

TC-K81

*US Model
Canadian Model
AEP Model
UK Model
E Model*

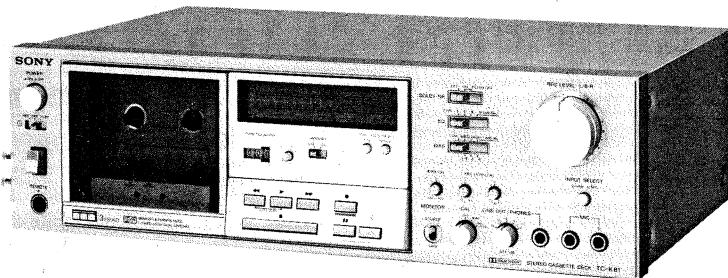


Photo: AEP, UK, US, E model

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

STEREO CASSETTE DECK

SPECIFICATIONS

GENERAL

Power Requirements: AEP model
220V ac ~, 50/60 Hz
(240V ac ~ adjustable by authorized
Sony personnel)
UK model
240V ac ~, 50/60 Hz
(220V ac ~ adjustable by authorized
Sony personnel)
US, Canadian model
120V ac, 60 Hz
E model
110, 120, 220 or 240V ac ~,
50/60 Hz

Power Consumption: 28W (AEP, UK, E model)
26W (US, Canadian model)

Dimensions: Approx. 430(w) x 130(h) x 290(d) mm
17(w) x 5 $\frac{1}{8}$ (h) x 11 $\frac{1}{2}$ (d) inches
(AEP, UK, US, E model)
Approx. 460(w) x 130(h) x 290(d) mm
18 $\frac{1}{8}$ (w) x 5 $\frac{1}{8}$ (h) x 11 $\frac{1}{2}$ (d) inches
(Canadian model)
including projecting parts and controls
Weight: Approx. 6.3kg, 13 lb 14 oz (AEP, UK,
US, E model)
Approx. 7kg, 15 lb 7 oz (Canadian model)

— Continued on page 2 —

Tape Transport Mechanism Type		TCM-100V2
	Specification	Test Equipment
Forward Torque	28–43 g·cm (0.39–0.59 oz·inch)	Sony torque meter CQ-102C
Back Tension Torque	2.5–4.5 g·cm (0.04–0.06 oz·inch)	Sony torque meter CQ-102C
Pinch Roller Pressure	<ul style="list-style-type: none"> • Take-up Side 280–380 g (10–13 oz) • Supply Side 180–280 g (7–10 oz) 	Spring scale or tension gauge

SONY

SERVICE MANUAL

SAFETY RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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 \triangle SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSEES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TAPE RECORDER SECTION

Recording System:	4-track 2-channel stereo	Inputs:	Microphone inputs (phone jacks) 2 sensitivity 0.25 mV (-70 dB) for a low-impedance microphone
Fast-forward and Rewind Time:	Approx. 80 sec. (with C-60)	Line inputs:	(phono jacks) 2 sensitivity 77.5 mV (-20 dB) input impedance 50 kΩ
Frequency Response:	DOLBY NR OFF AEP, UK, E model • With TYPE IV cassette (Sony METALLIC) 20–20,000 Hz 30–18,000 Hz (± 3 dB) 30–13,000 Hz (± 3 dB, 0 VU recording) 30–18,000 Hz (DIN) • With TYPE III cassette (Sony Fe-Cr) 20–20,000 Hz 30–18,000 Hz (± 3 dB) 30–18,000 Hz (DIN) • With TYPE II cassette (Sony CD-α) 20–19,000 Hz 30–17,000 Hz (± 3 dB) 30–17,000 Hz (DIN) • With TYPE I cassette (Sony BHF) 20–17,000 Hz 30–15,000 Hz (± 3 dB) 30–15,000 Hz (DIN)	Outputs:	Variable line outputs (phono jacks) 2 maximum output level 0.435 V (-5 dB) at load impedance 50 kΩ with LINE OUT level control at "0" variable range of output level -5 to -29 dB (5 steps) suitable load impedance more than 10 kΩ
	US, Canadian model • With TYPE IV cassette (Sony METALLIC) 20–20,000 Hz 30–18,000 Hz (± 3 dB) 30–13,000 Hz (± 3 dB, 0 VU recording) • With TYPE III cassette (Sony Fe-Cr) 20–20,000 Hz 30–18,000 Hz (± 3 dB) • With TYPE II cassette (Sony EHF) 20–19,000 Hz 30–17,000 Hz (± 3 dB) • With TYPE I cassette (Sony HFX) 20–17,000 Hz 30–15,000 Hz (± 3 dB)	Fixed line outputs:	(phono jacks) 2 output level 0.435 V (-5 dB) at load impedance 50 kΩ Suitable load impedance more than 10 kΩ
Wow and Flutter:	0.04% WRMS (NAB) ±0.12% (DIN) } (AEP, UK, E model)	Headphone output:	variable range of output level -20 to -44 dB (5 steps) at load impedance 8 Ω
S/N Ratio:	0.04% WRMS (US, Canadian model) DOLBY NR OFF AEP, UK, E model • With TYPE III cassette (Sony Fe-Cr) 60 dB at peak level (NAB) 59 dB (DIN, 1975, rev.) • With TYPE II cassette (Sony CD-α) 58 dB at peak level (NAB)	LED PEAK PROGRAM METERS	 Response Range: -40 dB to +8 dB Frequency Response: 20 Hz – 20,000 Hz ± 1.5 dB Response Time: 1 millisecond Decay Time: (from 0 dB to -20 dB): 750 milliseconds Overshoot: None Indicator Elements: 16 elements for each channel
	US, Canadian model • With TYPE III cassette (Sony Fe-Cr) 60 dB at peak level • With TYPE II cassette (Sony EHF) 58 dB at peak level		
	DOLBY NR ON Improved by 5 dB at 1 kHz, 10 dB above 5 kHz		
Total Harmonic Distortion:	0.8% (with Sony Fe-Cr cassette)		
Bias Frequency:	105 kHz		

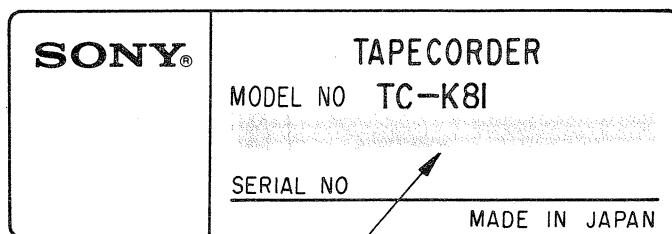
[0 dB = 0.775 V]

SERVICING NOTE

When the top cover is removed, the internal photo transistor may pick up stray light and shut the set off.

