

TC-K555E II

SERVICE MANUAL

Canadian Model
AEP Model
E Model



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 (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)	62 dB	69 dB	75 dB
TYPE II (Sony UCX)	59 dB	66 dB	72 dB
TYPE I (Sony BHF or HFX)	56 dB	63 dB	69 dB

Total harmonic distortion

0.8 % (with Sony FeCr cassette)

Frequency response DOLBY NR OFF

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

Wow and flutter

$\pm 0.04\%$ W, Peak (IEC)
 0.025% W, RMS (NAB)

Inputs

Line inputs (phono jacks)
Sensitivity 77.5 mV (-20 dB)
Input impedance 47 k ohms

General

Power requirements 220 V ac, 50/60 Hz (AEP model)
(240 V ac adjustable by authorized
Sony personnel)

Power consumption 30 watts
Dimensions Approx. 430 x 105 x 330 mm (w/h/d)
(17 x 4 $\frac{1}{4}$ x 13 inches)

Weight
Outputs

including projecting parts and controls
Approx. 6.6 kg (14 lbs 9 oz)
Line outputs (phono jacks)
Output level 0.44 V (-5 dB) at a load
impedance of 47 k ohms
Load impedance over 10 k ohms
Headphone output
Output level, variable from 0.003 to
3 milliwatts at a load impedance of
32 ohms

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET
UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉ-
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
PLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR
SONY.

STEREO CASSETTE DECK
SONY®



TC-K555ES II

FEATURES

Rigid mechanism

- The capstan shaft is directly driven by the quartz locked servo BSL (brushless and slotless) motor which provides accurate rotation.
- Two pairs of capstan shafts 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.
- The capstan shaft bearing plate is reinforced with 3 mm thick aluminium plate to reduce unnecessary vibration.

High quality audio amp section

- The audio amp section uses independent right and left Dolby NR ICs and has a twin-mono construction in which right and left channel parts are located symmetrically, to obtain clear stereo sound without cross-talk.
- The signal path and head coil made of LC-OFC* (Linear Crystal Oxygen Free Copper) provide high quality sound.

Independent suspension 3-head system

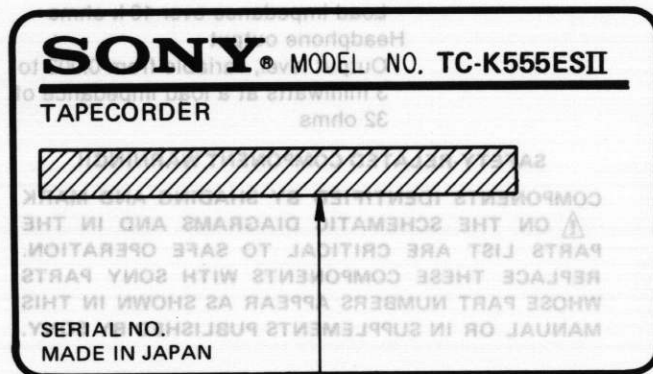
- With the independent suspension 3-head system, each head can be adjusted while it is installed in the mechanism.
- The record and playback heads are made of a laser amorphous magnetic alloy using LC-OFC winding. These highly durable heads provide a wider dynamic range and a more extended frequency response, especially in the high-frequencies.

Useful functions

- The digital linear counter indicates the recording or playback time elapsed on the tape so that the tape can be precisely indexed.
- Bright FL-display peak program meters follow the transient peaks of the music and maintain the peak readings.
- Using the optional remote control unit, various operations can be remotely controlled.
- A timer switch is provided to turn the deck on and off at preset times set using the optional timer.

MODEL IDENTIFICATION

— Specification Label —



Canadian model: AC 120 V 60 Hz 30 W
 AEP model: AC 220 V ~ 50/60 Hz 30 W
 E model: AC 110, 120, 220, 240 V ~ 50/60 Hz 30 W

SPECIFICATIONS

Power consumption 30 watts
 Dimensions Aprox. 430 x 105 x 330 mm (w/rid)
 17 x 4.1 x 13 inches
 including protecting parts and controls
 Weight Aprox. 8.8 kg (19 lbs 9 oz)
 Outputs Line output level 0.5 V (100 ohms impedance)
 Output level 0.5 V (100 ohms impedance)

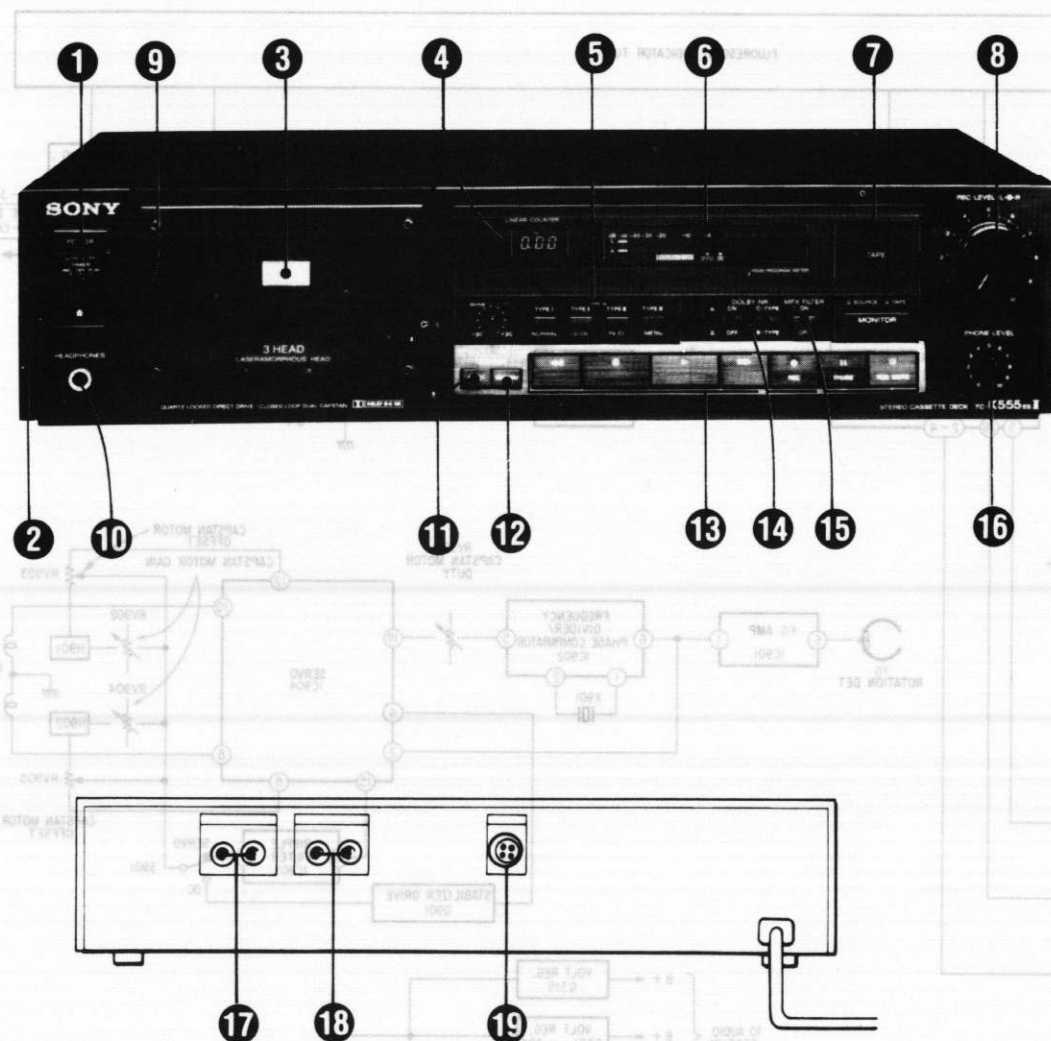
Recording system	Fast-forward and rewind time	Bias frequency	Signal-to-noise ratio (at peak level)
4-track 2-channel stereo	Approx. 90 sec. (with C-60 cassette)	105 kHz	
Cassette			
TYPE IV (Sony METALLIC)	73 dB	87 dB	80 dB
TYPE III (Sony FeCr)	75 dB	89 dB	82 dB
TYPE II (Sony UCX)	73 dB	88 dB	80 dB
TYPE I (Sony BHF or HF)	89 dB	93 dB	86 dB

Total harmonic distortion 0.8% (with Sony FeCr cassette)
 Frequency response DOLBY NR OFF
 • With TYPE IV cassette (Sony METALLIC)
 20 - 19,000 Hz (±3 dB) (DIN)
 20 - 14,000 Hz (±3 dB, 0 VU recording)
 15 - 20,000 Hz
 • With TYPE III cassette (Sony FeCr)
 20 - 19,000 Hz (±3 dB) (DIN)
 15 - 20,000 Hz
 • With TYPE II cassette (Sony UCX)
 20 - 18,000 Hz (±3 dB) (DIN)
 15 - 19,000 Hz
 • With TYPE I cassette (Sony BHF or HF)
 20 - 17,000 Hz (±3 dB) (DIN)
 15 - 18,000 Hz
 Wow and flutter ±0.04% W, Peak (IEC)
 0.025% W, RMS (NAB)
 Line inputs (phono jacks)
 Sensitivity 77.5 mV (-20 dB)
 Input impedance 47 k ohms



SECTION 1
OUTLINE

1-1 LOCATION AND FUNCTION OF CONTROLS



FUNCTION OF CONTROLS

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 **II** (pause) button will blink for about 3 seconds, indicating that the function buttons are inoperative during this period. Press this switch again to turn the power off.

② TIMER switch

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

③ Cassette holder

Insert the cassette into this holder. If the cassette holder is not completely closed, the function buttons cannot be operated.

⑤ LINEAR COUNTER

This counter indicates the tape running time.

⑥ 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), TYPE II (CrO₂) or TYPE III (Fe-Cr) tape, adjust the BIAS control.

⑦ Peak program meters

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 2.4 seconds on the scale, except when a higher peak occurs before 2.4 seconds have passed, in which case that peak is immediately indicated.

⑧ MONITOR switch and indicator

When adjusting the recording level, set this switch to the released position (SOURCE Δ) to allow monitoring of the sound to be recorded. During playback, depress this switch (TAPE Δ) 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 (eject) button

Press this button to open the cassette holder.

⑪ 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 PHONE LEVEL control.

⑫ COUNTER RESET button

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

⑬ 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.

⑭ 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. This button is also used, with the **▶** button, to initiate auto play.

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

II (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.

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

⑮ 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 B-TYPE (Δ) or C-TYPE (Δ).

To record without the Dolby NR process, press the ON/OFF switch again to 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 Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

⑯ 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.

When your tuner is not equipped with the MPX filter or when the recorded FM broadcasting sound is audibly distorted, set this switch to ON.

⑰ PHONE 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.

Rear panel

⑱ LINE IN (line input) jacks (phono jack)

Accepts tape outputs from an amplifier for tape recording and line outputs from another tape deck when duplicating a tape from that unit.

⑲ LINE OUT (line output) jacks (phono jack)

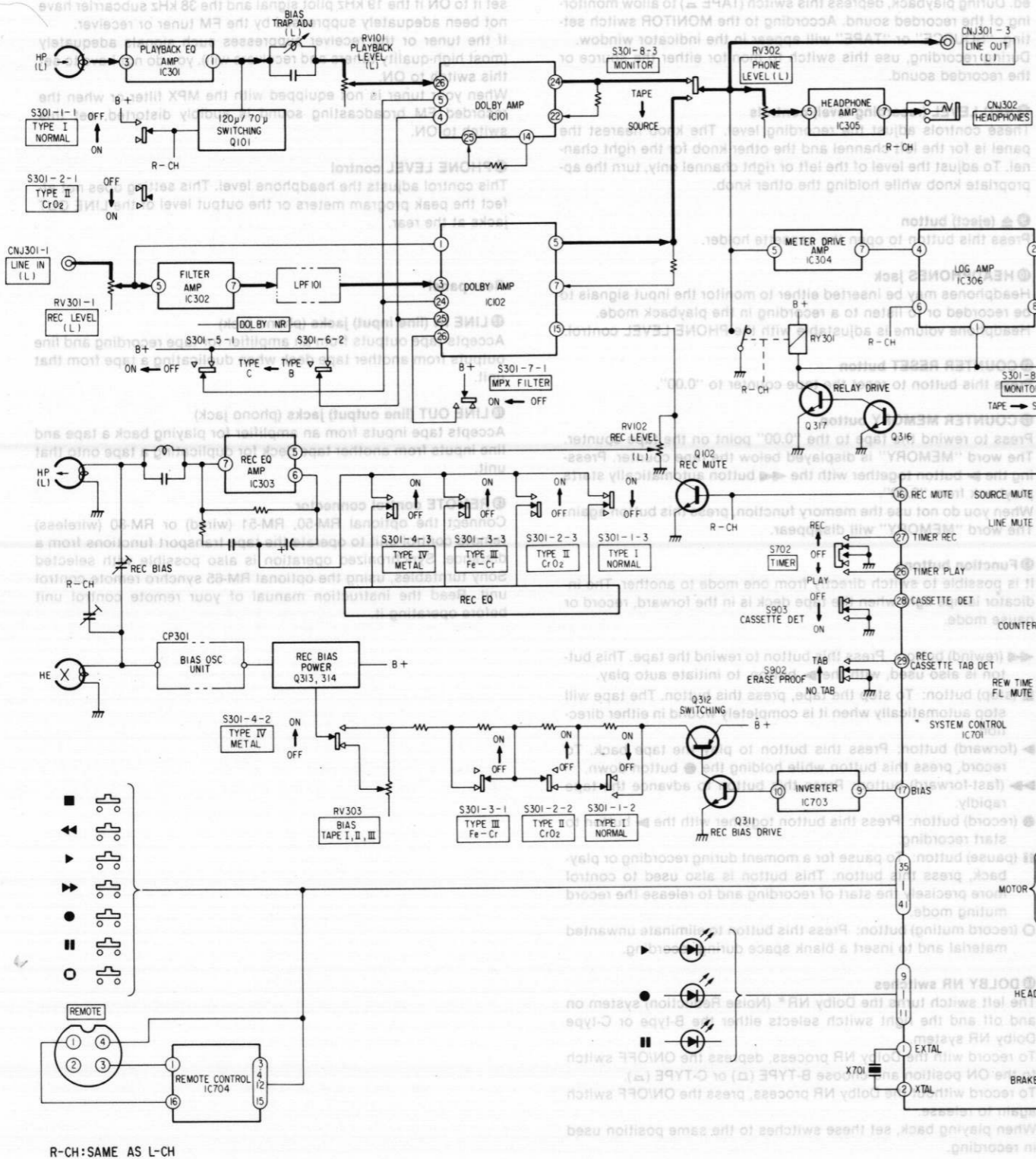
Accepts tape inputs from an amplifier for playing back a tape and line inputs from another tape deck for duplicating a tape onto that unit.

⑳ REMOTE control connector

Connect the optional RM-50, RM-51 (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.

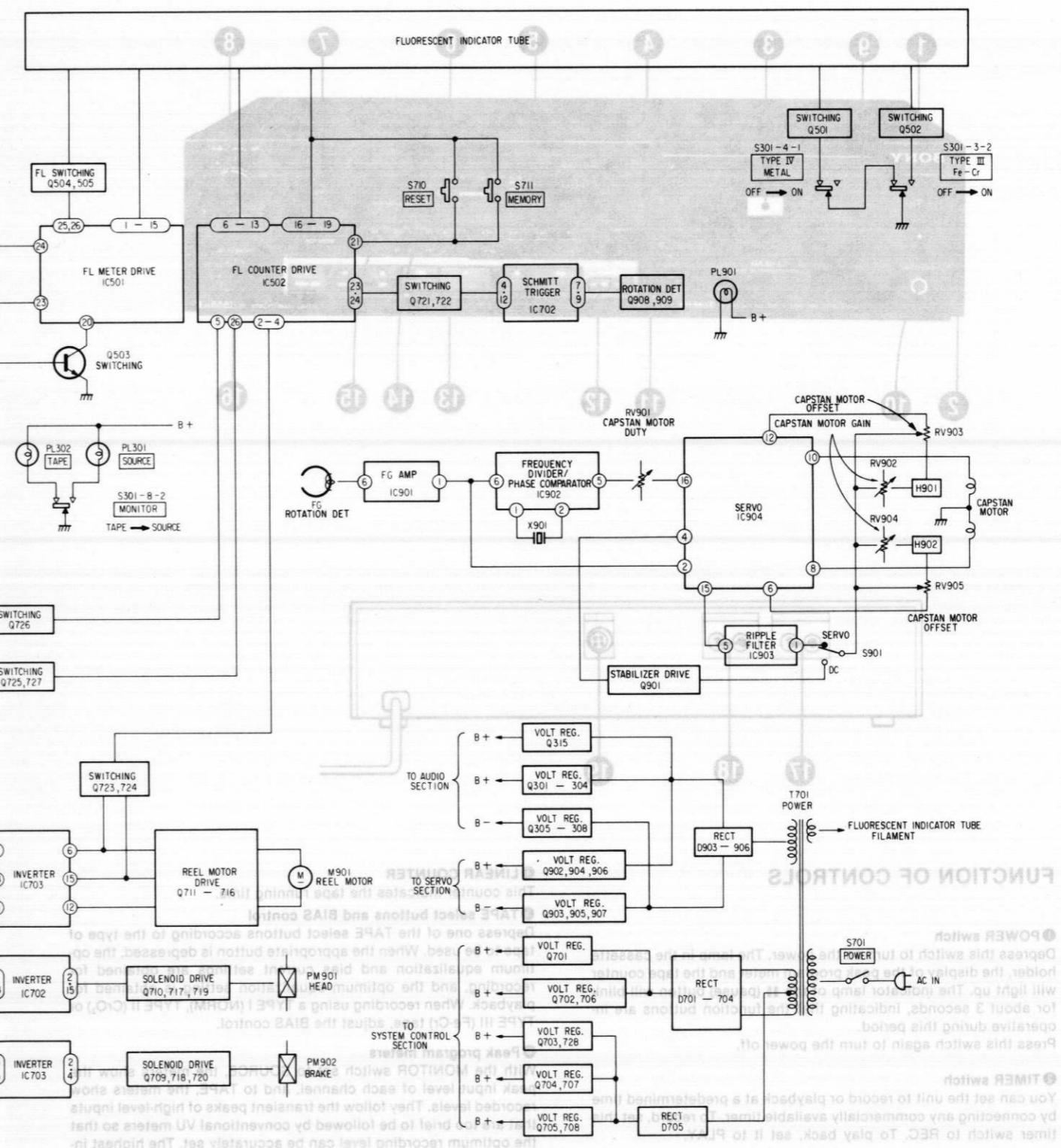
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



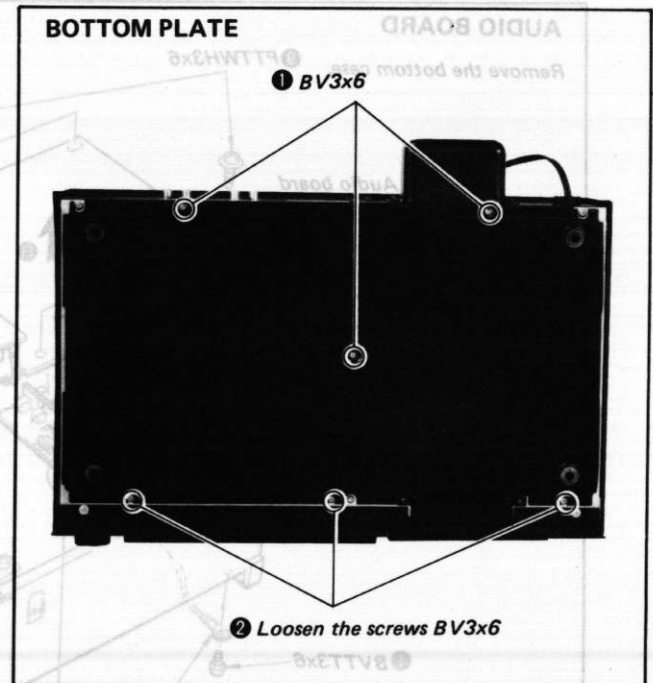
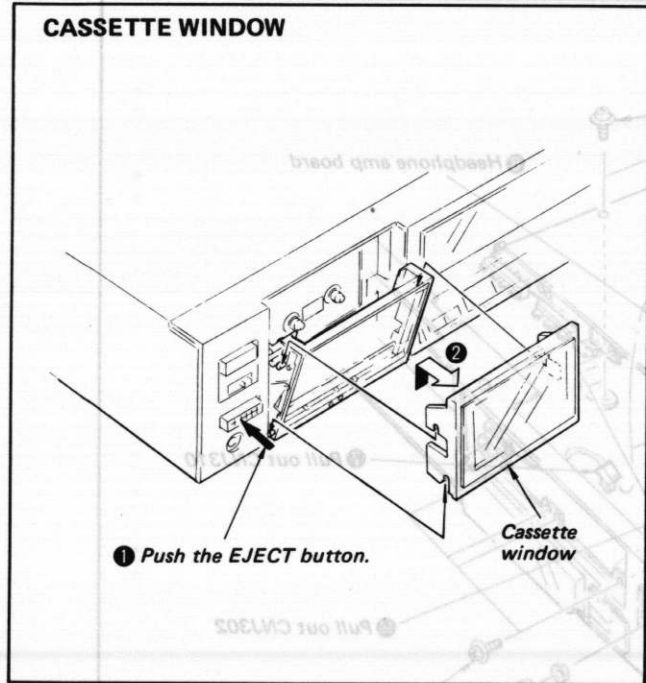
R-CH: SAME AS L-CH

