HNC-636	Washer
	42.		Spring
	43.		Collar
	44.		Sub Lever
	45.		Lever
	46.	CKP-020	AC/DC Socket
	47.	HNS-521	Handle (R)
	48.		Holder
	49.	ONC30P100FNi	Screw
	50.	HNS-519	Cover
	51.	HNS-522	Grip
	52.		Holder
★	53.	HNS-555	Case (SK-700/KU)
★		HNS-508	Case (SK-700/KC)
	54.	HNS-585	Handle (L)
	55.		Power Supply Unit
	56.	CNV-863	AC Cap
★★	57.	HEK-117	Fuse, 4A 125V

- **Chassis (2) (SK-700)**



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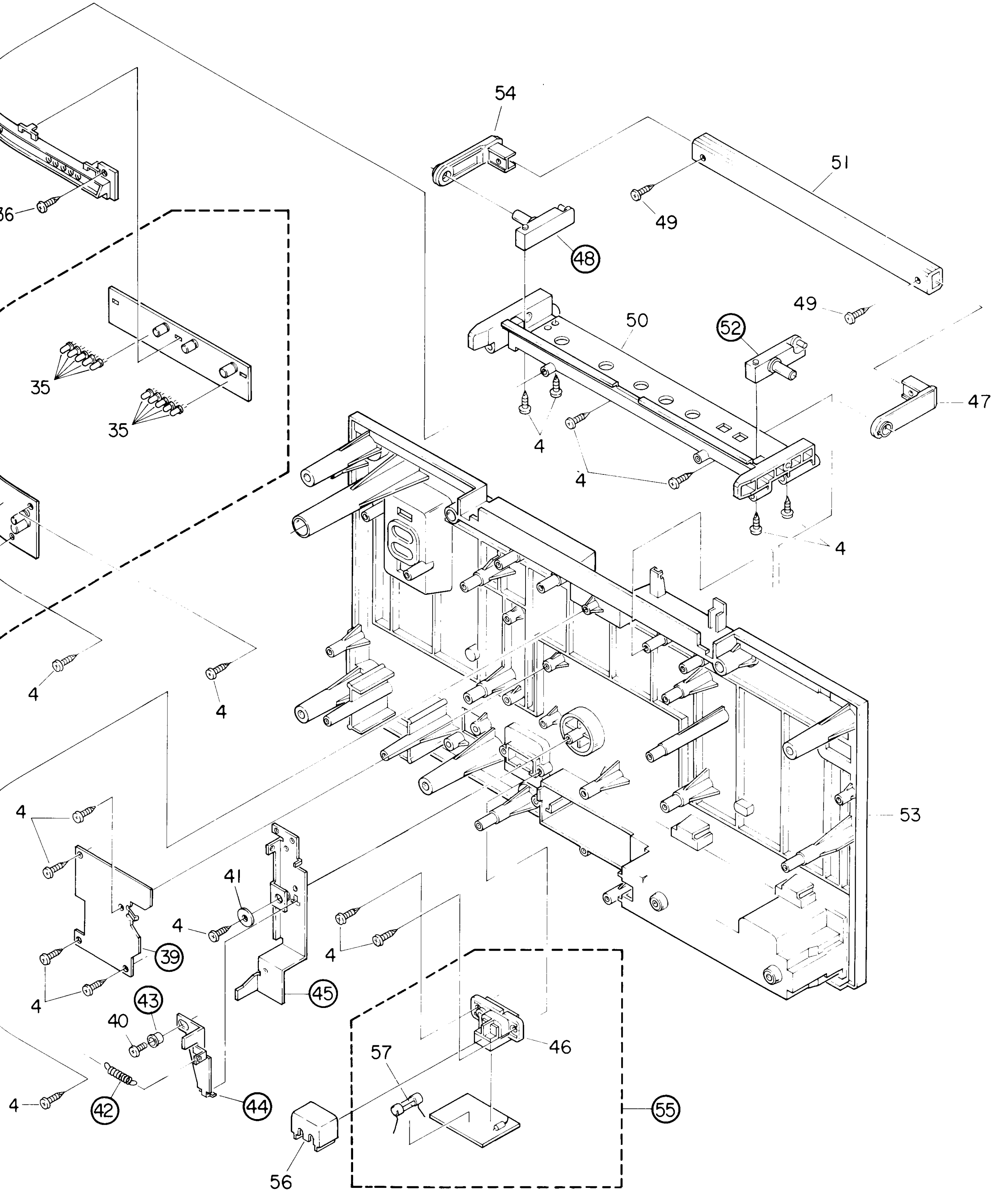
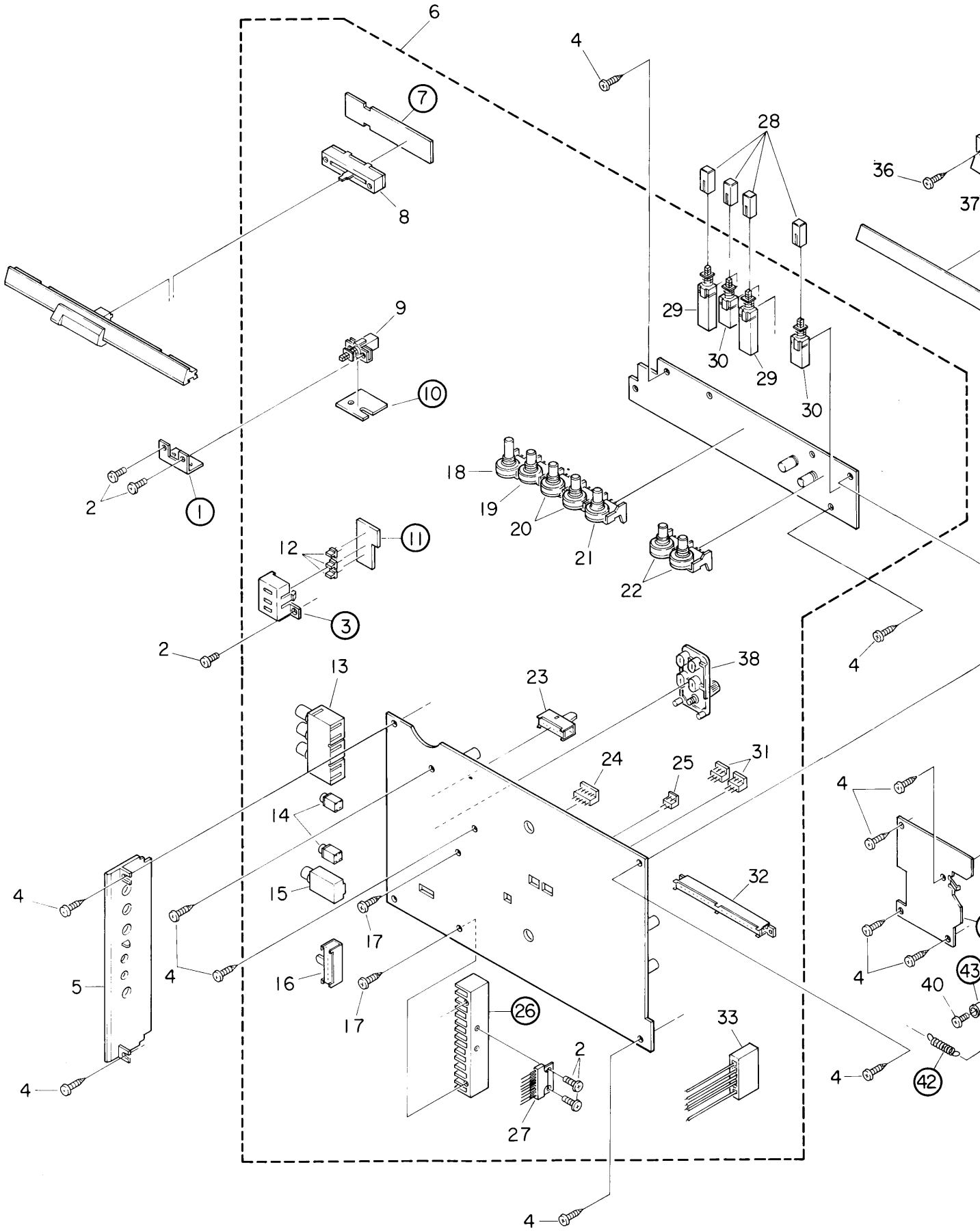


