

US Model
Canadian Model
AEP Model
UK Model
E Model



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STEREO-CASSETTE DECK

SPECIFICATIONS

Recording system 4-track 2-channel stereo

Fast-forward and rewind time

Approx. 90 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)		60 dB	67 dB	73 dB
TYPE III (Sony FeCr)		61 dB	68 dB	74 dB
TYPE II (Sony CD- α)		57 dB	64 dB	70 dB
TYPE I (Sony BHF)		56 dB	63 dB	69 dB

Total harmonic distortion

0.8 % (with Sony METALLIC and FeCr cassettes)

Frequency response DOLBY OFF

- With TYPE IV cassette (Sony METALLIC)
20 - 19,000 Hz
25 - 17,000 Hz (± 3 dB)
25 - 13,000 Hz (± 3 dB, 0 VU recording)
- With TYPE III cassette (Sony FeCr)
20 - 19,000 Hz
25 - 18,000 Hz (± 3 dB)

• With TYPE II cassette (Sony EHF)

20 - 18,000 Hz

25 - 16,000 Hz (± 3 dB)

• With TYPE I cassette (Sony HFX)

20 - 18,000 Hz

0.04 % WRMS

Line inputs (phono jacks)

Sensitivity 77.5 mV (-20 dB)

Input impedance 50 k ohms

Wow and flutter
Inputs

— Continued on page 2 —

ATTENTION AU COMPOSANT AVANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE Δ SUR LES DIAGRAMMES ÉLECTRONIQUES, LES VUES ÉCLATÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY OÙNT LES NOMBRES SONT DONNÉS DANS CE MANUEL OU DANS LES DOCUMENTS FOURNIS PAR SONY.

CALIBRATED COMPONENT PARTS

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFETY. REPLACE THESE CRITICAL COMPONENTS ONLY WITH SONY PARTS WHERE THE PART NUMBER AND QUANTITY ARE PROVIDED IN THIS MANUAL OR IN DOCUMENTS PROVIDED BY SONY.



SONY
SERVICE MANUAL

Outputs	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 Headphone output Output level, variable from -20 dB to -50 dB at a load impedance of 8 ohms	Power consumption 26 watts Dimensions Approx. 430 × 105 × 285 mm (w/h/d) (17 × 4 1/4 × 11 1/4 inches) including projecting parts and controls Weight Approx. 6.1 kg (13 lbs 8 oz)
General Power requirements	Type 1: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel) Type 2: 240 V ac, 50/60 Hz (220 V ac adjustable by authorized Sony personnel) Type 3: 110, 120, 220 or 240 V ac ad- justable, 50/60 Hz	Peak program meters Response range -40 dB to +8 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

0 dB = 0.775 V

FEATURES

Three-head system with S & F (Sendust and Ferrite) heads

Separate record and playback heads allow optimum gap settings and impedance ratings for distortion-free recording and greatly extended frequency response. Sendust and Ferrite heads take full advantage of metal tapes to provide a wider dynamic range than is possible with conventional tapes. 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.

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.

Dolby C-type NR (noise reduction) system

In addition to the conventional B-type Dolby NR system, the TC-K555 employs the newly-developed C-type Dolby NR system which reduces tape noise twice as effectively as the B-type system. The C-type system also incorporates an anti-saturation network to improve the high-frequency dynamic range by 4 dB at 10 kHz.

Digital linear counter

This counter indicates the recording or playback time elapsed on the tape so that the tape can be precisely indexed. While conventional displays can only indicate the elapsed recording time, this display can indicate with a minus sign how much recording time remains.

Bright FL-display peak program meters

The peak program meters follow the transient peaks of the music and maintain the peak readings for about 4 seconds. This double indication makes it easy to set critical recording levels precisely.

Remote control operation

Using the optional RM-50 or RM-80 remote control unit, various operations—recording, playback, record muting operation, etc.—can be remotely controlled.

When the RM-65 synchro remote control unit is used to connect this cassette deck with a turntable equipped with a synchro remote control jack or a TC-PB5 stereo cassette player, the operation of the cassette deck and the turntable or TC-PB5 will be synchronized.

Two motors

The two-motor drive system assures accurate and stable tape transport. The capstan is driven by a linear torque BSL (brushless and slotless) motor to keep wow and flutter low and provide smooth torque.

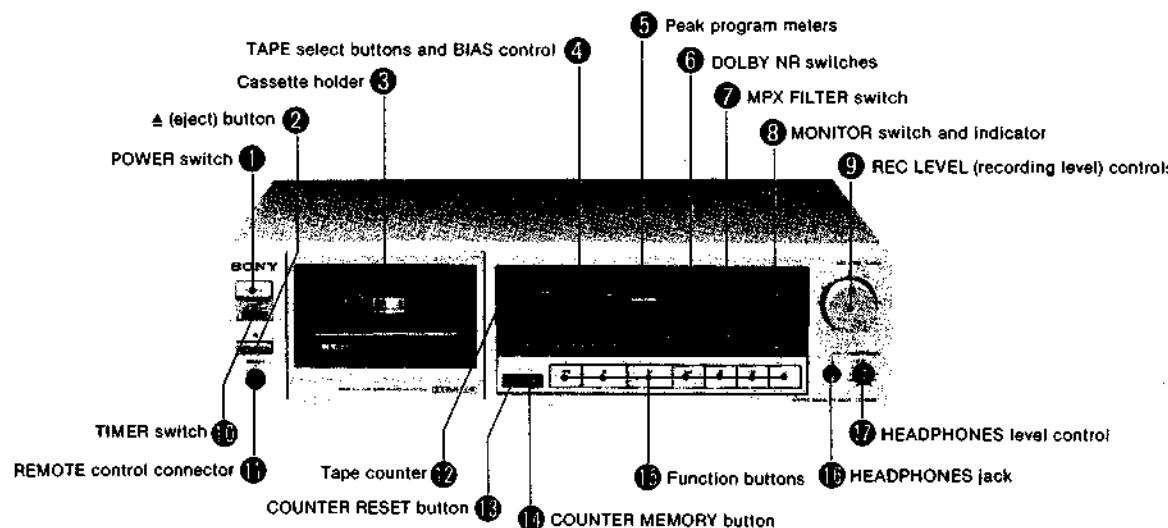
Useful functions

- Record muting function allows you to easily insert a moderately long blank space between selections.
- Auto play permits one step rewind and playback from the beginning of the tape and the memory function allows you to easily locate any desired point on the tape.
- A timer switch is provided to turn the deck on and off any number of times at preset times set on an optional timer.

SECTION 1 OUTLINE

1-1. FUNCTION OUTLINE 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 meter and the tape counter will light up. The indicator lamp of the pause button will blink for about 4 seconds, indicating that the function button 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 Cassette holder

④ TAPE select buttons and BIAS control

Depress one of the TAPE select buttons according to the type of tape to be used. When the appropriate button is depressed, the optimum equalization and bias current settings are obtained for recording, and the optimum equalization setting is obtained for playback. When recording using a TYPE I (NORM) tape, select the appropriate positions of the BIAS control. See "Recommended settings for the TAPE select buttons and the BIAS control" on page 6.

⑤ Peak program meter

With the MONITOR switch set to SOURCE, the meters show the peak input level of each channel, and to TAPE, the meters show recorded levels. They follow the transient peaks of high-level inputs that are too brief to be followed by conventional VU meters so that the optimum recording level can be accurately set. The highest input of each channel is held about 4 seconds on the scale, except when a higher peak occurs before 4 seconds have passed, in which case that peak is immediately indicated.

⑥ DOLBY NR switches

The left switch turns the Dolby NR* (Noise Reduction) system on and off and the right switch selects either the B-type or C-type Dolby NR system.

To record with the Dolby NR process, depress the ON/OFF switch to the ON position and choose between B-TYPE (△) and C-TYPE (□).

To record without the Dolby NR process, press the ON/OFF switch again release.

When playing back, set these switches to the same position used in recording.

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

⑦ 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.

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.

⑧ MONITOR switch and indicator

When adjusting the recording level, set this switch to the released position (SOURCE △) to allow monitoring of the sound to be recorded. During playback, depress this switch (TAPE □) to allow monitoring of the recorded sound. According to the MONITOR switch setting, "SOURCE" or "TAPE" will appear in the indicator window.

During recording, use this switch to monitor either the source or the recorded sound.

⑨ 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.

⑩ 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 timer switch to REC. To playback, set it to PLAY. See "Timer-activated recording and playback" on page 11.

⑪ REMOTE control connector

Connect the optional RM-50 (wired) or RM-80 (wireless) remote control unit to operate the tape transport functions from a distance. Synchronized operation is also possible with selected Sony turntables, using the optional RM-65 synchro remote control unit. Read the instruction manual of your remote control unit before operating it.

⑫ Tape counter

This counter indicates the tape running time. See "Using the digital linear counter" on page 8.

⑬ COUNTER RESET button

Press this button to reset the tape counter to "0.00".

⑭ COUNTER MEMORY button

Press to rewind the tape to the "0.00" 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 "0.00". When you do not use the memory function, press this button again. The word "MEMORY" will disappear.

⑮ Function buttons

It is possible to switch directly from one mode to another. The indicator lamps light when the tape deck is in the forward, record or pause mode.

◀ (rewind) button : Press this button to rewind the tape. The rewind button is also used, with the forward button, to initiate auto play. See "Auto play" on page 10.

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

▶ (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.

■ (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.

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

⑯ HEADPHONES jack

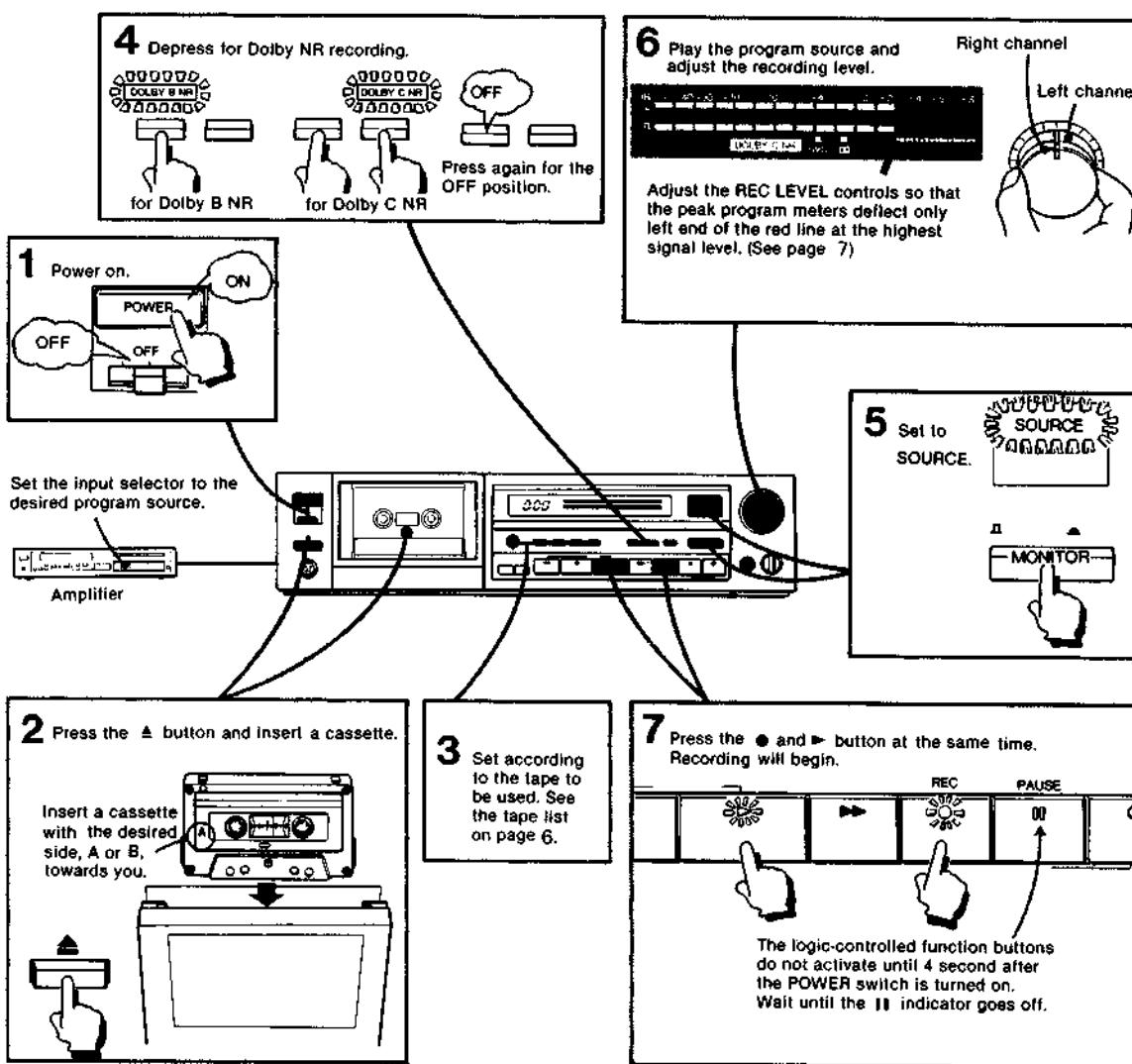
Headphones may be inserted either to monitor the input signals to be recorded or to listen to a recording in the playback mode. Headphone volume is adjustable with the HEADPHONES control.

⑰ HEADPHONES level control

This control adjusts the headphone level. This setting does not affect the peak program meters or the output level of the LINE OUT jacks at the rear.

RECORDING**TO RECORD**

The numbers in this diagram indicate the sequence to be followed.

**RECOMMENDED SETTINGS FOR THE TAPE SELECT BUTTONS AND BIAS CONTROL**

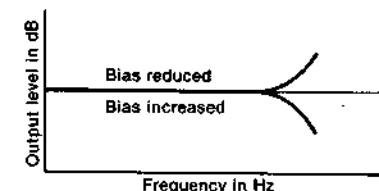
Press the appropriate TAPE select button referring to the recommended settings listed below. When recording using a TYPE I (normal) tape, adjust the BIAS control also. While the settings are optimum for Sony cassettes, you may want to change them when using cassettes produced by other manufacturers.

TAPE	Tapes (C-60 and C-90)
BIAIS TYPE I NORMAL	AMPEX: 371 PLUS FUJI: FL TDK: D BASF: PERFORMANCE SCOTCH: DYNARANGE
BIAIS TYPE I H NORMAL	SONY: SHF, HFX BASF: PROFESSIONAL I MAXELL: LN, UD, UD-XL I SCOTCH: MASTER I MEMOREX: MRX
TYPE II CrO ₂	AMPEX: GRAND MASTER I FUJI: FX-I MAXELL: UD-XLII SCOTCH: MASTER II MEMOREX: CrO ₂
TYPE III Fe-Cr	SONY: EHF MAXELL: UD-XLII SCOTCH: MASTER III MEMOREX: CrO ₂
TYPE IV METAL	PHILIPS: FERRO BASF: PROFESSIONAL III SCOTCH: MASTER III
	CHROMIUM
	SONY: METALLIC Other metal tapes

The three-head system permits you to monitor the recorded sound while in the record mode, so that you can easily check the effects of various settings of the TAPE select buttons and the BIAS control.

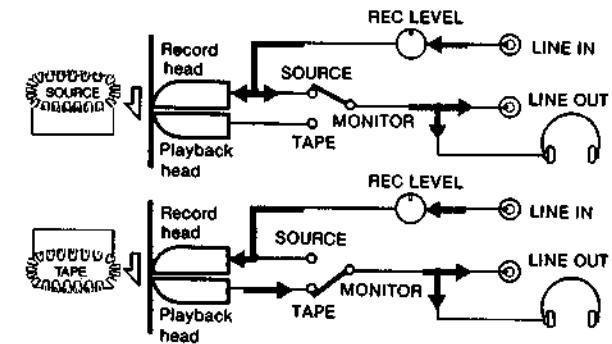
BIAIS control

This control regulates bias current for TYPE I (NORM) cassettes. The full counterclockwise position decreases bias by about 20% from the center position and the full clockwise position increases it by about 20%. Generally, as bias is increased, extreme high frequencies will be suppressed. As bias is reduced, extreme high frequencies will be boosted. You can then find the appropriate bias setting for each brand of TYPE I cassettes.

**RECORD MONITORING**

As this tape deck has separate record and playback heads, you can easily compare the source and the recorded sounds in the recording mode by using the MONITOR switch. You can check the recording level and whether there is any contamination on the heads that is affecting the recording.

If the connected amplifier has a tape monitor selector, source/tape comparison is possible with the amplifier monitor selector. In this case, set the tape deck MONITOR switch to TAPE.

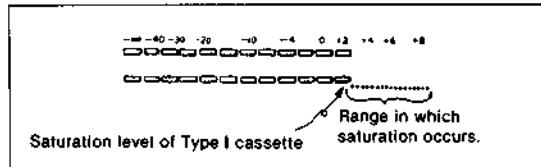
MONITOR switch setting and signal flow**TO RECORD MATERIAL ONTO A SPECIFIC PORTION OF TAPE**

When you want to re-record a specific portion of tape or to insert new material between two points on a tape you will find it handy to be able to change directly from the playback to the record mode by pressing the \bullet button while holding the \triangleright button down.

TO ADJUST THE RECORDING LEVEL

Adjust the recording level while monitoring on the peak program meters the input level of the program source to be recorded. If the recording level setting is too high, the recording will be distorted, and if the setting is too low, the recording will be noisy. The recording level should be set as high as possible while still avoiding distortion. This level will depend on the type of tape being used. When the TAPE button is pressed, the range above the saturation level of the selected type of tape is indicated by the red line. Generally speaking, adjust the recording level by making sure that the meters deflect only to the left end of the red line at the highest signal level.

Example: Type I cassette



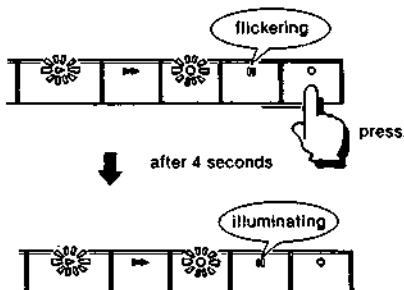
Since the saturation level of any tape is lower in the higher frequencies than in the lower frequencies, the recording level may still be too high if adjusted in this way if the program to be recorded contains many high frequency signals. Consideration has to be given to the program source to be recorded as well as to the characteristics of the cassette to be used, since each cassette, even cassettes using the same type of tape, may have different characteristics. The following table will provide you with a starting point in setting the recording level of various kinds of programs when using Sony cassettes.

Type of tape	Sony cassettes	Low and mid freq. range programs (vocal, etc.)	Mid and high freq. range programs (piano, guitar, etc.)
I	HFX	+ 3 dB	+ 1 dB
	SHF	+ 4 dB	+ 2 dB
II	EHF	+ 2 dB	+ 2 dB
III	FeCr	+ 5 dB	+ 1 dB
IV	METALLIC	+ 6 dB	+ 6 dB

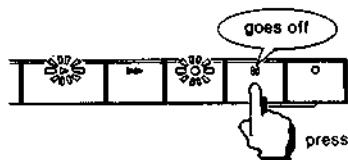
RECORD MUTING

By pressing the **●** button during recording, four seconds inter-spacing is provided automatically, eliminating unwanted program material such as broadcasting commercials. While the record muting is operating, the incoming signal is not recorded on the tape but it continues to register on the meters and feed to the monitor so that you know exactly what is going on.

- 1 Press the **●** button when the segment you do not want to record begins. The indicator of the **II** button will blink, and the tape path will pause automatically after four seconds.



- 2 When you want to resume recording, press the **II** button.



To insert a blank less than four seconds long

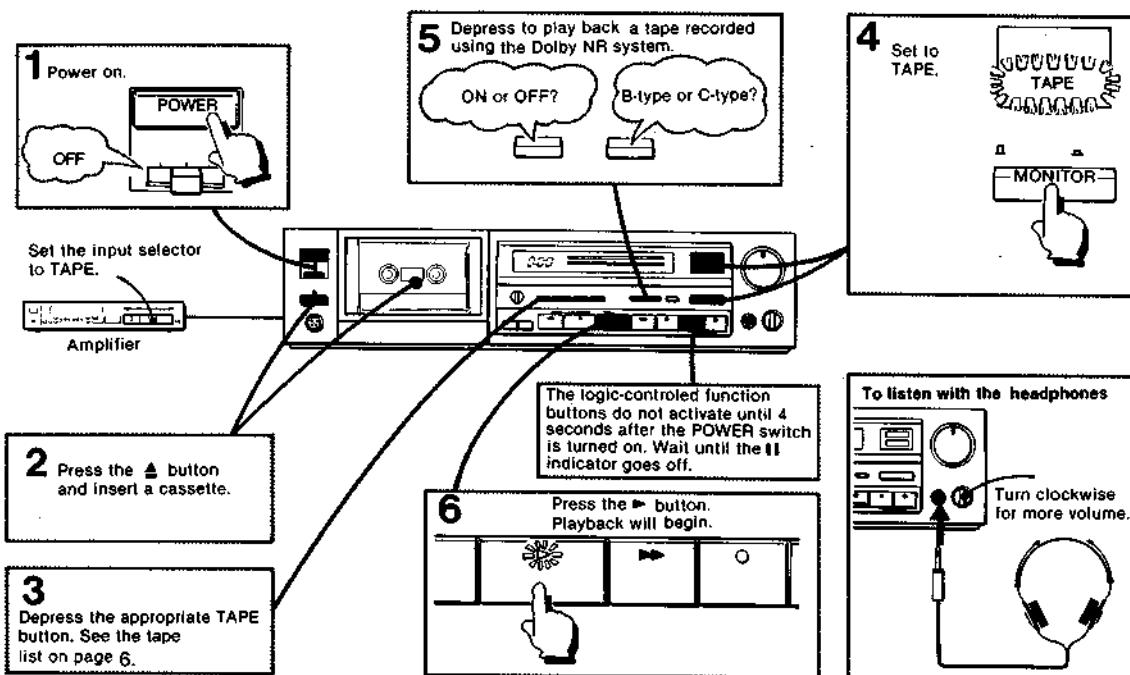
Press the **●** button to mute recording. Press the **II** button when you want to resume recording.

To insert a blank over four seconds long

Hold down the **●** button for as long as you want the blank segment on the tape to be. After four seconds, the indicator of the **II** button will blink more rapidly. When you release the **●** button, the tape deck will be in the pause mode. When you want to resume recording, press the **II** button to release the pause mode.

PLAYBACK

The numbers in this diagram indicate the sequence to be followed.



USING THE DIGITAL LINEAR COUNTER

The first two digits of this tape counter show the approximate recording or playback time in minutes, and the last two digits show the seconds.

minutes seconds
35.30

TO INDEX THE WHOLE TAPE

0.00
COUNTER
RESET

A =	B =
And I Love You	00:00:00
Holdin' Her	00:00:00
Yesterdays	00:00:00
Let It Be	00:00:00
Get	00:00:00
She Loves You	00:00:00
Cant Buy Me Love	00:00:00
Help	00:00:00

Before recording or playback, set the counter to "0.00" by pressing the COUNTER RESET button.

As the tape runs, the figures of the counter change. Note the numbers and the program being recorded or played back. Any point of the tape can thus be readily located later by reference to these numbers.

TO CHECK THE AVAILABLE RECORDING TIME ON ONE SIDE OF A CASSETTE

1 At the beginning of the tape, set the counter to "0.00".

0.00

COUNTER
RESET

2 Fast-forward the tape to the end. The digits will show the approximate available recording time.

35.30

35 min. 30 sec.

◀ ▶ ■ ○
◀

TO DETERMINE THE REMAINING RECORDING TIME

- 1 Stop the tape at the point at which you wish to begin recording.

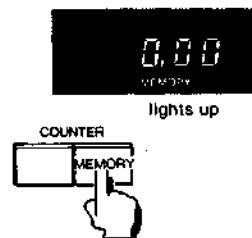


- 2 Set the counter to "0.00".



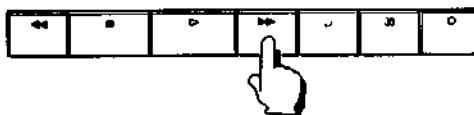
COUNTER
RESET

- 3 Activate the memory counter.



COUNTER
MEMORY

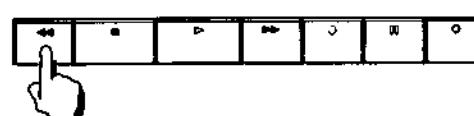
- 4 Fast-forward the tape to the end.



The digits will show the approximate remaining recording time.

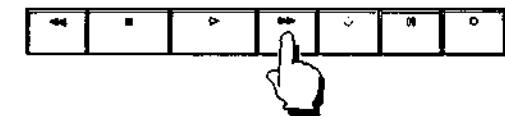


- 5 Rewind the tape. The tape will stop at "0.00".

**TO MONITOR THE REMAINING RECORDING TIME WHILE RECORDING—Using the minus display**

This counter shows the recording or playback time from the "0.00" point preceded by a minus sign when the tape is rewound beyond "0.00".

- 1 Fast-forward the tape to the end.



- 2 Set the counter to "0.00".



COUNTER
RESET

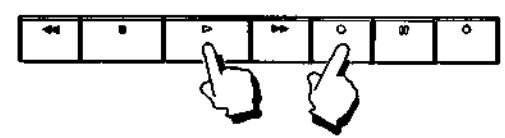
- 3 Rewind the tape to the beginning. The digits will show the approximate recording time on one side of the cassette.



30 min. available



- 4 Start the recording.



The digits will change from -30.00 to -29.59, -29.58 ... as the recording goes on, and you can monitor the remaining recording time at any point on the tape.

Note

Do not turn off the power while measuring the time because the numbers will return to "0.00" when the power is turned on again.

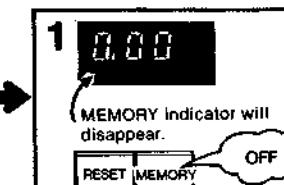
The accuracy of the counter

This counter is not actually a digital clock, so that the displayed figures are not exactly equal to the actual elapsed time. The accuracy will vary depending on the type of tape being used.

This counter has been designed using C-60 cassettes as the standard. Make sure that the displayed time is greater than the time required, when using a C-46 cassette.

AUTO PLAY AND MEMORY PLAY/STOP

To start the playback from the beginning after rewinding (auto play)

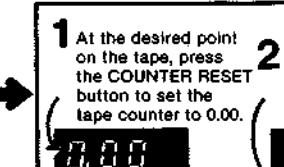


RESET MEMORY OFF

2 When rewinding
Press simultaneously

After the tape is completely rewound, the tape will automatically replay.

To start playback from a particular point after rewinding (memory play)

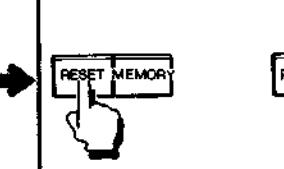


RESET MEMORY ON

3 When rewinding
Press simultaneously

The tape will replay automatically after rewinding to the 0.00 point.

To stop the tape at a particular point after rewinding (memory stop)



RESET MEMORY OFF

3 When rewinding
Press simultaneously

The tape will automatically stop at the 0.00 point.

Why does the tape stop around -0.02?
In order to avoid any chance of cutting off the starting point.

How can the tape be rewound further than 0.00?
Press the \ll button again.

ERASING

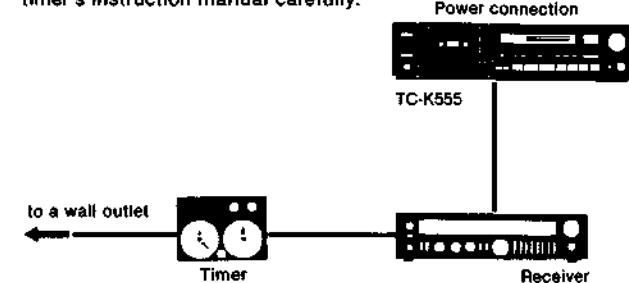
When the tape deck functions in recording mode, the erase head automatically erases any previously recorded material.

To erase without recording:

1. Make sure that the safety tab of the cassette is in place, or that the tab slot is covered with plastic tape.
2. Set the REC LEVEL controls fully to "0". (Disconnecting all inputs will result in a more complete erasure.)
3. Press the appropriate TAPE select button according to the type of tape to be erased. (The TYPE IV button assures good erasing for any type of tape.)
4. While holding the \bullet button down, press the \gg button.

TIMER-ACTIVATED RECORDING AND PLAYBACK

By connecting any commercially available timer to the tape deck, the deck can be set to play back or record automatically at any desired time. As timers work in different ways, be sure to read the timer's instruction manual carefully.



To record a broadcast using a timer

1. Connect the tape deck, receiver and timer. Set the timer so that power is supplied to the connected equipment.
2. Turn on the receiver and tune in the station which will broadcast the program you want to record.
3. Set the tape deck's TIMER switch to OFF.
4. Insert a cassette. Make sure that the tab is intact or that plastic tape covers the tab slot.
5. Turn on the tape deck and adjust the recording level.
6. Set the timer for the desired time. (At this point power to the connected equipment will be cut off.)
7. Set the tape deck's timer switch to REC.

The tape deck is now ready to start recording at the time set on the timer.

To play back using a timer

The connections between equipment are the same as for recording using a timer.

1. Set the tape deck's TIMER switch to OFF.
2. Turn on the receiver and set the appropriate switches for playback.
3. Turn on the tape deck and insert the recorded cassette.
4. Set the timer for the desired time. (At this point power to the connected equipment will be cut off.)
5. Set the tape deck's timer switch to PLAY. The tape deck is now ready to start playback at the time set on the timer.

Note

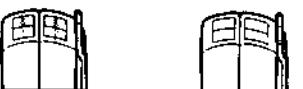
The tape deck's timer switch will function properly only if the tape deck is turned on after the switch is set to REC or PLAY. Do not change the setting of the timer switch during the four second stand-by period immediately after the power is turned on. If you want to change the setting of the switch, turn the power off first.

MAINTENANCE

Cleaning of heads and tape path

The performance of your unit is dependent on the periodic cleaning of the heads and all surfaces over which the tape travels. Dirty heads and a dirty tape path cause:

- Loss of high frequency response
- Loss of sound volume
- Sound drop-outs



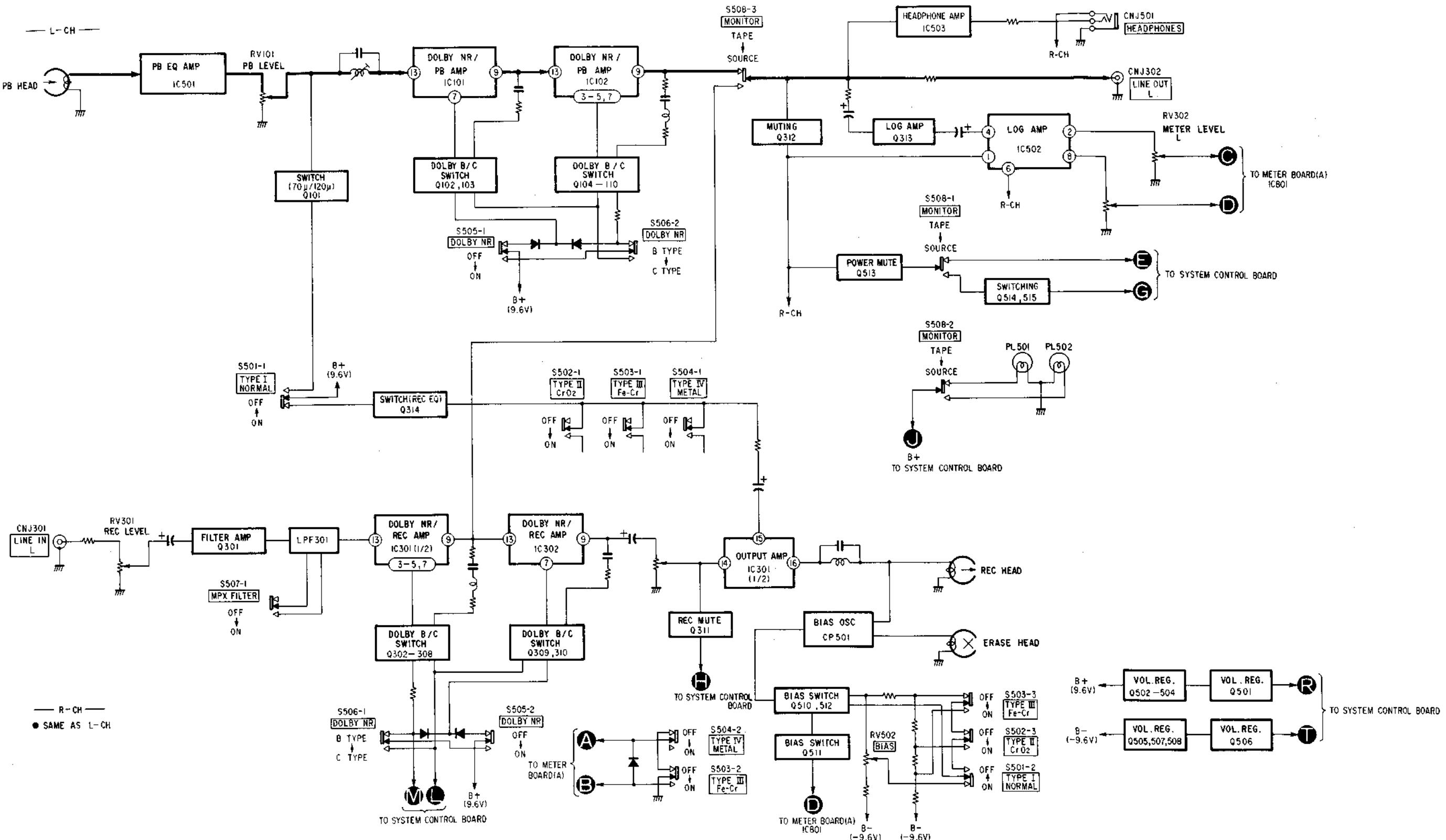
The heads and tape path should be cleaned after 10 hours of operation.