MODEL IDENTIFICATION

— Specification Label —



US, Canadian Model: AC 120V 60Hz 26W

AEP model: AC 220V~ 50/60Hz 28W

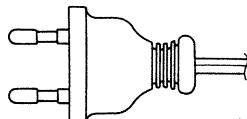
UK model: AC 240V~ 50/60Hz 28W

E model: AC 110, 120, 220, 240V~ 50/60Hz 28W

— Power Cord —

E model: euro-plug 1-534-817-XX

E model: parallel-blade plug 1-551-473-31



Handling Precautions for MOS ICs

Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

(Particular care should be taken under conditions of low humidity.)

Precautions in Replacing MOS ICs

1. Store new ICs by inserting them into a urethane-polyester cushion (which is somewhat conductive), or wrapping it in aluminum foil, so that all the pins are at the same potential.
(The ICs should be stored in that manner until mounted on the circuit board.)

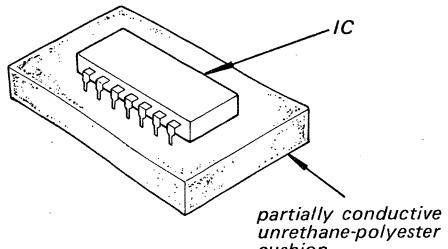


Fig. A

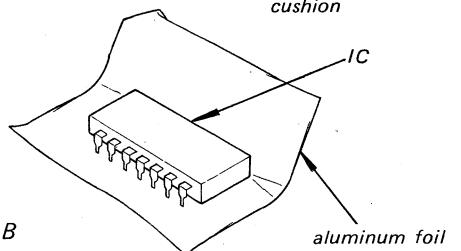


Fig. B

2. Check the soldering iron for possible power-line leakage current. Make sure that there is no leakage path by connecting an ohmmeter to the tip of the soldering iron and the plug as shown in Fig. C. If there is a leakage path, use some other soldering iron.

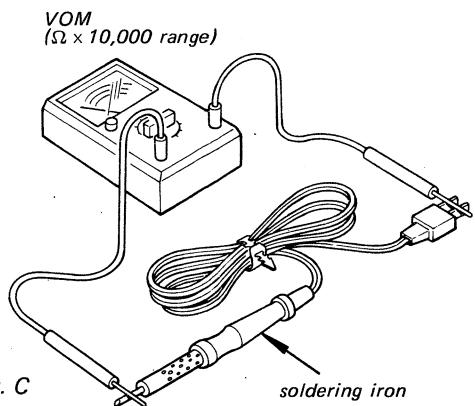


Fig. C

3. Equalize any potential difference between the clothes, the tools in use, the work bench, the set being worked on, and the packaged IC by touching them all in succession with the hands or a conductive wire or tool.
4. The following are effective methods for handling ICs that remove the potential difference across the oxide layer.
 - Use a paper clip modified by soldering in a wire braid insert.

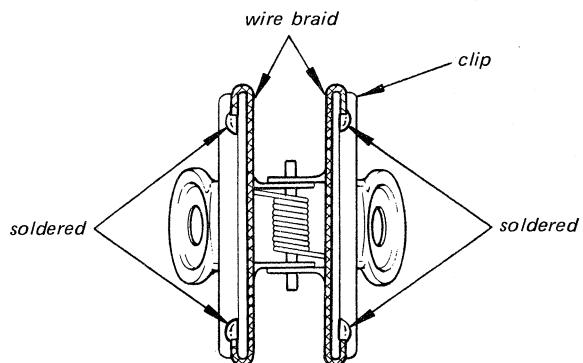


Fig. D

Make sure that there is no solder on the inside.

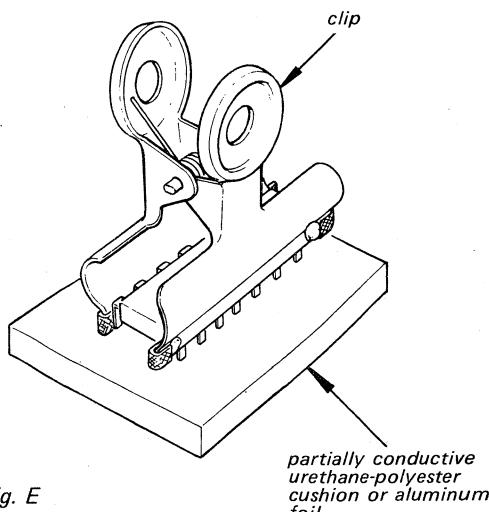


Fig. E

partially conductive urethane-polyester cushion or aluminum foil

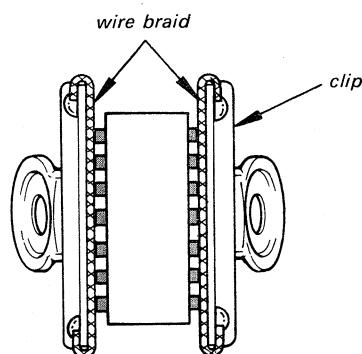


Fig. F

Make sure that all the pins are in contact with the wire braid (all the pins will then be at the same potential.).

- Take a short length of fine bare wire and wind it around the IC so that it shorts all the pins of the IC, while it is still in the urethane-polyester cushion or aluminum foil. This ensures that all the pins are at the same potential.

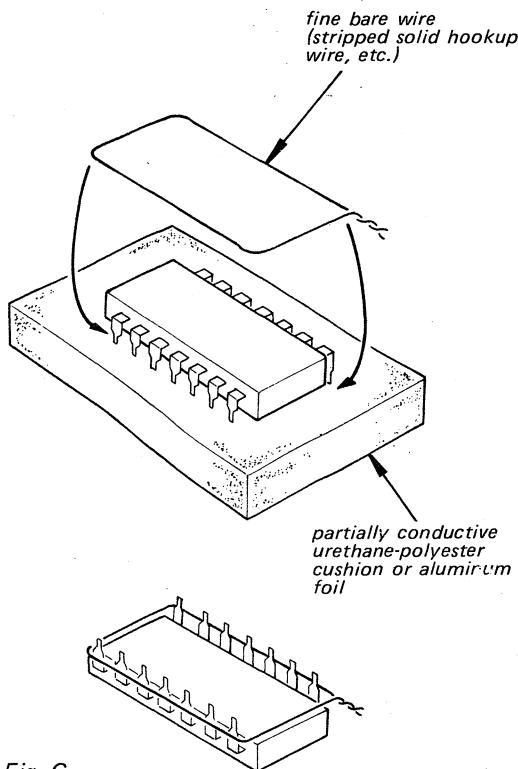


Fig. G

- When it is necessary to handle the IC with the fingers, do not touch any pin, and hold the IC at the ends of its plastic-package case as shown in Fig. H.