Fig. 56

17. CHASSIS (2) EXPLODED VIEW (SK-750)



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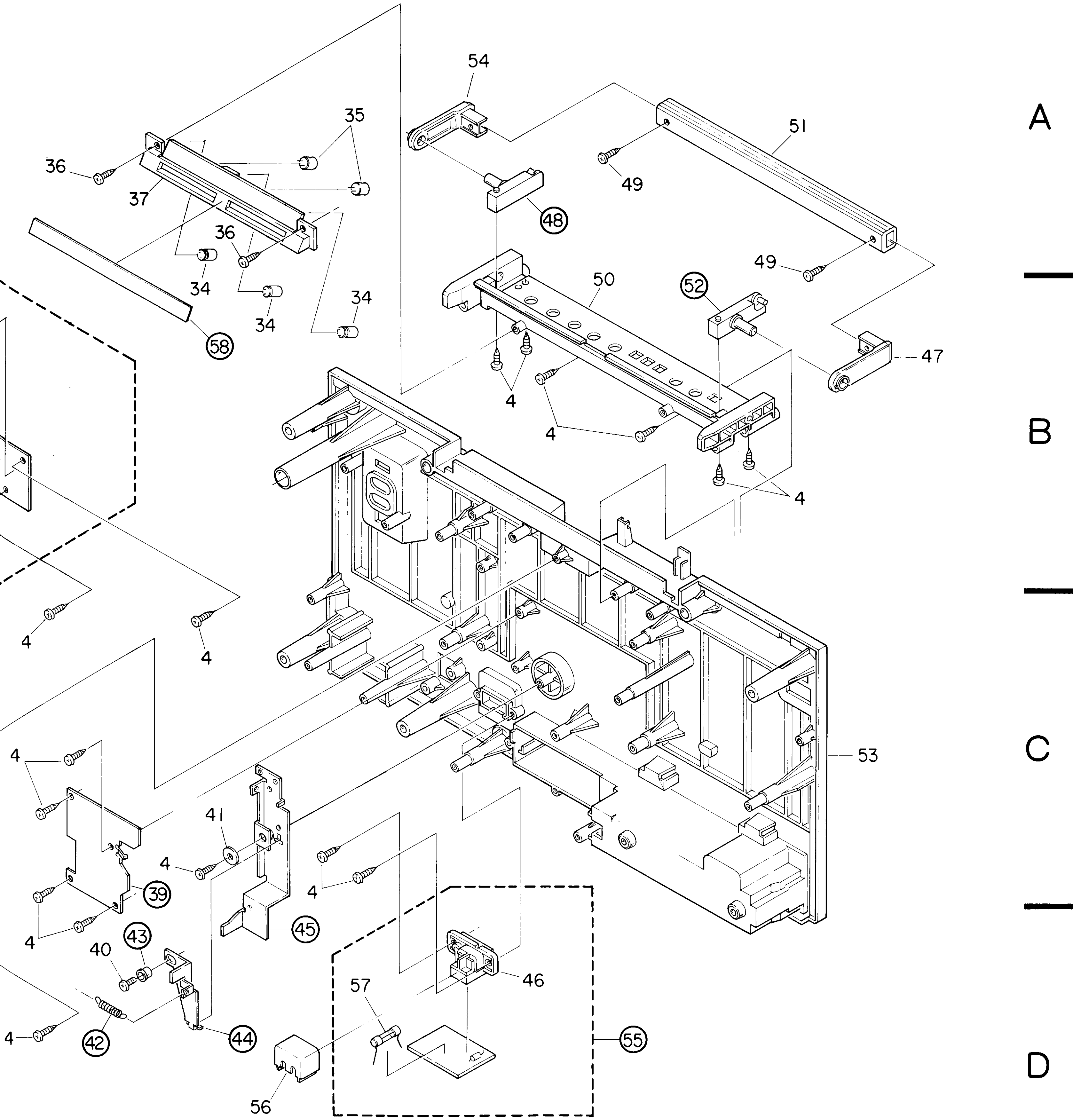