MEMO

TC-K555 TC-K555

1-2. BLOCK DIAGRAMS

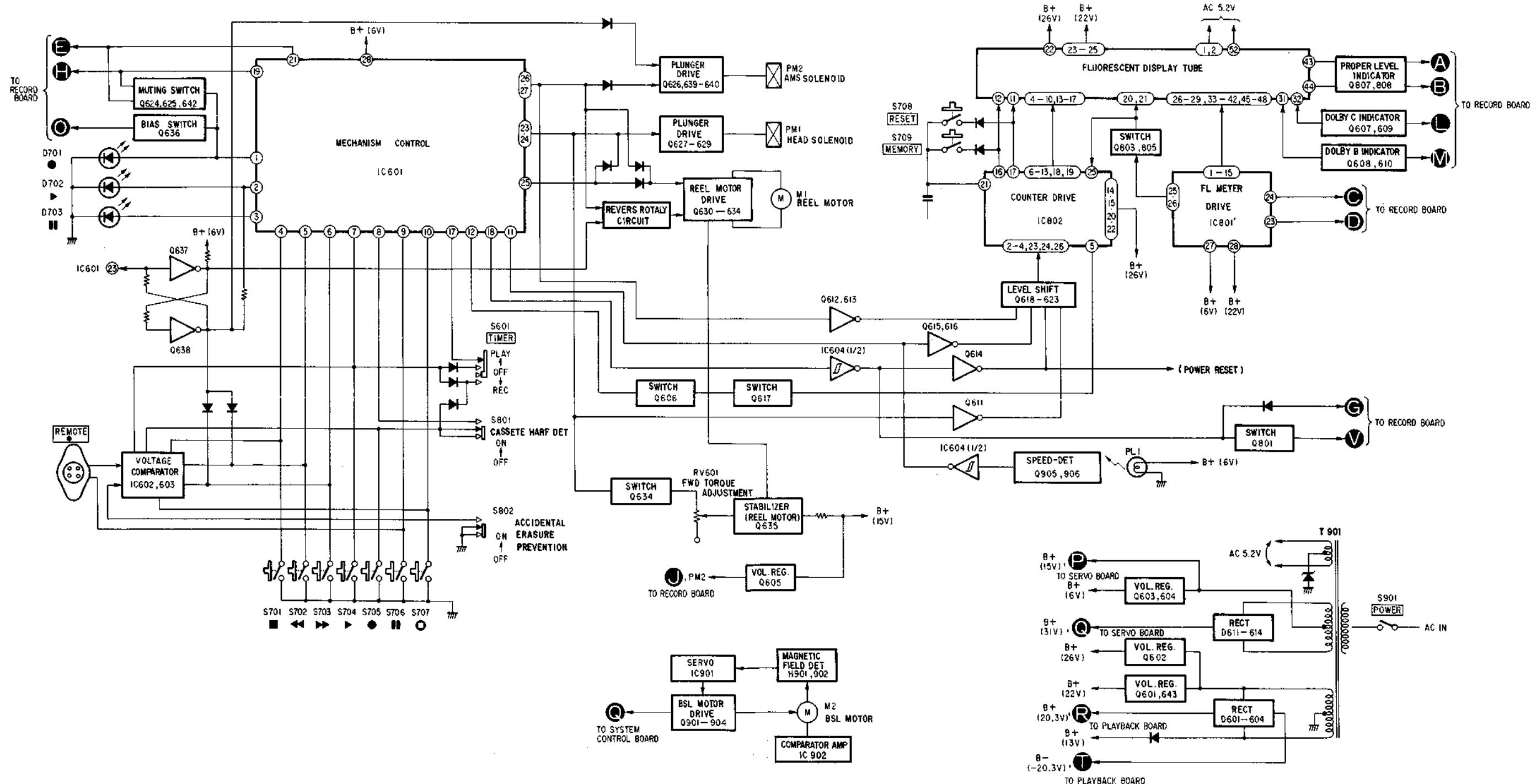
- Amp Section -



TC-K555 TC-K555

X

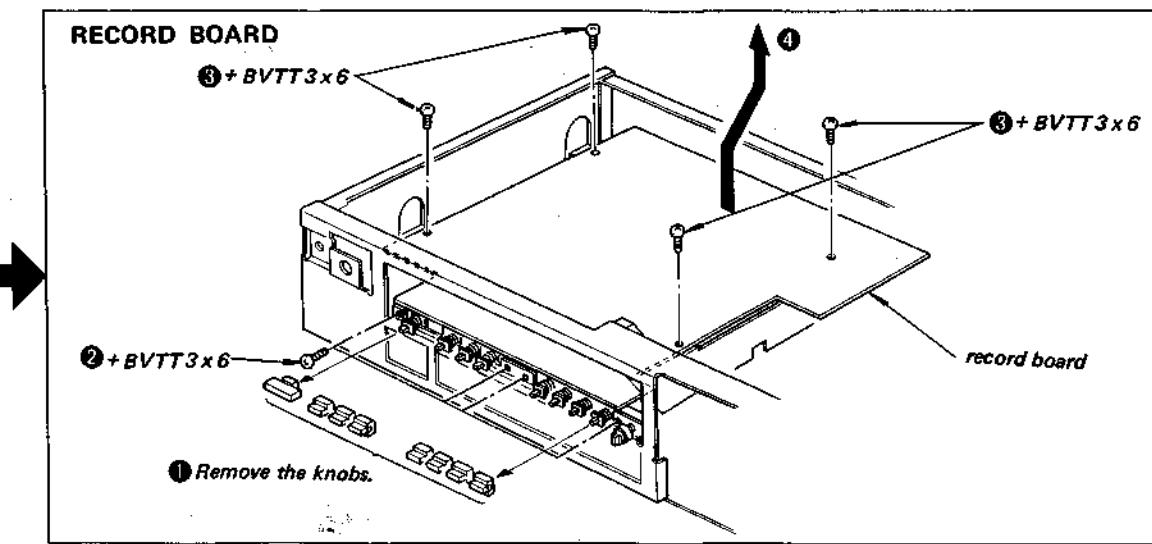
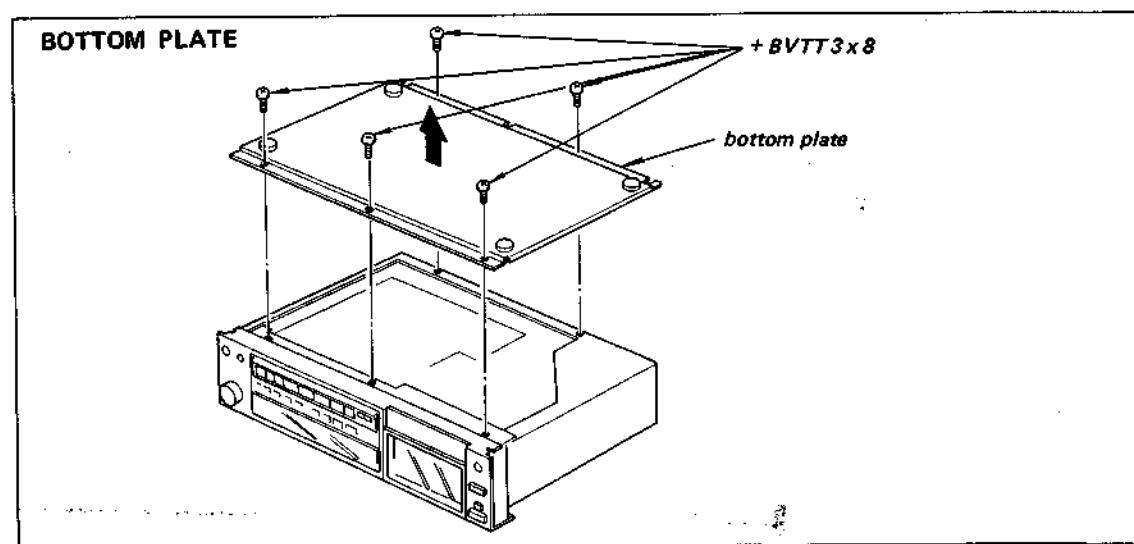
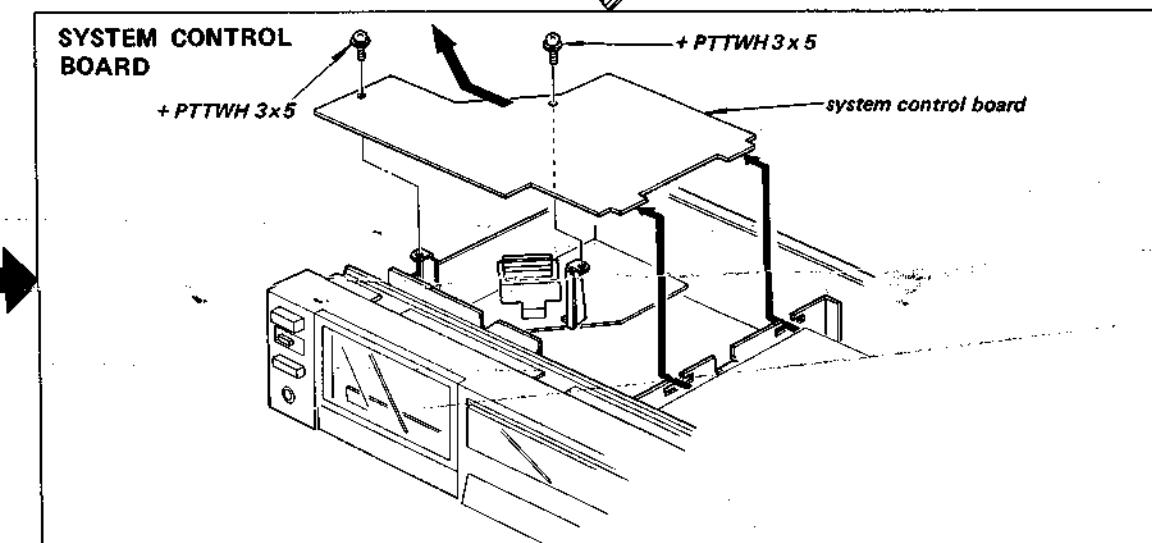
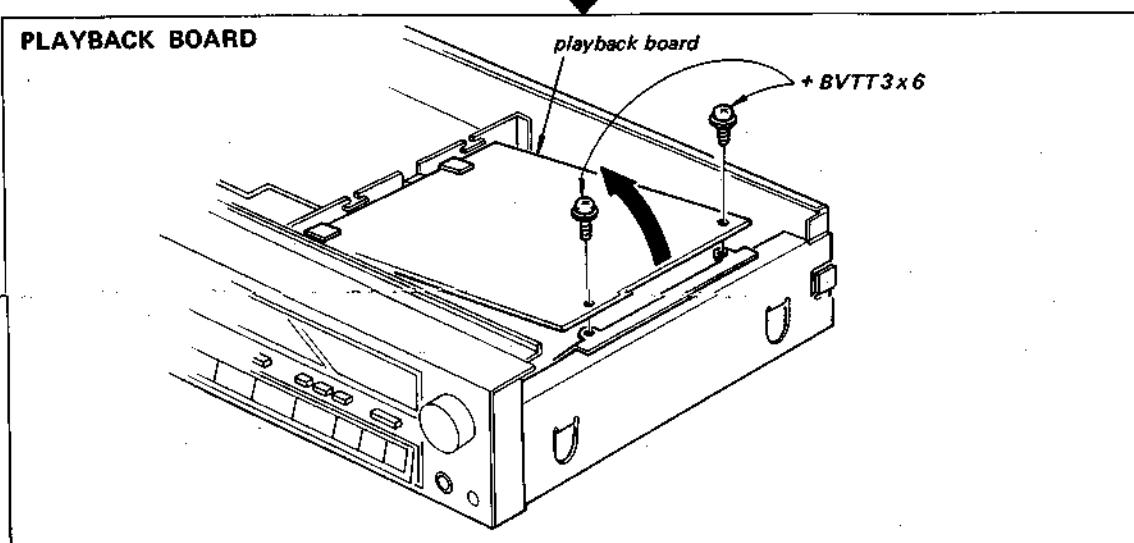
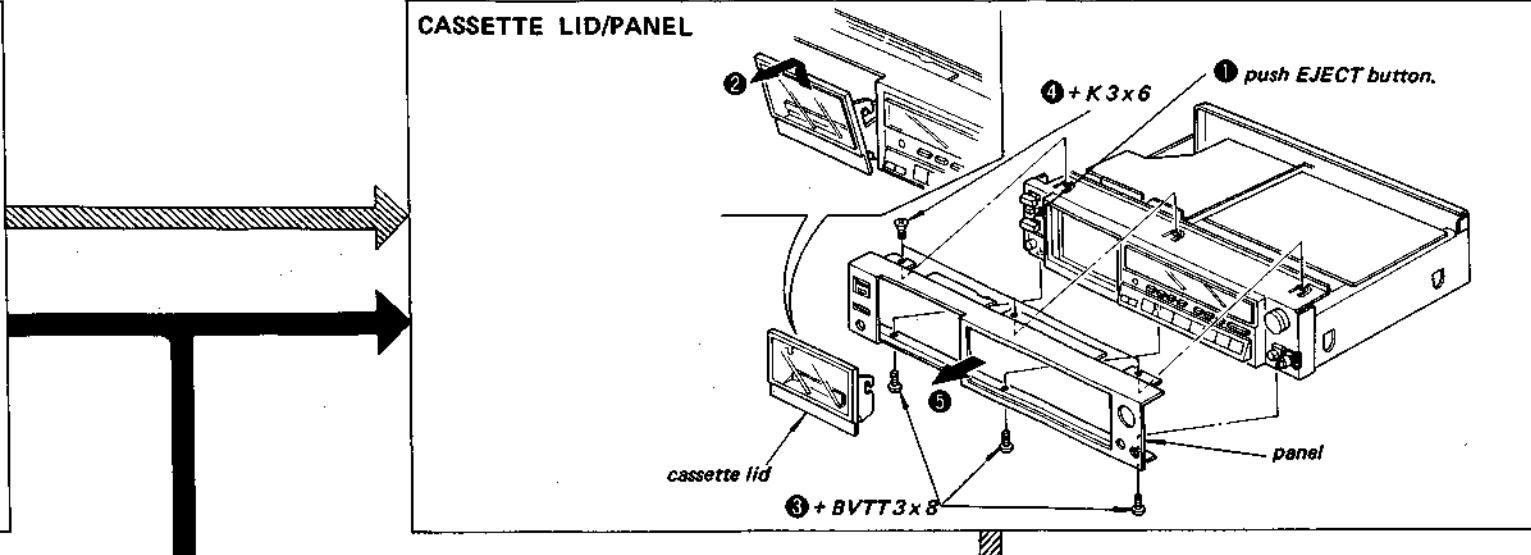
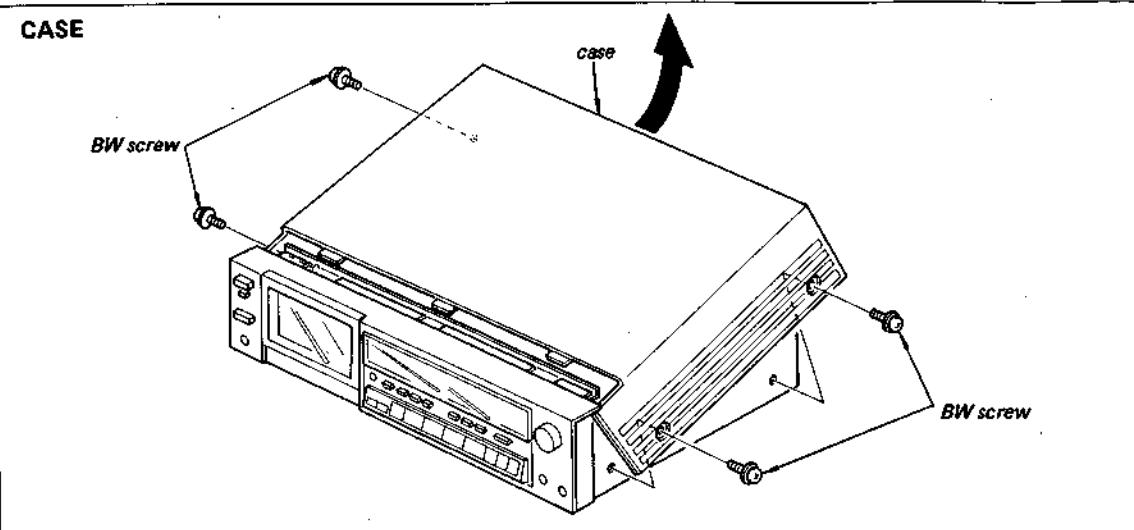
- System Control Section -

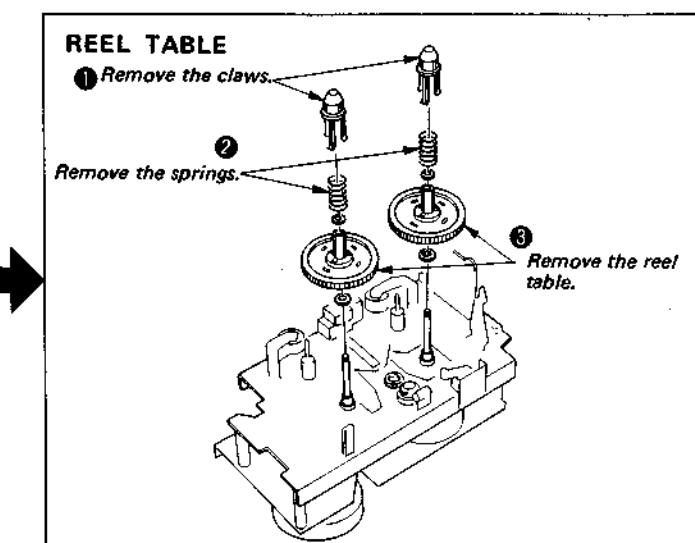
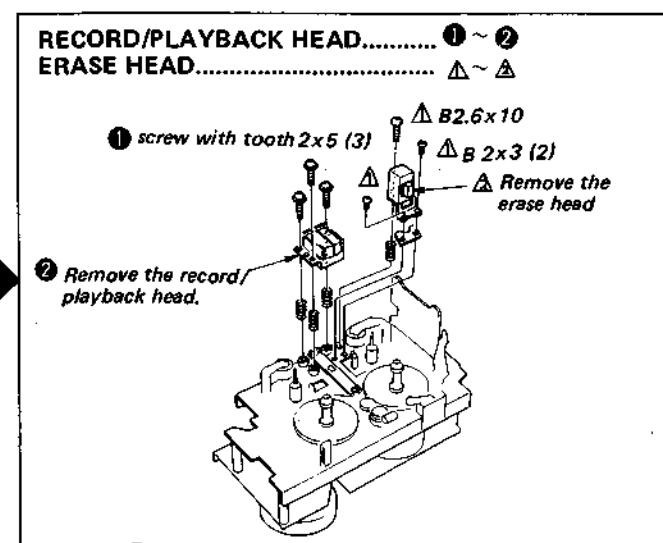
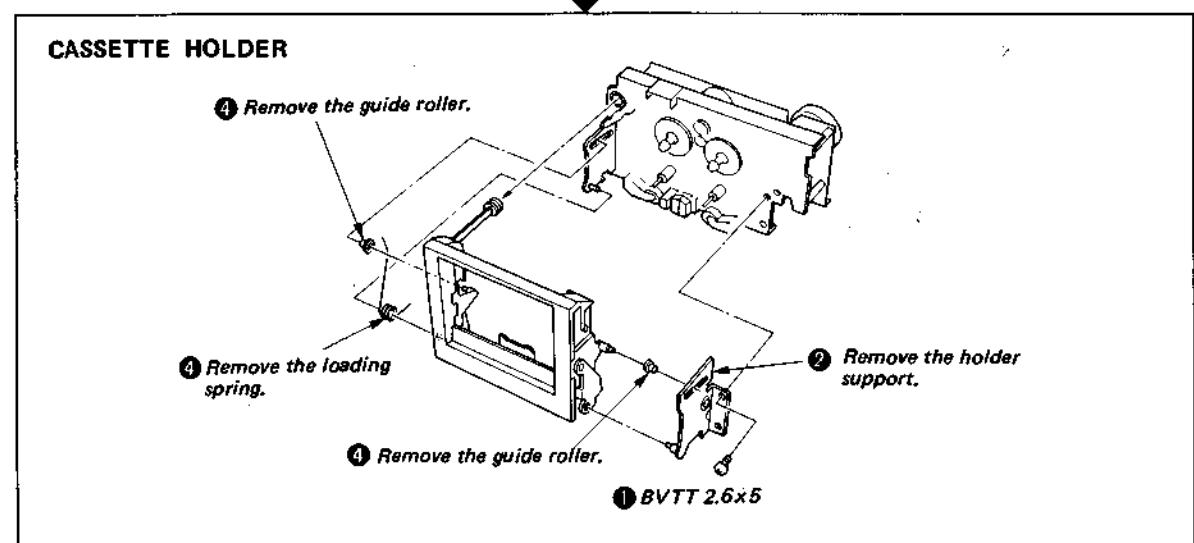
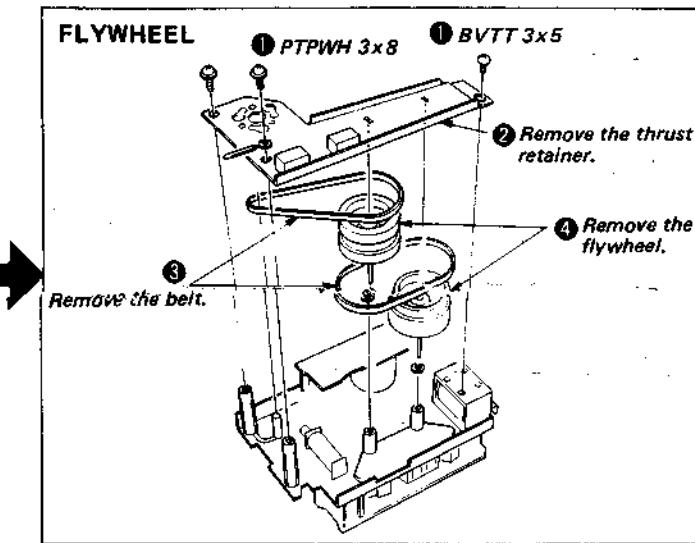
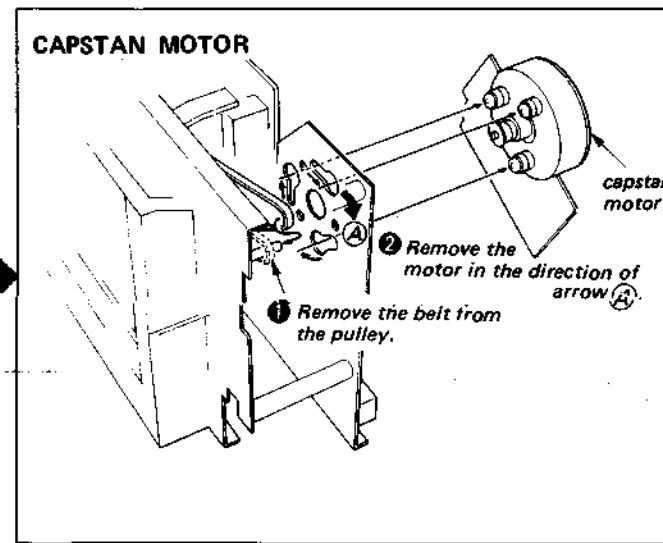
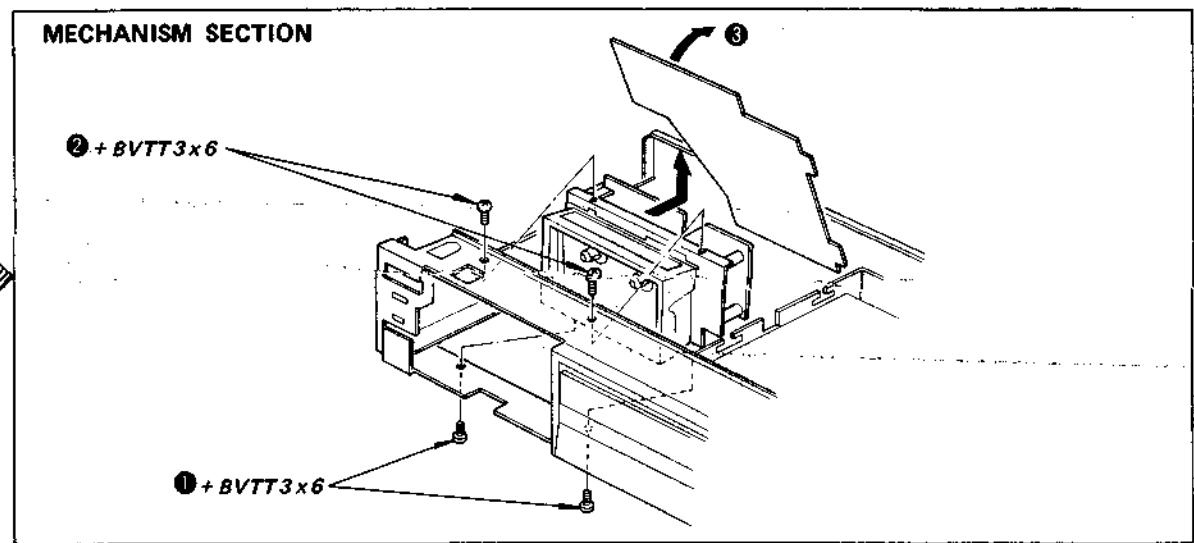
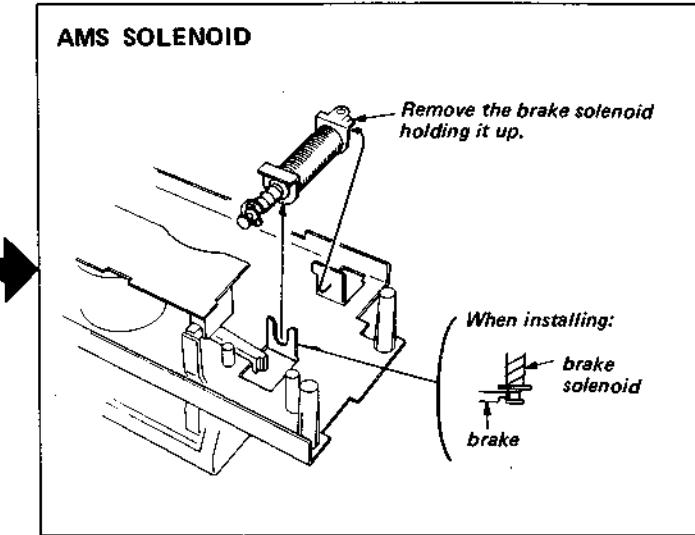
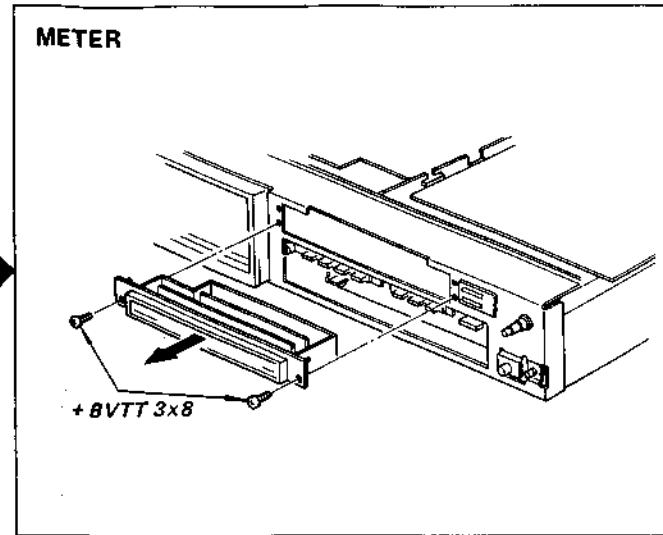
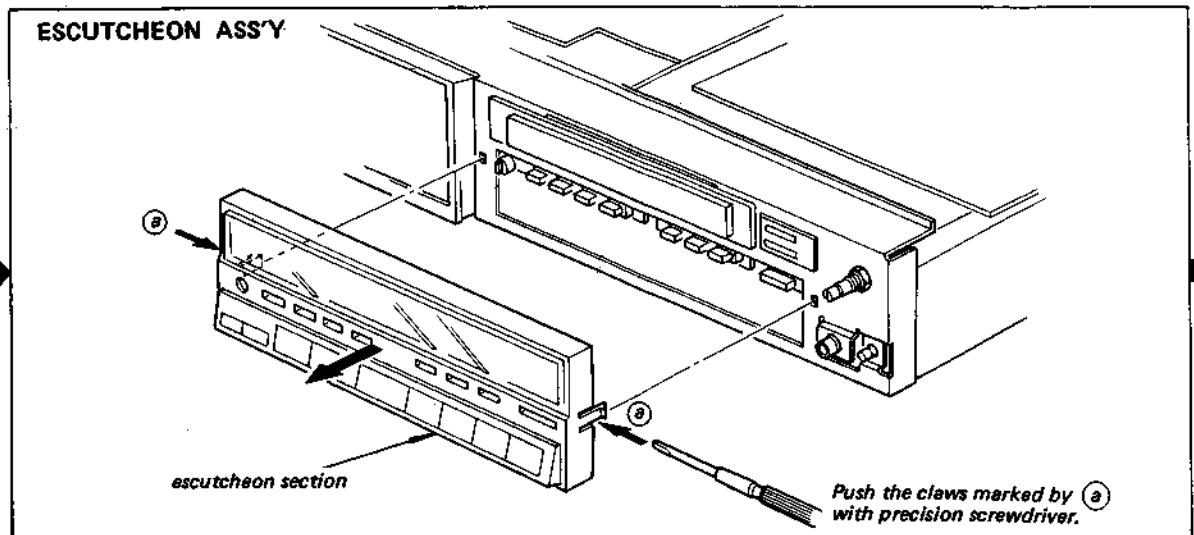


**SECTION 2
DISASSEMBLY**

TC-K555 TC-K555

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

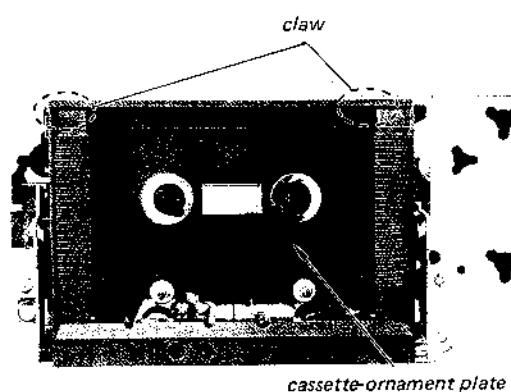




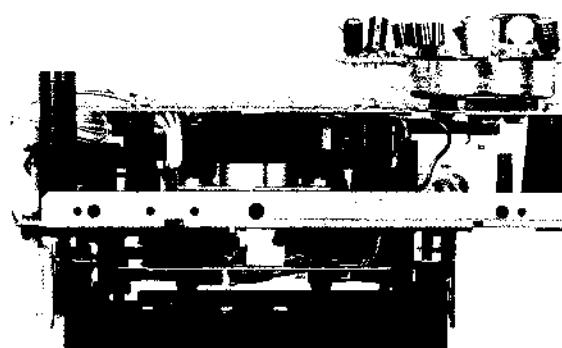
CASSETTE-ORNAMENT PLATE

Note: This plate does not need screws to be installed.

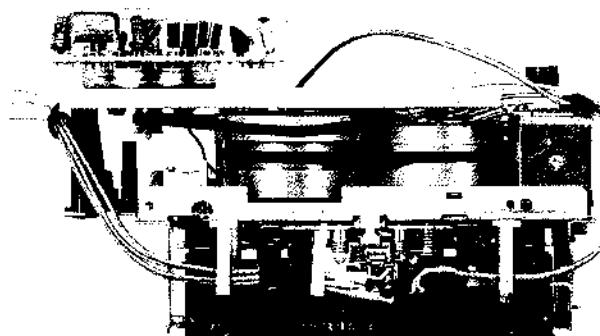
1. Press the ejection button and open the cassette lid.
2. Release the two claws from the cassette-ornament plate at both the top corners.
3. Depress the REC detecting lever and the half detecting levers at the inside of the set and remove the cassette-ornament plate.
4. When reinstalling the cassette-ornament plate, perform the steps in a reverse manner.