SECTION 1
OUTLINE



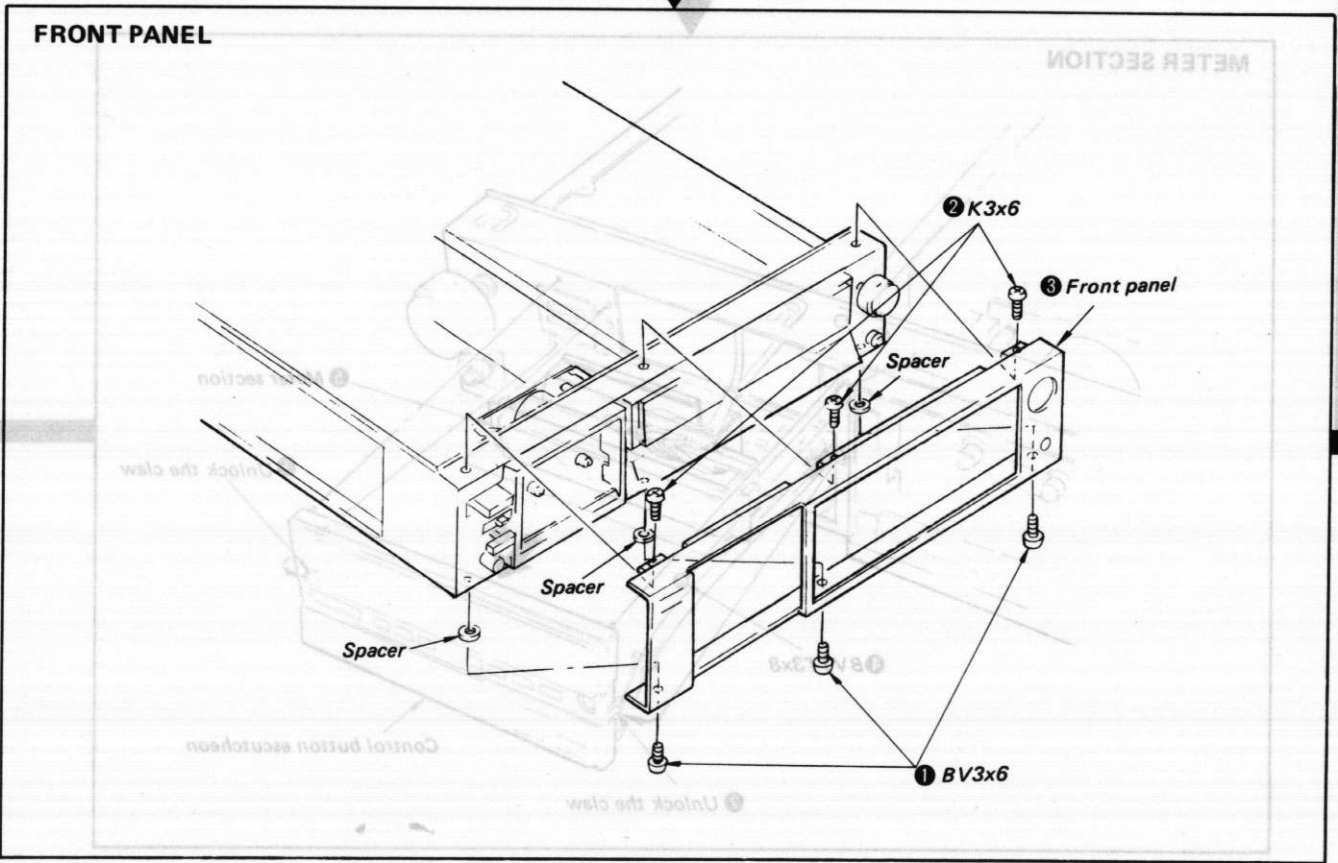
SECTION 2 DISASSEMBLY

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



CASE

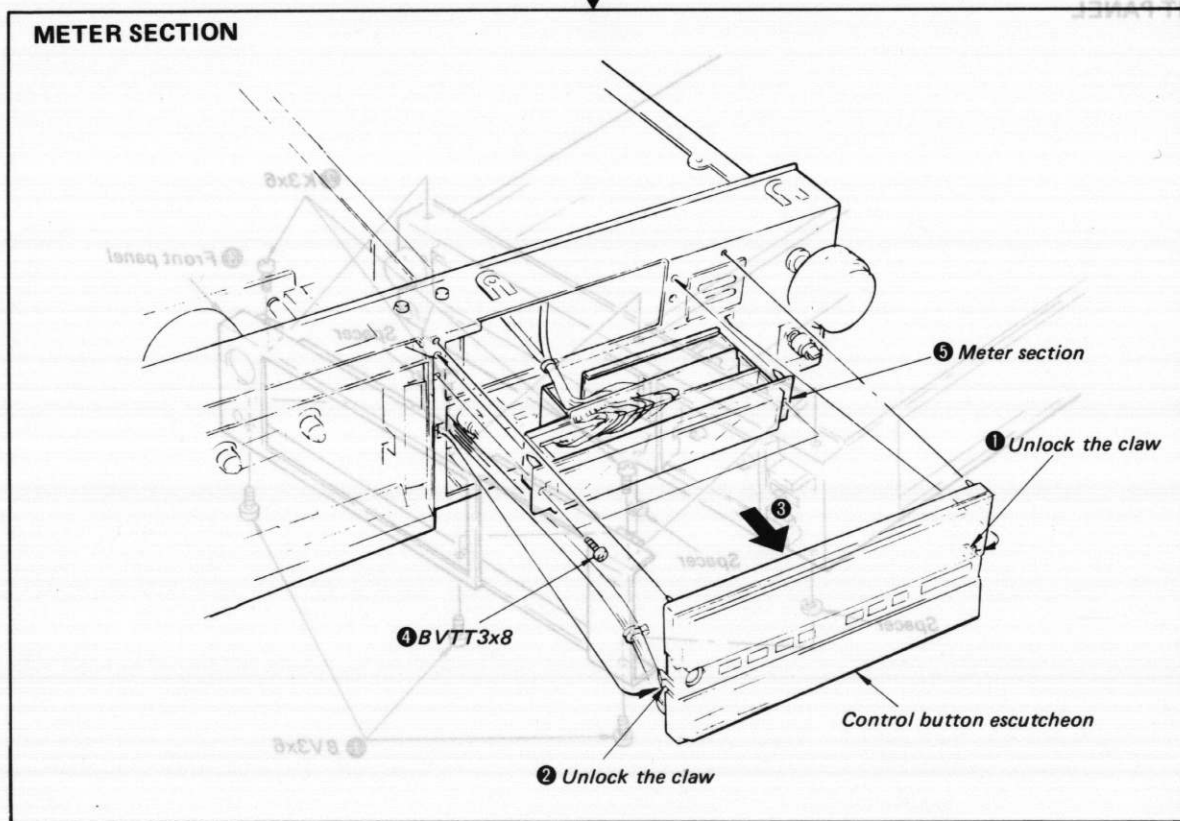
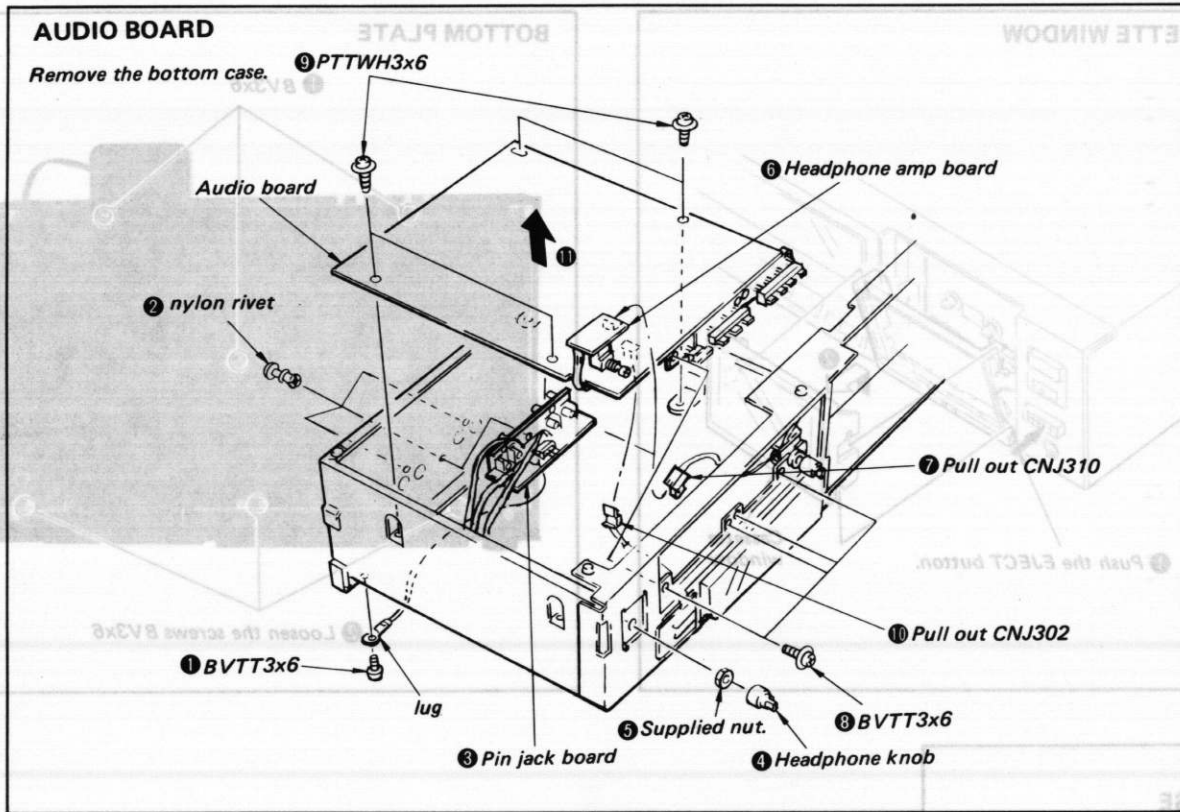
Remove four case screws at left and right side.

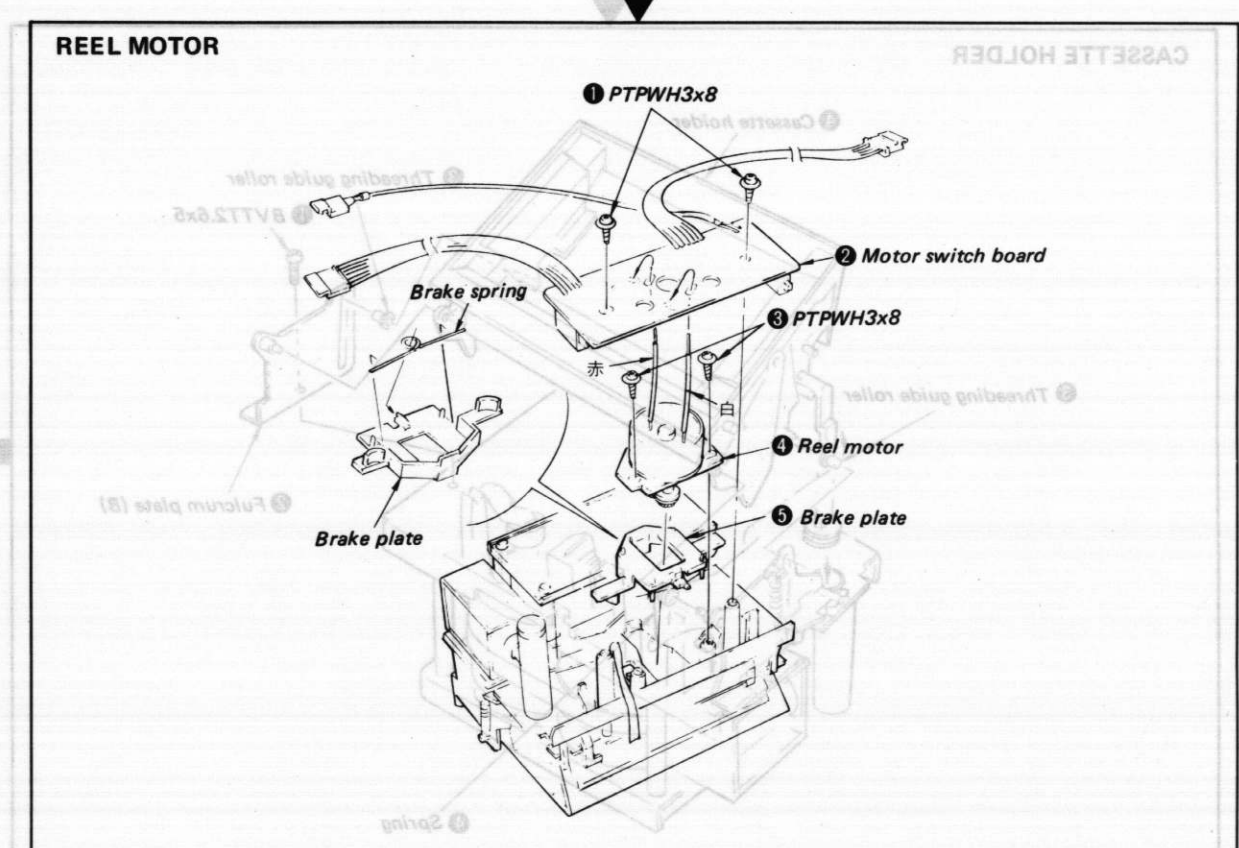
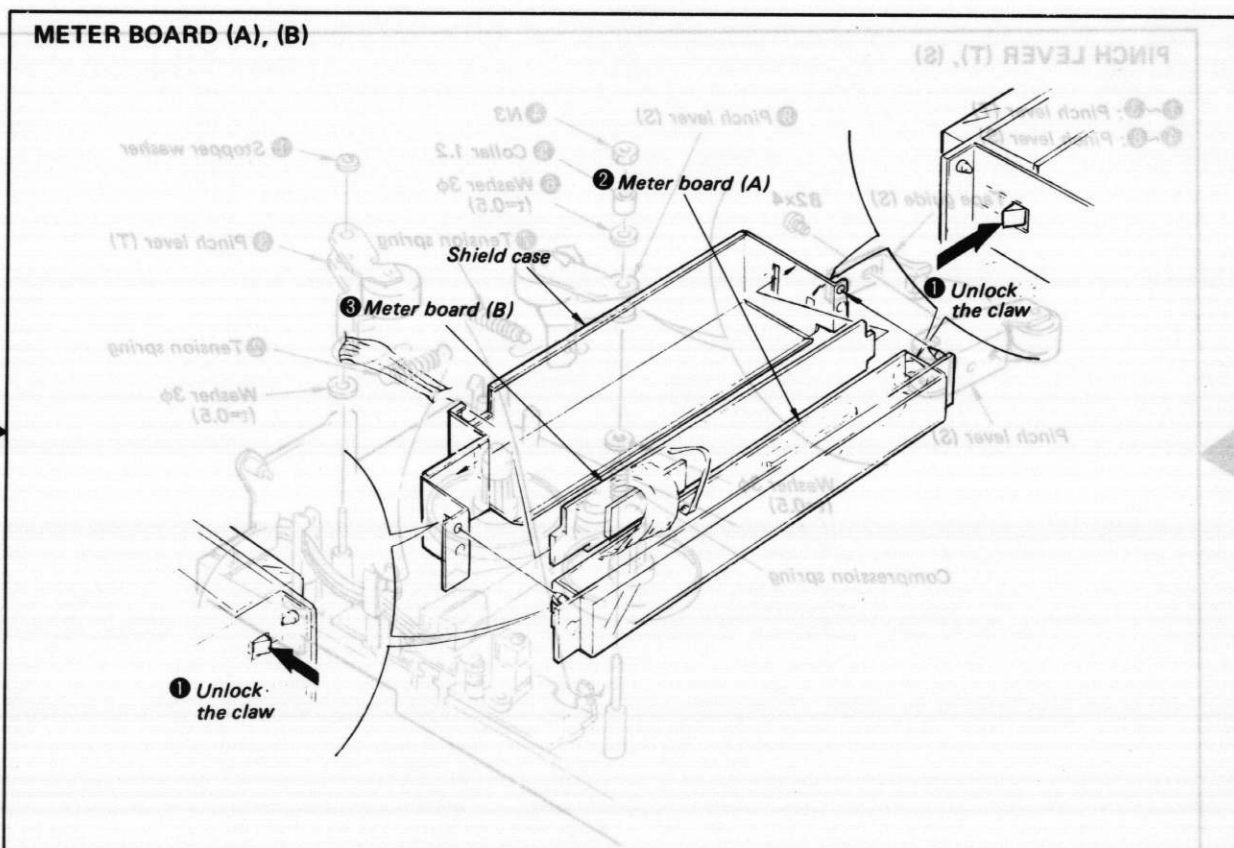
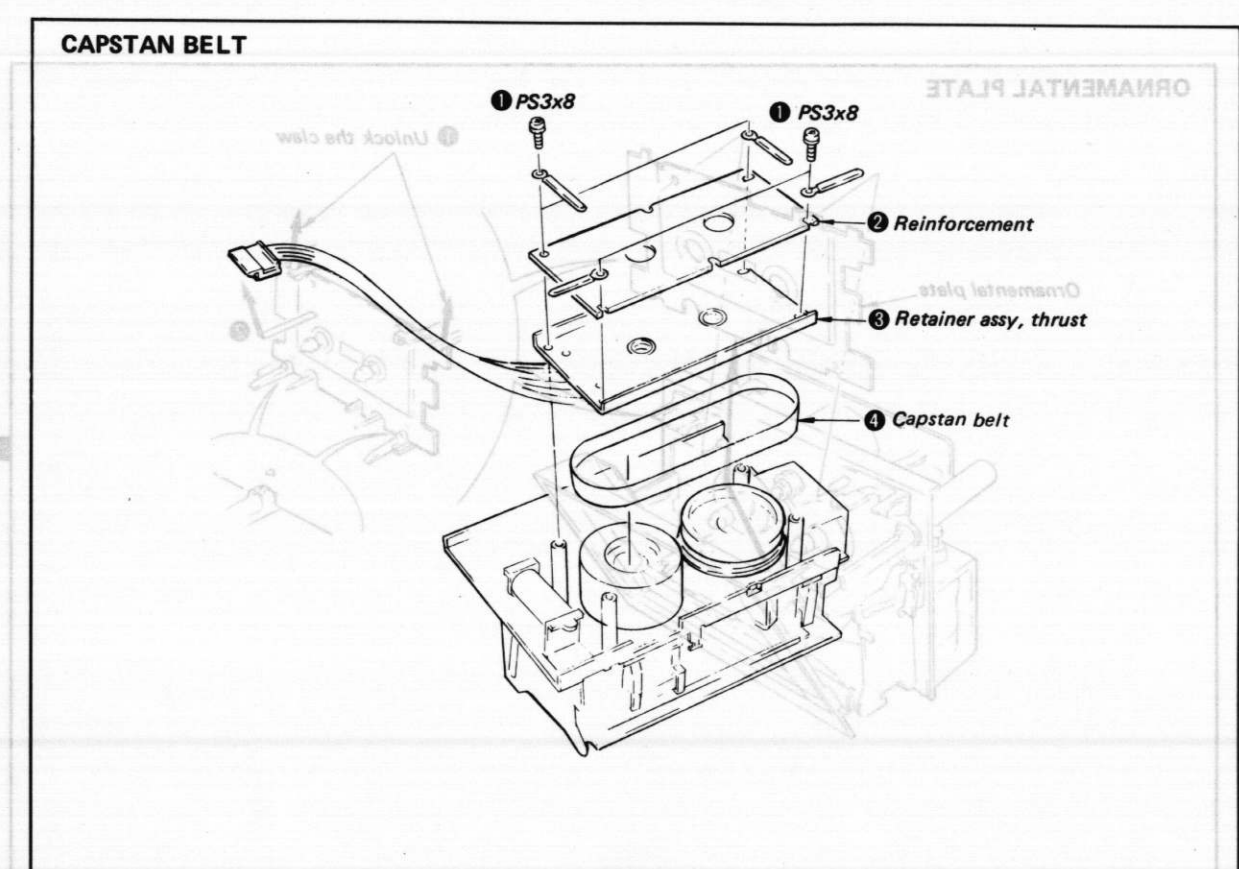
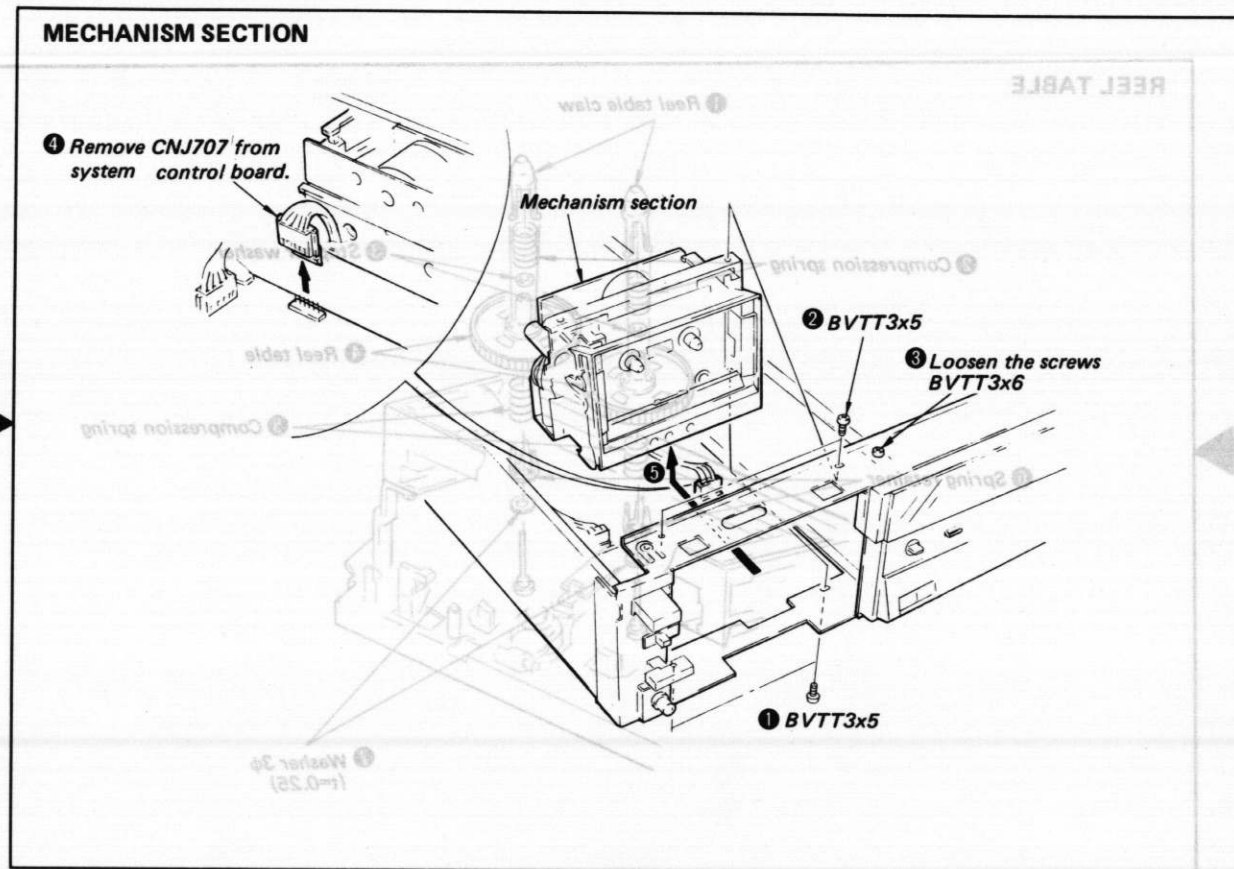