Fig. 57

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• Parts List

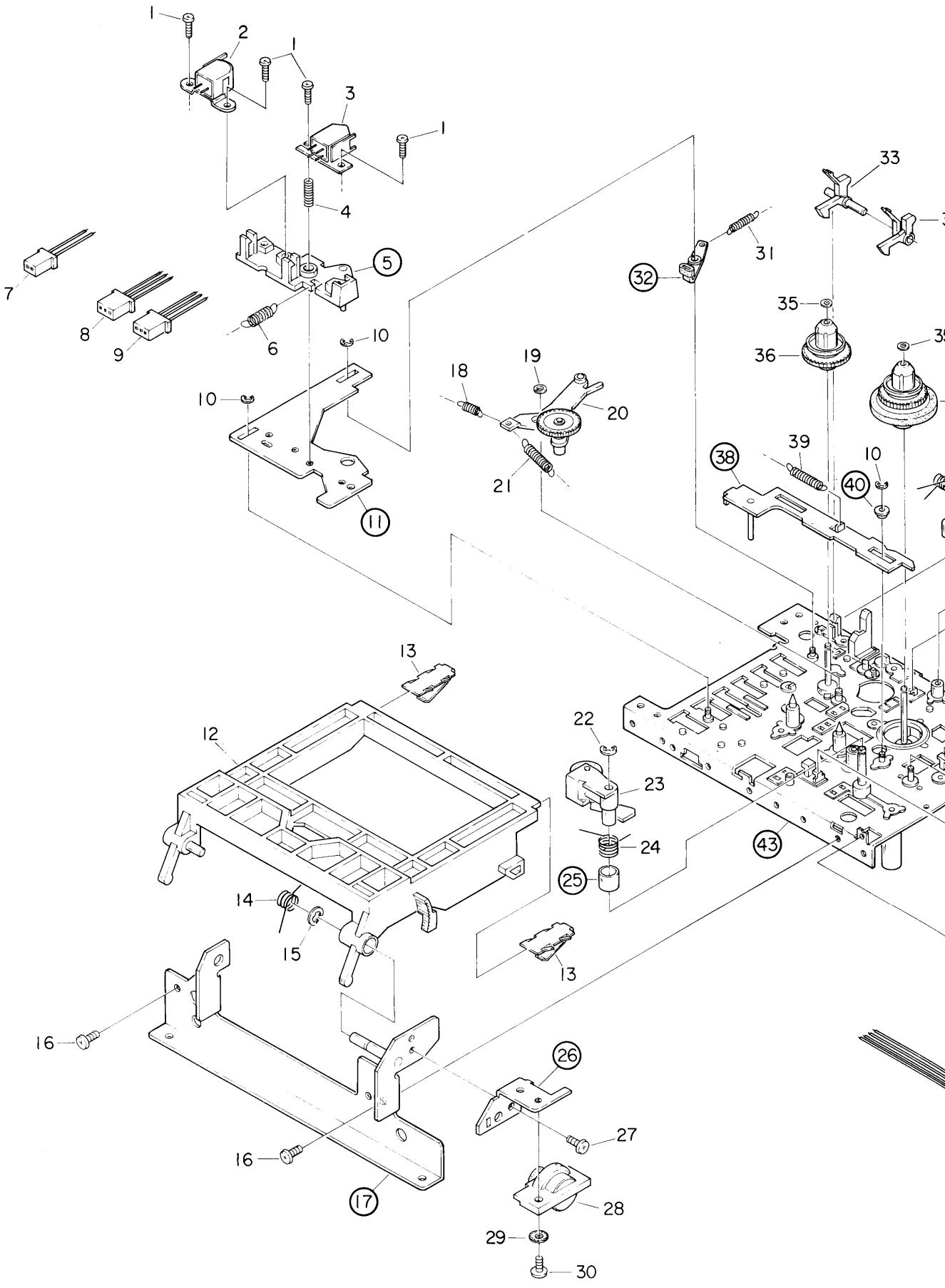
Mark	No.	Part No.	Description
	1.		Bracket
	2.	BMZ30P060FMC	Screw
	3.		Escutcheon
	4.	BLZ30P120FMC	Screw
	5.	HNS-527	Jack Plate
	6.	HWK-217	AF Amp Assy
	7.		P.C. Board
★	8.	HCW-101	Volume, 20kΩ(A) (VOLUME)
★★	9.	HSG-147	Switch (POWER)
	10.		P.C. Board
	11.		P.C. Board
★	12.	SLP-251B	LED (Green)
	13.	HKN-138	Jack (MIC)
	14.	HKN-125	Jack (SP)
	15.	HKN-131	Jack (PHONES)
★★	16.	HSH-129	Switch (BFC)
	17.	BAZ30P080FMC	Screw
★★	18.	HSD-124	Switch (TIMER STAND BY)
★	19.	HCS-156	Volume, 20kΩ(A) (MIX MIC)
★	20.	HCS-152	Volume, 50kΩ(A) (TREBLE, BASS)
★	21.	HCS-151	Volume, 50kΩ(B) (BALANCE)
★	22.	HCS-150	Volume, 20kΩ(B) (REC)
★★	23.	HSH-130	Switch (PHONO/AUX)
	24.	CKS-090	Plug (8P)
	25.	CKS-114	Plug (2P)
	26.		Heat Sink
★★	27.	HA1392	IC
★	28.	HAC-253	Button
★★	29.	HSG-146	Switch (ALC/MANUAL, METAL/CrO_2)
★★	30.	HSG-145	Switch (AUTO/MONO, DOLBY NR)
	31.	CKS-115	Plug (3P)
★★	32.	HSH-128	Switch (REC/PB)
	33.	HDE-268	Connector (5P)
	34.	CEA220M16L	Capacitor
	35.	HTH-121	Inductor
	36.	BLZ30P080FMC	Screw
	37.	HWX-386	LED Meter Unit
	38.	HKN-136	Jack
	39.		Shield
	40.	BMZ30P080FMC	Screw
	41.	HNC-636	Washer
	42.		Spring
	43.		Collar
	44.		Sub Lever
	45.		Lever
	46.	CKP-020	AC/DC Socket
	47.	HNS-521	Handle (R)
	48.		Holder
	49.	ONC30P100FNi	Screw
	50.	HNS-520	Cover
	51.	HNS-556	Grip
	52.		Holder
★	53.	HNS-555	Case (SK-750/KU)
★		HNS-508	Case (SK-750/KC)
	54.	HNS-585	Handle (L)
	55.		Power Supply Unit
	56.	CNV-863	AC Cap
★★	57.	HEK-117	Fuse, 4A 125V
	58.		Film

