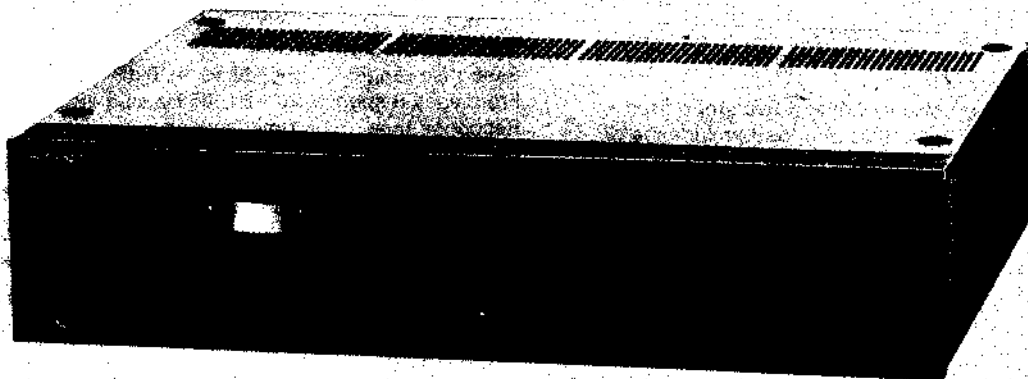


TC-K777ES

AEP Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

STEREO CASSETTE DECK

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast-forward and rewind time
Approx. 65 sec. (with C-60 cassette)
Bias frequency 105 kHz
Signal-to-noise ratio (NAB, at peak level)

Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)		61 dB	68 dB	74 dB
TYPE III (Sony FeCr)		62 dB	69 dB	75 dB
TYPE II (Sony UCX)		59 dB	66 dB	72 dB
TYPE I (Sony BHF)		57 dB	64 dB	70 dB

Total harmonic distortion
0.7 % (with Sony METALLIC and FeCr cassettes)

Frequency response DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
10 - 20,000 Hz
15 - 19,000 Hz (± 3 dB)
15 - 14,000 Hz (± 3 dB, 0 VU recording)
15 - 19,000 Hz (DIN)
- With TYPE III cassette (Sony FeCr)
10 - 20,000 Hz
15 - 19,000 Hz (± 3 dB)
15 - 19,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
10 - 20,000 Hz
15 - 18,000 Hz (± 3 dB)
15 - 18,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
10 - 19,000 Hz
15 - 17,000 Hz (DIN)

Wow and flutter 0.02% WRMS (NAB)
 $\pm 0.055\%$ (DIN)

Inputs Line inputs (phono jacks)
Sensitivity 77.5 mV (-20 dB)
Input impedance 50 k ohms

- Continued on page 2 -

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK $\text{\textcircled{4}}$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



SONY

SERVICE MANUAL

Outputs

Fixed line outputs (phono jacks)
Output level 0.435 V (-5 dB) at a load impedance of 50 k ohms
Load impedance over 10 k ohms
Variable line outputs (phono jacks)
Maximum output level 0.435 V (-5 dB) at a load impedance of 50 k ohms with LINE OUT level control at "0"
Variable in five steps from -5 dB to -29 dB
Load impedance over 10 k ohms
Headphone output
Output level variable in five steps from -20 dB to -44 dB at a load impedance of 8 ohms

Tape Transport Mechanism	TCM-120D3
--------------------------	-----------

0 dB = 0.775 V

General

Power requirements 220 V ac, 50/60 Hz
(240 V ac adjustable by authorized Sony personnel)
Power consumption 50 watts
Dimensions Approx. 430 × 105 × 390 mm (w/h/d)
(16⁷/₈ × 4¹/₈ × 15³/₈ inches)
including projecting parts and controls
Weight Approx. 10.0 kg (22 lbs 1 oz)

LED peak program meters

Response range -40 dB to +10 dB
Frequency response 20 - 20,000 Hz ±1.5 dB
Response time 1 millisecond
Decay time (from 0 dB to -20 dB) 750 milliseconds
Overshoot none
Indicator elements 30 elements for each channel

Note

Appliance conforms with EEC Directive 76/889 regarding interference suppression.

FEATURES

Three-head system

Separate record and playback heads allow optimum gap settings and impedance ratings for distortion-free recording and greatly extended frequency response. For good tape-to-head contact the heads are mounted in one block and each head is separately adjusted for precise azimuth alignment. The three-head system also enables you to monitor the recorded tape while actually recording.

Newly-developed LA (LaserAmorphous) heads

The record and playback heads are made of a special amorphous magnetic alloy developed by Sony, and its cores are solidly welded by laser. This new highly-durable head provides a wider dynamic range and a more extended frequency response, especially in the high-frequency range. The head is designed to take full advantage of the potential of the metal tapes.

Closed-loop dual-capstan tape drive system

Two pairs of capstans and pinch rollers ensure uniform tape tension and stable tape-to-head contact. As a result, wow and flutter and modulation noise are greatly reduced.

Very stable tape speed

The motors for the capstan and reel drives are linear torque BSL (brushless and slotless) motors with an extremely smooth torque. The speed of the capstan motor is regulated by a crystal oscillator. The shaft of the capstan motor drives the tape directly to eliminate any fluctuation in the tape speed which might be caused by belts or idlers.

Bias and record level calibration

Bias current can be precisely adjusted to the optimum level for any tape on the market, assuring the flattest possible frequency response. Furthermore, the sensitivity of the tape can be compensated for, permitting optimum performance of the Dolby NR system.

Vibration-free aluminum alloy chassis

The chassis of the tape transport mechanism is made of 3 mm (¹/₈ in.) thick aluminum alloy plate, which suppresses resonance of the chassis and greatly reduces the transmission of vibration to the tape.

The chassis of the amplifier section is of copper-plated steel having 5 sides, which prevents eddy-current from circulating and reduces harmonic distortion.

High-quality amplifier section

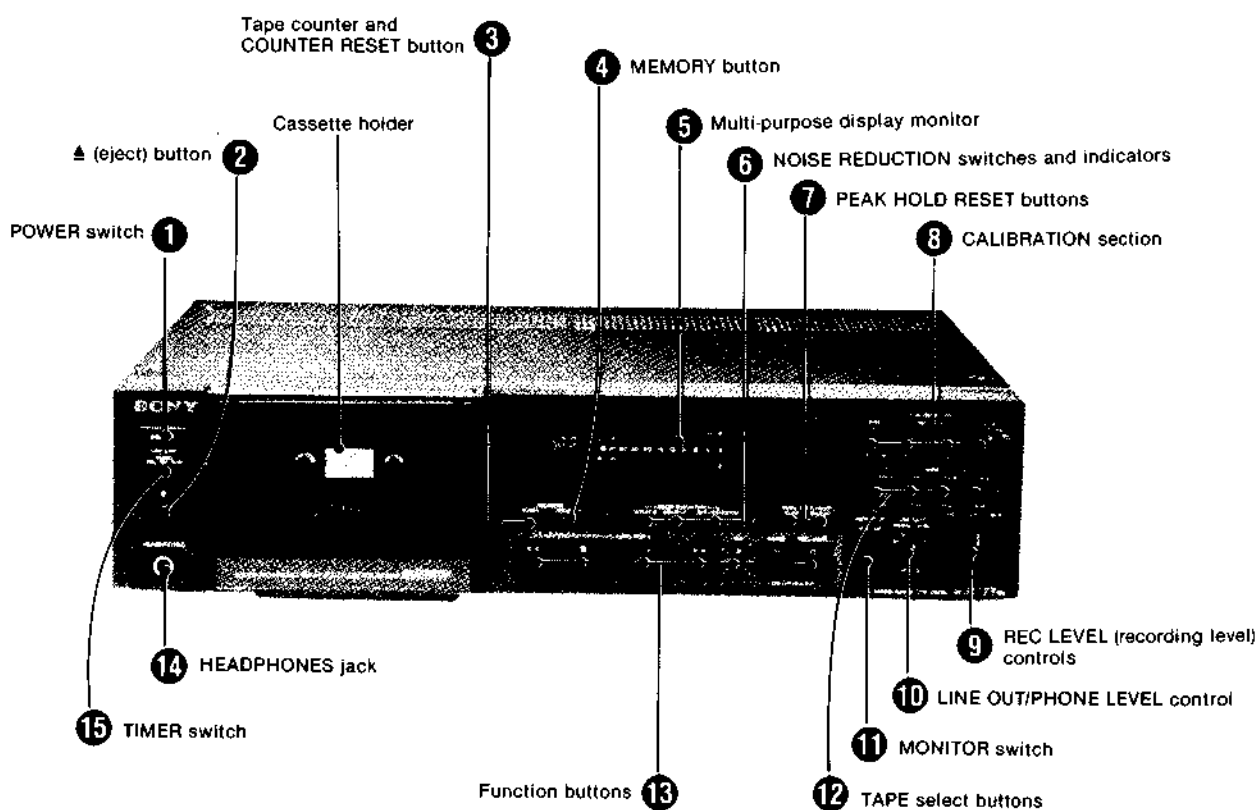
This cassette deck incorporates a dc amplifier design which assures true fidelity down to the dc region.

The recording section and the playback section of the right and left channels are physically separated with the signal paths of the right and left channels parallel, using the symmetric Dolby NR ICs. The channel circuits themselves are well separated by a busbar to eliminate interference.

The electronic components used have been carefully selected to provide the highest possible sound quality, as exemplified by the gold-plated input and output jacks and the use of a newly-developed dual FET.

FUNCTION OF CONTROLS

The numbers in the photo are keyed to the following explanations.



1 POWER switch

Depress this switch to turn on the power. The lamp in the cassette holder, the display of the peak program meters and the tape counter will light up. The **II** indicator lamp of the PAUSE button will blink for about 4 seconds, indicating that the function buttons are inoperative during this period.

Press this switch again to turn the power off.

2 (eject) button

Press this button to open the cassette holder.

3 Tape counter and COUNTER RESET button

The tape counter shows the tape running time. Press the COUNTER RESET button to reset the tape counter to ".00."

4 MEMORY button

Press to rewind the tape to the ".00" point on the tape counter. The word "MEMORY" is displayed below the tape counter. Pressing the **▶** button together with the **◀◀** button automatically starts playback from ".00."

When you do not use the memory function, press this switch again. The word "MEMORY" will disappear.

① Multi-purpose display monitor

When the CALIBRATION MODE switch is at the OFF position, the peak program meter scale is displayed. The meter shows the recording level of each channel with the MONITOR switch set at SOURCE and the recorded levels with the MONITOR switch set at TAPE. When the CALIBRATION MODE switch is set to BIAS, the display changes to the scale used for bias calibration and when the switch is set to REC LEVEL, the display changes to the scale for record level calibration.

② NOISE REDUCTION switches and indicators

To record or play back using the Dolby* B-type NR system, press the DOLBY B switch. To record or play back using the Dolby C-type NR system, press the DOLBY C switch. The corresponding indicator lights up.

To record or play back without the Dolby NR process, press the OFF (STRAIGHT) switch.

These switches will not operate while the deck is in the record or playback mode.

* "Dolby" and the double-D symbol are trade marks of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

③ PEAK HOLD RESET buttons

You can choose either of two ways to have the peak level indicated:

- When the AUTO button is pressed down, successive peaks are held for about 2.5 seconds, except when a higher peak occurs before 2.5 seconds have passed, in which case that peak is immediately indicated.

- When the non-locking MANUAL button is pressed, the peak level will be held on the scale until a higher peak occurs, when that peak will be held. To reset the peak held on the meter, just press this button. You will find this method of indicating the peak input useful when you want to know the highest peak of a tape or disc, or when you want to know both the highest peak as well as the intermittent input levels during live recording.

④ CALIBRATION section

These dials are used for the bias and recording level calibration.

⑤ REC LEVEL (recording level) controls

These controls adjust the recording level. The knob nearest the panel is for the left channel and the other knob for the right channel. To adjust the level of the left or right channel only, turn the appropriate knob while holding the other knob.

⑥ LINE OUT/PHONE LEVEL control

This control governs the output level of the VARIABLE LINE OUT jacks as well as the headphone level. At the "0" position, the output level of the VARIABLE LINE OUT jacks is rated at 0.435 V and the headphone level is rated 77.5 mV (at a load impedance of 8 ohms). When this control is set to the "3" position, the level is reduced by 3 dB, and by setting it to "6," "12," or "24," the level is reduced by that amount, i.e., by 6 dB, 12 dB, or 24 dB, from the rated output obtained at the "0" position.

These settings do not affect the peak program meters or the output level of the FIXED LINE OUT jacks.

⑦ MONITOR switch

When adjusting the recording level, set this switch to SOURCE to allow monitoring of the sound to be recorded. During playback, set this switch to TAPE to allow monitoring of the recorded sound. During recording, use this switch to monitor either the source or the recorded sound.

⑧ TAPE select buttons

Depress the TAPE button corresponding to the type of tape being used. The type of tape will be displayed on the display monitor.

⑨ Function buttons

It is possible to switch directly from one mode to another.

- ◀ (rewind) button: Press this button to rewind the tape. This button is also used, with the ▶ button, to initiate auto play.

- ▶ (forward) button: Press this button to play the tape back. To record, press this button while holding the ● button down.

- ▶▶ (fast-forward) button: Press this button to advance the tape rapidly.

- (record) button: Press this button together with the ▶ button to start recording. Also press this button before adjusting the recording level.

- (stop) button: To stop the tape, press this button. The tape will stop automatically when it is completely wound in either direction.

- ⏸ PAUSE button: To pause for a moment during recording or playback, press this button. This button is also used to control more precisely the start of recording and to release the record muting mode.

- Ⓞ REC MUTE (record muting) button: Press this button to eliminate unwanted material and to insert a blank space during recording.

⑩ HEADPHONES jack

Headphones may be inserted either to monitor the input signals to be recorded or to listen to a recording in the playback mode.

Headphone volume is adjustable with the LINE OUT/PHONE LEVEL control.

⑪ TIMER switch

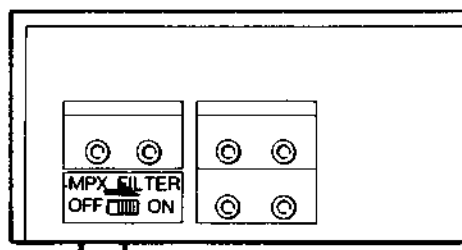
You can set the unit to record or play back at a predetermined time by connecting any commercially available timer. To record, set this switch to REC. To play back, set it to PLAY.

MPX FILTER switch

Normally set this switch to OFF.

When recording FM stereo broadcasts with the Dolby NR system, set it to ON if the 19 kHz pilot signal and the 38 kHz subcarrier have not been adequately suppressed by the FM tuner or receiver. The word "FILTER" will be displayed on the monitor.

If the tuner or the receiver suppresses such signals adequately (most high-quality tuners and receivers will), you do not have to set this switch to ON.



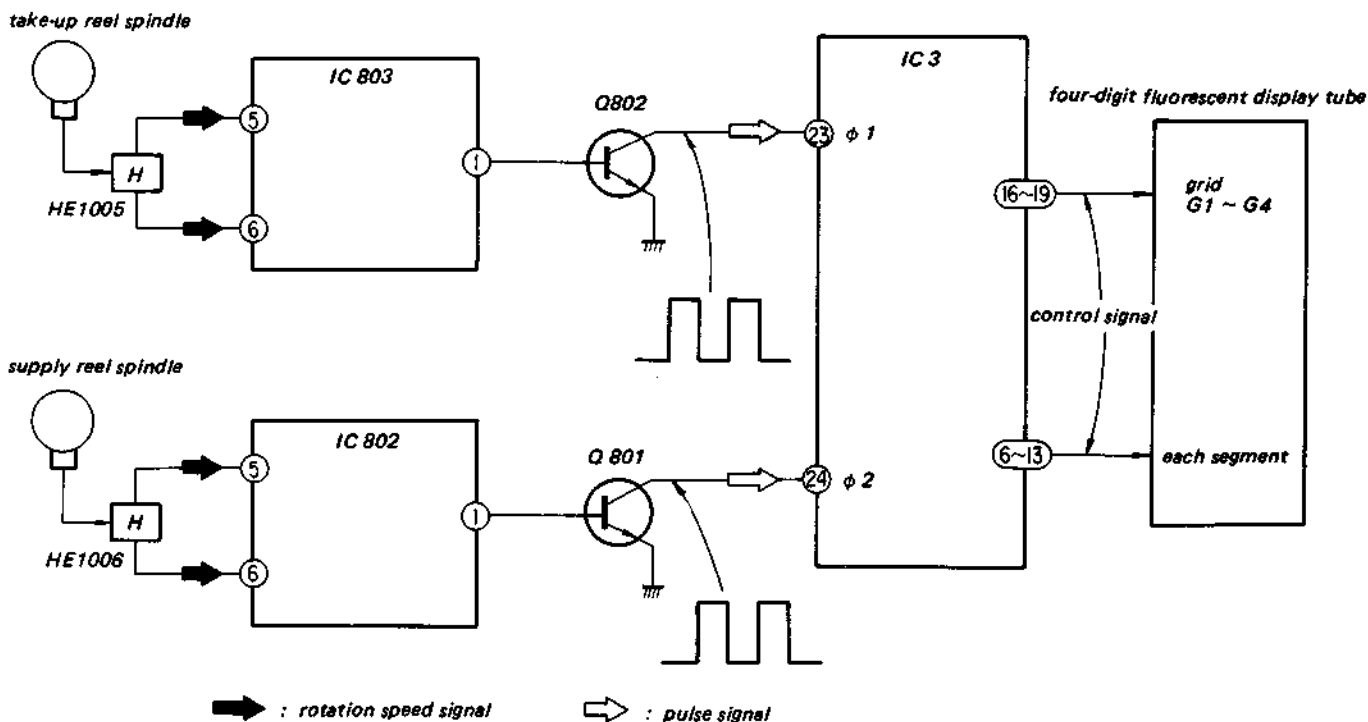
SECTION 1
OUTLINE

1-1. CIRCUIT DESCRIPTION

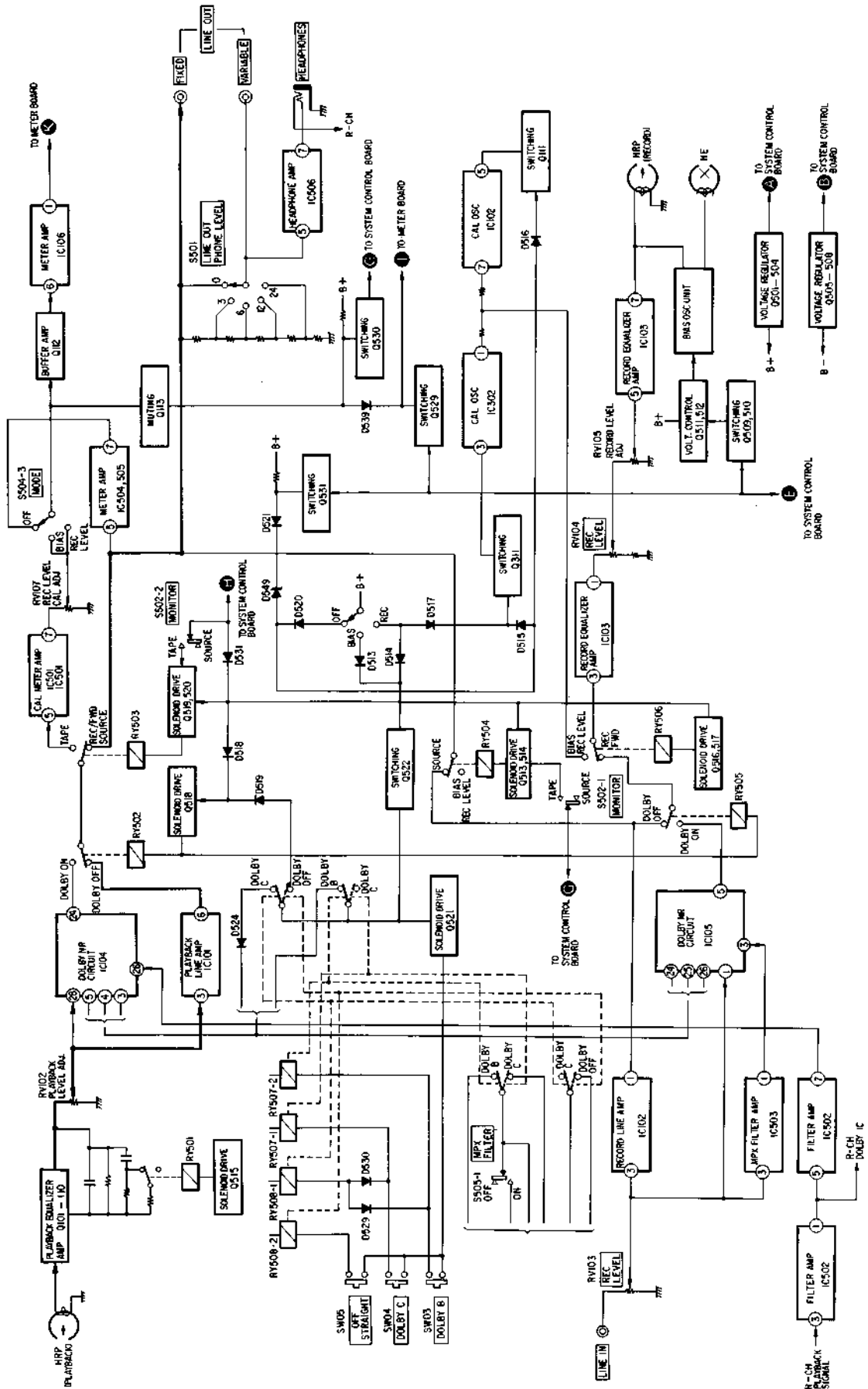
Linear Counter

This set uses a new type electrical tape counter, instead of the conventional belt-driven mechanical tape counter, by adopting a microcomputer. This tape counter displays the tape-travelling time linearly in actual time in continuous record and playback modes. The tape-travelling time is calculated by the microcomputer IC3 by determining the rotational speeds of the reel spindles. This is done by detecting various factors such as the diameters of the remaining and wound tapes in the supply and take-up reel spindles, diameter of fully-wound tape, diameter of the reel hub, and the tape-travelling speed. This linear tape counter is intended for cassette tapes C-60, C-90 and C-120. The tape counter can not be used with cassette tapes C-46 and C-30. However, the display of the counter also runs linearly when using cassette tapes C-30 and C-46.

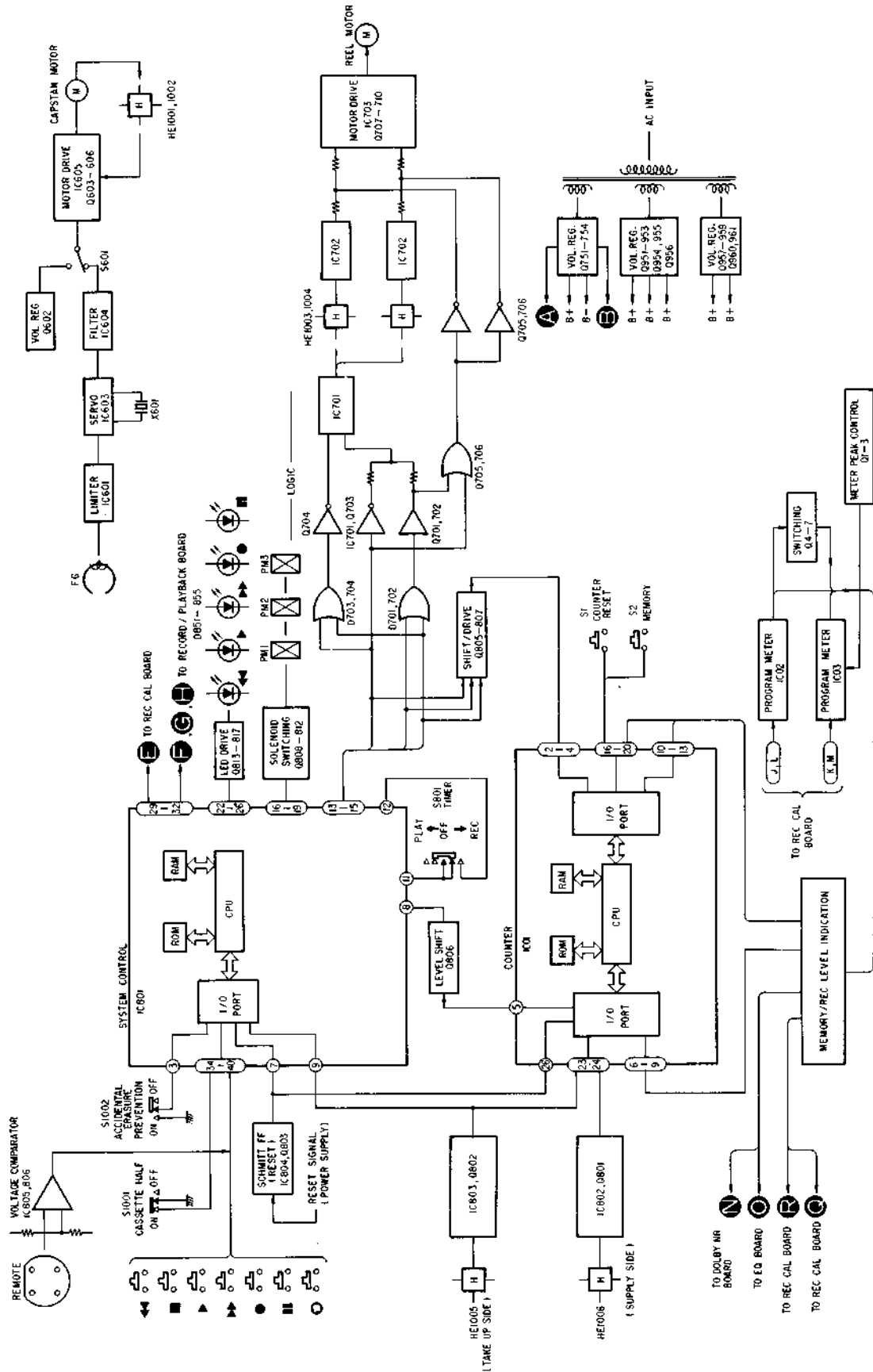
In the supply and take-up reel spindles, there is a magnet magnetized at the plural poles, which detects the rotation at the hall elements (HE1005, 1006), then obtains signals as to the rotation speed of supply and take-up reel spindles. These signals are applied to IC803, IC802 and amplified. The pulse output generated here is applied to terminals ②③ and ②④ of IC3 (microcomputer). IC3 processes and corrects the operation to make the pulse counting for one count per second, and processes carry and decarry operations. Terminals ⑥ to ⑬ output signals for each segment. Terminals ⑯ to ⑲ output grid-drive signals for the fluorescent display tube. Due to these output signals, the display tube displays four-digit digital minutes/seconds figures in a linear (time-wise) manner.



1-2. BLOCK DIAGRAMS - Audio Amp Section -

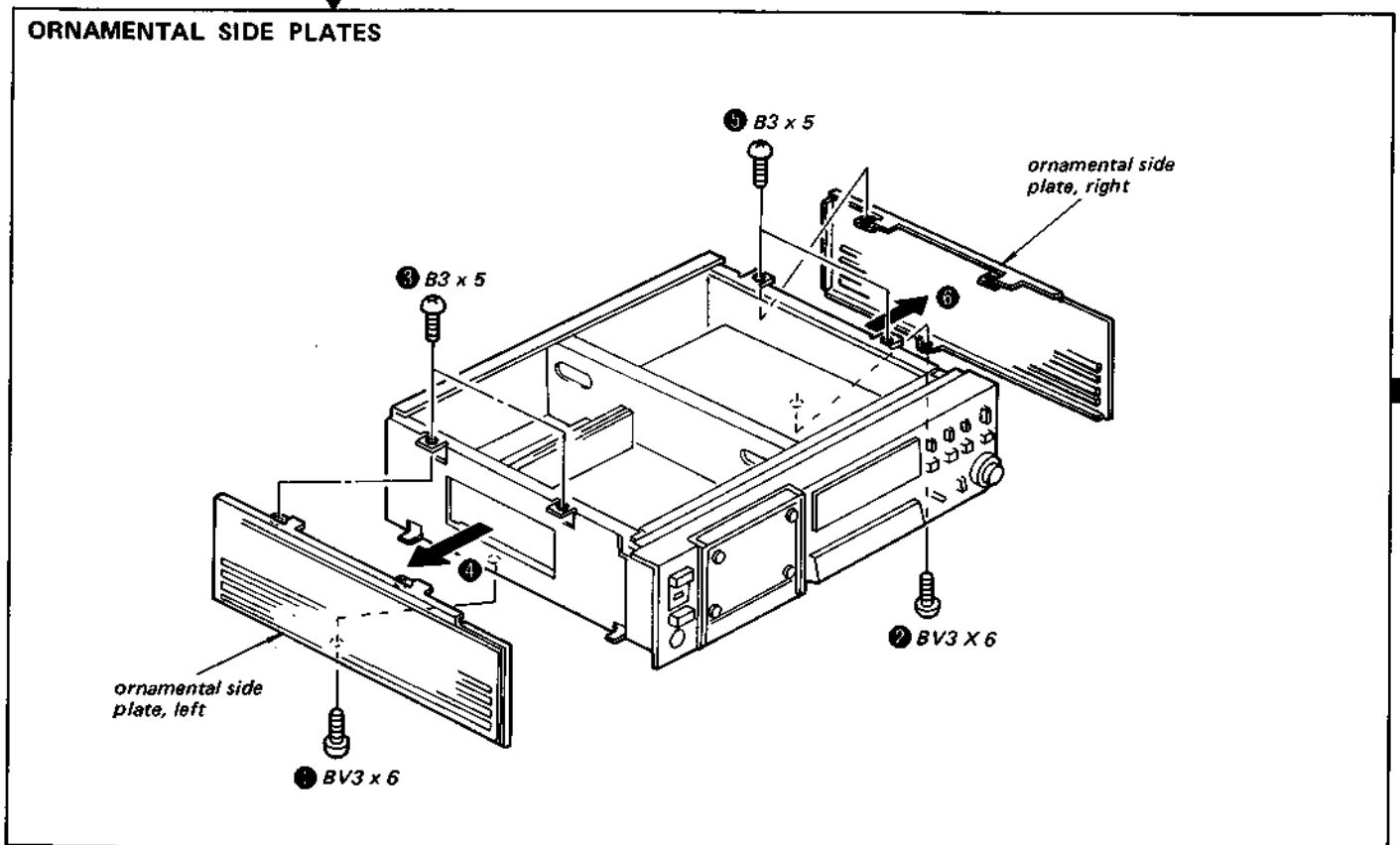
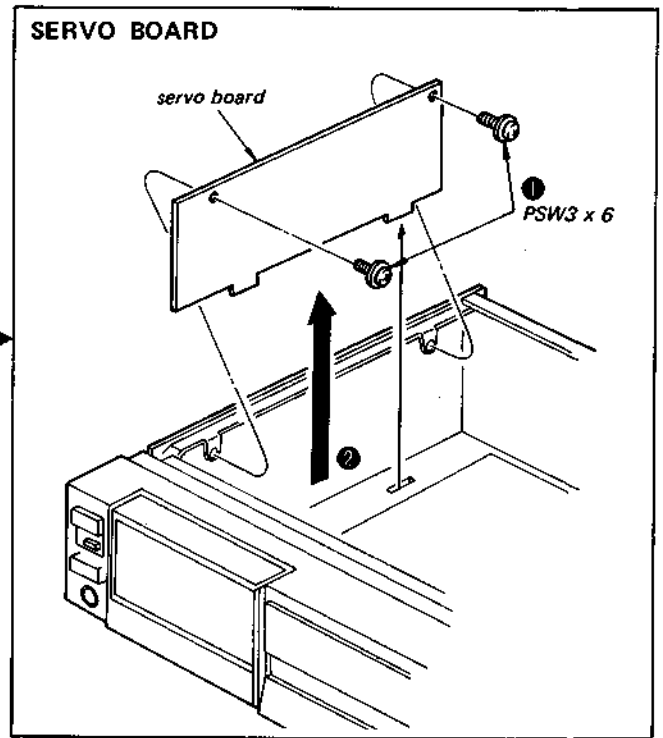
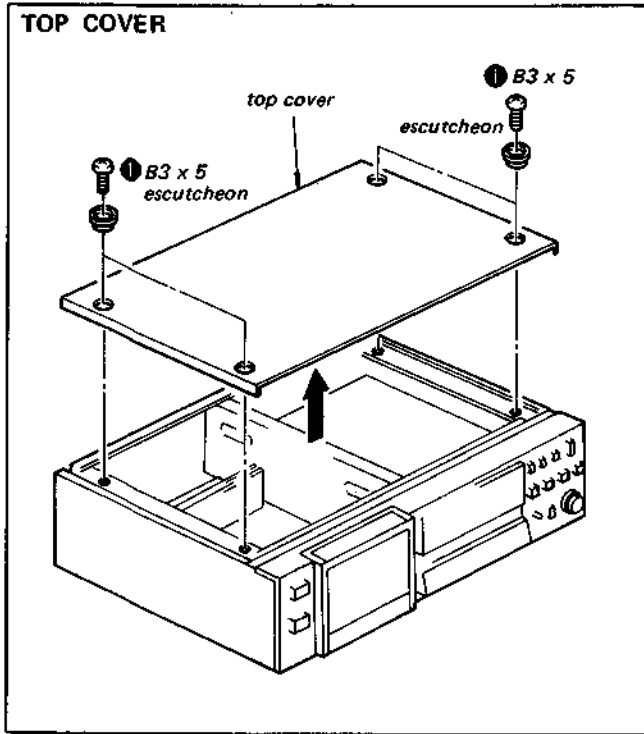


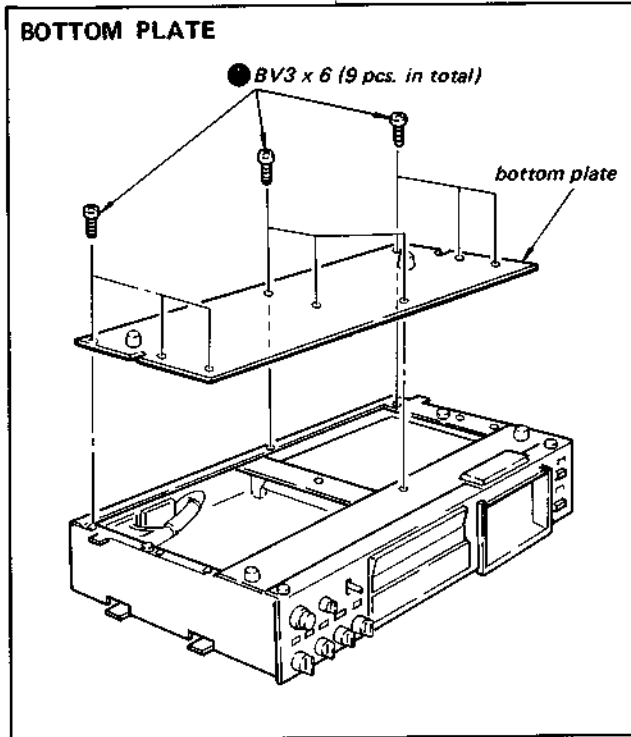
- System Control and Servo Amp Section -



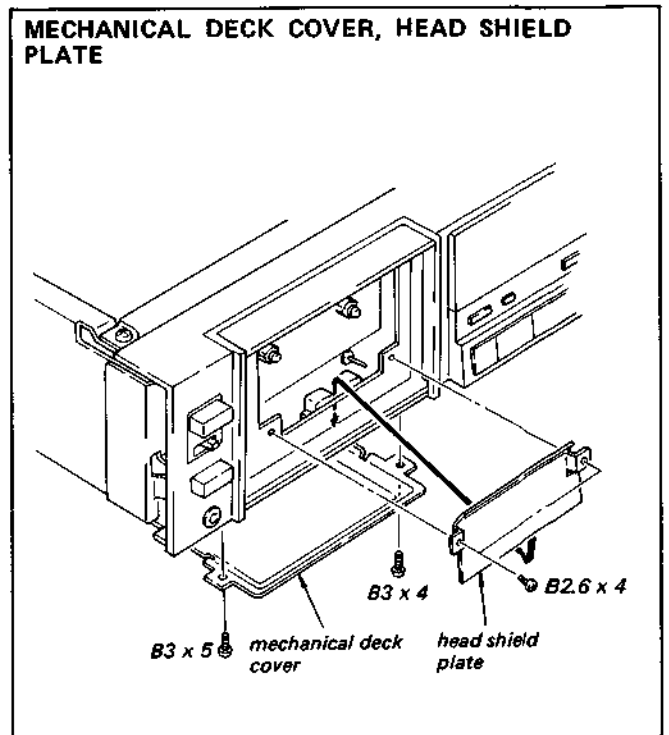
**SECTION 2
DISASSEMBLY**

Note: Follow the disassembly procedure in the numerical order given.