TC-K555ESII

SECTION 2 DISASSEMBLY

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

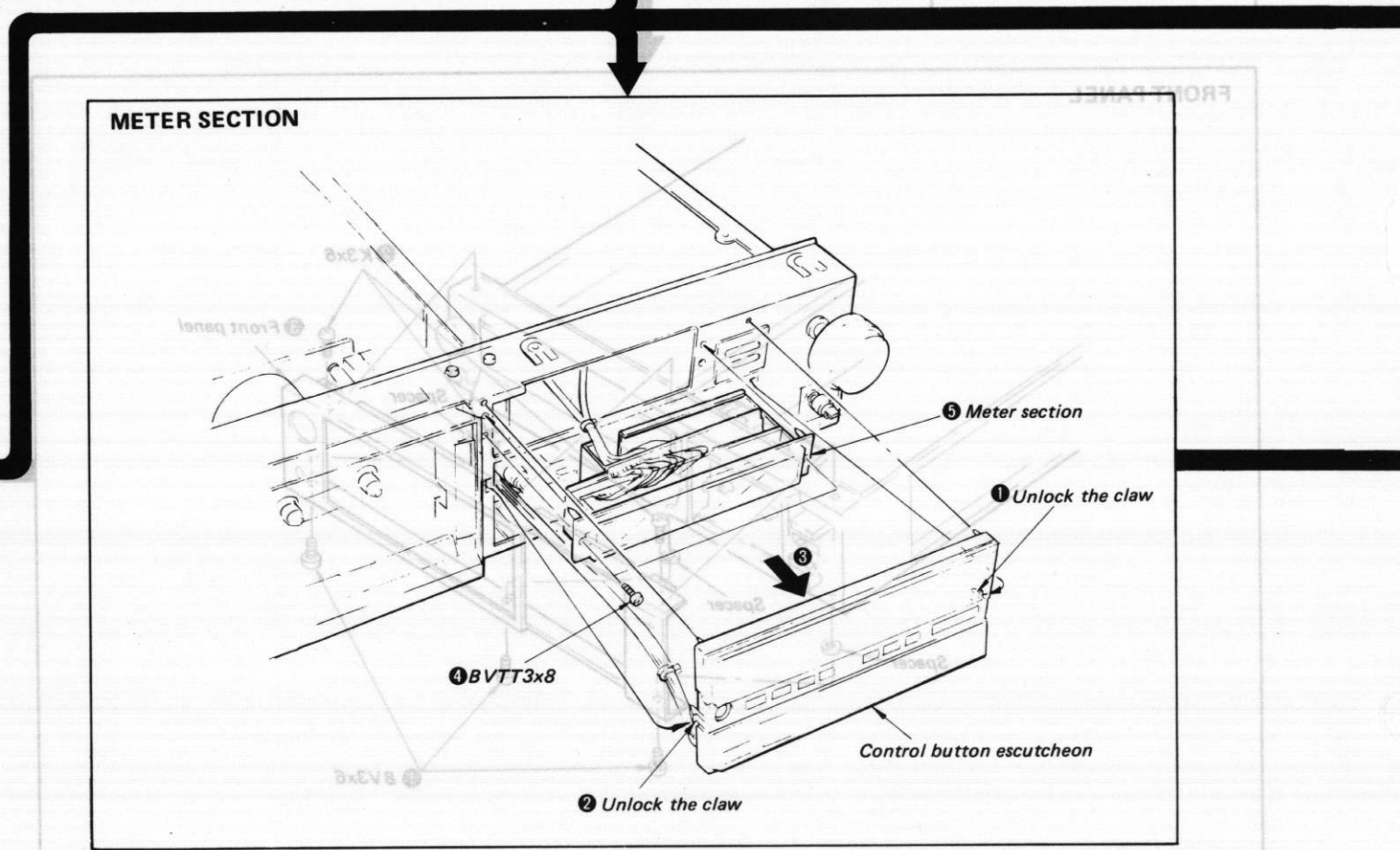
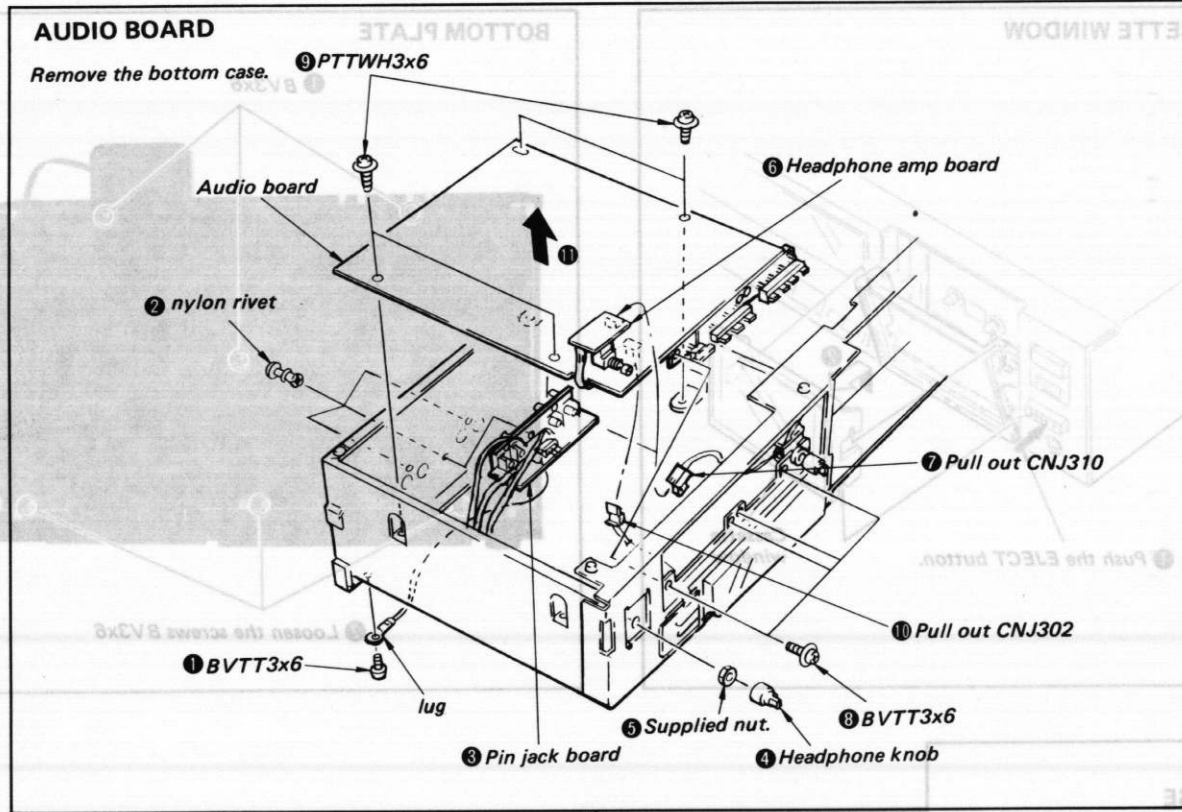




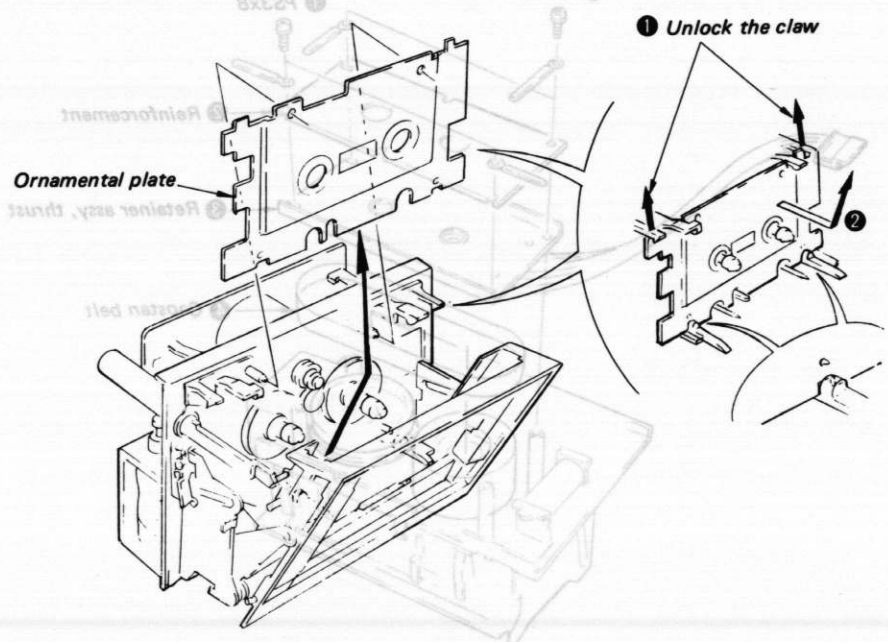
TC-K555ESII

SECTION 2 DISASSEMBLY

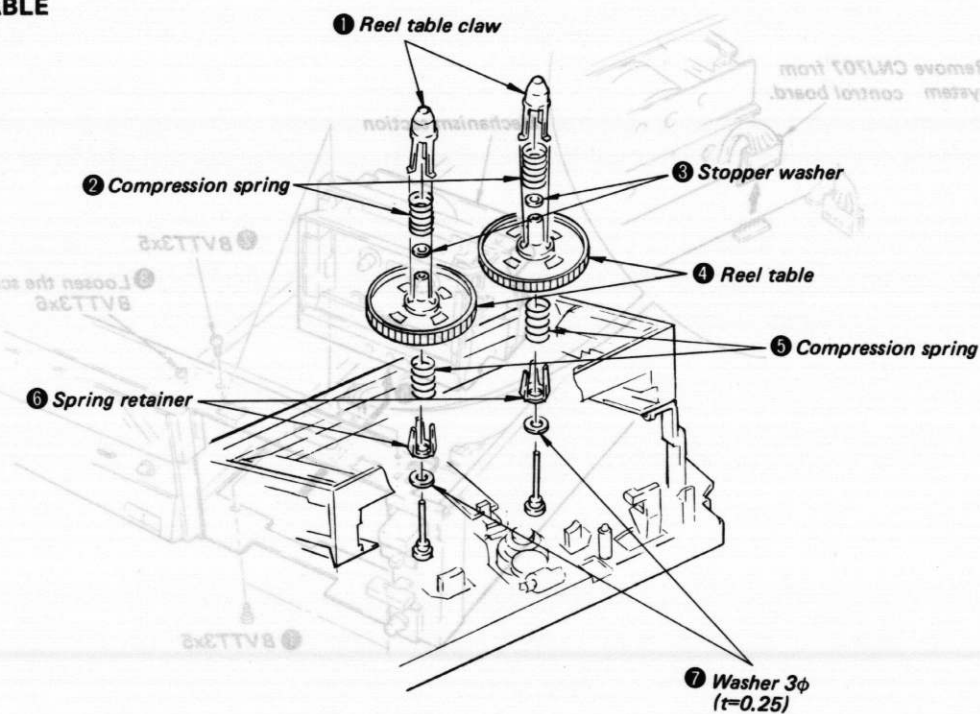
Note: Follow the disassembly procedure in the numerical order given.



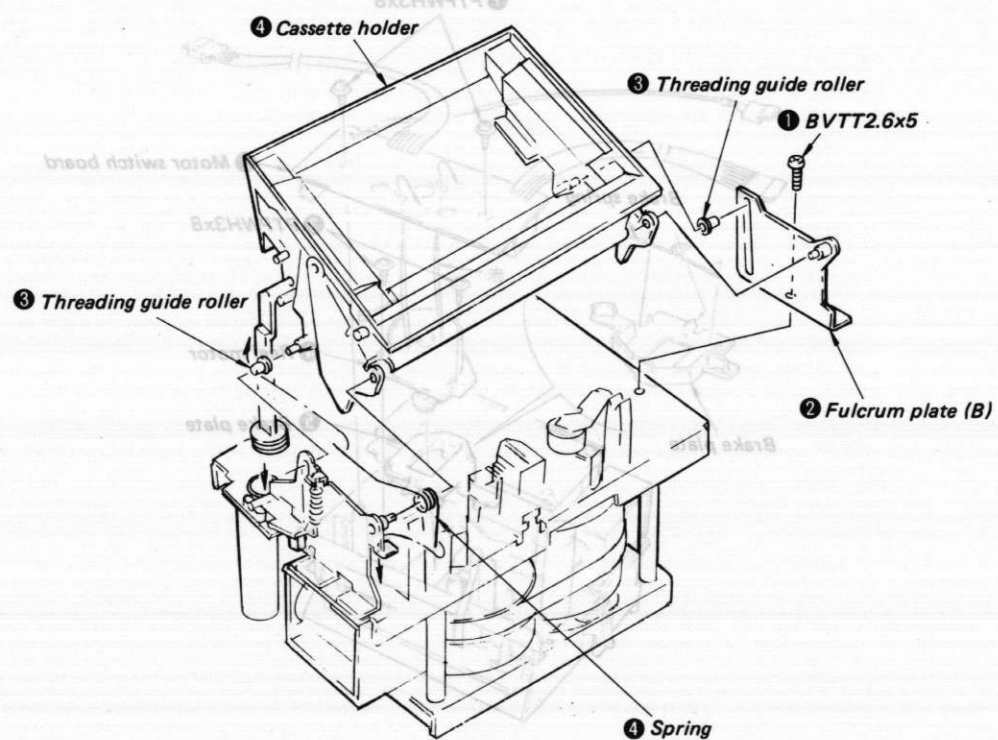
ORNAMENTAL PLATE



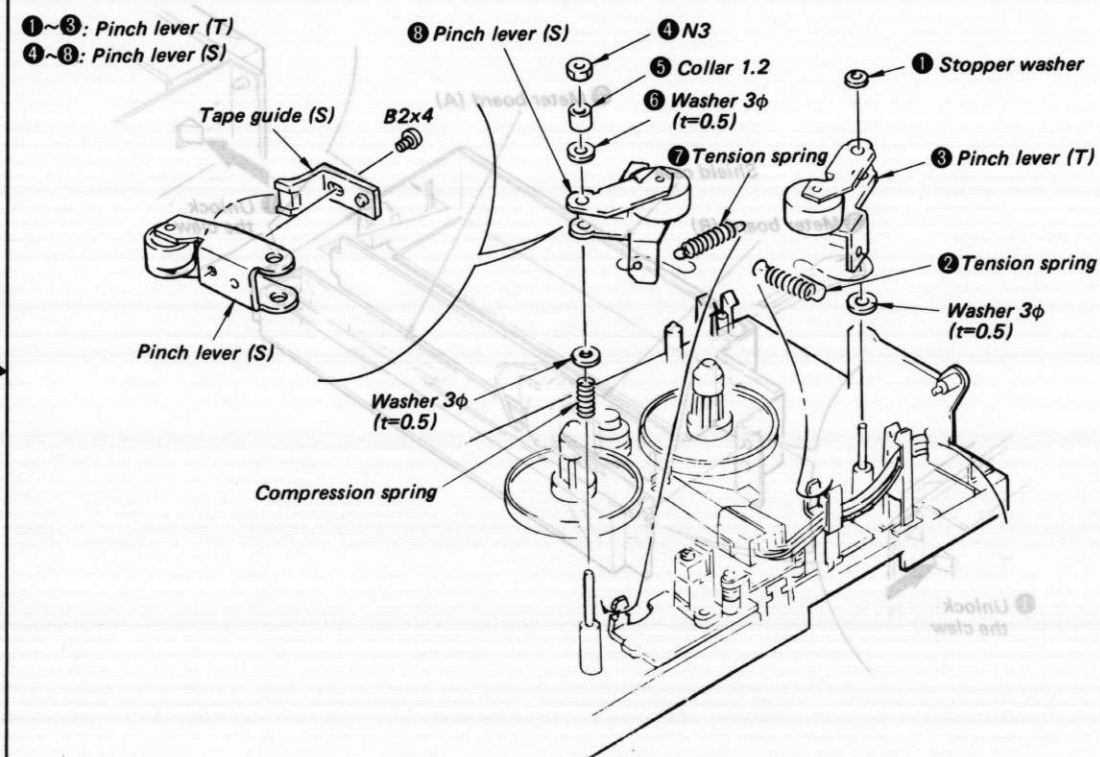
REEL TABLE



CASSETTE HOLDER



PINCH LEVER (T), (S)

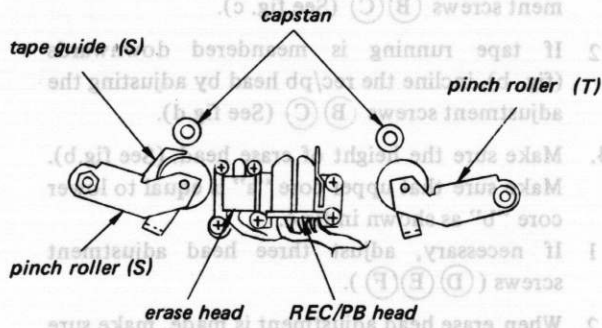


SECTION 3 ADJUSTMENTS

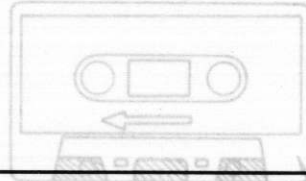
3-1 MECHANICAL ADJUSTMENTS

PRECAUTION

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

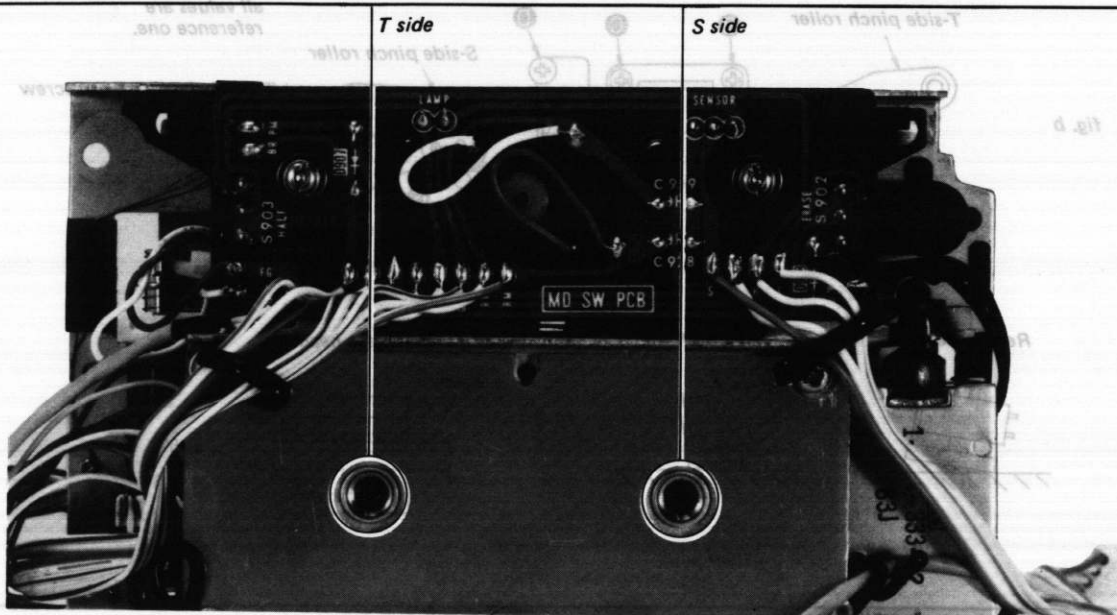
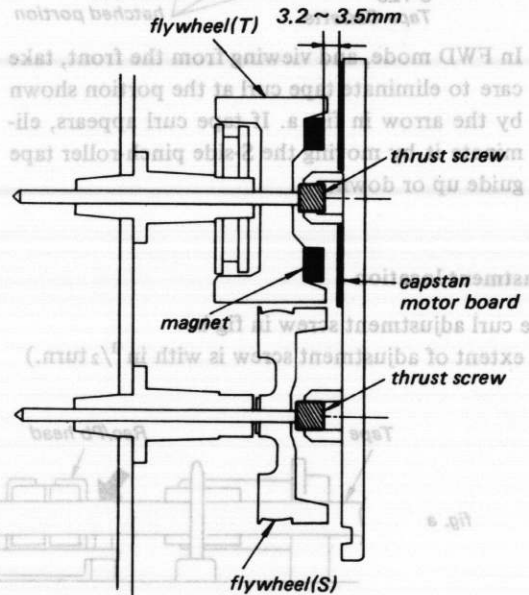


2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



Flywheel Thrust Adjustment

1. T-side flywheel thrust adjustment.
 Turn the thrust screw until the clearance between the flywheel (T) and capstan motor board is 3.2 – 3.5mm.
2. S-side flywheel thrust adjustment
 Lightly tighten the thrust screw clockwise until there is no play on the flywheel (S). Then loosen the thrust screw $1/2 - 3/4$ turns from that position.
3. After the adjustment, lock the screws with locking compound.

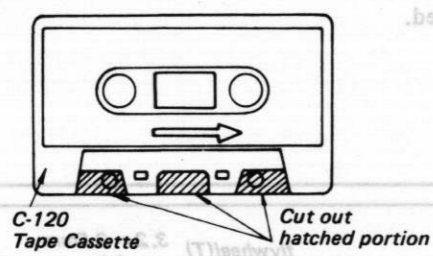


SECTION 3
 ADJUSTMENTS

Head Height Adjustment Procedure:

Prepare head height adjustment jig. If it is not obtained, perform the following procedures, Insert mirror tape cassette or the adjustment tape cassette illustrated below. Adjust three screws ((a) - (b)) so that tape is correctly passed in rec/pb head tape guide when head base plate is pushed by hand.

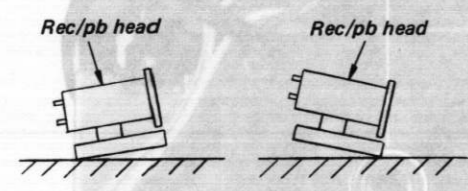
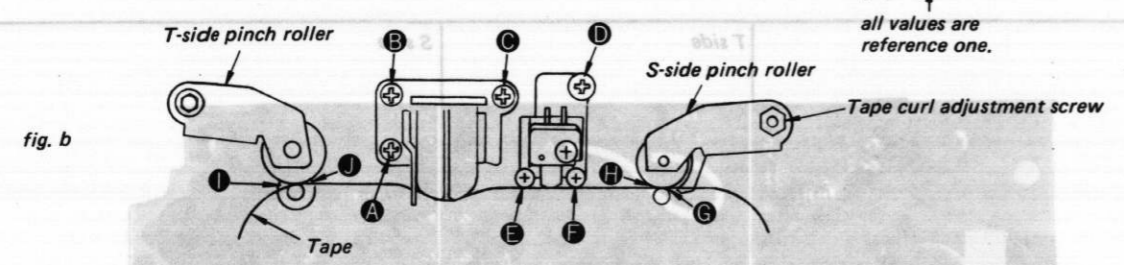
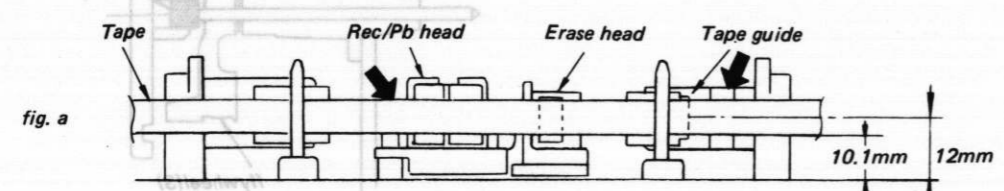
1. Prepare a mirror cassette or an adjustment cassette as shown below.



2. In FWD mode, and viewing from the front, take care to eliminate tape curl at the portion shown by the arrow in fig. a. If tape curl appears, eliminate it by moving the S-side pinch-roller tape guide up or down.

Adjustment location

Tape curl adjustment screw in fig-b.
 (An extent of adjustment screw is with in 1/2 turn.)