18. CASSETTE MECHANISM EXPLODED VIEW (TOP)

- Parts List

Mark	No.	Part No.	Description
	1.	BMZ20P100FMC	Screw
★	2.	HPB-351	Head (ERASE)
★★	3.	HPB-116	Head (REC/PB)
	4.	CBH-475	Spring
	5.		Base
	6.	HBH-320	Spring
	7.	HDE-260	Connector (White)
	8.	HDE-261	Connector (Brown)
	9.	HDE-262	Connector (Gray)
	10.	YE15FUC	Washer
	11.		Head Plate
	12.	HNV-465	Door
	13.	HBL-151	Spring
	14.	HBH-341	Spring
	15.	YE30FUC	Washer
	16.	BSZ26P060FMC	Screw
	17.		Bracket Unit
	18.	HBH-330	Spring
	19.	HBF-162	Washer
	20.	HXA-808	FF Unit
	21.	HBH-332	Spring
	22.	YE25FUC	Washer
★★	23.	HXA-809	Roller Unit
	24.	HBH-337	Spring
	25.		Roller
	26.		Bracket
	27.	BMZ26P040FMC	Screw
	28.	HXA-866	Damper Assy
	29.	WH30FUC	Washer
	30.	BMZ30P060FMC	Screw
	31.	HBH-334	Spring
	32.		Arm Unit
	33.	HNV-531	Arm
	34.	HNV-532	Arm
	35.	HBF-145	Washer
★★	36.	HXA-805	Reel Unit
★★	37.	HXA-804	Reel Unit
	38.		Lever Unit
	39.	HBH-327	Spring
	40.		Roller
	41.	HBH-339	Spring
	42.	HNV-458	Arm
	43.		Chassis Unit
	44.	YE30FUC	Washer
	45.	HNV-461	Arm
	46.	HBH-342	Spring
	47.		Bracket Unit
	48.	HNV-463	Arm
	49.	HBH-333	Spring
	50.	HNV-466	Lever
	51.	HBH-374	Spring
	52.	HBH-323	Spring
	53.	HDE-263	Connector
	54.	HSG-150	Switch (EJECT)
	55.		P.C. Board
	56.	BMZ26P060FMC	Screw
	57.		Switch Unit (A)
	58.	HAW-135	Counter
★★	59.	HNT-136	Belt (Counter)
	60.	HBH-340	Spring
★★	61.	HSN-131	Switch (FAS)
	62.		Bracket
	63.	BRZ26P080FMC	Screw
	64.	HBA-126	Screw
	65.	CNV-840	Cushion
★★	66.	HXM-152	Motor
	67.		Arm Unit
	68.		Arm
★★	69.	CSN-070	Switch (REC INH, CrO_2)
	70.		Holder
	71.	BMZ20P080FMC	Screw