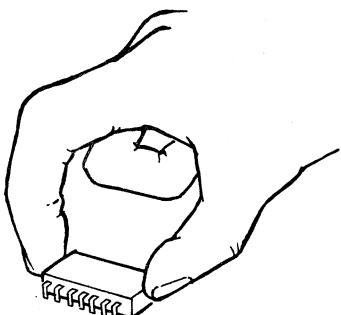


Fig. H

5. Method of Mounting

Insert the IC while holding it with the modified clip, and solder all the pins with the clip still shorting the pins. (Similarly, solder all the pins while the bare shorting wire is still wound around them.). Remove the clip or the bare shorting wire only after all the pins have been soldered.

Precaution while Checking C-MOS ICs

The C-MOS ICs (Complementary MOS) are MOS ICs that have their output sections made up of N-channel and P-channel push-pull stages to increase their speed of operation. If the output terminal of these ICs comes into contact with B+ or B- voltage, then the FET which is ON at that time will either become shorted or open.

This is valid for all the output sections that are connected together by the interconnections. Even the circuits that are physically separated (and not on the same board) can be destroyed simultaneously.

Example:

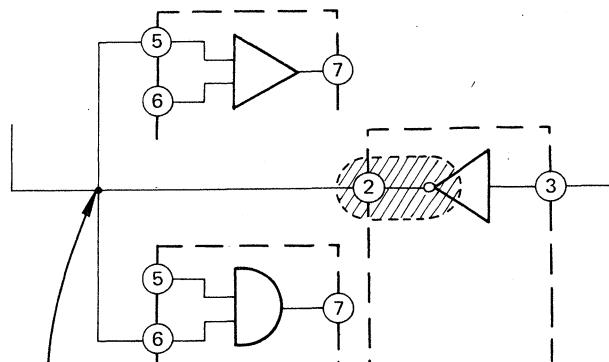
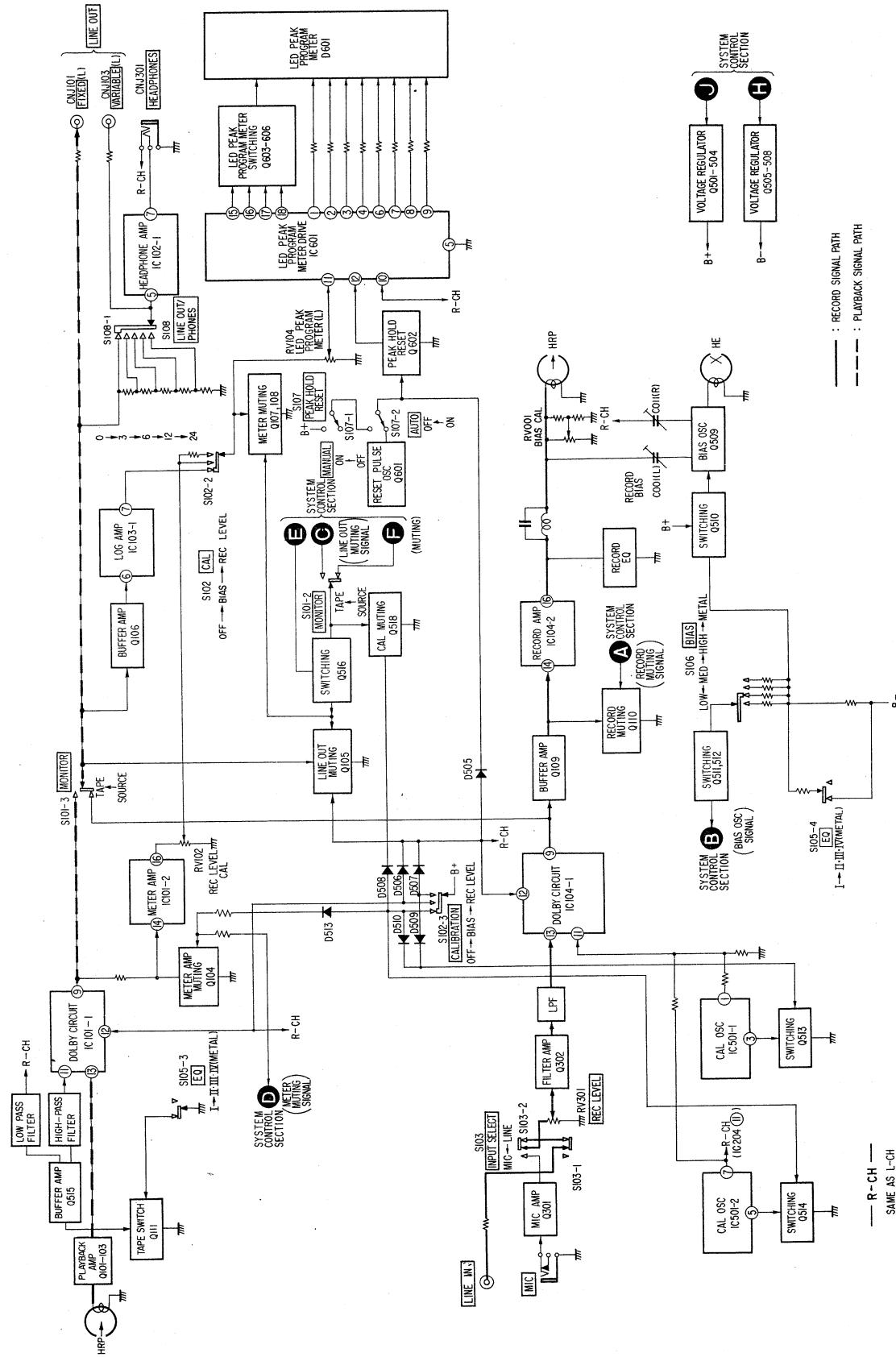