3. Apply no back tension, and make sure that tape running is straight at positions shown by (G) (H) (I) (J)

1. If tape running is meandered upwards (fig.b), incline the rec/pb head by adjusting the adjustment screws (B) (C) (See fig. c).
2. If tape running is meandered downwards (fig. b), incline the rec/pb head by adjusting the adjustment screws (B) (C) (See fig.d).

4. Make sure the height of erase head. (See fig.b). Make sure that upper core "a" is equal to lower core "b" as shown in fig.e.
 1. If necessary, adjust three head adjustment screws (D) (E) (F).
 2. When erase head adjustment is made, make sure that head zenith adjustment is correct. If necessary, adjust head zenith adjustment screw (D).

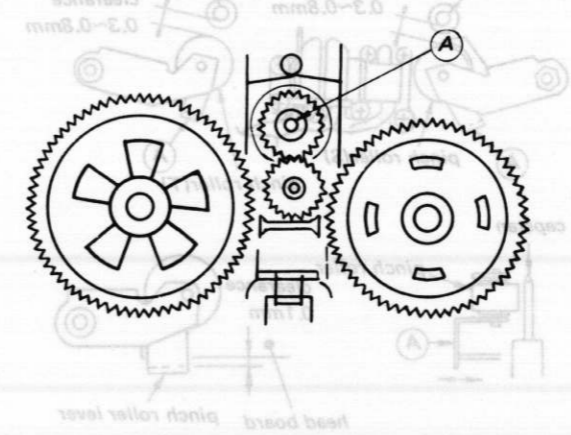
1. Turn the thrust screw until the clearance between the flywheel (T) and capstan motor board is 3.2 - 3.2mm.

2. Slightly tighten the thrust screw clockwise until there is no play on the flywheel (S). Then loosen the thrust screw 1/2 - 1/4 turns from that position.

3. After the adjustment, lock the screws with locking compound.

Forward Torque Adjustment

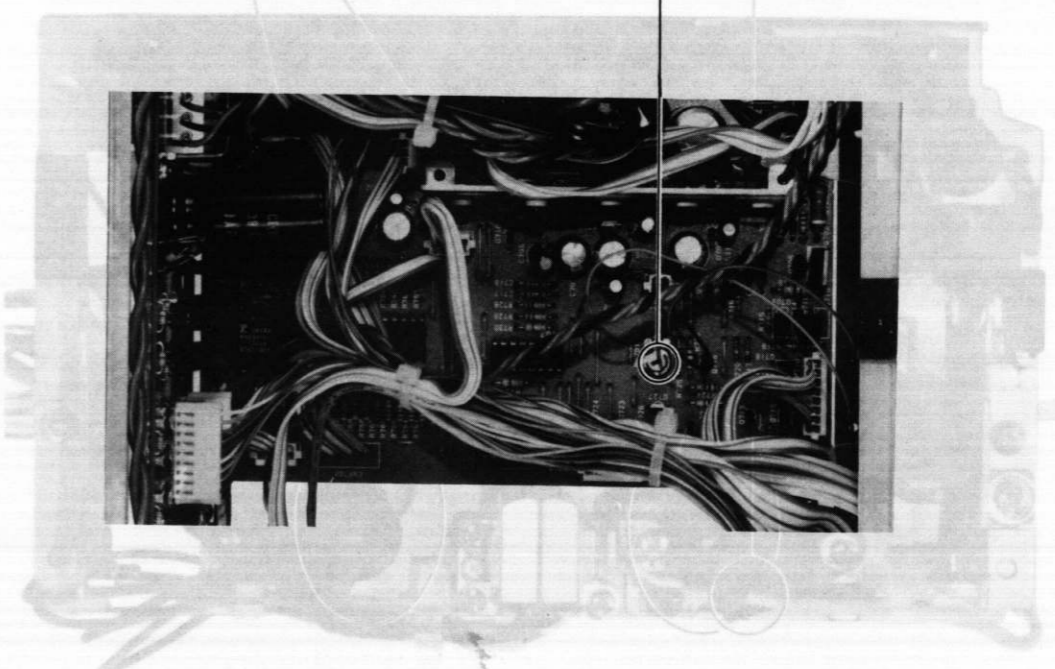
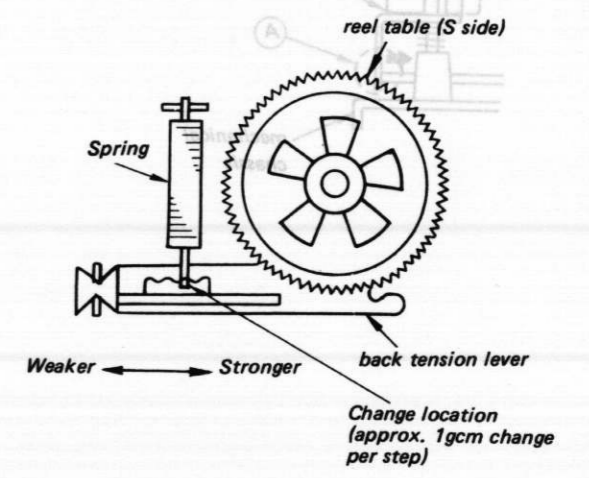
1. Remove the ornamental plate.
2. Press the cassette detection switch and T side reel table simultaneously by hand and then press the forward button. In this state, hold the T reel table so that it does not rotate.
3. Now adjust RV701 to the position where (A) begins to rotate. (It will shut off immediately, 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.

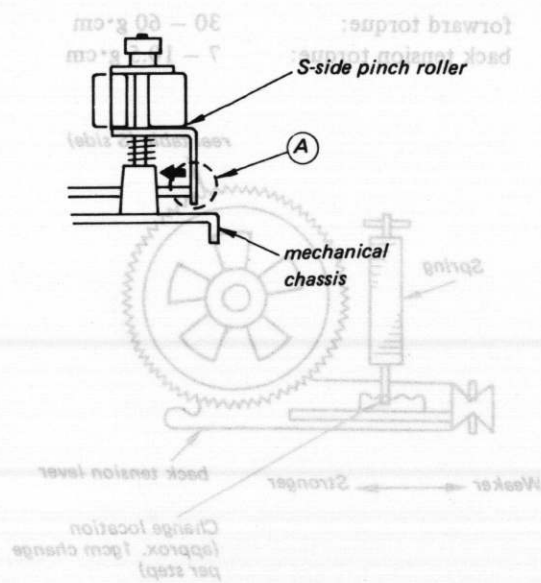
Specifications:

forward torque: 30 - 60 g·cm
 back tension torque: 7 - 10.5 g·cm



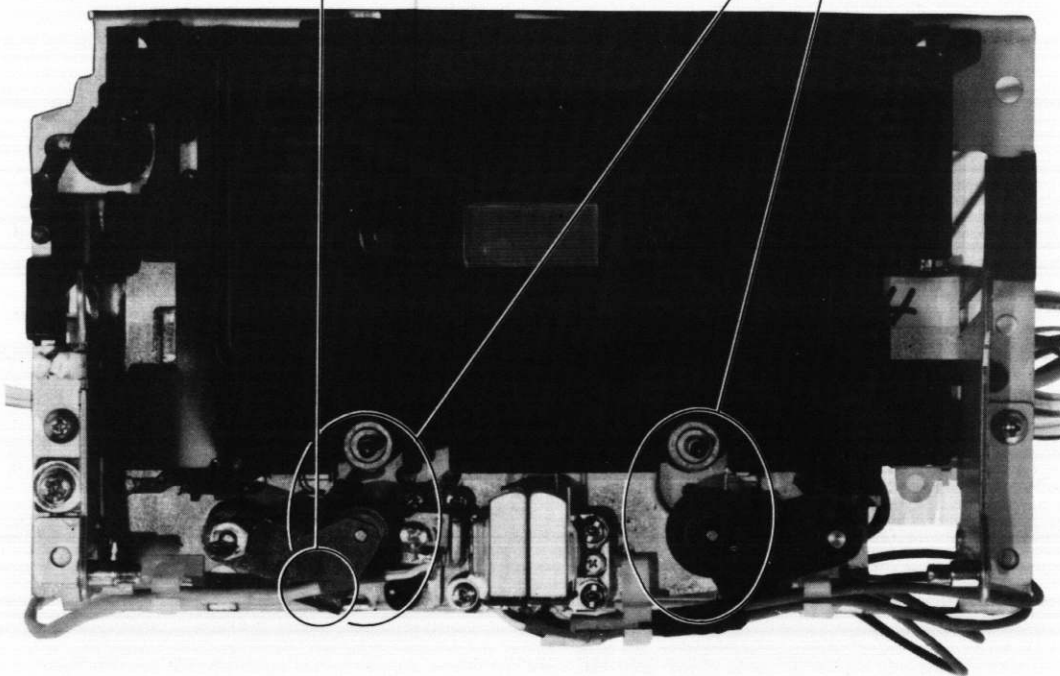
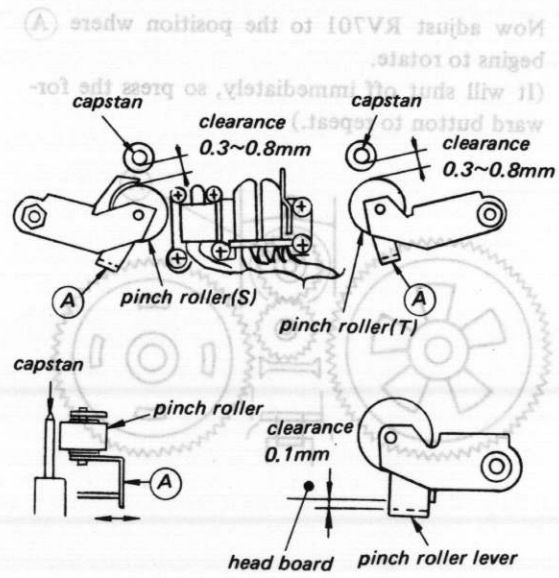
Pinch Roller Pressure Check

Slowly push the head base plate upward. Confirm that T-side pinch roller begins to rotate earlier than S-side pinch roller.

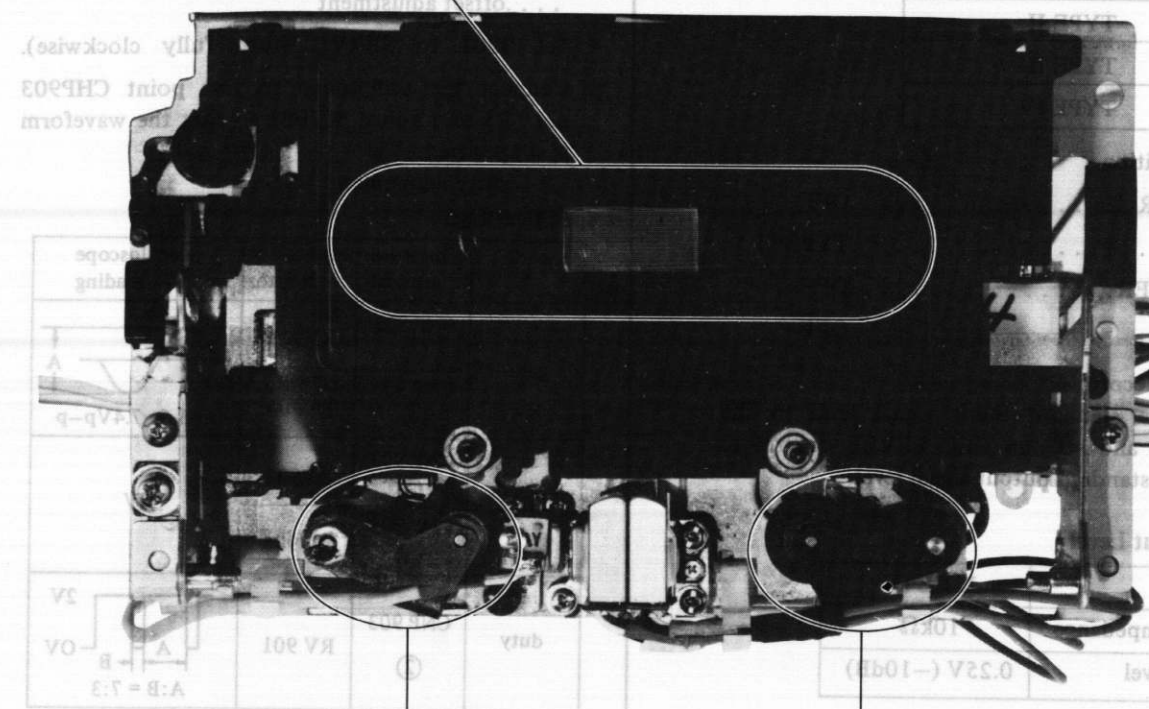


Pinch Roller Clearance Adjustment

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.



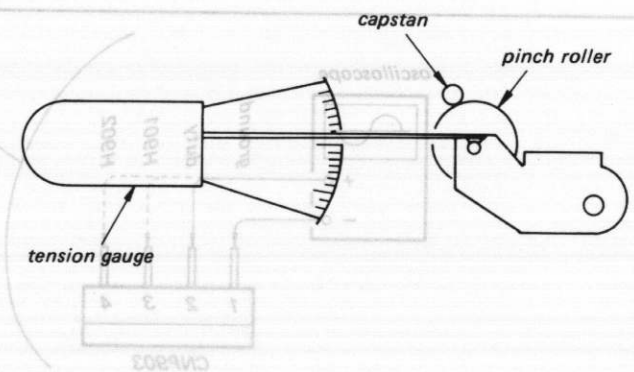
TORQUE	TORQUE METER	SPECIFICATION
FF, REW	CQ201B	60~120g·cm



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



3-2. ELECTRICAL ADJUSTMENTS

- The adjustments in the following sections are to be performed with the mechanism deck in the set.
 - 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 select switches according to the tape as follows.

tape	TAPE select switch
CS-15	TYPE I
CS-26	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

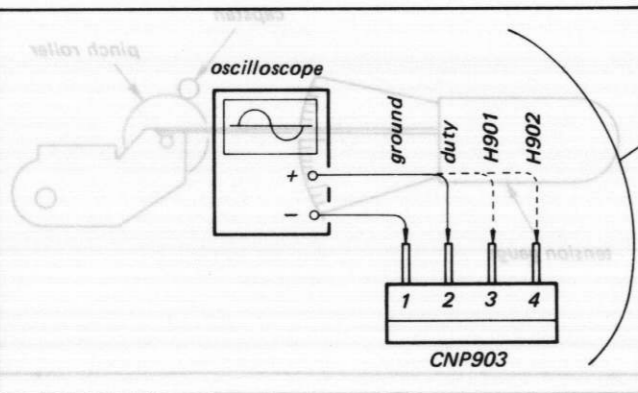
- Switch position
DOLBY NROFF
TAPETYPE 1
MPX FILTEROFF
TIMEROFF
- Standard Record:
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

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

Standard Output Level

	LINE OUT
load impedance	47kΩ
output level	0.44V (-5dB)



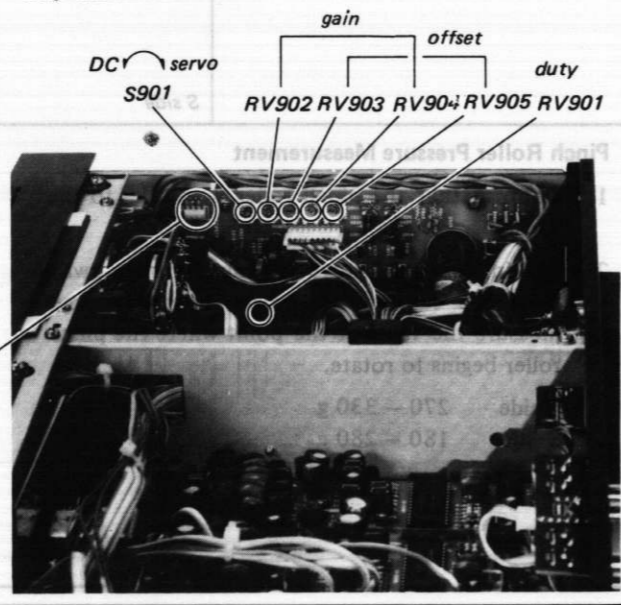
Capstan Motor Adjustment

- Procedure:
- Mode: stop
 - Set S901 to DC side (turn fully counterclockwise).
 - Connect the oscilloscope to test point CNP903 pin ③ (H901) and pin ④ (H902) and adjust RV902 (H901) and RV904 (H902) for the specified voltage values.
 - gain adjustment
 - Next adjust RV903 (H901) and RV905 (H902) for the specified voltage values.
 - offset adjustment
 - Set S901 to SERVO (turn fully clockwise).
 - Connect the oscilloscope to test point CHP903 pin ② and adjust RV901 so that the waveform is as specified.
 - duty adjustment

Specification:

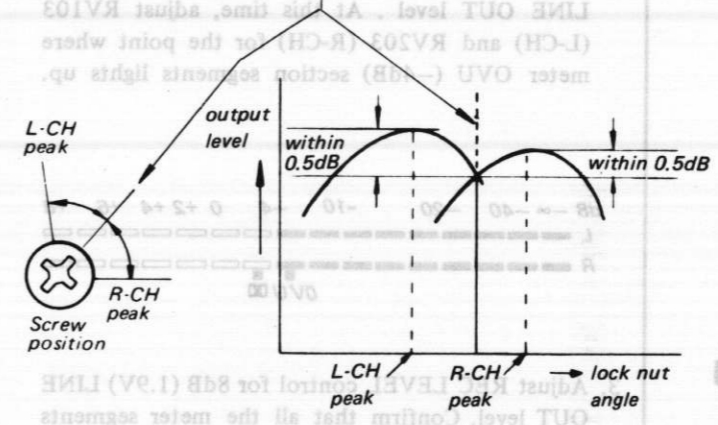
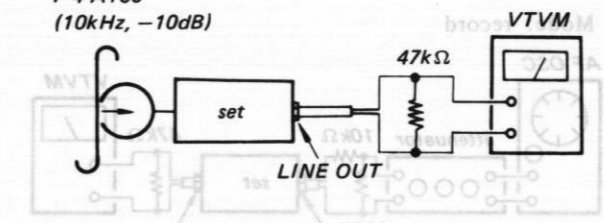
	measure terminal	adjustment resistor	oscilloscope reading
gain	CNP 903 ③	RV902	A A=6.6~7.4Vp-p
	CNP 903 ④	RV904	
offset	CNP 903 ③	RV903	OV
	CNP 903 ④	RV 905	
duty	CNP 903 ②	RV 901	2V OV A:B = 7:3

Adjustment location



Playback Head Azimuth Adjustment

- Procedure:
- Mode: playback
 - test tape P-4-A100 (10kHz, -10dB)
 - Adjust the lock nut so that L-CH and R-CH output is maximum. When the maximum points of L-CH and R-CH are not the same, adjust to the point where they match within 0.5dB of each channel's maximum output value.

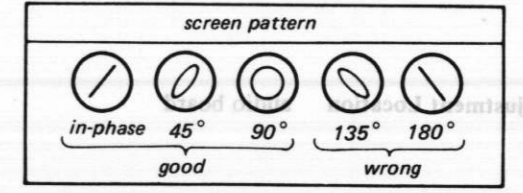
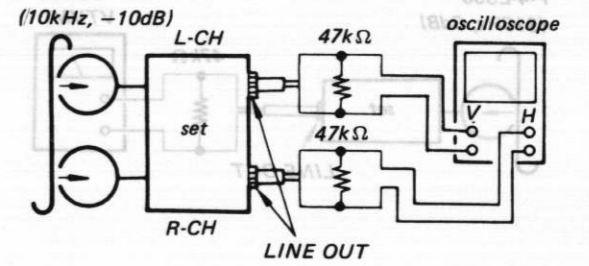


Adjustment Location:



3. Phase Check

- Mode: playback
- test tape P-4-A100 (10kHz, -10dB)
 - Adjust RV101 (L-CH) and RV201 (R-CH) so that L-CH and R-CH phase difference is between in-phase and 90°.



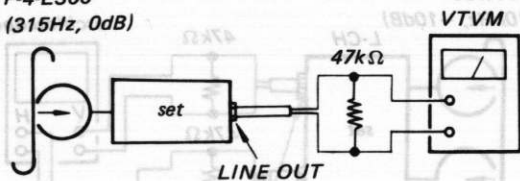
TC-K555ES II

Playback Level Adjustment

Procedure:

1. Mode: playback

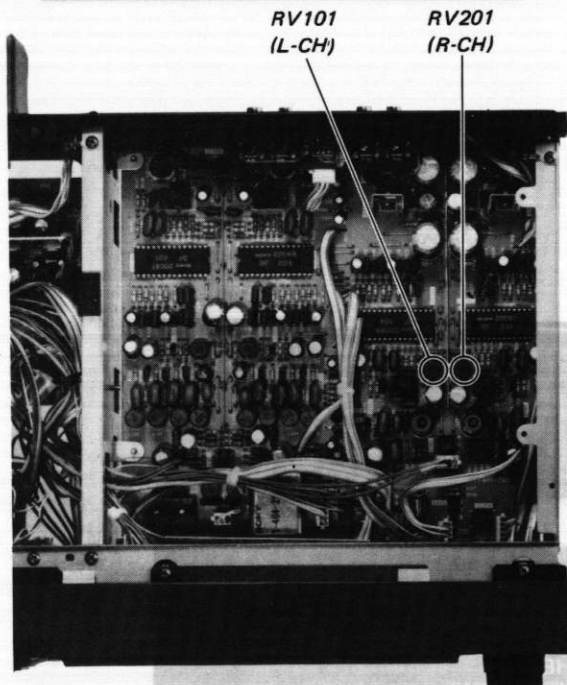
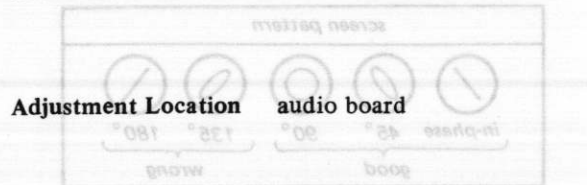
test tape
P-4-L300
(315Hz, 0dB)



2. Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Specification: LINE OUT level: 0.42 – 0.46V
(-5.5 to -4.5dB)

Level difference between channels: less than 0.5dB



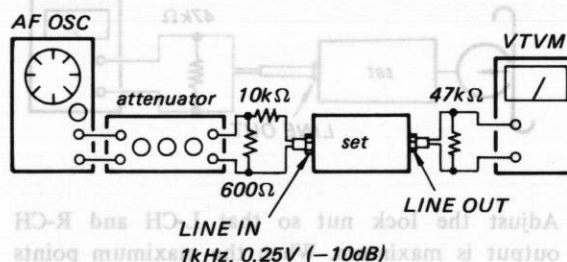
Meter Level Adjustment

Setting:

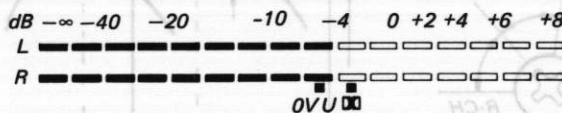
MONITOR switch: SOURCE

Procedure:

1. Mode: record

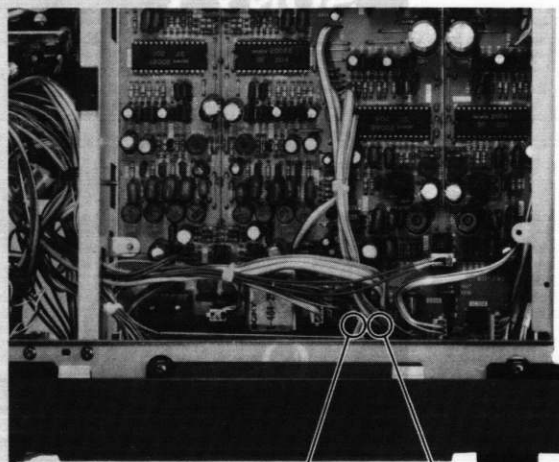


2. Adjust the REC LEVEL control for -5dB (0.44V) LINE OUT level. At this time, adjust RV103 (L-CH) and RV203 (R-CH) for the point where meter OVU (-4dB) section segments lights up.