- **Cassette Mechanism (TOP)**



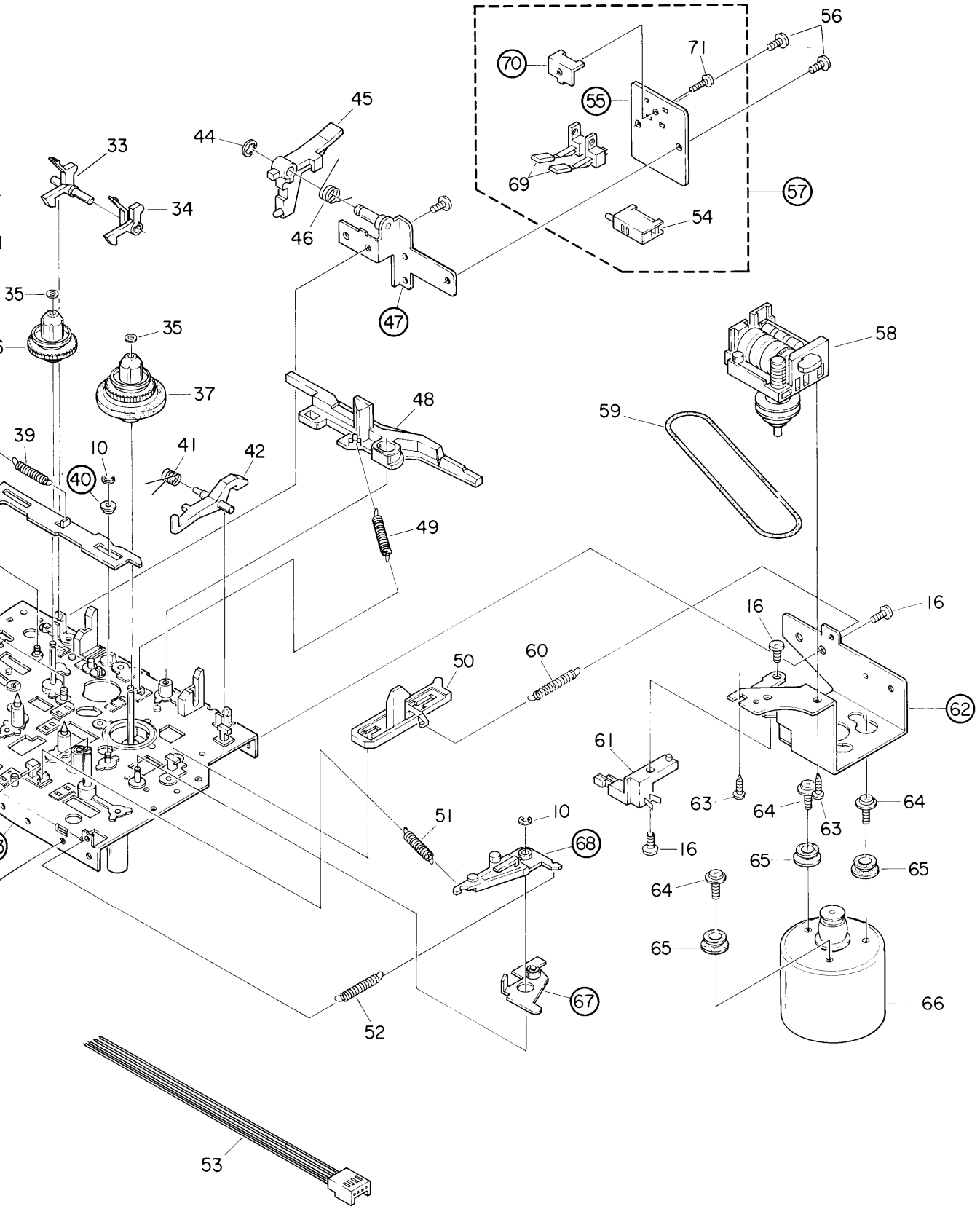

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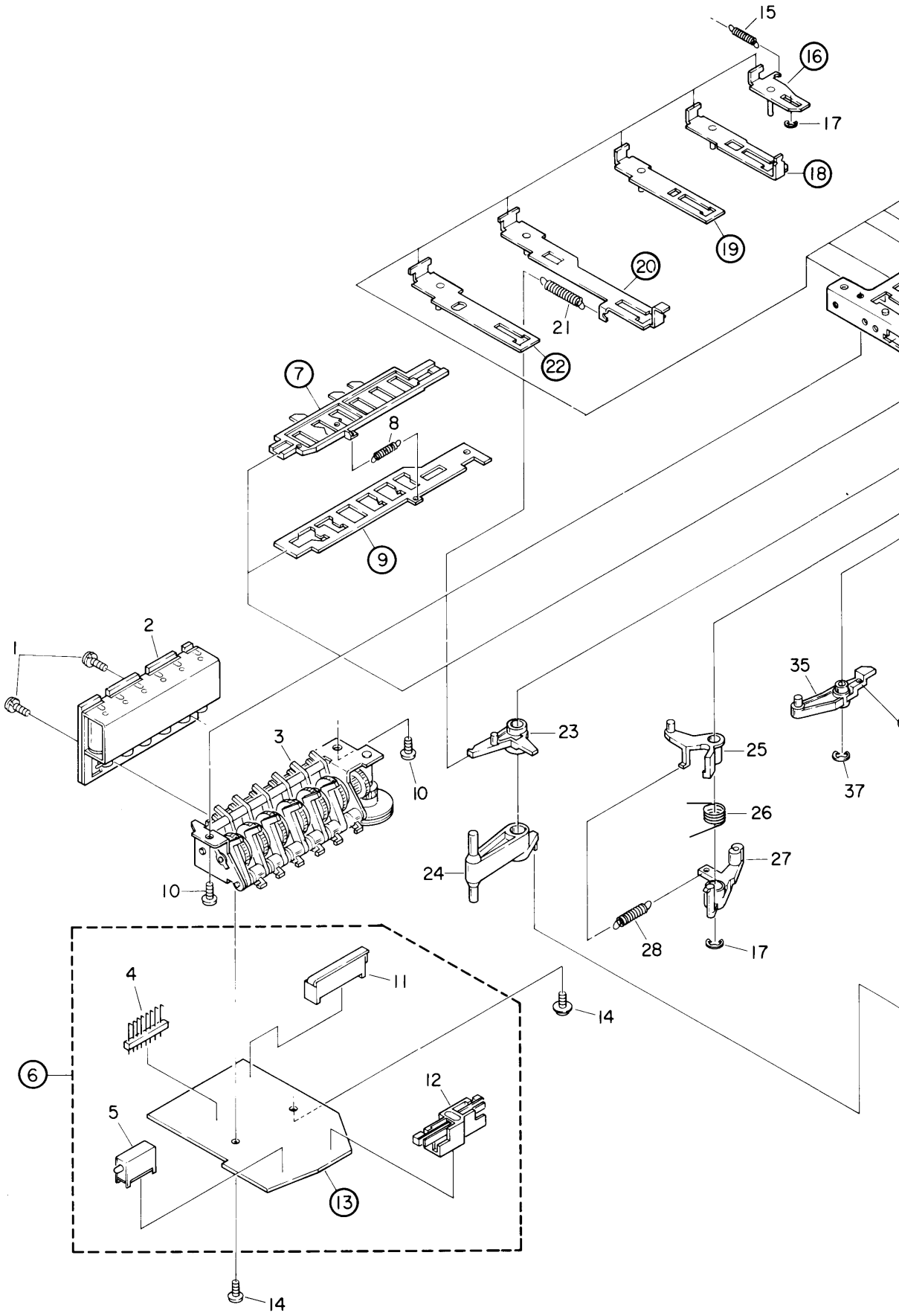
Fig. 58