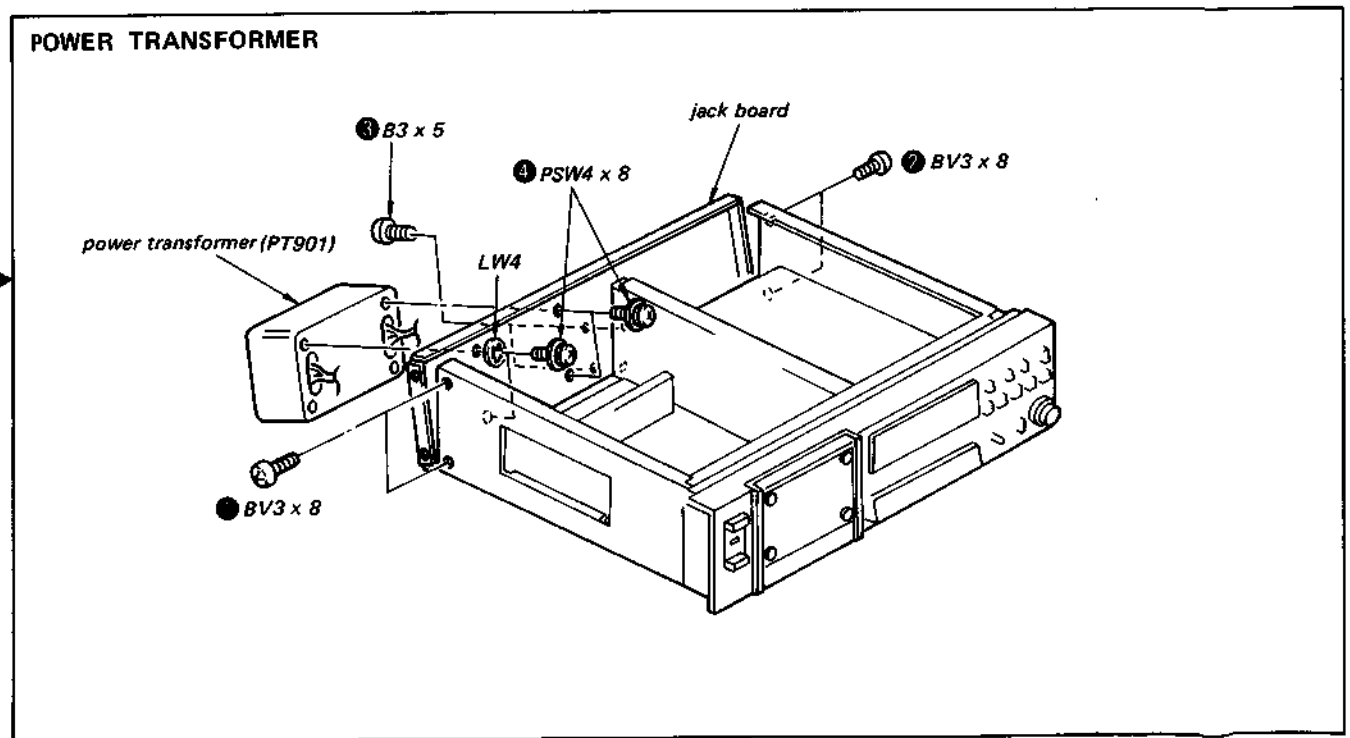




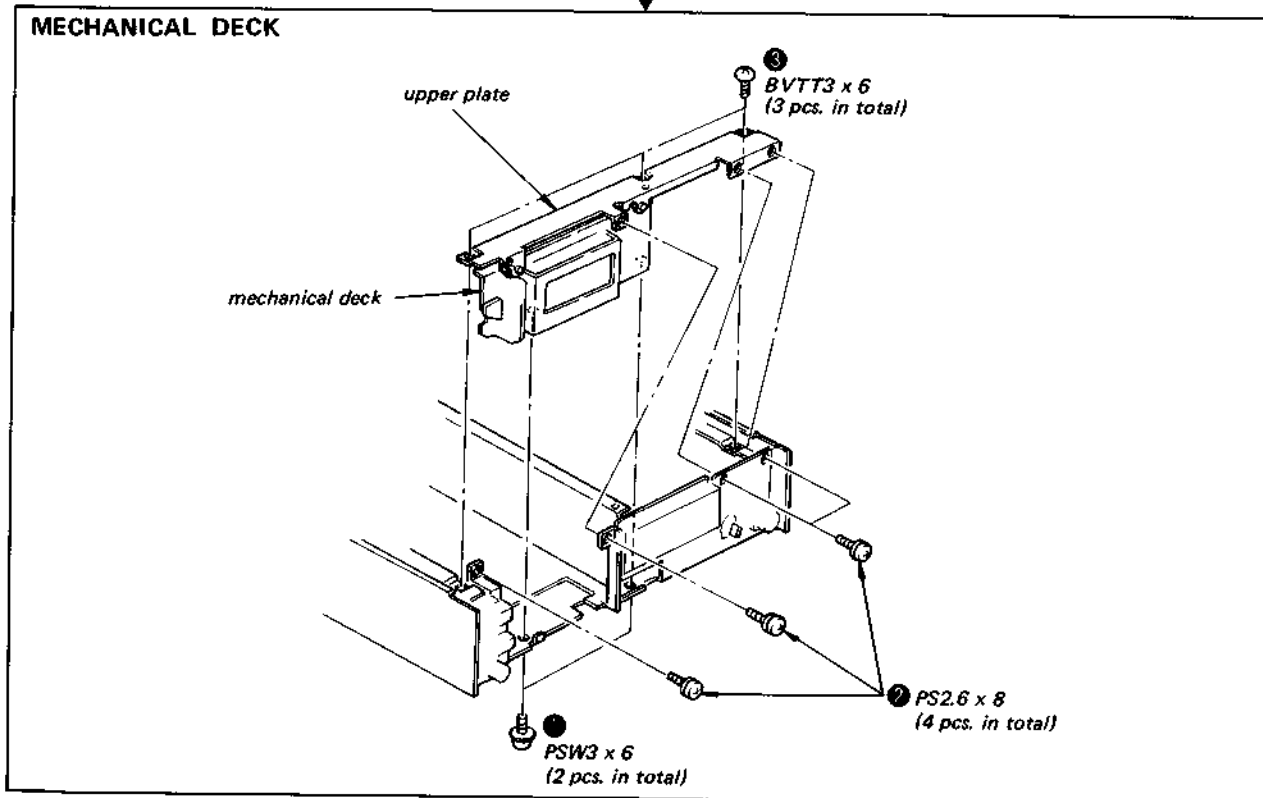
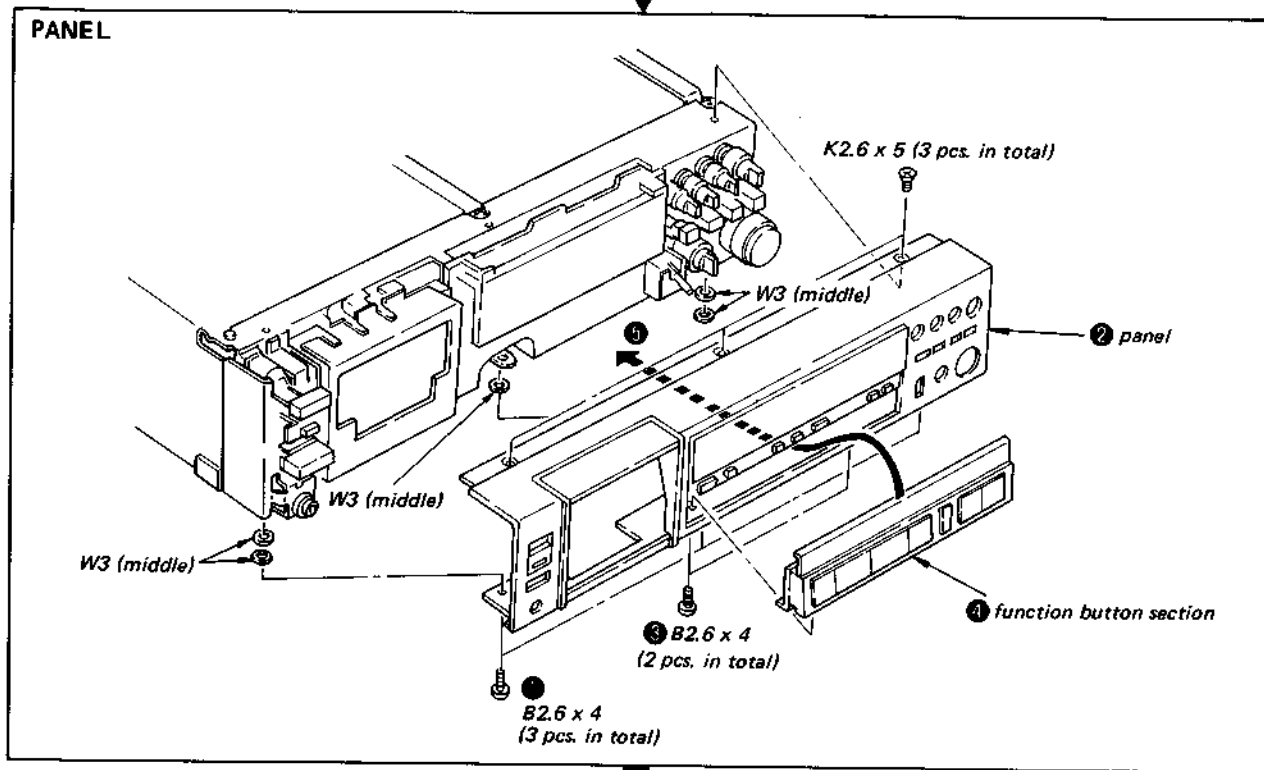
● Dolby NR board and system control board can be checked.

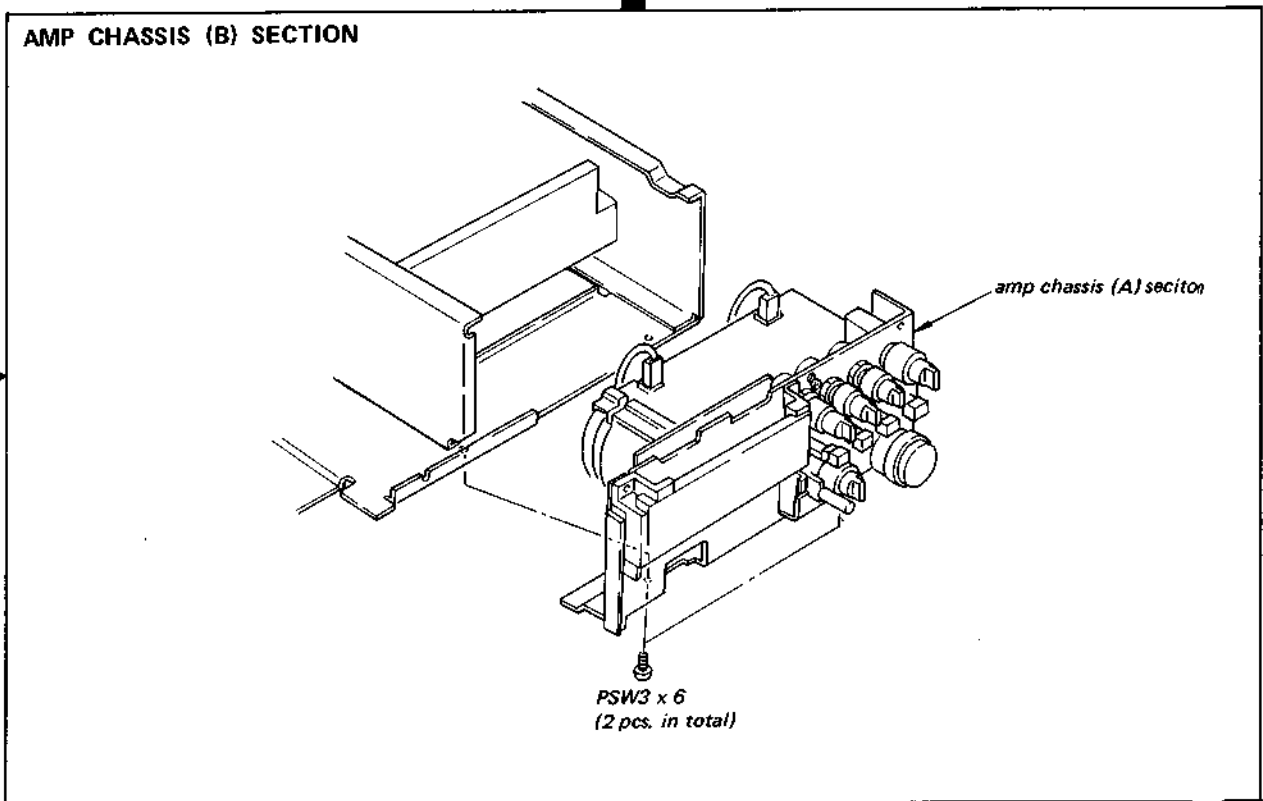
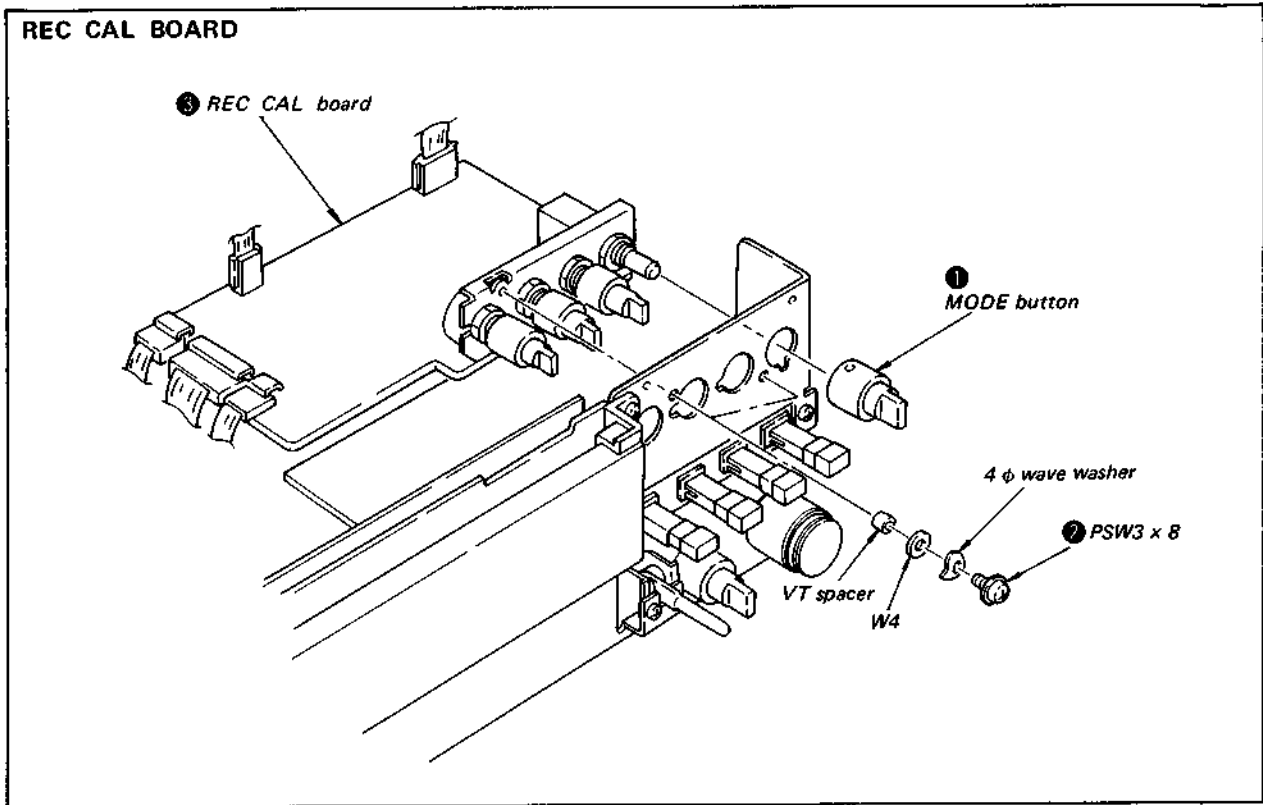


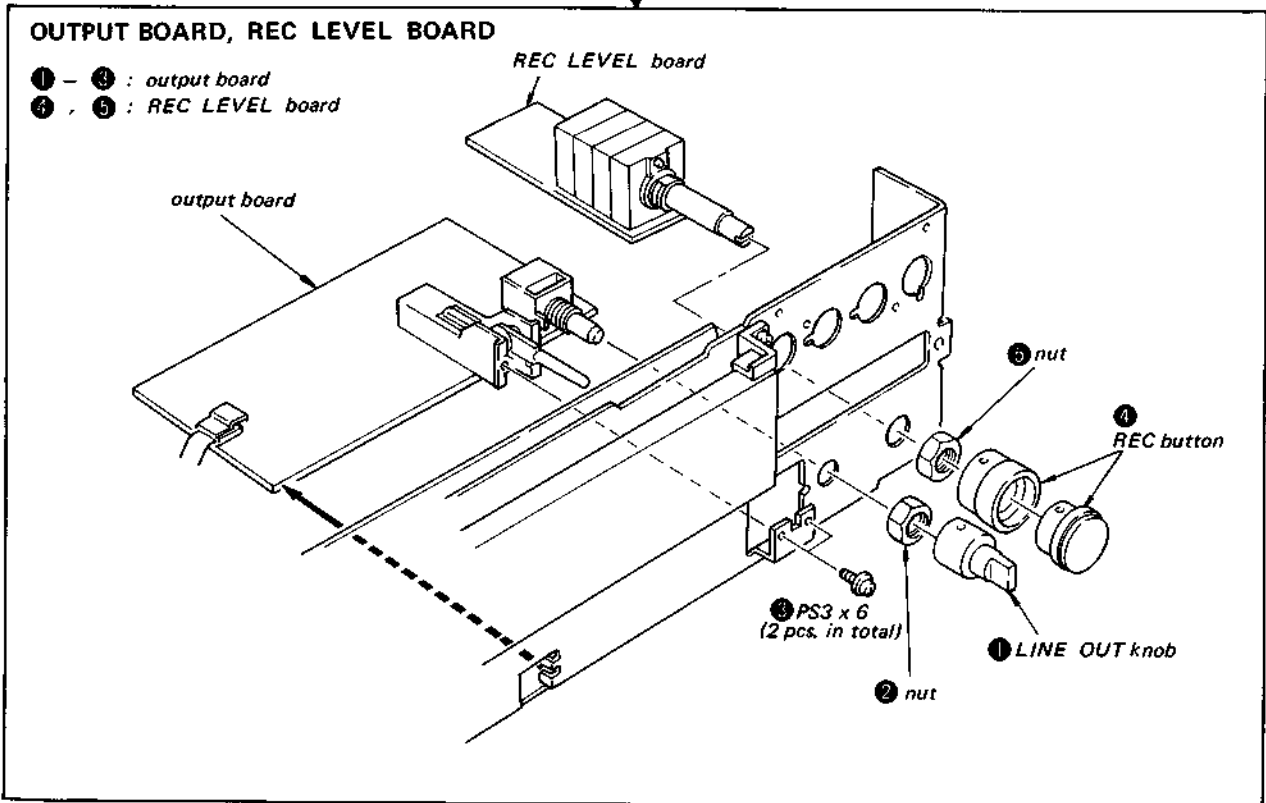
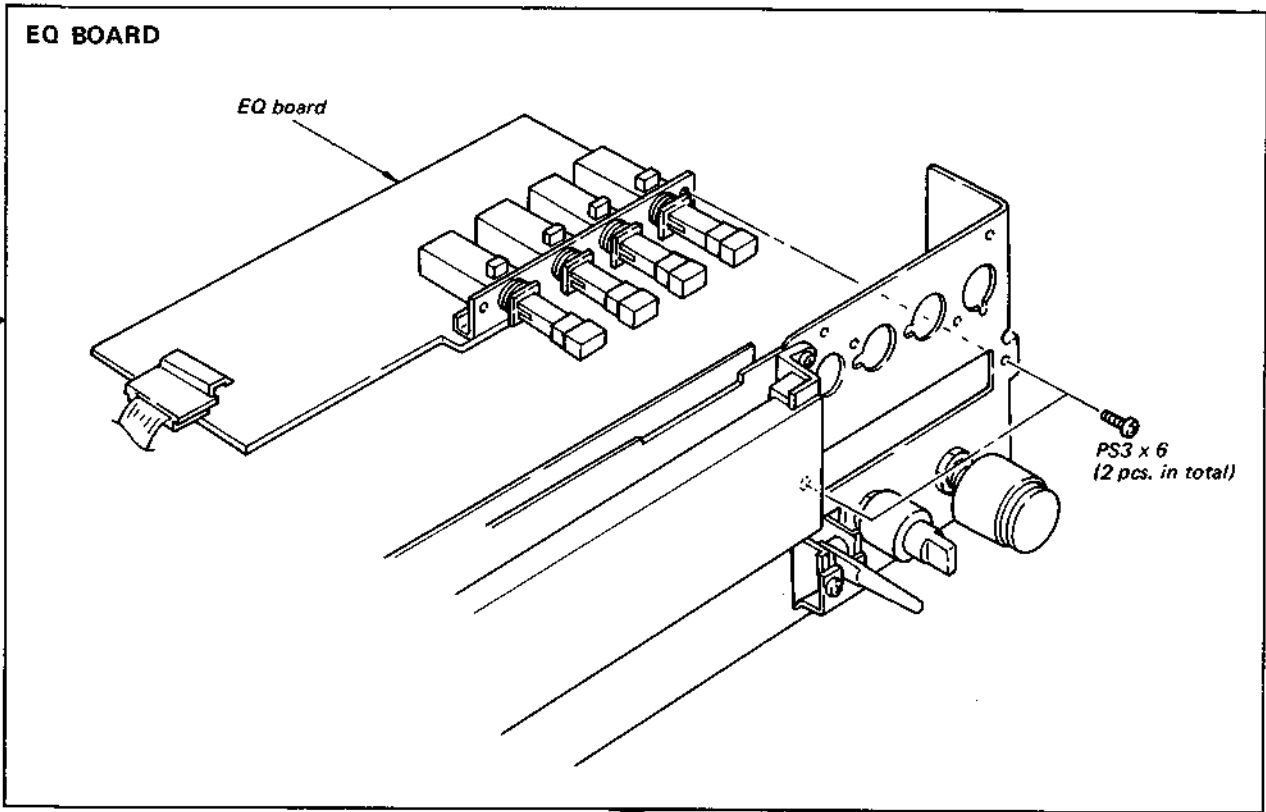
● The area around the head can be checked.



- Remove the top cover (See page 8)

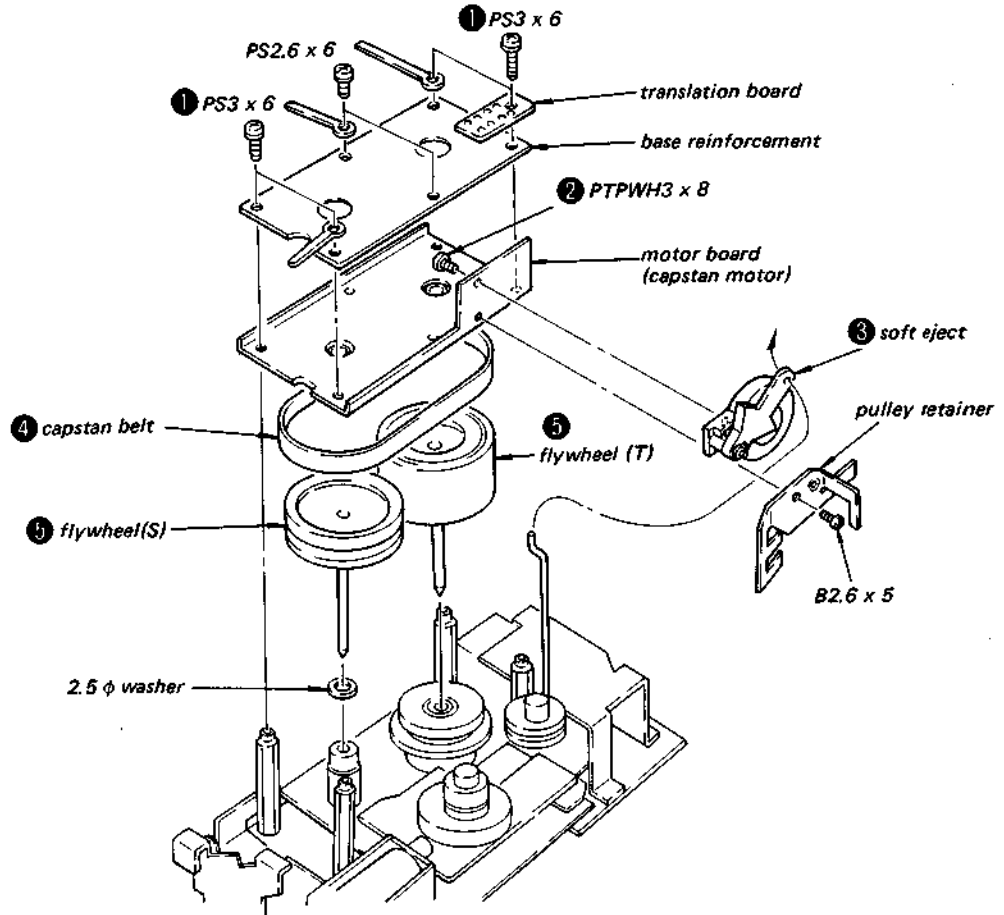




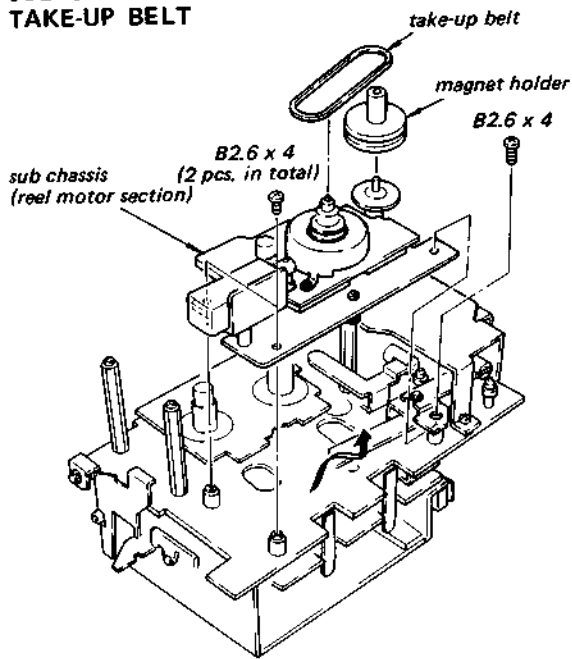


● MECHANISM SECTION REMOVAL

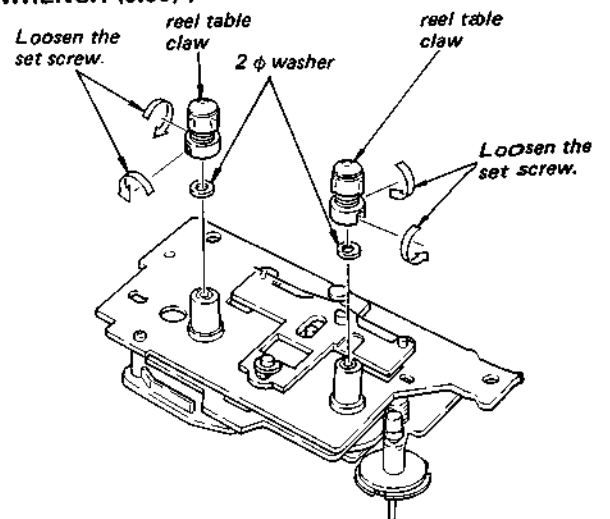
MOTOR BOARD (CAPSTAN MOTOR SECTION), CAPSTAN BELT



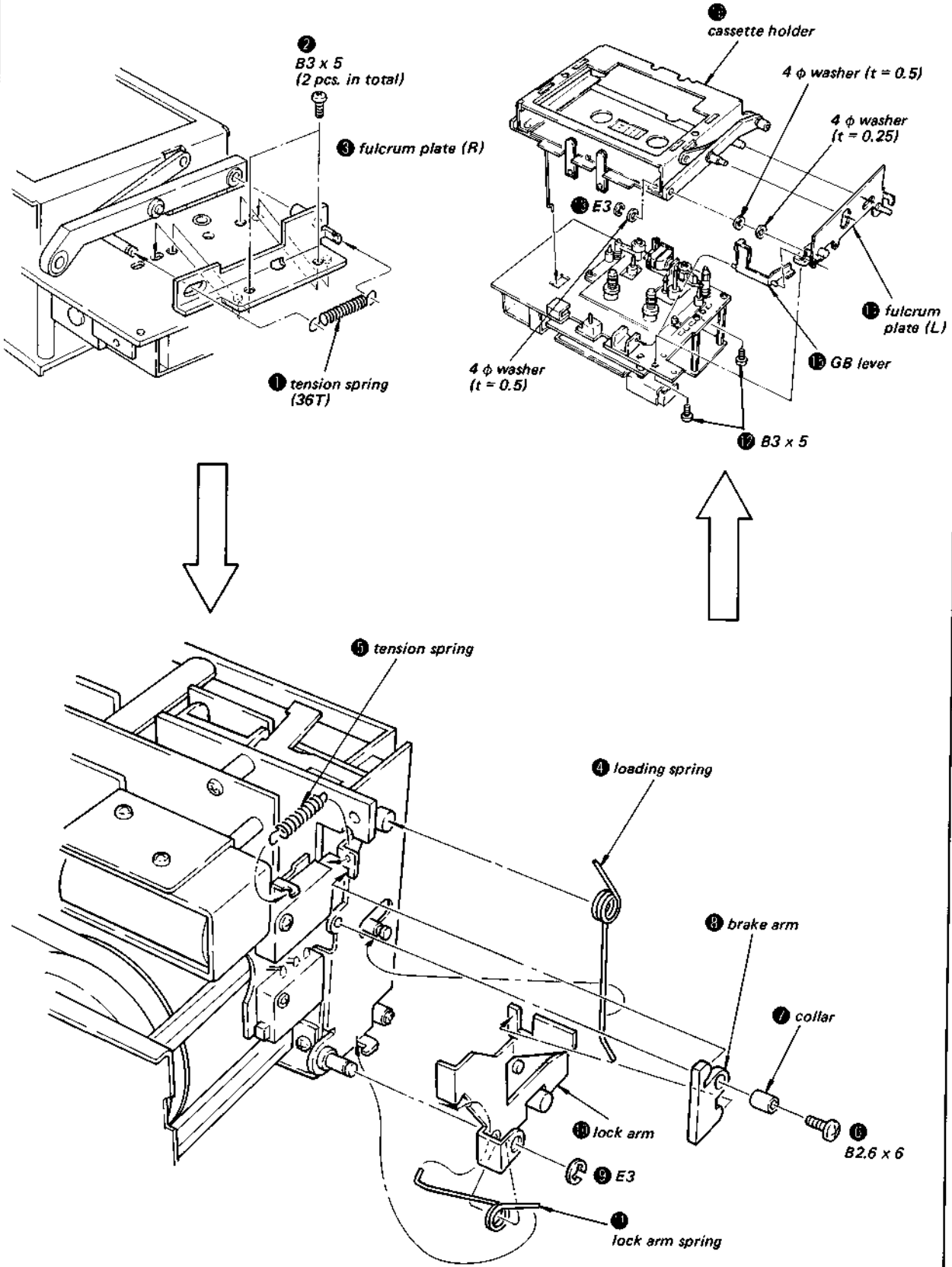
SUB CHASSIS (REEL MOTOR SECTION), TAKE-UP BELT



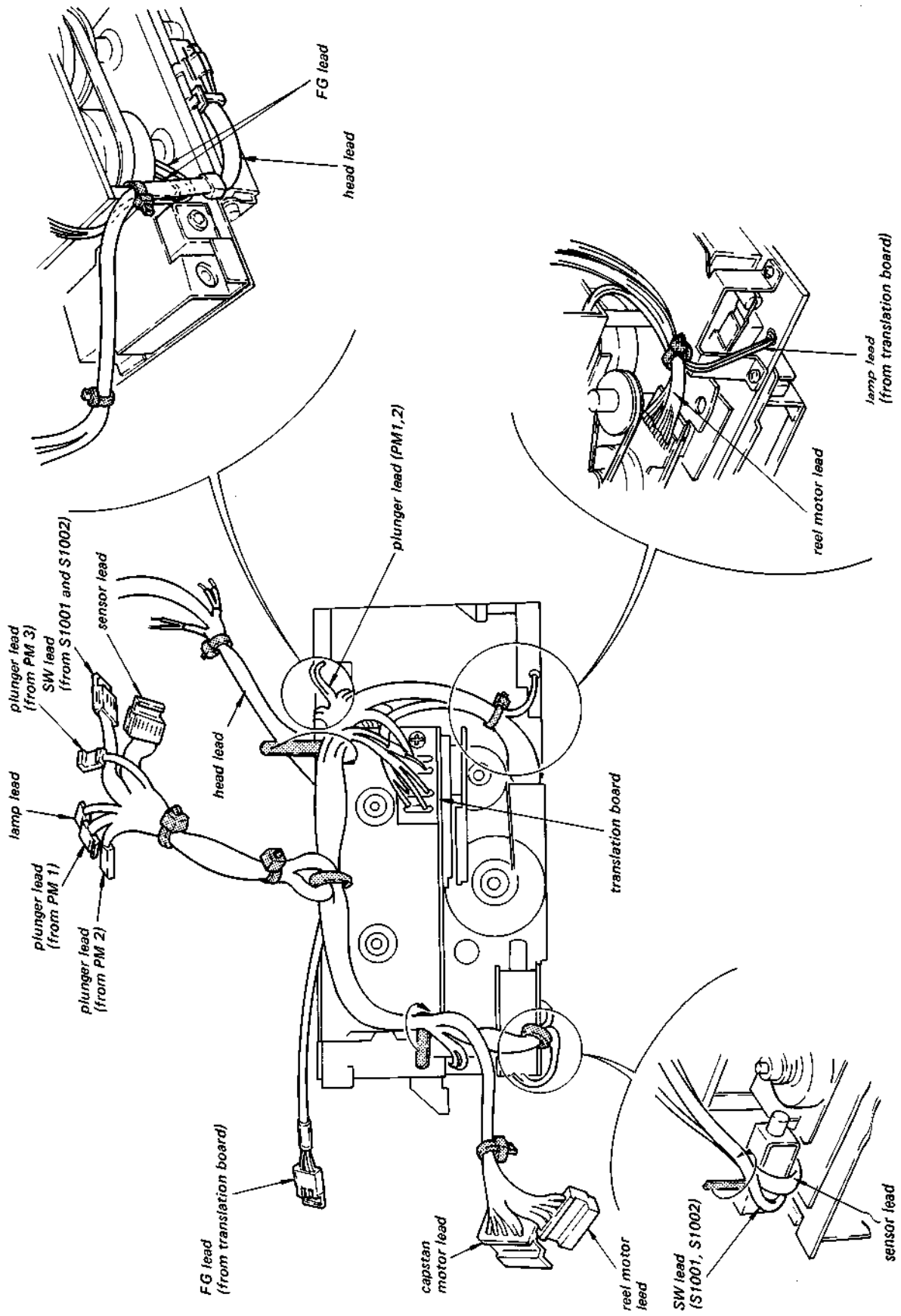
REEL TABLE CLAW (USE OF HEXAGONAL WRENCH (0.89))



CASSETTE HOLDER



MECHANISM SECTION WIRING REFERENCE DIAGRAMS

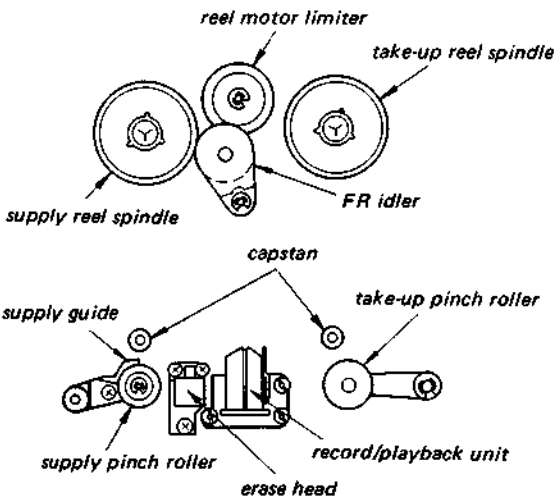


SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

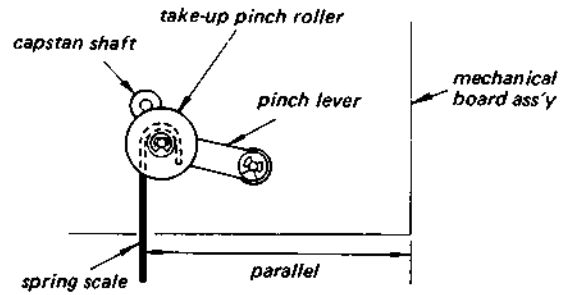
Precaution

1. Clean the following parts with a denatured alcohol-moistened swab.



2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.

Pinch Roller Pressure Adjustment

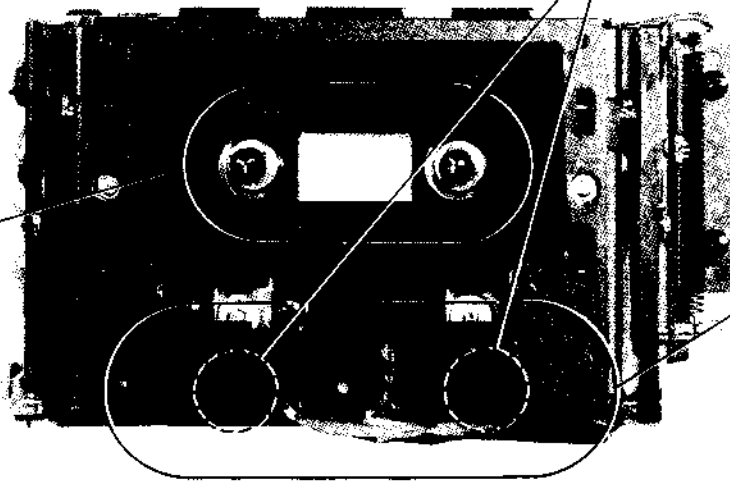


1. Make sure that the capstan shaft and pinch roller are parallel.
2. In forward mode, pull the spring scale slowly so that it is parallel to the surface of the mechanical board ass'y and read the spring scale when the pinch roller starts rotating.

Specification

	pinch roller pressure
take-up side	220 - 380 g
supply side	180 - 280 g

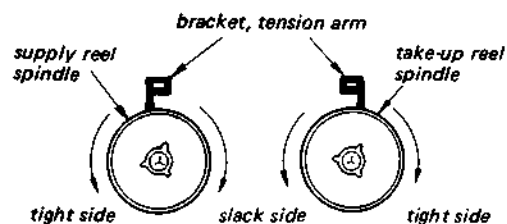
3. If necessary, change the position of pinch roller plunger. (Refer to Pinch roller/Head Plunger Position Adjustment on page 18.)