Fig. I

SECTION 1 OUTLINE

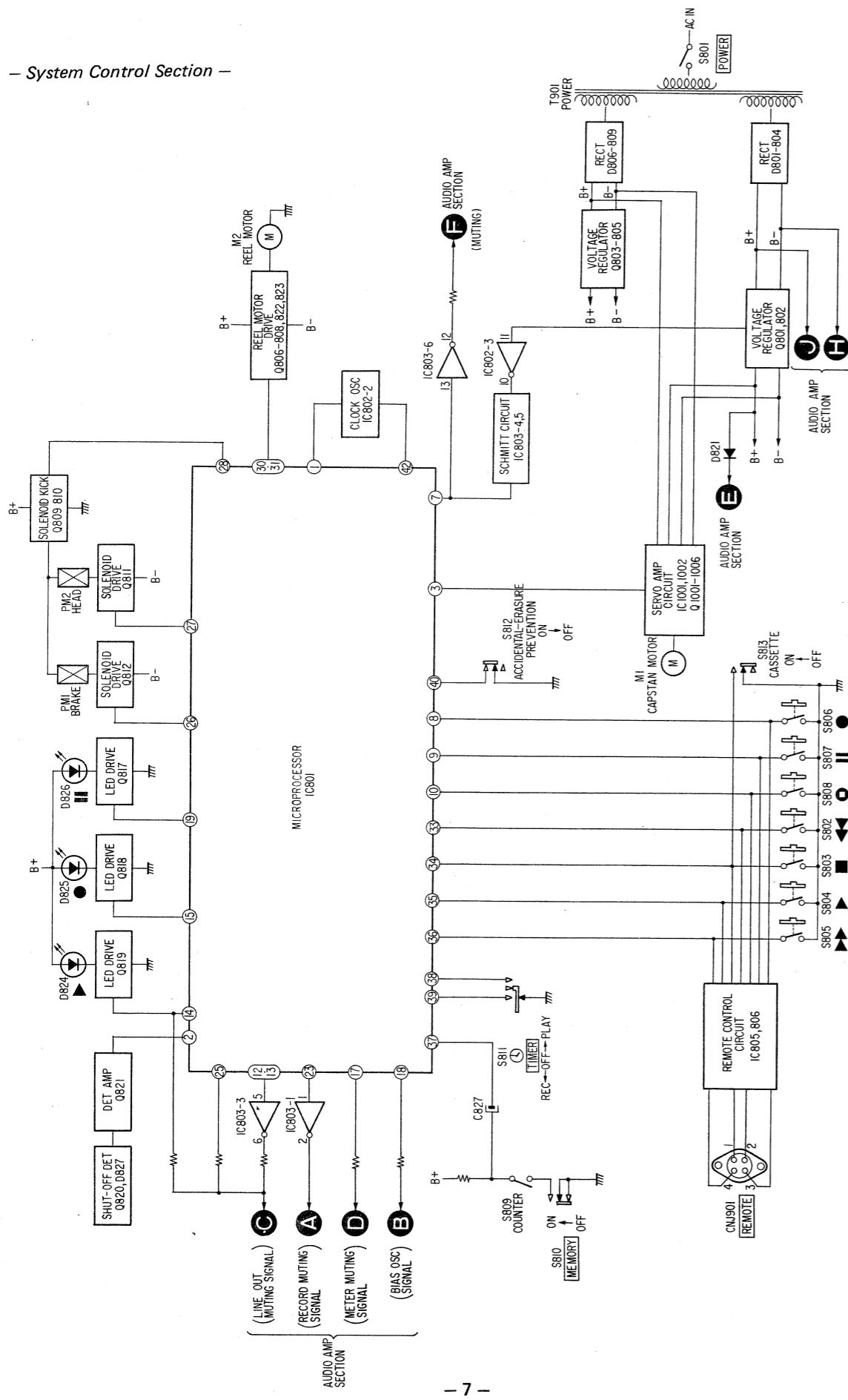
1-1. BLOCK DIAGRAM – *Audio Amp Section* –