19. CASSETTE MECHANISM EXPLODED VIEW (BOTTOM)



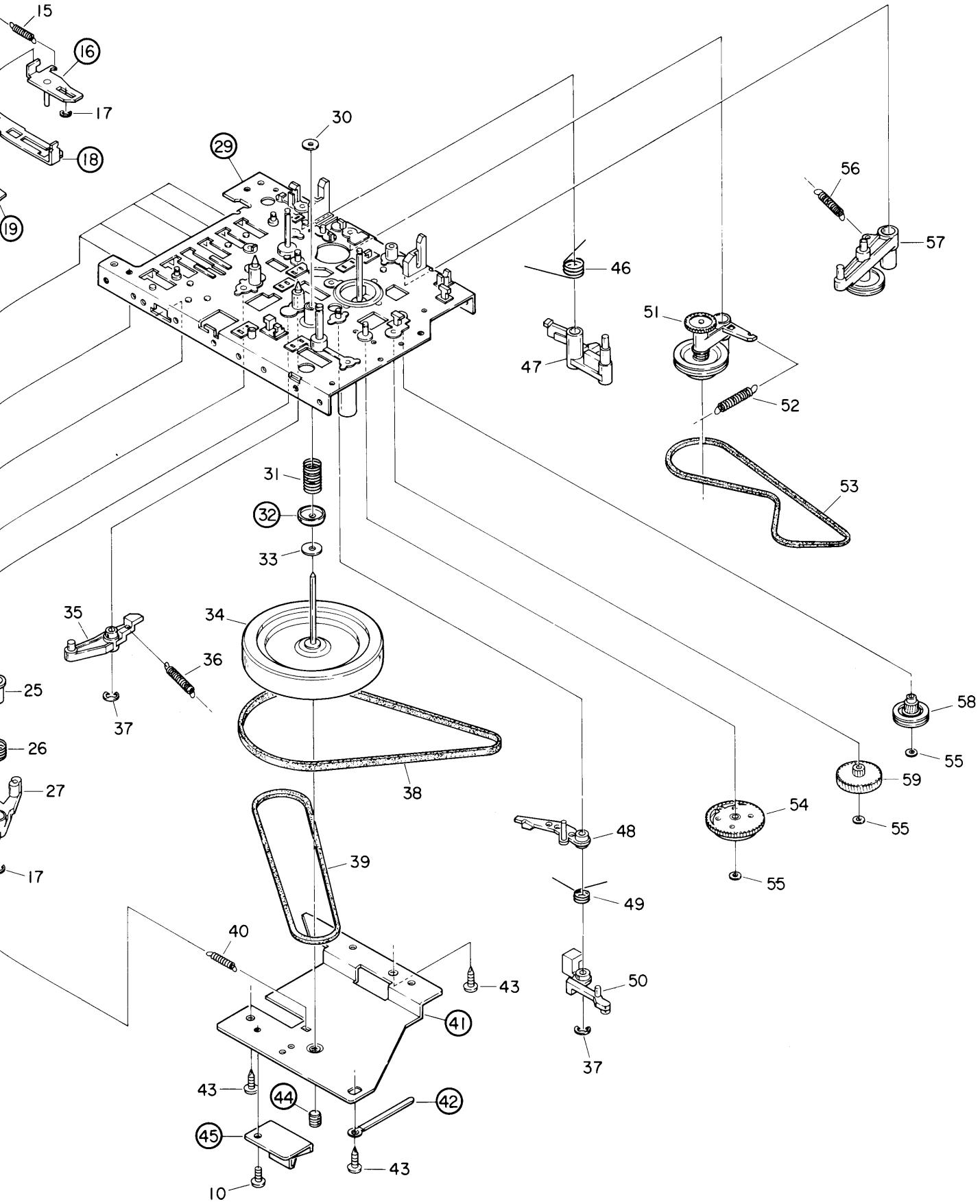

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Fig. 59

• Parts List

Mark	No.	Part No.	Description
	1.	PMB26P050FMC	Screw
	2.	HXP-104	Solenoid
	3.	HXA-820	Gear Assy
	4.	HKS-132	Plug
★★	5.	HSG-142	Switch (Slider)
	6.		Switch Unit (B)
	7.		Slider
	8.	HBH-325	Spring
	9.		Plate
	10.	BSZ26P060FMC	Screw
	11.	HKS-145	Connector
★★	12.	HSN-132	Switch (REC PAUSE Lever, STOP Lever)
	13.		P.C. Board
	14.	BMZ26P060FMC	Screw
	15.	HBH-326	Spring
	16.		Lever Unit
	17.	YE15FUC	Washer
	18.		Lever Unit
	19.		Lever Unit
	20.		Lever Unit
	21.	HBH-321	Spring
	22.		Lever Unit
	23.	HNV-451	Arm
	24.	HNV-452	Arm
	25.	HNV-450	Arm
	26.	HBH-336	Spring
	27.	HNV-449	Arm
	28.	HBH-322	Spring
	29.		Chassis Unit
	30.	HBF-147	Washer
	31.	HBH-335	Spring
	32.		Spacer
	33.	HBF-159	Washer
	34.	HNR-153	Flywheel
	35.	HNV-453	Arm
	36.	HBH-331	Spring
	37.	YE25FUC	Washer
★★	38.	HNT-133	Belt (Main)
★★	39.	HNT-135	Belt (Sub)
	40.	HBH-328	Spring
	41.		Plate
	42.		Clamper