**MECHANISM SECTION PHOTOGRAPHS**

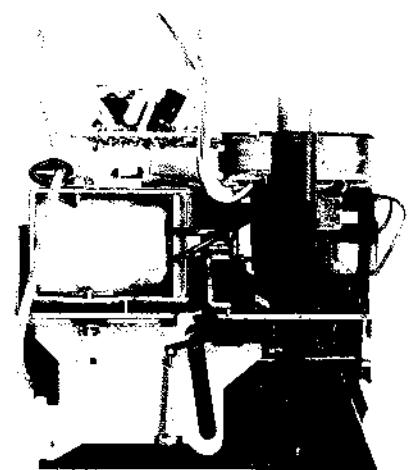
1. Top View with Cassette Holder Shut:



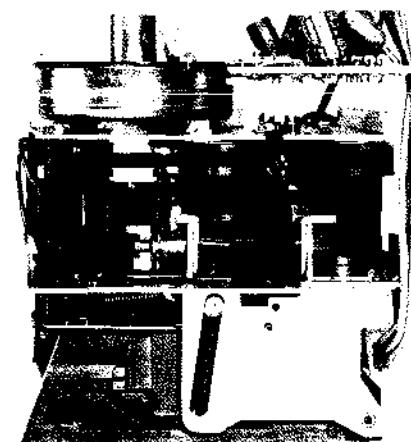
2. Bottom View with Cassette Holder Shut:



3. Left Side View with Cassette Holder Shut:



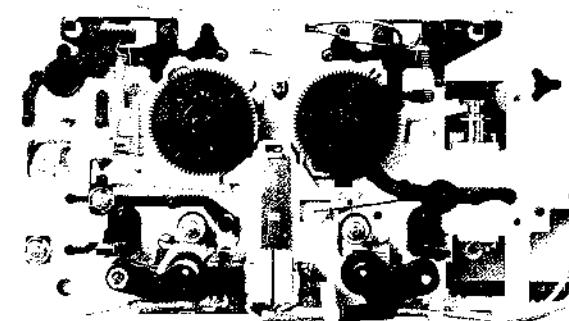
4. Right Side View with Cassette Holder Shut:



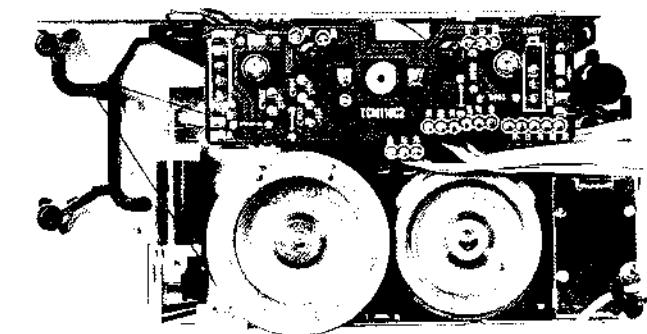
5. Front View with Cassette Holder Removed:



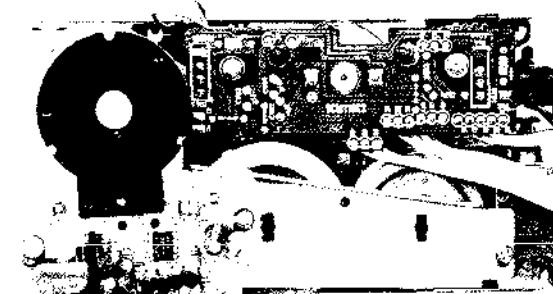
6. Front View with Cassette Holder and Cassette-Ornament Plate Removed:



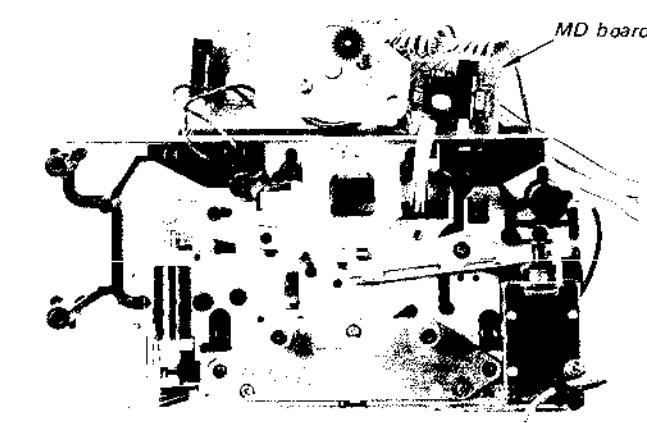
8. Bottom View with Thrust Retainer and DC Motor Removed:



7. Rear View:



9. Bottom View with Switch Board and Flywheel (T) Removed:

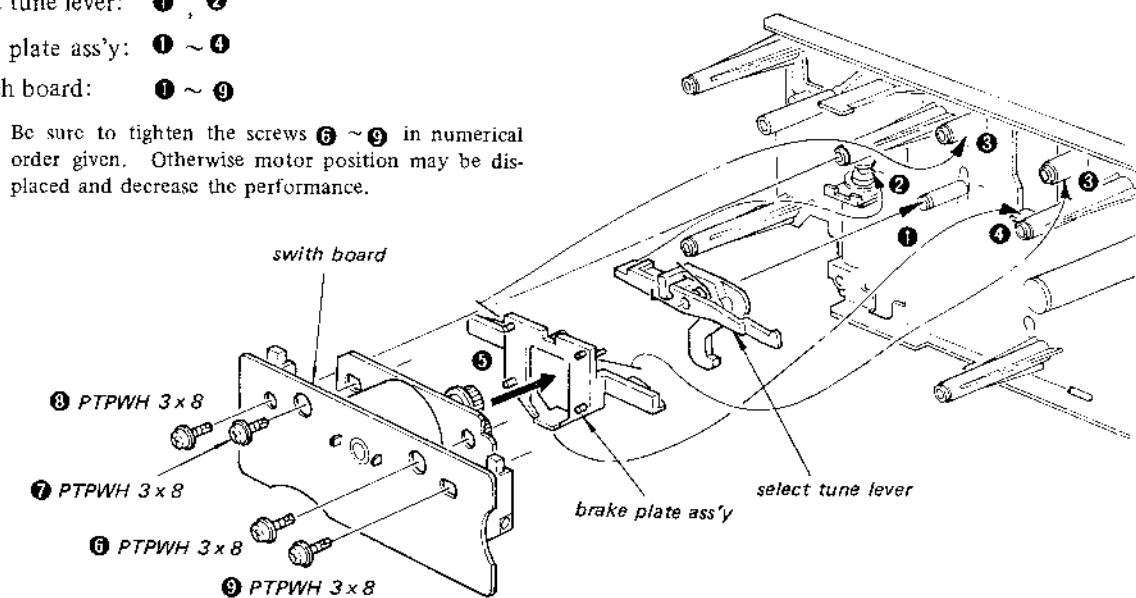
**SELECT TUNE LEVER/BRAKE PLATE ASS'Y/
SWITCH BOARD**

Select tune lever: ① ~ ②

Brake plate ass'y: ① ~ ④

Switch board: ① ~ ⑨

Note: Be sure to tighten the screws ⑥ ~ ⑨ in numerical order given. Otherwise motor position may be displaced and decrease the performance.



SECTION 3
ADJUSTMENTS

TC-K555 TC-K555

3-1. MECHANICAL ADJUSTMENTS

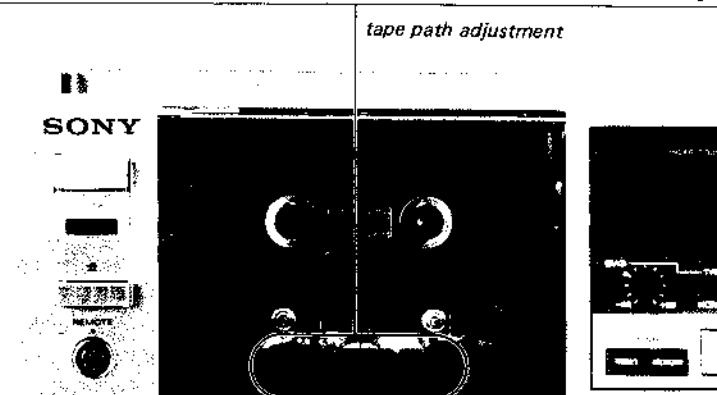
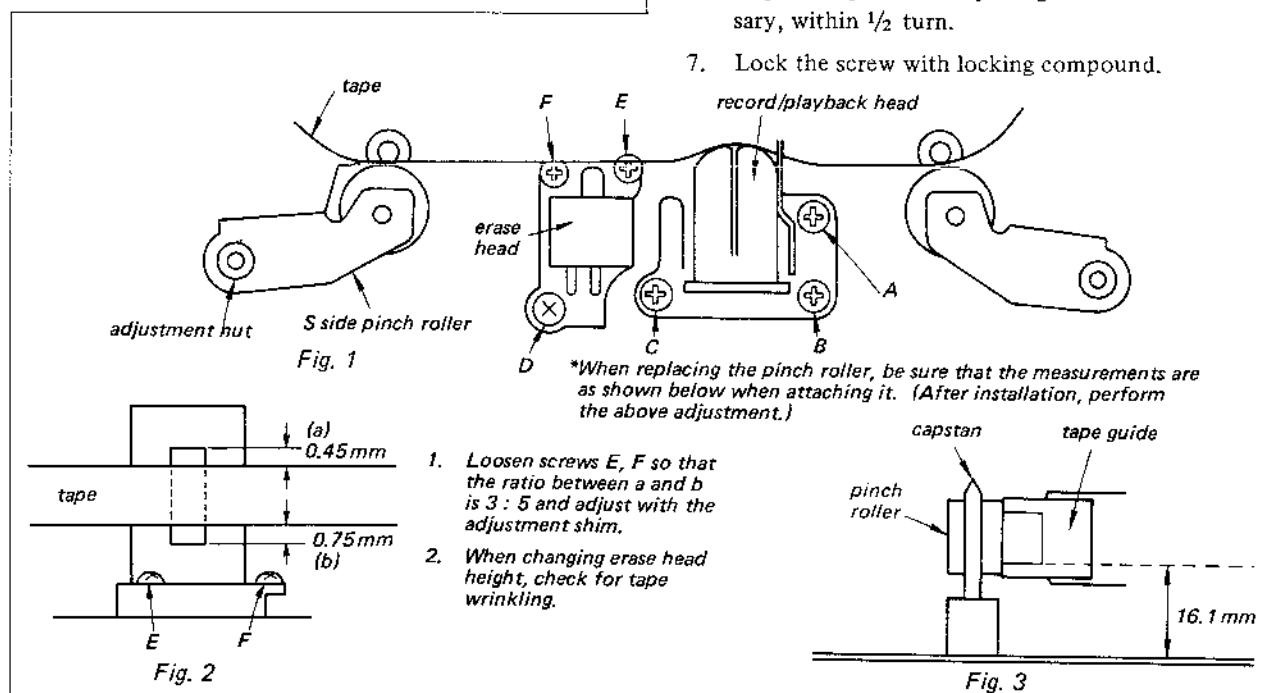
PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idle
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

FF/REW Torque Measurement

Torque	Torque meter	Meter reading
F.F. REW	CQ-201B	65 - 85 g·cm

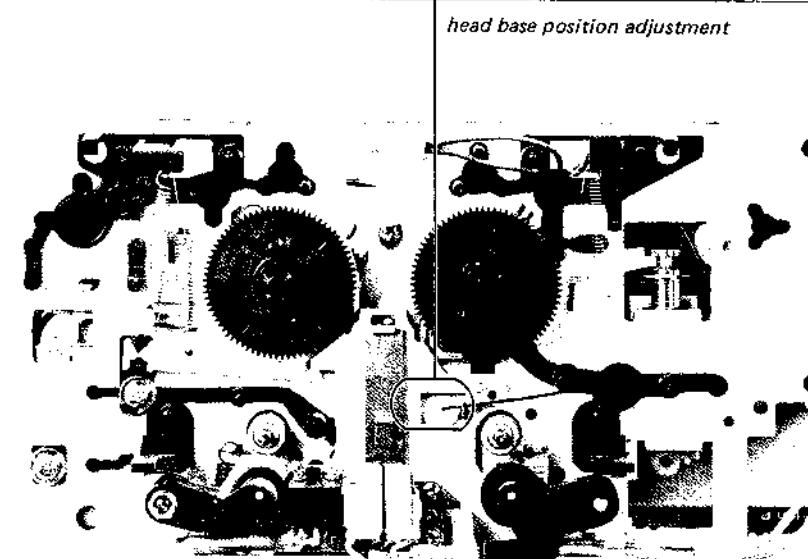
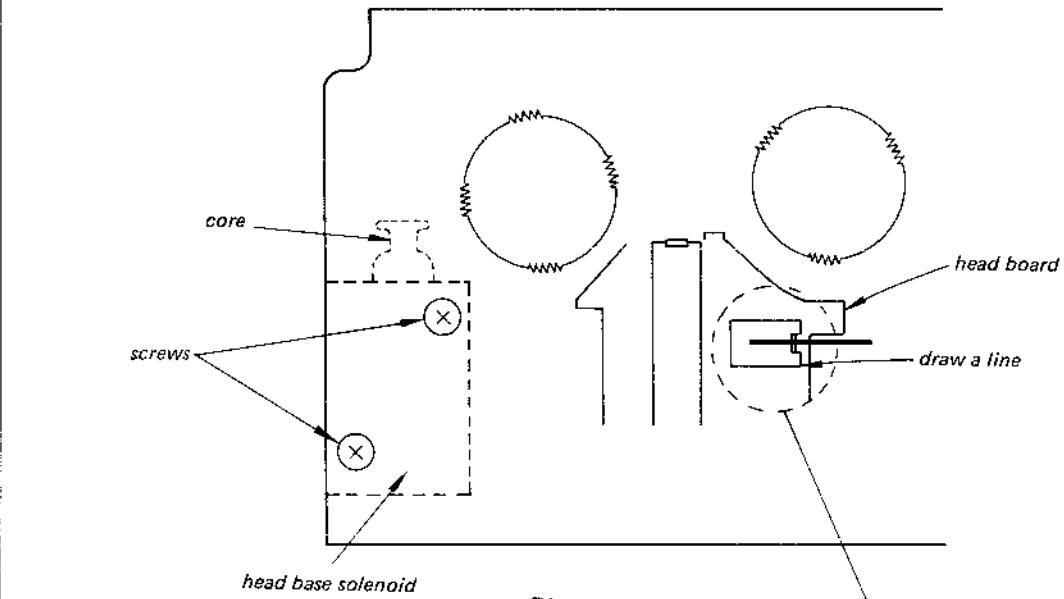


Head Base Position Adjustment

Perform the following adjustment when replacing the head base solenoid.

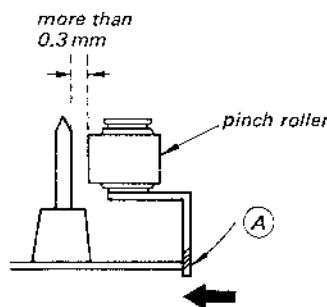
Perform with the old head base solenoid still in place.

- Press the head base solenoid core with the finger until the head base stops moving.
- Draw a line as shown in Figure 2. Replace with the new head base solenoid.
- Loosen the mounting screw, match with the line drawn in step 2, and tighten the screw.
- Lock the screw after adjustment.



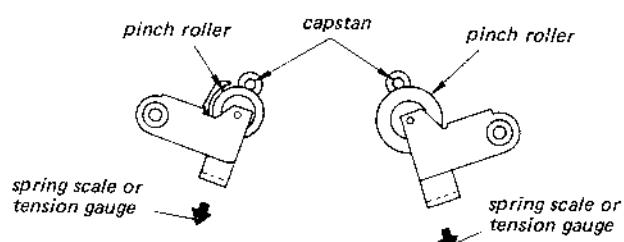
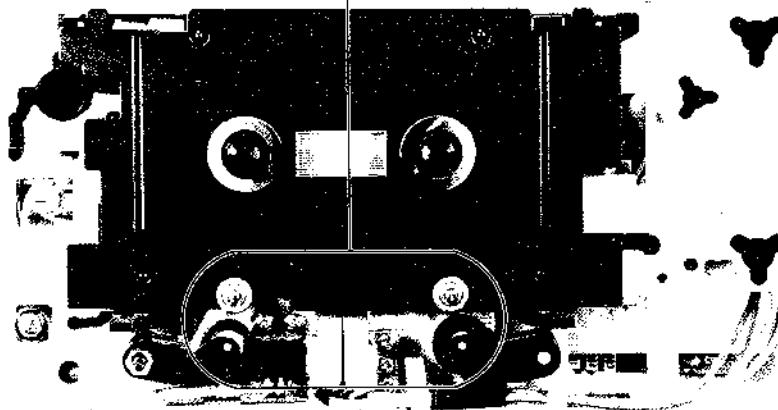
Pinch Roller Clearance Adjustment

1. Confirm that the clearance between the pinch roller and capstan is more than 0.3 mm in pause mode.
2. If it is less than 0.3 mm, bend (A) in the direction of the arrow.

**Pinch Roller Pressure Measurement**

1. Confirm that the pinch roller is parallel to the capstan.
2. Set in forward, move the pinch roller away from the capstan, then back toward it, and measure the value at the point where the pinch roller begins to rotate.

T side 270 – 330 g
S side 180 – 280 g

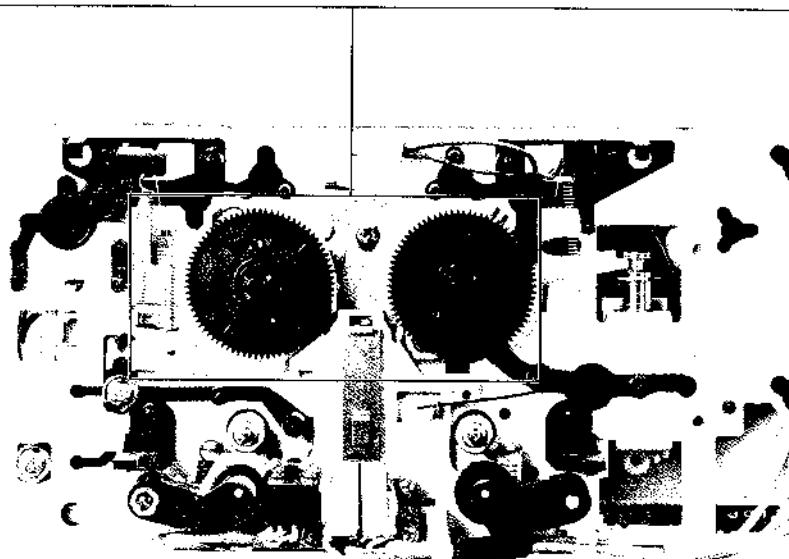
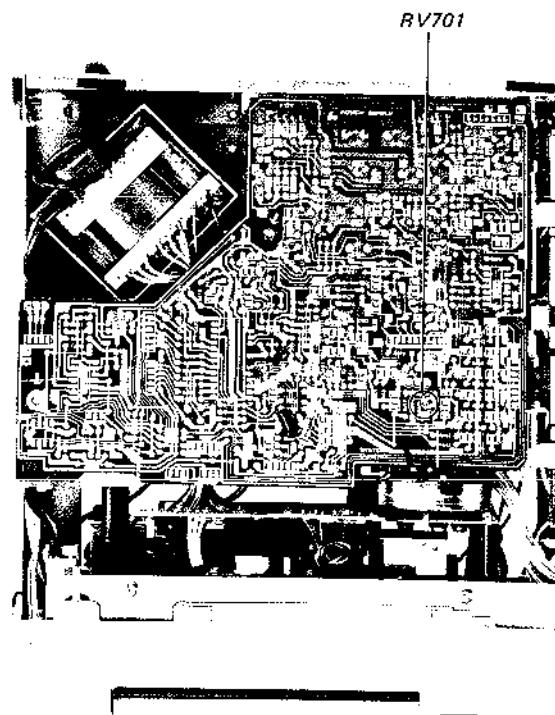
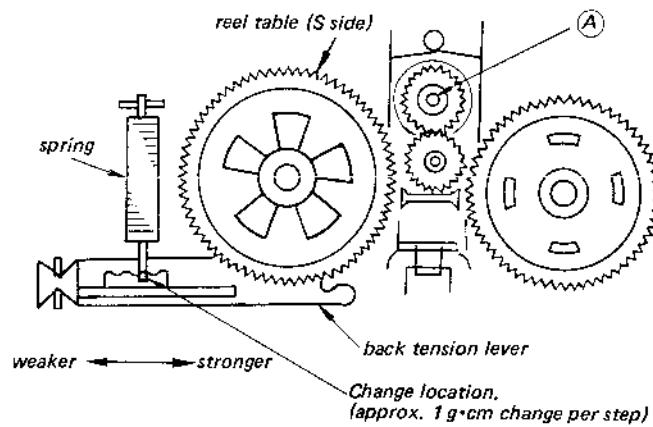
*pinch roller clearance adjustment*

Forward Torque Adjustment

1. Remove the ornamental plate.
2. Press the cassette detection switch and T side reel table simultaneously by hand and then press the forward button. In this state, hold the T reel table so that it does not rotate.
3. Now adjust RV701 to the position where **(A)** begins to rotate.
(It will shut off immediately, so press the forward button to repeat.)
4. Next insert CQ-102C, and measure forward torque and back tension torque. If back tension torque is not within the specifications, change the location where the spring is hooked.

Specifications:

forward torque: $30 - 60 \text{ g}\cdot\text{cm}$
back tension torque: $7 - 9 \text{ g}\cdot\text{cm}$



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 switches according to the tape as follows.

Tape	TAPE switch
CS-15	TYPE I
CS-20	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

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

DOLBY NR switch:	OFF
TAPE switch:	TYPE 1
TIMER switch:	OFF
LINE OUT/HEADPHONES:	MAX

- 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

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

Standard Output Level

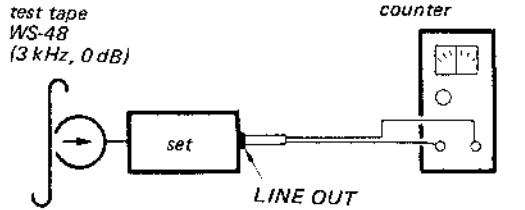
	HEADPHONES	LINE OUT
load impedance	8 Ω	47 kΩ
output level	77 mV (-20 dB)	0.44 V (-5 dB)

Tape Speed adjustment

Procedure:

Mode: playback

speed checker
LFM-30
or
digital frequency counter

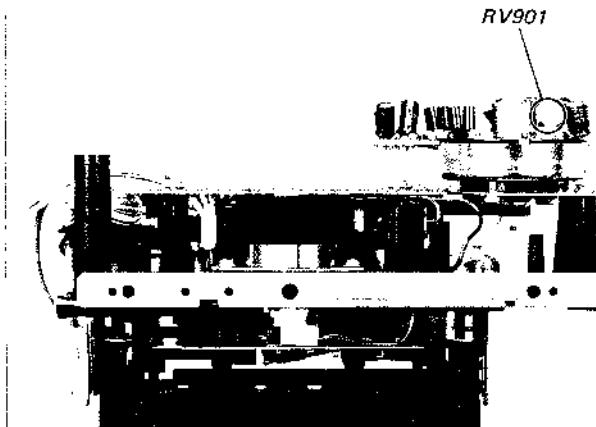


Specification:

Speed checker	Digital frequency counter
-0.17 to +0.17%	2,995 – 3,005 Hz

Frequency difference between the beginning and the end of the tape should be within 0.34% (10 Hz).

Adjustment Location:

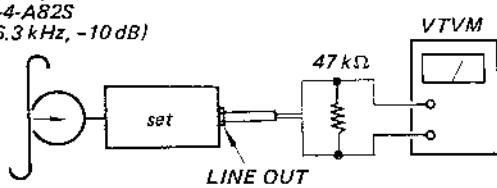


Record/playback Head Azimuth Adjustment

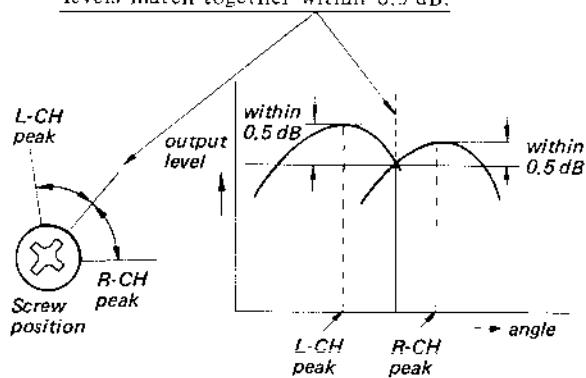
Procedure:

- Mode: playback

test tape
P-4-A82S
(6.3 kHz, -10 dB)

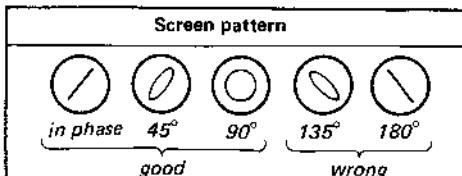
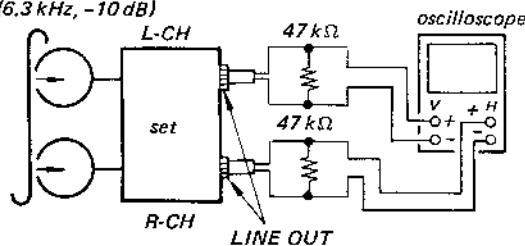


- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.

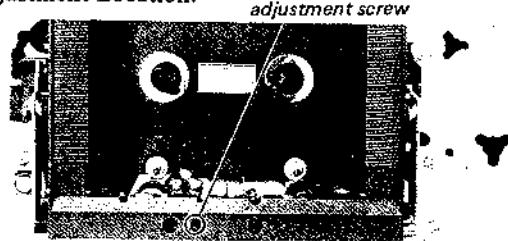


- Phase Check
Mode: playback

test tape
P-4-A82S
(6.3 kHz, -10 dB)



Adjustment Location:

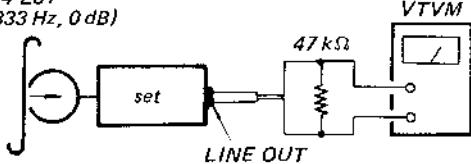


Playback Level Adjustment

Procedure:

- Mode: playback

test tape
P-4-L81
(333 Hz, 0 dB)



Specification:

LINE OUT level: 0.52 ~ 0.59 V
(-3.5 ~ -2.5 dB)

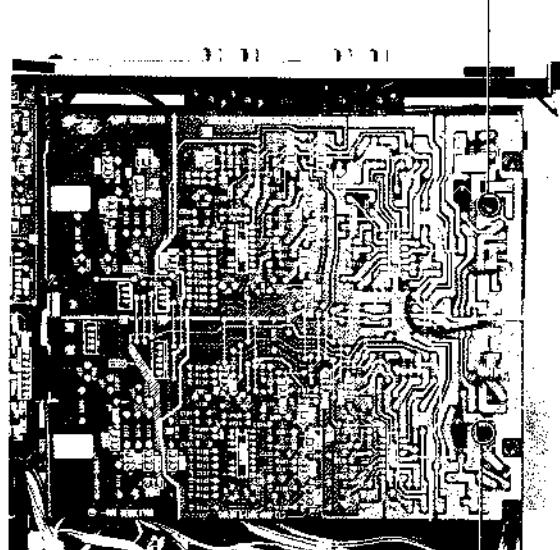
Level difference between channels:
less than 0.5 dB

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 —

RV201
(R-CH)

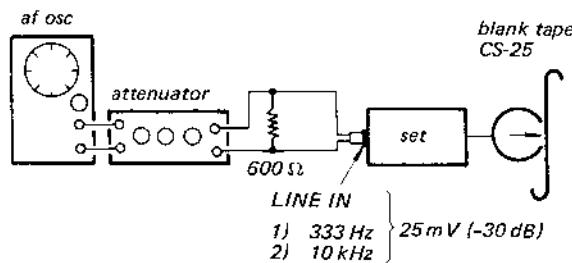


Record Bias Adjustment**Setting:**

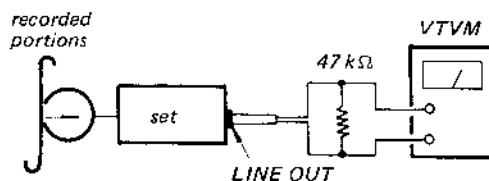
REC LEVEL control: standard record
(See page 27)

Procedure:

1. Mode: record



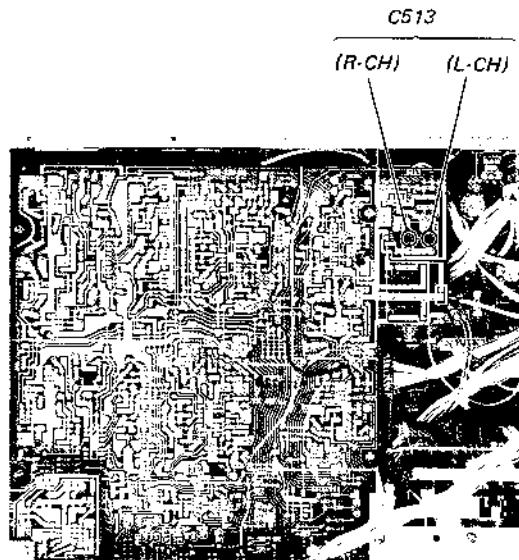
2. Mode: playback



Adjust C513 (L-CH), (R-CH) so that the LINE OUT level of 333 Hz signal is 0 dB relative to that of 10 kHz.

Adjusting Location:

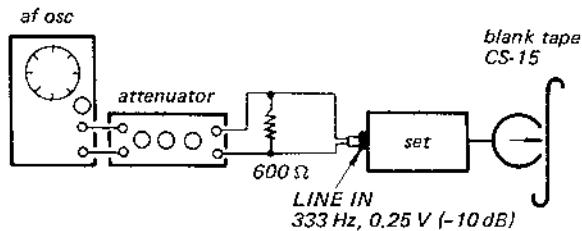
— record/playback board —

**Record Level Adjustment****Setting:**

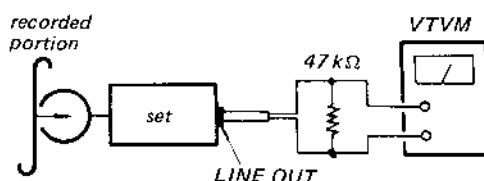
REC LEVEL control: standard record
(See page 27)

Procedure:

1. Mode: record



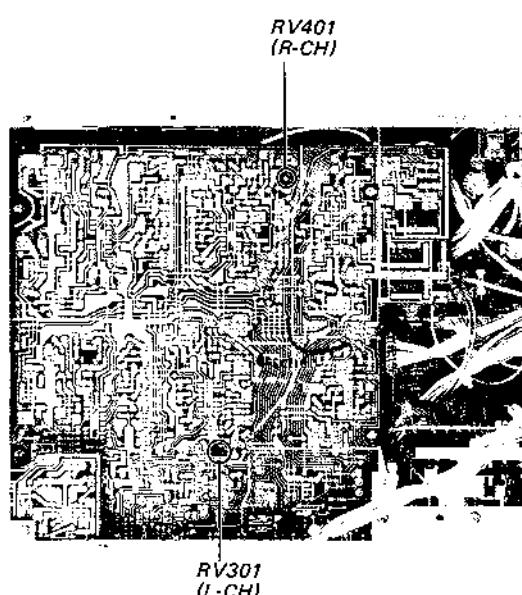
2. Mode: playback

**Specification:**

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

Adjustment Location:

— record/playback board —



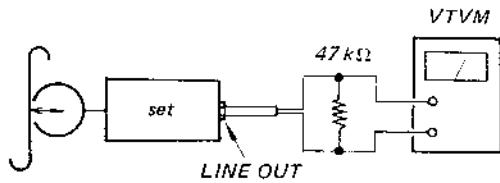
Bias Trap Adjustment

Setting:

MONITOR: TAPE
TAPE: TYPE IV

Procedure:

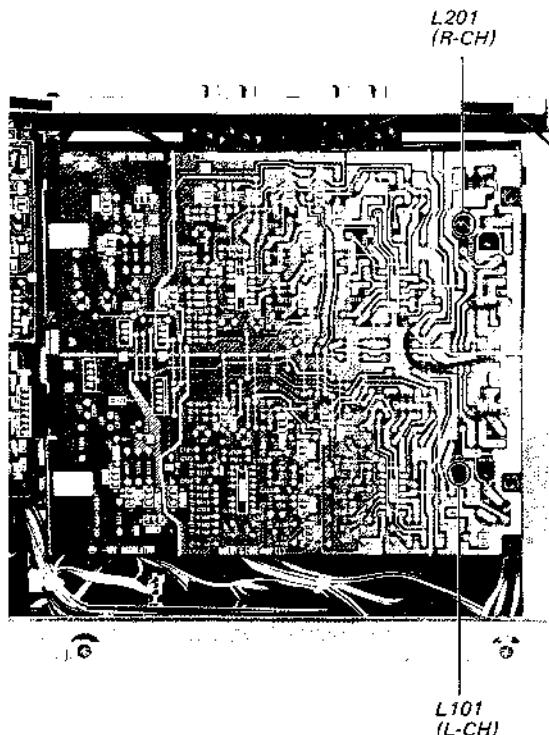
- record and playback mode



In record and forward mode, adjust L101 (L-CH), L201 (R-CH) so that the LINE OUT level is minimum on the VTVM.

Adjustment Location:

— record/playback board —

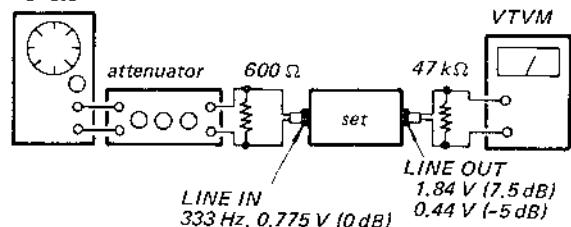


Level Meter Calibration

Procedure:

- Mode: record

af osc

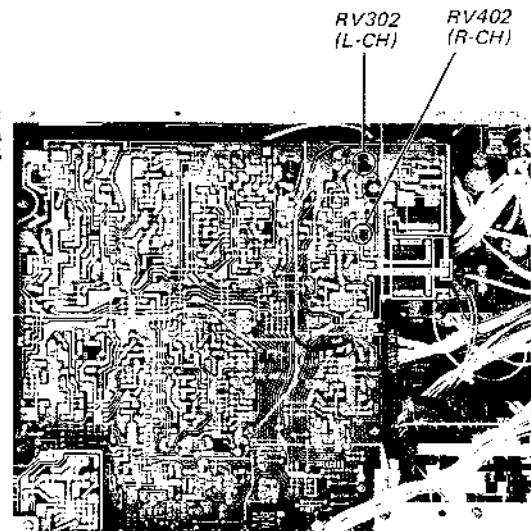


- Set the REC LEVEL control so that the LINE OUT level is -5 dB.
- Adjust RV302 (L-CH) and RV402 (R-CH) so that the LEDs including 4 dB (right-most element) light up.
- Set the REC LEVEL control so that the LINE OUT level is -8 dB.
Make sure that LED meter indicates -4 dB (0 VU) in this time.