SECTION 2

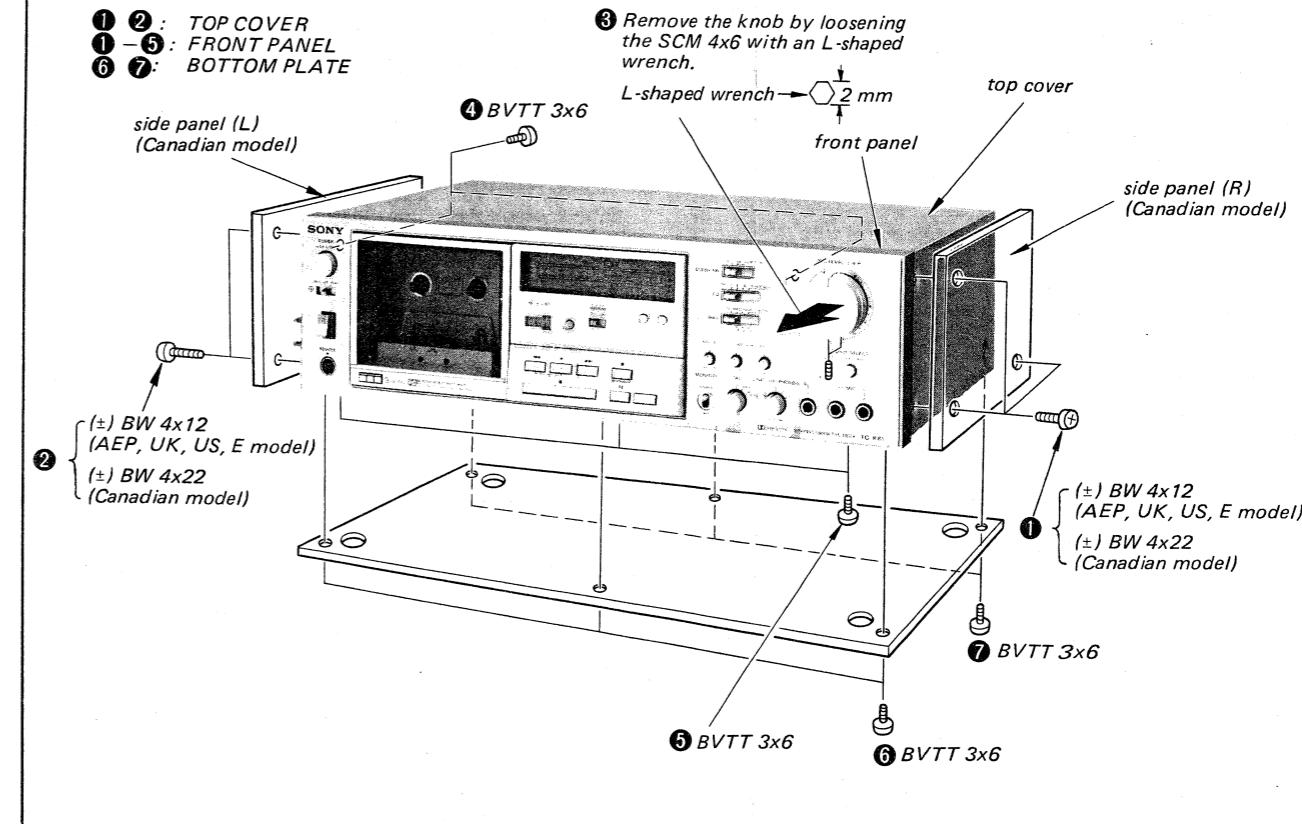
DISASSEMBLY

- System Control Section -

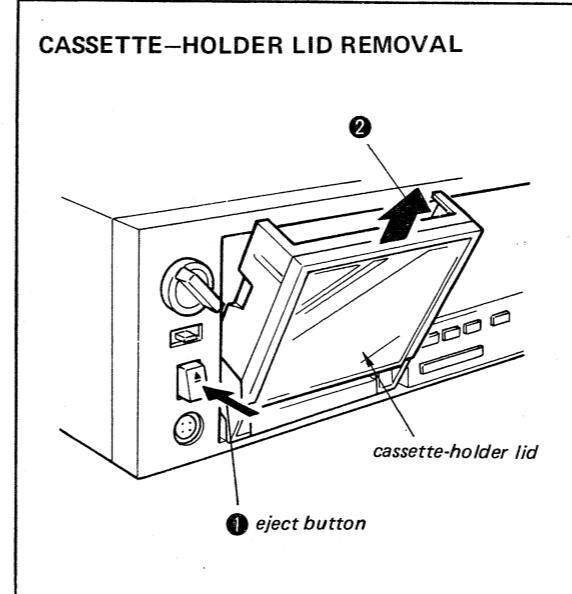


- Follow the disassembly procedure in the numerical order given.

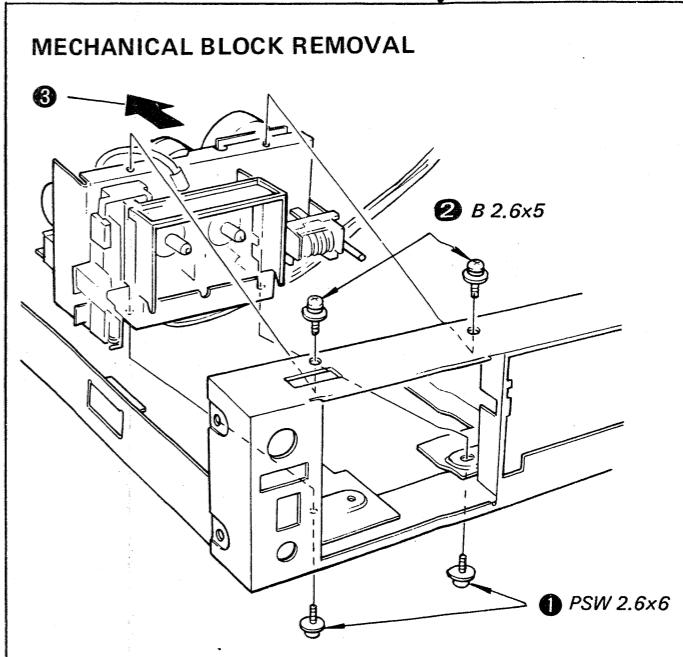
TOP COVER/FRONT PANEL/BOTTOM PLATE REMOVAL



CASSETTE-HOLDER LID REMOVAL



MECHANICAL BLOCK REMOVAL



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

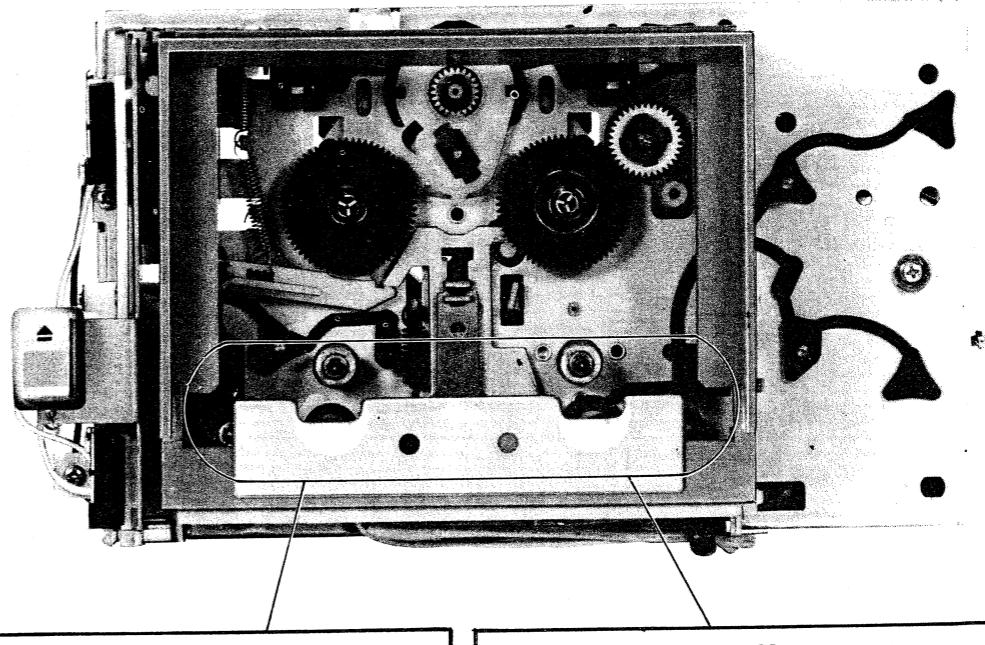
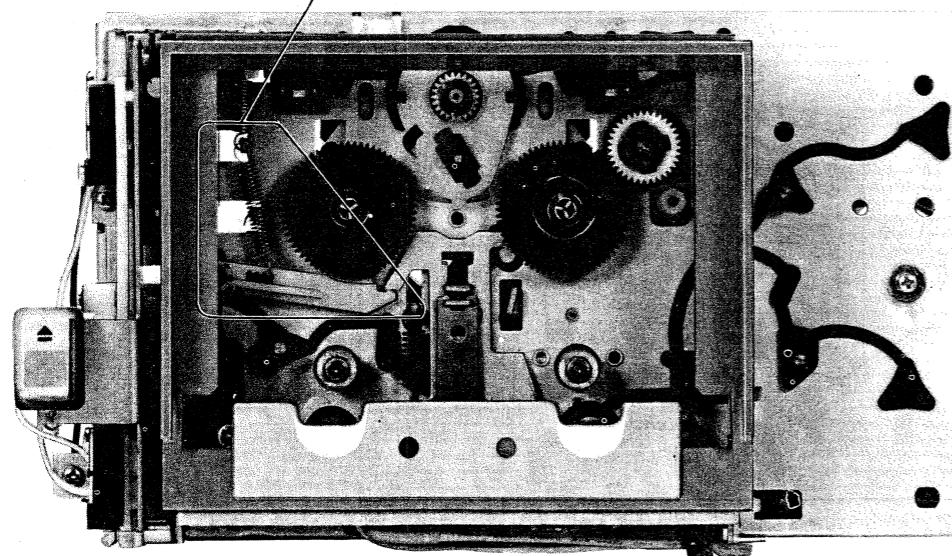
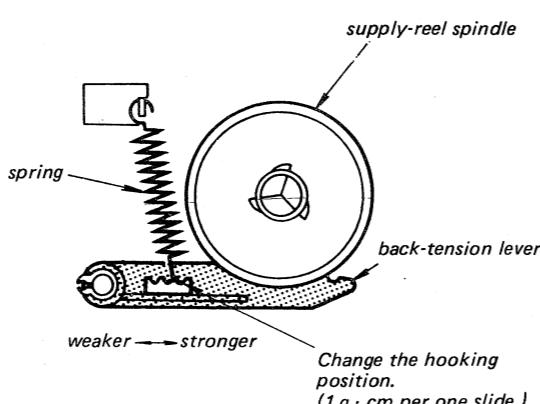
PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:
 record/playback head pinch rollers
 erase head rubber belts
 capstans idlers
- 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.