Brake Torque Adjustment

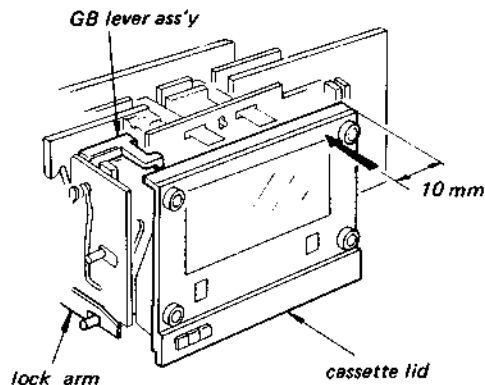
Specification

- Tight side: 100 - 200 g·cm (1.4 - 2.8 oz·inch)
 Slack side: less than 90 g·cm (1.3 oz·inch)



Cassette Holder Operation

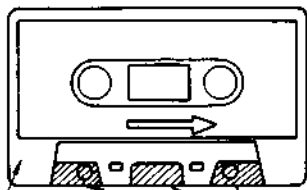
1. Insert a cassette tape (C-90 with erasure prevention tab) into the cassette holder and push the portion shown by the arrow. Make sure that the cassette holder is locked, the GB lever ass'y is lowered and the lock arm returns completely.
2. Make sure that the cassette holder opens smoothly in 0.6 – 1.5 seconds.



Head Height Adjustment

Insert a mirror cassette or adjustment cassette and adjust screws A – C so that the tape enters the tape guide of the record/playback head smoothly when pushing the head base out by hand.

1. Make an adjustment cassette as shown below or use a mirror cassette.

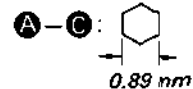
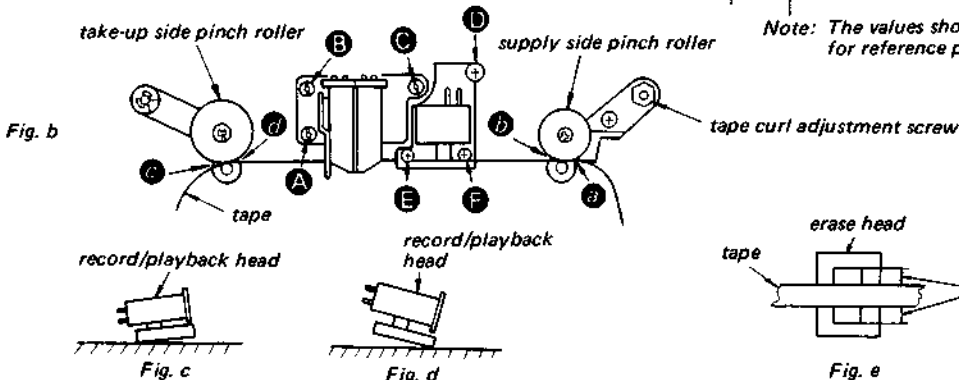
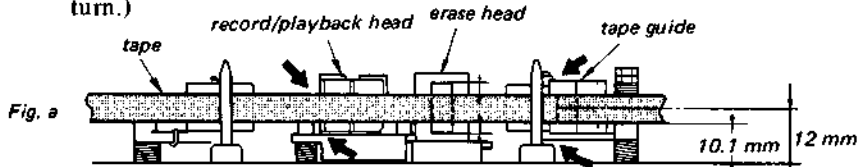


C120 cassette tape Cut out hatched portions.

2. Install the mirror cassette (or adjustment cassette) in the set. In playback mode, the tape should not curl at the portions shown by arrows (tape guides) in Fig. a. If the tape curls, adjust the height of tape guide of supply pinch roller.

Adjustment locations:

adjustment screw of tape curl in Fig. b
(Be careful not to turn the screw more than 1/2 turn.)

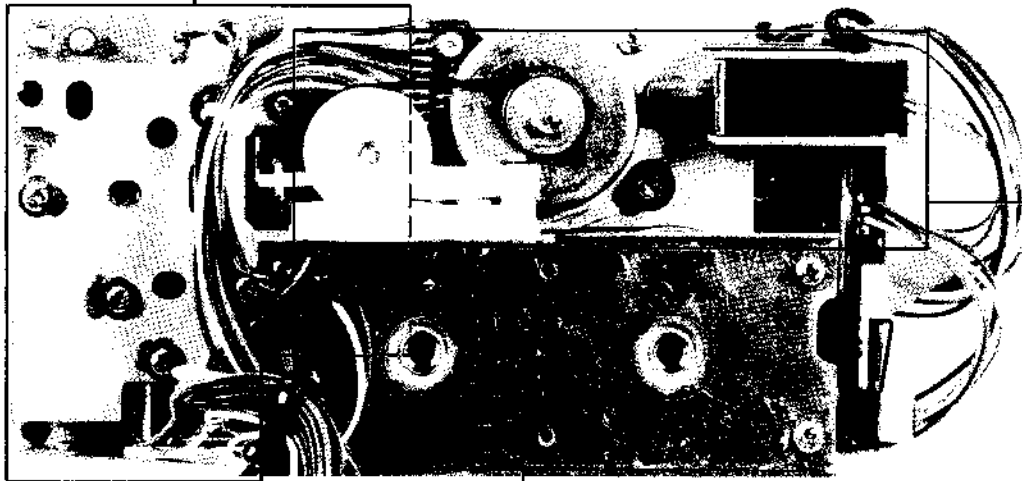
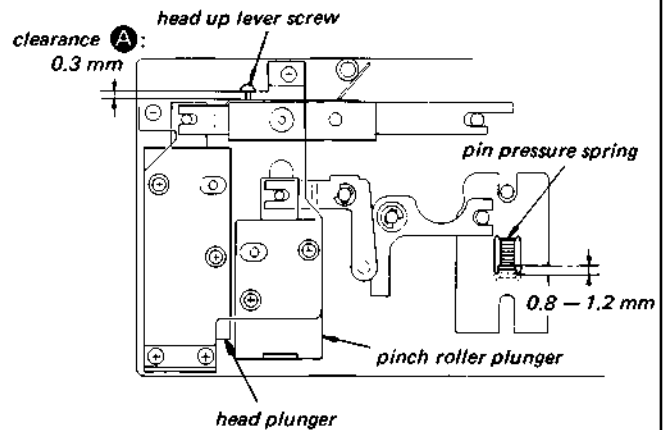


The tape should be placed in the center of the head.

3. Back tension: 0
Make sure that there is no tape twist at portions a – d.
 1. When the tape twists upwards:
Turn adjustment screws B, C of the record/playback head and recline the head as shown in Fig. C.
 2. When the tape twists downwards:
Turn adjustment screws B, C and recline the head as shown in Fig. D.
4. Measure the height of erase head.
If it is out of the range indicated in Fig. e, follow the procedures below.
 1. When the height of erase head is out of the range:
Adjust the height by screws D, E, F of the erase head.
 2. After adjusting the height of the erase head, make sure that the head is not inclined. If necessary, loosen or tighten adjustment screw D.

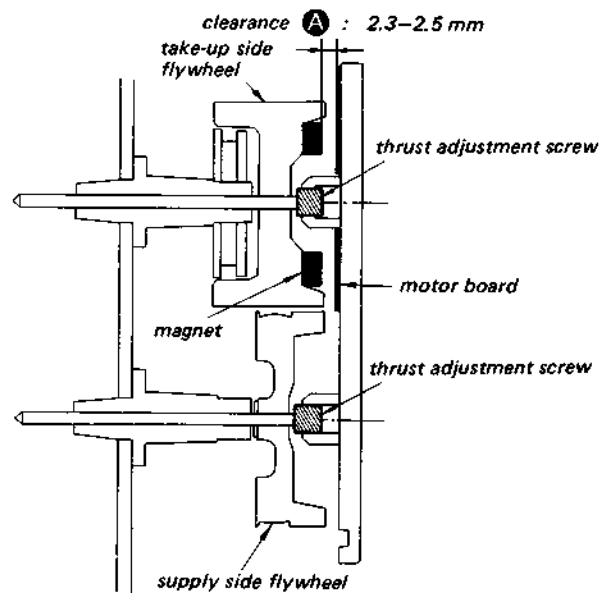
Pinch Roller/Head Plunger Position Adjustment

1. Position the head plunger so that clearance **A** is 0.3 mm.
2. Move the head plunger and the pinch roller plunger and adjust the position of the pinch roller plunger so that the pin pressure spring can move in the range of 0.8 mm — 1.2 mm.
3. Lock the plunger screw with suitable locking compound.



Take-up Side/Supply Side Flywheel Thrust Adjustment

1. **Take-up Side Flywheel**
Insert a spacer of 2.4 mm between the flywheel magnet and motor board and adjust the position of the magnet so that clearance **A** is between 2.3 mm and 2.5 mm.
2. **Supply Side Flywheel**
Tighten the thrust adjustment screw lightly till the flywheel does not move and then loosen it by 1/2 — 3/4 turns.
3. After the adjustment, lock the adjustment screw with suitable locking compound.



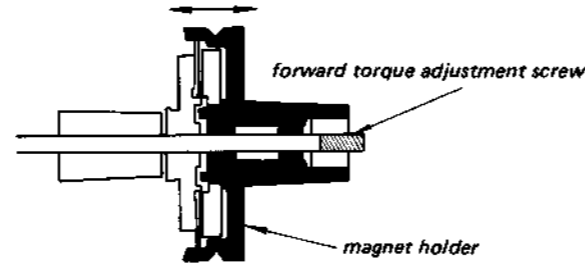
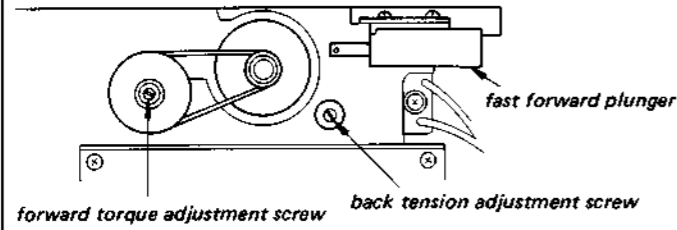
Forward Torque/Back Tension Torque Adjustment

1. Loosen adjustment screws of the forward torque and back tension torque till the magnet holder does not move and then turn them by 1/2 turn clockwise.
2. Connect the cassette torque meter (CQ-102B) and measure forward torque and back tension. If they do not meet the specifications, adjust the back tension adjustment screw.

Specifications:

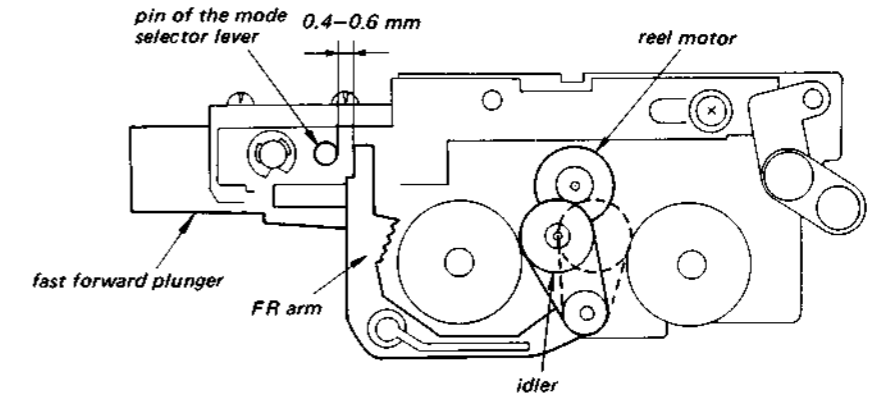
forward torque 35 – 45 g·cm
back tension torque 5.5 – 7.5 g·cm

3. Lock the adjustment screw with suitable locking compound.



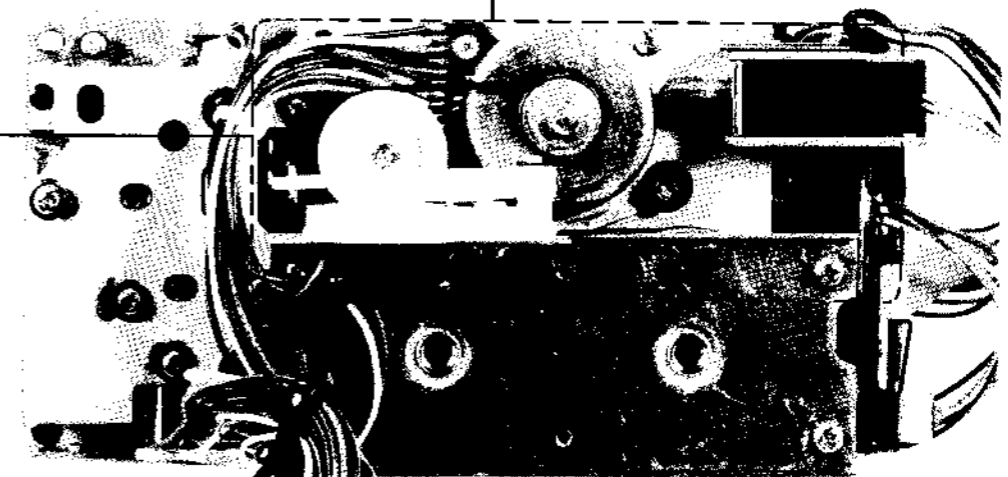
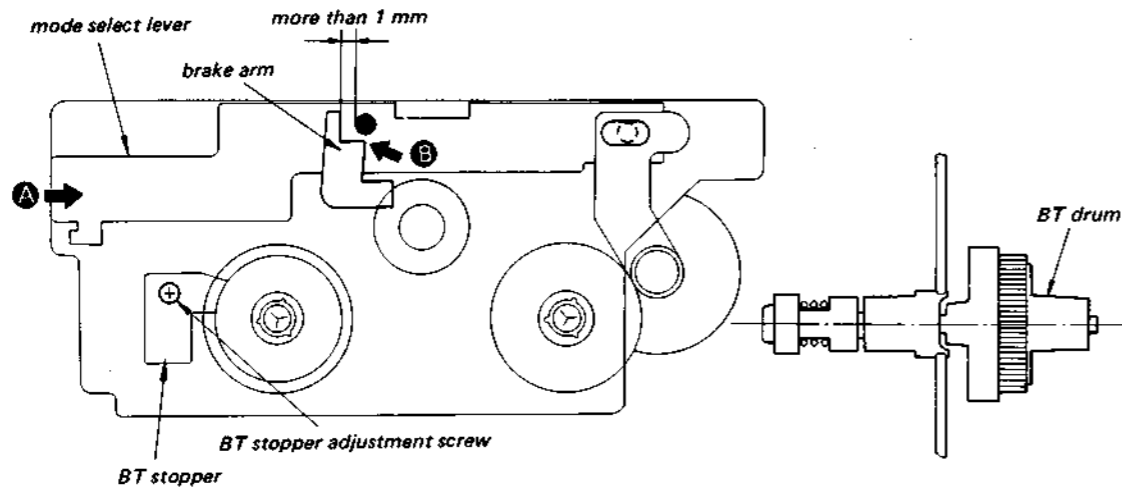
Fast Forward Plunger Position Adjustment

1. Push the fast forward plunger.
2. Turn the reel motor clockwise (fast forward mode). When the idler and the reel spindle come into contact, adjust the position of the fast forward plunger by loosening the screw so that the clearance between the FR arm and the mode selector lever pin is between 0.4 mm and 0.6 mm.
3. Next, turn the reel motor counterclockwise (rewind mode) and adjust to obtain the same result as in step 2.
4. Lock the screw with suitable locking compound.



Check of BT Stopper Position

1. Loosen the BT stopper adjustment screw, push the mode select lever in the direction of arrow A and fix the BT stopper to the reel spindle with the adjustment screw.
2. Move the brake arm in the direction of arrow B, remove the brake from the reel spindle and confirm that the BT drum does not rotate together with the reel spindle.
3. Make sure that the clearance between the mode select lever and the brake arm is more than 1 mm when the mode select lever returns to its original position.



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switch according to the test tape as follows.

Tape	TAPE Switch
CS-15	TYPE I
CS-25	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

- Switches and controls should be set as follows unless otherwise specified.

CALIBRATION MODE OFF
 REC LEVEL (L/R) MED
 CALIBRATION BIAS
 REC LEVEL MED
 DOLBY NR OFF
 TAPE TYPE I
 LINE OUT 0 dB
 MONITOR SOURCE
 TIMER OFF

- Standard Record:

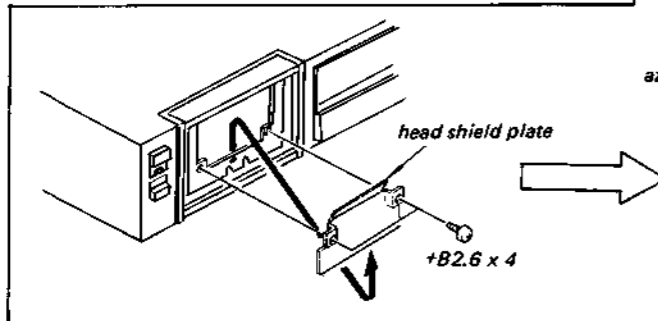
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

Output Terminal	LINE OUT	HEADPHONES
load impedance	47 kΩ	8 Ω
output level	0.44 V (-5 dB)	39 mV (-26 dB)



1. Record/playback Head Azimuth Adjustment

Procedure:

- Loosen the adjustment screw.
- Mode: playback
 test tape P-4-A063 (6.3 kHz, -10 dB)

- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.

- Mode: playback
 test tape P-4-A063 (6.3 kHz, -10 dB)

Adjust the adjustment screw for a good pattern.

2. Record Head Azimuth Adjustment

Record head azimuth adjustment should be made later than playback head azimuth adjustment.

Adjust	VTVM Reading	On the Oscilloscope
record head azimuth adjustment screw	maximum	in-phase
		45°
		90°
		135°
		180°
		good
		wrong

Note: If the maximum peaks for L-CH and R-CH do not coincide, set the screw to the mechanical mid of the two positions for the peaks. At this time, the level should change no more than 1 dB from the maximum peaks.

3. Speed Detecting Head Adjustment

Procedure:

- Install blank cassette tape CS-15 and set the unit in fast-forward or rewind mode.
- Connect an oscilloscope to the test points as follows.
- Adjust RV801 and RV802.

Specification:

Oscilloscope Connection	Adjust	Waveform
TP1 (φ1)	RV801	A = B (both within ±10%)
TP2 (φ2)	RV802	

Adjustment Location:
 - system control board -

4. Capstan Motor Adjustment

Setting:

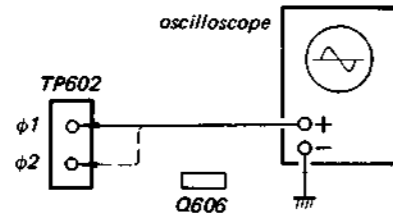
POWER switch: ON

Mode: stop

Procedure:

1. Set S601 to DC side (full-counterclockwise position).
2. Connect an oscilloscope to the test points as follows.

Connection



3. Adjust RV602 to RV605.

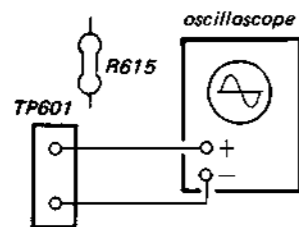
GAIN

Oscilloscope Connection	Adjust	Waveform
TP602 (φ1)	RV602	<p>A = 3.6 - 4.4 V p-p</p>
TP602 (φ2)	RV604	

OFFSET

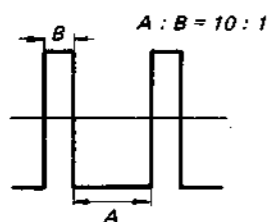
Oscilloscope Connection	Adjust	Waveform
TP601 (φ 1)	RV603	0 V
TP601 (φ 2)	RV605	

4. Set S601 to SERVO side (full-clockwise position).
5. Connect an oscilloscope to the test points as follows.



6. Adjust RV601 to obtain square waveforms as shown below.

Specification:

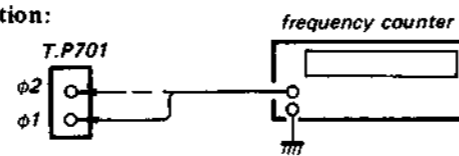


5. Reel Motor Adjustment

Procedure:

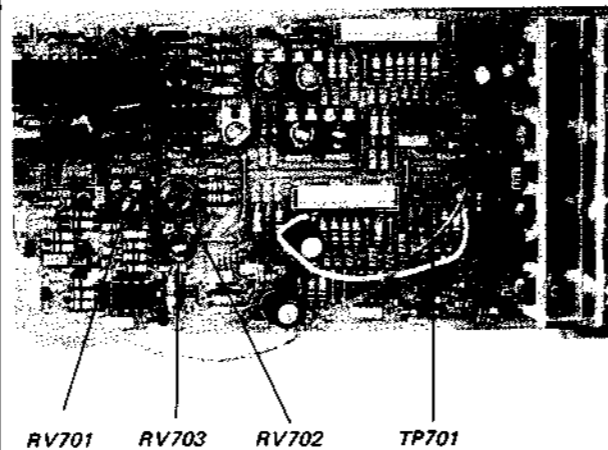
1. Set the unit in playback mode with a tape cassette installed.
2. Adjust RV702 so that the output frequency of TP701 is between 48 and 52 Hz.
3. Remove the cassette and adjust RV703 so that output frequency of TP701 in rewind mode is the same as that in fast forward mode.
4. Adjust RV701 so that output frequency of TP701 is 168-172 Hz.

Connection:



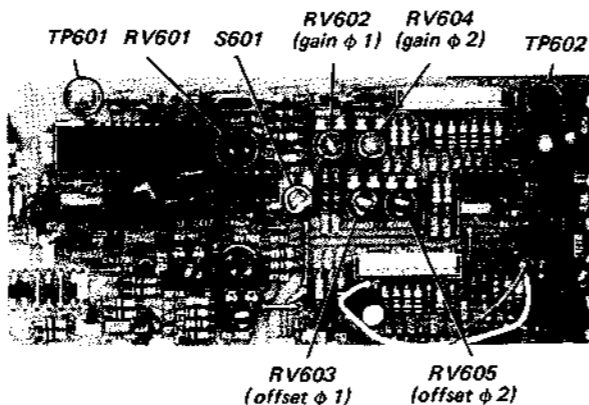
Adjustment Location:

- servo amp board -



Adjustment Location:

- servo amp board -



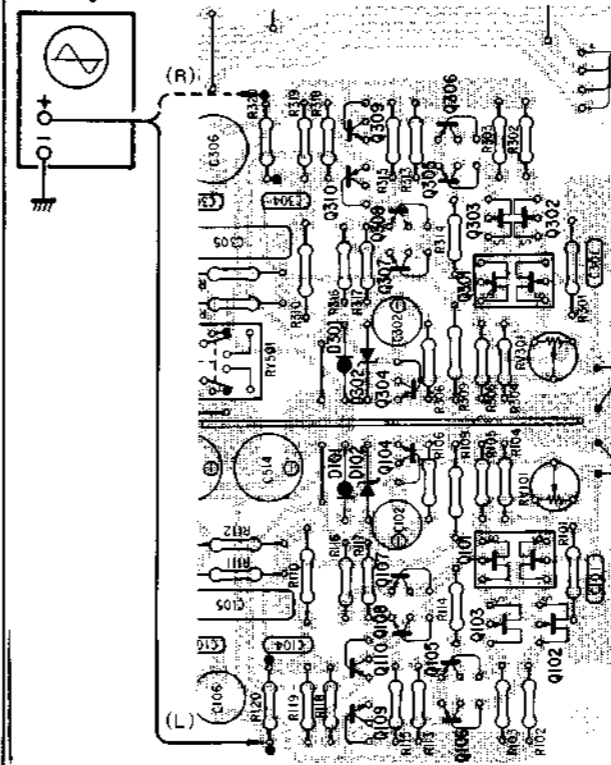
6. Playback Offset Adjustment

Procedure:

Adjust RV101 (L-CH), RV301 (R-CH) so that output level at test points, R120 (L-CH), R320 (R-CH) is 0 V ± 100 mV.

Connection:

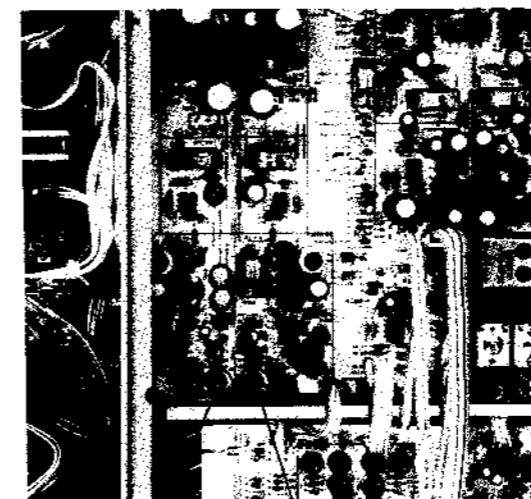
oscilloscope (DC range 100 mV)



Specification:

0 V ± 100 mV

Adjustment Location:



RV101 (L-CH) RV301 (R-CH)

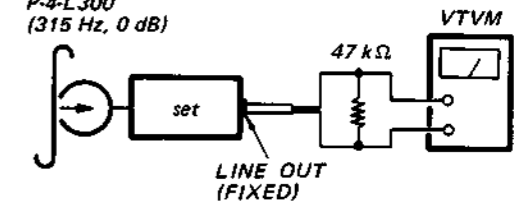
7. Playback Level Adjustment

Setting:

TAPE SELECT switch: TYPE 1

Mode: playback

test tape P-4-L300 (315 Hz, 0 dB)



Adjust RV102 (L-CH) and RV302 (R-CH) to obtain the specified LINE OUT level.

Specification:

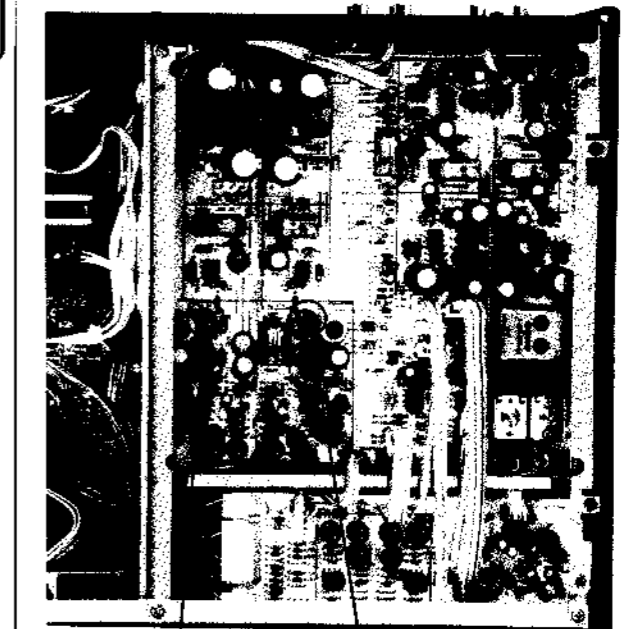
LINE OUT level : 0.41 to 0.46 V (-4.5 to -5.5 dB)

Level difference between channels: less than 0.5 dB.

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

- record/playback board -



RV102 (L-CH) RV302 (R-CH)

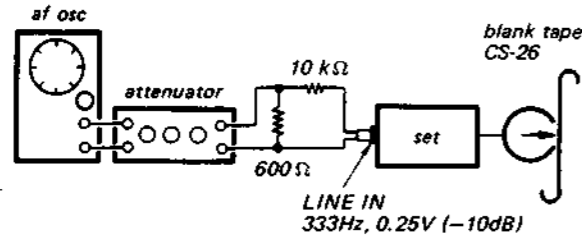
8. Record Level Adjustment

Setting:

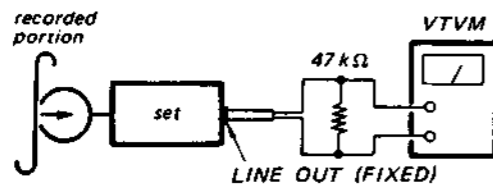
REC LEVEL control: standard record
(See page 21.)

Procedure:

1. Mode: record



2. Mode: playback

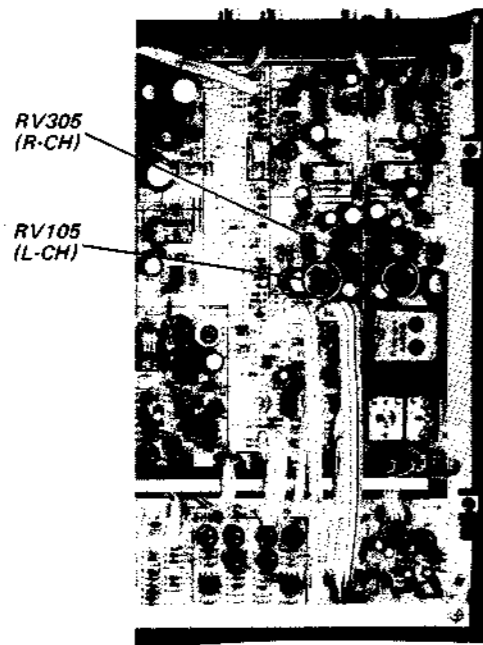


Adjust RV 105 (L-CH) and RV305 (R-CH) to obtain 0.44V (-5dB) LINE OUT level.

Specification:

LINE OUT level: 0.36 - 0.51 V
(-6.5 to 3.5 dB)

Adjustment Location: - record/playback board -



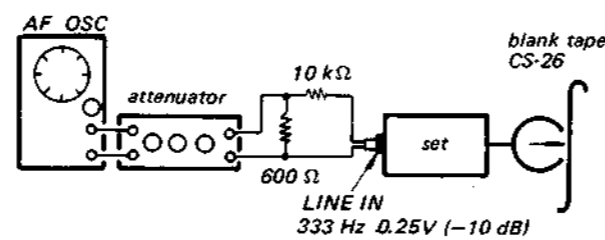
9. Record Bias Adjustment

Setting:

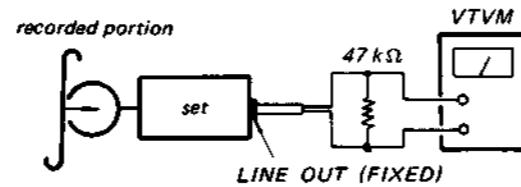
REC LEVEL control: standard record
(See page 21.)

Procedure:

1. Mode: record



2. Mode: playback

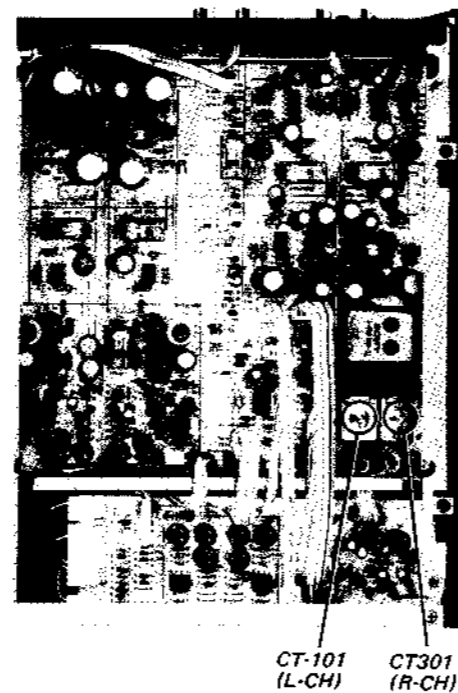


Adjust CT101 (L), CT301 (R) to obtain the same playback level at 333 Hz and 10 kHz.

3. Repeat steps 1 and 2. Be sure to finish adjusting CT101, CT301 by turning them clockwise.

Adjustment Location:

- record/playback board -



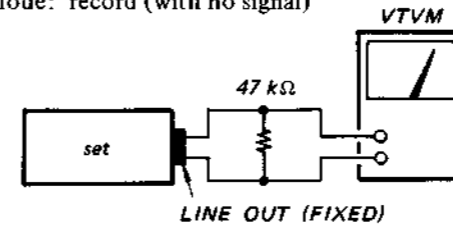
10. Record-Bias Trap and Bias Osc Frequency Adjustments

Setting:

TAPE switch: TYPE IV
MONITOR switch: TAPE

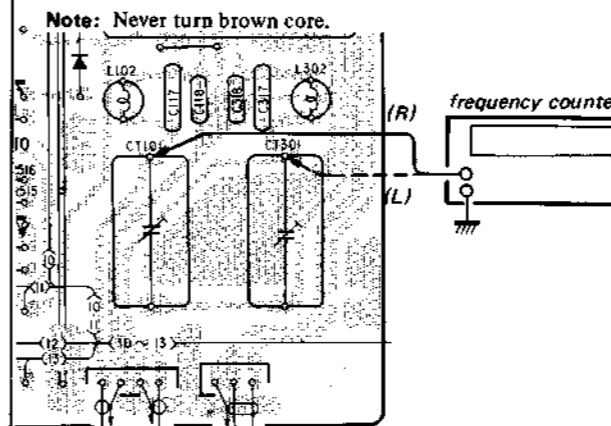
Procedure:

1. Mode: record (with no signal)



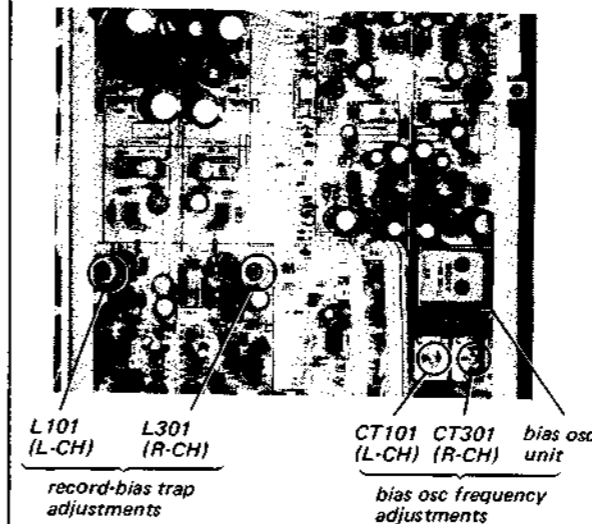
2. Adjust L101 (L-CH) and L301 (R-CH) so that LINE OUT level is less than 3.4 mV (-47 dB).

3. Next, connect the frequency counter with a trimmer capacitor (CT101 or CT301) and adjust bias osc frequency by turning red core of bias osc unit so that the reading is 103-107 kHz.



Adjustment Location:

- record/playback board -



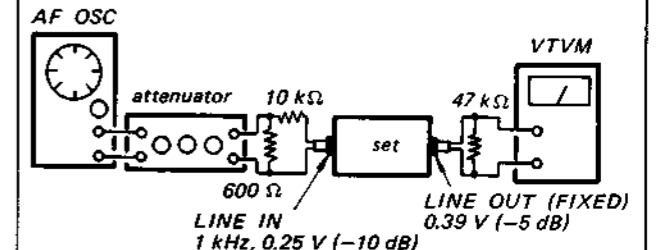
11. Meter Calibration

Setting:

PEAK HOLD reset switch: MANUAL
REC LEVEL control: Standard record
(See page 21.)

Procedure:

1. Mode: record



2. Set RV108, 308 to MIN and adjust RV109, 309 so that Low segment lights up dimly as shown in Fig. 1.

3. Low segment should go out when the input level is set to -10.3 dB.

4. Adjust RV108, 308 so that LOW segment lights up dimly when the input level is -10.3 dB.

5. LOW segment should light up completely when the input level is set to -10 dB.

6. Adjust the input level so that LINE OUT level is +9 dB.

7. Lower the input to 0.3 dB so that LINE OUT output is +8.7 dB. While pushing PEAK HOLD MANUAL switch, adjust RV110, 310 so that the segment lights up dimly as in Fig. 2.

8. Adjust the input level so that LINE OUT output is +9 dB. At this time, the segment in Fig. 2 should light up completely.