Note: Slide the REC LEVEL control rightward slowly. (Be careful to peakhold indication.)

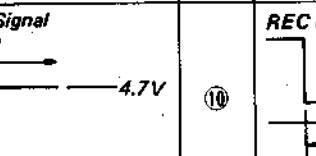
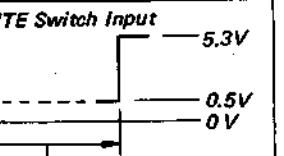
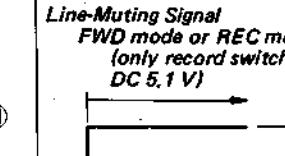
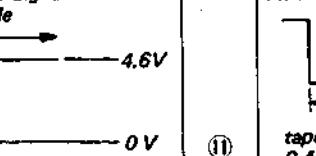
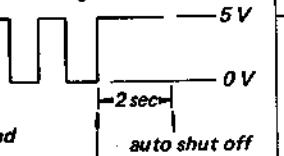
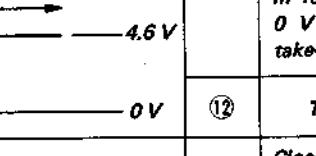
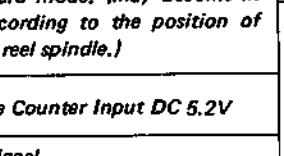
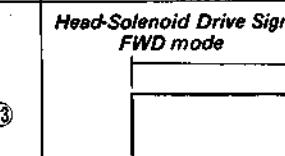
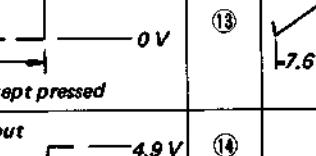
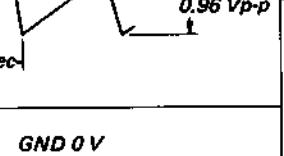
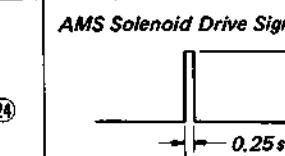
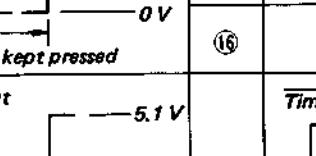
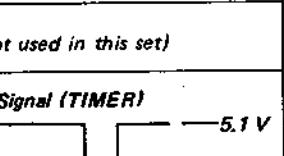
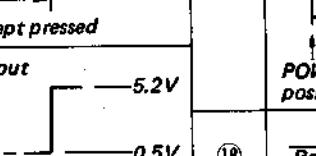
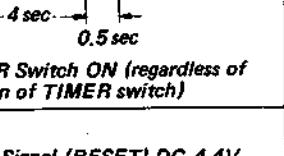
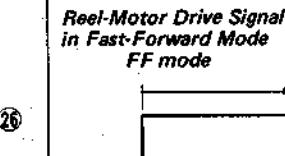
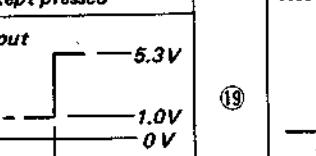
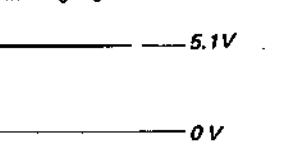
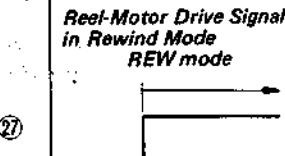
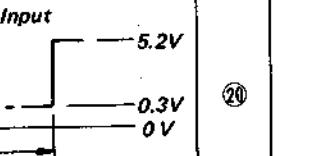
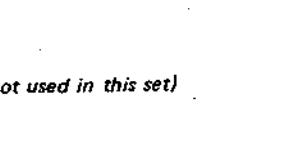
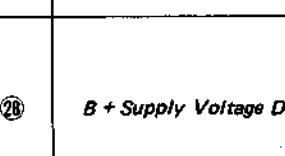
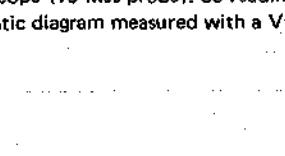
Adjustment Location:

— record/playback board —



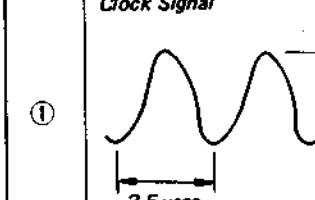
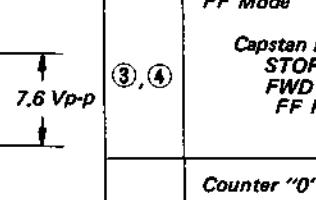
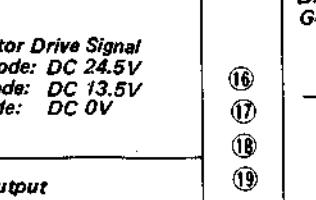
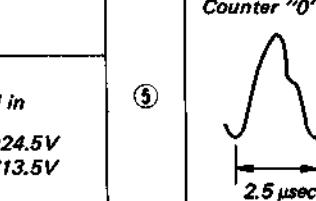
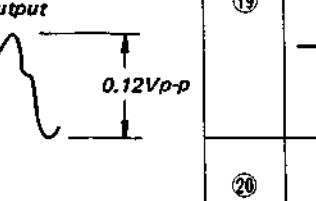
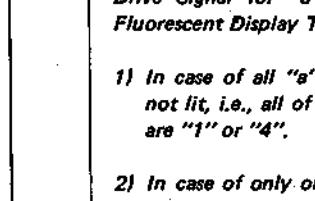
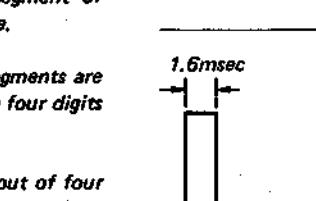
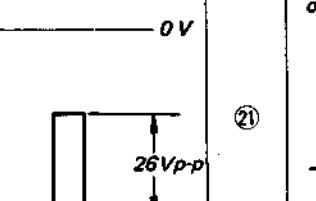
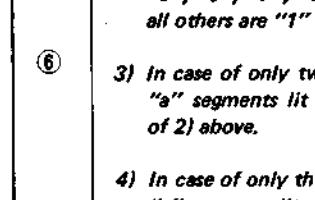
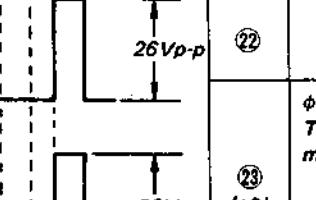
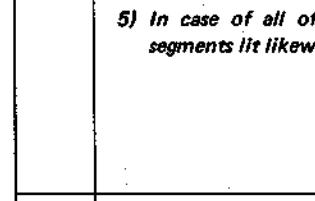
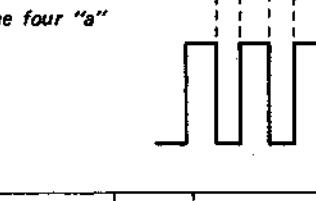
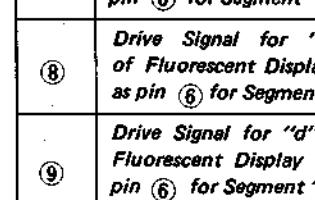
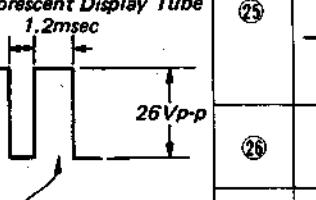
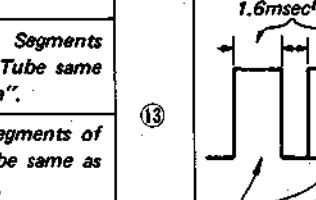
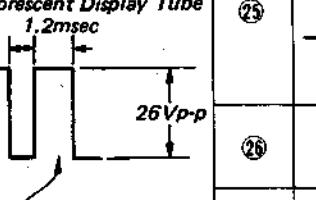
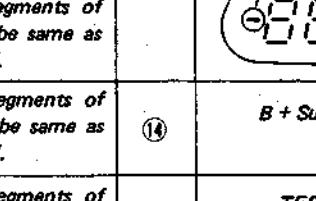
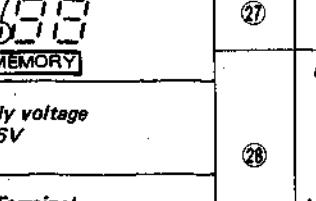
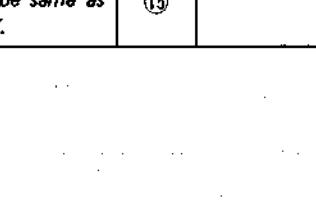
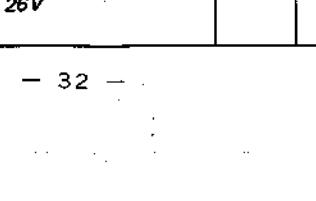
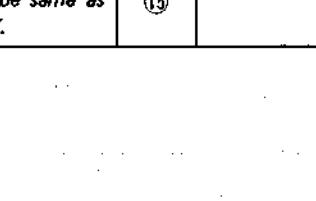
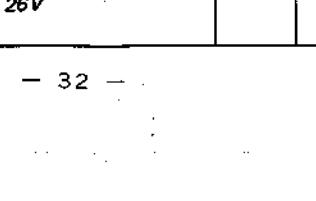
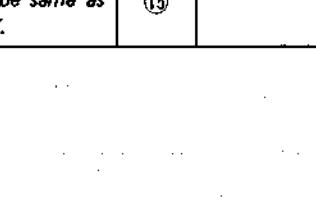
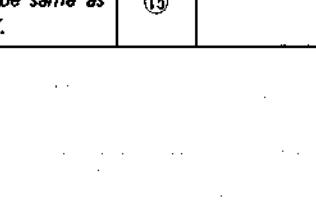
TC-K555 TC-K555

IC601's Terminal Name, Waveform and/or Voltages

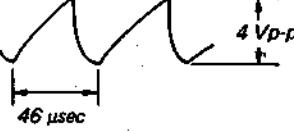
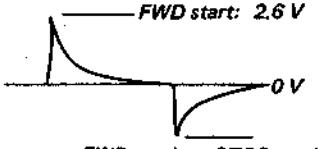
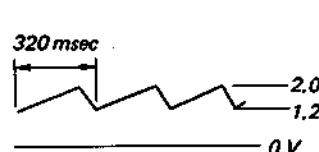
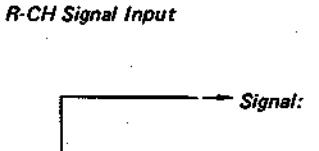
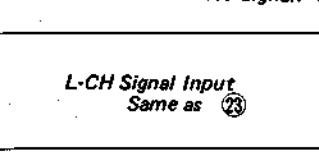
Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
①	REC lamp Drive Signal REC mode 	⑩	REC MUTE Switch Input  REC MUTE button kept pressed	⑪	Line-Muting Signal FWD mode or REC mode (only record switch ON DC 5.1V) 
②	FWD Lamp Drive Signal FWD mode 	⑫	Auto Shut-Off Signal  tape end 0.4 sec 2 sec auto shut off	⑬	(not used in this set)
③	PAUSE Lamp Drive Signal PAUSE mode 	⑭	Tape Counter Input DC 5.2V 	⑮	Head-Solenoid Drive Signal FWD mode 
④	STOP Input  stop button kept pressed	⑯	Clock Signal 	⑰	AMS Solenoid Drive Signal 
⑤	REW Switch Input  REW button kept pressed	⑱	GND 0V 	⑲	(not used in this set)
⑥	FF Switch Input  FF button kept pressed	⑳	POWER Switch ON (regardless of position of TIMER switch) 	㉑	Reel-Motor Drive Signal in Fast-Forward Mode FF mode 
⑦	FWD Switch Input  FWD button kept pressed	㉒	Reset Signal (RESET) DC 4.4V 	㉓	Record-Muting Signal 
⑧	REC Switch Input  REC button kept pressed	㉔	REC MUTE switch ON in record mode 	㉕	Reel-Motor Drive Signal in Rewind Mode REW mode 
⑨	PAUSE Switch Input  PAUSE button kept pressed	㉖	(not used in this set)	㉗	B + Supply Voltage DC 6V 

Note: Voltages are measured with an oscilloscope (10 MΩ probe). So readings are different from the mounting diagram and schematic diagram measured with a VOM.

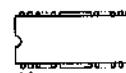
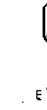
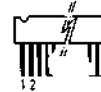
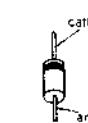
IC802's Terminal Name, Waveform and/or Voltages

Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
①	Clock Signal 	③, ④	FF Mode Capstan Motor Drive Signal STOP mode: DC 24.5V FWD mode: DC 13.5V FF Mode: DC 0V 	⑯	Drive Signal for Grids G1 through G4 of Fluorescent Display Tube 
②	(not used in this set)	⑤	Reel Motor Drive Signal in Rewind Mode STOP mode: DC 24.5V REW mode: DC 13.5V 	㉑	B + Supply Voltage DC 26V 
⑥	Head-Solenoid Drive Signal FWD mode 	㉒	Drive Signal for "a" Segment of Fluorescent Display Tube. 1) In case of all "a" segments are not lit, i.e., all of the four digits are "1" or "4". 2) In case of only one out of four "a" segments lit, i.e., one of the four digits is "0", "2", "3", "5", "6", "7", "8", or "9" and all others are "1" or "4". 3) In case of only two out of four "a" segments lit as in the case of 2) above. 4) In case of only three out of four "a" segments lit as in the case of 2) above. 5) In case of all of the four "a" segments lit likewise. 	㉒	Drive Signal for "MEMORY" of Fluorescent Display Tube 
⑦	(not used in this set)	㉓	AMS Solenoid Drive Signal 	㉓	φ1 or φ2 - Signal Input from Photo Transistors fast forward and rewind modes: 
⑧	(not used in this set)	㉔	Reel-Motor Drive Signal in Forward Mode FWD mode 	㉔ (φ1)	Pulse width varies according to tape take-up. (Stop mode: 10.6 V DC or 0 V according to the position of photo transistors) 
⑨	(not used in this set)	㉕	Reel-Motor Drive Signal in Fast-Forward Mode FF mode 	㉕	1.5 kHz Clock Signal (INT) 
⑩	(not used in this set)	㉖	Drive Signal for "b" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉖	RESET Signal 13.5V 
⑪	(not used in this set)	㉗	Drive Signal for "c" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉗	GND (Ground) 12.5V 
⑫	(not used in this set)	㉘	Drive Signal for "d" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉘	Clock Signal 
⑬	(not used in this set)	㉙	Drive Signal for "e" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉙	TEST Terminal 26V 
⑭	(not used in this set)	㉚	Drive Signal for "f" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉚	
⑮	(not used in this set)	㉛	Drive Signal for "g" Segments of Fluorescent Display Tube same as pin ⑥ for Segment "a". 	㉛	

Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
(4)	<p>FF Mode</p> <p>Capstan Motor Drive Signal STOP mode: DC 24.5V FWD mode: DC 13.5V FF Mode: DC 0V</p>	(16) (17) (18) (19)	<p>Drive Signal for Grids G1 through G4 of Fluorescent Display Tube</p>
(5)	<p>Counter "0" Output</p>	(20)	<p>B + Supply Voltage DC 26V</p>
		(21)	<p>Drive Signal for "MEMORY" of Fluorescent Display Tube</p>
		(22)	<p>B + Supply Voltage DC 26V</p>
		(23) (24)	<p>$\phi 1$ or $\phi 2$ — Signal Input from Photo Transistors fast forward and rewind modes:</p>
		(25)	<p>Pluse width varies according to tape take-up. (Stop mode: 10.6 V DC or 0 V according to the position of photo transistors)</p>
		(26)	<p>1.5 kHz Clock Signal (INT)</p>
		(27)	<p>RESET Signal 13.5V</p>
		(28)	<p>GND (Ground) 12.5V</p>
		(29)	<p>Clock Signal</p>
(14)	<p>B + Supply voltage 26V</p>		
(15)	<p>TEST Terminal 26V</p>		

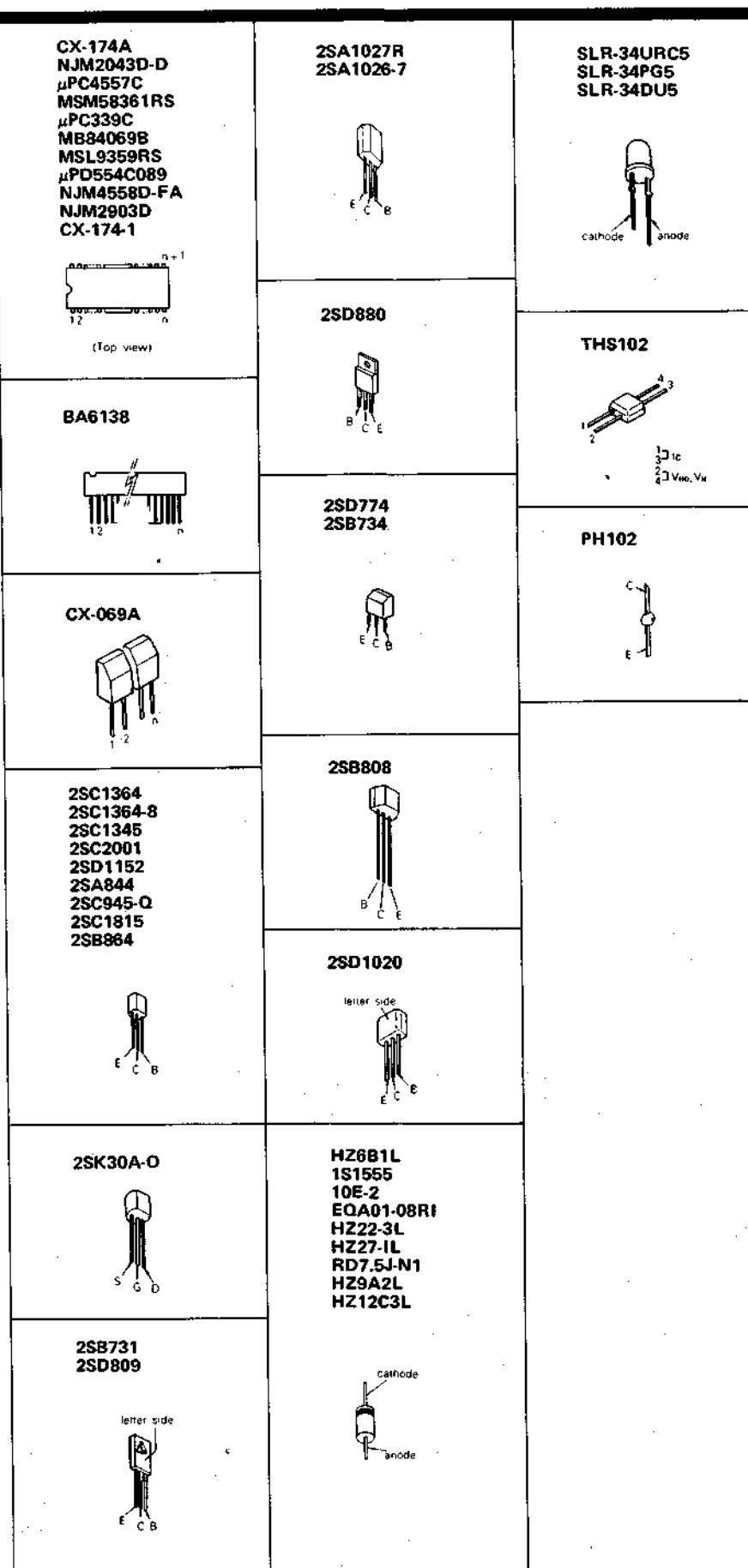
IC801's Terminal Name, Waveform and/or Voltages					
Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
①	"B2" (dot) Drive signal R and L channel signal: R or L channel signal: 20.5 V 10.5 V	⑯	(not used in this set)	⑳	R-CH Grid Control Output Signal Same as ㉕
②	"B3" (dot) Drive Signal Same as ①	⑰	GND 0 V		
③	"B4" (dot) Drive Signal Same as ①	⑱	(not used in this set)	㉑	B+ Supply Voltage: 6 V
④	"B5" (dot) Drive Signal Same as ①	⑲	Clock Signal 	㉒	B+ Supply Voltage: 22 V
⑤	"B6" (dot) Drive Signal Same as ①	㉐	Mute Signal 		
⑥	"B7" (dot) Drive Signal Same as ①	㉑	(not used in this set)		
⑦	"B8" (dot) Drive Signal Same as ①	㉒	MEMORY RESET Input Signal 		
⑩	"B11" (dot) Drive Signal Same as ①	㉓	R-CH Signal Input 		
⑪	"B12" (dot) Drive Signal Same as ①	㉔	L-CH Signal Input Same as ㉓		
⑫	"B13" (dot) Drive Signal Same as ①	㉕	L-CH Grid Control Output Signal 		
⑬	"B14" (dot) Drive Signal Same as ①				
⑭	"B15" (dot) Drive Signal Same as ①				
⑮	"B16" (dot) Drive Signal Same as ①				

Semiconductor Lead Layouts

<p>CX-174A NJM2043D-D μPC4557C MSM58361RS μPC339C MB84069B MSL9359RS μPD554C089 NJM4558D-F NJM2903D CX-174-1</p>  <p>(Top view)</p>	<p>2SA1027R 2SA1026-7</p> 
<p>BA6138</p> 	<p>2SD880</p> 
<p>CX-069A</p> 	<p>2SD774 2SB734</p> 
<p>2SC1364 2SC1364-8 2SC1345 2SC2001 2SD1152 2SA844 2SC945-Q 2SC1815 2SB864</p> 	<p>2SB808</p> 
<p>2SK30A-O</p> 	<p>2SD1020</p> 
<p>2SB731 2SD809</p> 	<p>HZ6B1L 1S1565 10E-2 EQA01-08RI HZ22-3L HZ27-1L RD7.5J-N1 HZ9A2L HZ12C3L</p> 

Terminal Name, Waveform and/or Voltages			
Pin No.	Waveform and/or Voltages	Pin No.	Waveform and/or Voltages
⑯	(not used in this set)	⑯	R-CH Grid Control Output Signal Same as ⑮
⑰	GND 0 V		
⑱	(not used in this set)	⑰	B+ Supply Voltage: 6 V
⑲	Clock Signal 	⑲	B+ Supply Voltage: 22 V
⑳	Mute Signal FWD start: 2.6 V FWD mode → STOP mode: -2.6 V		
㉑	(not used in this set)		
㉒	MEMORY RESET Input Signal 		
㉓	R-CH Signal Input Signal: 1 V No Signal: 0 V		
㉔	L-CH Signal Input Same as ㉓		
㉕	L-CH Grid Control Output Signal 1.3 msec 		
㉖	2.2 msec		

Semiconductor Lead Layouts



SECTION 4 DIAGRAMS

TC-K555

A

C

L

L

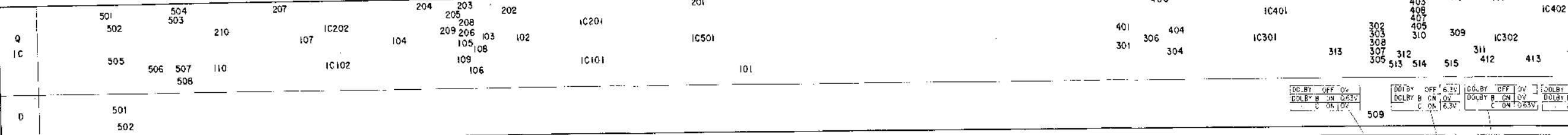
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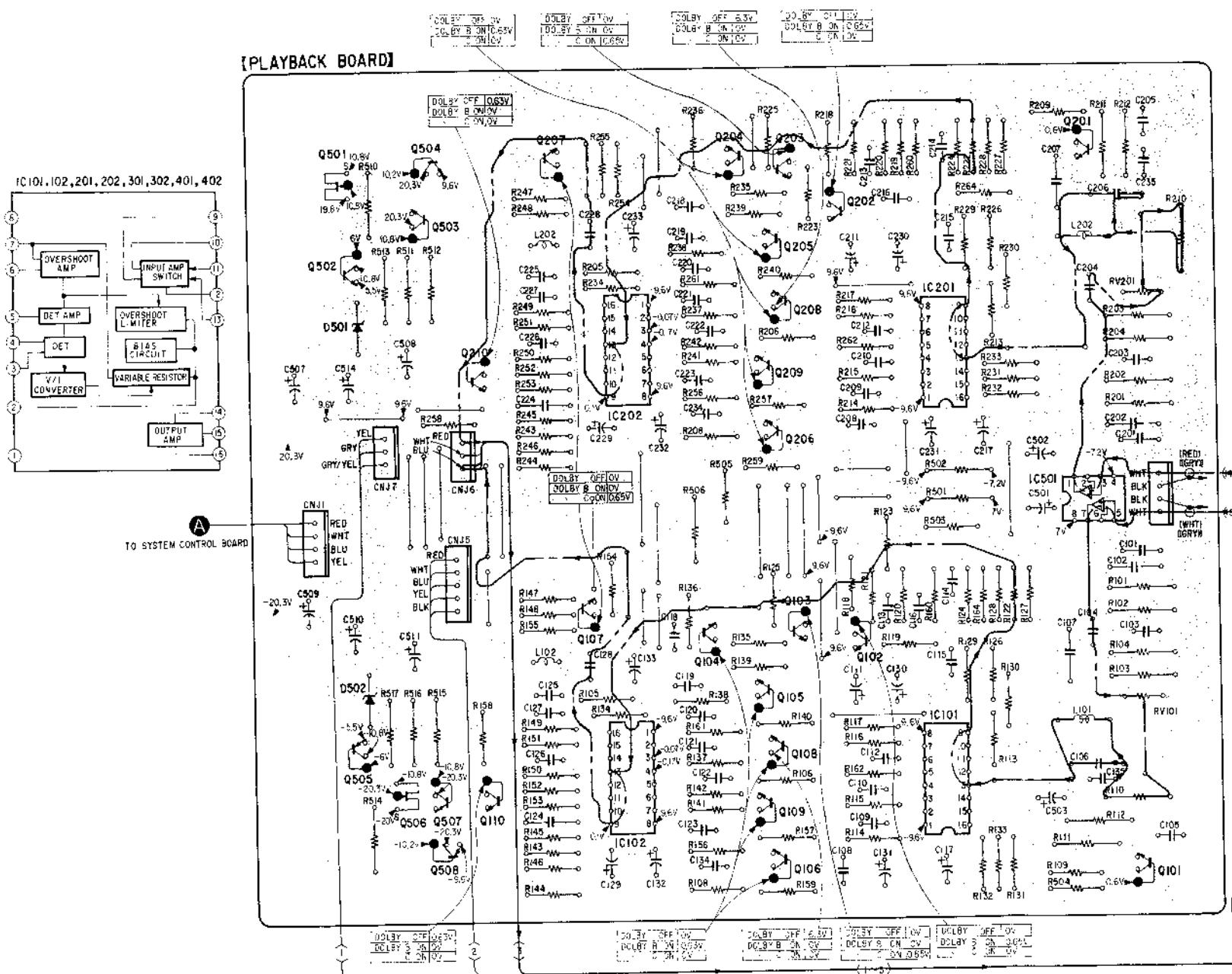
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4-1. MOUNTING DIAGRAM

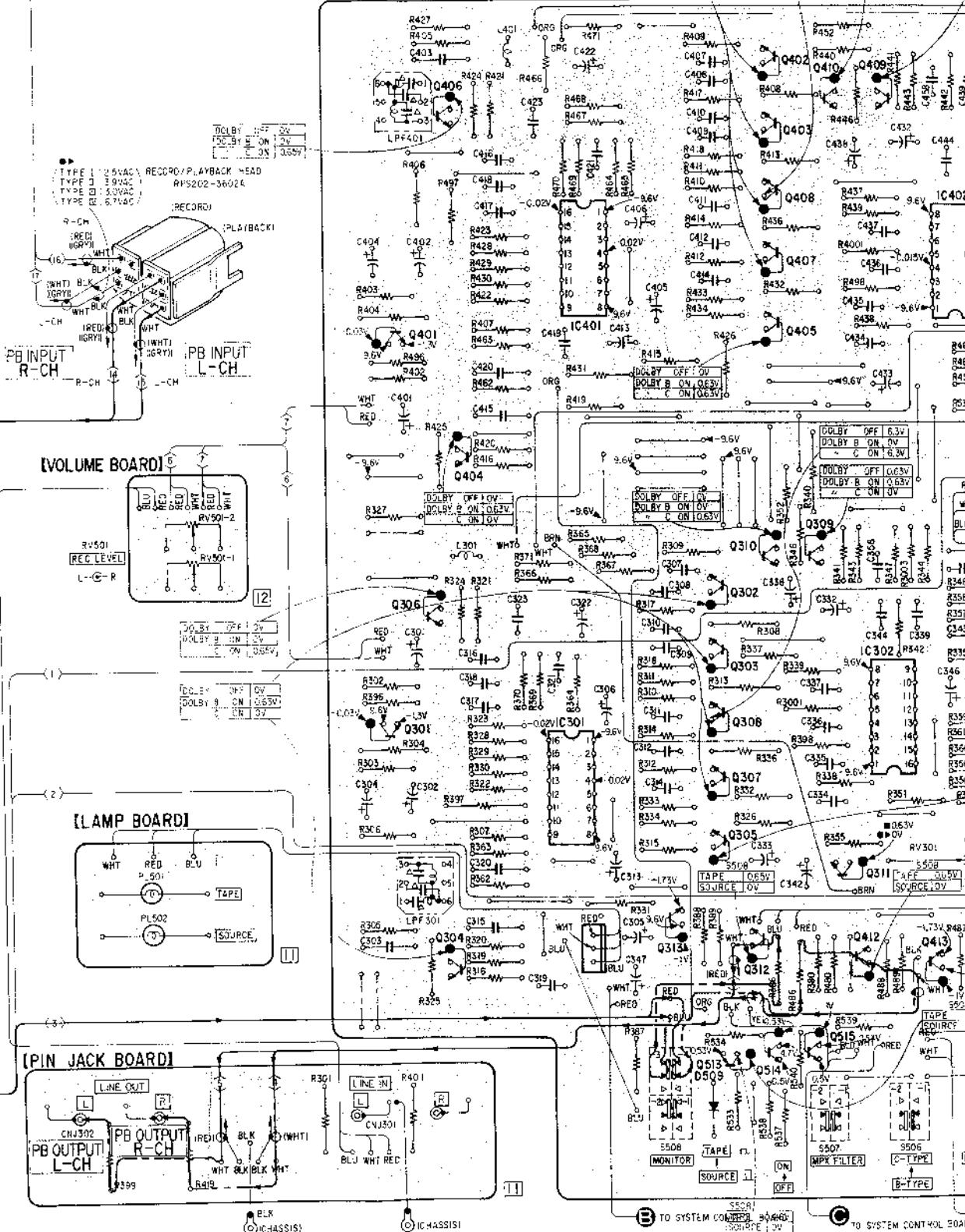
- Amp Section -

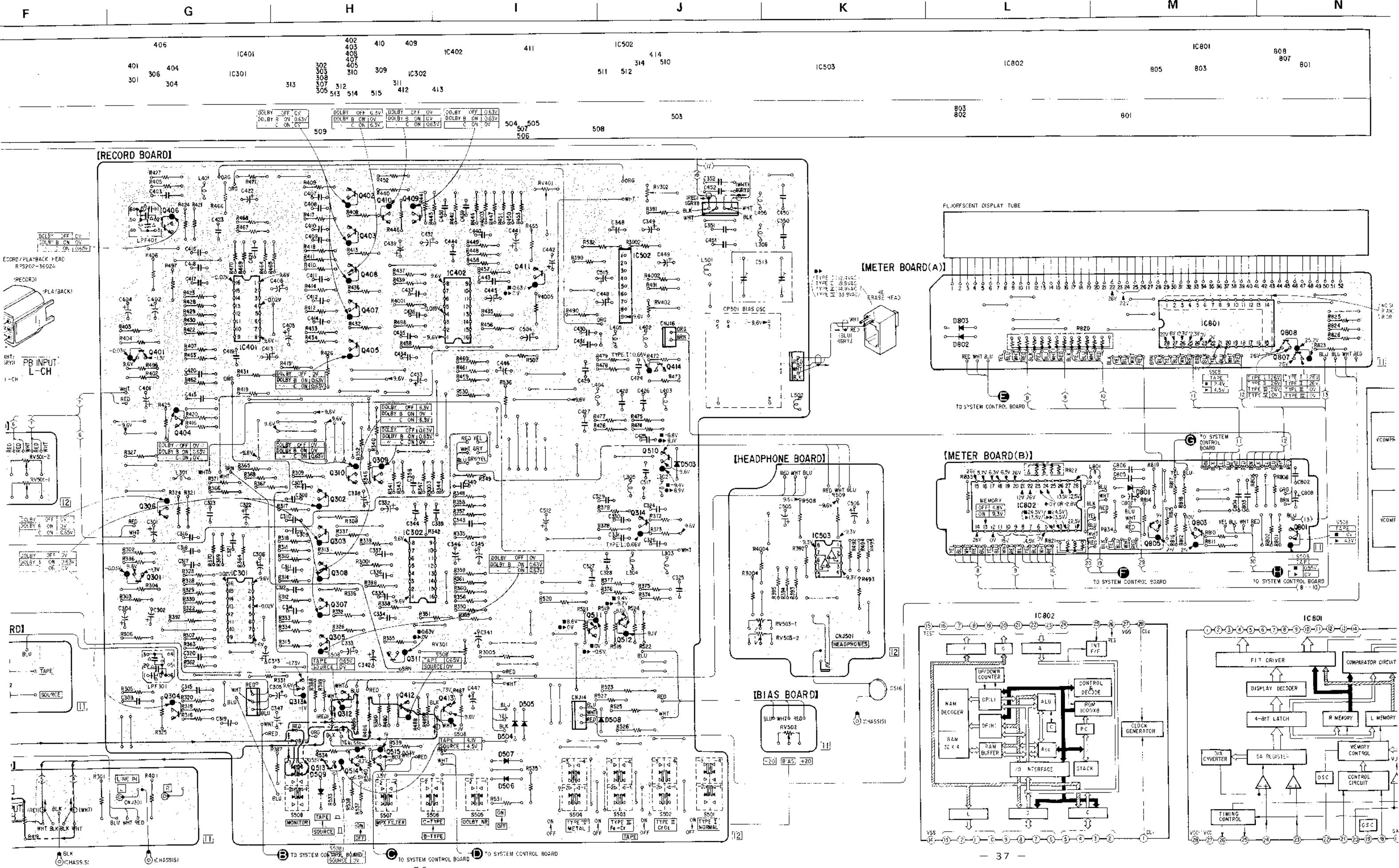


[FBI AIRBACK BOARD]