3. Adjust REC LEVEL control for 8dB (1.9V) LINE OUT level. Confirm that all the meter segments light up at this time.

Adjustment Location: audio board



RV103 (L-CH) RV203 (R-CH)

Record Head Azimuth Main Adjustment

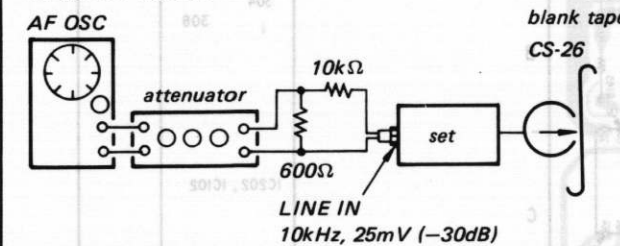
Setting:

REC LEVEL control: standard record
(See page 18.)

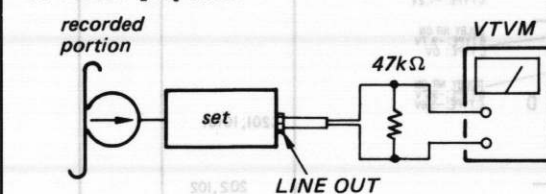
Procedure:

1. Turn CP301 fully clockwise, and 1/2 - 1 turn counterclockwise.

2. Mode: record

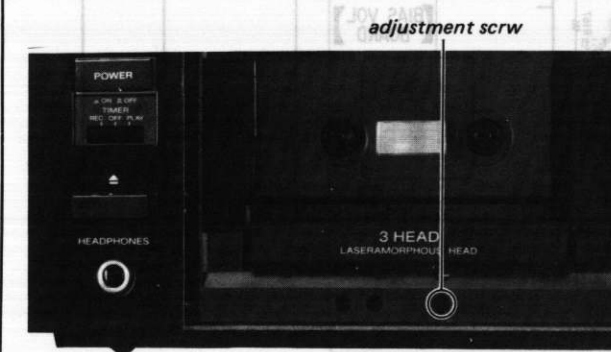
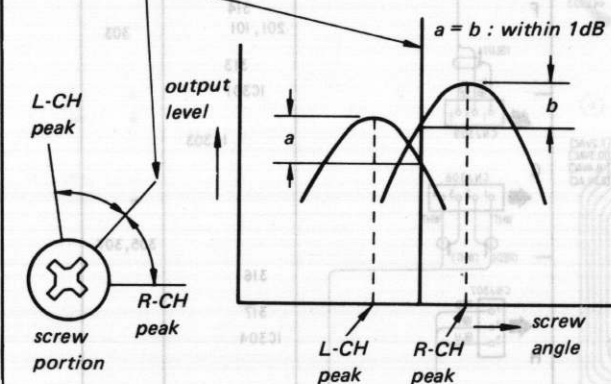


3. Mode: playback



4. Adjust the screw for maximum L-CH, R-CH output.

5. When L-CH and R-CH output maximum values are not the same, adjust the screw so that they match, within 1dB level down from the maximum value.



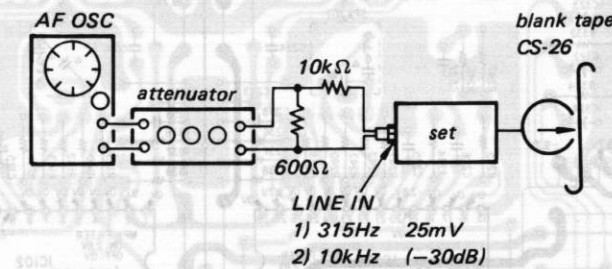
Record Bias Adjustment

Setting:

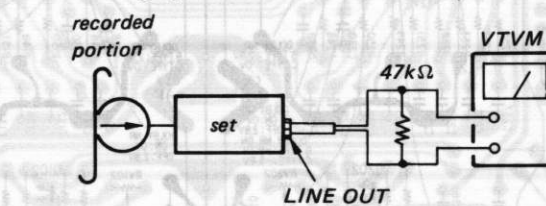
REC LEVEL control: standard record
(See page 18.)

Procedure:

1. Mode: record

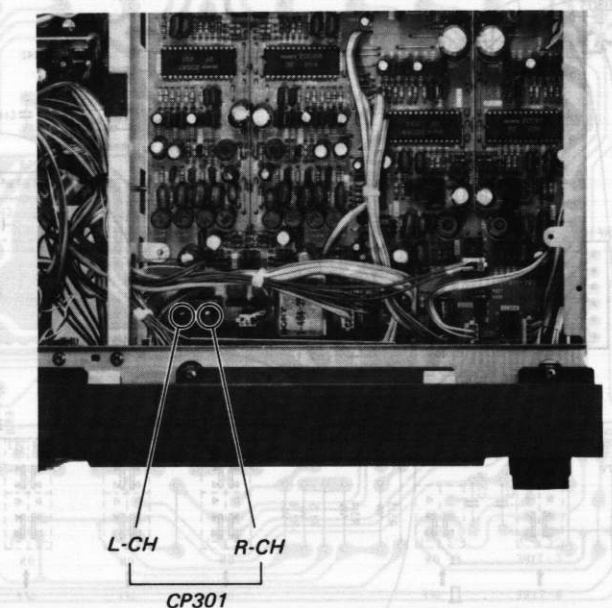


2. Mode: playback



3. Adjust CP301 (L-CH and R-CH) so that the LINE OUT level of 10kHz signal is 0 ± 0.5dB relative to that of 315Hz.

Adjustment Location: audio board



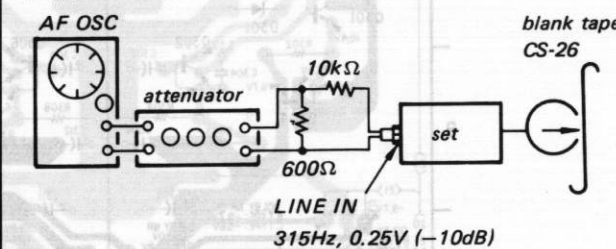
Record Level Adjustment

Setting:

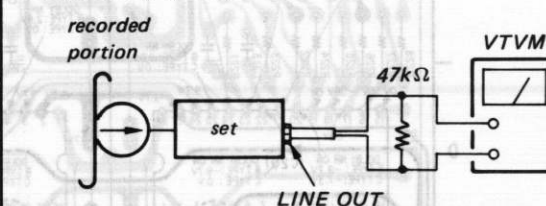
REC LEVEL control: standard record
(See page 18.)

Procedure:

1. Mode: record



2. Mode: playback

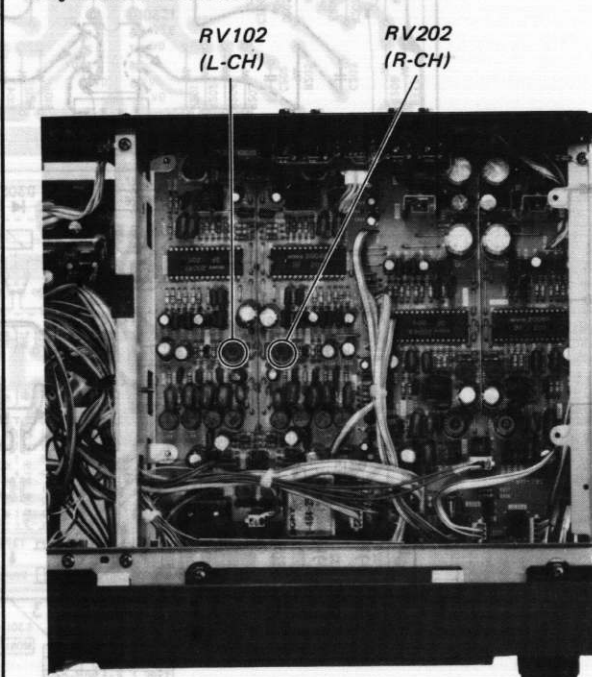


3. Adjust RV102 (L-CH) and RV202 (R-CH) to obtain the specified LINE OUT level.

Specification:

LINE OUT level: 0.42 - 0.46V
(-5.5 to -4.5dB)

Adjustment Location: audio board



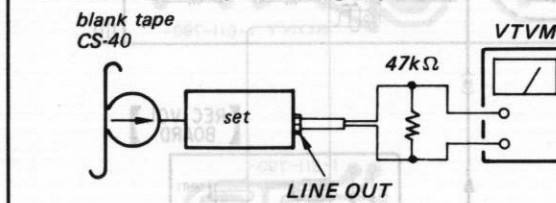
Bias Trap Adjustment

Setting:

Tape select switch: TYPE IV
REC LEVEL knob: Standard recording position (See page 18.)

Procedure:

1. Record mode (with no signal)



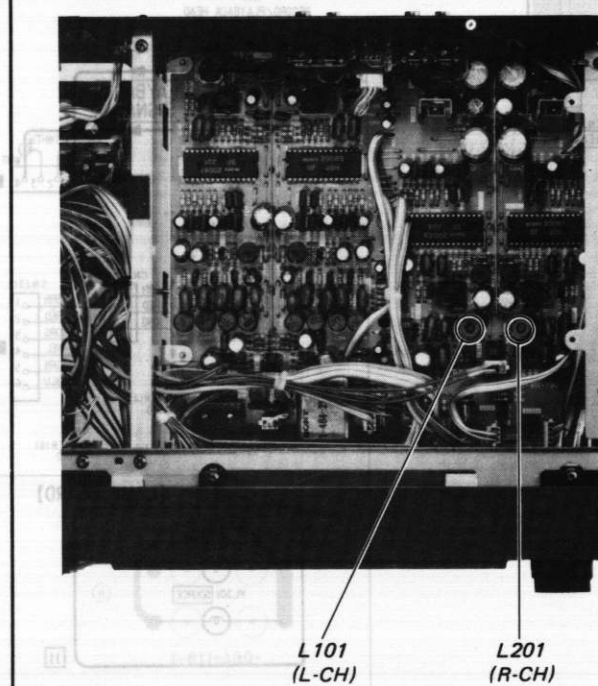
2. Set the monitor switch to TAPE.

Adjust L101(L-CH) and L201(R-CH) so that VTVM reads minimum. The specification should be less than 4.4mV (-45dB).

3. Set the monitor switch to SOURCE.

Make sure that VTVM reads less than 0.44mV (-65dB).

Adjustment location: audio board



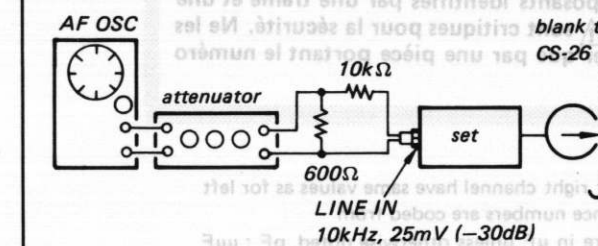
Record Head Azimuth Temporary Adjustment

Setting:

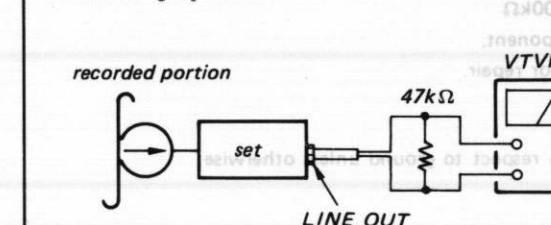
REC LEVEL control: standard record
(See page 18.)

Procedure:

1. Mode: record

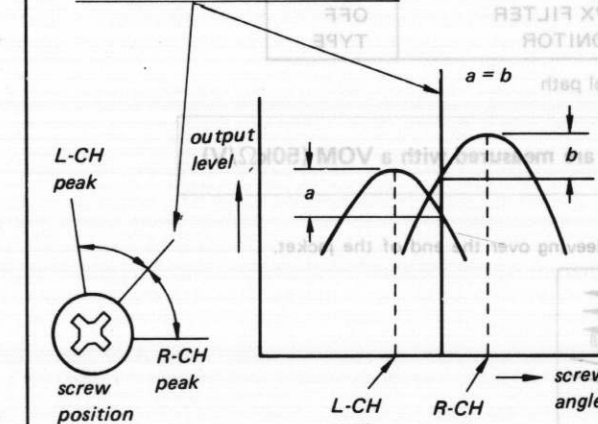


2. Mode: playback



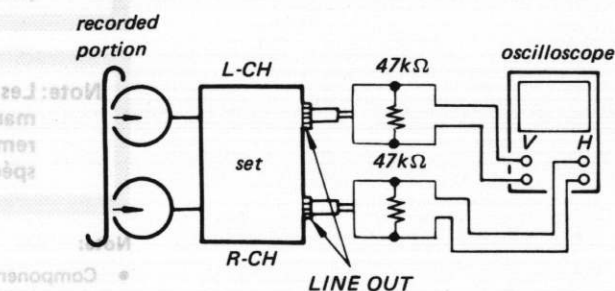
3. Adjust the screw for maximum L-CH, R-CH output.

4. When the maximum points of L-CH and R-CH output are not the same, adjust the screw so that they match, and so that the level down amount is the same for both channels.

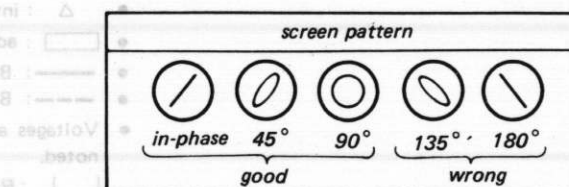


5. Phase Check

Mode: playback

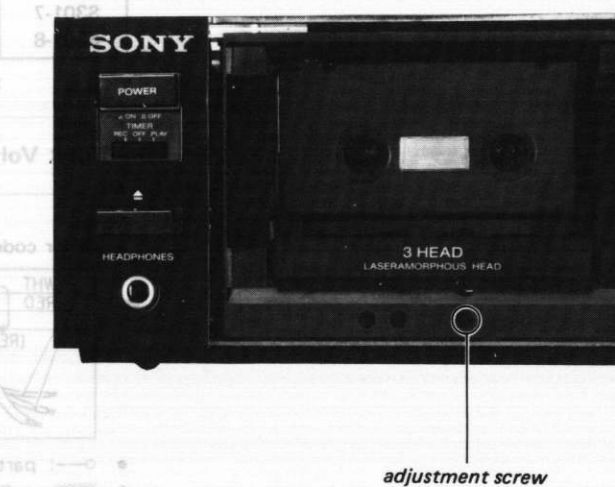


6. Confirm that L-CH and R-CH phase difference is between in-phase and 90°.



7. Repeat record bias adjustment. (See page 21)

Adjustment Location:



SECTION 4
DIAGRAMS

4-1 MOUNTING DIAGRAM -Audio Section-

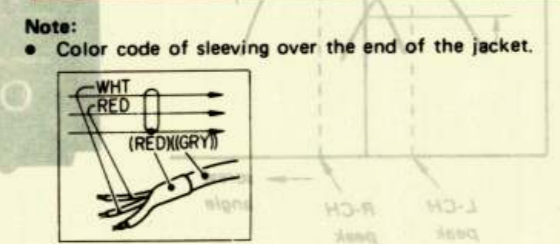
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

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.

- Note:
- Components for right channel have same values as for left channel. Reference numbers are coded from
 - All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}W$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
 - Δ : internal component.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - [] : REC
 - AC voltage readings in the bias oscillator with a VTVM.
 - Switch

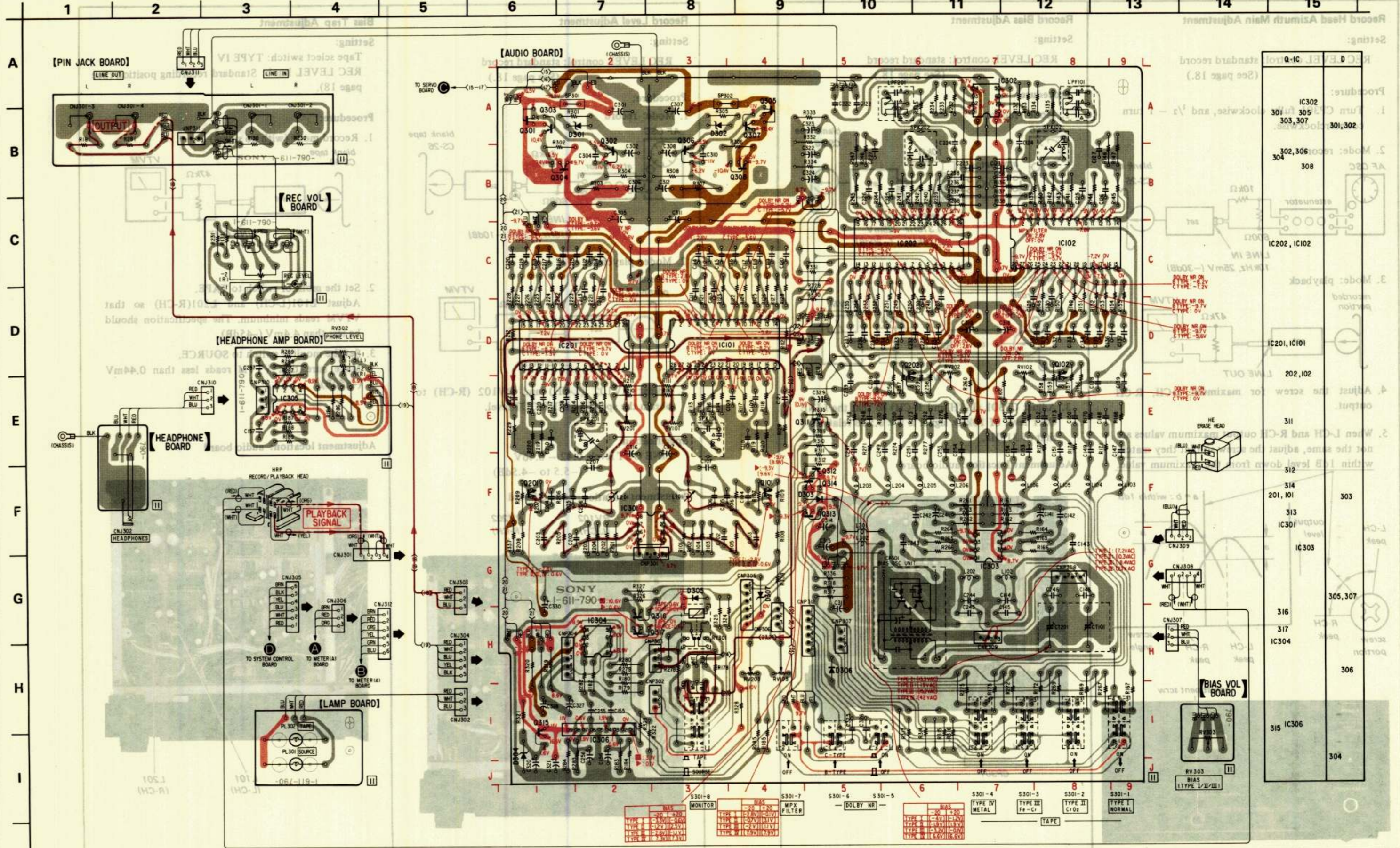
Ref. No.	Switch	Position
S301-1	TYPE I/NORMAL	ON
S301-2	TYPE II/CrO ₂	OFF
S301-3	TYPE III/Fe-Cr	OFF
S301-4	TYPE IV/METAL	OFF
S301-5	DOLBY NR-ON/OFF	OFF
S301-6	DOLBY NR-B-TYPE	B-TYPE
S301-7	MPX FILTER	OFF
S301-8	MONITOR	TYPE

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



- : parts extracted from the component side.
- : B+ pattern
- : B- pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

• See page 39 for Semi conductor lead layout.