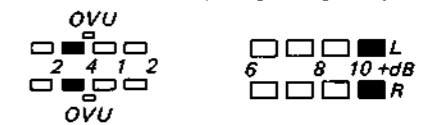
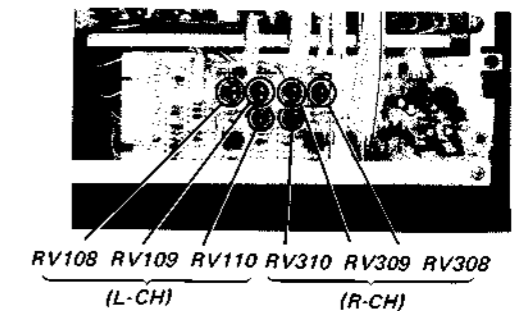


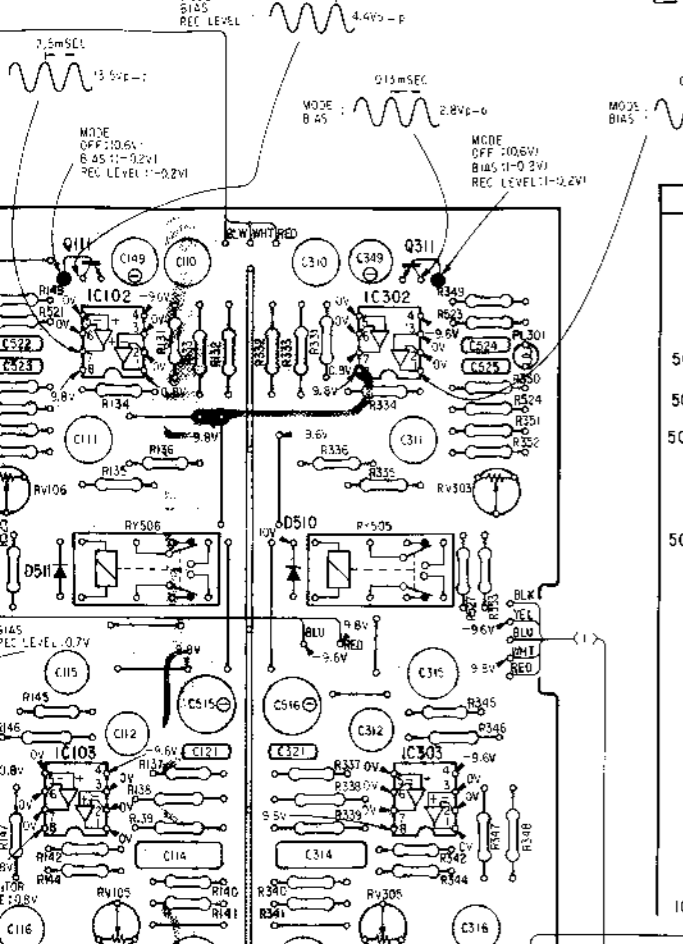
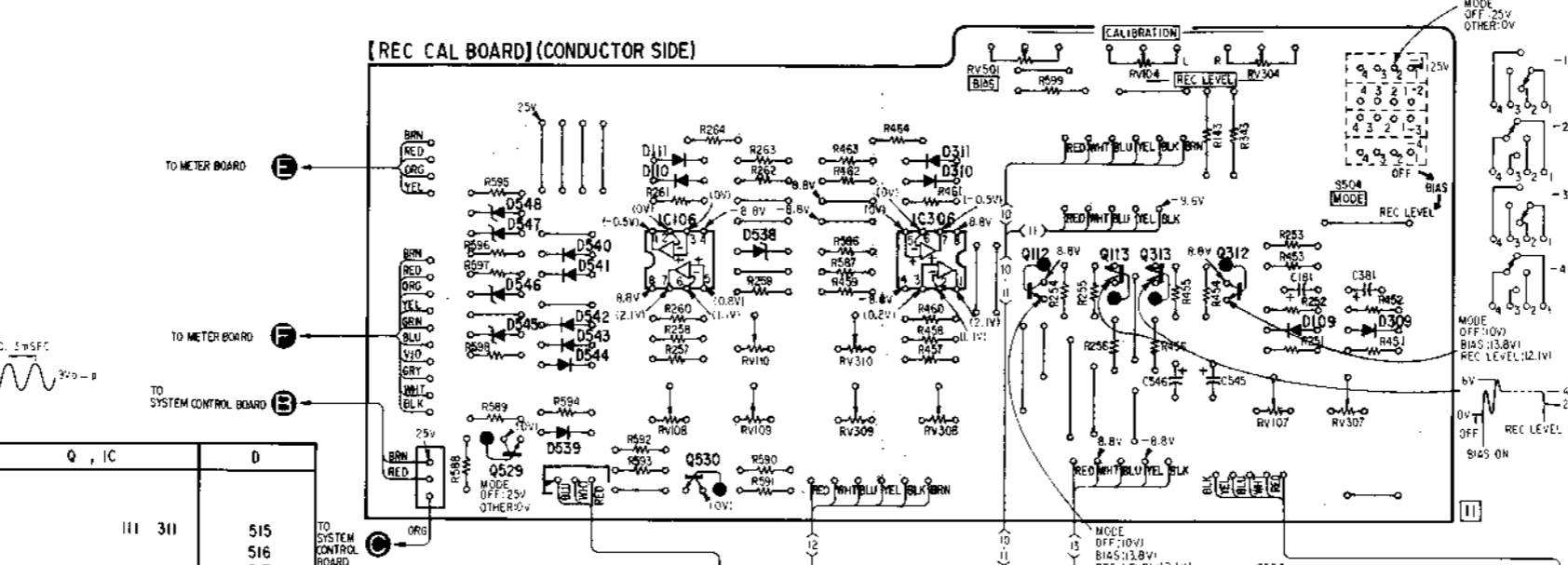
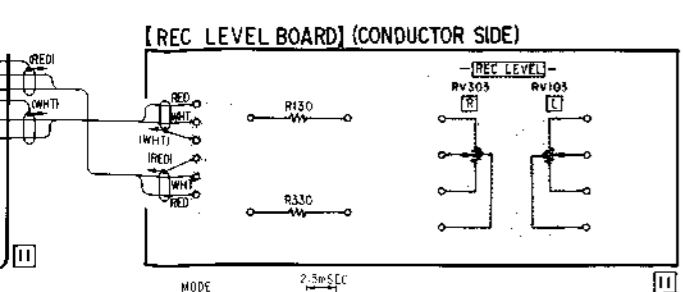
Fig. 1

Fig. 2

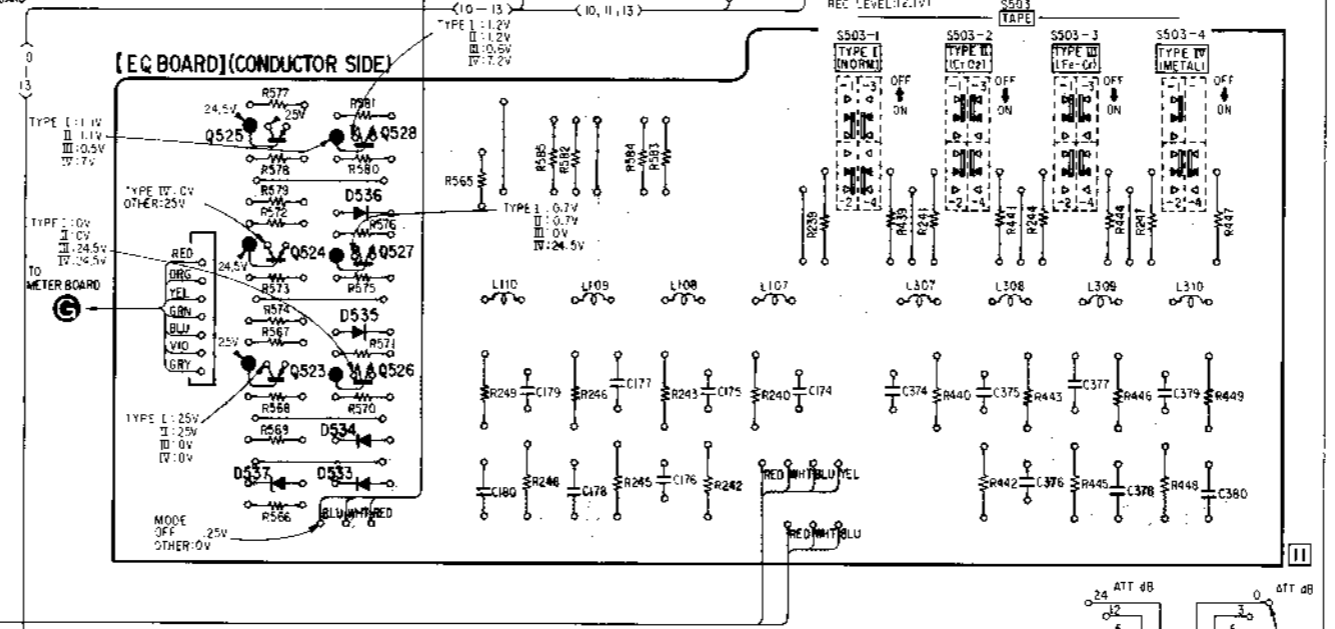
Adjustment Location:

- REC CAL board -

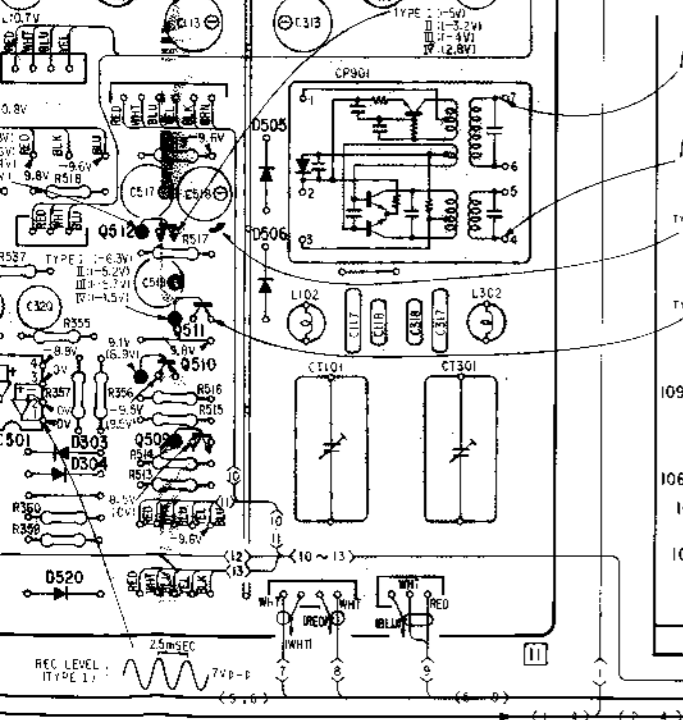




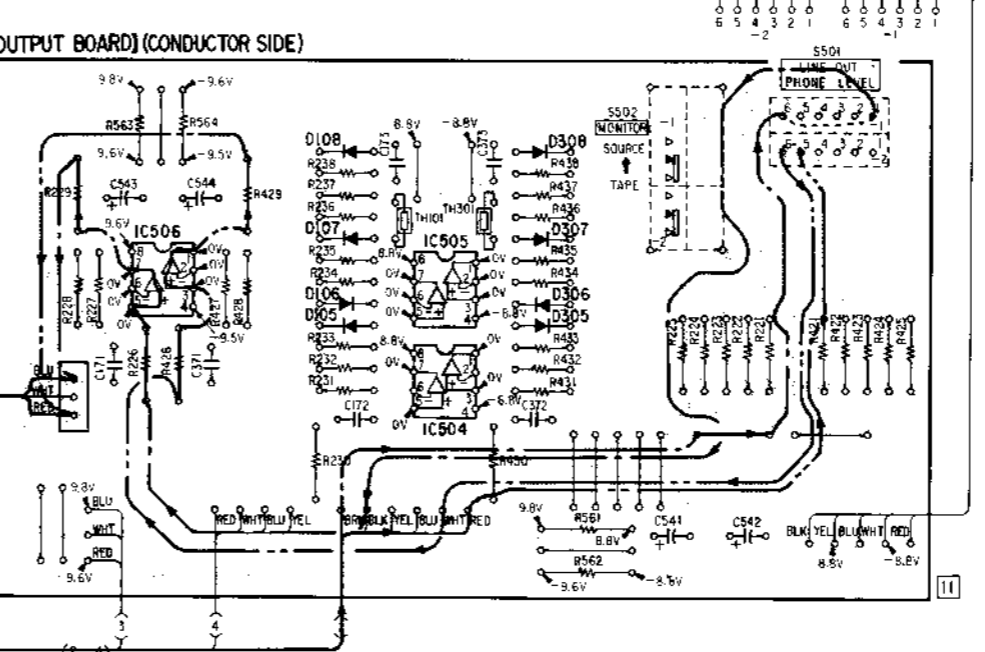
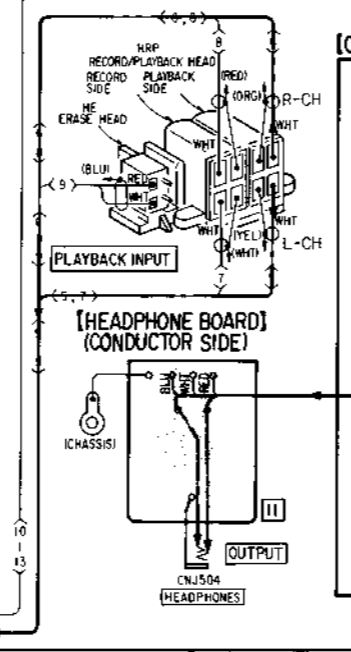
Q, IC	D
III 311	515 516 517
501	501, 502, 504, 503
502, 506	505
503	507
504	512
508	511, 510
517	516
518	519 508, 509
IC103 IC303	518
520	
519	
IC101 IC301	



Q, IC	D
III 311	511 310
548	541
547	540, 538
546	541
545	542 509 309
	543
	544
529	539
530	
525	528
524	527
523	526
	536
	535
	534
	537 533



Q, IC	D
513	513
514	514
515	515
507	507
505	505
512	512
531	506
511	521 549
510	101 301
310, 309	102 302
IC501	103 303
104, 304	104 304
307, 308	
509	
305, 306	
106, 105	
303	
101	301
302	302
	520



Q, IC	D
108	308
107	307
IC506	106 306
IC505	105 305
IC504	

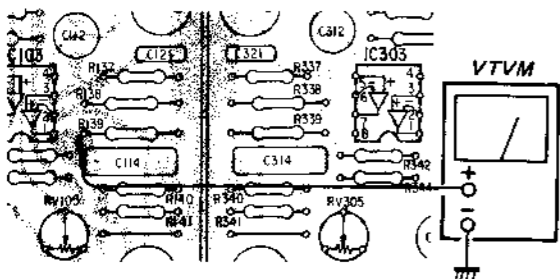
12. REC LEVEL CAL Adjustment

Setting:

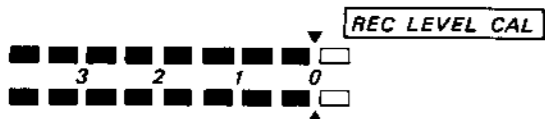
CALIBRATION MODE switch: REC LEVEL

Procedure:

- Adjust RV106 so that the level at the check point (R142), is 77 mV (-20 dB).



- Install blank tape (CS-26) and set the unit to RECORD MONITORING mode by changing the MONITOR switch to TAPE position. Adjust RV107 (L-CH), 307 (R-CH) so that the segment over 0 dB indication goes out.

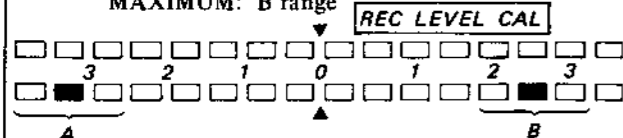


- Be sure that indication of meter varies as follows when turning REC LEVEL CAL control from mechanical center to MIN or MAX.

The right segment should be lit up in the following range.

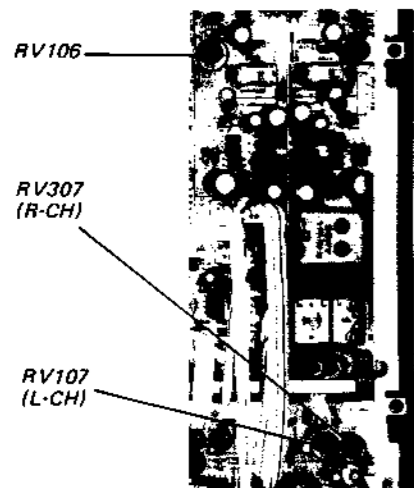
MINIMUM : A range

MAXIMUM: B range



Adjustment Location:

- record/playback board, REC CAL board -



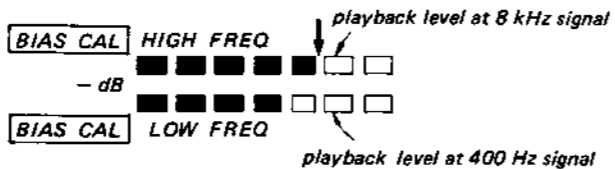
13. Bias Cal Adjustment

Setting:

CALIBRATION MODE switch: BIAS

Procedure:

- MONITOR switch: TAPE
- Install the blank tape (CS-26) and adjust RV306 so that the HIGH FREQ element one above the maximum LOW FREQ element lights up completely. (The next one up may blink).



- Make sure that elements of HIGH FREQUENCY (upper side) vary when turning BIAS CAL control from the mechanical center to MIN and to MAX.

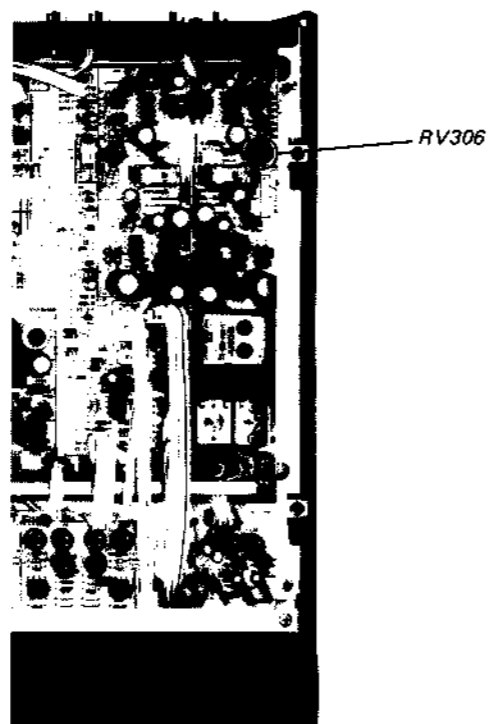
Relative to level at BIAS CAL control center.

MIN : +9 element

MAX: -9 element

Adjustment Location:

- record/playback board -

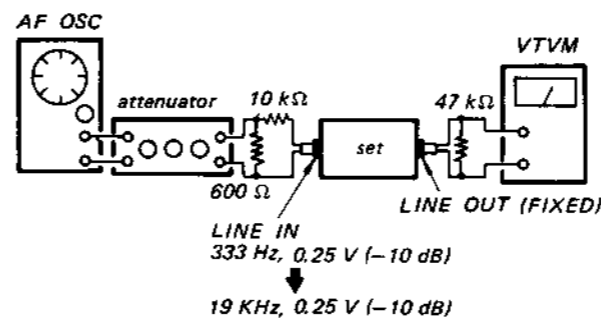


14. MPX Filter Adjustment

1. Mode: record

MPX filter switch: ON

- Feed a signal of 333 Hz, 0.25 V (-10 dB) into the LINE IN jack.
- Adjust the REC LEVEL control for -5 dB (0.44 V) on the VTVM.
- Feed a signal of 19 kHz, 0.25 V (-10 dB) into the LINE IN jack.
- Adjust L105 (L-CH) and L305 (R-CH) for minimum reading on VTVM.

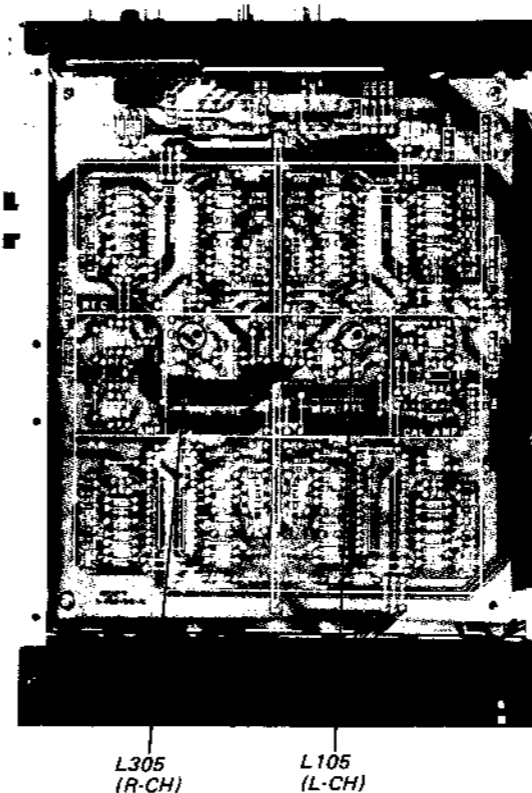


Specification:

Less than 14 mV (-35 dB)

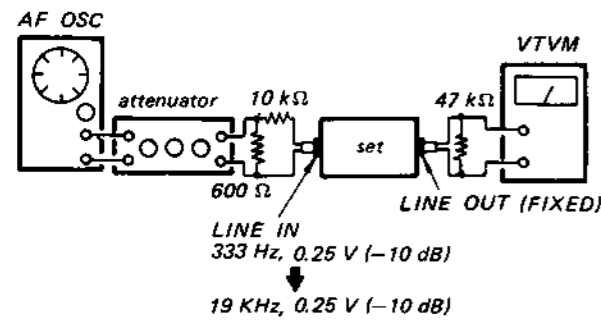
Adjustment Locations:

- record/playback board -



14. MPX Filter Adjustment

1. Mode: record
MPX filter switch: ON
2. Feed a signal of 333 Hz, 0.25 V (-10 dB) into the LINE IN jack.
3. Adjust the REC LEVEL control for -5 dB (0.44 V) on the VTVM.
4. Feed a signal of 19 kHz, 0.25 V (-10 dB) into the LINE IN jack.
5. Adjust L105 (L-CH) and L305 (R-CH) for minimum reading on VTVM.

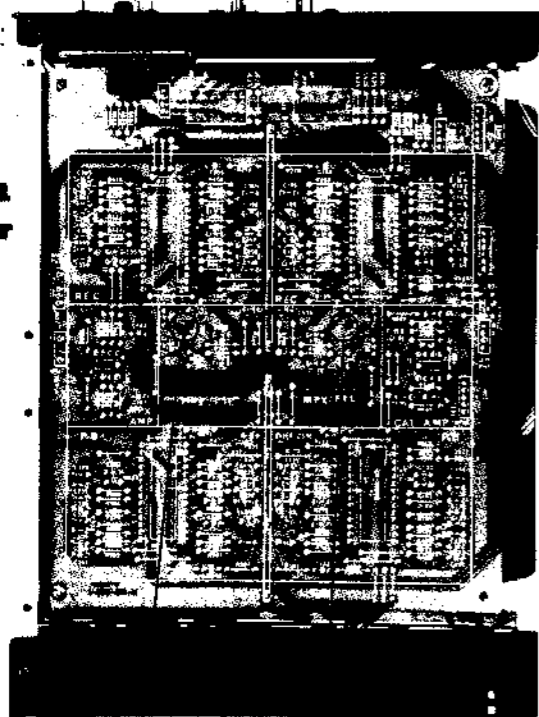


Specification:

Less than 14 mV (-35 dB)

Adjustment Locations:

- record/playback board -

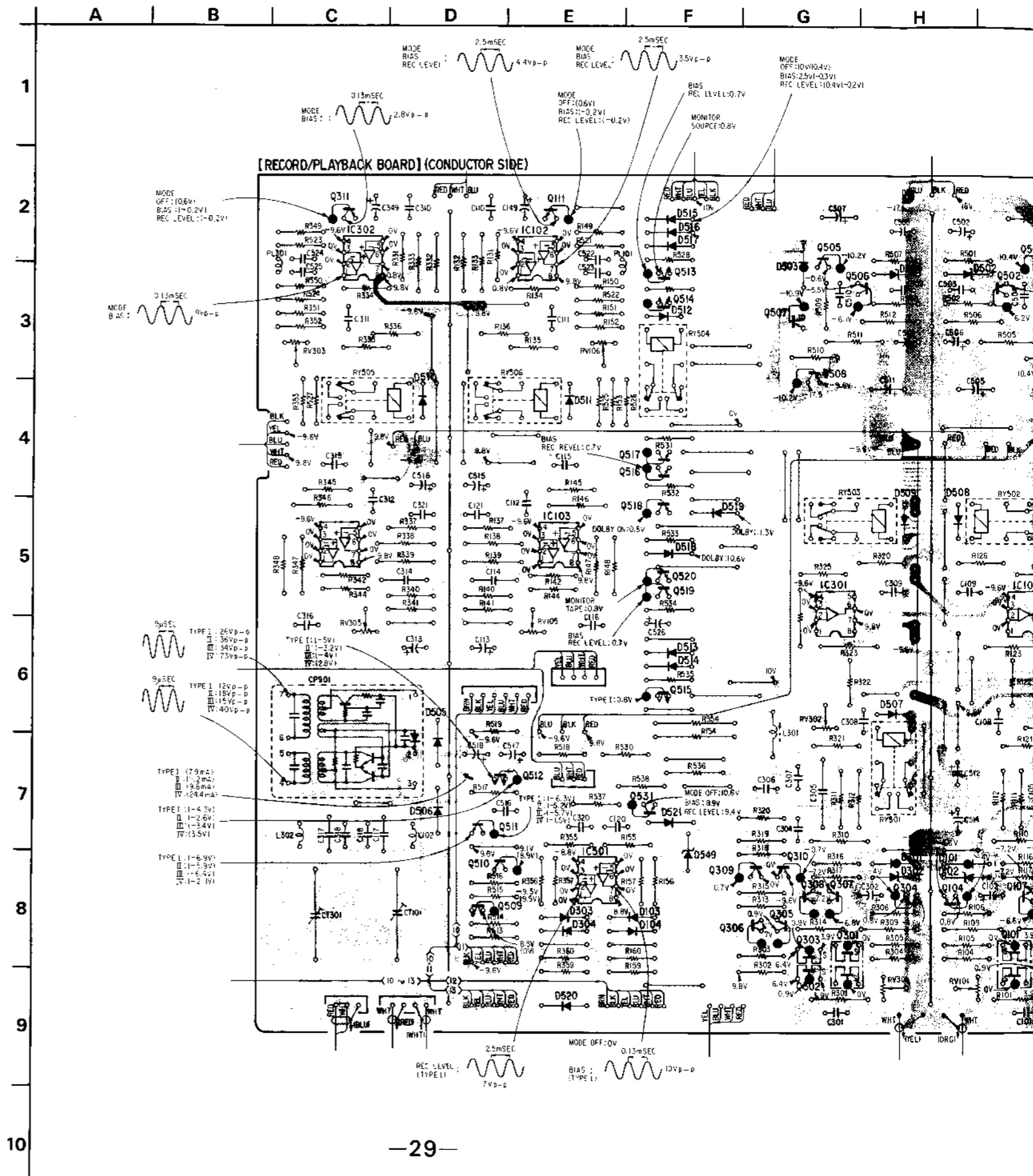


L305 (R-CH)

L105 (L-CH)

41. MOUNTING DIAGRAM
- Record/Playback Board -
- Conductor Side -

SECTION 4
DIAGRAMS

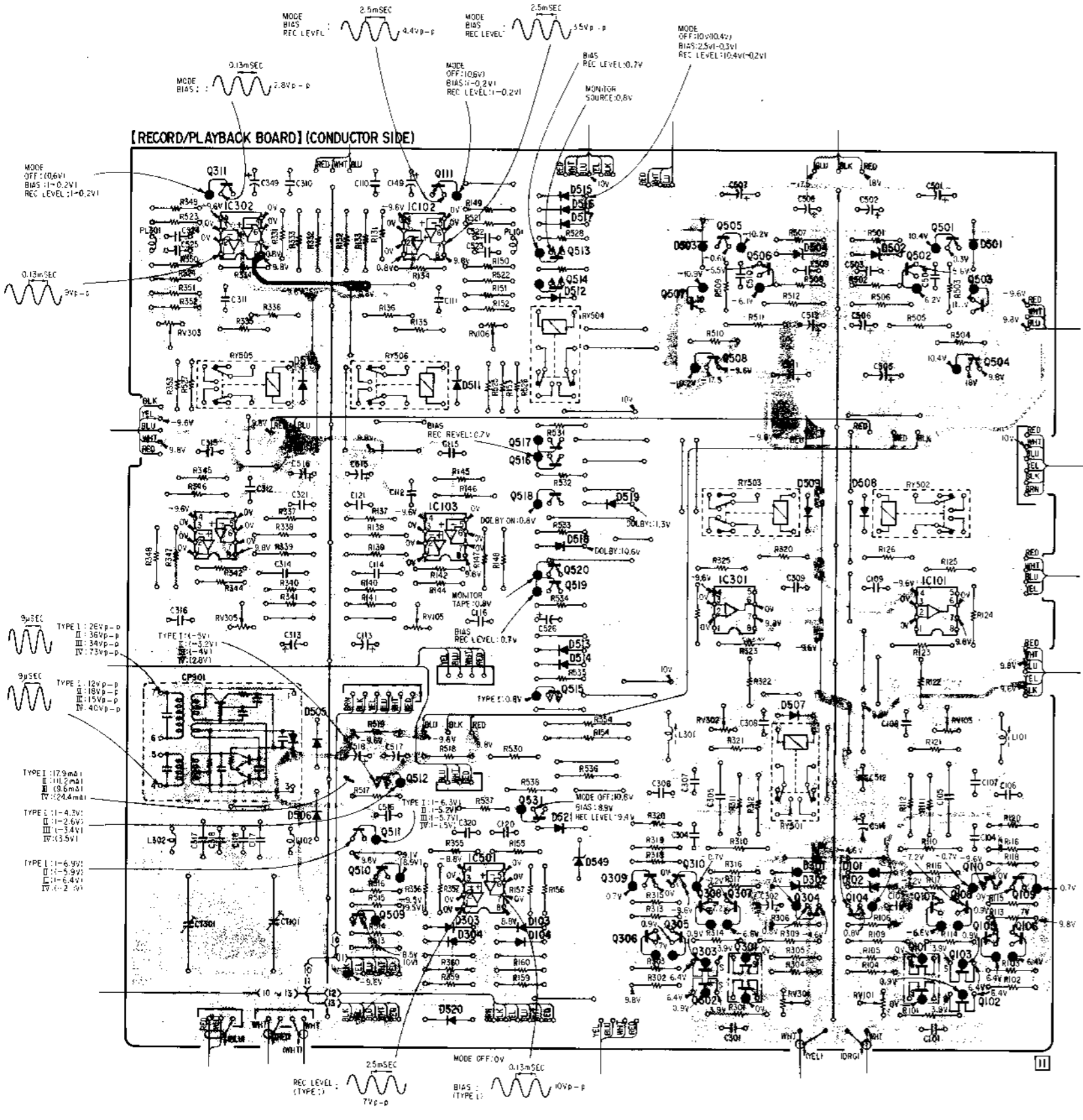


ING DIAGRAM
Playback Board -
ctor Side -

SECTION 4
DIAGRAMS

B C D E F G H I J K L M N O

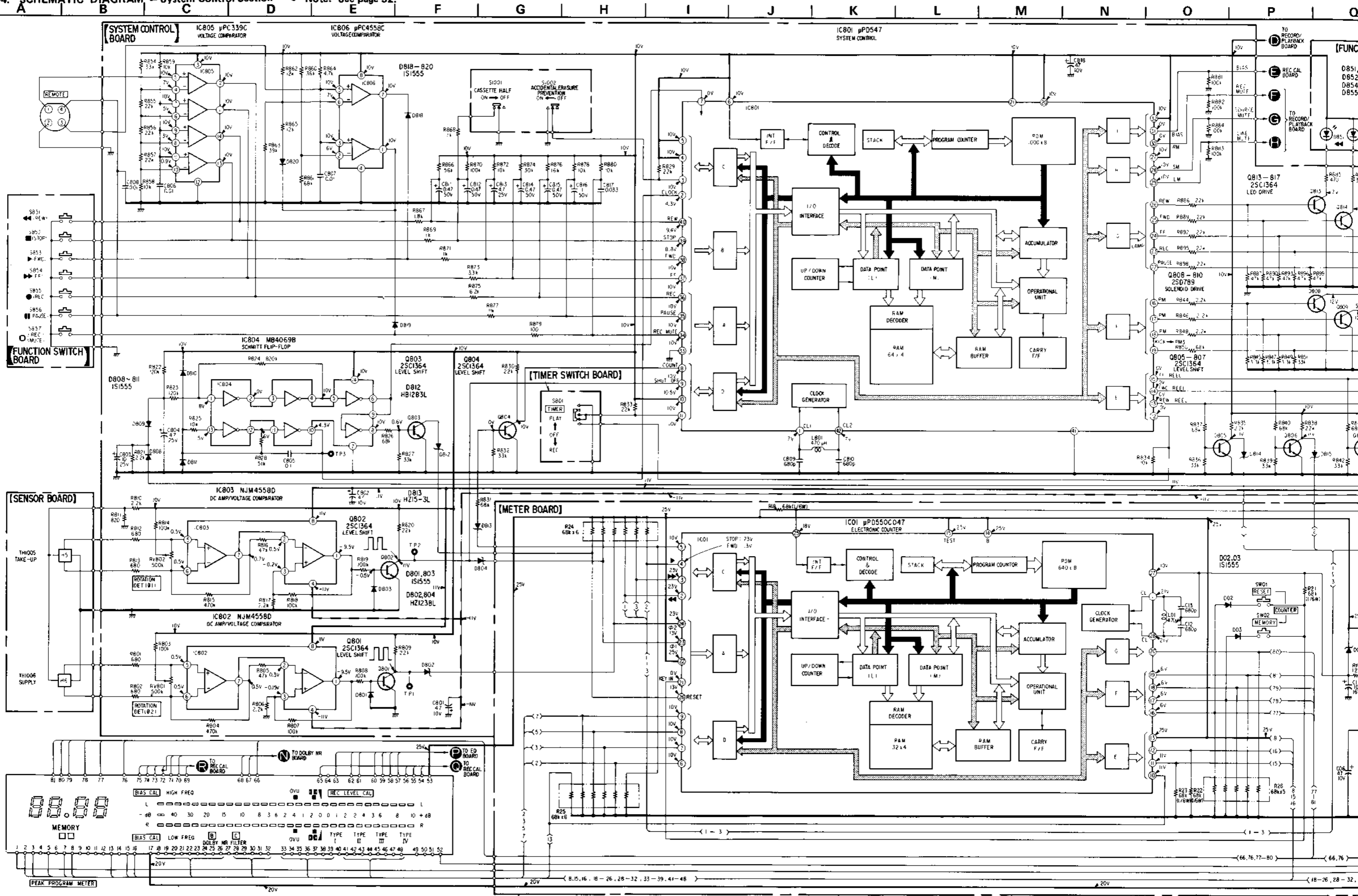
[RECORD/PLAYBACK BOARD] (CONDUCTOR SIDE)



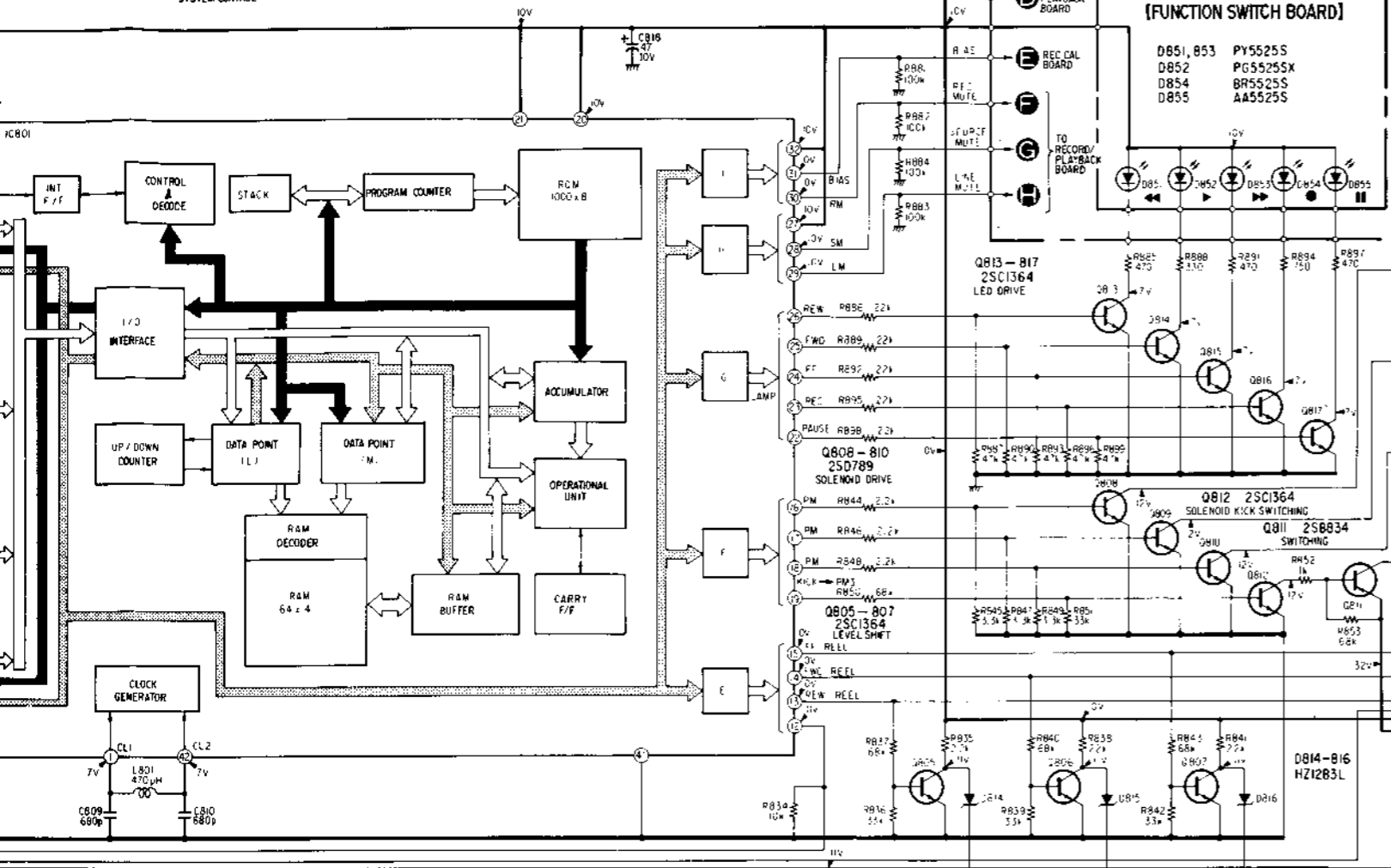
Q, IC	D
311 III	515 516 517
IC302 IC102	501 503 504 502 501
513	505 506 502
514	507 503 512
	508 504
	510 511
517 516	
518	519 509, 508
IC303 IC103	518
520 519	
IC301 IC101	513 514
515	507
	505
512	
531	506 521
511	549
510 309, 310 IC501 304, 104	110, 109 302 102
509 308, 307	107, 801
306, 305	105, 106 303 103 304 104
303	
302 301	101 102
	520
Q, IC	D

- Note:
- Color code of sleeving over the end of the jacket.
-
- parts extracted from the component side.
 - parts extracted from the conductor side.
 - indicates side identified with part number.
 - B+ pattern
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
no mark: PLAYBACK
(): RECROD

4-4. SCHEMATIC DIAGRAM - System Control Section - Note: See page 52.