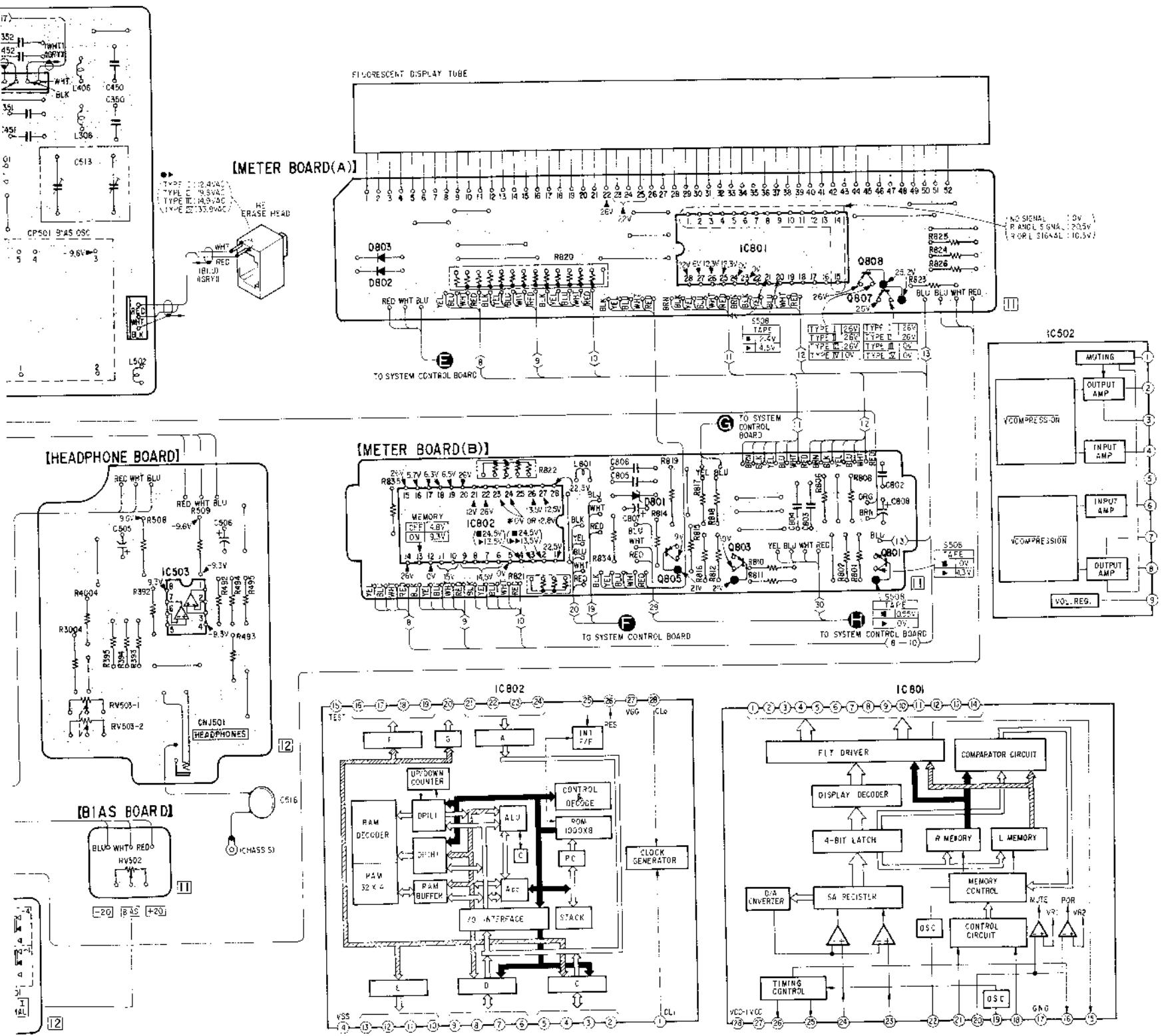
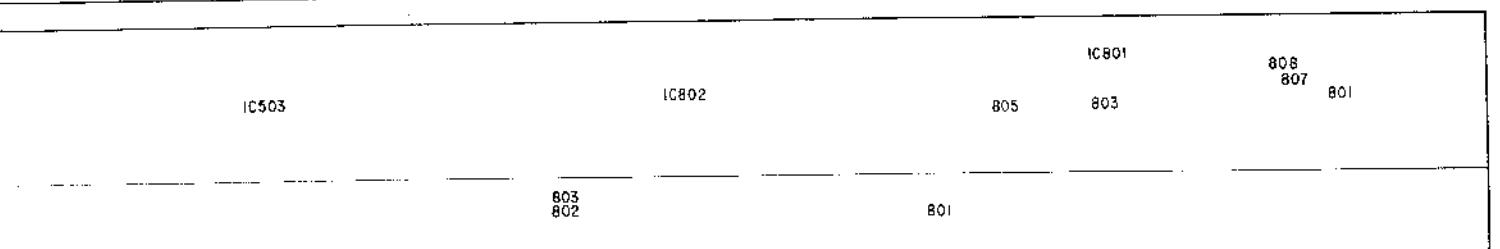
[RECORD BOARD]





TC-K555 **TC-K555**

K — T — M — Z — C — Y — R



Note:

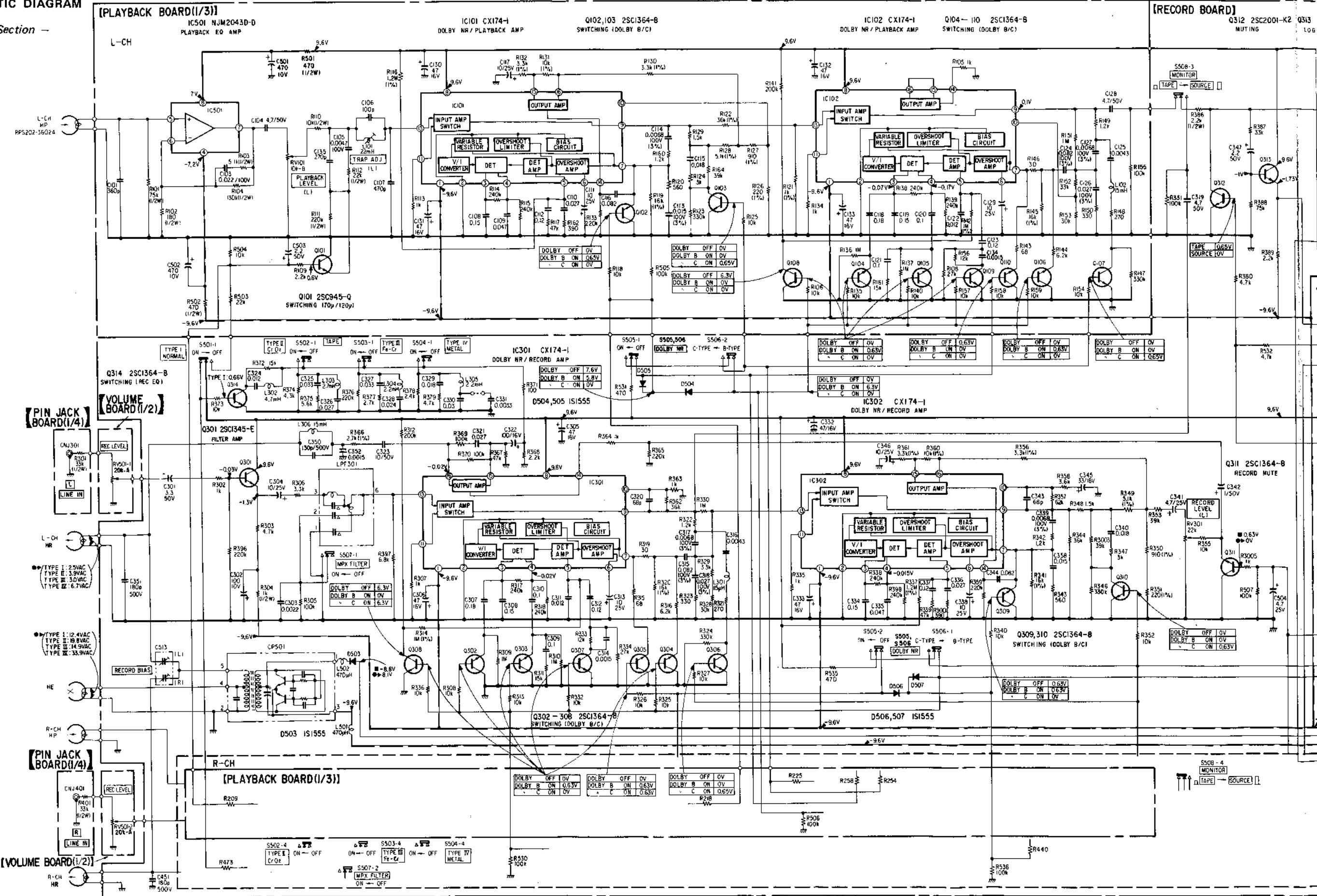
- — : parts extracted from the component side.
 - —— : parts extracted from the conductor side.
 - ■ : part mounted on the conductor side.
 - : B + pattern

 - → : signal path
 - → : L-CH signal path
 - → : R-CH signal path

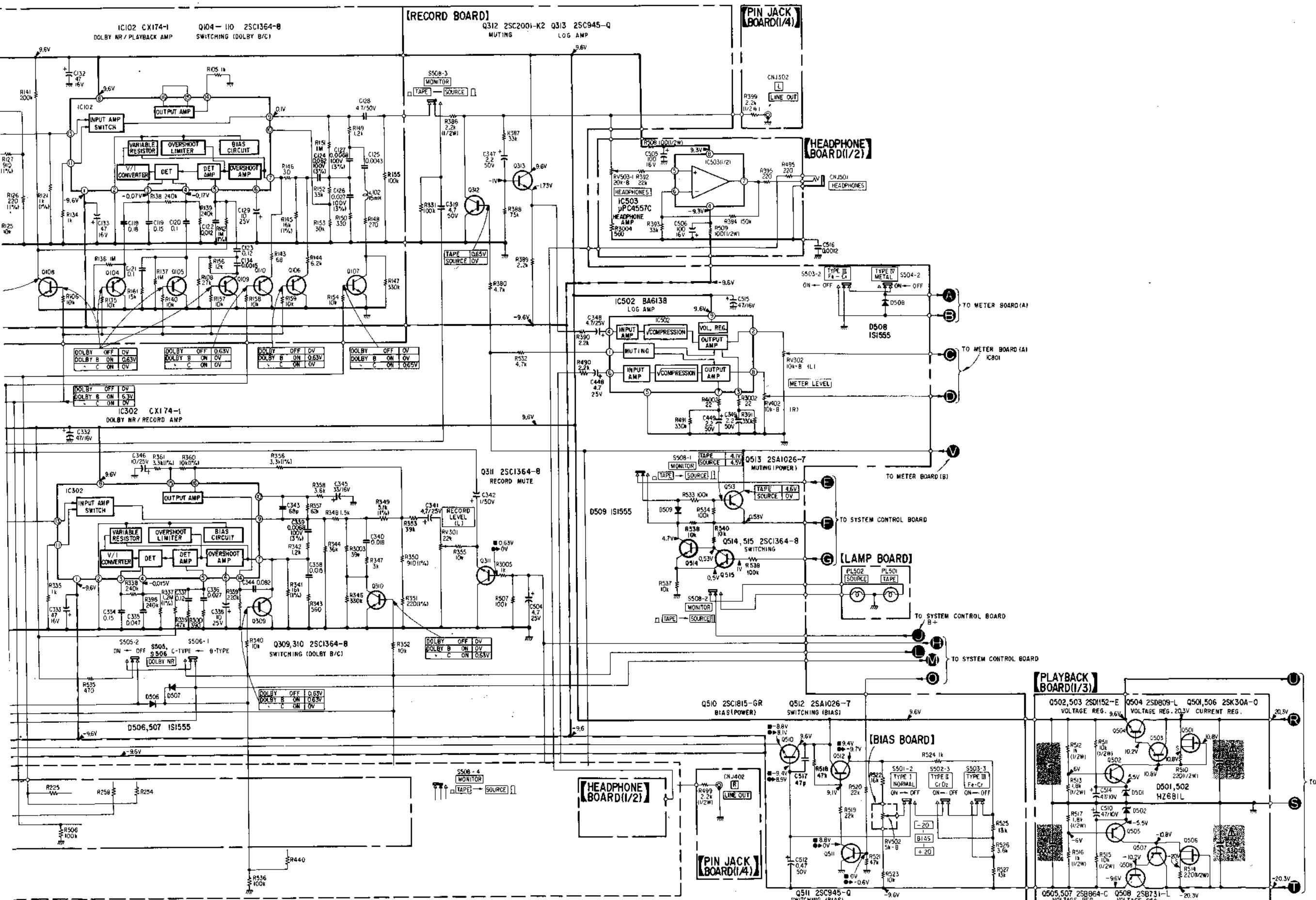
A B C D E F G H

4-2. SCHEMATIC DIAGRAM

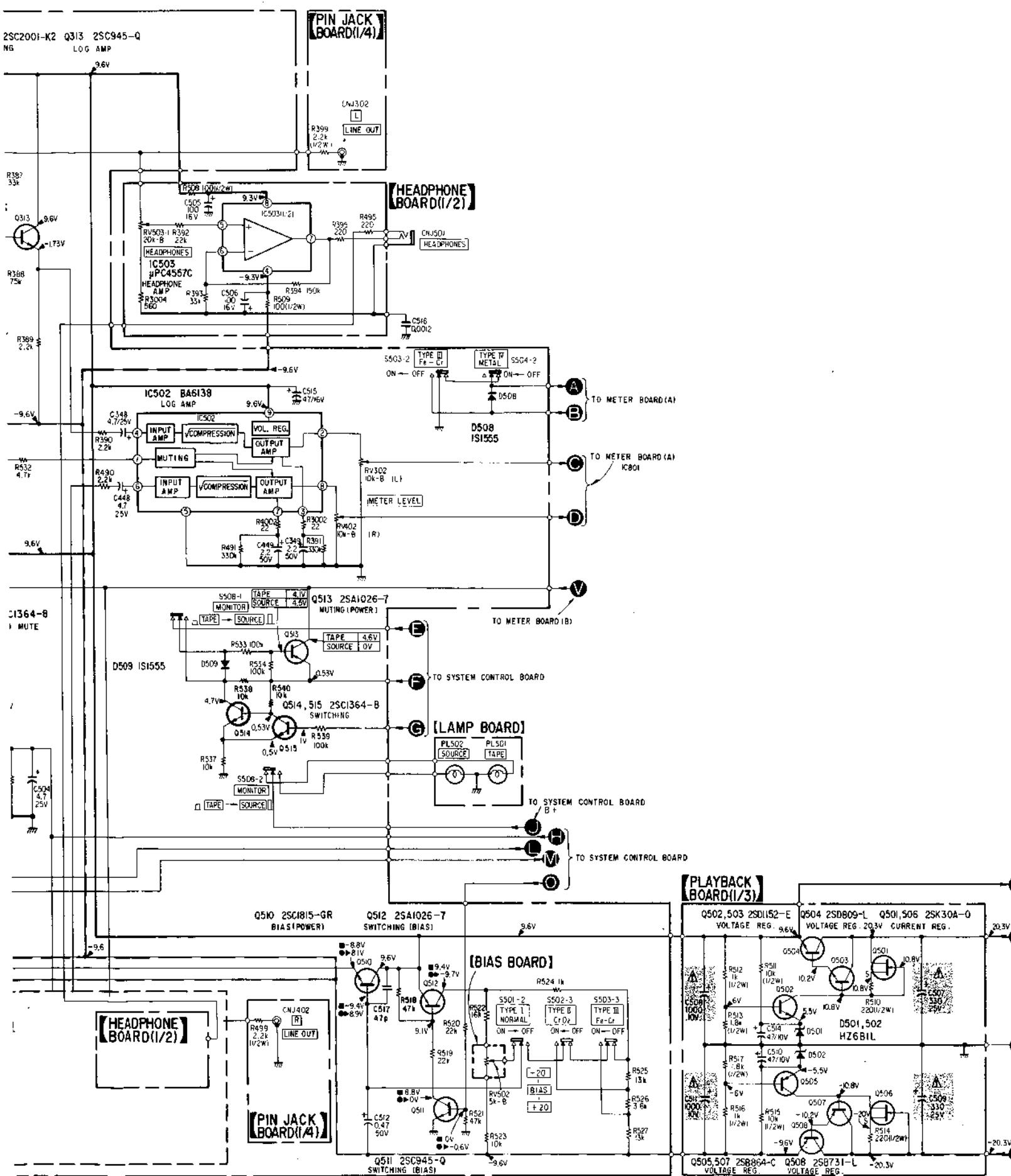
— Amp Section —



F G H I J K L M



- All capacitors are in μ F unless otherwise specified.
- All resistors are in ohms, $1/4$ W unless otherwise specified.
- Panel designation.
- Adjustment for repair.
- B+ bus.
- B- bus.
- Readings are taken under no-signal condition.
- AC voltage readings in the bias oscillator.



Note:

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

Note: Voltages are measured with a VOM ($50k\Omega/V$).

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

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

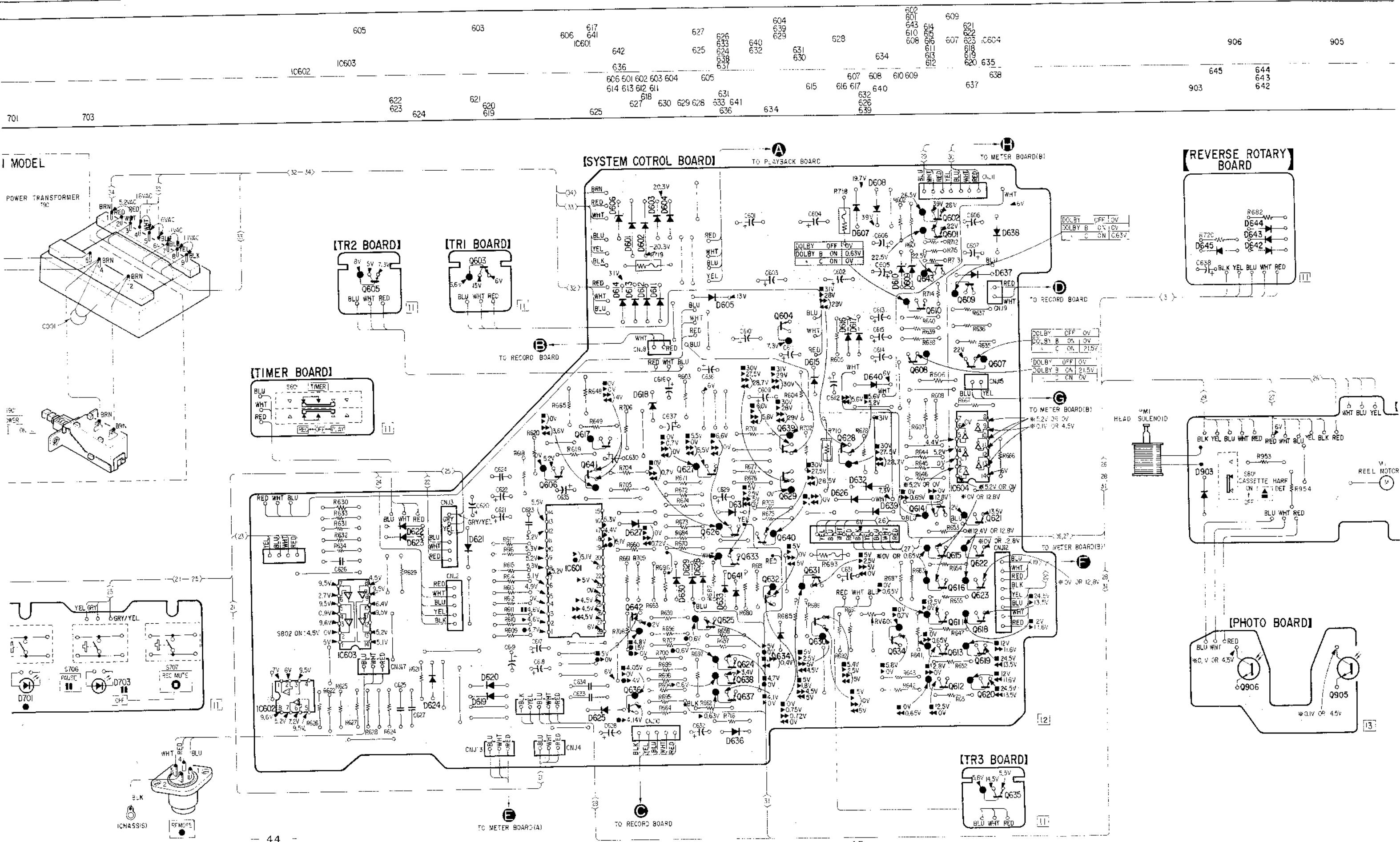
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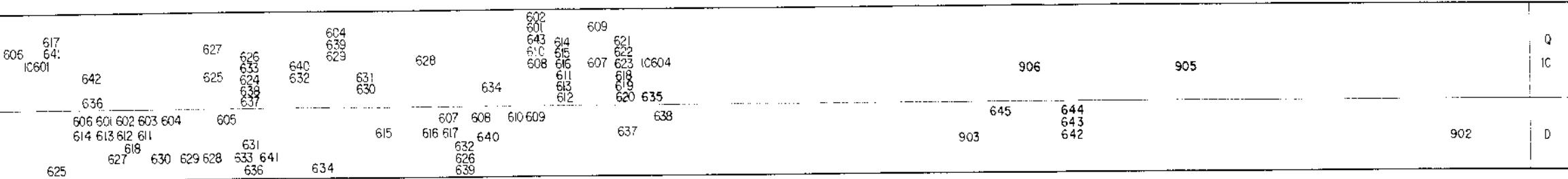
J