	43.	BRZ26P060FMC	Screw
	44.		Screw
	45.		Bracket
	46.	HBH-343	Spring
	47.	HNV-462	Arm
	48.	HNV-454	Arm
	49.	HBH-338	Spring
	50.	HNV-455	Arm
	51.	HXA-807	FR Unit
	52.	HBH-329	Spring
★★	53.	HNT-134	Belt (FF, REW)
	54.	HNV-447	Gear
	55.	HBF-145	Washer
	56.	HBH-319	Spring
	57.	HXA-806	TP Unit
	58.	HNV-445	Pulley
	59.	HNV-446	Gear

20. PACKING METHOD

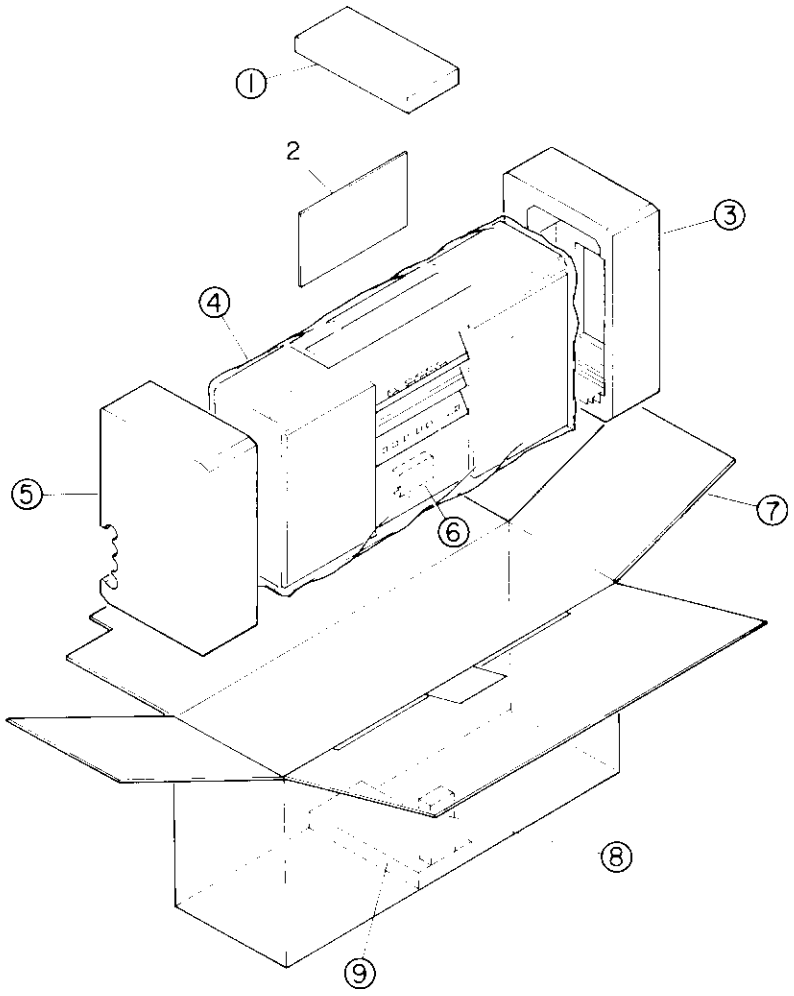

Fig. 60

- **Parts List**

Mark	No.	Part No.	Description
	1.		Styrofoam
	2-1.	HRB-180	Owner's Manual (English) (SK-700/KU, KC)
	2-2.	HRB-182	Owner's Manual (French) (SK-700/KC)
	2-3.	HRB-181	Owner's Manual (English) (SK-750/KU, KC)
	2-4.	HRB-183	Owner's Manual (French) (SK-750/KC)
⚠	2-5.	CDG-029	AC Cord
	2-6.		Card (SK-700/KU, SK-750/KU)
	2-7.		Card (SK-700/KU, SK-750/KU)
	2-8.		Card (SK-700/KU, SK-750/KU)
	2-9.		Card (SK-700/KC, SK-750/KC)
	2-10.		Card (SK-700/KC, SK-750/KC)
	3.		Styrofoam
	4-1.		Cover
	4-2.		Cover
	5.		Styrofoam
	6.		Tag
	7.		Carton (SK-700/KU) Carton (SK-700/KC) Carton (SK-750/KU) Carton (SK-750/KC)
	8.		Styrofoam
	9.		Styrofoam