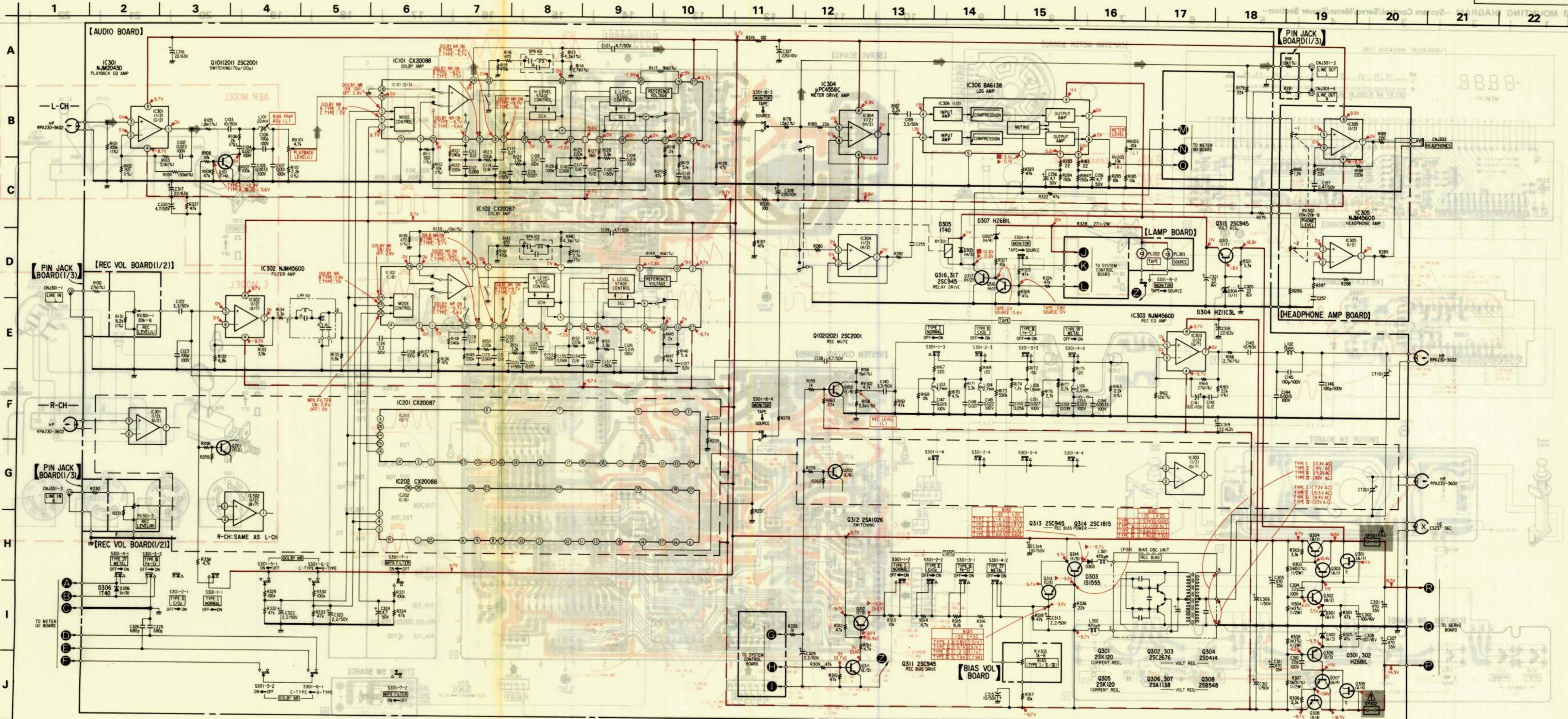


Q-IC	D
IC302	301, 302
301, 305, 303, 307	301, 302
302, 306, 304	308
IC202, IC102	
IC201, IC101	
202, 102	
311	
312	
314	303
201, 101	
313	IC303
IC303	
305, 307	
316	
317	IC304
IC304	
306	
315	IC306
IC306	
304	

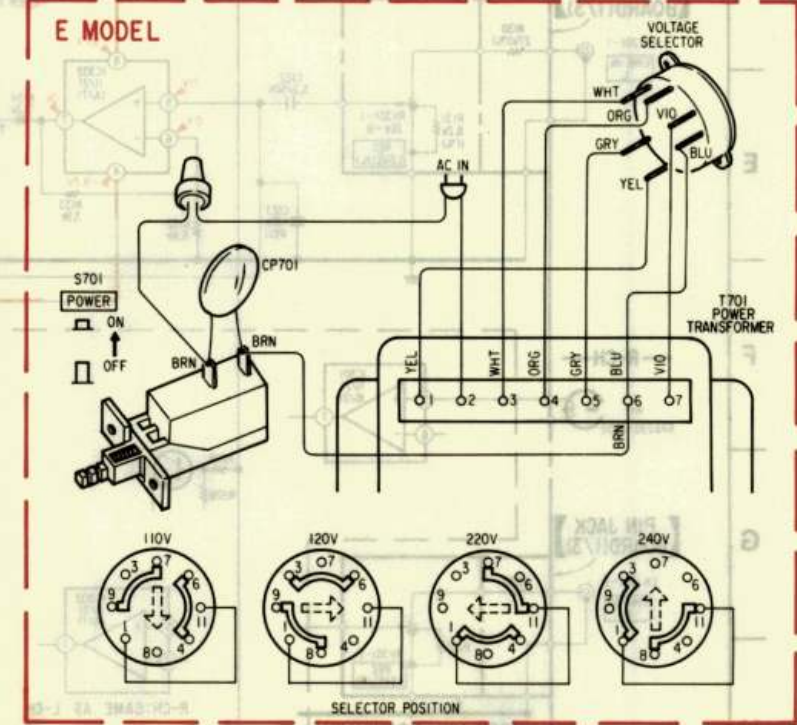
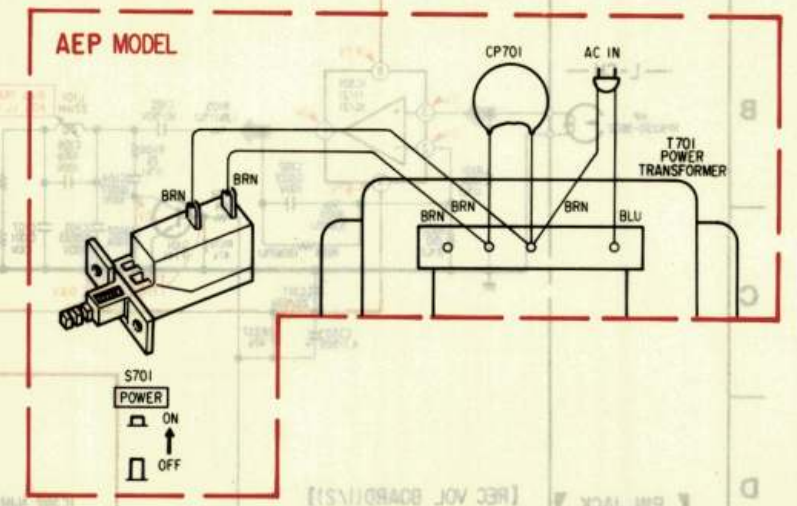
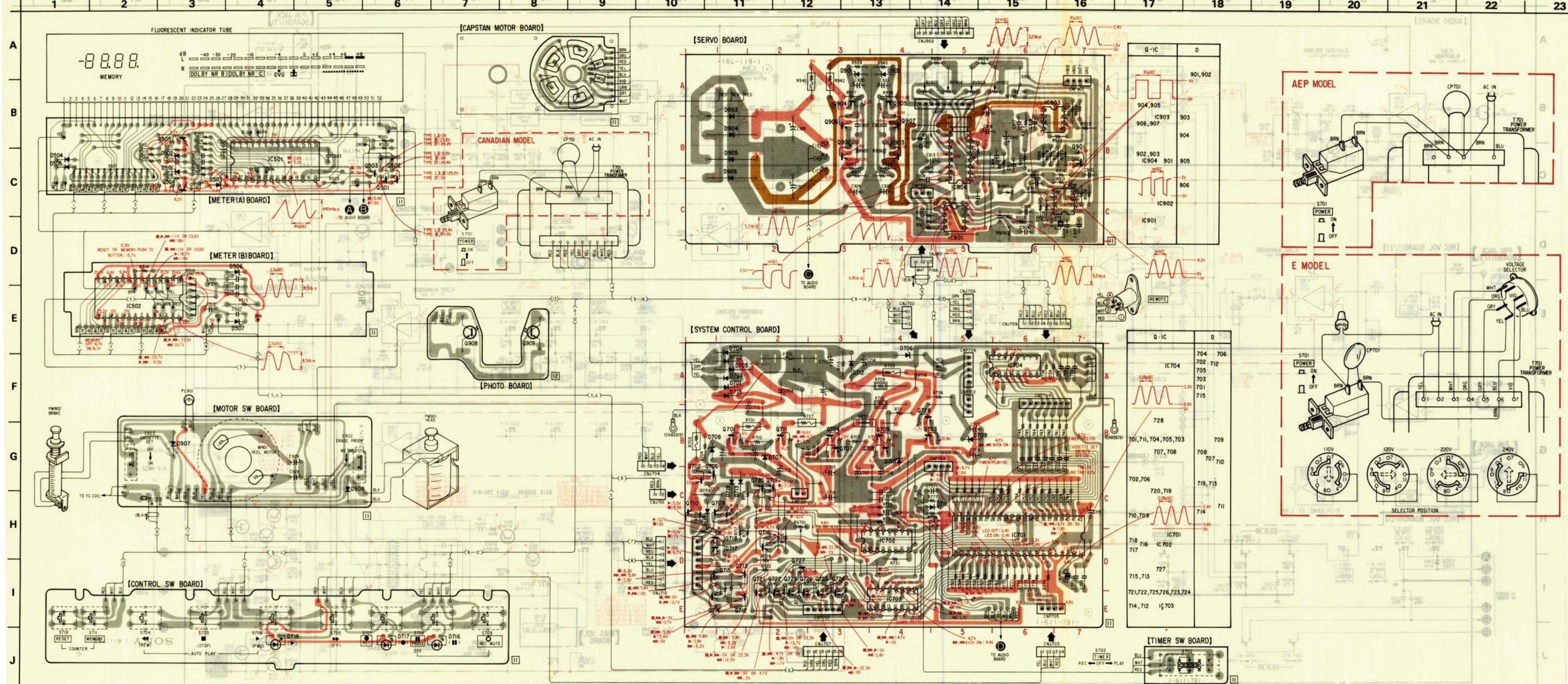
TC-K555ES II TC-K555ES II

TC-K555ES II

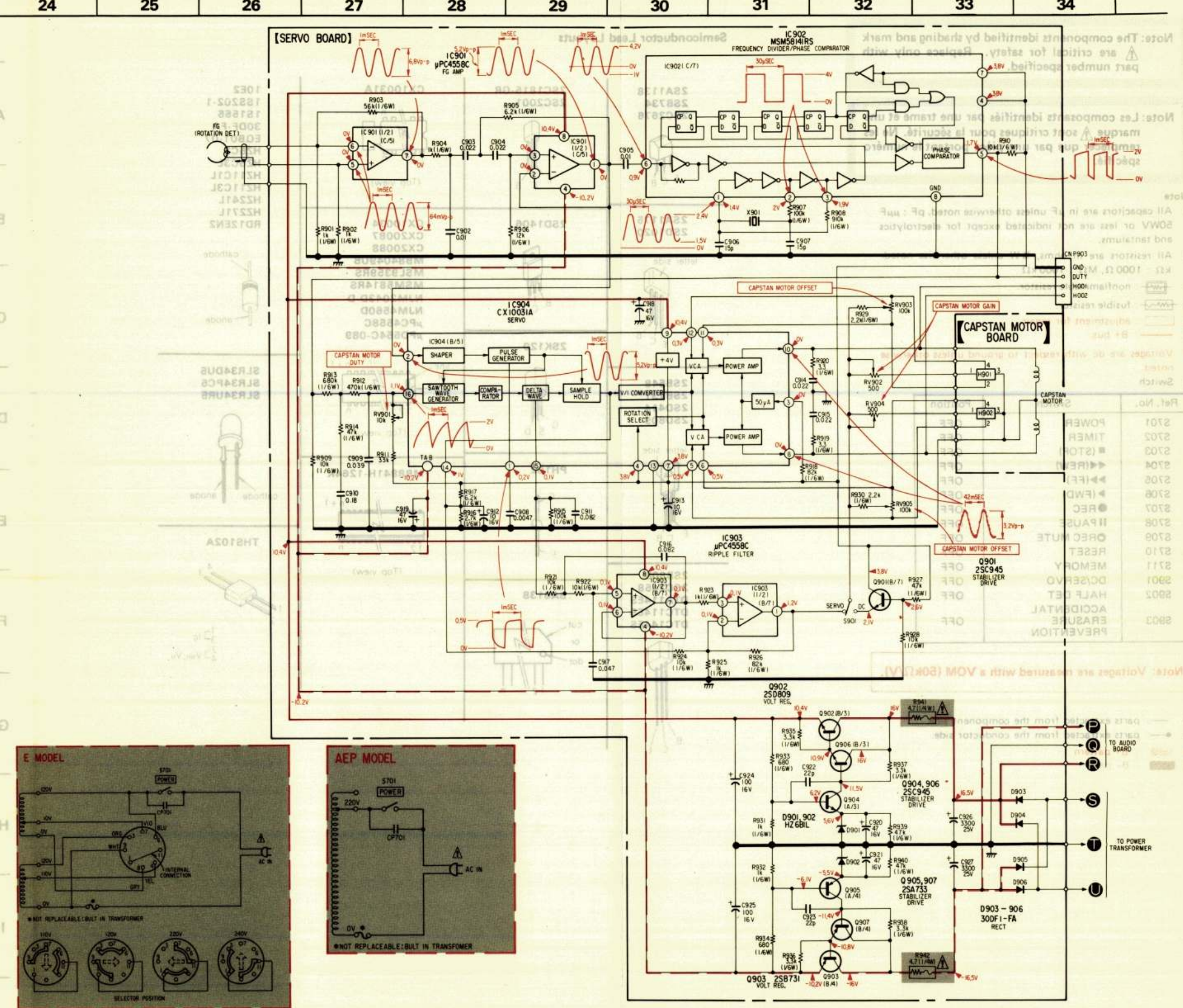
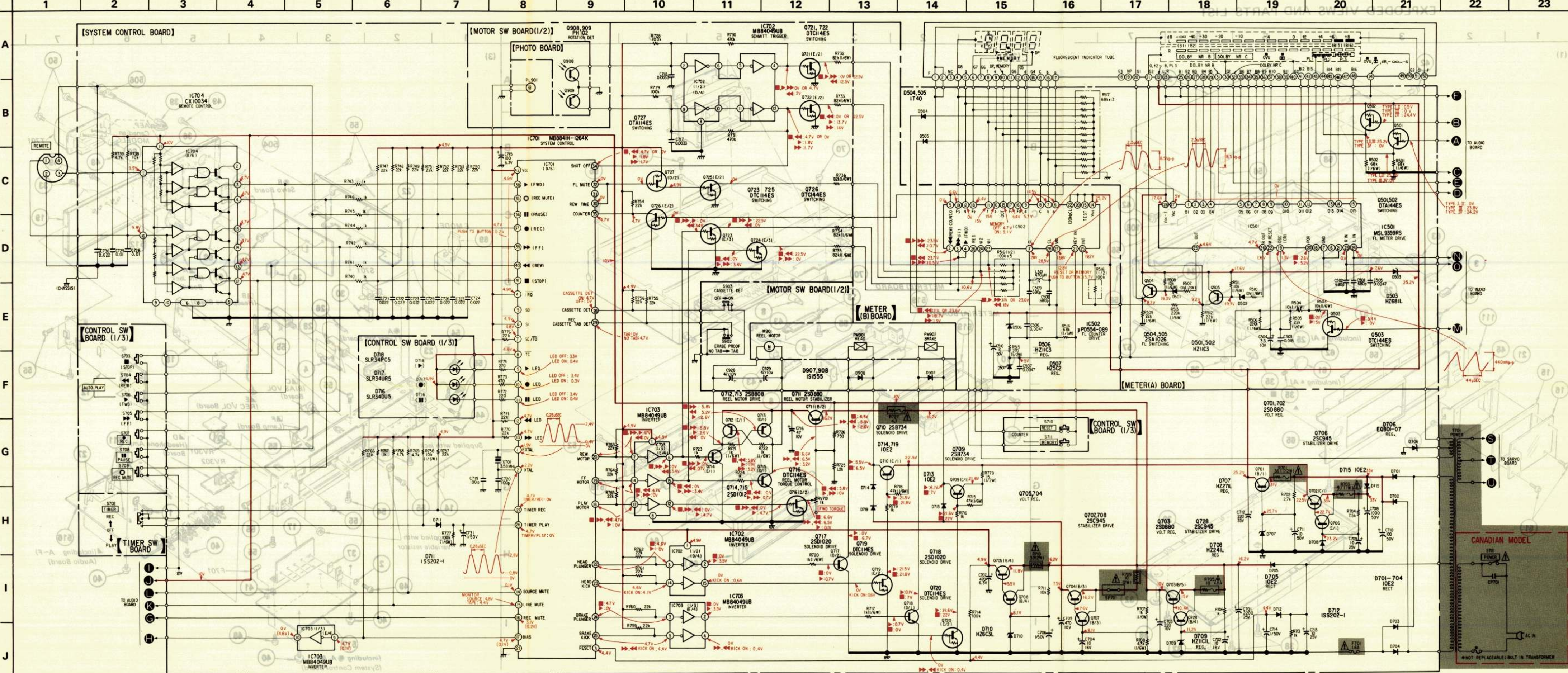
4-2 SCHEMATIC DIAGRAM -Audio Section-



4-3 MOUNTING DIAGRAM - System Control/Servo/Meter/Power Section-



4-4 SCHEMATIC DIAGRAM - System Control/Servo/Meter/Power Section-



SECTION 5
EXPLODED VIEWS AND PARTS LIST

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

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

- Note
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
 - \square : nonflammable resistor.
 - \square : fusible resistor.
 - \square : adjustment for repair.
 - \square : B+ bus.
 - Voltagages are dc with respect to ground unless otherwise noted.
 - Switch

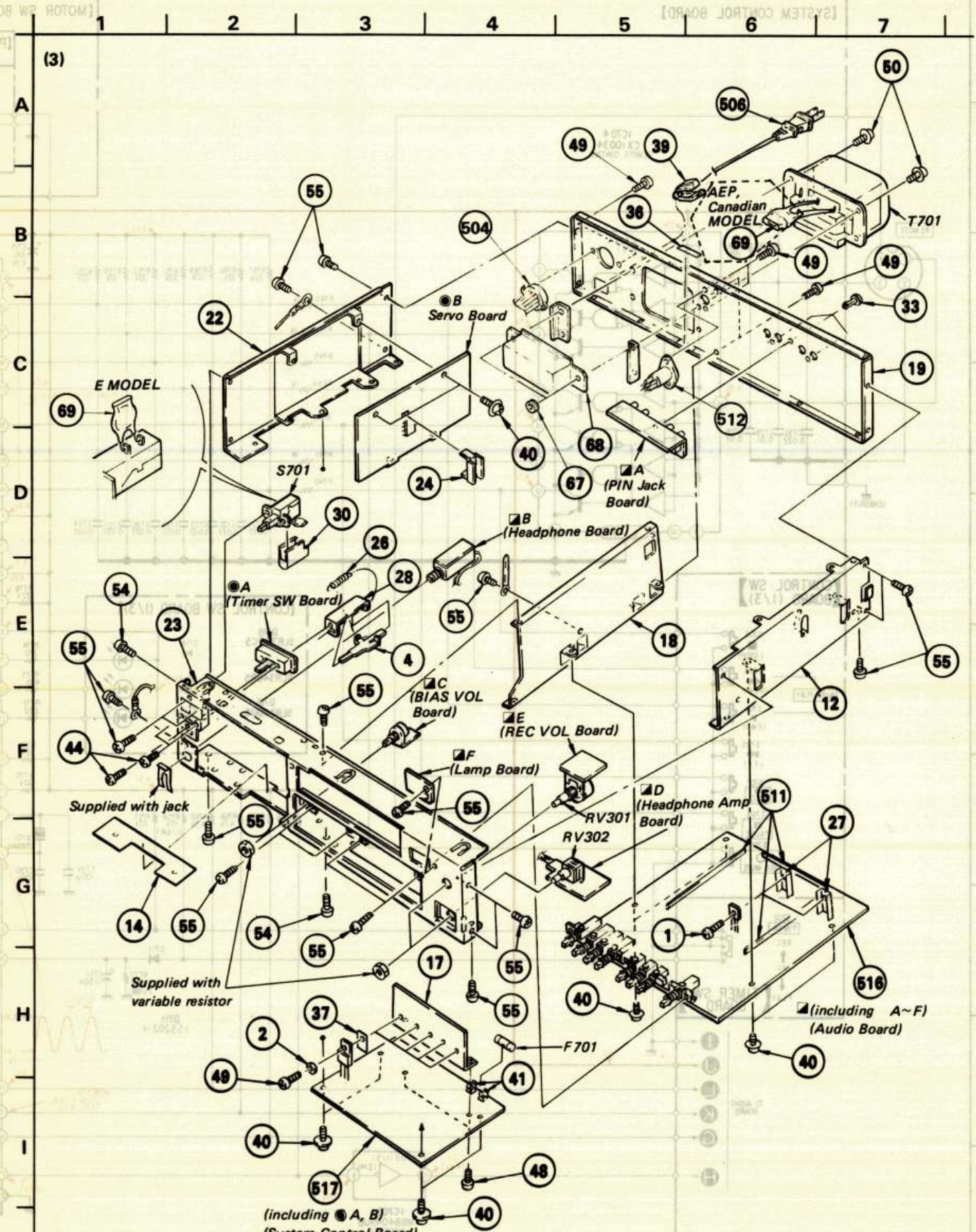
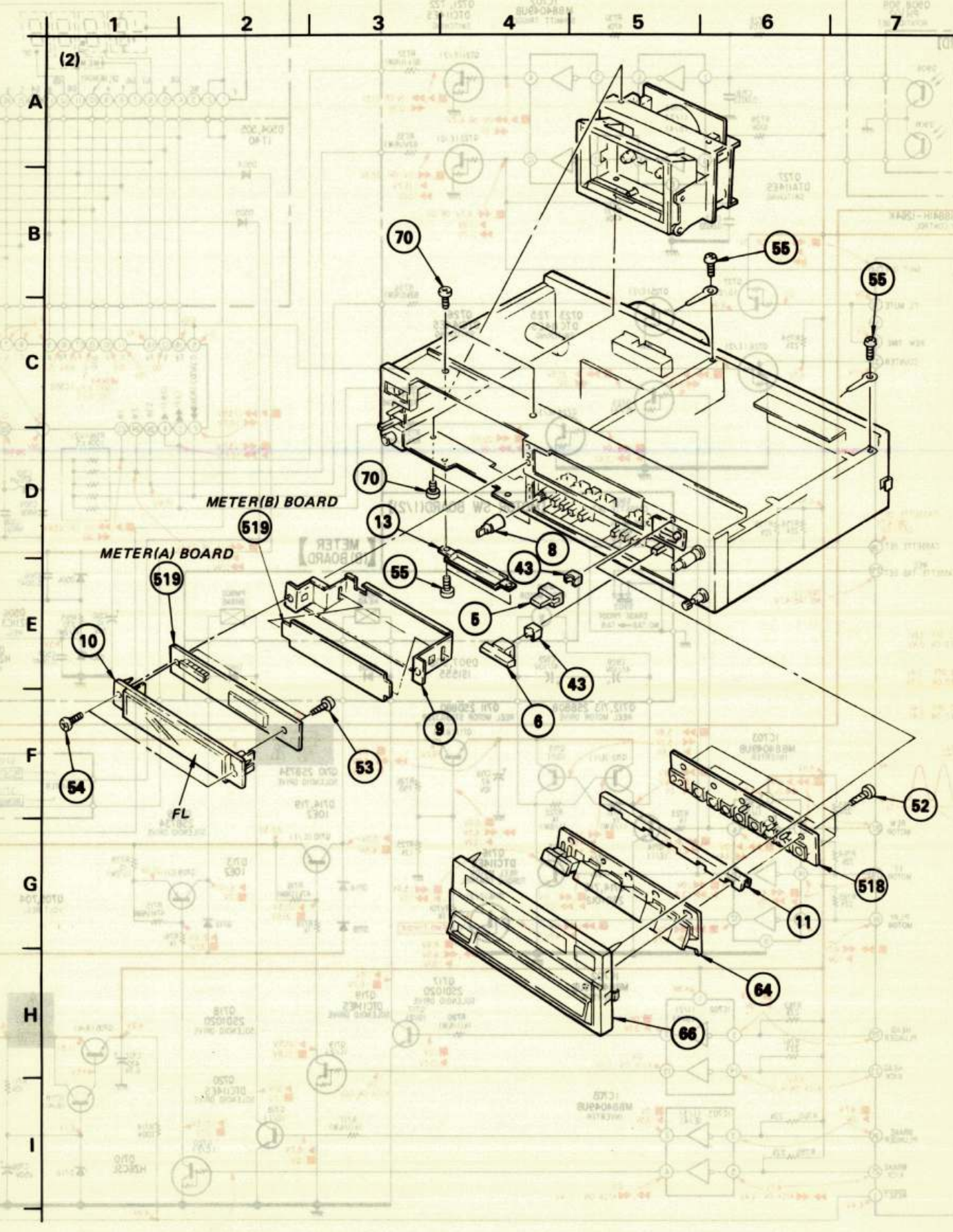
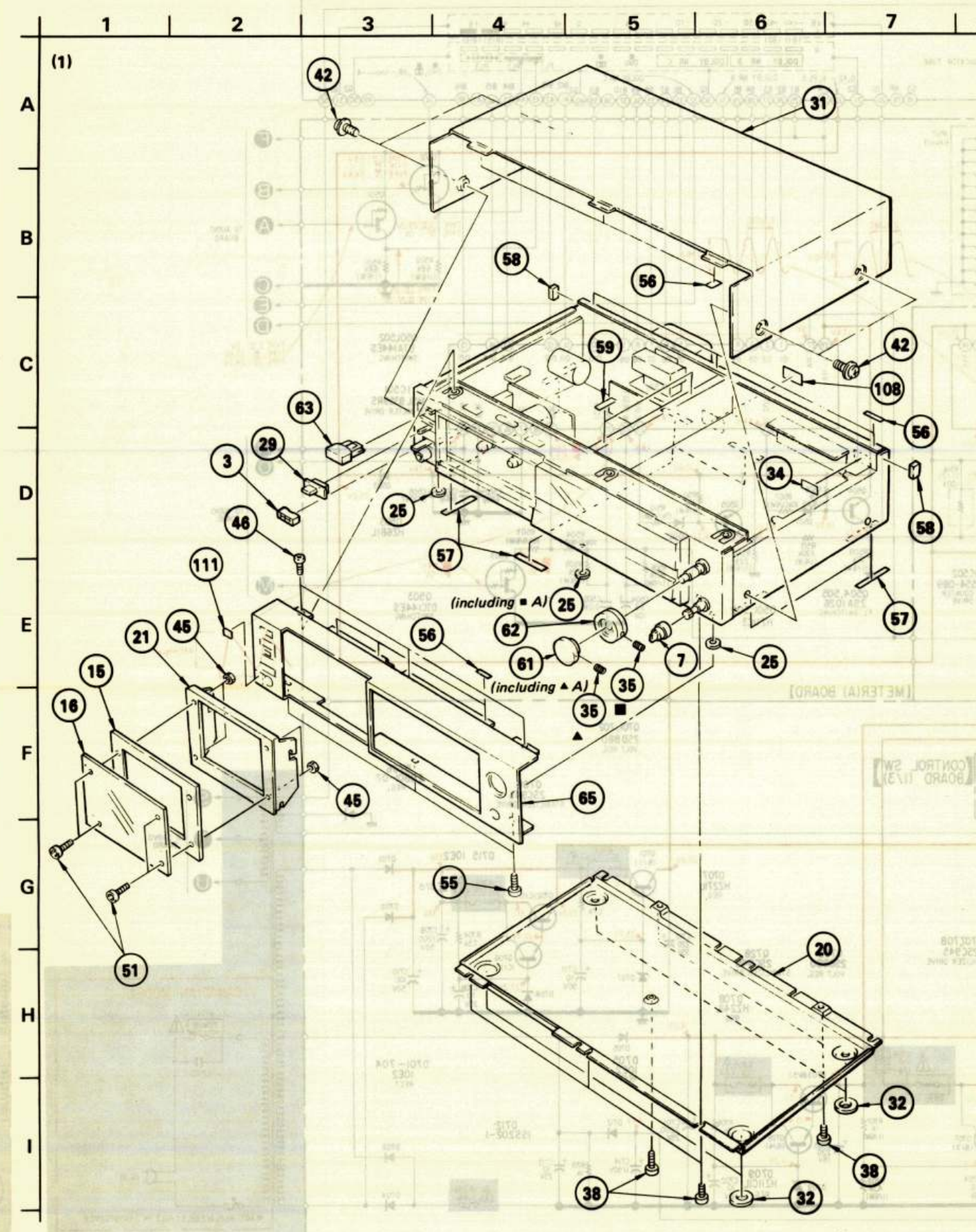
Ref. No.	Switch	Position
S701	POWER	OFF
S702	TIMER	OFF
S703	■ (STOP)	OFF
S704	◀ (REW)	OFF
S705	▶ (FF)	OFF
S706	▶▶ (FWD)	OFF
S707	● REC	OFF
S708	|| PAUSE	OFF
S709	○ REC MUTE	OFF
S710	RESET	OFF
S711	MEMORY	OFF
S901	DC/SERVO	OFF
S902	HALF DET	OFF
S903	ACCIDENTAL ERASURE PREVENTION	OFF