K

L

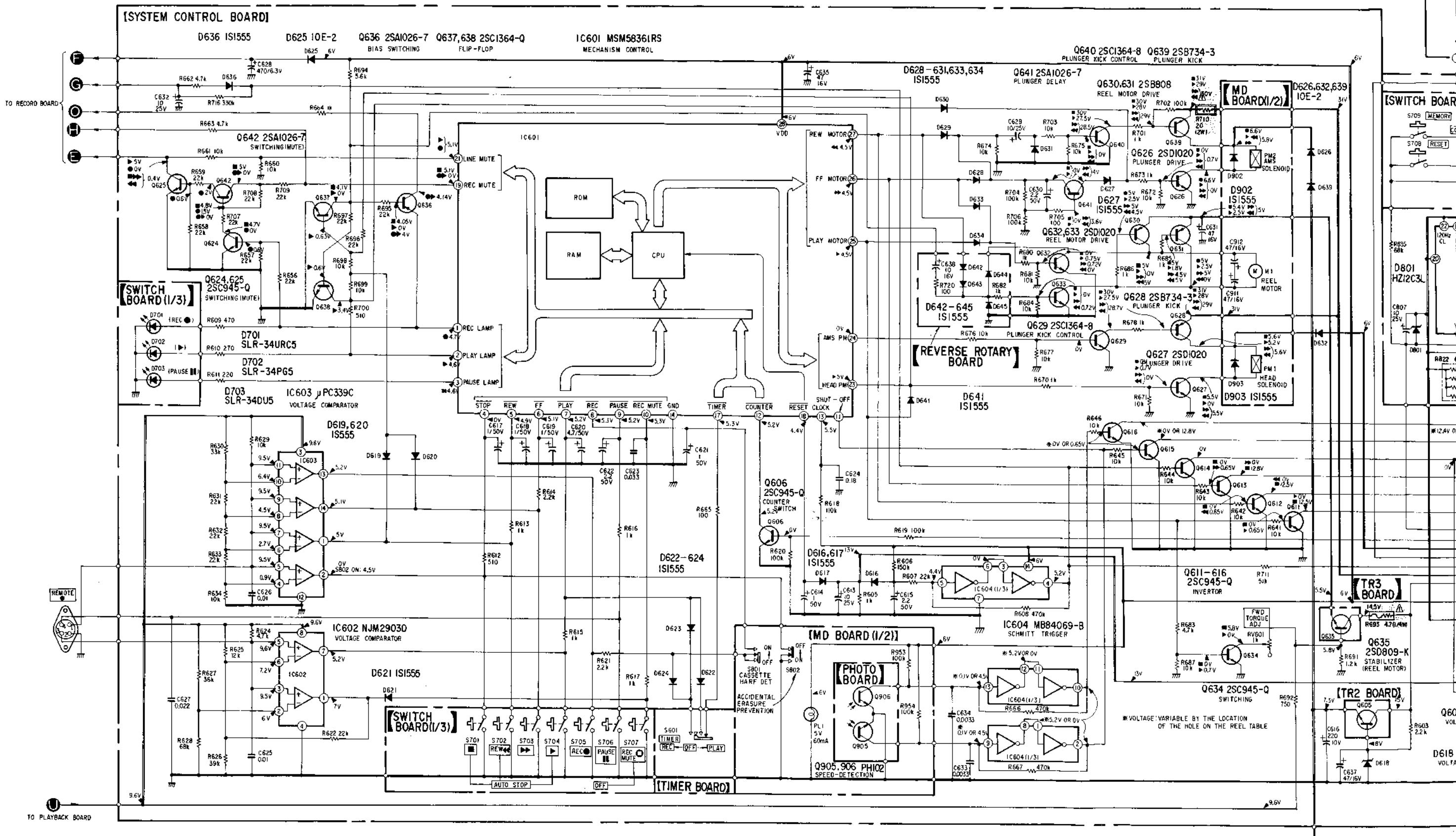
M





4-4. SCHEMATIC DIAGRAM

- System Control Section -



□

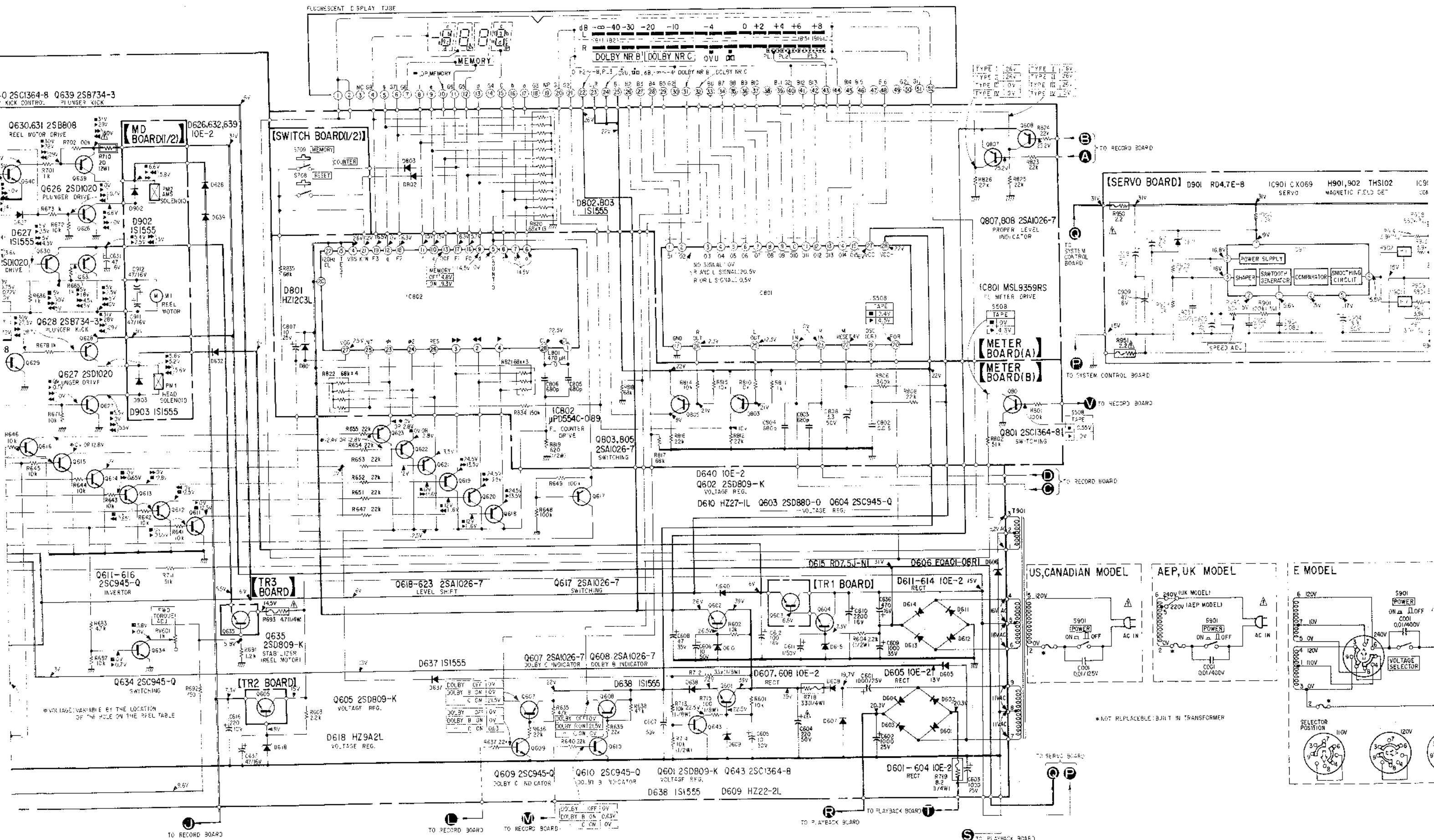
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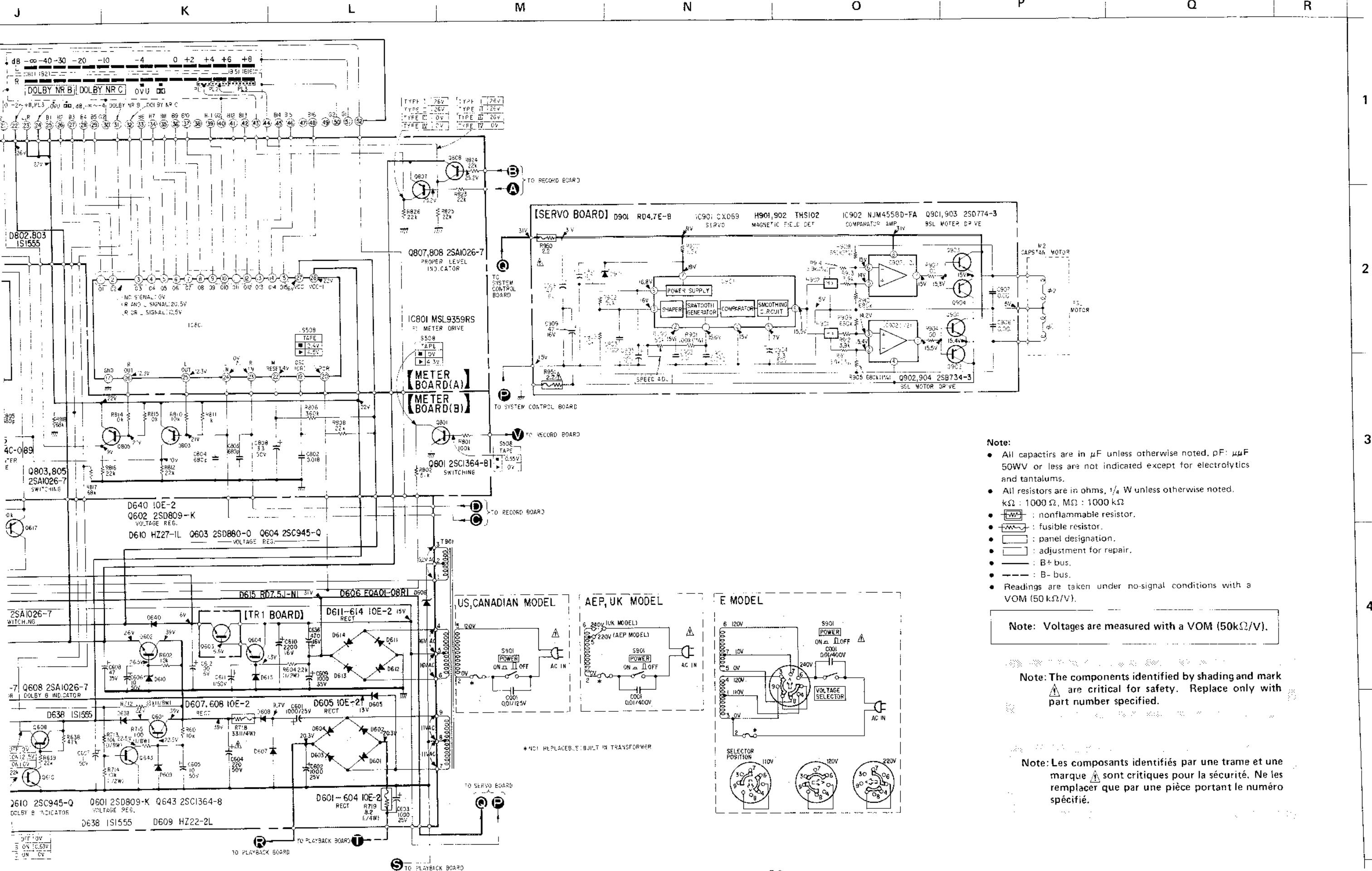
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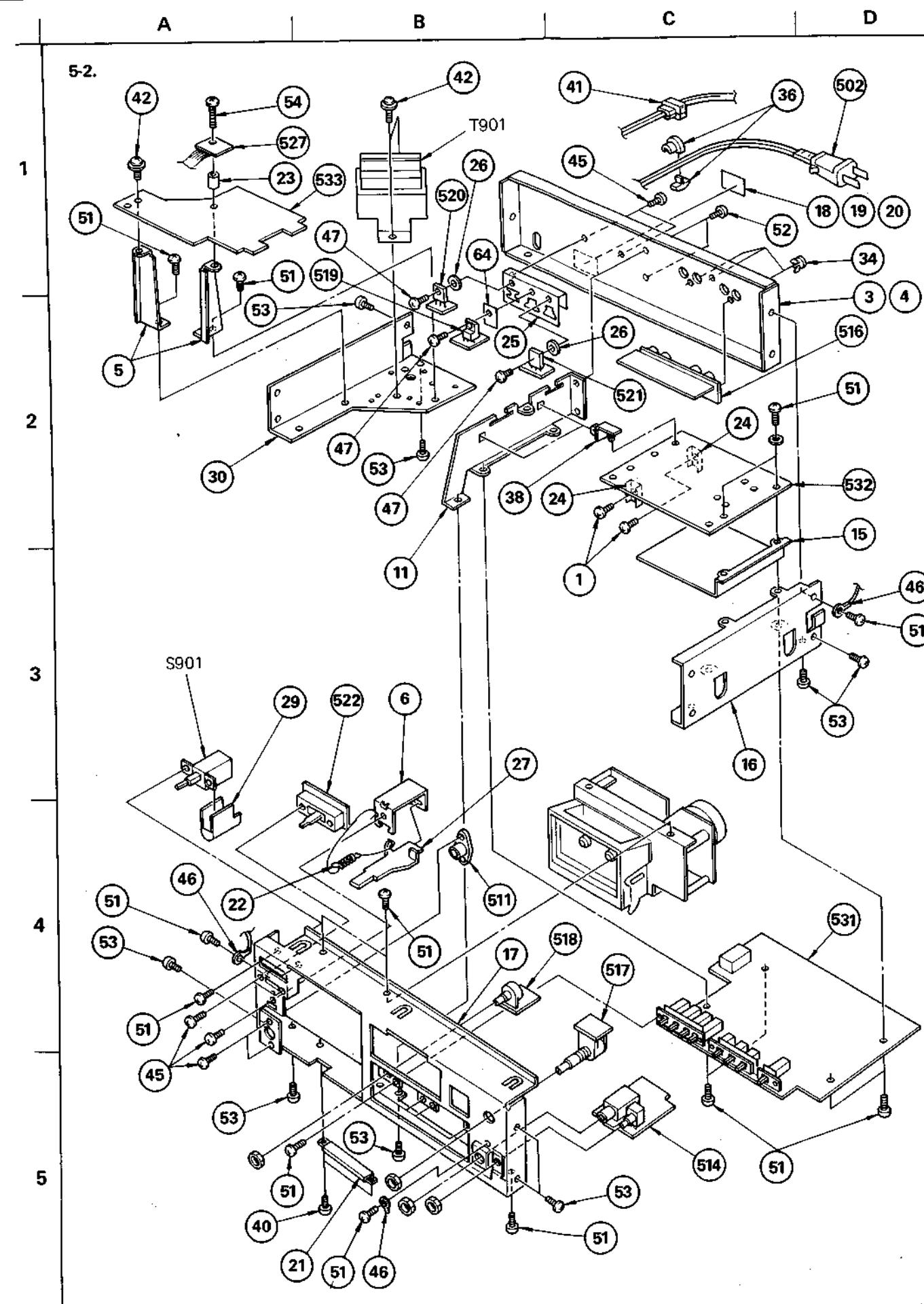
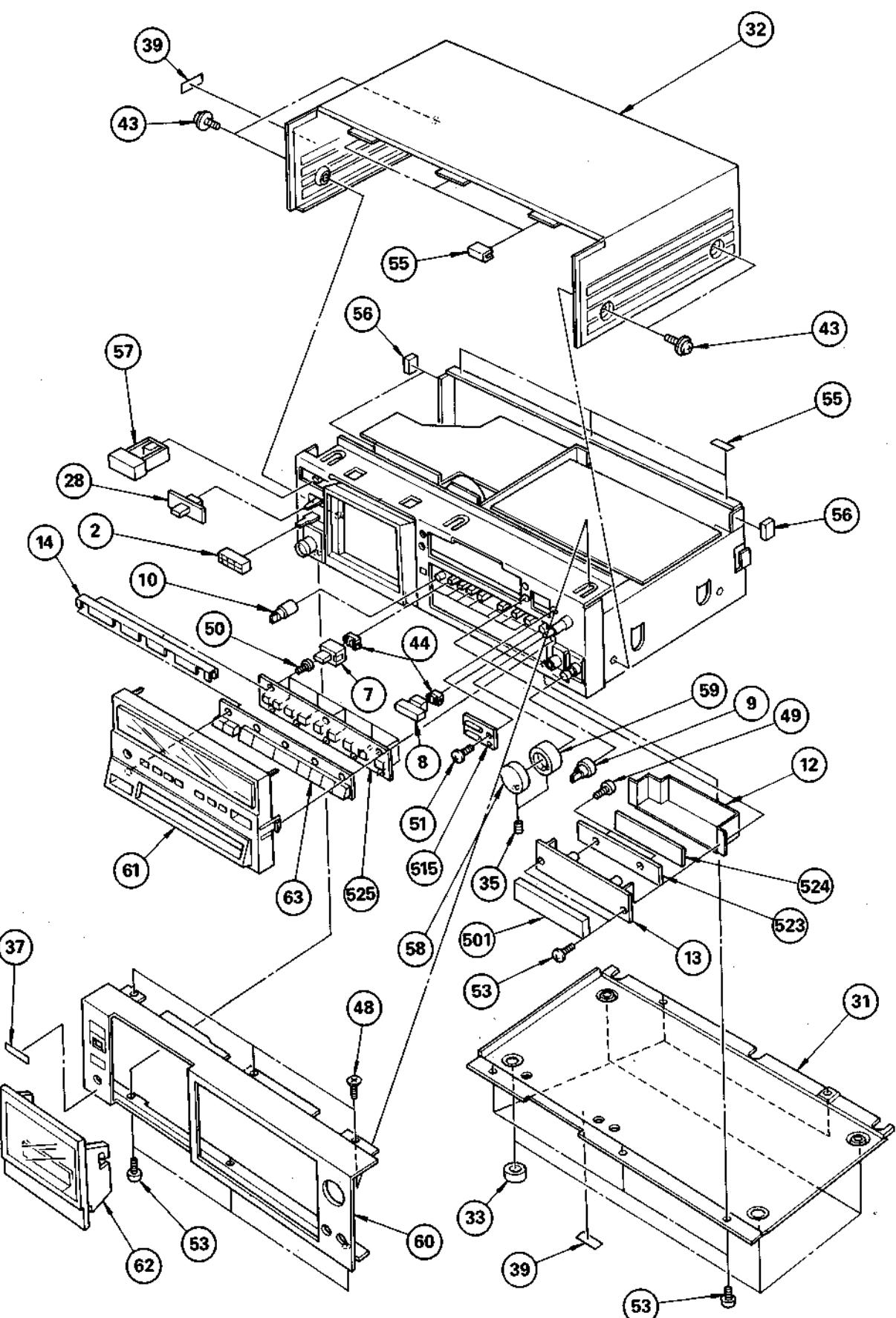
481

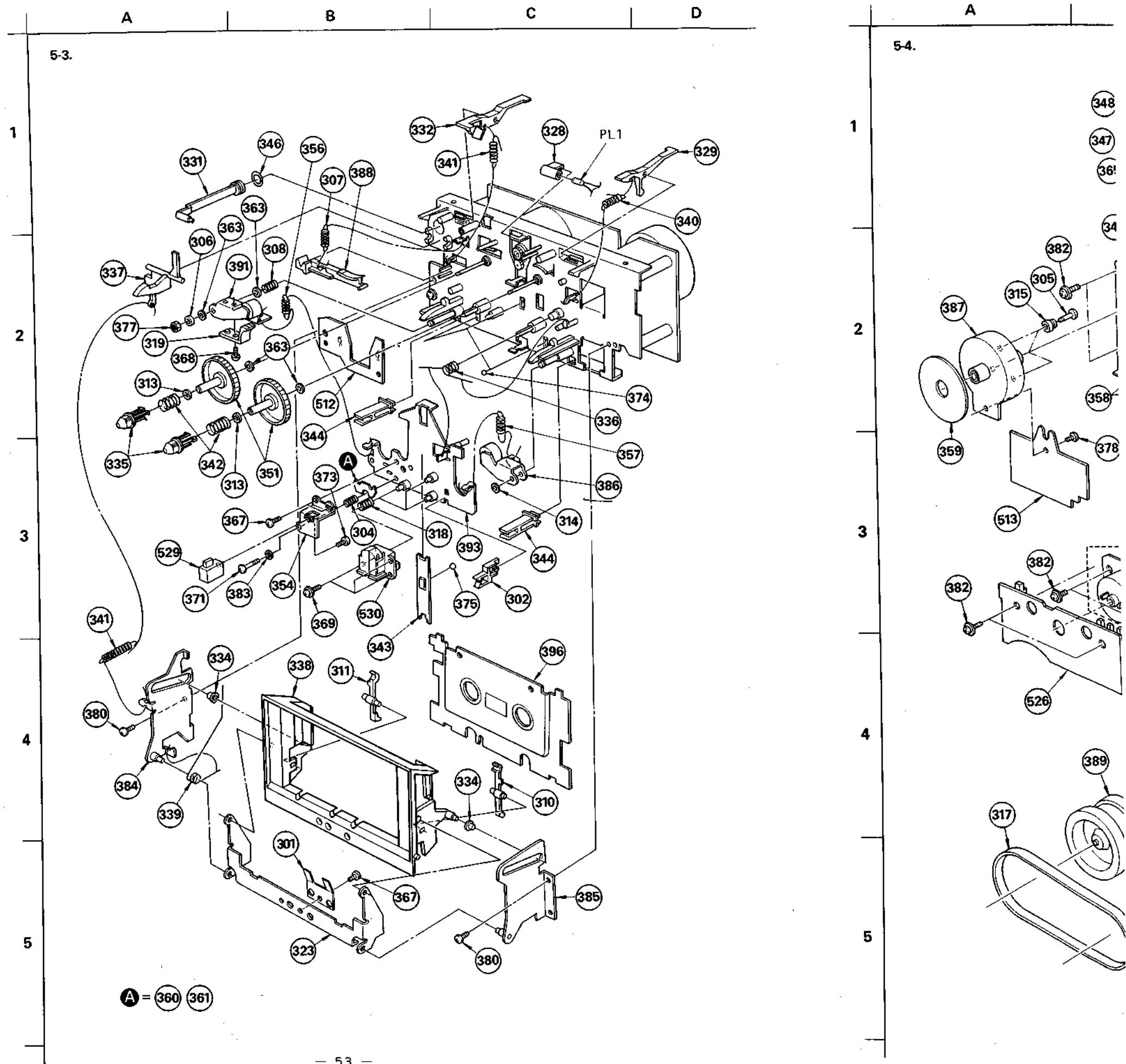
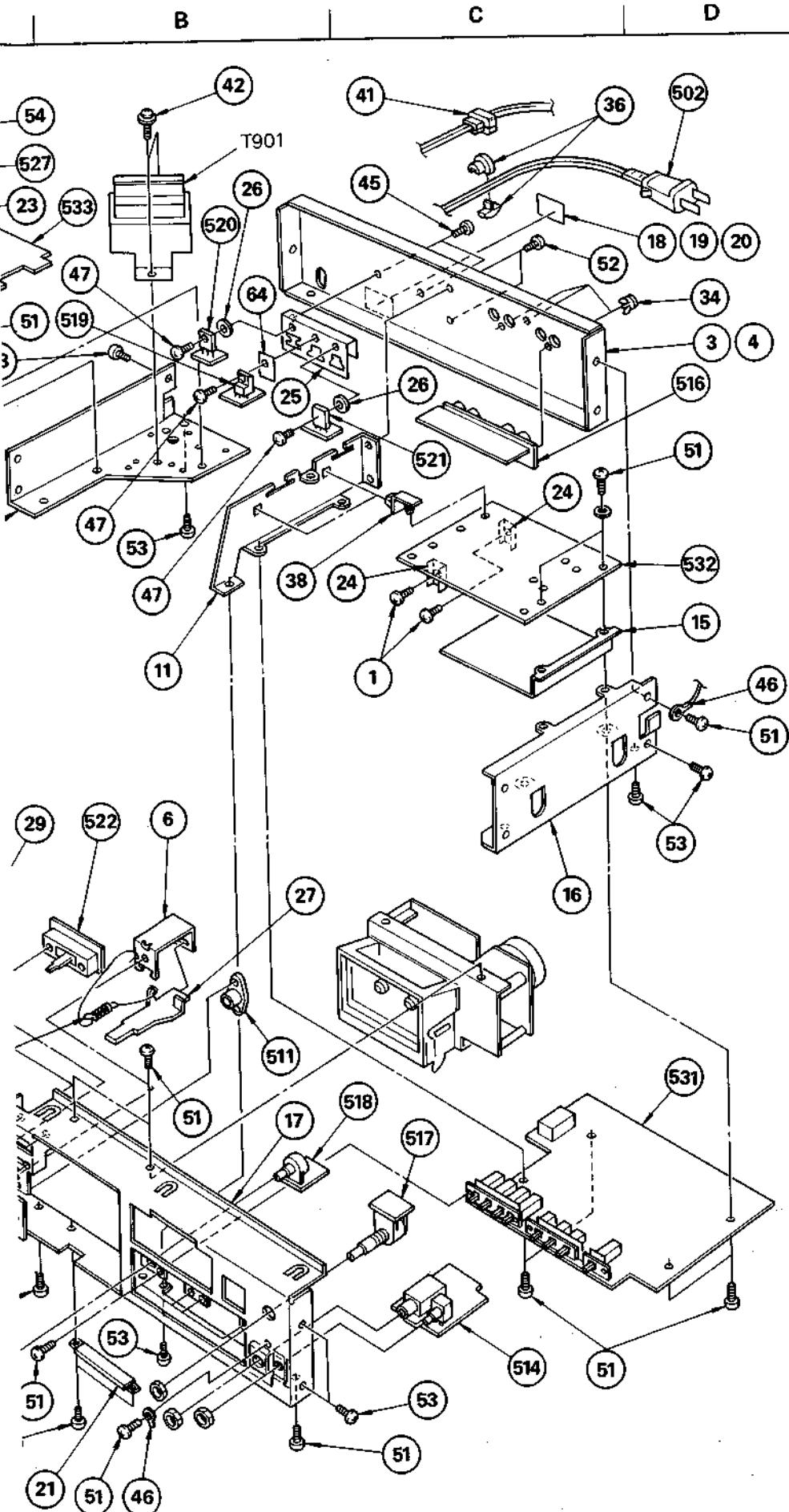
IV





SECTION 5
EXPLODED VIEWS AND PARTS LIST





A

B

C

D

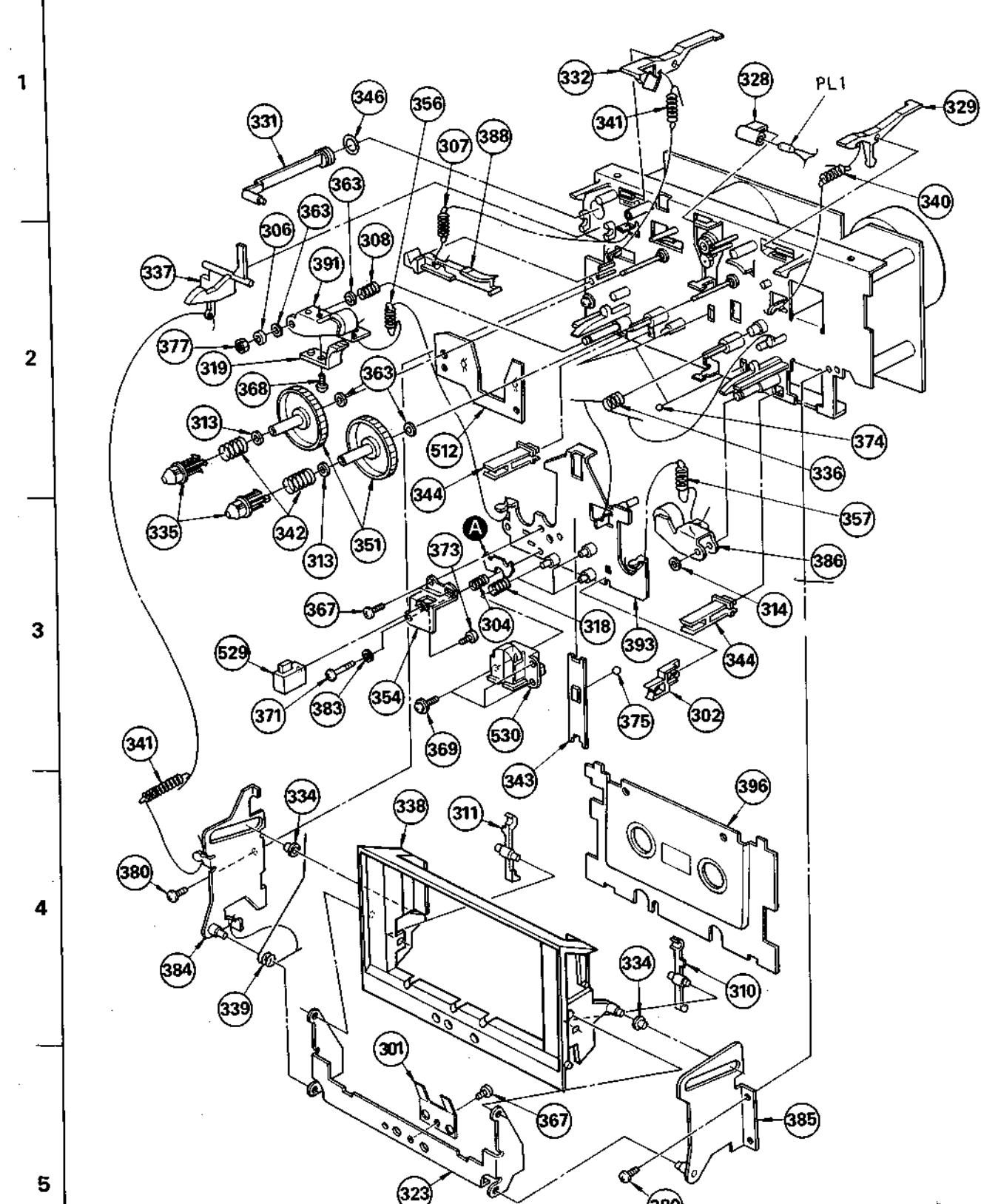
A

B

C

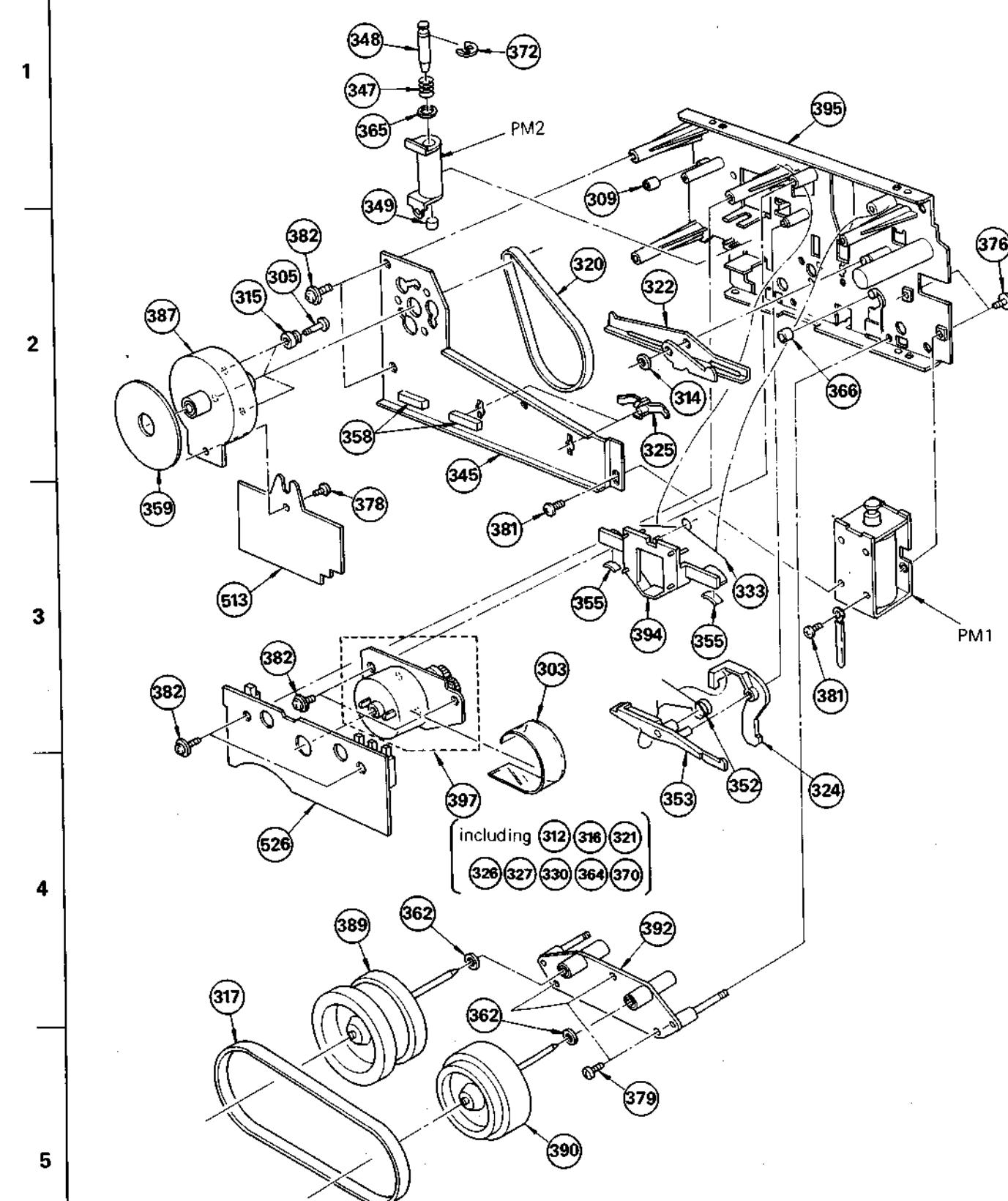
D

5-3.



A = 360 361

5-4.



GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-304-419-00	BUTTON, EJECT
3	3-304-907-11	(US,Canadian)...PLATE, JACK
4	3-304-908-01	(UK,AEP).....PLATE, JACK
5	3-304-910-00	BRACKET, PC BOARD
6	3-304-911-00	SLIDER, EJECT
7	3-304-926-00	KNOB (A), PUSH
8	3-304-927-00	KNOB (B), PUSH
9	3-304-929-00	KNOB, HEADPHONE
10	3-304-930-00	KNOB, BIAS
11	3-304-934-00	PLATE, RELAY
12	3-304-935-00	CASE, SHIELD
13	3-304-938-00	HOLDER, FL TUBE
14	3-304-939-00	BRACKET, CONTROL BUTTON
15	3-304-942-00	PLATE, SHIELD, PLAYBACK PCB
16	3-304-944-00	PLATE, SIDE, RIGHT
17	3-304-949-05	CHASSIS, AMPLIFIER
18	3-304-958-00	LABEL, MODEL NUMBER (USA,CND)
19	3-304-959-00	LABEL, MODEL NUMBER (AEP1)
20	3-304-960-00	LABEL, MODEL NUMBER (UK)
21	3-304-962-00	COVER, MD
22	3-534-238-XX	SPRING, TENSION
23	3-565-796-00	SPACER, PC BOARD
24	3-567-242-00	HEAT SINK
25	3-572-305-00	HEAT SINK
26	3-572-365-11	SHEET, INSULATING (A)
27	3-575-502-00	BRACKET, EJECT
28	3-575-515-00	KNOB, SLIDE SWITCH
29	3-575-524-00	COVER, POWER SWITCH
30	3-575-537-00	PLATE, SIDE, LEFT
31	3-575-538-12	PLATE, BOTTOM
32	3-575-539-00	CASE
33	3-576-731-00	FELT (H)
34	3-646-090-11	RIVET, NYLON
35	3-701-506-01	SET SCREW, DOUBLE POINT 3X4
36	3-701-682-00	(US,Canadian)...STOPPER, CORD
37	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)
38	3-701-832-00	HINGE, CIRCUIT BOARD
39	3-703-079-21	(US,UK)...LABEL, COURTION (BACK)
40	3-703-108-21	SCREW +BV 3X6, S TIGHT
41	3-703-244-00	(AEP,UK,E)...BUSHING, CORD
42	3-703-486-00	+PTTWH 3X5
43	4-820-330-21	SCREW, BW, PLUS MINUS
44	4-864-307-00	RING
45	7-621-775-20	SCREW +B 2.6X5

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 ($\Delta-\Delta\Delta-\Delta\Delta-\Delta\Delta-\Delta\Delta-X$ or $\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-\Delta\Delta-X$) may be different from those used in the set.

SEMICONDUCTORS

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

GENERAL SECTION

No.	Part No.	Description
46	7-623-508-01	LUG, 3
47	7-682-147-20	SCREW +P 3X6
48	7-682-247-04	SCREW +K 3X6
49	7-685-146-21	SCREW +P 3X8 TYPE2 SLIT
50	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S
51	7-685-871-01	SCREW +BVTT 3X6 (S)
52	7-685-871-09	SCREW +BVTT 3X6 (S)
53	7-685-872-01	SCREW +BVTT 3X8 (S)
54	7-685-877-01	SCREW +BVTT 3X20 (S)
55	9-911-837-XX	CUSHION, FILTER
56	9-911-841-XX	CUSHION
57	X-3304-405-0	KNOB ASSY, POWER
58	X-3304-902-0	KNOB (RIGHT) ASSY, REC
59	X-3304-903-0	KNOB (LEFT) ASSY, REC
60	X-3304-904-3	PANEL ASSY, FRONT
61	X-3304-905-0	ESCUTCHEON SUB ASSY
62	X-3304-906-0	WINDOW ASSY, CASSETTE
63	X-3304-908-0	BUTTON ASSY, CONTROL
64	3-703-037-00	INSULATOR, TO-220
65	3-304-908-11	(E)...PLATE, JACK
66	3-304-961-00	LABEL, MODEL NUMBER (E1,E2)
67	7-682-547-09	SCREW +B 3X6

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-551-734-11	CORD, CONNECTION (RK- 74A)
102	3-304-902-00	CUSHION (LEFT), UPPER
103	3-304-903-00	CUSHION (RIGHT), UPPER
104	3-304-904-00	CUSHION (LEFT), LOWER
105	3-304-905-00	CUSHION (RIGHT), LOWER
106	3-304-956-00	SHEET, PROTECTION
107	3-304-957-00	INDIVIDUAL CARTON
108	3-701-630-00	BAG, POLYETHYLENE
109	3-783-827-11	(UK,AEP,E).....MANUAL, INSTRUCTION
109	3-783-827-21	(US,Canadian)...MANUAL, INSTRUCTION
109	3-783-827-31	(Canadian).....MANUAL, INSTRUCTION
110	3-793-828-11	QUESTIONNAIRE
111	3-793-481-13	(Canadian,AEP,UK,E)...INSTRUCTION
112	4-873-610-00	SHEET, PROTECTION
113	8-890-434-11	(Canadian)...TAPE (EHF-46)
114	X-3701-105-0	ROD ASSY, CLEANING, HEAD

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 PF.

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

- MHH : mH, UH : μ H

MECHANISM SECTION

No.	Part No.	Description
301	3-304-639-00	SHIELD PLATE, HEAD
302	3-304-963-00	RETAINER, LEAD
303	3-306-209-00	PLATE (O), SHIELD, MOTOR
304	3-481-272-00	SPRING, COMPRESSION
305	3-489-077-21	SCREW, MOTOR STOPPER
306	3-491-191-00	COLLAR
307	3-537-205-00	SPRING, TENSION
308	3-537-213-00	SPRING, COMPRESSION
309	3-538-051-00	RUBBER, BRAKE
310	3-555-113-00	SPRING (RIGHT)
311	3-555-114-00	SPRING (LEFT)
312	3-558-708-01	WASHER, STOPPER
313	3-558-708-11	WASHER, STOPPER
314	3-558-708-21	WASHER, STOPPER
315	3-564-017-00	RUBBER, CUSHION
316	3-564-027-11	FELT, LIMITER
317	3-564-088-00	BELT (2), CAPSTAN
318	3-564-121-00	SPRING, COMPRESSION
319	3-564-138-00	GUIDE (S), TAPE
320	3-564-319-00	BELT, CAPSTAN
321	3-575-304-00	SHAFT, GEAR, FR
322	3-575-307-00	LEVER, FWD
323	3-575-314-00	LEVER, FULCRUM, HOLDER
324	3-575-318-00	LEVER, LOCK, TUNING
325	3-575-321-00	RETAINER, THRUST, CAPSTAN
326	3-575-324-00	GEAR, LIMITER
327	3-575-327-00	STOPPER
328	3-575-328-00	HOLDER, LAMP
329	3-575-331-00	LEVER, DETECTION, HALF
330	3-575-332-00	GEAR, FR
331	3-575-333-00	PISTON
332	3-575-334-00	LEVER, DETECTION, REC
333	3-575-345-00	SPRING
334	3-575-348-00	ROLLER, GUIDE, THREADING
335	3-575-350-00	CLAW, REEL TABLE
336	3-575-351-00	SPRING
337	3-575-354-00	LEVER, LOCK
338	3-575-355-00	HOLDER, CASSETTE
339	3-575-356-00	SPRING
340	3-575-358-00	SPRING, TENSION
341	3-575-364-00	SPRING, TENSION
342	3-575-365-00	SPRING, COMPRESSION
343	3-575-377-00	SPRING
344	3-575-378-00	GUIDE, LEAD
345	3-575-381-00	RETAINER (W), THRUST

MECHANISM SECTION

No.	Part No.	Description
346	3-575-392-00	RING, PISTON
347	3-575-414-00	SPRING, COMPRESSION
348	3-575-415-11	ARBOR, MOVABLE
349	3-575-416-11	ARBOR, FIXED
350	TABLE, REEL
351	3-575-447-00	TABLE, REEL
352	3-575-458-00	SPRING
353	3-575-460-00	LEVER, SELECT TUNE
354	3-575-464-00	BRACKET, HEAD, ERASE
355	3-575-469-00	SHOE, BRAKE
356	3-575-481-00	SPRING, TENSION
357	3-575-482-00	SPRING, TENSION
358	3-575-485-00	RUBBER, VIBRATION PROOF
359	3-575-486-00	SHEET, VIBRATION PROOF
360	3-576-835-01	SEAM, ADJUSTMENT, ERASE HEAD
361	3-576-835-11	SEAM, ADJUSTMENT, ERASE HEAD
362	3-701-438-21	WASHER
363	3-701-439-21	WASHER
364	3-701-441-01	WASHER
365	3-701-444-11	WASHER, 6
366	4-855-109-12	RUBBER, LIFTER CUSHION
367	7-621-772-00	SCREW +B 2X3
368	7-621-772-10	SCREW +B 2X4
369	3-701-467-01	SCREW 2X5
370	7-621-775-10	SCREW +B 2.6X4
371	7-621-775-50	SCREW +B 2.6X10
372	7-624-110-04	STOP RING 6.0, TYPE -E
373	7-627-552-38	SCREW, PRECISION +P 1.7X3
374	7-671-112-11	BALL, STEEL
375	7-671-113-11	BALL, STEEL
376	7-682-949-01	SCREW +PSW 3X10
377	7-684-023-04	N 3, TYPE 2
378	7-685-533-11	SCREW +BTP 2.6X6 TYPE2 N-S
379	7-685-791-01	SCREW +PTT 2.6X5 (S)
380	7-685-862-01	SCREW +BVTT 2.6X6 (S)
381	7-685-870-01	SCREW +BVTT 3X5 (S)
382	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
383	7-688-002-12	W 2.6, MIDDLE
384	X-3575-301-0	PLATE (A) ASSY, HOLDER FULCRUM
385	X-3575-302-0	PLATE (B) ASSY, FULCRUM
386	X-3575-304-0	PINCH LEVER (T) ASSY
387	X-3575-308-0	MOTOR COMPLETE ASSY, BSL
388	X-3575-310-0	LEVER ASSY, TENSION, BACK
389	X-3575-319-0	FLYWHEEL (RIGHT) ASSY
390	X-3575-320-0	FLYWHEEL (LEFT) ASSY

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 ($\Delta-\Delta\Delta-\Delta\Delta-\Delta\Delta$ -XX or $\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-X$) 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 PF.