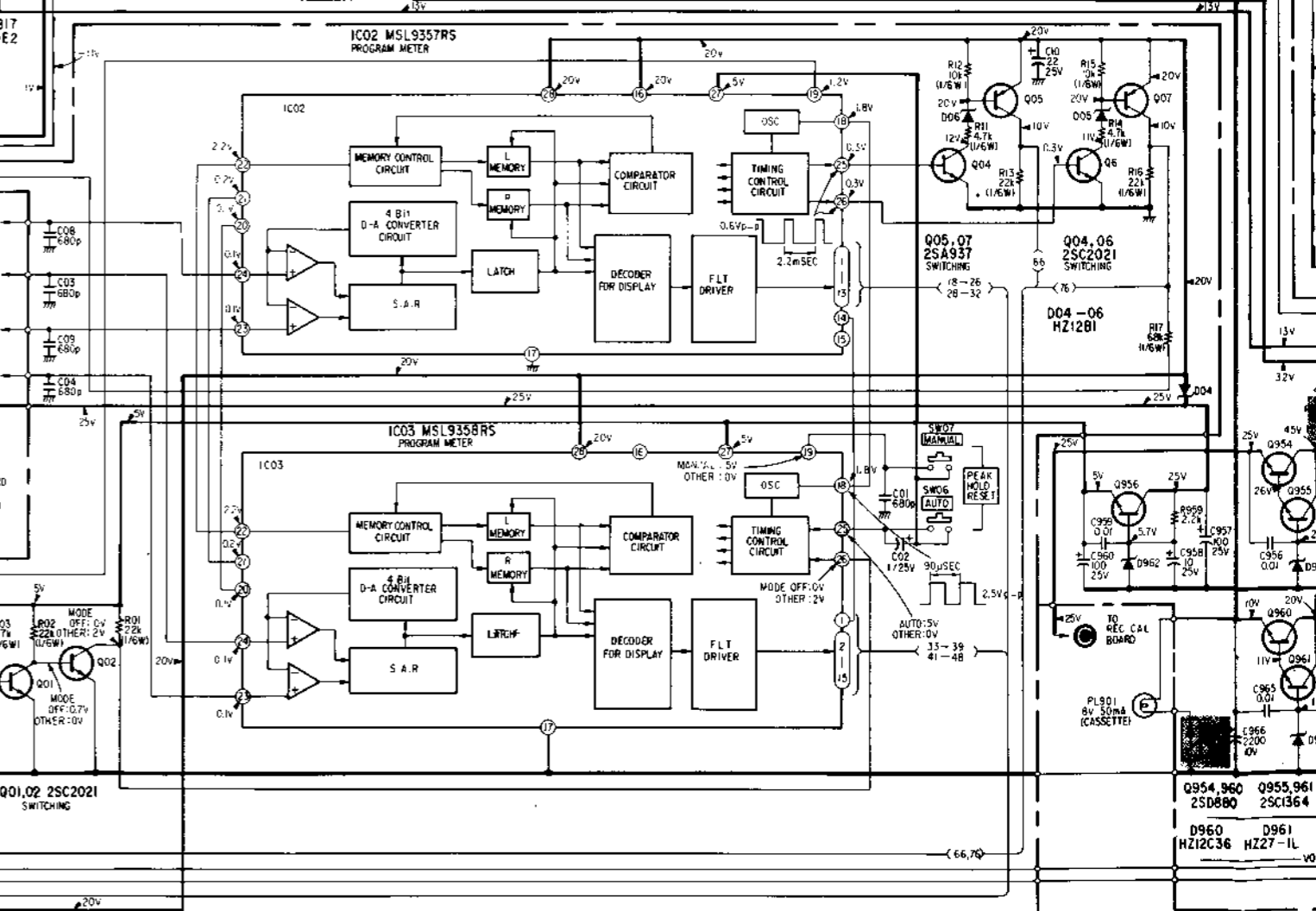
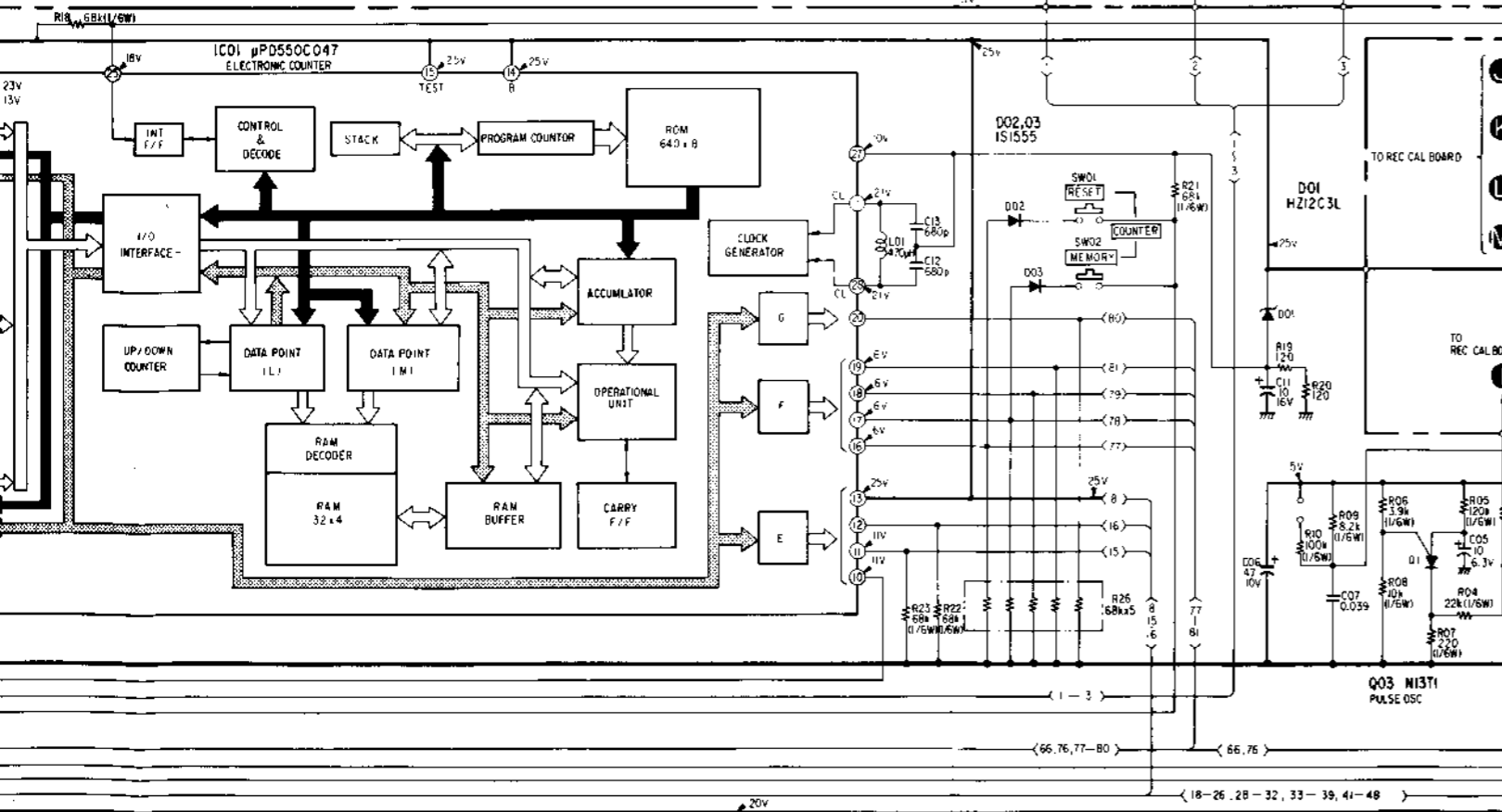
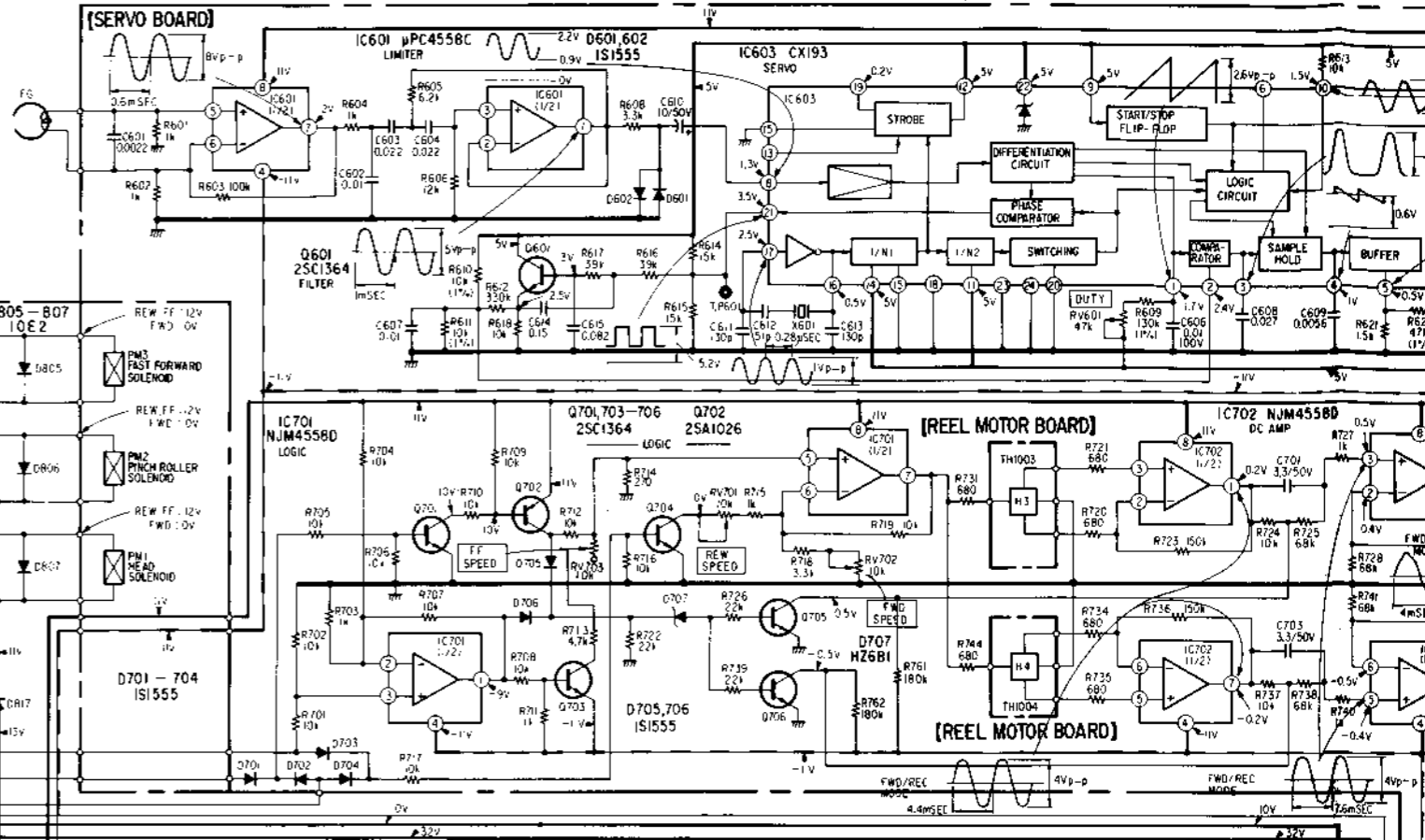


ICB01 uPD547 SYSTEM CONTROL



[FUNCTION SWITCH BOARD]

D851, 853	PY5525S
D852	PG55255X
D854	BR55255S
D855	AA55255S



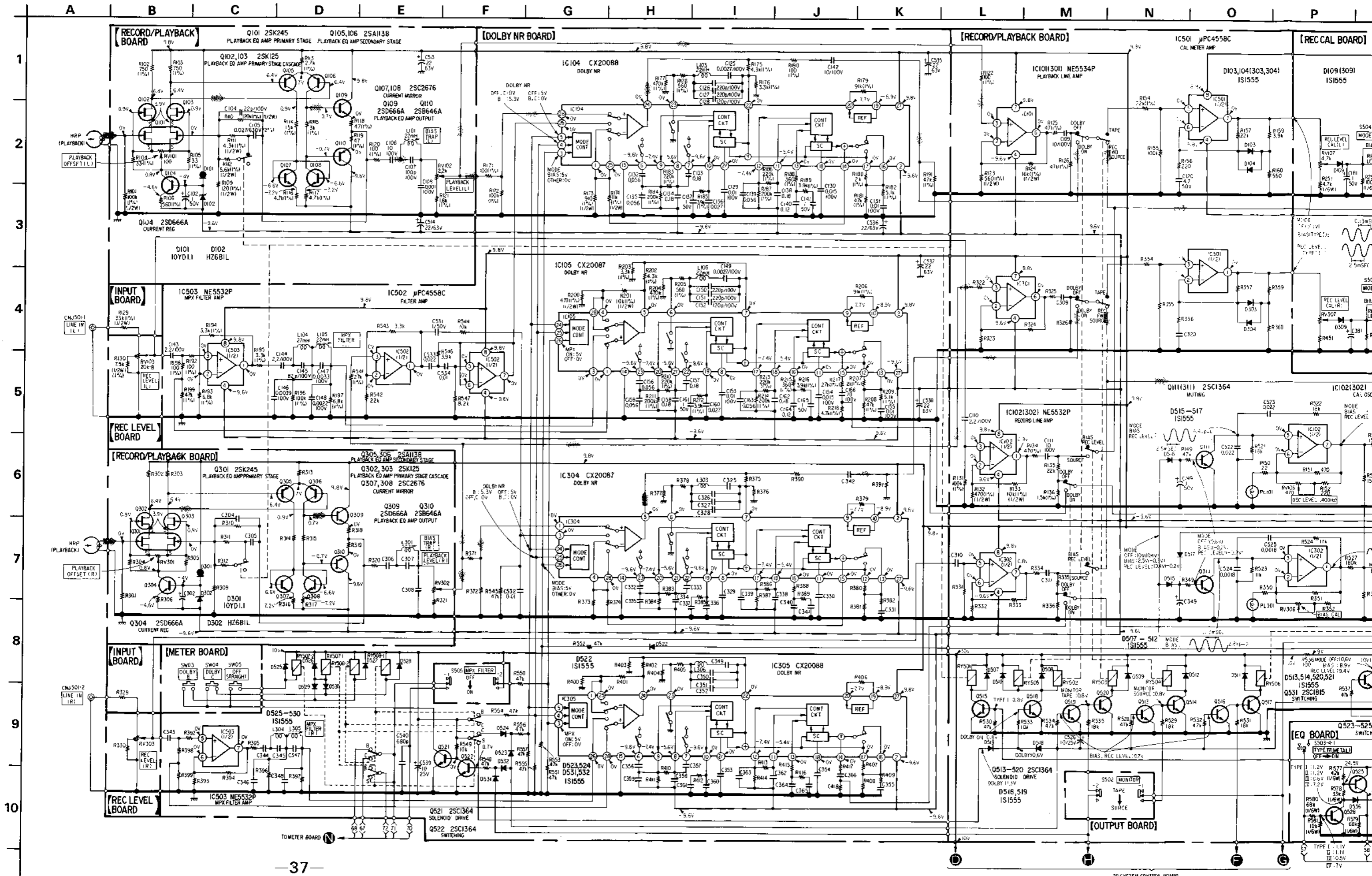
Q954, 960
25D880

Q955, 961
25C1364

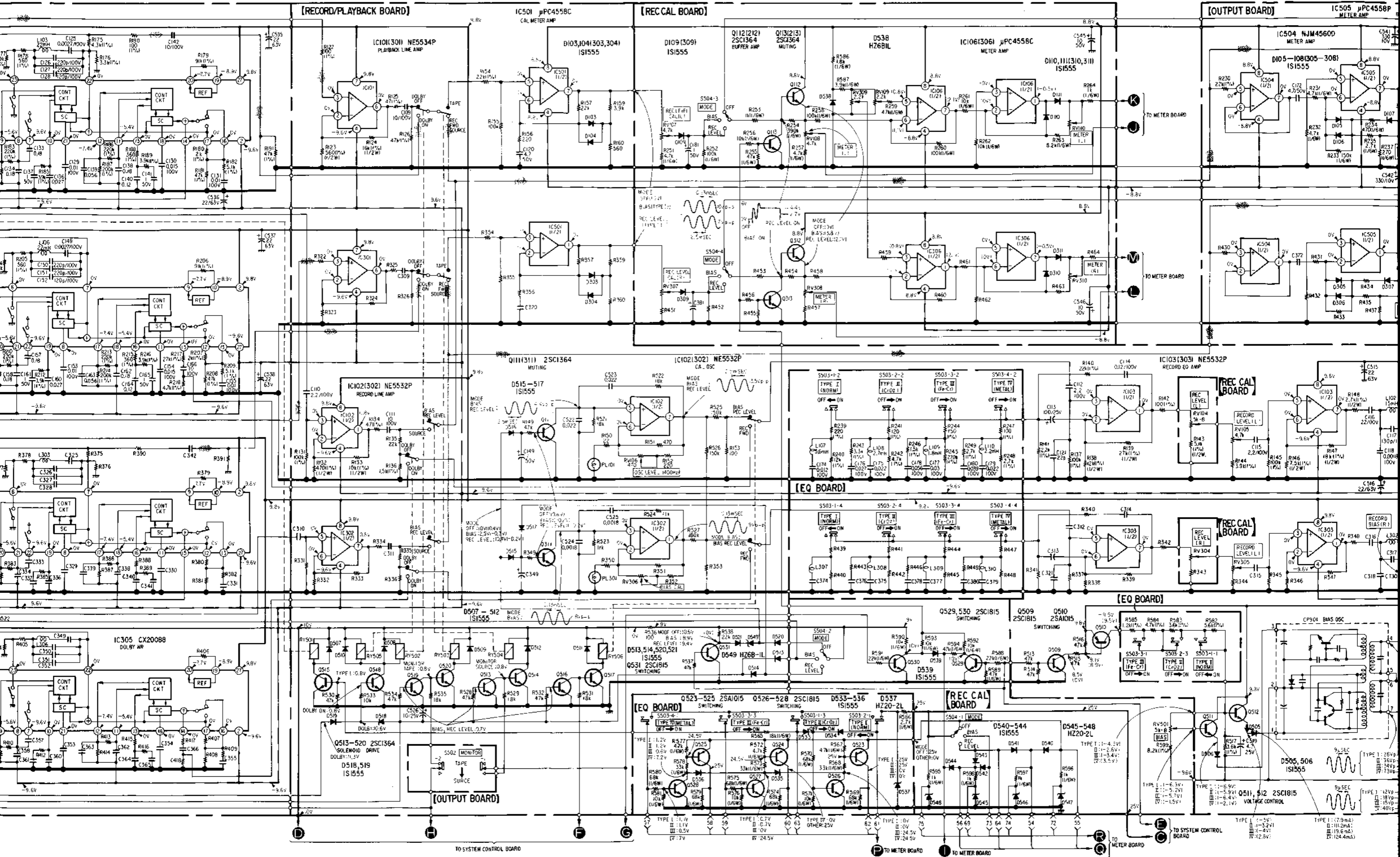
D960
HZ12C36

D961
HZ27-IL

4-3. SCHEMATIC DIAGRAM - Audio Amp Section -



TO SYSTEM CONTROL BOARD



[RECORD/PLAYBACK BOARD]

[RECCAL BOARD]

[OUTPUT BOARD]

[RECORD/PLAYBACK BOARD]

[RECCAL BOARD]

[RECCAL BOARD]

[EQ BOARD]

[EQ BOARD]

[EQ BOARD]

[RECCAL BOARD]

[OUTPUT BOARD]

TO SYSTEM CONTROL BOARD

TO METER BOARD

TO METER BOARD

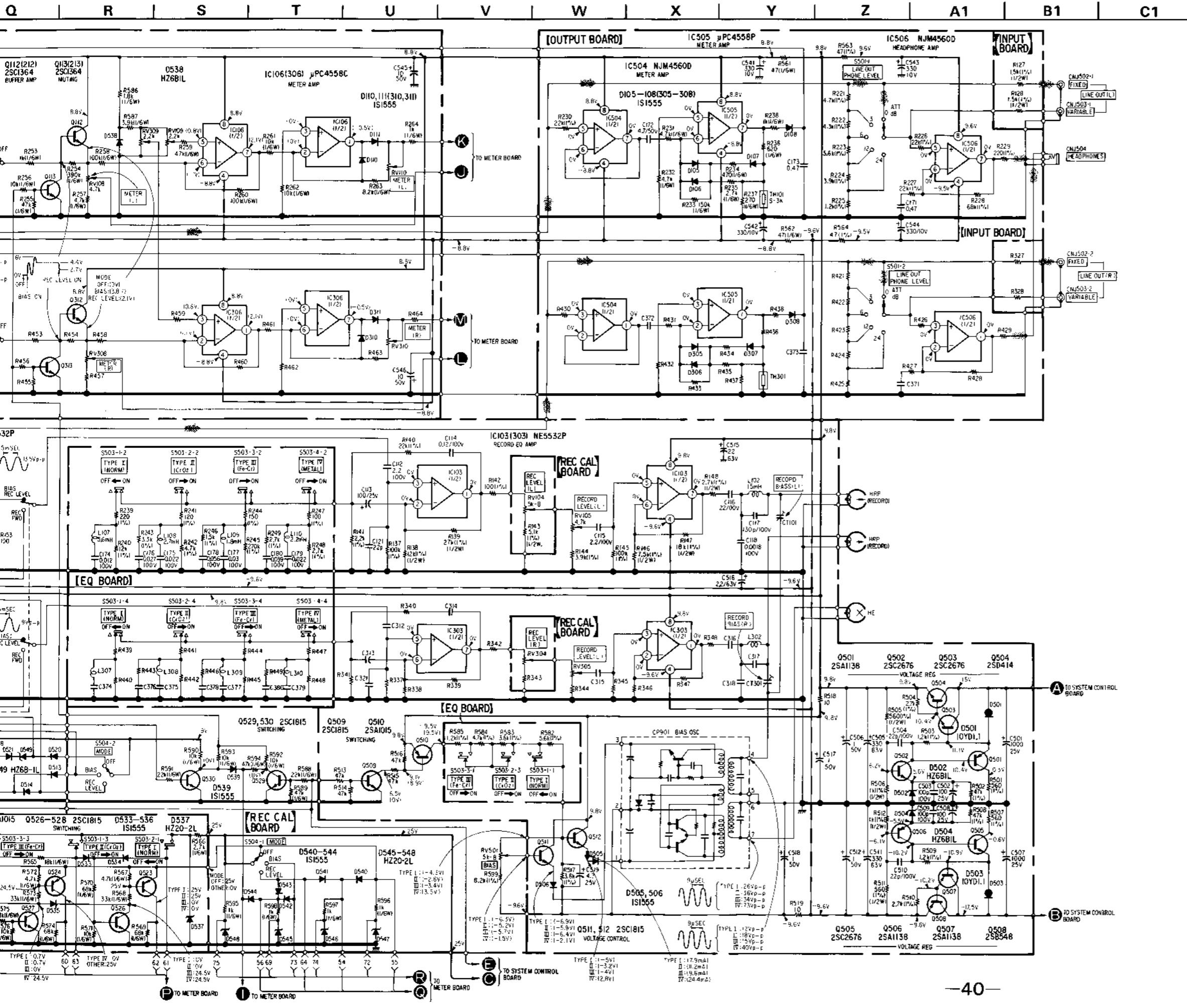
TO METER BOARD

TO SYSTEM CONTROL BOARD

TO METER BOARD

TO METER BOARD

TO METER BOARD



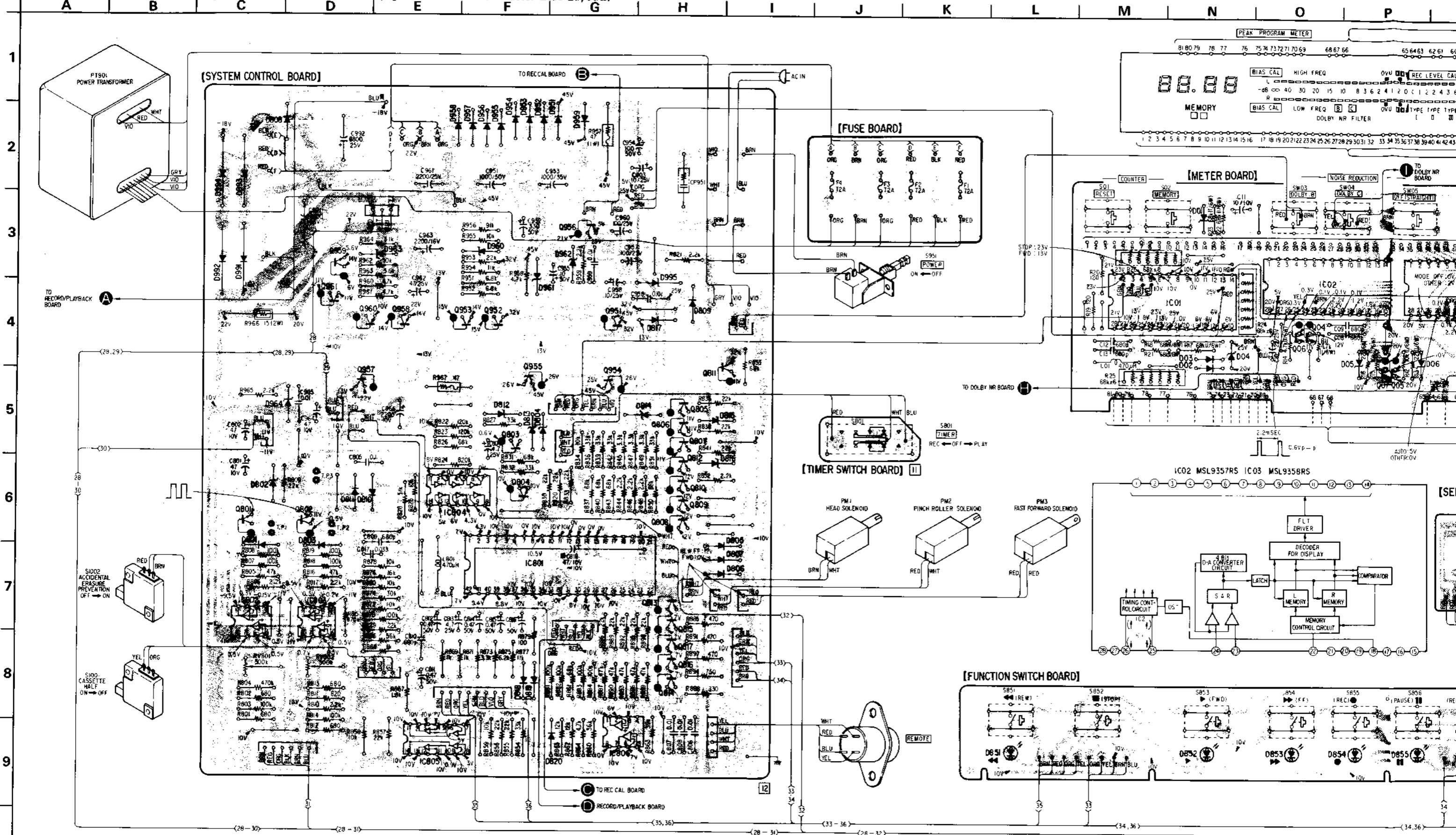
1
2
3
4
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6
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10
11

- Note:**
- Components for right channel have same values as for left channel. Reference numbers are coded from
 - All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\ \Omega$, $\text{M}\Omega : 1000\ \text{k}\Omega$
 - \square : nonflammable resistor.
 - \square : fusible resistor.
 - Δ : internal component.
 - \rightarrow : signal path
 - \square : panel designation.
 - \square : adjustment for repair.
 - --- : B+ bus.
 - --- : B- bus.
 - Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
 - no mark : PLAYBACK
 - () : RECORD
 - AC voltage readings in the bias oscillator with a VTVM.
 - Switches

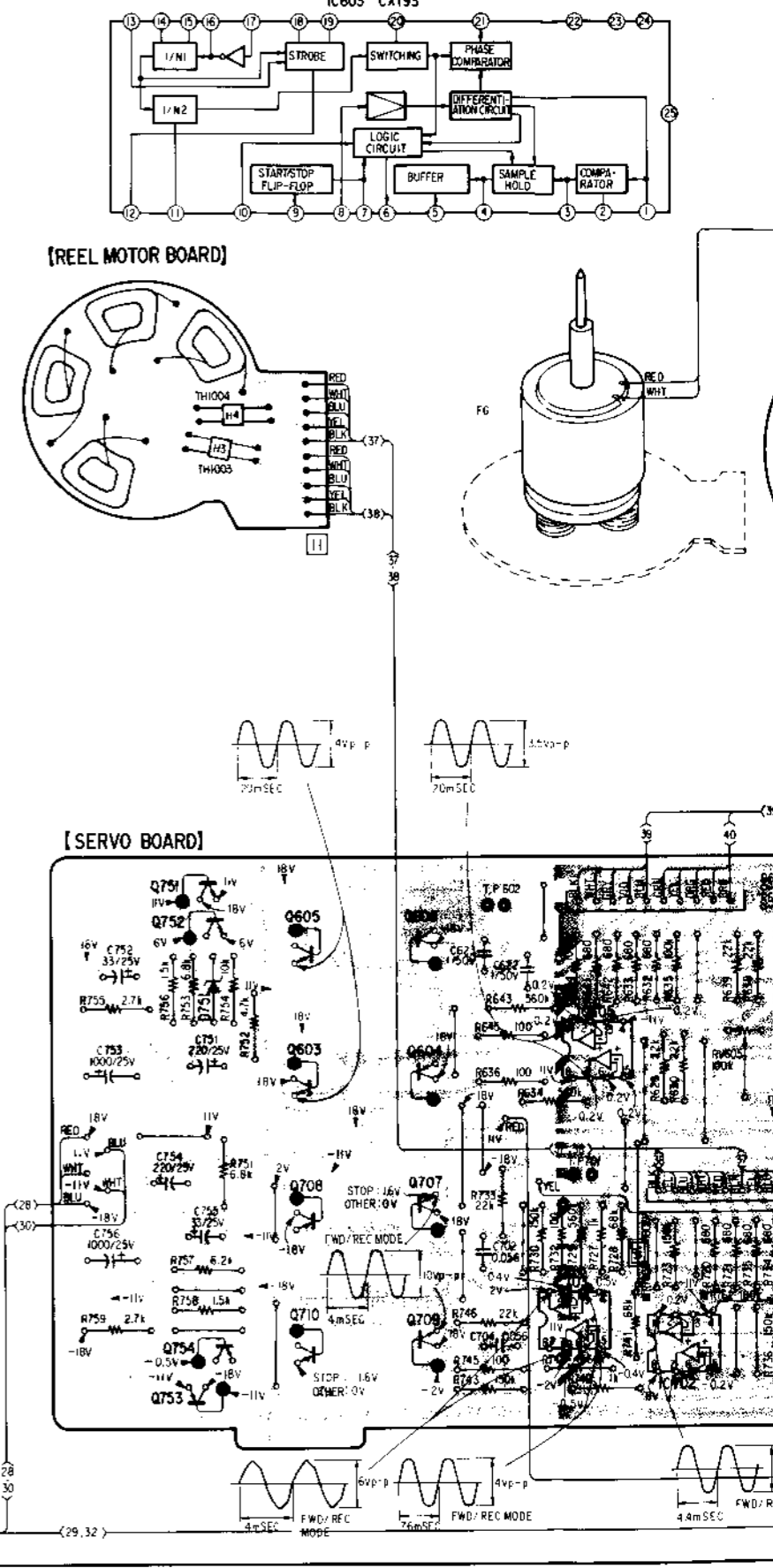
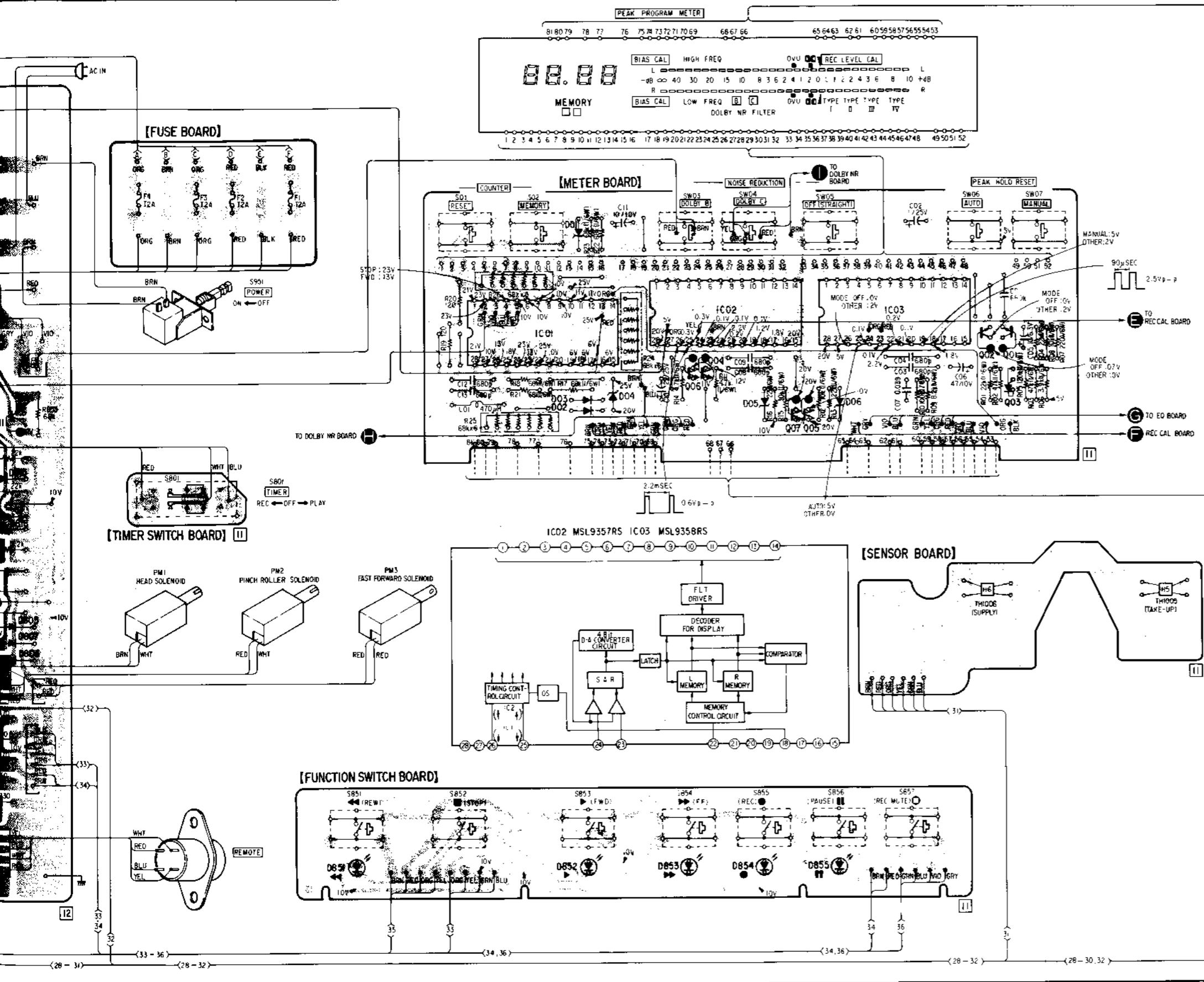
Ref. No.	Switch	Position
S501	LINE OUT PHONE LEVEL	0 dB
S502	MONITOR	TAPE
S503	TAPE	TAPE 1 (FORM)
S504	MODE	OFF
S505	MPX FILTER	OFF

Note: Voltages are measured with a VOM (50k Ω /V).