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

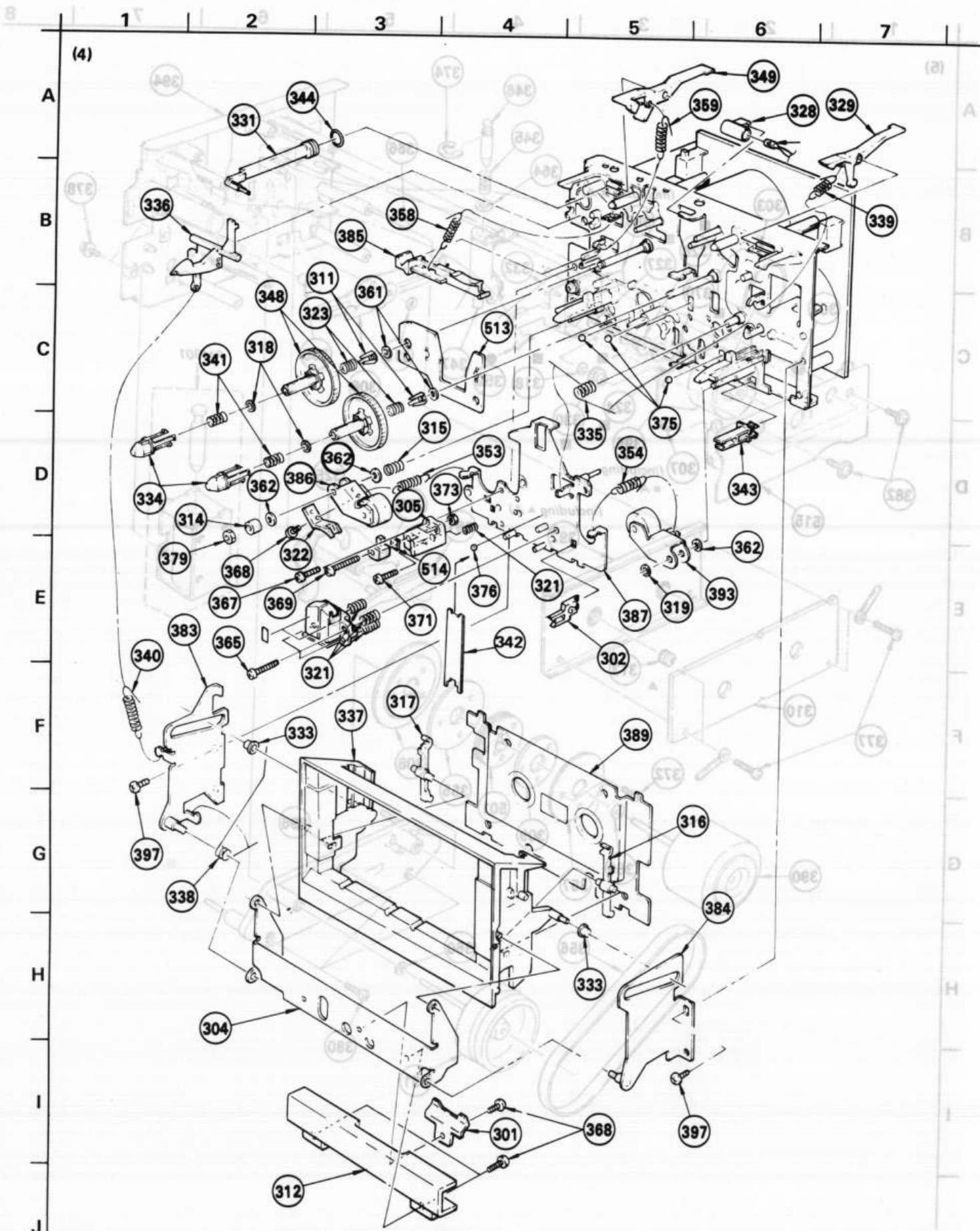
- parts extracted from the component side.
- parts extracted from the conductor side.
- B+ pattern
- B- pattern

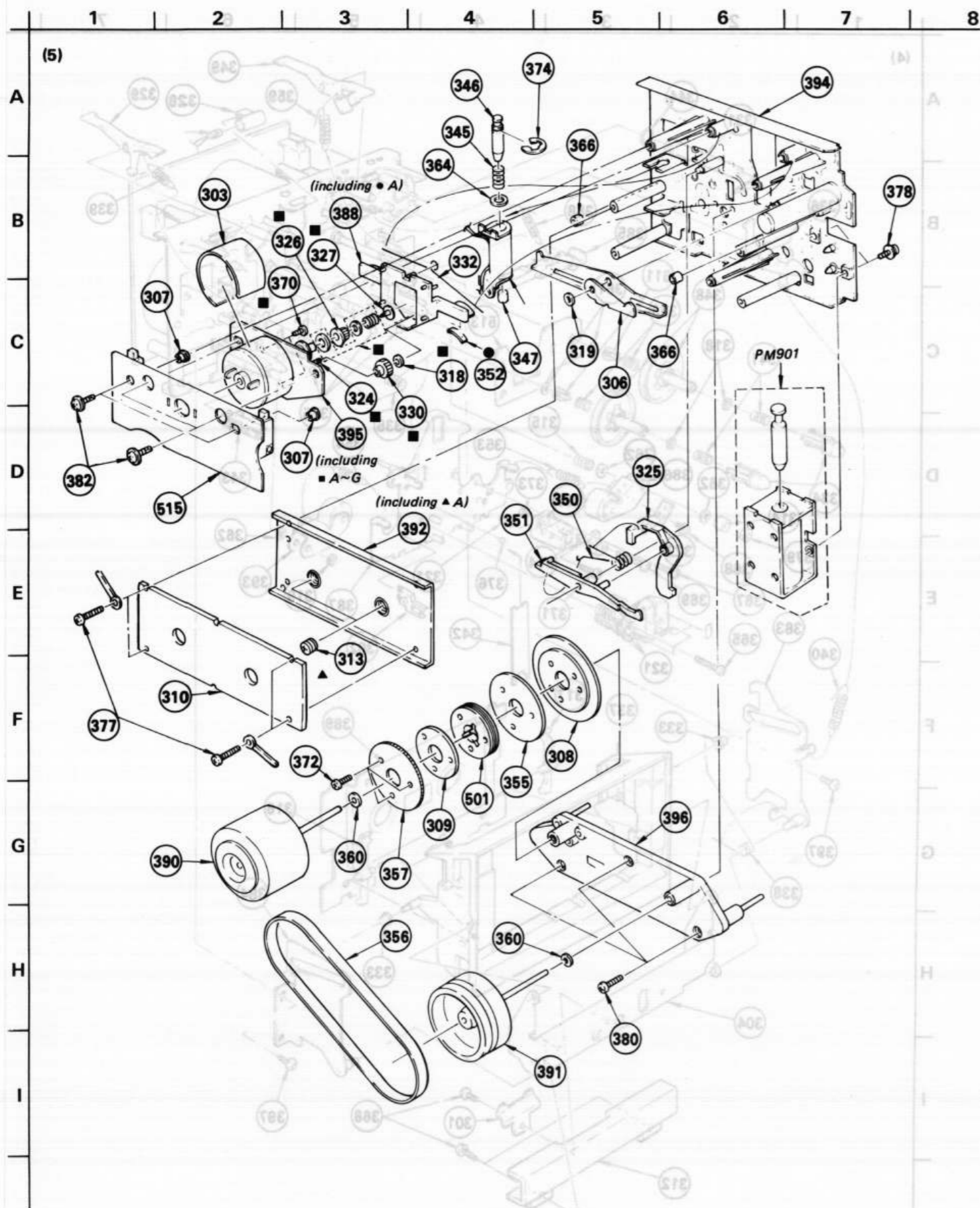
Semiconductor Lead Layouts

<p>2SA1138 2SB734 2SC2676</p>	<p>2SC1815-GR 2SC2001</p>	<p>CX10031A</p>	<p>10E2 1S5202-1 1S1555 30DF-FA EQB01-07 HZ5C2 HZ8C3L HZ11C1L HZ11C3L HZ241L HZ271L RD12EN2</p>
<p>2SA1175 2SD1020</p>	<p>2SD1406</p>	<p>CX10034 CX20087 CX20088 MB84049UB MSL9359RS MSM5814RS NJM2043D-D NJM4560D $\mu\text{PC4558C}$ $\mu\text{PD554C-089}$</p>	<p>SLR34DU5 SLR34PC5 SLR34UR5</p>
<p>2SB548 2SB731 2SD414 2SD809</p>	<p>2SK120</p>	<p>MB8841H-1264K</p>	<p>THS102A</p>
<p>2SB808 2SC2458 DTA114ES DTC114ES DTC144ES</p>	<p>BA6138</p>		



TC-K555ES II





GENERAL SECTION				ACCESSORIES & PACKING MATERIALS			
No.	Part No.	Description	Part No.	No.	Part No.	Description	Part No.
1	2-259-121-00	SCREW, TR	3-304-419-31	43	4-864-307-00	RING	1-251-134-11
2	2-371-561-00	BUSHING (P), INSULATING	3-304-911-00	44	7-621-775-10	SCREW +B 2.6X4	3-304-926-11
3	3-304-419-31	BUTTON, EJECT	3-304-926-11	45	7-622-207-05	N 2.6, TYPE 2	3-304-927-11
4	*3-304-911-00	SLIDER, EJECT	3-304-927-11	46	7-682-247-09	SCREW +K 3X6	3-304-935-00
5	3-304-926-11	KNOB (A), PUSH	3-304-929-11	47	.....	.....	3-304-930-11
6	3-304-927-11	KNOB (B), PUSH	3-304-930-11	48	7-682-546-09	SCREW +B 3X5	3-304-935-00
7	3-304-929-11	KNOB, HEADPHONE	3-304-935-00	49	7-682-547-09	SCREW +B 3X6	3-304-938-00
8	3-304-930-11	KNOB, BIAS	3-304-938-00	50	7-682-949-09	SCREW +PSW 3X10	3-304-939-00
9	*3-304-935-00	CASE, SHIELD	3-304-939-00	51	7-683-412-05	BOLT, HEXAGON SOCKET 2.6X6	3-304-944-00
10	*3-304-938-00	HOLDER, FL TUBE	3-304-944-00	52	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	3-304-962-00
11	*3-304-939-00	BRACKET, CONTROL BUTTON	3-304-962-00	53	7-685-146-14	SCREW +P 3X8 TYPE2 SLIT	3-304-975-00
12	*3-304-944-00	PLATE, SIDE, RIGHT	3-304-975-00	54	7-685-752-04	SCREW +BVTT 3X8 (S)	3-304-985-01
13	3-304-962-00	COVER, MD	3-304-985-01	55	7-685-871-01	SCREW +BVTT 3X6 (S)	3-304-986-01
14	*3-304-975-00	SHEET, ORNAMENTAL	3-304-986-01	56	9-911-837-XX	CUSHION (A), FILTER	3-304-987-01
15	3-304-985-01	PLATE, ORNAMENTAL, WINDOW	3-304-987-01	57	9-911-838-XX	CUSHION, STOPPER	3-304-988-01
16	3-304-986-01	WINDOW, CASSETTE	3-304-988-01	58	9-911-841-XX	CUSHION	3-304-989-11
17	*3-304-987-01	HEAT SINK	3-304-989-11	59	9-911-843-XX	CUSHION, FLYWHEEL	3-304-989-21
18	*3-304-988-01	PLATE, RERY	3-304-989-21	60	.....	.....	3-304-990-01
19	*3-304-989-11	(Canadian, AEP)...PLATE, JACK	3-304-990-01	61	X-3304-909-0	KNOB (RIGHT) ASSY, REC	3-304-992-01
19	*3-304-989-21	(E).....PLATE, JACK	3-304-992-01	62	X-3304-910-0	KNOB (LEFT) ASSY, REC	3-304-993-01
20	*3-304-990-01	PLATE, BOTTOM	3-304-993-01	63	X-3304-911-0	KNOB ASSY, POWER	3-304-994-01
21	3-304-992-01	LID, CASSETTE	3-304-994-01	64	X-3304-916-0	BUTTON ASSY, CONTROL	3-310-859-00
22	*3-304-993-01	PLATE, SIDE, LEFT	3-310-859-00	65	X-3304-918-1	PANEL ASSY, FRONT	3-311-623-11
23	*3-304-994-01	CHASSIS, AMPLIFIER	3-311-623-11	66	X-3304-919-1	ESCUTCHEON SUB ASSY	3-534-238-XX
24	*3-310-859-00	HEAT SINK, IC	3-534-238-XX	67	3-306-006-01	CUSHION, MOTOR	3-567-242-00
25	3-311-623-11	SPACER	3-567-242-00	68	3-318-608-01	COVER, INSULATION	3-575-502-00
26	3-534-238-XX	SPRING, TENSION	3-575-502-00	69	4-875-455-01	(AEP)....COVER CAPACITOR	3-575-515-41
27	*3-567-242-00	HEAT SINK	3-575-515-41	69	4-875-455-21	(E).....COVER CAPACITOR	3-575-524-00
28	*3-575-502-00	BRACKET, EJECT	3-575-524-00	70	7-685-870-09	SCREW +BVTT 3X5 (S)	3-575-539-41
29	3-575-515-41	KNOB, SLIDE SWITCH	3-575-539-41				3-576-731-00
30	3-575-524-00	COVER, POWER SWITCH	3-576-731-00				3-646-090-11
31	3-575-539-41	CASE	3-646-090-11				.....
32	3-576-731-00	FELT (H)	.....				3-701-506-01
33	3-646-090-11	RIVET, NYLON	3-701-506-01				.....
34	.....	.....	.....				.....
35	3-701-506-01	SET SCREW, DOUBLE POINT 3X4	.....				.....
36	*3-701-946-22	(Canadian)...LABEL, FUSE	.....				.....
36	*3-701-948-16	(AEP,E).....LABEL, FUSE	.....				.....
37	3-703-037-00	INSULATOR, TO-220	.....				.....
38	3-703-108-21	SCREW +BV 3X6, S TIGHT	.....				.....
39	3-703-244-00	BUSHING, CORD	.....				.....
40	3-703-249-01	SCREW, S TIGHT, +PTTW 3X6	.....				.....
41	4-807-341-00	HOLDER, FUSE	.....				.....
42	4-820-330-31	SCREW, BW, PLUS MINUS	.....				.....

NOTE:
 The mechanical parts with no reference number in the exploded views are not supplied.
 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

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

COILS
 MMH : mH, UH : μH

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

ACCESSORY & PACKING MATERIAL			
No.	Part No.	Description	Ref. No.
101	1-551-734-11	CORD, CONNECTION (RK-74A)	101
102	3-304-956-00	SHEET, PROTECTION	102
103	3-304-973-00	SHEET, PROTECTION	103
104	3-304-996-01	CUSHION (LEFT), LOWER	104
105	3-304-997-01	CUSHION (RIGHT), LOWER	105
106	3-304-998-01	CUSHION (LEFT), UPPER	106
107	3-304-999-01	CUSHION (RIGHT), UPPER	107
108	*3-318-601-01	(AEP).....LABEL, MODEL NUMBER	108
108	*3-318-602-01	(Canadian).....LABEL, MODEL NUMBER	108
108	*3-318-603-01	(E).....LABEL, MODEL NUMBER	108
109	3-318-607-01	(Canadian,AEP)....INDIVIDUAL CARTON	109
109	3-318-608-01	(E).....INDIVIDUAL CARTON	109
110	3-701-630-00	BAG, POLYETHYLENE	110
111	3-703-710-41	STICKER, SONY SYMBOL (12)	111
112	3-773-737-11	(Canadian,AEP,E)...MANUAL, INSTRUCTION	112
113	3-773-737-41	(AEP).....MANUAL, INSTRUCTION	113
114	3-793-481-13	INSTRUCTION	114
115	3-793-828-11	QUESTIONNAIRE	115
116	8-890-454-10	(Canadian)....TAPE	116
117	X-3701-105-0	ROD ASSY, CLEANING, HEAD	117

MECHANISM SECTION			
No.	Part No.	Description	Ref. No.
301	3-304-639-00	PLATE, SHIELD, HEAD	301
302	*3-304-963-00	RETAINER, LEAD	302
303	3-306-209-00	PLATE (D), SHIELD, MOTOR	303
304	3-306-215-00	LEVER, FULCRUM, HOLDER	304
305	*3-306-216-00	BRACKET, HEAD, ERASE	305
306	*3-306-260-00	LEVER, FWD	306
307	3-306-277-00	LIFTER, PC BOARD	307
308	*3-310-831-01	PLATE, SHIELD, MOTOR	308
309	3-310-865-00	WASHER, INSULATING	309
310	*3-318-403-01	REINFORCEMENT	310
311	3-318-405-01	RETAINER, SPRING	311
312	3-318-406-01	PLATE, ORNAMENTAL, HEAD	312
313	3-489-073-21	SCREW, THRUST	313
314	3-491-191-00	COLLAR	314
315	3-537-213-00	SPRING, COMPRESSION	315
316	3-555-113-00	SPRING (RIGHT)	316
317	3-555-114-00	SPRING (LEFT)	317
318	3-558-708-11	WASHER, STOPPER	318
319	3-558-708-21	WASHER, STOPPER	319
320	3-564-027-11	FELT, LIMITER	320
321	3-564-121-00	SPRING, COMPRESSION	321
322	3-564-138-00	GUIDE (S), TAPE	322
323	3-571-850-11	SPRING, COMPRESSION	323
324	3-575-304-00	SHAFT, GEAR, FR	324
325	3-575-318-00	LEVER, LOCK, TUNING	325
326	3-575-324-00	GEAR, LIMITER	326
327	3-575-327-00	STOPPER	327
328	3-575-328-00	HOLDER, LAMP	328
329	3-575-331-00	LEVER, DETECTION, HALF	329
330	3-575-332-00	GEAR, FR	330
331	3-575-333-00	PISTON	331
332	3-575-345-00	SPRING	332
333	3-575-348-00	ROLLER, GUIDE, THREADING	333
334	3-575-350-00	CLAW, REEL TABLE	334
335	3-575-351-00	SPRING	335
336	3-575-354-00	LEVER, LOCK	336
337	3-575-355-31	HOLDER, CASSETTE	337
338	3-575-356-00	SPRING	338
339	3-575-358-00	SPRING, TENSION	339
340	3-575-364-00	SPRING, TENSION	340
341	3-575-365-00	SPRING, COMPRESSION	341
342	*3-575-377-00	SPRING	342
343	*3-575-378-00	GUIDE, LEAD	343
344	3-575-392-00	RING, PISTON	344
345	3-575-414-00	SPRING, COMPRESSION	345

NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.
Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μF , PF: μPF .
COILS
MMH : mH, UH : μH