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

SEMICONDUCTORS

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

MECHANISM SECTION

No.	Part No.	Description
391	X-3575-321-0	PINCH LEVER (S) ASSY
392	X-3575-322-0	BASE ASSY, CAPSTAN
393	X-3575-323-0	CHASSIS ASSY, HEAD
394	♦ ;X-3575-342-0	PLATL ASSY, BRAKE
395	♦ ;X-3575-344-0	CHASSIS ASSY, MECHANISM
396	Y-3575-347-0	PLATE ASSY, ORNAMENTAL
397	X-3575-349-0	MOTOR ASSY, REEL

ELECTRICAL PARTS

Ref.No.	Part No.	Description
509	♦ ;1-560-338-00	PIN, CONNECTOR 2P
510	♦ ;1-560-339-00	PIN, CONNECTOR 3P
511	1-561-293-00	SOCKET (4P)
512	♦ ;1-603-823-00	PC BOARD, PHOTOC
513	♦ ;1-603-825-00	PC BOARD, SERVO
514	♦ ;1-606-772-00	PC BOARD, H.P.
515	♦ ;1-606-773-00	PC BOARD, LAMP
516	♦ ;1-606-774-00	PC BOARD, PIN JACK
517	♦ ;1-606-775-00	PC BOARD, VOL
518	♦ ;1-606-776-00	PC BOARD, BIAS FINE
519	♦ ;1-606-778-00	PC BOARD, TR-1
520	♦ ;1-606-779-00	PC BOARD, TR-2
521	♦ ;1-606-780-00	PC BOARD, TR-3
522	♦ ;1-606-781-00	PC BOARD, TIMER
523	♦ ;1-606-783-00	PC BOARD, MFLTR (A)
524	♦ ;1-606-784-00	PC BOARD, MFLTR (B)
525	♦ ;1-606-785-00	PC BOARD, SW
526	♦ ;1-606-786-00	PC BOARD, MD
527	♦ ;1-607-454-00	PC BOARD, REVERSE ROTARY
529	8-825-504-30	HEAD, ERASE
530	8-825-728-21	HEAD, RSC/PB RPS202-3602A
531	A-2006-047-A	MOUNTED PCB, REC
532	A-2008-034-A	MOUNTED PCB, PB
533	A-2019-141-A	MOUNTED PCB, SYSTEM CONTROL
534	▲ .1-526-576-31	(E)...SELECTOR, POWER VOLTAGE
535	▲ .1-551-472-00	(E2)...CORD, POWER
536	▲ .1-555-734-00	(E1)...CORD, POWER
C001	▲ .1-130-230-00	(E).....CAP, FILM 0.01MF 300V
C001	▲ .1-161-749-00	(US,Canadian)..CAP, CERAMIC 10000PF 125V
C001	▲ .1-161-744-00	(AEP,UK).....CAP, CERAMIC 10000PF 400V
C103	1-130-305-00	FILM 0.022MF 5% 100V
C104	1-130-830-00	FLECT 4.7MF 20% 50V
C105	1-130-289-00	FILM 0.0047MF 5% 100V
C107	1-161-319-00	CERAMIC 470PF 10% 50V
C108	1-130-634-00	FILM 0.15MF 5% 50V
C109	1-130-628-00	FILM 0.047MF 5% 50V
C110	1-130-625-00	FILM 0.02MF 5% 50V
C113	1-130-892-00	FILM 0.015MF 3% 100V
C114	1-130-856-00	FILM 0.0068MF 3% 100V
C115	1-130-623-00	FILM 0.018MF 5% 50V
C119	1-130-634-00	FILM 0.15MF 5% 50V
C120	1-130-532-00	FILM 0.1MF 5% 50V
C121	1-130-632-00	FILM 0.1MF 5% 50V
C122	1-130-621-00	FILM 0.012MF 5% 50V
C124	1-130-851-00	FILM 0.082MF 3% 100V

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 (A-1111-1111-XX or 1-1111-1111-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : .., for example:
 UA... : μA..., UPA... : μA..., UPC... : μC,
 UPC... : μC...

CAPACITORS:

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

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, LH : μH

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Voltage
C126	1-130-893-00	FILM	0.027MF	3%	100V
C127	1-130-856-00	FILM	0.0063MF	3%	100V
C128	1-123-232-00	ELECT	4.7MF	20%	50V
C203	1-130-305-00	FILM	0.022MF	5%	100V
C204	1-123-830-00	ELECT	4.7MF	20%	50V
C205	1-130-289-00	FILM	0.0047MF	5%	100V
C207	1-161-319-00	CERAMIC	470PF	10%	50V
C208	1-130-634-00	FILM	0.15MF	5%	50V
C209	1-130-628-00	FILM	0.047MF	5%	50V
C210	1-130-625-00	FILM	0.027MF	5%	50V
C213	1-130-892-00	FILM	0.015MF	3%	100V
C214	1-130-856-00	FILM	0.0068MF	3%	100V
C215	1-130-623-00	FILM	0.018MF	5%	50V
C219	1-130-634-00	FILM	0.15MF	5%	50V
C220	1-130-632-00	FILM	0.1MF	5%	50V
C221	1-130-632-00	FILM	0.1MF	5%	50V
C222	1-130-621-00	FILM	0.012MF	5%	50V
C224	1-130-851-00	FILM	0.082MF	3%	100V
C226	1-130-893-00	FILM	0.027MF	3%	100V
C227	1-130-856-00	FILM	0.0063MF	3%	100V
C228	1-123-232-00	ELECT	4.7MF	20%	50V
C308	1-130-634-00	FILM	0.15MF	5%	50V
C309	1-130-632-00	FILM	0.1MF	5%	50V
C310	1-130-632-00	FILM	0.1MF	5%	50V
C311	1-130-621-00	FILM	0.012MF	5%	50V
C315	1-130-851-00	FILM	0.082MF	3%	100V
C317	1-130-856-00	FILM	0.0068MF	3%	100V
C318	1-130-893-00	FILM	0.027MF	3%	100V
C319	1-123-232-00	ELECT	4.7MF	20%	50V
C321	1-130-625-00	FILM	0.027MF	5%	50V
C323	1-123-234-00	ELECT	10MF	20%	50V
C324	1-130-621-00	FILM	0.012MF	5%	50V
C325	1-130-626-00	FILM	0.033MF	5%	50V
C326	1-130-625-00	FILM	0.027MF	5%	50V
C327	1-130-626-00	FILM	0.033MF	5%	50V
C329	1-130-623-00	FILM	0.018MF	5%	50V
C334	1-130-634-00	FILM	0.15MF	5%	50V
C335	1-130-628-00	FILM	0.047MF	5%	50V
C336	1-130-625-00	FILM	0.027MF	5%	50V
C339	1-130-856-00	FILM	0.0068MF	3%	100V
C340	1-130-623-00	FILM	0.018MF	5%	50V
C358	1-130-892-00	FILM	0.015MF	3%	100V
C408	1-130-634-00	FILM	0.15MF	5%	50V
C409	1-130-632-00	FILM	0.1MF	5%	50V
C410	1-130-632-00	FILM	0.1MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Voltage
C411	1-130-621-00	FILM	0.012MF	5%	50V
C415	1-130-851-00	FILM	0.082MF	3%	100V
C417	1-130-856-00	FILM	0.0068MF	3%	100V
C418	1-130-893-00	FILM	0.027MF	3%	100V
C419	1-123-232-00	ELECT	4.7MF	20%	50V
C421	1-130-625-00	FILM	0.027MF	5%	50V
C423	1-123-234-00	ELECT	10MF	20%	50V
C424	1-130-621-00	FILM	0.012MF	5%	50V
C425	1-130-626-00	FILM	0.033MF	5%	50V
C426	1-130-625-00	FILM	0.027MF	5%	50V
C427	1-130-626-00	FILM	0.033MF	5%	50V
C429	1-130-623-00	FILM	0.018MF	5%	50V
C434	1-130-634-00	FILM	0.15MF	5%	50V
C435	1-130-623-00	FILM	0.047MF	5%	50V
C436	1-130-625-00	FILM	0.027MF	5%	50V
C439	1-130-856-00	FILM	0.0068MF	3%	100V
C440	1-130-623-00	FILM	0.018MF	5%	50V
C458	1-130-692-00	FILM	0.015MF	3%	100V
C507 A.1-123-335-00	ELECT	330MF	20%	25V	
C508 A.1-123-311-00	ELECT	1000MF	20%	10V	
C509 A.1-123-335-00	ELECT	330MF	20%	25V	
C511 A.1-123-311-00	ELECT	1000MF	20%	10V	
C513 1-141-225-00	CAP, TUNING, TRIMMER				
C601 A.1-123-337-00	ELECT	1000MF	20%	25V	
C602 A.1-123-697-00	ELECT	1000MF	20%	25V	
C603 A.1-123-697-00	ELECT	1000MF	20%	25V	
C604 A.1-123-361-00	ELECT	220MF	20%	25V	
C609 A.1-123-349-00	ELECT	1000MF	20%	35V	
C610 A.1-123-325-00	ELECT	2200MF	20%	16V	
C636 A.1-123-323-00	ELECT	470MF	20%	16V	
C901 1-130-134-00	FILM	0.082MF	5%	100V	
CNJ301 1-507-531-00	PLATE, PIN-JACK				
CNJ302 1-507-531-00	PLATE, PIN-JACK				
CNJ401 1-507-531-00	PLATE, PIN-JACK				
CNJ402 1-507-531-00	PLATE, PIN-JACK				
CNJ501 1-507-659-00	JACK				
CP501 1-464-132-00	UNIT, BIAS OSCILLATOR				
D501 8-719-910-64	DIODE H26B1L				
D502 8-719-910-64	DIODE H26B1L				
D503 8-719-815-55	DIODE LS1555				
D504 8-719-815-55	DIODE LS1555				
D505 8-719-815-55	DIODE LS1555				
D506 8-719-815-55	DIODE LS1555				
D507 8-719-815-55	DIODE LS1555				
D508 8-719-815-55	DIODE LS1555				
D509 8-719-815-55	DIODE LS1555				

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 (1-123-444-XX or 1-12311-XX-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ A, for example:
 UA... : μ A..., UPA... : LPA..., UPC... : MPC,
 UPD... : SPD...

CAPACITORS:

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

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

- MHH : mH, UF : μ H

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS			ELECTRICAL PARTS			ELECTRICAL PARTS			ELECTRICAL PARTS		
Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D601▲.8-719-200-02	DIODE 10E-2		D702	8-719-902-26	DIODE SLR-34PG5	L406	1-408-259-00	MICRO INDUCTOR 15MMH	Q314	8-729-663-48	TRANSISTOR 2SC1364-8
D602▲.8-719-200-02	DIODE 10E-2		D703	8-719-902-25	DIODE SLR-34DUS	L501	1-407-177-XX	MICRO INDUCTOR 470UH	Q401	8-729-334-58	TRANSISTOR 2SC1345
D603▲.8-719-200-02	DIODE 10E-2		D801	8-719-910-29	DIODE HZ12C3L	L502	1-407-177-XX	MICRO INDUCTOR 470UH	Q402	8-729-663-48	TRANSISTOR 2SC1364-8
D604▲.8-719-200-02	DIODE 10E-2		D802	8-719-815-55	DIODE 1S1555	L801	1-407-177-XX	MICRO INDUCTOR 470UH	Q403	8-729-663-48	TRANSISTOR 2SC1364-8
D605▲.8-719-200-02	DIODE 10E-2		D803	8-719-815-55	DIODL 1S1555	LP1301	1-231-388-00	FILTER, LOWPASS	Q404	8-729-663-48	TRANSISTOR 2SC1364-8
D606▲.8-719-999-81	DIODE EQA01-08R1		D901	8-719-100-27	DIODL R04.7E-82	LPF401	1-231-388-00	FILTER, LOWPASS	Q405	8-729-663-48	TRANSISTOR 2SC1364-8
D607	8-719-200-02	DIODE 10E-2	D902	8-719-815-55	DIODE 1S1555	M1	1-541-163-00	MOTOR	Q406	8-729-663-48	TRANSISTOR 2SC1364-8
D608	8-719-200-02	DIODE 10E-2	D903	8-719-815-55	DIODE 1S1555	PL1	1-518-313-00	LAMP, PILOT	Q407	8-729-663-48	TRANSISTOR 2SC1364-8
D609	8-719-902-23	DIODE HZ22-3L	H901	8-719-814-11	DIODE THS102	PL501	1-518-489-21	LAMP, PILOT	Q408	8-729-663-48	TRANSISTOR 2SC1364-8
D610	8-719-922-71	DIODE HZ27-1L	H902	8-719-814-11	DIODC THS102	PL502	1-518-489-21	LAMP, PILOT	Q409	8-729-663-48	TRANSISTOR 2SC1364-8
D611▲.8-719-200-02	DIODE 10E-2		IC101	8-759-300-74	IC CX-174A	PM1	1-454-288-00	SOLENOID, PLUNGER	Q410	8-729-663-48	TRANSISTOR 2SC1364-8
D612▲.8-719-200-02	DIODE 10E-2		IC102	8-759-300-74	IC CX-174A	PM2	1-454-291-00	SOLENOID, PLUNGER	Q411	8-729-663-48	TRANSISTOR 2SC1364-8
D613▲.8-719-200-02	DIODE 10E-2		IC201	8-759-300-74	IC CX-174A	Q101	8-729-663-47	TRANSISTOR 2SC1364	Q412	8-729-100-13	TRANSISTOR 2SC2001
D614▲.8-719-200-02	DIODE 10E-2		IC202	8-759-300-74	IC CX-174A	Q102	8-729-663-48	TRANSISTOR 2SC1364-8	Q413	8-729-663-47	TRANSISTOR 2SC1364
D615	8-719-103-39	DIODE RD7.6J-M1	IC301	8-759-300-74	IC CX-174A	Q103	8-729-663-48	TRANSISTOR 2SC1364-8	Q414	8-729-663-48	TRANSISTOR 2SC1364-8
D616	8-719-815-55	DIODE 1S1555	IC302	8-759-300-74	IC CX-174A	Q104	8-729-663-48	TRANSISTOR 2SC1364-8	Q501	8-729-203-02	TRANSISTOR 2SK30A-0
D617	8-719-815-55	DIODE 1S1555	IC401	8-759-300-74	IC CX-174A	Q105	8-729-663-48	TRANSISTOR 2SC1364-8	Q502	8-729-315-22	TRANSISTOR 2SD1152
D618	8-719-910-92	DIODE HZ9A2L	IC402	8-759-300-74	IC CX-174A	Q106	8-729-663-48	TRANSISTOR 2SC1364-8	Q503	8-729-315-22	TRANSISTOR 2SD1152
D619	8-719-815-55	DIODE 1S1555	IC501	8-759-700-04	IC NJM2043D-D	Q107	8-729-663-48	TRANSISTOR 2SC1364-8	Q504	8-729-180-93	TRANSISTOR 2SD809
D620	8-719-815-55	DIODE 1S1555	IC502	8-759-961-38	IC BA6138	Q108	8-729-663-48	TRANSISTOR 2SC1364-8	Q505	8-729-384-48	TRANSISTOR 2SA844
D621	8-719-815-55	DIODE 1S1555	IC503	8-759-145-57	IC UPC455/C	Q109	8-729-663-48	TRANSISTOR 2SC1364-8	Q506	8-729-203-02	TRANSISTOR 2SK30A-0
D622	8-719-815-55	DIODE 1S1555	IC601	8-759-900-71	IC MSM5836IRS	Q110	8-729-663-48	TRANSISTOR 2SC1364-8	Q507	8-729-384-48	TRANSISTOR 2SA844
D623	8-719-815-55	DIODE 1S1555	IC602	8-759-729-03	IC NJM2903B	Q201	8-729-663-47	TRANSISTOR 2SC1364	Q508	8-729-173-13	TRANSISTOR 2SD731
D624	8-719-815-55	DIODE 1S1555	IC603	8-759-133-90	IC UPC339C	Q202	8-729-663-48	TRANSISTOR 2SC1364-8	Q510	8-729-663-47	TRANSISTOR 2SC1364
D625	8-719-200-02	DIODE 10E-2	IC604	8-759-984-69	IC MB84069C	Q203	8-729-663-48	TRANSISTOR 2SC1364-8	Q511	8-729-663-47	TRANSISTOR 2SC1364
D626	8-719-200-02	DIODE 10E-2	IC801	8-759-904-72	IC MSL9359RS	Q204	8-729-663-48	TRANSISTOR 2SC1364-8	Q512	8-729-612-77	TRANSISTOR 2SA1027R
D627	8-719-815-55	DIODE 1S1555	IC802	8-759-100-12	IC UPD554C089	Q205	8-729-663-48	TRANSISTOR 2SC1364-8	Q513	8-729-612-77	TRANSISTOR 2SA1027R
D628	8-719-815-55	DIODE 1S1555	IC901	8-759-600-59	IC CX-059A	Q206	8-729-663-48	TRANSISTOR 2SC1364-8	Q514	8-729-663-48	TRANSISTOR 2SC1364-8
D629	8-719-815-55	DIODE 1S1555	IC902	8-759-700-58	IC NJM4558D-FA	Q207	8-729-663-48	TRANSISTOR 2SC1364-8	Q515	8-729-663-48	TRANSISTOR 2SC1364-8
D630	8-719-815-55	DIODE 1S1555	L101	1-407-240-00	MICRO INDUCTOR 22MMH	Q208	8-729-663-48	TRANSISTOR 2SC1364-8	Q601	8-729-180-93	TRANSISTOR 2SD809
D631	8-719-815-55	DIODE 1S1555	L102	1-408-259-00	MICRO INDUCTOR 15MMH	Q209	8-729-663-48	TRANSISTOR 2SC1364-8	Q602	8-729-180-93	TRANSISTOR 2SD809
D632	8-719-200-02	DIODE 10F-2	L201	1-407-240-00	MICRO INDUCTOR 22MMH	Q210	8-729-663-48	TRANSISTOR 2SC1364-8	Q603	8-729-288-02	TRANSISTOR 2SD880
D633	8-719-815-55	DIODE 1S1555	L202	1-408-259-00	MICRO INDUCTOR 15MMH	Q301	8-729-334-58	TRANSISTOR 2SC1345	Q604	8-729-663-47	TRANSISTOR 2SC1364
D634	8-719-815-55	DIODE 1S1555	L301	1-408-259-00	MICRO INDUCTOR 15MMH	Q302	8-729-663-48	TRANSISTOR 2SC1364-8	Q605	8-729-180-93	TRANSISTOR 2SD809
D636	8-719-815-55	DIODE 1S1555	L302	1-408-253-00	MICRO INDUCTOR 4.7MMH	Q303	8-729-663-48	TRANSISTOR 2SC1364-8	Q606	8-729-663-47	TRANSISTOR 2SC1364
D637	8-719-815-55	DIODE 1S1555	L303	1-408-250-00	MICRO INDUCTOR 2.7MMH	Q304	8-729-663-48	TRANSISTOR 2SC1364-8	Q607	8-729-612-77	TRANSISTOR 2SA1027R
D638	8-719-815-55	DIODE 1S1555	L304	1-408-249-00	MICRO INDUCTOR 2.2MMH	Q305	8-729-663-48	TRANSISTOR 2SC1364-8	Q608	8-729-612-77	TRANSISTOR 2SA1027R
D639	8-719-200-02	DIODE 10E-2	L305	1-408-249-00	MICRO INDUCTOR 2.2MMH	Q306	8-729-663-48	TRANSISTOR 2SC1364-8	Q609	8-729-663-47	TRANSISTOR 2SC1364
D640	8-719-200-02	DIODE 10E-2	L306	1-408-259-00	MICRO INDUCTOR 15MMH	Q307	8-729-663-48	TRANSISTOR 2SC1364-8	Q610	8-729-663-47	TRANSISTOR 2SC1364
D641	8-719-815-55	DIODE 1S1555	L401	1-408-259-00	MICRO INDUCTOR 15MMH	Q308	8-729-663-48	TRANSISTOR 2SC1364-8	Q611	8-729-663-47	TRANSISTOR 2SC1364
D642	8-719-815-55	DIODE 1S1555	L402	1-408-253-00	MICRO INDUCTOR 4.7MMH	Q309	8-729-663-48	TRANSISTOR 2SC1364-8	Q612	8-729-663-47	TRANSISTOR 2SC1364
D643	8-719-815-55	DIODE 1S1555	L403	1-408-250-00	MICRO INDUCTOR 2.7MMH	Q310	8-729-663-48	TRANSISTOR 2SC1364-8	Q613	8-729-663-47	TRANSISTOR 2SC1364
D644	8-719-815-55	DIODE 1S1555	L404	1-408-249-00	MICRO INDUCTOR 2.2MMH	Q311	8-729-663-48	TRANSISTOR 2SC1364-8	Q614	8-729-663-47	TRANSISTOR 2SC1364
D645	8-719-815-55	DIODE 1S1555</									

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q617	8-729-612-77	TRANSISTOR 2SA1027R
Q618	8-729-612-77	TRANSISTOR 2SA1027R
Q619	8-729-612-77	TRANSISTOR 2SA1027R

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R131	1-214-753-00	METAL 10K 1% 1/4W
R132	1-214-741-00	METAL 3.3K 1% 1/4W
R142	1-214-964-00	METAL 1M 1% 1/4W

Ref.No.	Part No.	Description
R145	1-214-758-00	METAL 16K 1% 1/4W
R216	1-214-966-00	METAL 1.2M 1% 1/4W
R219	1-214-758-00	METAL 16K 1% 1/4W

Ref.No.	Part No.	Description
R222	1-214-766-00	METAL 36K 1% 1/4W
R226	1-214-713-00	METAL 220 1% 1/4W
R228	1-214-746-00	METAL 5.1K 1% 1/4W

Ref.No.	Part No.	Description
R230	1-214-741-00	METAL 3.3K 1% 1/4W
R231	1-214-753-00	METAL 10K 1% 1/4W
R232	1-214-741-00	METAL 3.3K 1% 1/4W

Ref.No.	Part No.	Description
R242	1-214-964-00	METAL 1M 1% 1/4W
R245	1-214-758-00	METAL 16K 1% 1/4W
R314	1-214-964-00	METAL 1M 1% 1/4W

Ref.No.	Part No.	Description
R320	1-214-758-00	METAL 16K 1% 1/4W
R337	1-214-966-00	METAL 1.2M 1% 1/4W
R341	1-214-758-00	METAL 16K 1% 1/4W

Ref.No.	Part No.	Description
R349	1-214-746-00	METAL 5.1K 1% 1/4W
R351	1-214-713-00	METAL 220 1% 1/4W
R356	1-214-741-00	METAL 3.3K 1% 1/4W

Ref.No.	Part No.	Description
R360	1-214-753-00	METAL 10K 1% 1/4W
R361	1-214-741-00	METAL 3.3K 1% 1/4W
R366	1-214-739-00	METAL 2.7K 1% 1/4W

Ref.No.	Part No.	Description
R414	1-214-964-00	METAL 1M 1% 1/4W
R420	1-214-758-00	METAL 16K 1% 1/4W
R437	1-214-966-00	METAL 1.2M 1% 1/4W

Ref.No.	Part No.	Description
R441	1-214-758-00	METAL 16K 1% 1/4W
R449	1-214-746-00	METAL 5.1K 1% 1/4W
R451	1-214-713-00	METAL 220 1% 1/4W

Ref.No.	Part No.	Description
R456	1-214-741-00	METAL 3.3K 1% 1/4W
R460	1-214-753-00	METAL 10K 1% 1/4W
R461	1-214-741-00	METAL 3.3K 1% 1/4W

Ref.No.	Part No.	Description
R466	1-214-739-00	METAL 2.7K 1% 1/4W
R693	A.1-212-849-00	FUSIBLE 4.7 5% 1/4W F
R710	A.1-206-470-00	METAL OXIDE 20 5% 2W F

Ref.No.	Part No.	Description
R718	A.1-212-855-00	FUSIBLE 8.2 5% 1/4W F
R719	A.1-217-393-00	FUSIBLE 33 5% 1/4W F
R911	1-214-743-00	METAL 3.9K 1% 1/4W

Ref.No.	Part No.	Description
R914	1-214-743-00	METAL 3.9K 1% 1/4W
R950	A.1-217-379-00	FUSIBLE 2.2 5% 1/4W F
R951	A.1-217-379-00	FUSIBLE 2.2 5% 1/4W F

Ref.No.	Part No.	Description
RV101	1-224-645-XX	RES, ADJ, CARBON 10K
RV201	1-224-645-XX	RES, ADJ, CARBON 10K
RV301	1-224-646-XX	RES, ADJ, CARBON 22K

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 (A-111-111-XX or A-111-111-X) may be different from those used in the set.

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.

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.

COILS

- MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV302	1-226-236-00	RES, ADJ, CARBON 10K
RV401	1-224-646-XX	RES, ADJ, CARBON 22K

Ref.No.	Part No.	Description
RV501	1-226-740-00	RES, VAR, CARBON 20K/20K
RV502	1-226-560-00	RES, VAR, CARBON 5K

Ref.No.	Part No.	Description
RV503	1-226-980-00	RES, VAR, CARBON 20K/20K
RV601	1-226-233-00	RES, ADJ, CARBON 1K

Ref.No.	Part No.	Description
S501	1-554-007-00	SWITCH, PUSH
S502	1-554-007-00	SWITCH, PUSH</td

ELECTROLYTIC CAPACITORS

CAP. (μ F)	RATING					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	I-121-726-00
1.0					→	I-121-391-00
2.2					→	I-121-450-00
3.3	→	→	→	I-121-392-00	→	I-121-393-00
4.7	→	→	→	I-121-395-00	→	I-121-396-00
10	→	→	I-121-651-00	I-121-398-00	→	I-121-738-00
22	→	→	I-121-479-00	I-121-480-00	I-121-662-00	I-121-152-00
33	→	→	I-121-403-00	I-121-404-00	I-121-652-00	I-121-405-00
47	→	I-121-352-00	I-121-409-00	I-121-410-00	I-121-653-00	I-121-411-00
100	→	I-121-414-00	I-121-415-00	I-121-416-00	I-121-357-00	I-121-417-00
220	I-121-419-00	I-121-420-00	I-121-421-00	I-121-422-00	I-121-261-00	I-121-423-00
330	I-121-251-00	I-121-805-00	I-121-521-00	I-121-654-00	I-121-655-00	I-121-656-00
470	I-121-424-00	I-121-425-00	I-121-426-00	I-121-733-00	I-121-361-00	I-121-810-00
1000	—	I-121-736-00	I-121-245-00	I-121-657-00	I-121-388-00	I-123-061-00
2200	I-121-658-00	I-121-659-00	I-121-660-00	I-123-067-00	I-121-984-00	—
3300	I-121-661-00	I-123-075-00	I-123-071-00	—	—	—

CAP. (μ F)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47				
1.0	I-123-249-00	I-123-252-00	I-123-003-00	I-121-168-00
2.2	I-123-250-00	I-123-026-00	—	I-123-028-00
3.3	I-121-995-00	—	I-123-004-00	I-123-006-00
4.7	I-123-255-00	I-121-246-00	I-121-759-00	I-123-007-00
10	I-121-126-00	I-121-999-00	I-123-254-00	I-123-008-00
22	I-121-996-00	I-123-253-00	I-123-005-00	I-123-022-00
33	I-121-997-00	I-121-757-00	—	—
47	I-123-251-00	I-121-919-00	—	—
100	I-123-084-00	—	—	—

CERAMIC CAPACITORS

CAP. (pF)	RATING					
	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.5	I-101-837-00	22	I-102-959-00	150	I-101-361-00	0.001
0.75	I-101-586-00	24	I-102-960-00	160	I-101-367-00	0.0012
1.0	I-102-934-00	27	I-102-961-00	180	I-102-976-00	0.0015
1.5	I-101-576-00	30	I-102-962-00	200	I-102-977-00	0.0018
2.0	I-102-935-00	33	I-102-963-00	220	I-102-978-00	0.0022
3	I-102-936-00	36	I-102-964-00	240	I-102-979-00	0.0027
4	I-102-937-00	39	I-102-965-00	270	I-102-980-00	0.0033
5	I-102-942-00	43	I-102-966-00	300	I-102-981-00	0.0039
6	I-102-943-00	47	I-101-880-00	330	I-102-820-00	0.0047
7	I-102-944-00	51	I-101-882-00	360	I-102-821-00	0.0056
8	I-102-945-00	56	I-101-884-00	390	I-102-822-00	0.0068
9	I-102-946-00	62	I-101-886-00	430	I-102-823-00	0.0082
10	I-102-947-00	68	I-101-888-00	470	I-102-824-00	0.01
11	I-102-948-00	75	I-101-890-00	510	I-101-059-00	0.022
12	I-102-949-00	82	I-102-971-00	560	I-102-115-00	0.047
13	I-102-950-00	91	I-102-972-00	680	I-102-116-00	
15	I-102-951-00	100	I-102-973-00	820	I-102-117-00	
16	I-102-952-00	110	I-102-815-00			
18	I-102-953-00	120	I-102-816-00			
20	I-102-958-00	130	I-101-081-00			

0.001 μ F = 1,000 pFCERAMIC (SEMICONDUCTOR) CAPACITORS

CAP. (μ F)	RATING					
	25 VOLT.	50 VOLT.	CAP. (μ F)	25 VOLT.	50 VOLT.	CAP. (μ F)
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	→	I-161-039-00	0.018	I-161-016-00	I-161-054-00	
0.0012	→	I-161-040-00	0.022	I-161-017-00	I-161-055-00	
0.0015		I-161-041-00	0.027	I-161-018-00	I-161-056-00	
0.0018		I-161-042-00	0.033	I-161-019-00	I-161-057-00	
0.0022		I-161-043-00	0.039	I-161-010-00	I-161-058-00	
0.0027	→	I-161-044-00	0.047	I-161-021-00	I-161-059-00	
0.0033	→	I-161-045-00	0.056	→	I-161-060-00	
0.0039	→	I-161-046-00	0.068	→	I-161-061-00	
0.0047	→	I-161-047-00	0.082	I-161-024-00	I-161-062-00	
0.0056	→	I-161-048-00	0.1	I-161-025-00	I-161-063-00	
0.0068	→	I-161-049-00				
0.0082	I-161-012-00	I-161-050-00				
0.01	I-161-013-00	I-161-051-00				
0.012	→	I-161-052-00				
0.015	I-161-015-00	I-161-053-00				

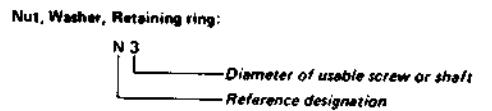
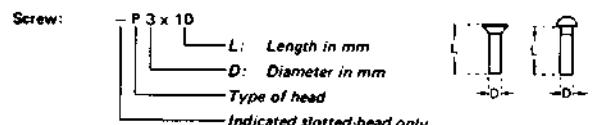
MYLAR CAPACITORS

CAP. (μ F)	RATING						
	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μ F)	50 VOLT.	100 VOLT.	200 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	I-108-227-00	I-108-365-00	I-108-409-00	0.01	I-108-239-00	I-108-377-00	

1/4 WATT CARBON RESISTORS

Ω	Part No.										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

9-950-841-11

Sony Corporation

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SUPPLEMENT

File this supplement with the service manual.

US Model ¹⁸⁸
Canadian Model
AEP Model
UK Model
E Model

No. 1
February, 1983

CHANGED PORTION

- Addition of the record head azimuth adjustment.
- Modification of a part of the schematic diagram and the mounting diagram, due to the Dolby C Level Adjustment addition.