Torque Measurement and Back Tension Torque Adjustment

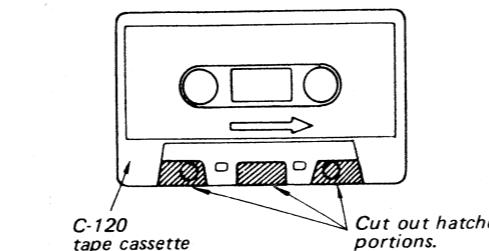
Torque	Torque meter	Meter reading
Forward	CQ-102C	28–43 g·cm (0.39–0.59 oz·inch)
Back tension	CQ-102C	2.5–4.5 g·cm (0.04–0.06 oz·inch)

2. If the specified back-tension torque is not obtained, change the hooking position.

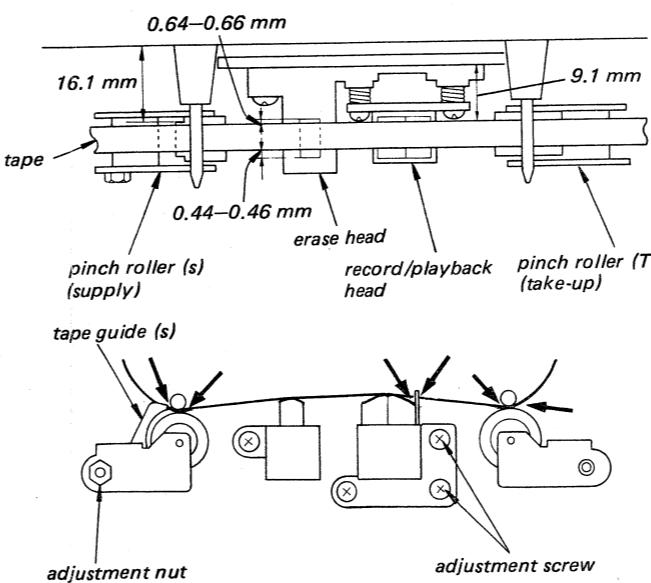


Head Height Adjustment

1. Prepare an adjustment cassette as shown below.

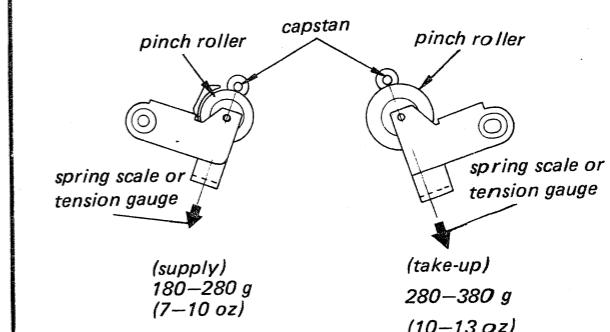


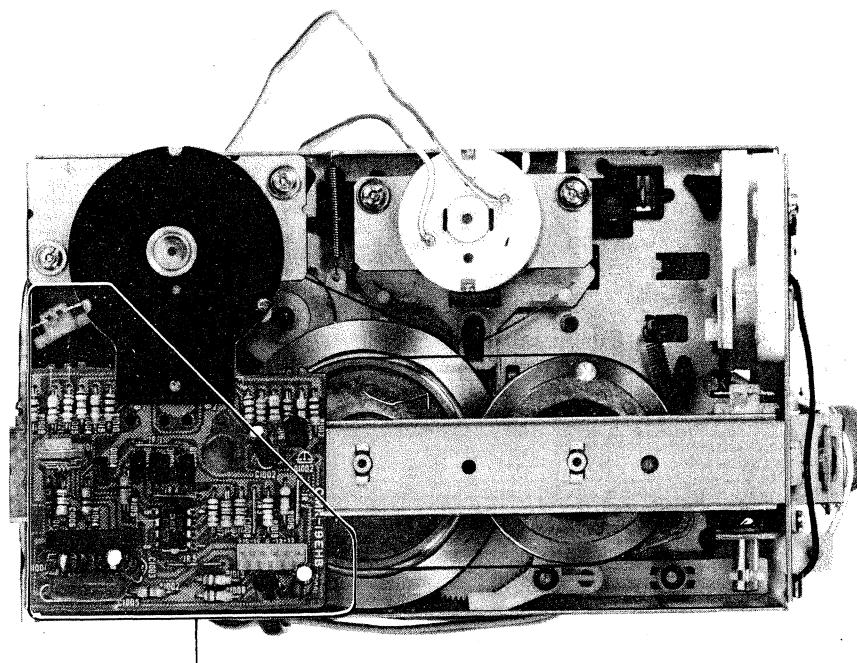
2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrows.



Pinch Roller Pressure Measurement — Forward Mode —

- 1.
-
2. Slowly pull the pinch roller and read the spring scale or the tension gauge just when the pinch roller stops rotating.