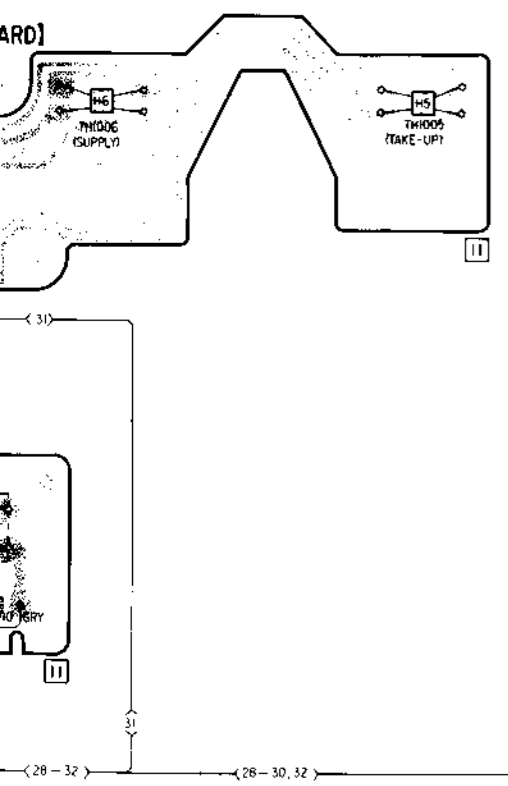
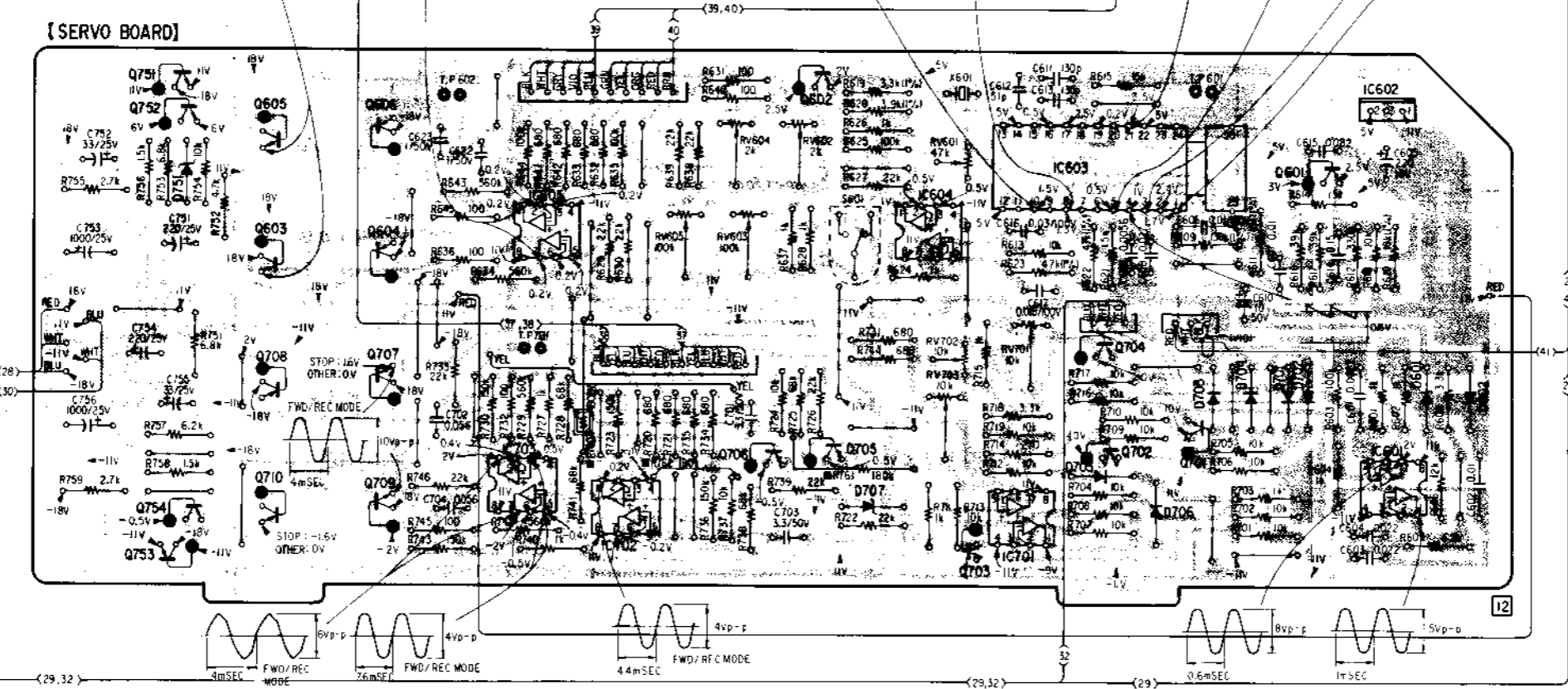
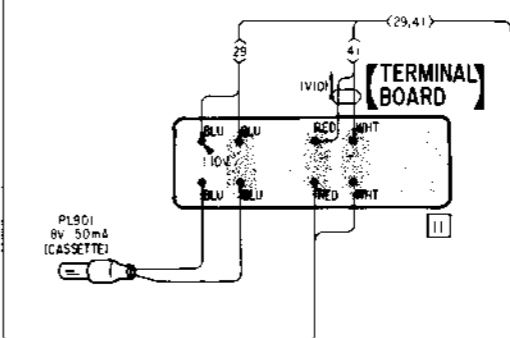
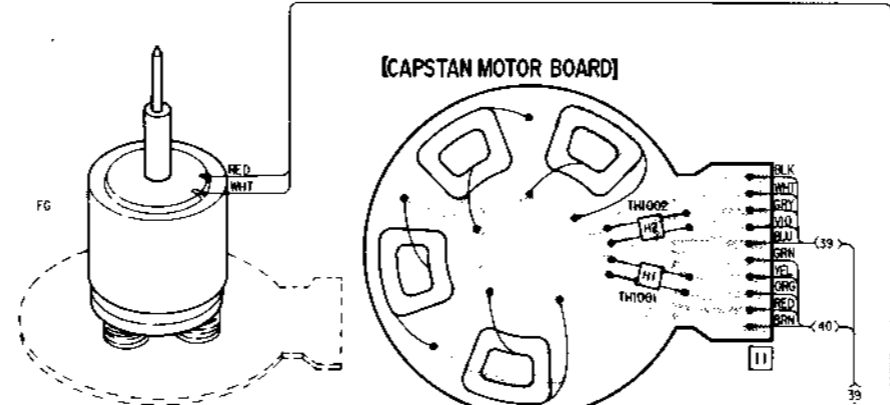
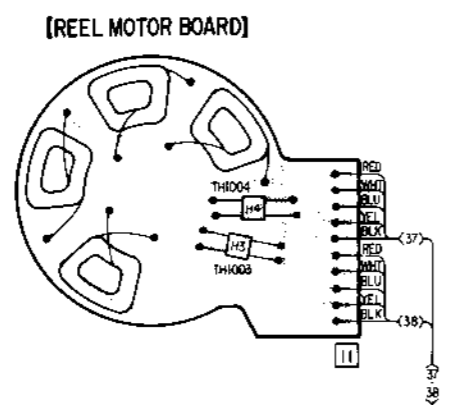
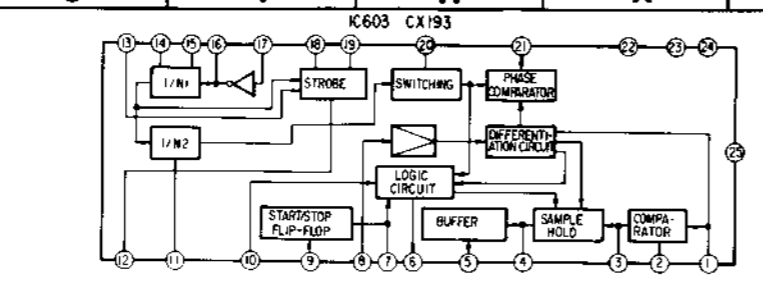
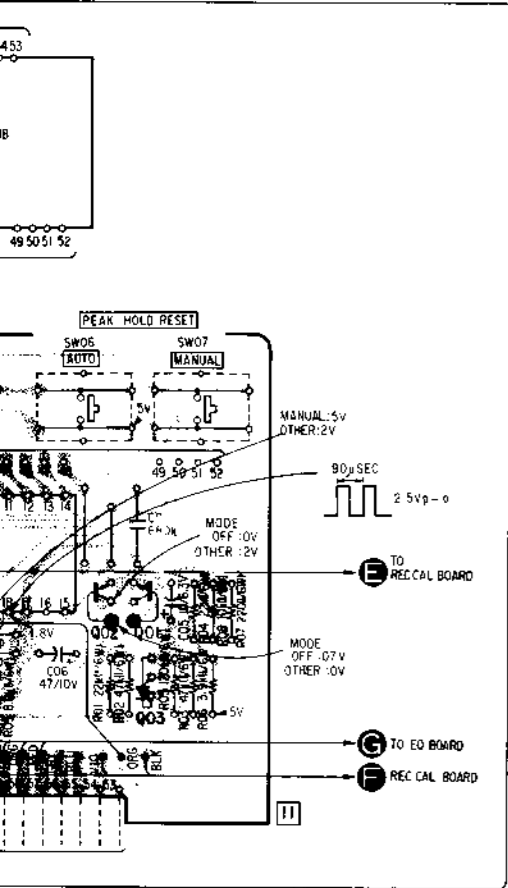
4-5. MOUNTING DIAGRAM - System Control Section - See page 56 for the Semiconductor Lead Layouts.



Q	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855			
IC	IC802	IC803	IC804	IC805	IC806	IC807	IC808	IC809	IC810	IC811	IC812	IC813	IC814	IC815	IC816	IC817	IC818	IC819	IC820	IC821	IC822	IC823	IC824	IC825	IC826	IC827	IC828	IC829	IC830	IC831	IC832	IC833	IC834	IC835	IC836	IC837	IC838	IC839	IC840	IC841	IC842	IC843	IC844	IC845	IC846	IC847	IC848	IC849	IC850	IC851	IC852	IC853	IC854	IC855				
D	994	993	808	992	991	802	964	801	803	811	810	963	811	810	963	960	812	951	958	961	962	959	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855



811	IC01	IC02	IC03	02	01	03	751	605	606	IC605
		06,04					752	603	604	
			07,05				754	708	707	
							753	710	709	IC703
										IC702
815		01								
816		03	04							
807		05		06						
806		06	853	854	855					
	851	852					751			



- Note:**
- Color code of sleeving over the end of the jacket.
 - ⊖ : parts extracted from the component side.
 - ⊕ : indicates side identified with part number.
 - ⊕ : fusible resistor.
 - ⊕ : B + pattern
 - : signal path
 - : L-CH signal path
 - : R-CH signal path
 - Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
 - no mark: PLAYBACK
 - (): RECORD

02	01	03	751	605	606	IC605	602	IC604	IC603	601	IC602	Q
			752	603	604		706	705	704	701		IC
			753	708	709	IC703			IC701		IC601	
			751	710		IC702			703			
							707		705	703	704	701,702
									706			601
												602

Voltages and Waveforms at the Terminals of IC801

Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage
①		⑫		⑲	forward and record mode DC 10 V
②		⑬		⑳, ㉑	record mode: DC 10 V
③		⑭		㉒	DC 10 V
⑥				㉓	grounded
⑦		⑮		㉔	DC 10 V
				㉕	
⑧		⑯, ⑰		㉖	
				㉗	
⑨		⑱		㉘	
				㉙, ㉚	DC 10 V
⑩		㉔		㉛	
				㉜	record mode: DC 10 V
⑪		㉕		㉜	grounded
				㉝	
⑫		㉖		㉞	
				㉟	grounded
⑬		㉗		㉡	
⑭		㉘			
⑮		㉙		㉢	DC 10 V

Note: (for System Control Board Schematic Diagram)

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
no mark: PLAYBACK
(): RECORD
- AC voltage readings in the bias oscillator with a VTVM.
- Switches

Ref. No.	Switch	Position
SW01	RESET	OFF
SW02	MEMORY	OFF
SW03	DOLBY NR	OFF
SW04	DOLBY C	OFF
SW05	OFF (STRAIGHT)	OFF
SW06	AUTO	OFF
SW07	MANUAL	OFF
S801	TIMER	OFF
S851-857	Function	OFF
S951	POWER	OFF
S1001	Cassette Half	OFF
S1001	Accident Erasure Proof	OFF

Note: Voltages are measured with a VOM (50k Ω /V).

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Voltage levels are measured by the oscilloscope which has 10 M Ω probe. They may be different from those indicated in the schematic or mounting diagrams which are measured by a VOM.

● Semiconductor Lead Layouts

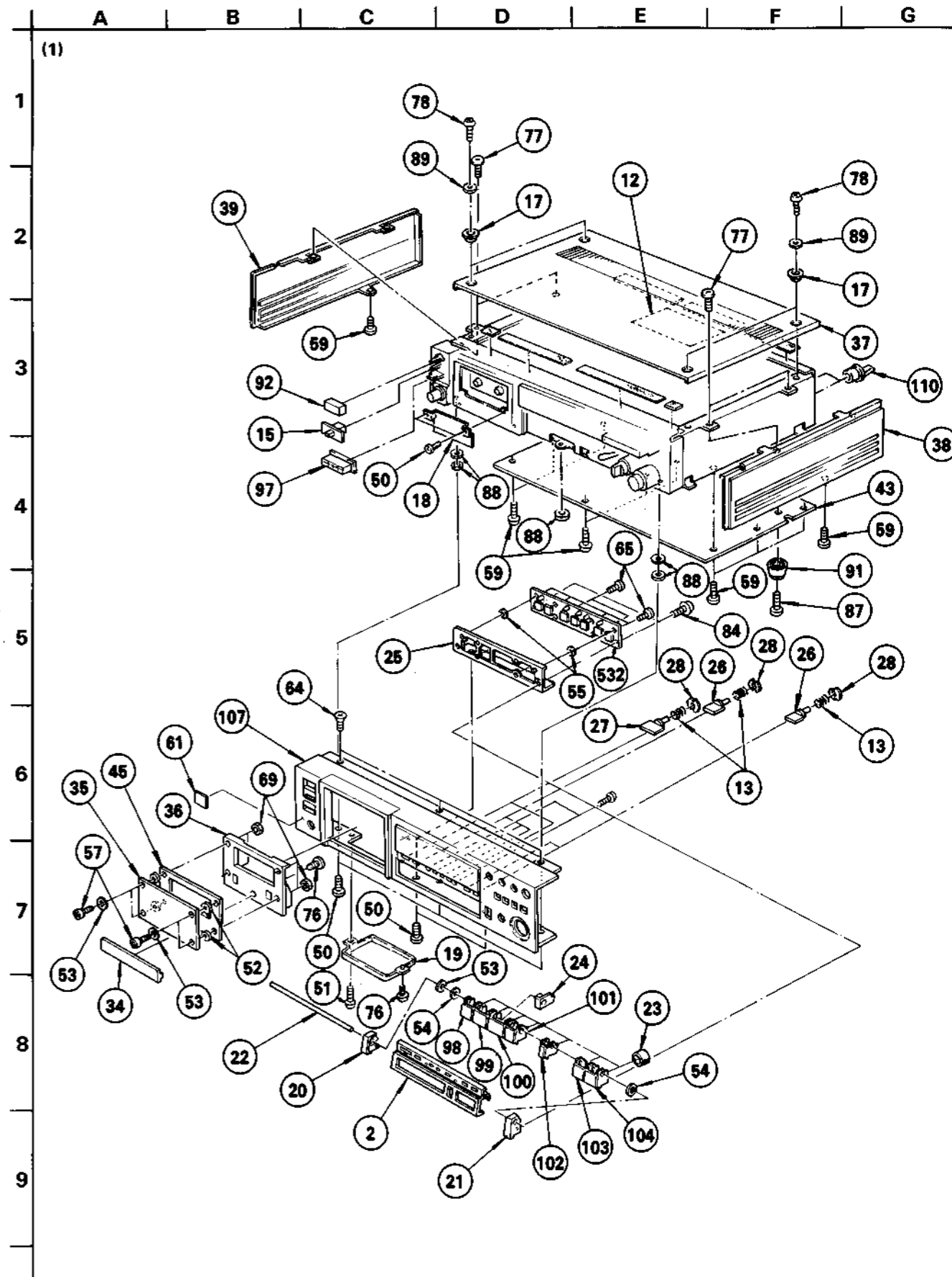
<p>CX193</p> <p>(Top view)</p>	<p>10YG1.1</p> <p>cathode anode</p>	<p>2SA1026- 2SA1026- 2SA1027</p> <p>E C B</p>
<p>CX20087 CX20088 MSL9357RS MSL9358RS MB84069UB NE5532P NE5534P NJM4560P $\mu\text{PC}339\text{C}$ $\mu\text{PC}4558\text{C}$ $\mu\text{PD}547\text{C}093$ $\mu\text{PD}550\text{C}047$</p>	<p>AA5525S BR5525S PG5525SX PY5525S</p> <p>long short anode cathode</p>	<p>2SA1138 2SC2676 2SD774</p> <p>E C B</p>
<p>line or slit or dot</p> <p>(Top view)</p>	<p>N13T1</p> <p>anode cathode</p>	<p>2SB548 2SB731 2SD414 2SD809</p> <p>letter side</p> <p>E C B</p>
<p>$\mu\text{PC}78\text{L}05\text{R}$</p> <p>OUT GND IN</p>	<p>2SA733 2SA1015 2SB646A 2SB646C 2SC945 2SC1364 2SC1364-8 2SC1815 2SD666 2SD666R 2SD789</p> <p>E C B</p>	<p>2SB834 2SD880</p> <p>B C E</p>
<p>10E2 10YD1.3 30DF2 30DF2-FA IS1555 EQB01-06 HZ6B1L HZ6B2L HZ12A-2L HZ12B1L HZ12C3L HZ15-3L HZ20-2L HZ27-1L</p> <p>cathode anode</p>	<p>2SA937 2SC2021</p> <p>B C E</p>	<p>2SK125</p> <p>S G D</p>
<p>2SK245</p> <p>D1 G1 S1</p>		

Voltage	Terminal No.	Waveform or Voltage
4 V 0 V REC	(29)	forward and record mode DC 10 V
10 V 0 V 10 V	(30), (31)	record mode: DC 10 V
10 V	(32)	DC 10 V
0 V is changed to forward	(33)	grounded
10 V	(34)	DC 10 V
0 V mode	(35)	10 V 5 V when PAUSE button is being pushed 0 V
0 V or just triggered and	(36)	10 V 3 V 0 V when REC button is pushed
DC 10 V	(37)	10 V 0 V when fast forward button is being pushed
DC 10 V	(38)	10 V 0 V when forward button is pushed
10 V 0 V	(39)	10 V 0 V when REC button is pushed
DC 10 V	(41)	grounded
DC 10 V DC 10 V	(42)	0.28 V 2.6 μsec

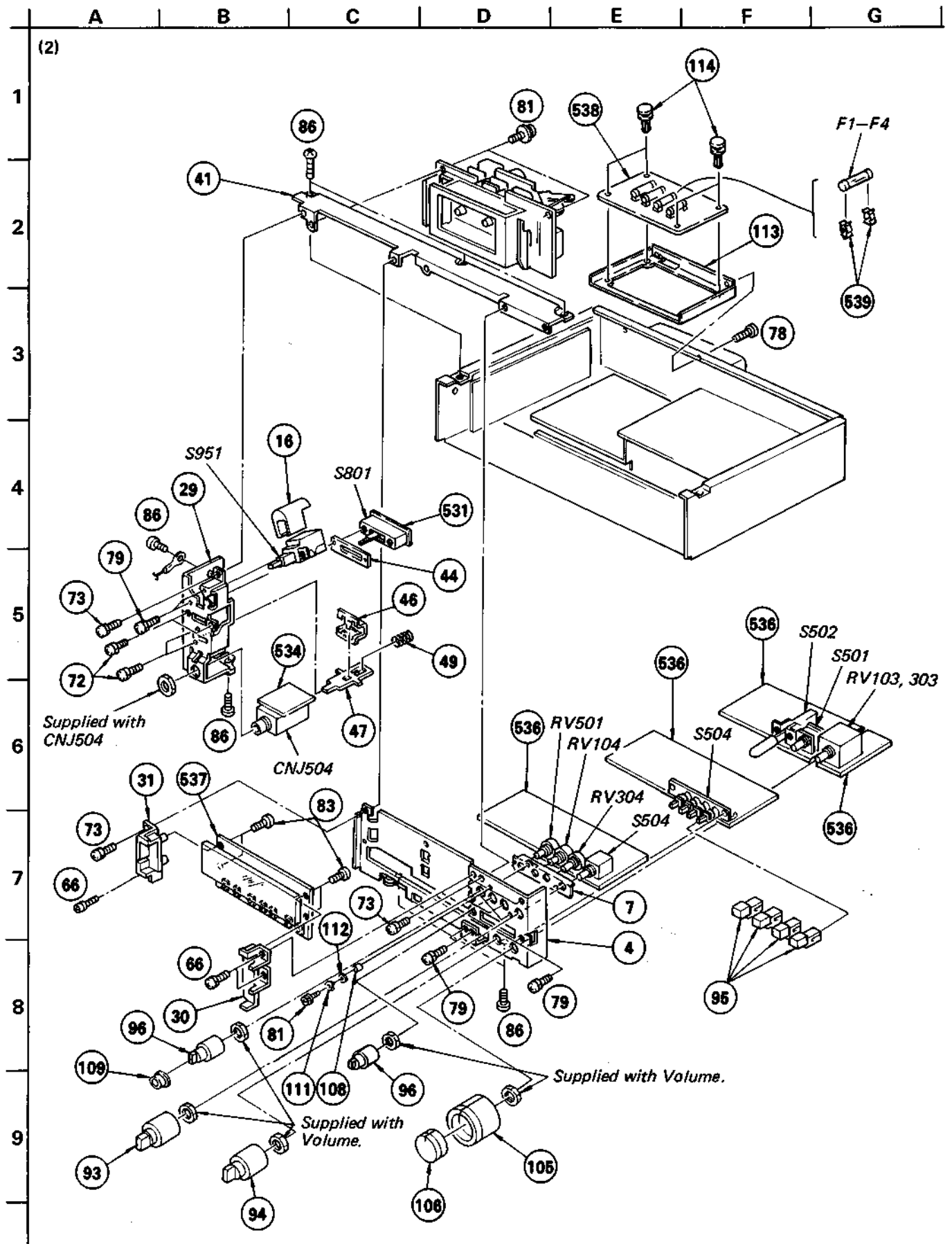
• Semiconductor Lead Layouts

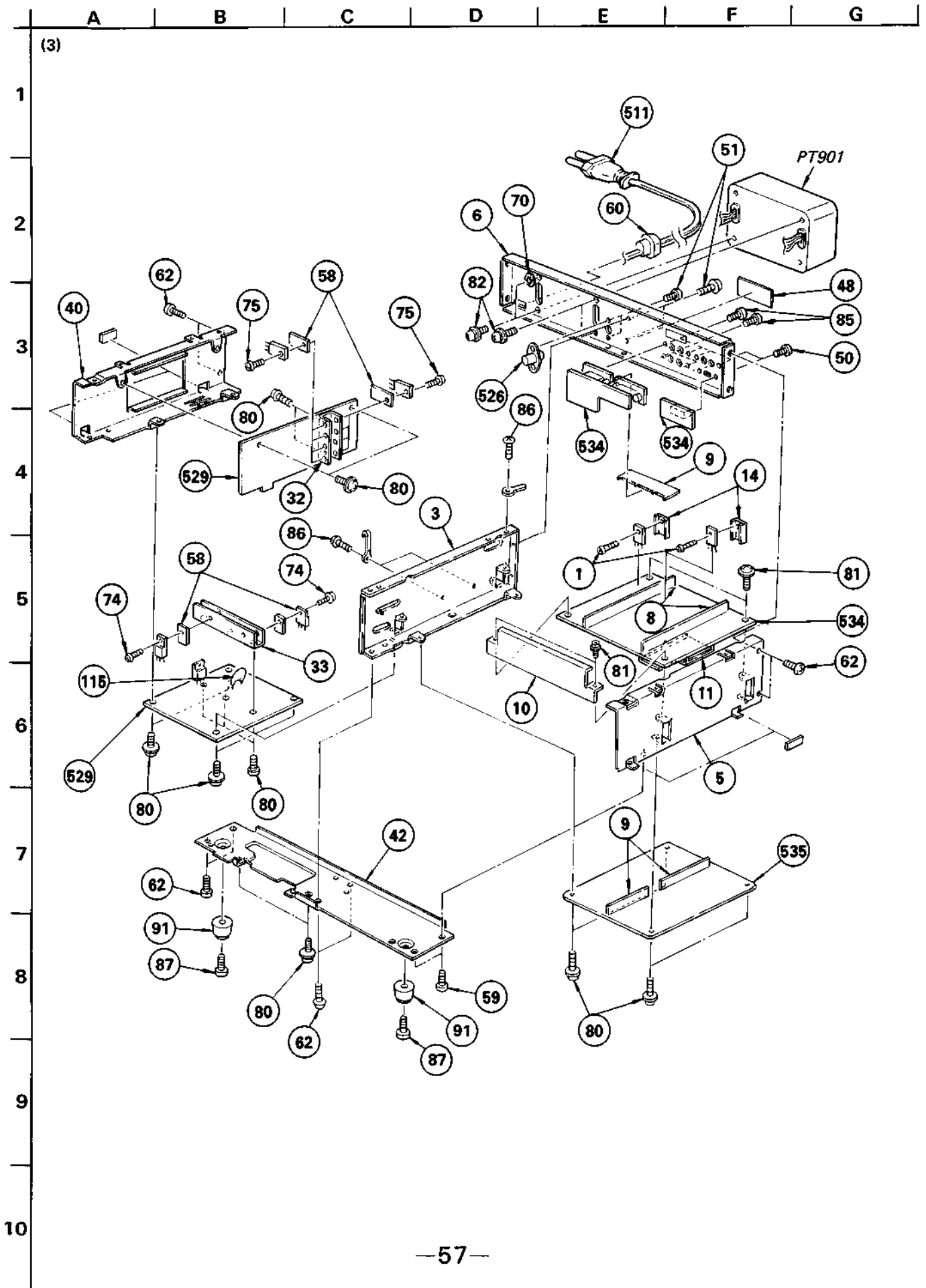
CX193 (Top view)	10YG1.1 cathode anode	2SA1026-7 2SA1026-8 2SA1027R
CX20087 CX20088 MSL9357RS MSL9358RS MB84069UB NE5532P NE5534P NJM4560P μPC339C μPC458C μPD547C093 μPD550C047 	AA5525S BR6525S PG5525SX PY5525S long short anode cathode	2SA1138 2SC2676 2SD774
 line or slit or dot (Top view)	N13T1 anode cathode gate	2SB648 2SB731 2SD414 2SD809 letter side
μPC78L05R OUT GND IN	2SA733 2SA1015 2SB646A 2SB646C 2SC945 2SC1364 2SC1364-B 2SC1815 2SD666 2SD666R 2SD789 	2SB834 2SD880
10E2 10YD1.3 30DF2 30DF2-FA IS1555 EQB01-06 HZ681L HZ682L HZ12A-2L HZ12B1L HZ12C3L HZ15-3L HZ20-2L HZ27-1L 	2SA937 2SC2021 	2SK125
 cathode anode		2SK245 D1 D2 G1 G2 S1 S2

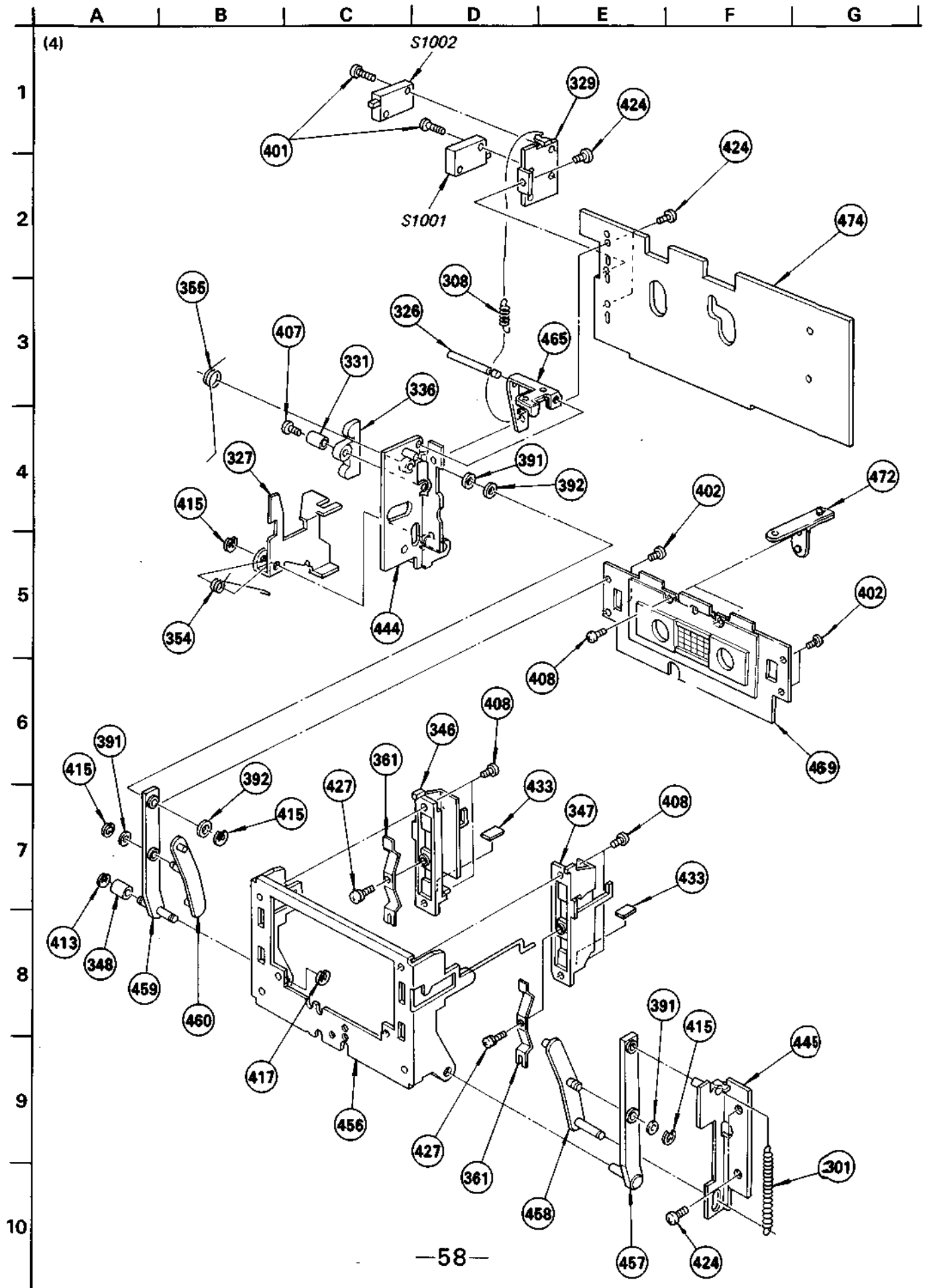
SECTION 5
EXPLODED VIEWS AND PARTS LIST

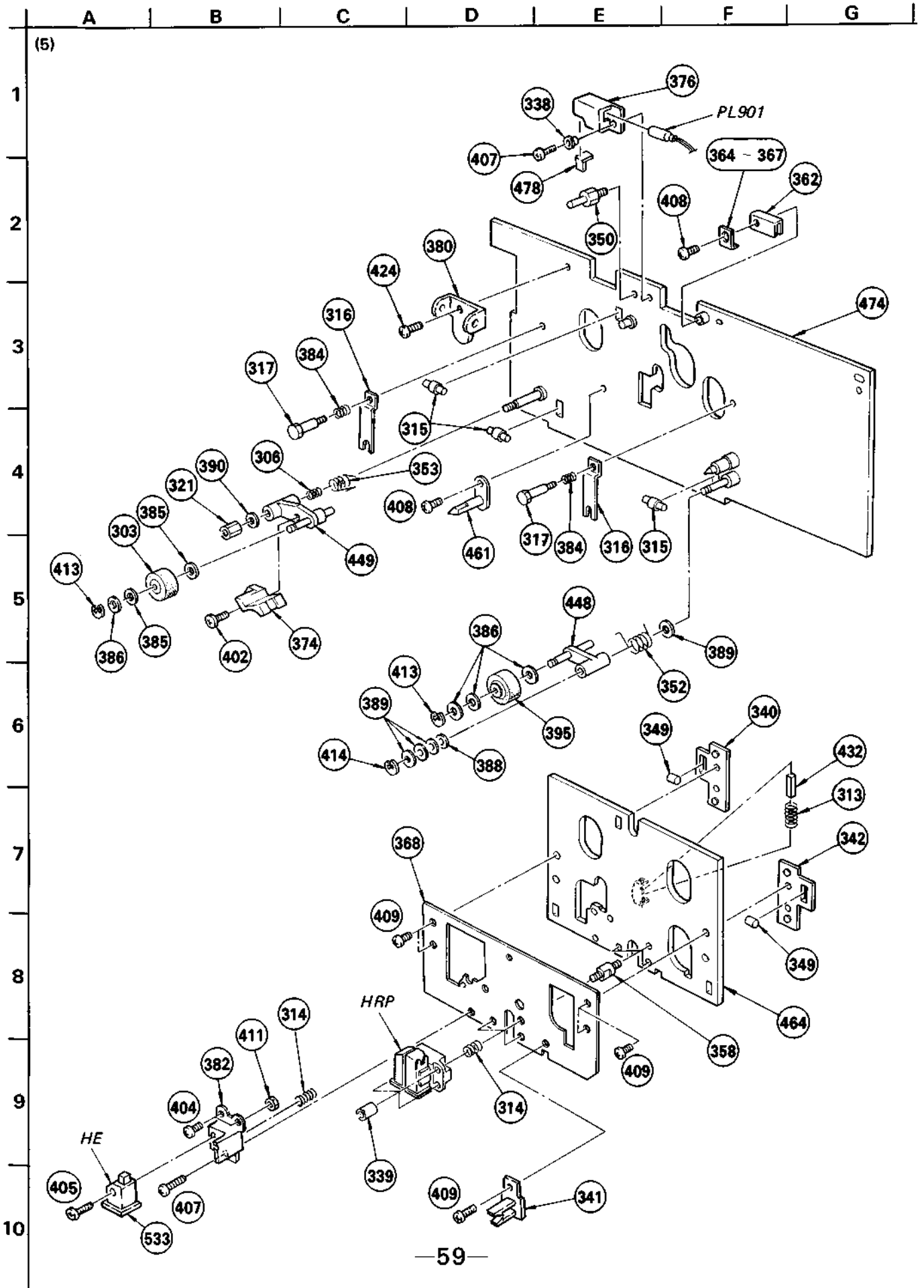


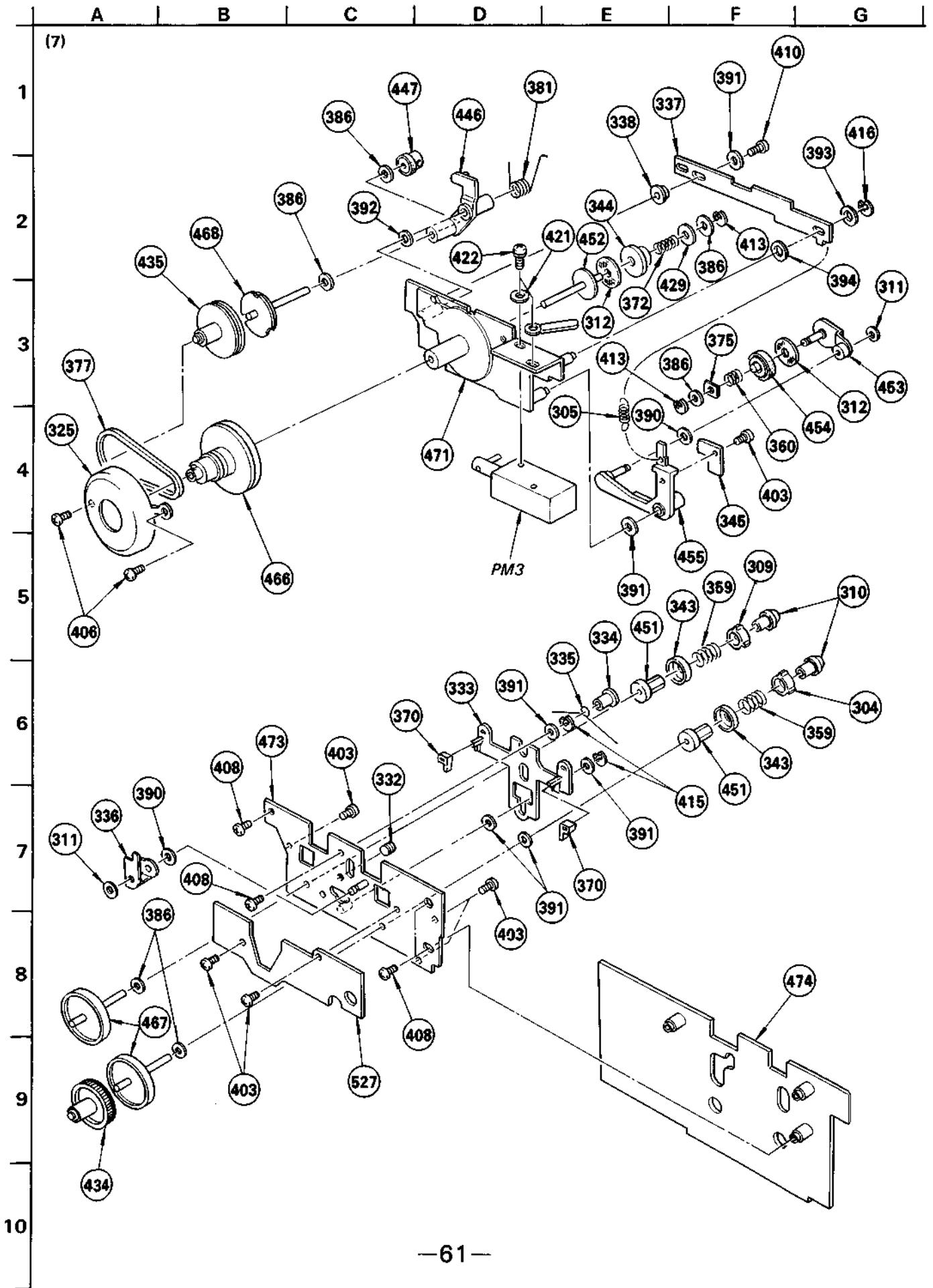
Voltage levels are measured by the oscilloscope which has 10 MΩ probe. They may be different from those indicated in the schematic or mounting diagrams which are measured by a VOM.











GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-311-602-00	SASH (B), CONTROL BUTTON
3	3-311-603-00	PARTITION, INNER
4	3-311-605-00	CHASSIS (A), AMPLIFIER
5	3-311-606-00	PLATE, SIDE, RIGHT
6	3-311-616-00	PLATE, JACK
7	3-311-608-00	BRACKET, CONTROL
8	3-311-617-01	REINFORCEMENT, PCB
9	3-311-617-11	REINFORCEMENT, PCB
10	3-311-618-00	PLATE, SHIELD, ELECTROSTATIC
11	3-311-619-00	PLATE, SHIELD, BIAS
12	.....
13	3-489-043-00	SPRING, COMPRESSION
14	3-567-242-00	HEAT SINK
15	3-575-515-41	KNOB, SLIDE SWITCH
16	3-575-524-00	COVER, POWER SWITCH
17	3-576-298-11	ESCUTCHEON
18	3-576-930-00	PLATE, SHIELD, HEAD
19	3-577-602-00	COVER, MECH DECK
20	3-577-604-11	PLATE (L), SIDE, CONTROL BLOCK
21	3-577-605-11	PLATE (R), SIDE, CONTROL BLOCK
22	3-577-606-11	SHAFT
23	3-577-607-00	SPACER, CONTROL BUTTON
24	3-577-615-00	GUIDE, SHAFT, CONTROL BUTTON
25	3-577-624-00	BRACKET, CONTROL BLOCK
26	3-577-638-11	PUSH BUTTON (A)
27	3-577-640-11	PUSH BUTTON (B)
28	3-577-644-00	SPACER, PUSH BUTTON
29	3-577-647-00	CHASSIS (B), AMPLIFIER
30	3-577-648-00	BRACKET (R), FL TUBE
31	3-577-649-00	BRACKET (L), FL TUBE
32	3-577-651-00	HEAT SINK, SERVO
33	3-577-652-00	HEAT SINK, SYSTEM CONTROL
34	3-577-655-11	SASH, CASSETTE WINDOW
35	3-577-656-00	WINDOW, CASSETTE
36	3-577-658-11	FRAME, CASSETTE WINDOW
37	3-577-660-21	COVER
38	3-577-662-11	PLATE, SIDE, ORNAMENTAL, RIGHT
39	3-577-663-11	PLATE, SIDE, ORNAMENTAL, LEFT
40	3-577-664-00	PLATE, SIDE, LEFT
41	3-577-666-00	REINFORCEMENT, UPPER
42	3-577-667-11	REINFORCEMENT, LOWER
43	3-577-669-11	PLATE, BOTTOM
44	3-577-674-00	SPACER, SWITCH
45	3-577-691-00	PLATE (B), ORNAMENTAL, WINDOW

GENERAL SECTION

No.	Part No.	Description
46	3-577-692-00	GUIDE (B), EJECT
47	3-577-693-00	SLIDER (B), EJECT
48	3-311-612-00	LABEL, MODEL NUMBER (AEP1)
49	3-583-507-00	SPRING
50	3-701-428-21	+B 2.6X4 WITH CLAW
51	3-701-429-21	SCREW, +B 3X5, PAWL
52	3-701-438-01	WASHER
53	3-701-438-11	WASHER, 2.5
54	3-701-438-21	WASHER
55	3-701-439-00	W 3, PLASTIC
56	.....
57	3-701-584-01	BOLT WITH HEXAGONAL HOLE, 2.6X8
58	3-703-037-00	INSULATOR, T0-220
59	3-703-108-21	SCREW +BV 3X6, S TIGHT
60	3-703-244-00	BUSHING, CORD
61	3-703-710-41	STICKER, SONY SYMBOL (12)
62	3-703-685-21	+BV 3X8 WITH CLAW
63	4-854-741-00	CAP, DUST PROTECTION, P.J
64	7-621-559-35	SCREW +K 2.6X5
65	7-621-770-44	SCREW +B 2X5
66	7-621-773-95	SCREW +B 2.6X6
67	7-621-775-10	SCREW +B 2.6X4
68	7-621-775-20	SCREW +B 2.6X5
69	7-622-207-05	N 2.6, TYPE 2
70	7-623-310-07	LW 4, TYPE A
71	7-623-421-07	LW 2.6, TYPE B
72	7-628-254-15	SCREW +PS 2.6X6
73	7-628-254-25	SCREW +PS 2.6X8
74	7-682-142-00	P 3X5, PLASTIC
75	7-682-146-20	SCREW +P 3X5
76	7-682-545-09	SCREW +B 3X4
77	7-682-546-01	+B 3X5
78	7-682-547-09	SCREW +B 3X6
79	7-682-647-01	SCREW +PS 3X6
80	7-682-947-09	SCREW +PSW 3X6
81	7-682-948-01	SCREW +PSW 3X8
82	7-682-961-09	SCREW +PSW 4X8
83	7-685-133-11	SCREW +P 2.6X6 TYPE2 SLIT
84	7-685-534-21	SCREW +BTP 2.6X8 TYPE2 SLIT
85	7-685-545-29	SCREW +BTP 3X6 TYPE2 SLIT
86	7-685-871-01	SCREW +BYTT 3X6 (S)
87	7-685-872-01	SCREW +BVTT 3X8 (S)
88	7-688-003-11	W 3, MIDDLE
89	7-688-003-12	W 3, MIDDLE
90	9-911-841-XX	CUSHION

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.


RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MH : mH, UH : μH

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

GENERAL SECTION

No.	Part No.	Description
91	X-3556-910-0	FOOT ASSY, MF
92	X-3575-502-6	KNOB ASSY, POWER
93	X-3577-603-3	KNOB ASSY, MODE
94	X-3577-604-3	KNOB ASSY, LINE OUT
95	X-3577-606-2	KNOB ASSY, SQUARE
96	X-3577-607-4	KNOB ASSY, REC CAL
97	X-3577-608-2	KNOB ASSY, EJECT
98	X-3577-610-4	REW BUTTN ASSY
99	X-3577-611-4	STOP BUTTN ASSY
100	X-3577-612-4	FWD BUTTN ASSY
101	X-3577-613-4	FF BUTTN ASSY
102	X-3577-614-4	REC BUTTN ASSY
103	X-3577-615-4	DAUSE BUTTN ASSY
104	X-3577-616-4	REC MUTE BUTTN ASSY
105	X-3577-617-0	KNOB (RIGHT) ASSY, REC
106	X-3577-618-0	KNOB (LEFT) ASSY, REC
107	X-3577-620-0	PANEL ASSY
108	3-311-622-00	SPACER, VT
109	3-577-676-00	SPACER, REC KNOB
110	.....
111	7-623-710-17	WASHER 4, WAVE
112	7-688-004-11	W 4, MIDDLE
113	3-311-615-00	BRACKET (B), FUSE
114	4-812-134-00	RIVET NYLON, 3.5
115	4-875-455-01	COVER (DIA. 20), CAPACITOR

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
201	1-551-315-00	CORD, CONNECTION
202	3-311-609-00	BAG, PROTECTION
203	3-311-621-00	INDIVIDUAL CARTON
204	3-577-672-00	CUSHION, FRONT
205	3-577-673-00	CUSHION, REAR
206	3-701-630-00	BAG, POLYETHYLENE
207	3-773-232-11	MANUAL, INSTRUCTION
208	3-773-232-41	MANUAL, INSTRUCTION
209	3-793-481-13	INSTRUCTION
210	3-793-828-11	QUESTIONNAIRE
211	X-3701-105-0	ROD ASSY, CLEANING, HEAD

MECHANISM SECTION

No.	Part No.	Description
301	3-140-235-XX	SPRING, TENSION
302	3-489-073-21	SCREW, THRUST
303	3-491-020-00	PINCH ROLLER
304	3-531-760-00	CLAW, REEL SPINDLE
305	3-534-274-XX	SPRING, TENSION
306	3-537-213-00	SPRING, COMPRESSION
307	3-537-790-11	SUPPORT, TENSION ARM
308	3-541-231-00	SPRING, TENSION
309	3-558-339-00	CLAW (R), REEL TABLE
310	3-558-482-00	CAP, REEL
311	3-558-708-21	WASHER, STOPPER
312	3-564-027-01	FELT, LIMITER
313	3-564-035-00	SPRING, COMPRESSION
314	3-564-121-00	SPRING, COMPRESSION
315	3-576-801-00	ROLLER, BASE, HEAD
316	3-576-802-00	RETAINER, ROLLER
317	3-576-803-00	SHAFT, RETAINER, ROLLER
318	3-576-805-00	LEVER (B), HEAD UP
319	3-576-806-00	DISK, ARM, TAKE-UP
320	3-576-807-00	SUPPORT (B)
321	3-576-808-00	ADJUSTOR, PINCH ROLLER
322	3-576-810-00	PLATE, RETURN CIRCUIT
323	3-576-812-00	BELT, CAPSTAN
324	3-576-815-00	REINFORCEMENT, BASE
325	3-576-816-00	CASE, SHIELD, RM
326	3-576-819-00	SHAFT, LEVER, GB
327	3-576-820-00	ARM, LOCK
328	3-576-821-00	BRACKET, CHASSIS, MECHANISM
329	3-576-822-00	HOLDER (A), SE
330	3-576-823-00	ARM, E
331	3-576-824-00	COLLAR
332	3-576-826-00	SCREW, ADJUSTMENT
333	3-576-827-00	PLATE, BRAKE
334	3-576-828-00	SHAFT, SPRING, BRAKE
335	3-576-829-00	SPRING
336	3-576-830-00	ARM, BRAKE
337	3-576-831-00	LEVER, SELECT, MODE
338	3-576-832-00	GUIDE, SELECTOR, MODE
339	3-576-834-00	NUT, LOCK
340	3-576-836-00	RETAINER (L), ROLLER
341	3-576-837-00	CLAMP, LEAD
342	3-576-838-00	RETAINER (R), ROLLER
343	3-576-840-00	RING, TABLE, REEL
344	3-576-841-00	PULLEY, LIMITER
345	3-576-842-00	STOPPER, B.T

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example:
UA....: μA...., UPA....: μPA...., UPC....: μPC, UPD....: μPD....

MECHANISM SECTION

No.	Part No.	Description
346	3-576-843-00	GUIDE (LEFT), HOLDER
347	3-576-844-00	GUIDE (RIGHT), HOLDER
348	3-576-845-00	ROLLER
349	3-576-909-00	ROLLER (C)
350	3-576-911-00	PIN (A), POSITIONING, HALF
351	3-576-912-00	SPRING, COMPRESSION
352	3-576-913-00	SPRING (T)
353	3-576-914-00	SPRING (S)
354	3-576-915-00	SPRING
355	3-576-916-00	SPRING
356	▲;3-576-917-00	PLATE, SHIELD
357	▲;3-576-918-00	BRACKET (B), CHASSIS, MECH
358	3-576-920-00	SHAFT, SUPPORT, HEAD
359	3-576-921-00	SPRING, COMPRESSION
360	3-576-922-00	SPRING, COMPRESSION
361	3-576-924-00	SPRING
362	▲;3-576-948-00	STOPPER, CHASSIS, HEAD
363	3-576-950-01	SEAM, STOPPER
364	3-576-950-11	SEAM, STOPPER
365	3-576-950-21	SEAM, STOPPER
366	3-576-950-31	SEAM, STOPPER
367	3-576-950-41	SEAM, STOPPER
368	▲;3-576-951-00	SHIELD, CHASSIS, HEAD
369	▲;3-576-954-00	RETAINER, SOLENOID
370	3-576-958-01	SHOE, BRAKE
371	▲;3-576-959-00	RETAINER, TU PULLEY
372	3-576-960-00	SPRING, COMPRESSION
373	▲;3-576-961-01	PLATE, FG
374	3-576-962-00	GUIDE, TAPE
375	3-576-963-00	WASHER, STOPPER
376	3-576-966-00	HOLDER (A), LAMP
377	3-576-967-00	BELT, TAKE-UP
378	▲;3-576-969-00	LEVER (A), HEAD UP
379	3-576-970-21	SPRING
380	▲;3-576-971-00	HOLDER, GB
381	3-576-974-03	SPRING
382	▲;3-576-977-00	BRACKET, E. HEAD
383	.....
384	3-634-196-00	SPRING
385	3-701-437-01	WASHER
386	3-701-437-11	WASHER
387	3-701-438-21	WASHER
388	3-701-439-01	WASHER
389	3-701-439-11	WASHER
390	3-701-439-21	WASHER

MECHANISM SECTION

No.	Part No.	Description
391	3-701-441-11	WASHER
392	3-701-441-21	WASHER
393	3-701-443-11	WASHER
394	3-701-443-21	WASHER, 5
395	3-701-455-11	PINCH ROLLER
396	7-621-731-08	SET-SCT, HEX. 2X2.5, FLAT POINT
397	7-621-732-08	SET-SCT, HEX. 2X3 FLAT POINT
398	7-621-734-09	SET-SCT, HEX. 2.6X3
399	7-621-735-09	SET-SCT, HEX. 2.6X4
400	7-621-759-35	+PSW, 2.6X5
401	7-621-770-96	SCREW +B 2X8
402	7-621-772-10	SCREW +B 2X4
403	7-621-772-15	SCREW +B 2X4
404	7-621-772-40	SCREW +B 2X8
405	7-621-772-60	SCREW +B 2X12
406	7-621-773-93	SCREW +B 2.6X3
407	7-621-773-95	SCREW +B 2.6X6
408	7-621-775-10	SCREW +B 2.6X4
409	7-621-775-20	SCREW +B 2.6X5
410	7-621-775-25	SCREW +B 2.6X5
411	7-622-205-05	N 2, TYPE 2
412	7-624-101-04	STOP RING 1.2 (E TYPE)
413	7-624-102-04	STOP RING 1.5, TYPE -E
414	7-624-105-04	STOP RING 2.3, TYPE -E
415	7-624-106-04	STOP RING 3.0, TYPE -E
416	7-624-108-04	STOP RING 4.0, TYPE -E
417	7-624-118-01	RING, RETAINING E-2.5
418	7-624-190-81	STOP RING 2, TYPE-CS
419	7-624-193-08	STOP RING 3, GRIP
420	7-625-712-00	RIVET 2X3
421	7-628-002-11	W 2.6, MIDDLE
422	7-628-253-95	SCREW +PS 2.6X4
423	7-628-254-15	SCREW +PS 2.6X6
424	7-682-546-09	SCREW +B 3X5
425	7-682-647-01	SCREW +PS 3X6
426	7-682-946-01	SCREW +PSW 3X5
427	7-685-502-24	TOTSU PTPWH 2X4, TYPE 2, SLIT
428	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
429	7-688-001-11	W 2, MIDDLE
430	7-688-002-01	W 2.6, SMALL
431	7-688-002-11	W 2.6, MIDDLE
432	9-911-815-02	CUSHION
433	9-911-838-XX	RETAINER, CASSETTE
434	A-2131-003-A	DRUM COMPLETE ASSY, BT
435	A-2138-004-A	HOLDER COMPLETE ASSY, MAGNET

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: μF .

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MH : mH, μH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA...: μA ..., UPA...: μPA ..., UPC...: μPC ...,
 UPD...: μPD ...

MECHANISM SECTION

No.	Part No.	Description
436	.....
437	X-3310-811-0	FLYWHEEL (T) ASSY
438	♣;X-3576-801-0	LEVER ASSY, PRESS
439	♣;X-3576-802-0	LEVER ASSY, CHANGE
440-443	.....
444	♣;X-3576-805-0	PLATE (L) ASSY, FULCRUM
445	♣;X-3576-806-0	PLATE (R) ASSY, FULCRUM
446	X-3576-812-0	ARM ASSY, TAKE-UP
447	X-3576-813-0	PULLEY ASSY, TAKE-UP
448	X-3576-815-0	PINCH LEVER (T) ASSY
449	X-3576-816-0	PINCH LEVER (S) ASSY
450	.....
451	X-3576-817-0	TABLE (B) ASSY, REEL
452	X-3576-819-0	PULLEY (2) ASSY, MOTOR, REEL
453	X-3576-821-0	ARM (2) ASSY, FR
454	X-3576-822-0	IDLER ASSY, FR
455	♣;X-3576-823-0	ARM (1) ASSY, FR
456	X-3576-824-0	HOLDER ASSY, CASSETTE
457	♣;X-3576-825-0	LEVER ASSY (R), SWING
458	X-3576-826-0	ARM ASSY (R), CONNECT
459	♣;X-3576-827-0	LEVER ASSY (L), SWING
460	X-3576-828-0	ARM ASSY (L), CONNECT
461	X-3576-831-0	GUIDE ASSY, CASSETTE
462	X-3576-832-0	FLYWHEEL (S) ASSY
463	X-3576-833-0	SE ASSY
464	X-3576-834-0	CHASSIS ASSY, HEAD
465	X-3576-839-1	LEVER GB ASSY
466	X-3576-840-1	MOTOR PULLEY ASSY
467	X-3576-841-2	S REEL TABLE ASSY
468	X-3576-843-1	HP HOLDER ASSY
469	X-3576-845-2	BACK BOARD ASSY
470	X-3576-846-1	MOTOR BOARD ASSY
471	X-3576-849-1	SUB CHASSIS ASSY
472	X-3576-850-0	SPRING ASSY
473	♣;X-3576-852-0	COVER ASSY, SUB CHASSIS
474	♣;X-3576-853-0	CHASSIS ASSY, MECHANICAL
475	X-3576-854-1	HOLDER (A) ASSY
476	X-3576-855-1	HOLDER (B) ASSY
477	7-721-775-75	B 2.6X14
478	♣;3-576-978-00	FILM, RH
479	3-310-865-00	WASHER, INSULATING

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-459-426-00	COIL, FG
502	♣;1-508-819-00	17MM BASE POST
503	♣;1-508-820-00	17MM BASE POST
504	♣;1-508-878-00	BASE POST
505	♣;1-508-879-00	BASE POST
506	♣;1-508-880-00	BASE POST, MCD CONNECTOR 6P
507	♣;1-508-881-00	BASE POST
508	♣;1-508-882-00	BASE POST
509	1-519-277-00	INDICATOR TUBE, FLUORESCENT
510	♣;1-535-116-00	TERMINAL
511	♣;1-555-796-00	CORD, POWER
512	.....
513	♣;1-560-061-00	PIN, CONNECTOR 3P
514	.....
515	♣;1-560-062-00	PIN, CONNECTOR 4P
516	.....
517	.....
518	.....
519	♣;1-560-063-00	PIN, CONNECTOR 5P
520	♣;1-562-249-00	SOCKET, CONNECTOR 4P
521	♣;1-562-250-00	SOCKET, CONNECTOR 5P
522	♣;1-562-251-00	SOCKET, CONNECTOR 6P
523	♣;1-560-064-00	PIN, CONNECTOR 6P
524	.....
525	.....
526	1-561-598-00	SOCKET 4P
527	♣;1-604-268-00	PC BOARD, SENSOR
528	♣;1-604-269-00	PC BOARD, TERMINAL
529	♣;A-2019-157-A	MOUNTED PCB, SYSTEM CONTROL
530	♣;A-2020-076-A	MOUNTED PCB, SERVO
531	♣;1-604-295-00	PC BOARD, TIMER SWITCH
532	♣;1-604-296-00	PC BOARD, CONTROL SW
533	♣;1-608-268-00	PC BOARD, ERASE HEAD
534	♣;A-2056-179-A	PC BOARD ASSY, RECORD/PLAYBACK
535	♣;A-2030-011-A	MOUNTED PCB, N,R
536	♣;A-2056-180-A	PC BOARD ASSY, CONTROL
537	♣;A-2029-087-A	MOUNTED PCB, METER
538	♣;1-605-810-00	PC BOARD, FUSE
539	♣;1-533-131-00	HOLDER, FUSE
C01	1-161-321-00	CERAMIC 680PF 10% 50V
C02	1-131-498-00	TANTALUM 1MF 20% 25V
C03	1-161-321-00	CERAMIC 680PF 10% 50V
C04	1-161-321-00	CERAMIC 680PF 10% 50V
C05	1-131-383-00	TANTALUM 10MF 10% 6.3V
C06	1-123-306-00	ELECT 47MF 20% 10V

NOTE:

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- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μuF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example : UA...: μA...; UPA...: μPA...; UPC...: μPC; UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C07	1-130-627-00	FILM	0.039MF	5%	50V
C08	1-161-321-00	CERAMIC	680PF	10%	50V
C09	1-161-321-00	CERAMIC	680PF	10%	50V
C10	1-123-330-00	ELECT	22MF	20%	25V
C11	1-131-371-00	TANTALUM	10MF	20%	16V
C12	1-161-321-00	CERAMIC	680PF	10%	50V
C13	1-161-321-00	CERAMIC	680PF	10%	50V
C102	1-123-709-00	ELECT	1MF	20%	50V
C104	1-107-284-00	MICA	22PF	5%	100V
C105	1-130-683-00	FILM	0.027MF	2%	630V
C106	1-124-336-00	ELECT	10MF	20%	100V
C107	1-107-300-00	MICA	100PF	5%	100V
C108	1-130-273-00	FILM	0.001MF	5%	100V
C109	1-124-336-00	ELECT	10MF	20%	100V
C110	1-124-332-00	ELECT	2.2MF	20%	100V
C111	1-124-336-00	ELECT	10MF	20%	100V
C112	1-124-332-00	ELECT	2.2MF	20%	100V
C113	1-123-693-00	ELECT	100MF	20%	25V
C114	1-130-323-00	FILM	0.12MF	5%	100V
C115	1-124-332-00	ELECT	2.2MF	20%	100V
C116	1-124-338-00	ELECT	22MF	20%	100V
C117	1-107-303-00	MICA	130PF	5%	100V
C118	1-130-279-00	FILM	0.0018MF	5%	100V
C120	1-124-185-00	ELECT	4.7MF	20%	50V
C121	1-107-284-00	MICA	22PF	5%	100V
C125	1-130-967-00	FILM	0.0027MF	3%	100V
C126	1-107-308-00	MICA	220PF	5%	100V
C127	1-107-308-00	MICA	220PF	5%	100V
C128	1-107-302-00	MICA	120PF	5%	100V
C129	1-130-955-00	FILM	0.01MF	3%	100V
C130	1-130-892-00	FILM	0.015MF	3%	100V
C131	1-130-955-00	FILM	0.01MF	3%	100V
C132	1-130-629-00	FILM	0.056MF	5%	50V
C133	1-130-635-00	FILM	0.18MF	5%	50V
C134	1-130-635-00	FILM	0.18MF	5%	50V
C135	1-130-629-00	FILM	0.056MF	5%	50V
C136	1-130-625-00	FILM	0.027MF	5%	50V
C137	1-124-182-51	ELECT	1MF	20%	50V
C138	1-130-635-00	FILM	0.18MF	5%	50V
C139	1-130-629-00	FILM	0.056MF	5%	50V
C140	1-130-633-00	FILM	0.12MF	5%	50V
C141	1-124-182-51	ELECT	1MF	20%	50V
C142	1-124-336-00	ELECT	10MF	20%	100V
C143	1-124-332-00	ELECT	2.2MF	20%	100V
C144	1-124-332-00	ELECT	2.2MF	20%	100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C145	1-107-298-00	MICA	82PF	5%	100V
C146	1-130-287-00	FILM	0.0039MF	5%	100V
C147	1-130-285-00	FILM	0.0033MF	5%	100V
C148	1-130-281-00	FILM	0.0022MF	5%	100V
C149	1-123-380-00	ELECT	1MF	20%	50V
C150	1-107-308-00	MICA	220PF	5%	100V
C151	1-107-308-00	MICA	220PF	5%	100V
C152	1-107-302-00	MICA	120PF	5%	100V
C153	1-130-955-00	FILM	0.01MF	3%	100V
C154	1-130-892-00	FILM	0.015MF	3%	100V
C155	1-130-955-00	FILM	0.01MF	3%	100V
C156	1-130-629-00	FILM	0.056MF	5%	50V
C157	1-130-635-00	FILM	0.18MF	5%	50V
C158	1-130-635-00	FILM	0.18MF	5%	50V
C159	1-130-629-00	FILM	0.056MF	5%	50V
C160	1-130-625-00	FILM	0.027MF	5%	50V
C161	1-124-182-51	ELECT	1MF	20%	50V
C162	1-130-635-00	FILM	0.18MF	5%	50V
C163	1-130-629-00	FILM	0.056MF	5%	50V
C164	1-130-633-00	FILM	0.12MF	5%	50V
C165	1-124-182-51	ELECT	1MF	20%	50V
C166	1-124-336-00	ELECT	10MF	20%	100V
C171	1-130-640-00	FILM	0.47MF	5%	50V
C172	1-124-185-00	ELECT	4.7MF	20%	50V
C173	1-130-640-00	FILM	0.47MF	5%	50V
C174	1-130-969-00	FILM	0.012MF	3%	100V
C175	1-130-973-00	FILM	0.022MF	3%	100V
C176	1-130-307-00	FILM	0.027MF	5%	100V
C177	1-130-975-00	FILM	0.03MF	3%	100V
C178	1-130-315-00	FILM	0.056MF	5%	100V
C179	1-130-973-00	FILM	0.022MF	3%	100V
C180	1-130-311-00	FILM	0.039MF	5%	100V
C181	1-123-380-00	ELECT	1MF	20%	50V
C501	1-123-697-00	ELECT	1000MF	20%	25V
C502	1-123-693-00	ELECT	100MF	20%	25V
C503	1-107-300-00	MICA	100PF	5%	100V
C504	1-107-284-00	MICA	22PF	5%	100V
C505	1-123-390-00	ELECT	330MF	20%	63V
C506	1-131-450-00	TANTALUM	1MF	20%	50V
C507	1-123-697-00	ELECT	1000MF	20%	25V
C508	1-123-693-00	ELECT	100MF	20%	25V
C509	1-107-300-00	MICA	100PF	5%	100V
C510	1-107-284-00	MICA	22PF	5%	100V
C511	1-123-390-00	ELECT	330MF	20%	63V
C512	1-131-450-00	TANTALUM	1MF	20%	50V

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C513	1-123-371-00	ELECT	22MF	20%	63V	
C514	1-123-371-00	ELECT	22MF	20%	63V	
C515	1-107-284-00	MICA	22PF	5%	100V	
C516	1-107-284-00	MICA	22PF	5%	100V	
C517	1-123-709-00	ELECT	1MF	20%	50V	
C518	1-123-709-00	ELECT	1MF	20%	50V	
C519	1-123-328-00	ELECT	4.7MF	20%	25V	
C522	1-130-624-00	FILM	0.022MF	5%	50V	
C523	1-130-624-00	FILM	0.022MF	5%	50V	
C524	1-108-561-00	MYLAR	0.0018MF	5%	50V	
C525	1-108-561-00	MYLAR	0.0018MF	5%	50V	
C526	1-123-356-00	ELECT	10MF	20%	25V	
C531	1-124-182-51	ELECT	1MF	20%	50V	
C532	1-130-620-00	FILM	0.01MF	5%	50V	
C533	1-130-624-00	FILM	0.022MF	5%	50V	
C534	1-130-620-00	FILM	0.01MF	5%	50V	
C535	1-123-371-00	ELECT	22MF	20%	63V	
C536	1-123-371-00	ELECT	22MF	20%	63V	
C537	1-123-371-00	ELECT	22MF	20%	63V	
C538	1-123-371-00	ELECT	22MF	20%	63V	
C539	1-123-356-00	ELECT	10MF	20%	25V	
C540	1-161-321-00	CERAMIC	680PF	10%	50V	
C541	1-124-071-00	ELECT	330MF	20%	10V	
C542	1-124-071-00	ELECT	330MF	20%	10V	
C543	1-124-071-00	ELECT	330MF	20%	10V	
C544	1-124-071-00	ELECT	330MF	20%	10V	
C545	1-124-092-00	ELECT	10MF	20%	50V	
C546	1-124-092-00	ELECT	10MF	20%	50V	
C601	1-161-326-00	CERAMIC	0.0022MF	30%	50V	
C602	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C603	1-130-624-00	FILM	0.022MF	5%	50V	
C604	1-130-624-00	FILM	0.022MF	5%	50V	
C605	1-124-070-00	ELECT	220MF	20%	10V	
C606	1-130-188-00	FILM	0.01MF	5%	100V	
C607	1-130-620-00	FILM	0.01MF	5%	50V	
C608	1-130-625-00	FILM	0.027MF	5%	50V	
C609	1-108-573-00	MYLAR	0.0056MF	5%	50V	
C610	1-124-092-00	ELECT	10MF	20%	50V	
C611	1-102-905-00	CERAMIC	130PF	5%	50V	
C612	1-102-522-00	CERAMIC	51PF	5%	50V	
C613	1-102-905-00	CERAMIC	130PF	5%	50V	
C614	1-130-634-00	FILM	0.15MF	5%	50V	
C615	1-130-631-00	FILM	0.082MF	5%	50V	
C616	1-130-308-00	FILM	0.03MF	5%	100V	
C617	1-130-301-00	FILM	0.015MF	5%	100V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C622	1-123-228-00	ELECT	1MF	20%	50V	
C623	1-123-228-00	ELECT	1MF	20%	50V	
C701	1-123-231-00	ELECT	3.3MF	20%	50V	
C702	1-130-629-00	FILM	0.056MF	5%	50V	
C703	1-123-231-00	ELECT	3.3MF	20%	50V	
C704	1-130-629-00	FILM	0.056MF	5%	50V	
C751	1-124-083-00	ELECT	220MF	20%	25V	
C752	1-124-080-00	ELECT	33MF	20%	25V	
C753	1-124-086-00	ELECT	1000MF	20%	25V	
C754	1-124-083-00	ELECT	220MF	20%	25V	
C755	1-124-080-00	ELECT	33MF	20%	25V	
C756	1-124-086-00	ELECT	1000MF	20%	25V	
C801	1-123-306-00	ELECT	47MF	20%	10V	
C802	1-123-306-00	ELECT	47MF	20%	10V	
C803	1-123-356-00	ELECT	10MF	20%	25V	
C804	1-123-328-00	ELECT	4.7MF	20%	25V	
C805	1-108-603-00	MYLAR	0.1MF	5%	50V	
C806	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C807	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C808	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C809	1-161-321-00	CERAMIC	680PF	10%	50V	
C810	1-161-321-00	CERAMIC	680PF	10%	50V	
C811	1-123-379-00	ELECT	0.47MF	20%	50V	
C812	1-123-379-00	ELECT	0.47MF	20%	50V	
C813	1-123-328-00	ELECT	4.7MF	20%	25V	
C814	1-123-379-00	ELECT	0.47MF	20%	50V	
C815	1-123-379-00	ELECT	0.47MF	20%	50V	
C816	1-123-380-00	ELECT	1MF	20%	50V	
C817	1-108-591-00	MYLAR	0.033MF	5%	50V	
C818	1-123-306-00	ELECT	47MF	20%	10V	
C951	1-123-517-00	ELECT	1000MF	20%	50V	
C952	1-123-515-00	ELECT	330MF	20%	50V	
C953	1-123-508-00	ELECT	1000MF	20%	35V	
C954	1-123-513-00	ELECT	100MF	20%	50V	
C955	1-123-356-00	ELECT	10MF	20%	50V	
C956	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C957	1-123-504-00	ELECT	100MF	20%	25V	
C958	1-123-356-00	ELECT	10MF	20%	25V	
C959	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C960	1-123-504-00	ELECT	100MF	20%	25V	
C961	1-123-499-00	ELECT	2200MF	20%	25V	
C962	1-123-493-00	ELECT	47MF	20%	25V	
C963	1-123-489-00	ELECT	2200MF	20%	16V	
C964	1-123-306-00	ELECT	47MF	20%	10V	
C965	1-161-379-00	CERAMIC	0.01MF	20%	25V	

NOTE:

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- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C966	1-123-479-00	ELECT	2200MF	20%	10V
C991	1-124-346-00	ELECT	6800MF	20%	25V
C992	1-124-346-00	ELECT	6800MF	20%	25V
CNJ501	1-507-726-00	JACK, PIN 2P			
CNJ502	1-507-726-00	JACK, PIN 2P			
CNJ503	1-507-726-00	JACK, PIN 2P			
CNJ504	1-507-649-00	JACK			
◆ CNJ601	1-560-061-41	PIN, CONNECTOR 3P			
◆ CNJ602	1-560-066-00	PIN, CONNECTOR 10P			
◆ CNJ701	1-560-061-00	PIN, CONNECTOR 3P			
◆ CNJ702	1-560-066-00	PIN, CONNECTOR 10P			
◆ CNP801	1-560-061-41	PIN, CONNECTOR 3P			
◆ CNP802	1-560-338-00	PIN, CONNECTOR 7P			
◆ CNP803	1-560-061-21	PIN, CONNECTOR 3P			
◆ CNP804	1-560-060-00	PIN, CONNECTOR 2P			
◆ CNP805	1-560-060-00	PIN, CONNECTOR 2P			
◆ CNP806	1-560-060-00	PIN, CONNECTOR 2P			
◆ CNP807	1-560-064-41	PIN, CONNECTOR 6P			
◆ CNP808	1-560-062-00	PIN, CONNECTOR 4P			
◆ CNP809	1-560-062-41	PIN, CONNECTOR 4P			
◆ CNP810	1-560-065-00	PIN, CONNECTOR 8P			
◆ CNP811	1-560-063-00	PIN, CONNECTOR 5P			
◆ CNP812	1-560-064-00	PIN, CONNECTOR 6P			
◆ CNP951	1-560-061-00	PIN, CONNECTOR 3P			
◆ CNP952	1-560-060-41	PIN, CONNECTOR 2P			
◆ CNP991	1-560-060-00	PIN, CONNECTOR 2P			
◆ CNP992	1-560-061-31	PIN, CONNECTOR 3P			
CP901	1-464-239-00	OSCILLATION UNIT, BIAS			
CP951	1-161-744-00	CERAMIC	0.01MF	400V	
CT101	1-141-069-XX	CAP, TRIMMER, (PRINT TYPE)			
CT301	1-141-069-XX	CAP, TRIMMER, (PRINT TYPE)			
D01	8-719-910-29	DIODE HZ12C3L			
D02	8-719-815-55	DIODE 1S1555			
D03	8-719-815-55	DIODE 1S1555			
D04	8-719-910-64	DIODE HZ6B1L			
D05	8-719-910-29	DIODE HZ12C3L			
D06	8-719-910-29	DIODE HZ12C3L			
D101	8-719-201-11	DIODE 10Y61.1			
D102	8-719-910-64	DIODE HZ6B1L			
D103	8-719-815-55	DIODE 1S1555			
D104	8-719-815-55	DIODE 1S1555			
D105	8-719-815-55	DIODE 1S1555			
D106	8-719-815-55	DIODE 1S1555			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D107	8-719-815-55	DIODE 1S1555
D108	8-719-815-55	DIODE 1S1555
D109	8-719-815-55	DIODE 1S1555
D110	8-719-815-55	DIODE 1S1555
D111	8-719-815-55	DIODE 1S1555
D301	8-719-201-11	DIODE 10Y61.1
D302	8-719-910-64	DIODE HZ6B1L
D303	8-719-815-55	DIODE 1S1555
D304	8-719-815-55	DIODE 1S1555
D305	8-719-815-55	DIODE 1S1555
D306	8-719-815-55	DIODE 1S1555
D307	8-719-815-55	DIODE 1S1555
D308	8-719-815-55	DIODE 1S1555
D309	8-719-815-55	DIODE 1S1555
D310	8-719-815-55	DIODE 1S1555
D311	8-719-815-55	DIODE 1S1555
D501	8-719-201-11	DIODE 10Y61.1
D502	8-719-910-64	DIODE HZ6B1L
D503	8-719-201-11	DIODE 10Y61.1
D504	8-719-910-64	DIODE HZ6B1L
D505	8-719-815-55	DIODE 1S1555
D506	8-719-815-55	DIODE 1S1555
D507	8-719-815-55	DIODE 1S1555
D508	8-719-815-55	DIODE 1S1555
D509	8-719-815-55	DIODE 1S1555
D510	8-719-815-55	DIODE 1S1555
D511	8-719-815-55	DIODE 1S1555
D512	8-719-815-55	DIODE 1S1555
D513	8-719-815-55	DIODE 1S1555
D514	8-719-815-55	DIODE 1S1555
D515	8-719-815-55	DIODE 1S1555
D516	8-719-815-55	DIODE 1S1555
D517	8-719-815-55	DIODE 1S1555
D518	8-719-815-55	DIODE 1S1555
D519	8-719-815-55	DIODE 1S1555
D522	8-719-815-55	DIODE 1S1555
D523	8-719-815-55	DIODE 1S1555
D524	8-719-815-55	DIODE 1S1555
D525	8-719-815-55	DIODE 1S1555
D526	8-719-815-55	DIODE 1S1555
D527	8-719-815-55	DIODE 1S1555
D528	8-719-815-55	DIODE 1S1555
D529	8-719-815-55	DIODE 1S1555
D530	8-719-815-55	DIODE 1S1555
D531	8-719-815-55	DIODE 1S1555

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA... : μA..., UPA... : μPA..., UPC... : μPC, UPD... : μPD...