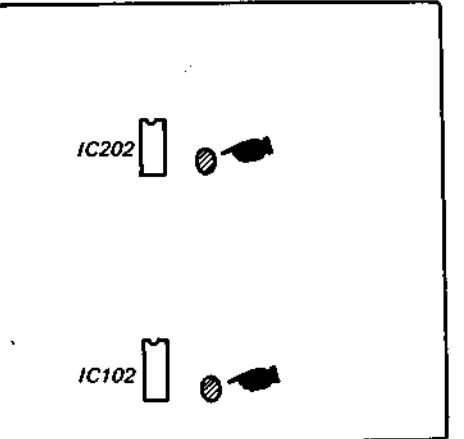
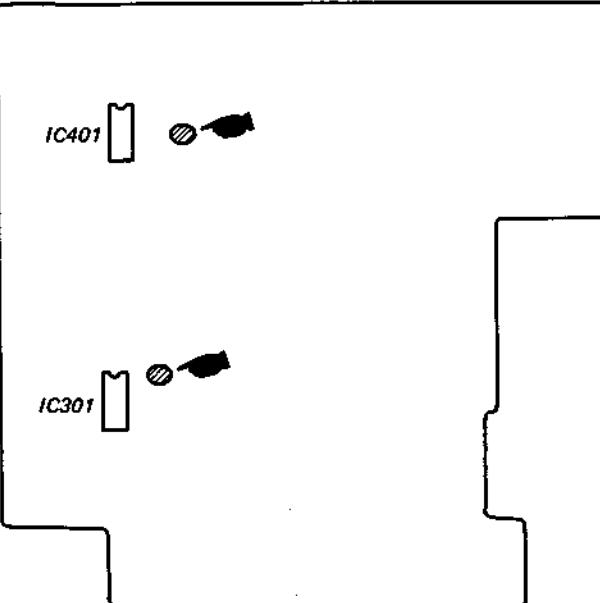
[Changed Parts List]

Ref. No.	Part No.	Description	
R165	1-214-964-00	METAL 1M 1% 1/4W	added
R265	1-214-964-00	METAL 1M 1% 1/4W	added
R3006	1-214-964-00	METAL 1M 1% 1/4W	added
R4006	1-214-964-00	METAL 1M 1% 1/4W	added
D701	8-719-902-33	DIODE SLR-34UR5	changed

- Addition of Dolby C level adjustment

Amp section - P35 -

changed portion:

[PLAYBACK BOARD]**[RECORD BOARD]****SAFETY CHECK-OUT (US Model)**

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

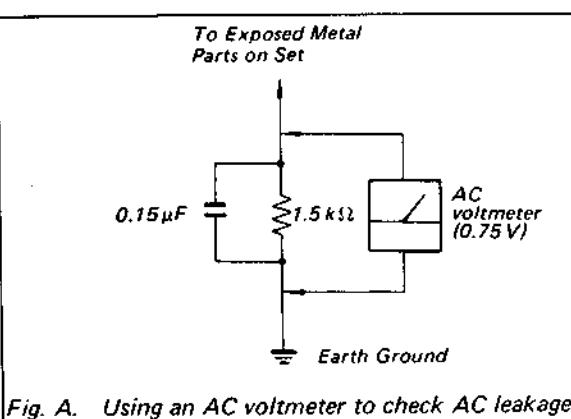


Fig. A. Using an AC voltmeter to check AC leakage.

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Consumer Products Group
Technical Support Dept.

English
83C06138-1
Printed in Japan
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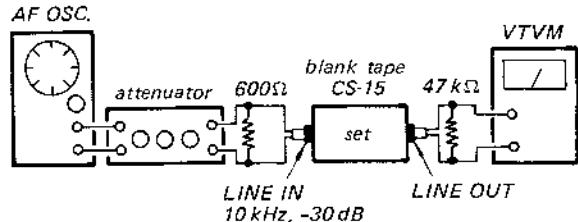
Record Head Azimuth Adjustment (Record head azimuth adjustment should be made later than playback head azimuth adjustment.)

Setting:

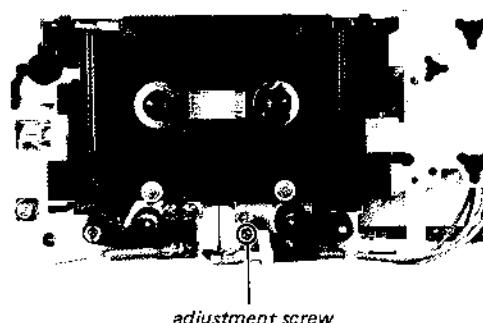
MONITOR: TAPE
REC LEVEL control: standard record
TAPE: TYPE I

Procedure:

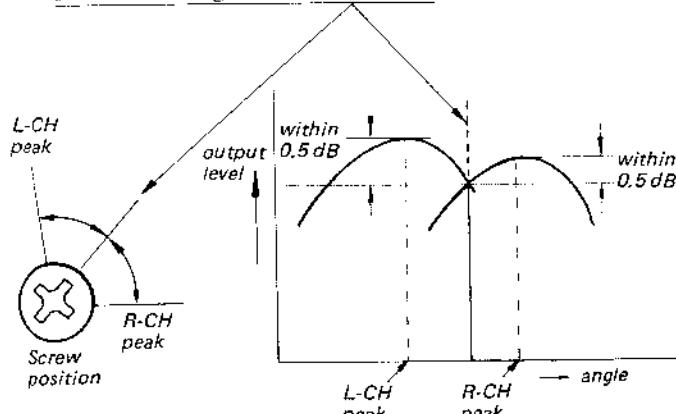
record and playback mode



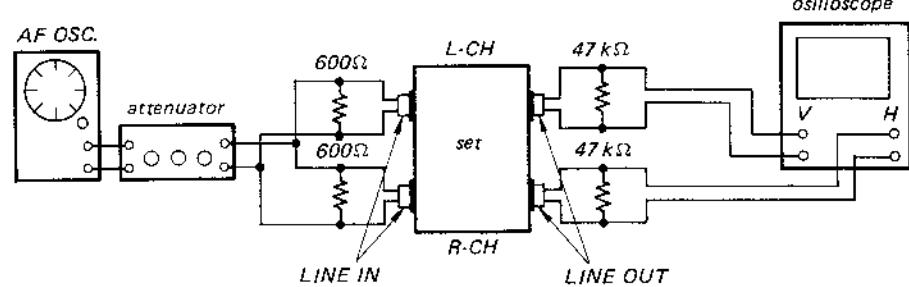
Adjustment Location:



- 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.



- Phase Check

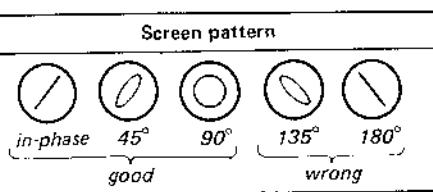


Adjust the screw so that L-CH and R-CH are in phase.

Specification:

Phase difference between L-CH and R-CH:
less than 90°

Level difference between L-CH and R-CH:
less than 1 dB



DOLBY C Level Adjustment

Setting:

MONITOR: TAPE
TAPE: TYPE I

- Set DOLBY switch to DOLBY C.
Adjust for obtaining the specification.

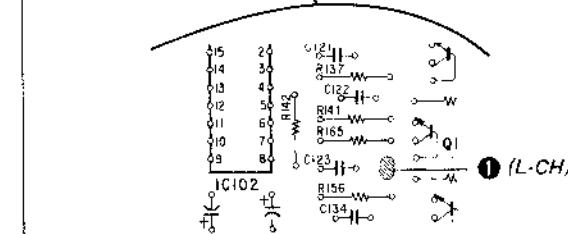
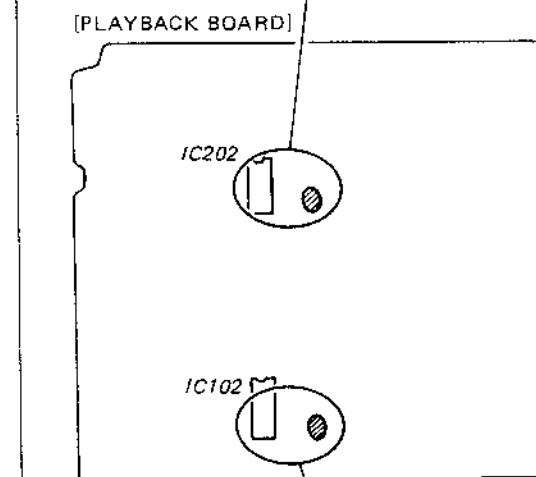
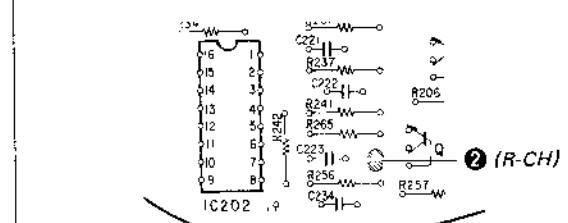
Specification:

- LINE OUT level: -25 dB ± 2 dB
- Level difference between L-CH and R-CH: less than 2 dB

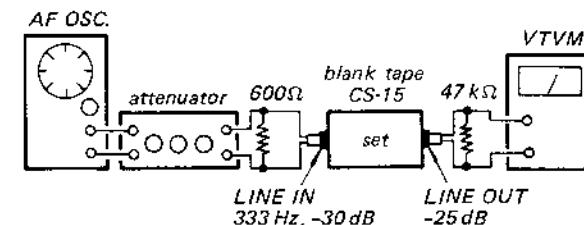
Adjustment Location:

- playback board -

If LINE OUT level is higher than the specification, unsolder the portion marked by ① (L-CH), ② (R-CH).

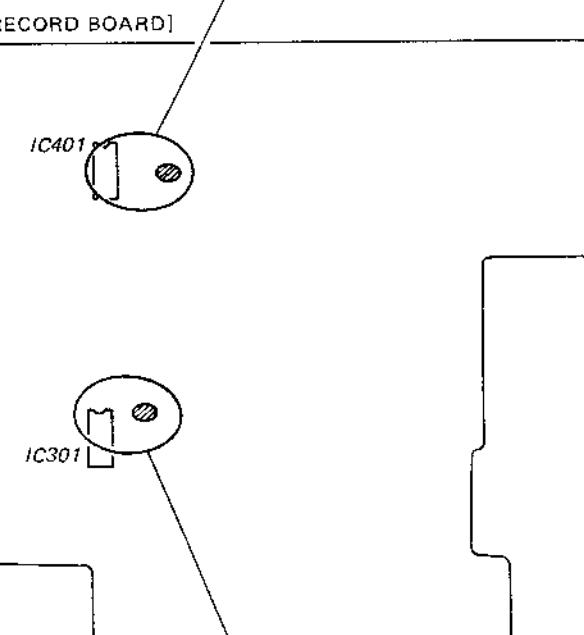
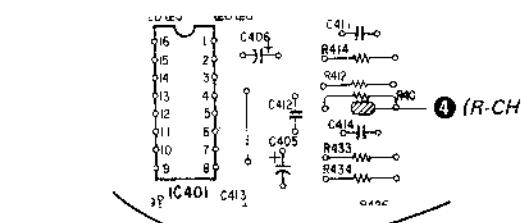


Procedure:
record and playback mode



- record board -

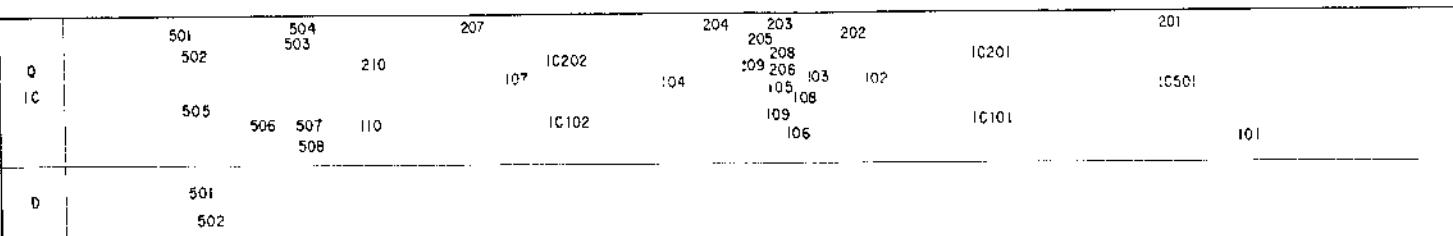
If LINE OUT level is lower than the specification, unsolder the portion marked by ③ (L-CH), ④ (R-CH).



TC-K555 **TC-K555**

COUNTING DIAGRAM

= Amp Section =



4

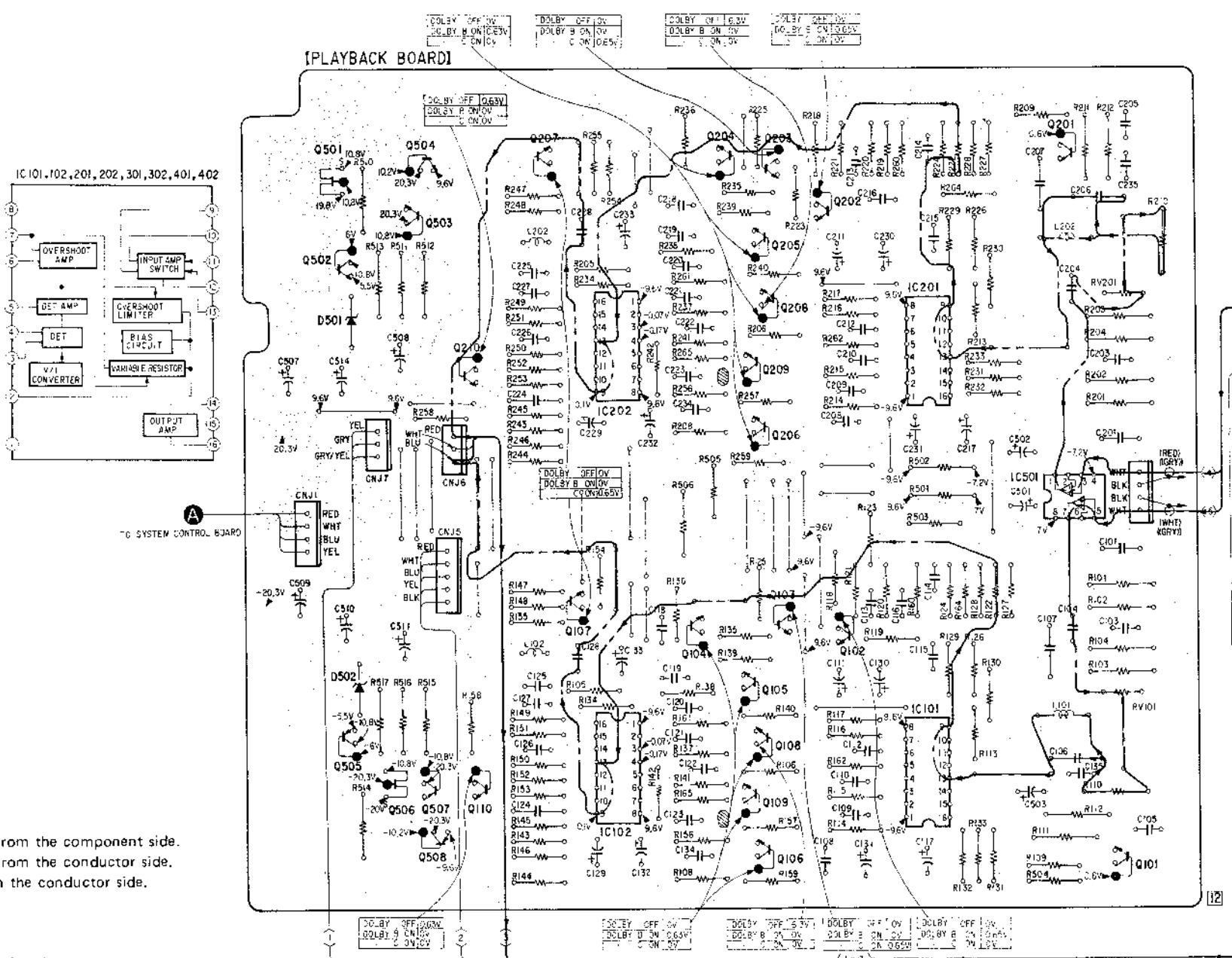
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Note:

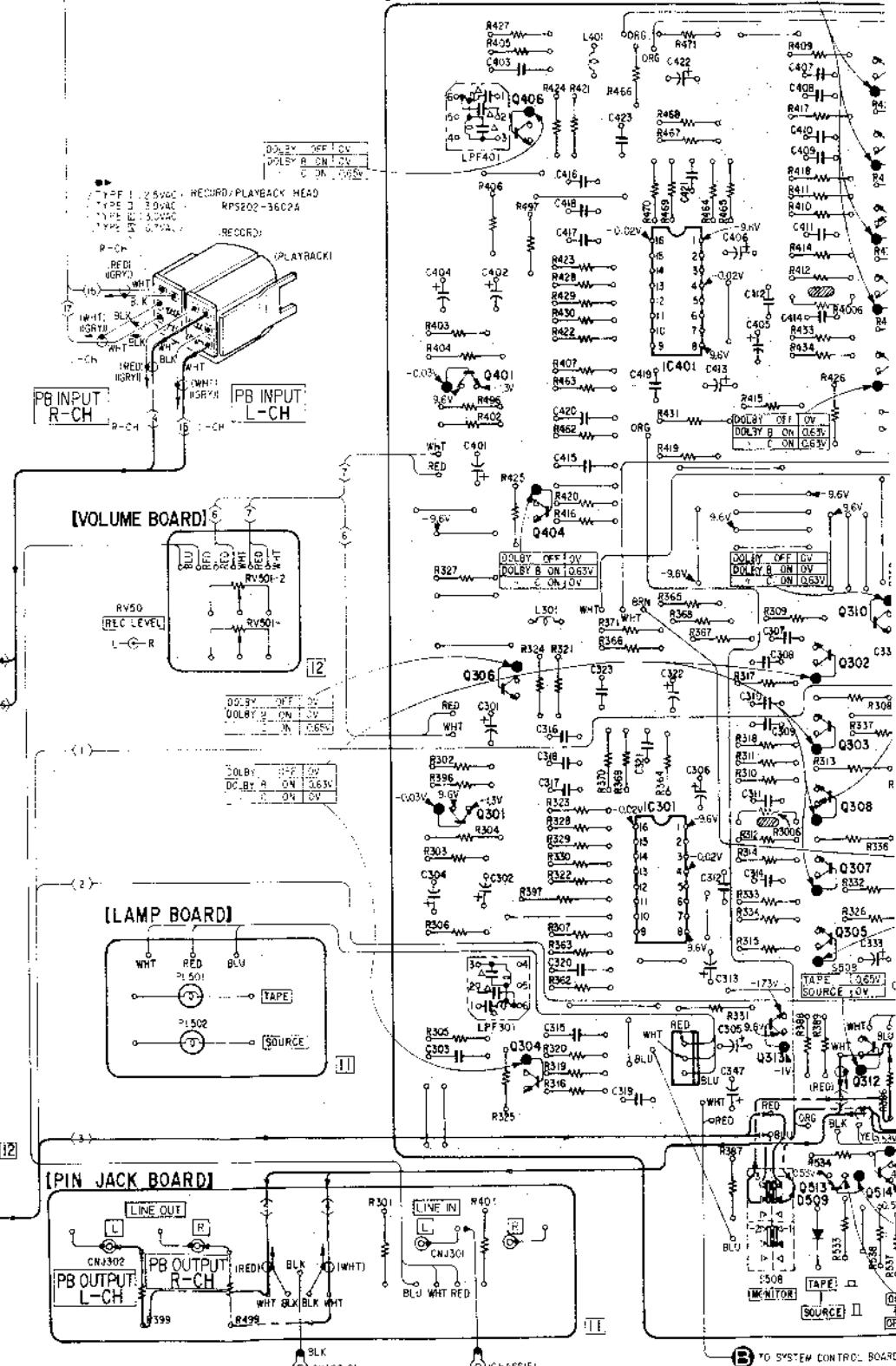
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.

- : signal path
- : L-CH signal path
- : R-CH signal path



1

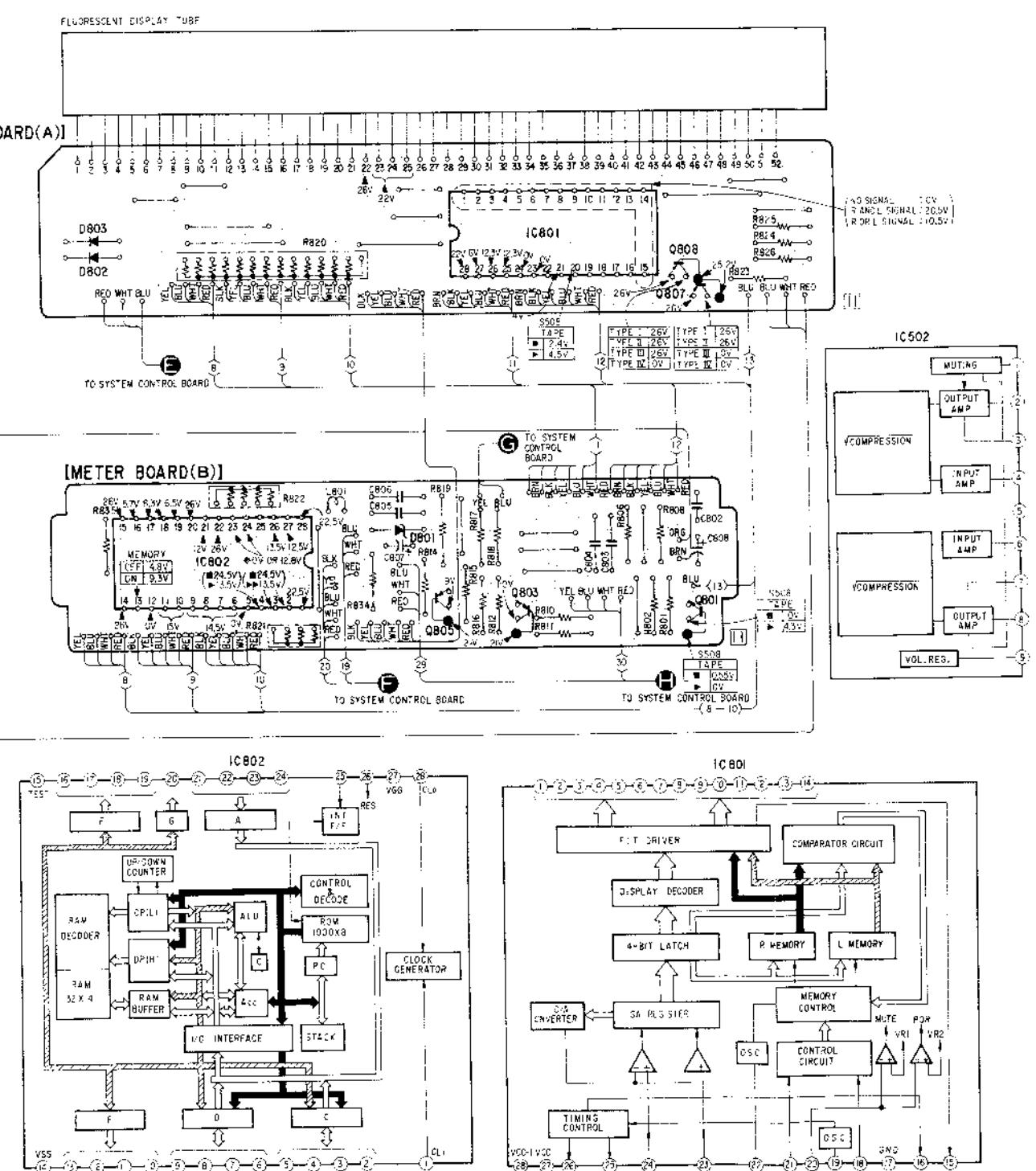
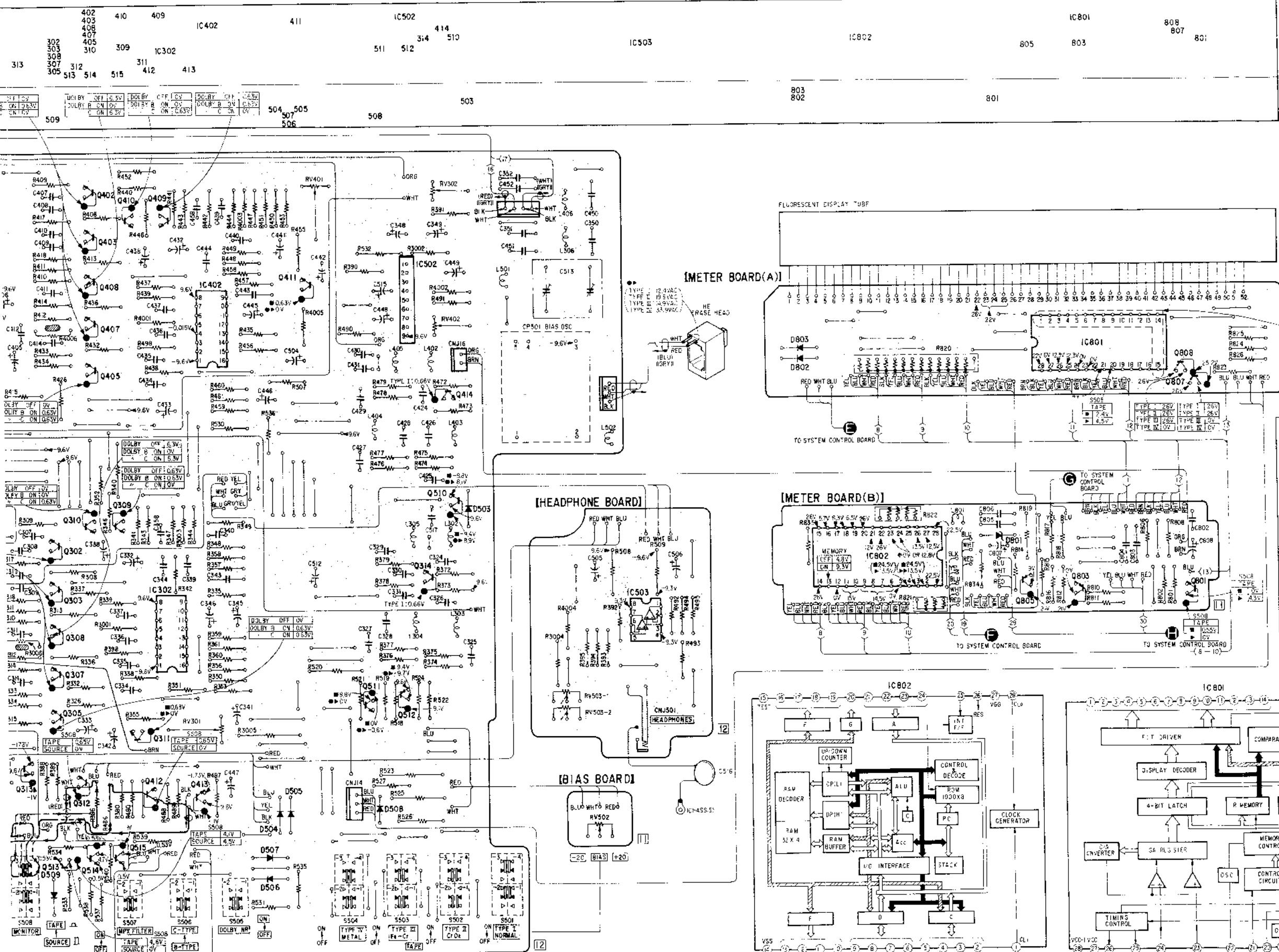
RECORD BOARD



© MASSIE

TC-K555 **TC-K555**

P | Q | R | S | T | U | V | W | X | Y | Z | A1 | B1 | C1 | D1 | E1 |



SCHEMATIC DIAGRAM

- Amp Section -

--- changed portion

[RECORD BOARD]

[PLAYBACK BOARD(1/3)]

IC501 NJM2043D
PLAYBACK EQ AMP

IC101 CX174-I
DOLBY NR / PLAYBACK AMP

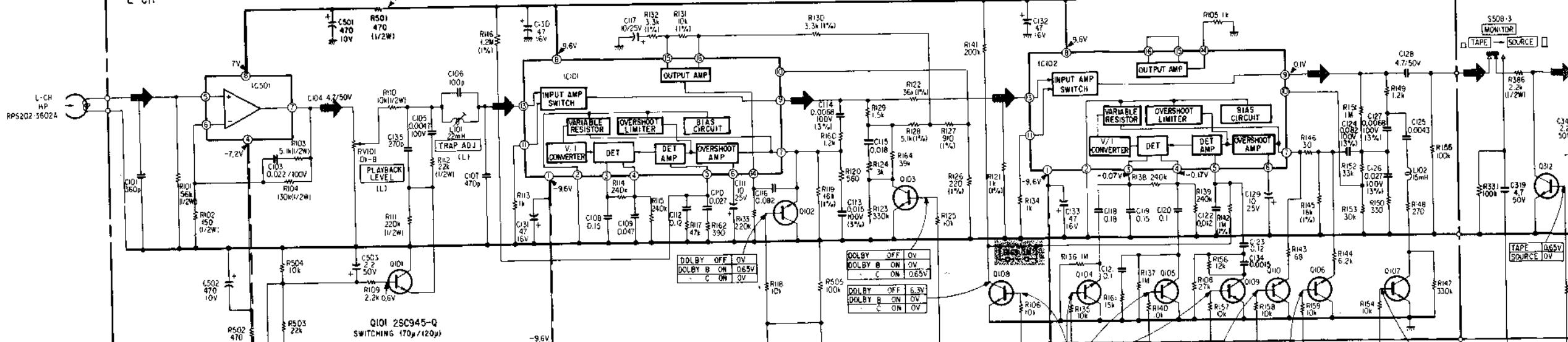
Q102,103 2SC1364-B
SWITCHING (DOLBY B/C)

IC102 CX174-I
DOLBY NR / PLAYBACK AMP

Q104 - 10 2SC1364-B
SWITCHING (DOLBY B/C)

[RECORD BOARD]

L-CH



[PIN JACK BOARD(1/4)]

[VOLUME BOARD(1/2)]

Q314 2SC1364-B

SWITCHING (REC EO1)

TYPE I NORMAL

S501-1 ON - OFF

TYPE II Cx02

ON - OFF

TYPE III Fe-Cr

ON - OFF

TYPE IV METAL

ON - OFF

IC301 CX174-I

DOLBY NR / RECORD AMP

DOLBY OFF 7.6V

DOLBY B ON 6.3V

C ON 0V

DOLBY OFF 0V

DOLBY B ON 0.63V

C ON 0V

DOLBY OFF 0V

DOLBY B ON 0.63V

C ON 0V

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DOLBY B ON 0.63V

C ON 0V

DOLBY OFF 0V

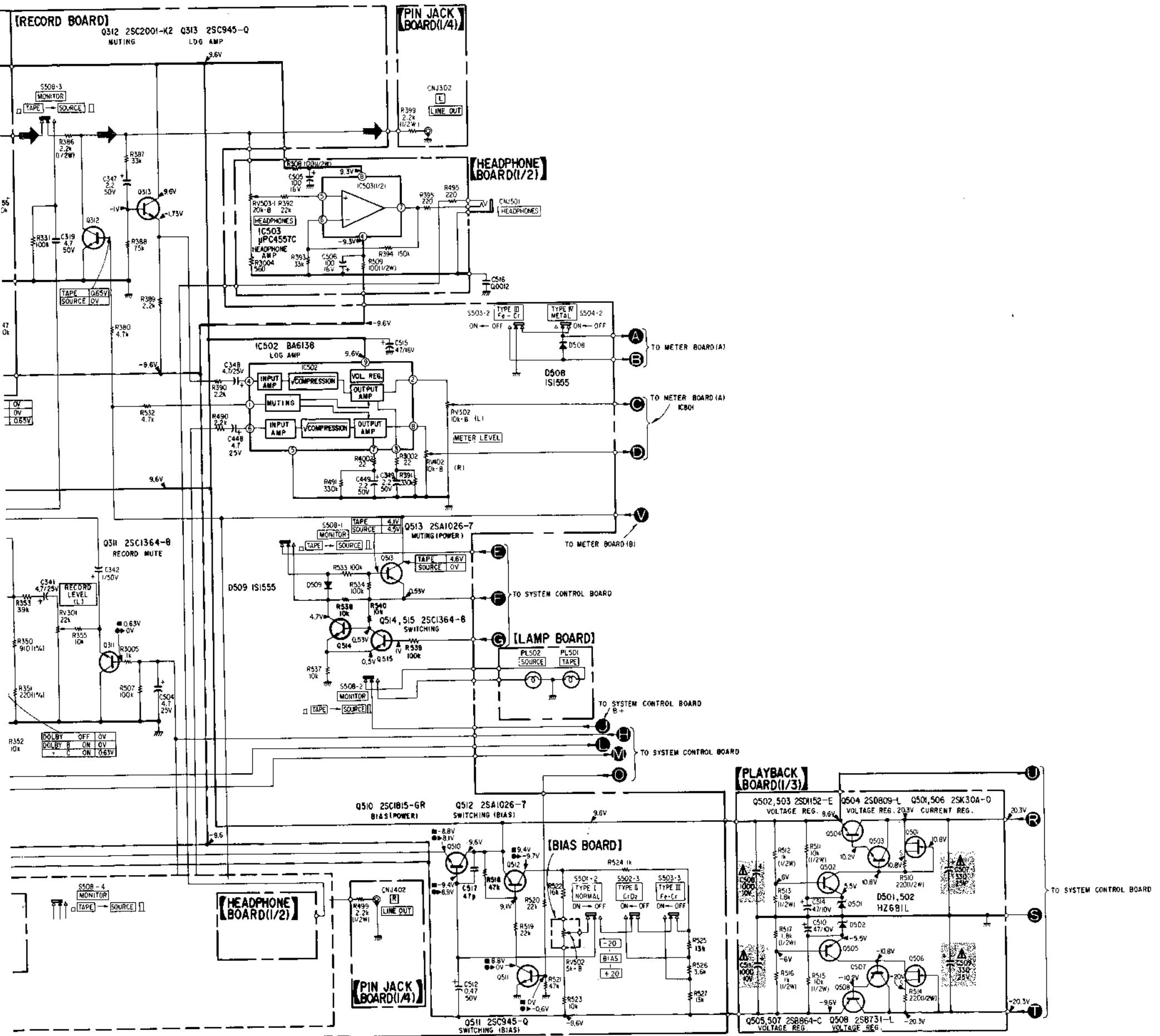
DOLBY B ON 0.63V

C ON 0V

DOLBY OFF 0V

DOLBY B ON 0.63V

P | A | R | S | T | U | V | W | X | Y | Z | A1 | B1 | C1 | D1 | E1



Note:

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

Note: Voltages are measured with a VOM ($50\text{k}\Omega/\text{V}$).

Note: The components identified by shading and mark

⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.