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

MECHANISM SECTION			
No.	Part No.	Description	Ref. No.
346	3-575-415-11	ARBOR, MOVABLE	346
347	3-575-416-11	ARBOR, FIXED	347
348	3-575-447-00	TABLE, REEL	348
349	3-575-449-00	LEVER, DETECTION, REC	349
350	3-575-458-00	SPRING	350
351	3-575-460-00	LEVER, SELECT TUNE	351
352	3-575-469-00	SHOE, BRAKE	352
353	3-575-481-00	SPRING, TENSION	353
354	3-575-482-00	SPRING, TENSION	354
355	*3-576-810-00	PLATE, RETURN CIRCUIT	355
356	3-576-812-00	BELT, CAPSTAN	356
357	3-576-961-11	PLATE, FG	357
358	3-632-261-00	SPRING	358
359	3-650-542-00	SPRING, TENSION	359
360	3-701-438-21	WASHER	360
361	3-701-439-11	WASHER	361
362	3-701-439-21	WASHER	362
363	3-701-441-11	WASHER	363
364	3-701-444-11	WASHER, 6	364
365	3-701-467-00	SCREW, LOCK	365
366	4-855-109-12	RUBBER, LIFTER CUSHION	366
367	7-621-771-06	SCREW +B 2X5	367
368	7-621-772-10	SCREW +B 2X4	368
369	7-621-772-88	SCREW +B 2X16	369
370	7-621-775-10	SCREW +B 2.6X4	370
371	7-621-775-20	SCREW +B 2.6X5	371
372	7-621-775-60	SCREW +B 2.6X12	372
373	7-622-205-05	N 2, TYPE 2	373
374	7-624-109-04	STOP RING 5.0, TYPE -E	374
375	7-671-112-11	BALL, STEEL	375
376	7-671-113-11	BALL, STEEL	376
377	7-682-648-01	SCREW +PS*3X8	377
378	7-682-949-01	SCREW +PSW 3X10	378
379	7-684-023-04	N 3, TYPE 2	379
380	7-685-791-04	SCREW +BVTT 2.6X5 (S)	380
381	7-685-862-01	SCREW +BVTT 2.6X6 (S)	381
382	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2	382
383	*X-3575-301-0	PLATE (A) ASSY, HOLDER FULCRUM	383
384	*X-3575-302-0	PLATE (B) ASSY, FULCRUM	384
385	X-3575-310-0	LEVER ASSY, TENSION, BACK	385
386	X-3575-321-0	PINCH LEVER (S) ASSY	386
387	X-3575-323-0	CHASSIS ASSY, HEAD	387
388	*X-3575-342-0	PLATE ASSY, BRAKE	388
389	X-3575-355-0	PLATE ASSY, ORNAMENTAL	389
390	X-3575-377-1	FLYWHEEL (TAKE-UP) ASSY	390

NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.
Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μF , PF: μPF .
COILS
MMH : mH, UH : μH

MECHANISM SECTION			
No.	Part No.	Description	Ref. No.
391	X-3575-378-1	FLYWHEEL (SUPPLY) ASSY	391
392	X-3575-379-1	RETAINER ASSY, THRUST	392
393	X-3575-380-1	PINCH LEVER (T) ASSY	393
394	*X-3575-381-1	CHASSIS ASSY, MECHANICAL	394
395	X-3575-382-1	MOTOR ASSY, REEL	395
396	X-3575-383-1	BASE ASSY, CAPSTAN	396
397	7-685-861-01	SCREW +BVTT 2.6X5	397

ELECTRICAL PARTS table with columns: Ref.No., Part No., Description, Value, Voltage. Includes parts 501-519 and C102-C119.

ELECTRICAL PARTS table with columns: Ref.No., Part No., Description, Value, Voltage. Includes parts C126-C213 and C129-C143.

ELECTRICAL PARTS table with columns: Ref.No., Part No., Description, Value, Voltage. Includes parts C214-C258 and C229-C243.

ELECTRICAL PARTS table with columns: Ref.No., Part No., Description, Value, Voltage. Includes parts C301-C311 and C312-C323.

NOTE: The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: µF, PF: µµF. COILS: MMH : mH, UH : µH. SEMICONDUCTORS: In each case, U : µ, for example: UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified. Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE: The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: µF, PF: µµF. COILS: MMH : mH, UH : µH. SEMICONDUCTORS: In each case, U : µ, for example: UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Vol.
C708	1-123-364-00	ELECT	1000MF	20%
C709	1-123-356-00	ELECT	10MF	20%
C710	1-123-360-00	ELECT	100MF	20%
C711	1-123-356-00	ELECT	10MF	20%
C712	1-123-346-00	ELECT	220MF	20%
C713	1-123-356-00	ELECT	10MF	20%
C714	1-123-380-00	ELECT	1MF	20%
C715	1-123-307-00	ELECT	100MF	20%
C716	1-123-306-00	ELECT	47MF	20%
C717	1-161-327-00	CERAMIC	0.0033MF	30%
C718	1-161-327-00	CERAMIC	0.0033MF	30%
C719	1-161-271-00	CERAMIC	100PF	5%
C720	1-161-271-00	CERAMIC	100PF	5%
C721	1-161-494-00	CERAMIC	0.022MF	30%
C722	1-161-494-00	CERAMIC	0.022MF	30%
C723	1-161-494-00	CERAMIC	0.022MF	30%
C724	1-161-494-00	CERAMIC	0.022MF	30%
C725	1-161-494-00	CERAMIC	0.022MF	30%
C726	1-161-494-00	CERAMIC	0.022MF	30%
C727	1-161-494-00	CERAMIC	0.022MF	30%
C728	1-161-330-00	CERAMIC	0.01MF	30%
C729	1-161-330-00	CERAMIC	0.01MF	30%
C730	1-161-494-00	CERAMIC	0.022MF	30%
C731	1-123-380-00	ELECT	1MF	20%
C902	1-130-620-00	FILM	0.01MF	5%
C903	1-130-624-00	FILM	0.022MF	5%
C904	1-130-624-00	FILM	0.022MF	5%
C905	1-130-620-00	FILM	0.01MF	5%
C906	1-102-851-00	CERAMIC	15PF	5%
C907	1-102-851-00	CERAMIC	15PF	5%
C908	1-161-328-00	CERAMIC	0.0047MF	30%
C909	1-130-140-00	FILM	0.039MF	5%
C910	1-130-635-00	FILM	0.18MF	5%
C911	1-130-631-00	FILM	0.082MF	5%
C912	1-123-356-00	ELECT	10MF	20%
C913	1-123-356-00	ELECT	10MF	20%
C914	1-101-005-00	CERAMIC	0.022MF	50V
C915	1-101-005-00	CERAMIC	0.022MF	50V
C916	1-130-631-00	FILM	0.082MF	5%
C917	1-130-628-00	FILM	0.047MF	5%
C918	1-123-332-00	ELECT	47MF	20%
C919	1-123-332-00	ELECT	47MF	20%
C920	1-123-332-00	ELECT	47MF	20%
C921	1-123-332-00	ELECT	47MF	20%
C922	1-162-052-00	CERAMIC	22PF	5%

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Vol.
C923	1-162-052-00	CERAMIC	22PF	5%
C924	1-123-333-00	ELECT	100MF	20%
C925	1-123-333-00	ELECT	100MF	20%
C926	1-124-554-00	ELECT	3300MF	20%
C927	1-124-554-00	ELECT	3300MF	20%
C928	1-123-306-00	ELECT	47MF	20%
C929	1-123-306-00	ELECT	47MF	20%
CNJ301	1-507-531-31	PLATE, PIN-JACK		
CNJ302	1-507-796-21	JACK		
CNP701*	1-560-060-00	PIN, CONNECTOR 2P		
CNP702*	1-560-061-00	PIN, CONNECTOR 3P		
CNP704*	1-560-062-00	PIN, CONNECTOR 4P		
CNP705*	1-560-062-00	PIN, CONNECTOR 4P		
CNP706*	1-560-063-00	PIN, CONNECTOR 5P		
CNP707*	1-560-064-00	PIN, CONNECTOR 6P		
CNP709*	1-560-065-00	PIN, CONNECTOR 8P		
CNP710*	1-560-065-00	PIN, CONNECTOR 8P		
CNP901*	1-560-061-00	PIN, CONNECTOR 3P		
CNP902*	1-560-339-00	PIN, CONNECTOR 9P		
CNP903*	1-508-879-00	BASE POST		
CP701	1-161-744-00	CAP, CERAMIC 10000PF FZ		
CP301	1-464-252-00	OSCILLATION UNIT, BIAS		
CT101	1-141-225-00	CAP, TUNING, TRIMAR		
CT201	1-141-225-00	CAP, TUNING, TRIMAR		
D301	8-719-910-64	DIODE HZ6B1L		
D302	8-719-910-64	DIODE HZ6B1L		
D303	8-719-107-94	DIODE 1SS202-1		
D304	8-719-910-19	DIODE HZ11C3L		
D305	8-719-107-94	DIODE 1SS202-1		
D306	8-719-107-94	DIODE 1SS202-1		
D307	8-719-910-64	DIODE HZ6B1L		
D501	8-719-102-97	DIODE RD12E-N2		
D502	8-719-102-97	DIODE RD12E-N2		
D503	8-719-910-64	DIODE HZ6B1L		
D504	8-719-911-19	DIODE 1SS202-1		
D505	8-719-911-19	DIODE 1SS202-1		
D506	8-719-102-97	DIODE RD12E-N2		
D507	8-719-994-54	DIODE HZ5C2		
D701	8-719-200-02	DIODE 10E-2		
D702	8-719-200-02	DIODE 10E-2		
D703	8-719-200-02	DIODE 10E-2		
D704	8-719-200-02	DIODE 10E-2		
D705	8-719-200-02	DIODE 10E-2		
D706	8-719-931-07	DIODE EQ801-07		
D707	8-719-922-71	DIODE HZ27-1L		

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

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

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

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

ELECTRICAL PARTS

Table with columns: Ref.No., Part No., Description. Lists various electrical components like diodes (D708-D716, D717-D719, D901-D903, D904-D906, D907-D908, F701), indicator tubes (FL), heads (HE, HRP), ICs (IC101-IC202, IC301-IC303, IC304-IC306, IC501-IC502, IC701, IC702-IC704, IC901-IC904).

ELECTRICAL PARTS

Table with columns: Ref.No., Part No., Description. Lists various electrical components like micro inductors (L101-L106, L201-L203, L204-L206, L301-L302, L501), filters (LPF101, LPF201), lamps (PL301-PL302, PL901), solenoids (PM901, PM902), and transistors (Q101-Q102, Q201-Q202, Q301-Q302, Q303-Q305, Q306-Q308, Q311-Q313, Q314-Q316, Q317-Q318, Q501-Q502).

ELECTRICAL PARTS

Table with columns: Ref.No., Part No., Description. Lists various electrical components like transistors (Q503-Q505, Q701-Q703, Q704-Q706, Q707-Q709, Q710-Q712, Q713-Q715, Q716-Q718, Q719-Q721, Q722-Q724, Q725-Q727, Q728-Q730, Q903-Q905, Q906-Q909, R101-R103, R104-R106).

ELECTRICAL PARTS

Table with columns: Ref.No., Part No., Description. Lists various electrical components like carbon resistors (R107-R109, R110-R112, R113-R115, R116-R118, R119-R121, R122-R124, R125-R127, R128-R130, R131-R133, R134-R136, R137-R139, R140-R142, R143-R145, R146-R148, R149-R151).

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : µH

SEMICONDUCTORS

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

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

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

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : µH

SEMICONDUCTORS

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

ELECTRICAL PARTS

ELECTRICAL PARTS

ELECTRICAL PARTS

ELECTRICAL PARTS

Table with 6 columns: Ref.No., Part No., Description, Qty, Unit, and Remarks. Lists parts R152 to R207.

Table with 6 columns: Ref.No., Part No., Description, Qty, Unit, and Remarks. Lists parts R208 to R252.

Table with 6 columns: Ref.No., Part No., Description, Qty, Unit, and Remarks. Lists parts R253 to R308.

Table with 6 columns: Ref.No., Part No., Description, Qty, Unit, and Remarks. Lists parts R309 to R355.

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service.

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

COILS MMH : mH, UH : µH

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

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied. Items marked " * " are not stocked since they are seldom required for routine service.

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

COILS MMH : mH, UH : µH

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

ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Unit	Notes
R701	1-212-971-00	FUSIBLE	36	5%	1/2W F
R702	1-247-141-00	CARBON	2.7K	5%	1/4W
R703	1-213-059-00	FUSIBLE	9.1	5%	1W F
R704	1-247-152-00	CARBON	7.5K	5%	1/4W
R705	1-217-387-00	FUSIBLE	10	5%	1/4W F
R706	1-247-131-00	CARBON	1K	5%	1/4W
R707	1-247-831-00	CARBON	1K	5%	1/6W
R708	1-247-846-00	CARBON	4.3K	5%	1/6W
R709	1-206-463-00	METAL OXIDE	10	5%	2W F
R710	1-206-477-00	METAL OXIDE	39	5%	2W F
R711	1-247-155-00	CARBON	10K	5%	1/4W
R713	1-247-131-00	CARBON	1K	5%	1/4W
R714	1-247-179-00	CARBON	100K	5%	1/4W
R715	1-247-871-00	CARBON	47K	5%	1/6W
R716	1-247-131-00	CARBON	1K	5%	1/4W
R717	1-247-831-00	CARBON	1K	5%	1/6W
R718	1-247-871-00	CARBON	47K	5%	1/6W
R719	1-247-131-00	CARBON	1K	5%	1/4W
R720	1-247-831-00	CARBON	1K	5%	1/6W
R721	1-247-831-00	CARBON	1K	5%	1/6W
R722	1-247-831-00	CARBON	1K	5%	1/6W
R723	1-247-131-00	CARBON	1K	5%	1/4W
R724	1-247-131-00	CARBON	1K	5%	1/4W
R725	1-247-133-00	CARBON	1.2K	5%	1/4W
R726	1-247-128-00	CARBON	750	5%	1/4W
R727	1-217-383-00	FUSIBLE	4.7	5%	1/4W F
R728	1-247-179-00	CARBON	100K	5%	1/4W
R729	1-247-179-00	CARBON	100K	5%	1/4W
R730	1-246-537-00	CARBON	470K	5%	1/4W
R731	1-246-537-00	CARBON	470K	5%	1/4W
R732	1-247-877-00	CARBON	82K	5%	1/6W
R733	1-247-877-00	CARBON	82K	5%	1/6W
R734	1-247-877-00	CARBON	82K	5%	1/6W
R735	1-247-877-00	CARBON	82K	5%	1/6W
R736	1-247-877-00	CARBON	82K	5%	1/6W
R738	1-247-155-00	CARBON	10K	5%	1/4W
R739	1-247-147-00	CARBON	4.7K	5%	1/4W
R740	1-247-131-00	CARBON	1K	5%	1/4W
R741	1-247-131-00	CARBON	1K	5%	1/4W
R742	1-247-131-00	CARBON	1K	5%	1/4W
R743	1-247-131-00	CARBON	1K	5%	1/4W
R744	1-247-131-00	CARBON	1K	5%	1/4W
R745	1-247-131-00	CARBON	1K	5%	1/4W
R746	1-247-131-00	CARBON	1K	5%	1/4W
R747	1-247-163-00	CARBON	22K	5%	1/4W

Ref.No.	Part No.	Description	Value	Unit	Notes
R748	1-247-163-00	CARBON	22K	5%	1/4W
R749	1-247-163-00	CARBON	22K	5%	1/4W
R750	1-247-163-00	CARBON	22K	5%	1/4W
R751	1-247-163-00	CARBON	22K	5%	1/4W
R752	1-247-163-00	CARBON	22K	5%	1/4W
R753	1-247-163-00	CARBON	22K	5%	1/4W
R754	1-247-163-00	CARBON	22K	5%	1/4W
R755	1-247-163-00	CARBON	22K	5%	1/4W
R756	1-247-163-00	CARBON	22K	5%	1/4W
R757	1-247-163-00	CARBON	22K	5%	1/4W
R758	1-247-855-00	CARBON	10K	5%	1/6W
R759	1-247-163-00	CARBON	22K	5%	1/4W
R760	1-247-163-00	CARBON	22K	5%	1/4W
R761	1-247-163-00	CARBON	22K	5%	1/4W
R762	1-247-163-00	CARBON	22K	5%	1/4W
R763	1-247-163-00	CARBON	22K	5%	1/4W
R764	1-247-163-00	CARBON	22K	5%	1/4W
R765	1-247-163-00	CARBON	22K	5%	1/4W
R766	1-247-163-00	CARBON	22K	5%	1/4W
R767	1-247-131-00	CARBON	1K	5%	1/4W
R768	1-247-147-00	CARBON	4.7K	5%	1/4W
R769	1-247-147-00	CARBON	4.7K	5%	1/4W
R770	1-247-163-00	CARBON	22K	5%	1/4W
R771	1-247-163-00	CARBON	22K	5%	1/4W
R772	1-247-115-00	CARBON	220	5%	1/4W
R773	1-247-123-00	CARBON	470	5%	1/4W
R774	1-247-117-00	CARBON	270	5%	1/4W
R776	1-247-163-00	CARBON	22K	5%	1/4W
R777	1-247-879-00	CARBON	100K	5%	1/6W
R779	1-247-196-00	CARBON	15	5%	1/2W
R901	1-247-831-00	CARBON	1K	5%	1/6W
R902	1-247-831-00	CARBON	1K	5%	1/6W
R903	1-247-873-00	CARBON	56K	5%	1/6W
R904	1-247-831-00	CARBON	1K	5%	1/6W
R905	1-247-850-00	CARBON	6.2K	5%	1/6W
R906	1-247-857-00	CARBON	12K	5%	1/6W
R907	1-247-879-00	CARBON	100K	5%	1/6W
R908	1-247-902-00	CARBON	910K	5%	1/6W
R909	1-247-855-00	CARBON	10K	5%	1/6W
R910	1-247-855-00	CARBON	10K	5%	1/6W
R911	1-214-765-00	METAL	33K	1%	1/4W
R912	1-247-895-00	CARBON	470K	5%	1/6W
R913	1-247-899-00	CARBON	680K	5%	1/6W
R914	1-247-871-00	CARBON	47K	5%	1/6W
R915	1-247-879-00	CARBON	100K	5%	1/6W

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

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

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

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

ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No.	Part No.	Description	QTY	UNIT	REF. NO.
R916	1-247-841-00	CARBON	2.7K	5%	1/6W
R917	1-247-850-00	CARBON	6.2K	5%	1/6W
R918	1-247-877-00	CARBON	82K	5%	1/6W
R919	1-247-771-00	CARBON	3.3	5%	1/6W
R920	1-247-771-00	CARBON	3.3	5%	1/6W
R921	1-247-855-00	CARBON	10K	5%	1/6W
R922	1-247-855-00	CARBON	10K	5%	1/6W
R923	1-247-831-00	CARBON	1K	5%	1/6W
R924	1-247-855-00	CARBON	10K	5%	1/6W
R925	1-247-831-00	CARBON	1K	5%	1/6W
R926	1-247-877-00	CARBON	82K	5%	1/6W
R927	1-247-847-00	CARBON	4.7K	5%	1/6W
R928	1-247-855-00	CARBON	10K	5%	1/6W
R929	1-247-839-00	CARBON	2.2K	5%	1/6W
R930	1-247-839-00	CARBON	2.2K	5%	1/6W
R931	1-247-831-00	CARBON	1K	5%	1/6W
R932	1-247-831-00	CARBON	1K	5%	1/6W
R933	1-247-827-00	CARBON	680	5%	1/6W
R934	1-247-827-00	CARBON	680	5%	1/6W
R935	1-247-843-00	CARBON	3.3K	5%	1/6W
R936	1-247-843-00	CARBON	3.3K	5%	1/6W
R937	1-247-843-00	CARBON	3.3K	5%	1/6W
R938	1-247-843-00	CARBON	3.3K	5%	1/6W
R939	1-247-871-00	CARBON	47K	5%	1/6W
R940	1-247-871-00	CARBON	47K	5%	1/6W
R941	1-217-383-00	FUSIBLE	4.7	5%	1/4W
R942	1-217-383-00	FUSIBLE	4.7	5%	1/4W
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV103	1-226-236-00	RES, ADJ, CARBON	10K		
RV201	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV202	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K		
RV203	1-226-236-00	RES, ADJ, CARBON	10K		
RV301	1-230-344-11	RES, VAR, CARBON	20K/20K		
RV302	1-226-980-00	RES, VAR, CARBON	20K/20K		
RV303	1-226-560-00	RES, VAR, CARBON	5K		
RV701	1-226-233-00	RES, ADJ, CARBON	1K		
RV901	1-224-252-XX	RES, ADJ, METAL GLAZE	10K		
RV902	1-226-232-00	RES, ADJ, CARBON	500		
RV903	1-226-239-00	RES, ADJ, CARBON	100K		
RV904	1-226-232-00	RES, ADJ, CARBON	500		
RV905	1-226-239-00	RES, ADJ, CARBON	100K		
RY301	1-515-519-00	RELAY			

Ref.No.	Part No.	Description	QTY	UNIT	REF. NO.
S301	1-554-007-00	SWITCH, PUSH			
S302	1-554-008-00	SWITCH, PUSH			
S701	1-553-318-00	SWITCH, PUSH (AC POWER)			
S702	1-552-809-00	SWITCH, SLIDE			
S703	1-552-539-00	SWITCH, KEY BOARD			
S704	1-552-539-00	SWITCH, KEY BOARD			
S705	1-552-539-00	SWITCH, KEY BOARD			
S706	1-552-539-00	SWITCH, KEY BOARD			
S707	1-552-539-00	SWITCH, KEY BOARD			
S708	1-552-539-00	SWITCH, KEY BOARD			
S709	1-552-539-00	SWITCH, KEY BOARD			
S710	1-553-235-00	SWITCH, KEY BOARD			
S711	1-553-235-00	SWITCH, KEY BOARD			
S901	1-553-325-00	SWITCH			
S902	1-554-205-00	SWITCH, PUSH			
S903	1-554-205-00	SWITCH, PUSH			
SP301	1-532-605-00	LINK, IC			
SP302	1-532-605-00	LINK, IC			
SP701	1-532-605-00	LINK, IC			
SPK101	1-235-323-11	ENCAPSULATED PARTS (SPK UNIT)			
SPK102	1-235-323-11	ENCAPSULATED PARTS (SPK UNIT)			
SPK201	1-235-323-11	ENCAPSULATED PARTS (SPK UNIT)			
SPK202	1-235-323-11	ENCAPSULATED PARTS (SPK UNIT)			
T701	1-447-896-11	(Canadian)...TRANSFORMER, POWER			
T701	1-447-897-11	(AEP).....TRANSFORMER, POWER			
T701	1-447-898-11	(E).....TRANSFORMER, POWER			
X701	1-527-802-00	OSCILLATOR, CERAMIC			
X901	1-567-082-00	VIBRATOR, CRYSTAL			

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

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

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

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

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

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

Sony Corporation