TC-K777ES TC-K777ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D532	8-719-815-55	DIODE 1S1555
D533	8-719-815-55	DIODE 1S1555
D534	8-719-815-55	DIODE 1S1555
D535	8-719-815-55	DIODE 1S1555
D536	8-719-815-55	DIODE 1S1555
D537	8-719-910-02	DIODE HZ20-2L
D538	8-719-910-64	DIODE HZ6B1L
D539	8-719-815-55	DIODE 1S1555
D540	8-719-815-55	DIODE 1S1555
D541	8-719-815-55	DIODE 1S1555
D542	8-719-815-55	DIODE 1S1555
D543	8-719-815-55	DIODE 1S1555
D544	8-719-815-55	DIODE 1S1555
D545	8-719-910-02	DIODE HZ20-2L
D546	8-719-910-02	DIODE HZ20-2L
D547	8-719-910-02	DIODE HZ20-2L
D548	8-719-910-02	DIODE HZ20-2L
D601	8-719-815-55	DIODE 1S1555
D602	8-719-815-55	DIODE 1S1555
D701	8-719-815-55	DIODE 1S1555
D702	8-719-815-55	DIODE 1S1555
D703	8-719-815-55	DIODE 1S1555
D704	8-719-815-55	DIODE 1S1555
D705	8-719-815-55	DIODE 1S1555
D706	8-719-815-55	DIODE 1S1555
D707	8-719-910-64	DIODE HZ6B1L
D751	8-719-910-64	DIODE HZ6B1L
D801	8-719-815-55	DIODE 1S1555
D802	8-719-910-25	DIODE HZ12B1L
D803	8-719-815-55	DIODE 1S1555
D804	8-719-910-25	DIODE HZ12B1L
D805	8-719-200-02	DIODE 10E-2
D806	8-719-200-02	DIODE 10E-2
D807	8-719-200-02	DIODE 10E-2
D808	8-719-815-55	DIODE 1S1555
D809	8-719-815-55	DIODE 1S1555
D810	8-719-815-55	DIODE 1S1555
D811	8-719-815-55	DIODE 1S1555
D812	8-719-910-25	DIODE HZ12B1L
D813	8-719-910-53	DIODE HZ15-3L
D814	8-719-910-25	DIODE HZ12B1L
D815	8-719-910-25	DIODE HZ12B1L
D816	8-719-910-25	DIODE HZ12B1L
D817	8-719-200-02	DIODE 10E-2
D818	8-719-815-55	DIODE 1S1555

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D819	8-719-815-55	DIODE 1S1555
D820	8-719-815-55	DIODE 1S1555
D851	8-719-955-25	DIODE PY5525S
D852	8-719-952-52	DIODE PG5525SX
D853	8-719-955-25	DIODE PY5525S
D854	8-719-952-53	DIODE BR5525S
D855	8-719-952-51	DIODE AA5525S
D951	8-719-200-02	DIODE 10E-2
D952	8-719-200-02	DIODE 10E-2
D953	8-719-200-02	DIODE 10E-2
D954	8-719-200-02	DIODE 10E-2
D955	8-719-200-02	DIODE 10E-2
D956	8-719-200-02	DIODE 10E-2
D957	8-719-200-02	DIODE 10E-2
D958	8-719-200-02	DIODE 10E-2
D959	8-719-200-02	DIODE 10E-2
D960	8-719-910-29	DIODE HZ12C3L
D961	8-719-922-71	DIODE HZ27-1L
D962	8-719-910-64	DIODE HZ6B1L
D963	8-719-910-64	DIODE HZ6B1L
D964	8-719-990-00	DIODE HZ12A1L
D991	8-719-230-02	DIODE 30DF2-FA
D992	8-719-230-02	DIODE 30DF2-FA
D993	8-719-230-02	DIODE 30DF2-FA
D994	8-719-230-02	DIODE 30DF2-FA
D995	8-719-931-06	DIODE EQ801-06
F1	A-1-532-203-00	FUSE, TIME-LAG
F2	A-1-532-203-00	FUSE, TIME-LAG
F3	A-1-532-203-00	FUSE, TIME-LAG
F4	A-1-532-203-00	FUSE, TIME-LAG
HE	8-825-535-30	HEAD, ERASE (ES237-36A)
HRP	8-825-500-40	HEAD, REC /PB
IC01	8-759-150-47	IC UPD550C-047
IC02	8-759-993-57	IC MSL9357RS
IC03	8-759-993-58	IC MSL9358RS
IC101	8-759-905-42	IC NE5534P
IC102	8-759-900-72	IC NE5532P
IC103	8-759-900-72	IC NE5532P
IC104	8-752-008-80	IC CX20088
IC105	8-752-008-70	IC CX20087
IC106	8-759-145-58	IC UPC4558C
IC301	8-759-905-42	IC NE5534P
IC302	8-759-900-72	IC NE5532P
IC303	8-759-900-72	IC NE5532P

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC304	8-752-008-70	IC CX20087
IC305	8-752-008-80	IC CX20088
IC306	8-759-145-58	IC UPC4558C
IC501	8-759-145-58	IC UPC4558C
IC502	8-759-145-58	IC UPC4558C
IC503	8-759-900-72	IC NE5532P
IC504	8-759-745-60	IC NJM4560D
IC505	8-759-145-58	IC UPC4558C
IC506	8-759-745-60	IC NJM4560D
IC601	8-759-145-58	IC UPC4558C
IC602	8-759-108-05	IC UPC78L05A
IC603	8-751-930-00	IC CX-193
IC604	8-759-145-58	IC UPC4558C
IC605	8-759-145-58	IC UPC4558C
IC701	8-759-145-58	IC UPC4558C
IC702	8-759-145-58	IC UPC4558C
IC703	8-759-145-58	IC UPC4558C
IC801	8-759-170-93	IC UPD547C-093
IC802	8-759-145-58	IC UPC4558C
IC803	8-759-145-58	IC UPC4558C
IC804	8-759-984-69	IC MB884069UB
IC805	8-759-133-90	IC UPC339C
IC806	8-759-145-58	IC UPC4558C
L01	1-408-096-00	MICRO INDUCTOR 470UH
L101	1-407-240-00	MICRO INDUCTOR 22MMH
L102	1-408-259-00	MICRO INDUCTOR 15MMH
L103	1-408-261-00	MICRO INDUCTOR 22MMH
L104	1-408-262-00	MICRO INDUCTOR 27MMH
L105	1-407-240-00	MICRO INDUCTOR 22MMH
L106	1-408-261-00	MICRO INDUCTOR 22MMH
L107	1-408-254-21	MICRO INDUCTOR 5.6MMH
L108	1-408-250-21	MICRO INDUCTOR 2.7MMH
L109	1-408-685-00	MICRO INDUCTOR 1.8MMH
L110	1-408-249-21	MICRO INDUCTOR 2.2MMH
L301	1-407-240-00	MICRO INDUCTOR 22MMH
L302	1-408-259-00	MICRO INDUCTOR 15MMH
L303	1-408-261-00	MICRO INDUCTOR 22MMH
L304	1-408-262-00	MICRO INDUCTOR 27MMH
L305	1-407-240-00	MICRO INDUCTOR 22MMH
L306	1-408-261-00	MICRO INDUCTOR 22MMH
L307	1-408-251-21	MICRO INDUCTOR 3.3MMH
L308	1-408-250-21	MICRO INDUCTOR 2.7MMH
L309	1-408-685-00	MICRO INDUCTOR 1.8MMH
L310	1-408-249-21	MICRO INDUCTOR 2.2MMH
L801	1-408-096-00	MICRO INDUCTOR 470UH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
PL101	1-518-386-00	LAMP, PILOT
PL301	1-518-386-00	LAMP, PILOT
PL901	1-518-306-00	LAMP, PILOT
PM1	1-454-270-00	SOLENOID, PLUNGER
PM2	1-454-271-00	SOLENOID, PLUNGER
PM3	1-454-345-00	SOLENOID, PLUNGER
PT901	1-447-082-00	TRANSFORMER, POWER
Q01	8-729-902-11	TRANSISTOR 2SC2021
Q02	8-729-902-11	TRANSISTOR 2SC2021
Q03	8-729-101-31	TRANSISTOR N13T1
Q04	8-729-902-11	TRANSISTOR 2SC2021
Q05	8-729-993-72	TRANSISTOR 2SA937
Q06	8-729-902-11	TRANSISTOR 2SC2021
Q07	8-729-993-72	TRANSISTOR 2SA937
Q101	8-765-660-10	TRANSISTOR 2SK245
Q102	8-765-450-20	TRANSISTOR 2SK125
Q103	8-765-450-20	TRANSISTOR 2SK125
Q104	8-729-300-62	TRANSISTOR 2SD666A
Q105	8-729-113-82	TRANSISTOR 2SA1138
Q106	8-729-113-82	TRANSISTOR 2SA1138
Q107	8-729-167-62	TRANSISTOR 2SC2676
Q108	8-729-167-62	TRANSISTOR 2SC2676
Q109	8-729-300-62	TRANSISTOR 2SD666A
Q110	8-729-304-62	TRANSISTOR 2SB646A
Q111	8-729-663-47	TRANSISTOR 2SC1364
Q112	8-729-663-47	TRANSISTOR 2SC1364
Q113	8-729-663-47	TRANSISTOR 2SC1364
Q301	8-765-660-10	TRANSISTOR 2SK245
Q302	8-765-450-20	TRANSISTOR 2SK125
Q303	8-765-450-20	TRANSISTOR 2SK125
Q304	8-729-300-62	TRANSISTOR 2SD666A
Q305	8-729-113-82	TRANSISTOR 2SA1138
Q306	8-729-113-82	TRANSISTOR 2SA1138
Q307	8-729-167-62	TRANSISTOR 2SC2676
Q308	8-729-167-62	TRANSISTOR 2SC2676
Q309	8-729-300-62	TRANSISTOR 2SD666A
Q310	8-729-304-62	TRANSISTOR 2SB646A
Q311	8-729-663-47	TRANSISTOR 2SC1364
Q312	8-729-663-47	TRANSISTOR 2SC1364
Q313	8-729-663-47	TRANSISTOR 2SC1364
Q501	8-729-113-82	TRANSISTOR 2SA1138
Q502	8-729-167-62	TRANSISTOR 2SC2676
Q503	8-729-167-62	TRANSISTOR 2SC2676
Q504	8-729-141-43	TRANSISTOR 2SD414
Q505	8-729-167-62	TRANSISTOR 2SC2676
Q506	8-729-113-82	TRANSISTOR 2SA1138

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

TC-K777ES TC-K777ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q507	8-729-113-82	TRANSISTOR 2SA1138
Q508	8-729-154-83	TRANSISTOR 2SB548-Q
Q509	8-729-663-47	TRANSISTOR 2SC1364
Q510	8-729-201-52	TRANSISTOR 2SA1015
Q511	8-729-663-47	TRANSISTOR 2SC1364
Q512	8-729-663-47	TRANSISTOR 2SC1364
Q513	8-729-663-47	TRANSISTOR 2SC1364
Q514	8-729-663-47	TRANSISTOR 2SC1364
Q515	8-729-663-47	TRANSISTOR 2SC1364
Q516	8-729-663-47	TRANSISTOR 2SC1364
Q517	8-729-663-47	TRANSISTOR 2SC1364
Q518	8-729-663-47	TRANSISTOR 2SC1364
Q519	8-729-663-47	TRANSISTOR 2SC1364
Q520	8-729-663-47	TRANSISTOR 2SC1364
Q521	8-729-663-47	TRANSISTOR 2SC1364
Q522	8-729-663-47	TRANSISTOR 2SC1364
Q523	8-729-201-52	TRANSISTOR 2SA1015
Q524	8-729-201-52	TRANSISTOR 2SA1015
Q525	8-729-201-52	TRANSISTOR 2SA1015
Q526	8-729-663-47	TRANSISTOR 2SC1364
Q527	8-729-663-47	TRANSISTOR 2SC1364
Q528	8-729-663-47	TRANSISTOR 2SC1364
Q529	8-729-663-47	TRANSISTOR 2SC1364
Q530	8-729-663-47	TRANSISTOR 2SC1364
Q601	8-729-663-48	TRANSISTOR 2SC1364-8
Q602	8-729-663-48	TRANSISTOR 2SC1364-8
Q603	8-729-180-93	TRANSISTOR 2SD809
Q604	8-729-173-13	TRANSISTOR 2SB731
Q605	8-729-180-93	TRANSISTOR 2SD809
Q606	8-729-173-13	TRANSISTOR 2SB731
Q701	8-729-663-48	TRANSISTOR 2SC1364-8
Q702	8-729-602-68	TRANSISTOR 2SA1026-8
Q703	8-729-663-48	TRANSISTOR 2SC1364-8
Q704	8-729-663-48	TRANSISTOR 2SC1364-8
Q705	8-729-663-48	TRANSISTOR 2SC1364-8
Q706	8-729-663-48	TRANSISTOR 2SC1364-8
Q707	8-729-180-93	TRANSISTOR 2SD809
Q708	8-729-173-13	TRANSISTOR 2SB731
Q709	8-729-180-93	TRANSISTOR 2SD809
Q710	8-729-173-13	TRANSISTOR 2SB731
Q751	8-729-180-93	TRANSISTOR 2SD809
Q752	8-729-663-48	TRANSISTOR 2SC1364-8
Q753	8-729-173-13	TRANSISTOR 2SB731
Q754	8-729-602-68	TRANSISTOR 2SA1026-8
Q801	8-729-663-47	TRANSISTOR 2SC1364

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q802	8-729-663-47	TRANSISTOR 2SC1364
Q803	8-729-663-47	TRANSISTOR 2SC1364
Q804	8-729-663-47	TRANSISTOR 2SC1364
Q805	8-729-663-47	TRANSISTOR 2SC1364
Q806	8-729-663-47	TRANSISTOR 2SC1364
Q807	8-729-663-47	TRANSISTOR 2SC1364
Q808	8-729-177-43	TRANSISTOR 2SD774
Q809	8-729-177-43	TRANSISTOR 2SD774
Q810	8-729-177-43	TRANSISTOR 2SD774
Q811	8-729-283-42	TRANSISTOR 2SB834
Q812	8-729-663-47	TRANSISTOR 2SC1364
Q813	8-729-663-47	TRANSISTOR 2SC1364
Q814	8-729-663-47	TRANSISTOR 2SC1364
Q815	8-729-663-47	TRANSISTOR 2SC1364
Q816	8-729-663-47	TRANSISTOR 2SC1364
Q817	8-729-663-47	TRANSISTOR 2SC1364
Q951	8-729-288-02	TRANSISTOR 2SD880
Q952	8-729-663-47	TRANSISTOR 2SC1364
Q953	8-729-663-47	TRANSISTOR 2SC1364
Q954	8-729-288-02	TRANSISTOR 2SD880
Q955	8-729-663-47	TRANSISTOR 2SC1364
Q956	8-729-288-02	TRANSISTOR 2SD880
Q957	8-729-288-02	TRANSISTOR 2SD880
Q958	8-729-663-47	TRANSISTOR 2SC1364
Q959	8-729-663-47	TRANSISTOR 2SC1364
Q960	8-729-288-02	TRANSISTOR 2SD880
Q961	8-729-663-47	TRANSISTOR 2SC1364
R01	1-247-863-00	CARBON 22K 5% 1/6W
R02	1-247-863-00	CARBON 22K 5% 1/6W
R03	1-247-871-00	CARBON 47K 5% 1/6W
R04	1-247-863-00	CARBON 22K 5% 1/6W
R05	1-247-881-00	CARBON 120K 5% 1/6W
R06	1-247-845-00	CARBON 3.9K 5% 1/6W
R07	1-247-815-00	CARBON 220 5% 1/6W
R08	1-247-855-00	CARBON 10K 5% 1/6W
R09	1-247-853-00	CARBON 8.2K 5% 1/6W
R10	1-247-879-00	CARBON 100K 5% 1/6W
R11	1-247-847-00	CARBON 4.7K 5% 1/6W
R12	1-247-855-00	CARBON 10K 5% 1/6W
R13	1-247-863-00	CARBON 22K 5% 1/6W
R14	1-247-847-00	CARBON 4.7K 5% 1/6W
R15	1-247-855-00	CARBON 10K 5% 1/6W
R16	1-247-863-00	CARBON 22K 5% 1/6W
R17	1-247-875-00	CARBON 68K 5% 1/6W
R18	1-247-875-00	CARBON 68K 5% 1/6W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,
 UPD... : μ PD...

CAPACITORS:

All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μ H

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " Δ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -XX or Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -X) may be different from those used in the set.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R19	1-246-451-00	CARBON 120 5% 1/4W
R20	1-246-451-00	CARBON 120 5% 1/4W
R21	1-247-875-00	CARBON 68K 5% 1/6W
R22	1-247-875-00	CARBON 68K 5% 1/6W
R23	1-247-875-00	CARBON 68K 5% 1/6W
R101	1-214-913-00	METAL 100K 1% 1/2W
R102	1-214-726-00	METAL 750 1% 1/4W
R103	1-214-726-00	METAL 750 1% 1/4W
R104	1-214-096-00	METAL 33 1% 1/4W
R105	1-214-096-00	METAL 33 1% 1/4W
R106	1-214-723-00	METAL 560 1% 1/4W
R109	1-214-842-00	METAL 120 1% 1/2W
R110	1-214-915-00	METAL 120K 1% 1/2W
R111	1-214-879-00	METAL 4.3K 1% 1/2W
R112	1-214-882-00	METAL 5.6K 1% 1/2W
R113	1-214-739-00	METAL 2.7K 1% 1/4W
R114	1-214-757-00	METAL 15K 1% 1/4W
R115	1-214-740-00	METAL 3K 1% 1/4W
R116	1-214-745-00	METAL 4.7K 1% 1/4W
R117	1-214-745-00	METAL 4.7K 1% 1/4W
R118	1-214-697-00	METAL 47 1% 1/4W
R119	1-214-697-00	METAL 47 1% 1/4W
R120	1-214-705-00	METAL 100 1% 1/4W
R121	1-214-735-00	METAL 1K 1% 1/4W
R122	1-214-705-00	METAL 100 1% 1/4W
R123	1-214-858-00	METAL 560 1% 1/2W
R124	1-214-893-00	METAL 16K 1% 1/2W
R125	1-214-697-00	METAL 47 1% 1/4W
R126	1-214-769-00	METAL 47K 1% 1/4W
R127	1-214-868-00	METAL 1.5K 1% 1/2W
R128	1-214-868-00	METAL 1.5K 1% 1/2W
R129	1-214-901-00	METAL 33K 1% 1/2W
R130	1-214-885-00	METAL 7.5K 1% 1/2W
R131	1-214-777-00	METAL 100K 1% 1/4W
R132	1-214-856-00	METAL 470 1% 1/2W
R133	1-214-888-00	METAL 10K 1% 1/2W
R134	1-214-697-00	METAL 47 1% 1/4W
R135	1-247-863-00	CARBON 22K 5% 1/6W
R136	1-214-733-00	METAL 1.5K 1% 1/4W
R137	1-214-777-00	METAL 100K 1% 1/4W
R138	1-214-890-00	METAL 12K 1% 1/2W
R139	1-214-899-00	METAL 27K 1% 1/2W
R140	1-214-761-00	METAL 22K 1% 1/4W
R141	1-214-737-00	METAL 2.2K 1% 1/4W
R142	1-214-705-00	METAL 100 1% 1/4W

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " Δ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -XX or Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -X) may be different from those used in the set.

CAPACITORS:

All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R143	1-214-881-00	METAL 5.1K 1% 1/2W
R144	1-214-743-00	METAL 3.9K 1% 1/4W
R145	1-214-777-00	METAL 100K 1% 1/4W
R146	1-214-882-00	METAL 7.5K 1% 1/2W
R147	1-214-894-00	METAL 18K 1% 1/2W
R148	1-214-874-00	METAL 2.7K 1% 1/2W
R149	1-246-513-00	CARBON 47K 5% 1/4W
R150	1-246-433-00	CARBON 22 5% 1/4W
R151	1-246-465-00	CARBON 470 5% 1/4W
R152	1-246-457-00	CARBON 220 5% 1/4W
R153	1-214-761-00	METAL 22K 1% 1/4W
R154	1-214-761-00	METAL 22K 1% 1/4W
R155	1-246-521-00	CARBON 100K 5% 1/4W
R156	1-246-457-00	CARBON 220 5% 1/4W
R157	1-246-505-00	CARBON 22K 5% 1/4W
R159	1-246-487-00	CARBON 3.9K 5% 1/4W
R160	1-246-467-00	CARBON 560 5% 1/4W
R171	1-214-705-00	METAL 100 1% 1/4W
R172	1-214-777-00	METAL 100K 1% 1/4W
R173	1-214-863-00	METAL 910 1% 1/2W
R174	1-214-889-00	METAL 11K 1% 1/2W
R175	1-214-744-00	METAL 4.3K 1% 1/4W
R176	1-214-741-00	METAL 3.3K 1% 1/4W
R177	1-214-956-00	METAL 470K 1% 1/4W
R178	1-214-723-00	METAL 560 1% 1/4W
R179	1-214-776-00	METAL 91K 1% 1/4W
R180	1-214-736-00	METAL 2K 1% 1/4W
R181	1-214-769-00	METAL 47K 1% 1/4W
R182	1-214-746-00	METAL 5.1K 1% 1/4W
R183	1-214-786-00	METAL 240K 1% 1/4W
R184	1-214-783-00	METAL 180K 1% 1/4W
R185	1-214-743-00	METAL 3.9K 1% 1/4W
R186	1-214-786-00	METAL 240K 1% 1/4W
R187	1-214-783-00	METAL 180K 1% 1/4W
R188	1-214-718-00	METAL 360 1% 1/4W
R189	1-214-743-00	METAL 3.9K 1% 1/4W
R190	1-214-705-00	METAL 100 1% 1/4W
R191	1-214-769-00	METAL 47K 1% 1/4W
R192	1-214-705-00	METAL 100 1% 1/4W
R193	1-214-749-00	METAL 6.8K 1% 1/4W
R194	1-214-741-00	METAL 3.3K 1% 1/4W
R195	1-214-741-00	METAL 3.3K 1% 1/4W
R196	1-214-777-00	METAL 100K 1% 1/4W
R197	1-214-749-00	METAL 6.8K 1% 1/4W
R198	1-214-705-00	METAL 100 1% 1/4W

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,
 UPD... : μ PD...

ELECTRICAL PARTS

Table with 3 columns: Ref.No., Part No., Description. Lists electrical components like METAL, CARBON with values such as 47K 1% 1/4W.

ELECTRICAL PARTS

Table with 3 columns: Ref.No., Part No., Description. Lists electrical components like METAL, CARBON with values such as 1.2K 1% 1/4W.

ELECTRICAL PARTS

Table with 3 columns: Ref.No., Part No., Description. Lists electrical components like CARBON, METAL with values such as 18K 5% 1/4W.

ELECTRICAL PARTS

Table with 3 columns: Ref.No., Part No., Description. Lists electrical components like CARBON, METAL with values such as 68K 5% 1/6W.

NOTE: Items with no part number and no description are not stocked because they are seldom required for routine service.

CAPACITORS: All capacitors are in uF. Common capacitors are omitted. Refer to the following lists for their part numbers.

RESISTORS: All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted.

COILS: MMH : mH, UH : uH

The components identified by shading and mark are critical for safety. Replace only with part number specified.

SEMICONDUCTORS: In each case, U : u, for example: UA...: uA...; UPA...: uPA...; UPC...: uPC...

NOTE: Items with no part number and no description are not stocked because they are seldom required for routine service.

CAPACITORS: All capacitors are in uF. Common capacitors are omitted. Refer to the following lists for their part numbers.

RESISTORS: All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted.

COILS: MMH : mH, UH : uH

The components identified by shading and mark are critical for safety. Replace only with part number specified.

SEMICONDUCTORS: In each case, U : u, for example: UA...: uA...; UPA...: uPA...; UPC...: uPC...

TC-K777ES TC-K777ES

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R626	1-246-473-00	CARBON	1K	5%	1/4W
R627	1-246-505-00	CARBON	22K	5%	1/4W
R628	1-246-473-00	CARBON	1K	5%	1/4W
R629	1-246-505-00	CARBON	22K	5%	1/4W
R630	1-246-505-00	CARBON	22K	5%	1/4W
R631	1-246-449-00	CARBON	100	5%	1/4W
R632	1-246-469-00	CARBON	680	5%	1/4W
R633	1-246-469-00	CARBON	680	5%	1/4W
R634	1-246-539-00	CARBON	560K	5%	1/4W
R635	1-246-521-00	CARBON	100K	5%	1/4W
R636	1-246-449-00	CARBON	100	5%	1/4W
R637	1-246-473-00	CARBON	1K	5%	1/4W
R638	1-246-505-00	CARBON	22K	5%	1/4W
R639	1-246-505-00	CARBON	22K	5%	1/4W
R640	1-246-449-00	CARBON	100	5%	1/4W
R641	1-246-469-00	CARBON	680	5%	1/4W
R642	1-246-469-00	CARBON	680	5%	1/4W
R643	1-246-539-00	CARBON	560K	5%	1/4W
R644	1-246-521-00	CARBON	100K	5%	1/4W
R645	1-246-449-00	CARBON	100	5%	1/4W
R701	1-246-497-00	CARBON	10K	5%	1/4W
R702	1-246-497-00	CARBON	10K	5%	1/4W
R703	1-246-473-00	CARBON	1K	5%	1/4W
R704	1-246-497-00	CARBON	10K	5%	1/4W
R705	1-246-497-00	CARBON	10K	5%	1/4W
R706	1-246-497-00	CARBON	10K	5%	1/4W
R707	1-246-497-00	CARBON	10K	5%	1/4W
R708	1-246-497-00	CARBON	10K	5%	1/4W
R709	1-246-497-00	CARBON	10K	5%	1/4W
R710	1-246-497-00	CARBON	10K	5%	1/4W
R711	1-246-473-00	CARBON	1K	5%	1/4W
R712	1-246-497-00	CARBON	10K	5%	1/4W
R713	1-246-489-00	CARBON	4.7K	5%	1/4W
R714	1-246-459-00	CARBON	270	5%	1/4W
R715	1-246-473-00	CARBON	1K	5%	1/4W
R716	1-246-497-00	CARBON	10K	5%	1/4W
R717	1-246-497-00	CARBON	10K	5%	1/4W
R718	1-246-485-00	CARBON	3.3K	5%	1/4W
R719	1-246-497-00	CARBON	10K	5%	1/4W
R720	1-246-469-00	CARBON	680	5%	1/4W
R721	1-246-469-00	CARBON	680	5%	1/4W
R722	1-246-505-00	CARBON	22K	5%	1/4W
R723	1-246-525-00	CARBON	150K	5%	1/4W
R724	1-246-497-00	CARBON	10K	5%	1/4W
R725	1-246-517-00	CARBON	68K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R726	1-246-505-00	CARBON	22K	5%	1/4W
R727	1-246-473-00	CARBON	1K	5%	1/4W
R728	1-246-517-00	CARBON	68K	5%	1/4W
R729	1-246-539-00	CARBON	560K	5%	1/4W
R730	1-246-525-00	CARBON	150K	5%	1/4W
R731	1-246-469-00	CARBON	680	5%	1/4W
R732	1-246-449-00	CARBON	100	5%	1/4W
R733	1-246-505-00	CARBON	22K	5%	1/4W
R734	1-246-469-00	CARBON	680	5%	1/4W
R735	1-246-469-00	CARBON	680	5%	1/4W
R736	1-246-525-00	CARBON	150K	5%	1/4W
R737	1-246-497-00	CARBON	10K	5%	1/4W
R738	1-246-517-00	CARBON	68K	5%	1/4W
R739	1-246-505-00	CARBON	22K	5%	1/4W
R740	1-246-473-00	CARBON	1K	5%	1/4W
R741	1-246-517-00	CARBON	68K	5%	1/4W
R742	1-246-539-00	CARBON	560K	5%	1/4W
R743	1-246-525-00	CARBON	150K	5%	1/4W
R744	1-246-469-00	CARBON	680	5%	1/4W
R745	1-246-449-00	CARBON	100	5%	1/4W
R746	1-246-505-00	CARBON	22K	5%	1/4W
R751	1-246-493-00	CARBON	6.8K	5%	1/4W
R752	1-246-489-00	CARBON	4.7K	5%	1/4W
R753	1-246-493-00	CARBON	6.8K	5%	1/4W
R754	1-246-497-00	CARBON	10K	5%	1/4W
R755	1-246-483-00	CARBON	2.7K	5%	1/4W
R756	1-246-477-00	CARBON	1.5K	5%	1/4W
R757	1-246-492-00	CARBON	6.2K	5%	1/4W
R758	1-246-477-00	CARBON	1.5K	5%	1/4W
R759	1-246-483-00	CARBON	2.7K	5%	1/4W
R760	1-123-134-00	META. OXIDE	180	5%	1/4W
R761	1-246-527-00	CARBON	180K	5%	1/4W
R762	1-246-527-00	CARBON	180K	5%	1/4W
R801	1-246-469-00	CARBON	680	5%	1/4W
R802	1-246-469-00	CARBON	680	5%	1/4W
R803	1-246-521-00	CARBON	100K	5%	1/4W
R804	1-246-537-00	CARBON	470K	5%	1/4W
R805	1-246-513-00	CARBON	47K	5%	1/4W
R806	1-246-481-00	CARBON	2.2K	5%	1/4W
R807	1-246-521-00	CARBON	100K	5%	1/4W
R808	1-246-521-00	CARBON	100K	5%	1/4W
R809	1-246-505-00	CARBON	22K	5%	1/4W
R810	1-246-481-00	CARBON	2.2K	5%	1/4W
R811	1-246-471-00	CARBON	820	5%	1/4W
R812	1-246-469-00	CARBON	680	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R813	1-246-469-00	CARBON	680	5%	1/4W
R814	1-246-521-00	CARBON	100K	5%	1/4W
R815	1-246-537-00	CARBON	470K	5%	1/4W
R816	1-246-513-00	CARBON	47K	5%	1/4W
R817	1-246-481-00	CARBON	2.2K	5%	1/4W
R818	1-246-521-00	CARBON	100K	5%	1/4W
R819	1-246-521-00	CARBON	100K	5%	1/4W
R820	1-246-505-00	CARBON	22K	5%	1/4W
R821	1-246-481-00	CARBON	2.2K	5%	1/4W
R822	1-246-523-00	CARBON	120K	5%	1/4W
R823	1-246-523-00	CARBON	120K	5%	1/4W
R824	1-246-543-00	CARBON	820K	5%	1/4W
R825	1-246-497-00	CARBON	10K	5%	1/4W
R826	1-246-517-00	CARBON	68K	5%	1/4W
R827	1-246-509-00	CARBON	33K	5%	1/4W
R828	1-246-514-00	CARBON	51K	5%	1/4W
R829	1-246-505-00	CARBON	22K	5%	1/4W
R830	1-246-505-00	CARBON	22K	5%	1/4W
R831	1-246-517-00	CARBON	68K	5%	1/4W
R832	1-246-509-00	CARBON	33K	5%	1/4W
R833	1-246-505-00	CARBON	22K	5%	1/4W
R834	1-246-497-00	CARBON	10K	5%	1/4W
R835	1-246-505-00	CARBON	22K	5%	1/4W
R836	1-246-509-00	CARBON	33K	5%	1/4W
R837	1-246-517-00	CARBON	68K	5%	1/4W
R838	1-246-505-00	CARBON	22K	5%	1/4W
R839	1-246-509-00	CARBON	33K	5%	1/4W
R840	1-246-517-00	CARBON	68K	5%	1/4W
R841	1-246-505-00	CARBON	22K	5%	1/4W
R842	1-246-509-00	CARBON	33K	5%	1/4W
R843	1-246-517-00	CARBON	68K	5%	1/4W
R844	1-246-481-00	CARBON	2.2K	5%	1/4W
R845	1-246-485-00	CARBON	3.3K	5%	1/4W
R846	1-246-481-00	CARBON	2.2K	5%	1/4W
R847	1-246-485-00	CARBON	3.3K	5%	1/4W
R848	1-246-481-00	CARBON	2.2K	5%	1/4W
R849	1-246-485-00	CARBON	3.3K	5%	1/4W
R850	1-246-517-00	CARBON	68K	5%	1/4W
R851	1-246-509-00	CARBON	33K	5%	1/4W
R852	1-246-473-00	CARBON	1K	5%	1/4W
R853	1-246-517-00	CARBON	68K	5%	1/4W
R854	1-246-509-00	CARBON	33K	5%	1/4W
R855	1-246-505-00	CARBON	22K	5%	1/4W
R856	1-246-505-00	CARBON	22K	5%	1/4W
R857	1-246-505-00	CARBON	22K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R858	1-246-497-00	CARBON	10K	5%	1/4W
R859	1-246-497-00	CARBON	10K	5%	1/4W
R860	1-246-510-00	CARBON	36K	5%	1/4W
R861	1-246-517-00	CARBON	68K	5%	1/4W
R862	1-246-499-00	CARBON	12K	5%	1/4W
R863	1-246-511-00	CARBON	39K	5%	1/4W
R864	1-246-489-00	CARBON	4.7K	5%	1/4W
R865	1-246-499-00	CARBON	12K	5%	1/4W
R866	1-246-515-00	CARBON	56K	5%	1/4W
R867	1-246-479-00	CARBON	1.8K	5%	1/4W
R868	1-246-473-00	CARBON	1K	5%	1/4W
R869	1-246-473-00	CARBON	1K	5%	1/4W
R870	1-246-521-00	CARBON	100K	5%	1/4W
R871	1-246-473-00	CARBON	1K	5%	1/4W
R872	1-246-497-00	CARBON	10K	5%	1/4W
R873	1-246-485-00	CARBON	3.3K	5%	1/4W
R874	1-246-508-00	CARBON	30K	5%	1/4W
R875	1-246-492-00	CARBON	6.2K	5%	1/4W
R876	1-246-502-00	CARBON	16K	5%	1/4W
R877	1-246-498-00	CARBON	11K	5%	1/4W
R878	1-246-497-00	CARBON	10K	5%	1/4W
R879	1-246-449-00	CARBON	100	5%	1/4W
R880	1-246-497-00	CARBON	10K	5%	1/4W
R881	1-246-521-00	CARBON	100K	5%	1/4W
R882	1-246-521-00	CARBON	100K	5%	1/4W
R883	1-246-521-00	CARBON	100K	5%	1/4W
R884	1-246-521-00	CARBON	100K	5%	1/4W
R885	1-246-465-00	CARBON	470	5%	1/4W
R886	1-246-505-00	CARBON	22K	5%	1/4W
R887	1-246-513-00	CARBON	47K	5%	1/4W
R888	1-246-461-00	CARBON	330	5%	1/4W
R889	1-246-505-00	CARBON	22K	5%	1/4W
R890	1-246-513-00	CARBON	47K	5%	1/4W
R891	1-246-465-00	CARBON	470	5%	1/4W
R892	1-246-505-00	CARBON	22K	5%	1/4W
R893	1-246-513-00	CARBON	47K	5%	1/4W
R894	1-246-470-00	CARBON	750	5%	1/4W
R895	1-246-505-00	CARBON	22K	5%	1/4W
R896	1-246-513-00	CARBON	47K	5%	1/4W
R897	1-246-465-00	CARBON	470	5%	1/4W
R898	1-246-505-00	CARBON	22K	5%	1/4W
R899	1-246-513-00	CARBON	47K	5%	1/4W
R951	1-246-493-00	CARBON	6.8K	5%	1/4W
R952	1-246-493-00	CARBON	6.8K	5%	1/4W
R953	1-246-505-00	CARBON	22K	5%	1/4W

NOTE:
 * Items with no part number and no description are not stocked because they are seldom required for routine service.
 * Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 * Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
 * All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μμF.

RESISTORS
 * All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

* F : nonflammable

COILS

* MMH : mH, UH : μH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ, for example:
 UA... : μA..., UPA... : μPA..., UPC... : μPC,
 UPD... : μPD...

NOTE:
 * Items with no part number and no description are not stocked because they are seldom required for routine service.
 * Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 * Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
 * All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μμ

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R954	1-246-498-00	CARBON	11K	5%	1/4W
R955	1-246-497-00	CARBON	10K	5%	1/4W
R956	1-246-520-00	CARBON	91K	5%	1/4W
R957A	1-213-076-00	FUSIBLE	47	5%	1W F
R958	1-246-489-00	CARBON	4.7K	5%	1/4W
R959	1-246-481-00	CARBON	2.2K	5%	1/4W
R960	1-246-489-00	CARBON	4.7K	5%	1/4W
R961	1-246-489-00	CARBON	4.7K	5%	1/4W
R962	1-246-497-00	CARBON	10K	5%	1/4W
R963	1-246-491-00	CARBON	5.6K	5%	1/4W
R964	1-246-490-00	CARBON	5.1K	5%	1/4W
R965	1-246-481-00	CARBON	2.2K	5%	1/4W
R966A	1-206-467-00	METAL OXIDE	15	5%	2W F
R967A	1-217-395-00	FUSIBLE	47	5%	1/4W F
RV101	1-224-247-XX	RES, ADJ, METAL GLAZE	100		
RV102	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV103	1-228-127-00	RES, VAR, CARBON	20K		
RV104	1-228-128-00	RES, VAR, CARBON	5K		
RV105	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV106	1-224-248-XX	RES, ADJ, METAL GLAZE	470		
RV107	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV108	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV109	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K		
RV110	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV307	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV308	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV501	1-228-128-00	RES, VAR, CARBON	5K		
RV601	1-224-254-XX	RES, ADJ, METAL GLAZE	47K		
RV602	1-226-234-00	RES, ADJ, CARBON	2K		
RV603	1-226-239-00	RES, ADJ, CARBON	100K		
RV604	1-226-234-00	RES, ADJ, CARBON	2K		
RV605	1-226-239-00	RES, ADJ, CARBON	100K		
RV701	1-226-236-00	RES, ADJ, CARBON	10K		
RV702	1-224-252-XX	RES, ADJ, METAL GLAZE	10K		
RV703	1-226-236-00	RES, ADJ, CARBON	10K		
RV801	1-226-241-00	RES, ADJ, CARBON	500K		
RV802	1-226-241-00	RES, ADJ, CARBON	500K		
RY501	1-515-323-00	RELAY			
RY502	1-515-323-00	RELAY			
RY503	1-515-323-00	RELAY			
RY504	1-515-323-00	RELAY			
RY505	1-515-323-00	RELAY			
RY506	1-515-323-00	RELAY			
RY507	1-515-467-00	RELAY, LATCH			
RY508	1-515-467-00	RELAY, LATCH			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S01	1-552-539-00	SWITCH, KEY BOARD
S02	1-552-539-00	SWITCH, KEY BOARD
S03	1-552-539-00	SWITCH, KEY BOARD
S04	1-552-539-00	SWITCH, KEY BOARD
S05	1-552-539-00	SWITCH, KEY BOARD
S06	1-552-539-00	SWITCH, KEY BOARD
S07	1-552-539-00	SWITCH, KEY BOARD
S501	1-553-254-00	SWITCH, ROTARY
S502	1-554-338-00	SWITCH, LEVER SLIDE
S503	1-554-007-12	SWITCH, PUSH
S504	1-552-964-00	SWITCH, ROTARY
S505	1-553-638-00	SWITCH, SLIDE
S601	1-553-325-00	SWITCH
S801	1-553-206-00	SWITCH, SLIDE
S851	1-552-539-00	SWITCH, KEY BOARD
S852	1-552-539-00	SWITCH, KEY BOARD
S853	1-552-539-00	SWITCH, KEY BOARD
S854	1-552-539-00	SWITCH, KEY BOARD
S855	1-552-539-00	SWITCH, KEY BOARD
S856	1-552-539-00	SWITCH, KEY BOARD
S857	1-552-539-00	SWITCH, KEY BOARD
S951A	1-553-318-00	SWITCH, PUSH (AC POWER)
S1001	1-552-268-00	SWITCH, SLIDE
S1002	1-552-268-00	SWITCH, SLIDE
TH101	1-800-200-00	THERMISTOR S-3K
TH301	1-800-200-00	THERMISTOR S-3K
TH1001	8-719-814-11	DIODE THS102
TH1002	8-719-814-11	DIODE THS102
TH1003	8-719-814-11	DIODE THS102
TH1004	8-719-814-11	DIODE THS102
TH1005	8-719-814-11	DIODE THS102
TH1006	8-719-814-11	DIODE THS102
TP1	♣;1-560-060-31	PIN, CONNECTOR 2P
TP2	♣;1-560-060-31	PIN, CONNECTOR 2P
TP3	♣;1-560-060-31	PIN, CONNECTOR 2P
TP601	♣;1-560-060-31	PIN, CONNECTOR 2P
TP602	♣;1-560-060-31	PIN, CONNECTOR 2P
TP701	♣;1-560-060-31	PIN, CONNECTOR 2P
X601	1-527-815-00	OSCILLATOR, CRYSTAL

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- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

- In each case, U : μ, for example: UA.... : μA..., UPA.... : μPA..., UPC.... : μPC, UPD.... : μPD...

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