Brake Solenoid (PM1) Position Adjustment

— Stop Mode —

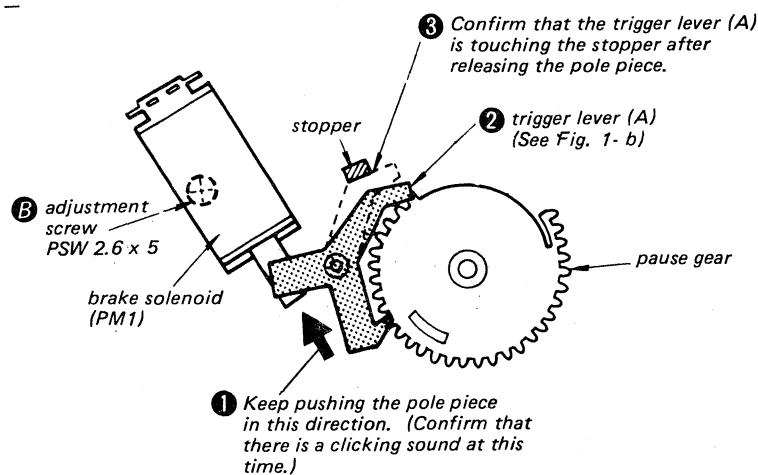


Fig. 1-a

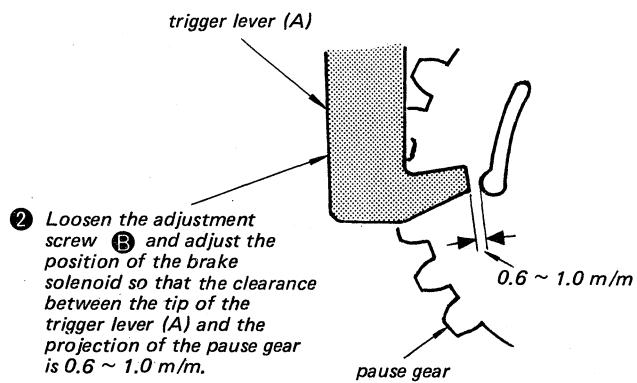
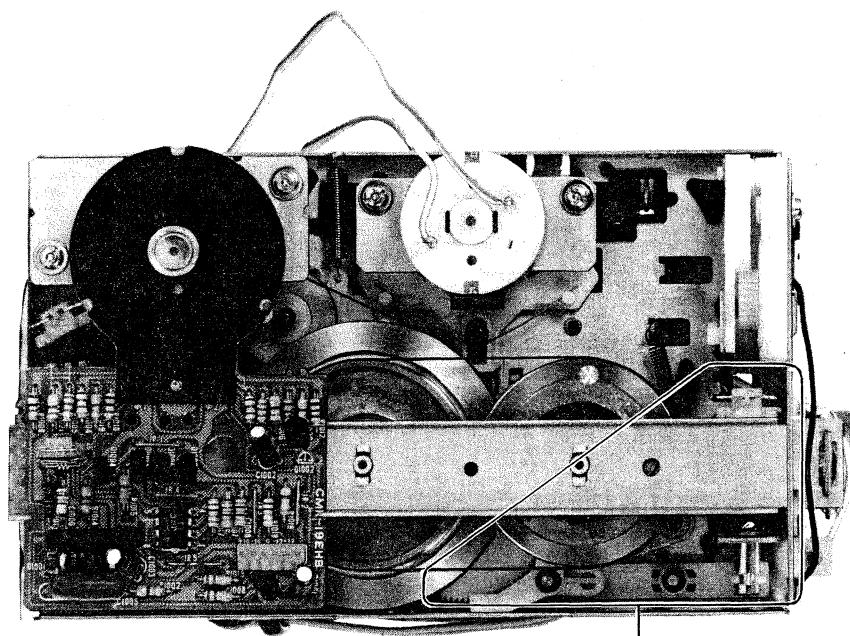


Fig. 1-b



Head Solenoid (PM2) Position Adjustment

— Stop Mode —

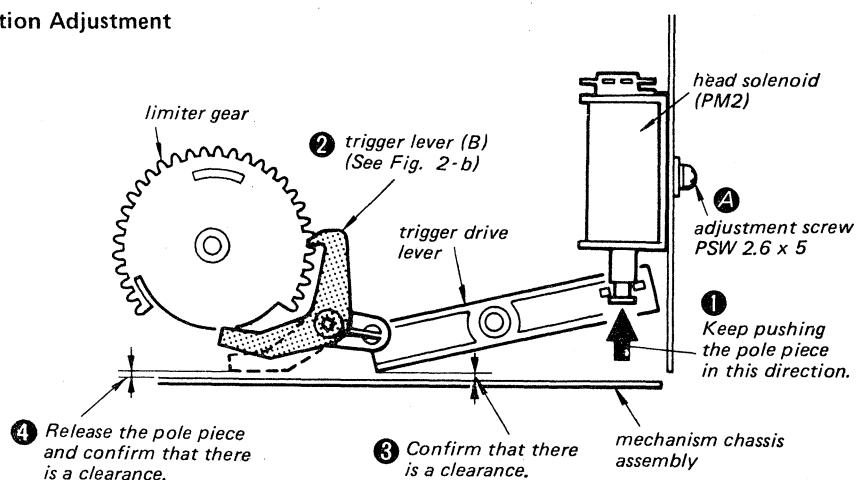


Fig. 2-a

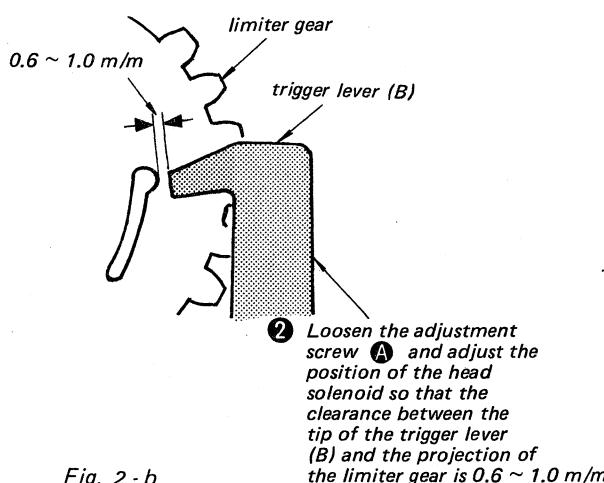


Fig. 2-b

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 BIAS and EQ switches according to the tape as follows.

Tape	BIAS switch	EQ switch
CS-10	MED	TYPE I
CS-25	HIGH	TYPE II
CS-30	MED	TYPE III
CS-40	METAL	TYPE IV

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

DOLBY NR switch:	OFF
EQ switch:	TYPE I
BIAS switch:	MED
MONITOR:	TAPE
CALIBRATION:	OFF
INPUT SELECT:	LINE

- 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

	MIC	LINE IN
source impedance	300 Ω	10 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

Standard Output Level

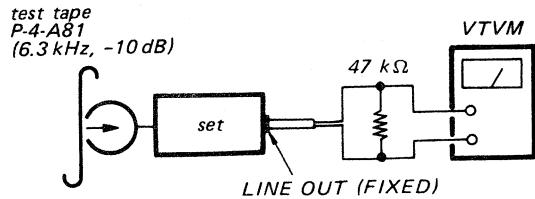
	LINE OUT (FIXED)	HEAD-PHONES
load impedance	47 kΩ	8 Ω
output level	0.44 V (-5 dB)	77 mV* (-20 dB)

* with HEADPHONES/LINE OUT level control at "10".

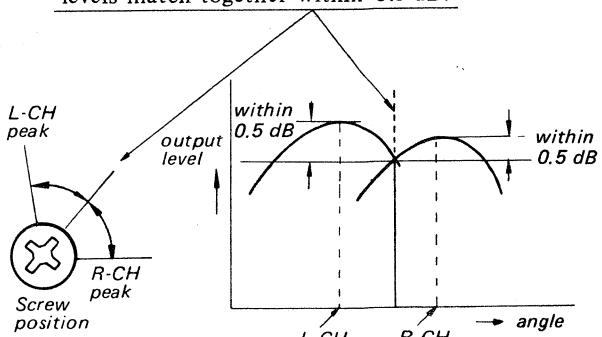
Record/playback Head Azimuth Adjustment

Procedure:

- Mode: playback



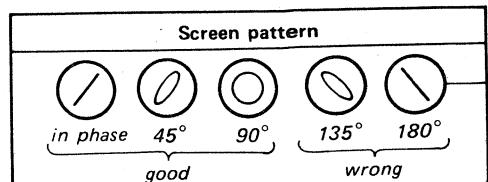
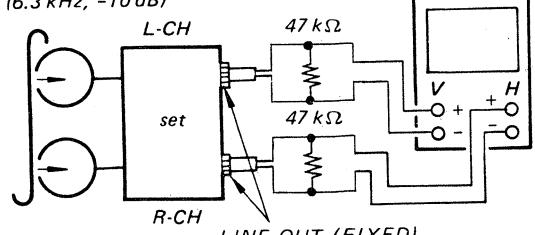
- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



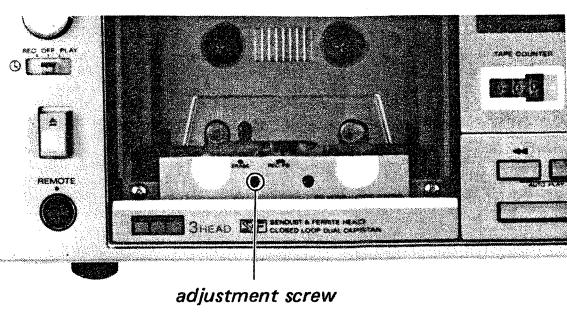
- Phase Check

Mode: playback

test tape
P-4-A81
(6.3 kHz, -10 dB)

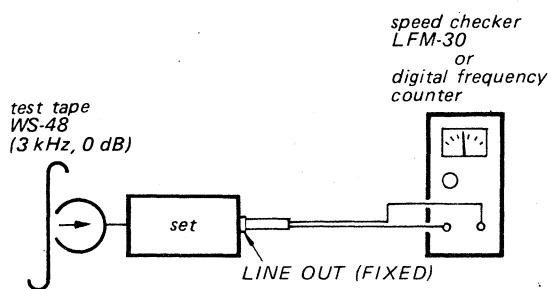


Adjustment Location:



Tape Speed Adjustment**Procedure:**

Mode: playback

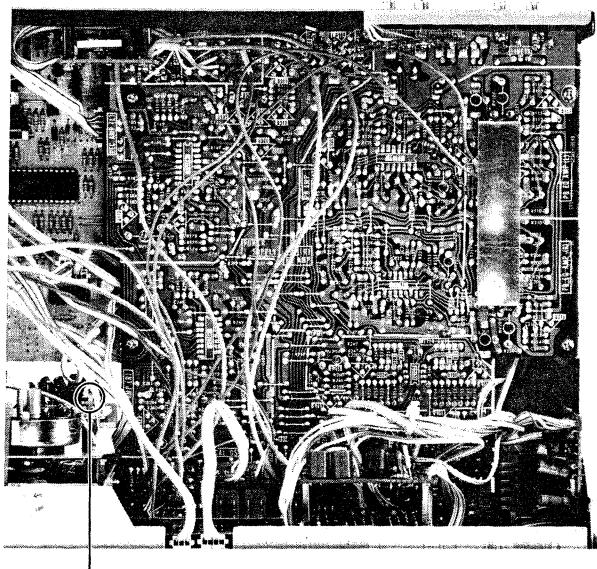
**Specification:**

Speed checker	Digital frequency counter
-0.7 to +0.7%	2,980 – 3,020 Hz

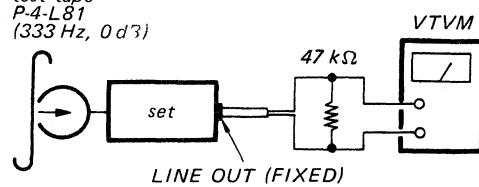
Frequency difference between the beginning and the end of the tape should be within 0.7% (20 Hz).

Adjustment Location:

— servo amp board —

**Playback Level Adjustment****Procedure:**

Mode: playback

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

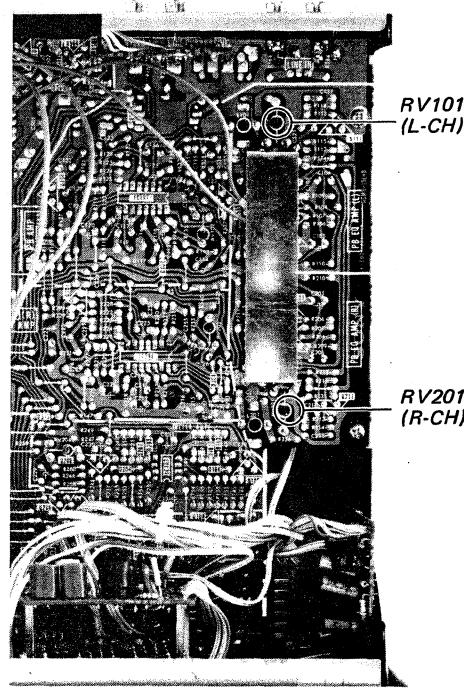
LINE OUT level: 0.52 – 0.59 V
(-3.5 to -2.5 dB)

Level difference between channels:
less than 0.5 dB

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

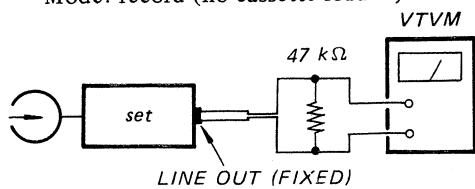
Adjustment Location:

— record/playback board —

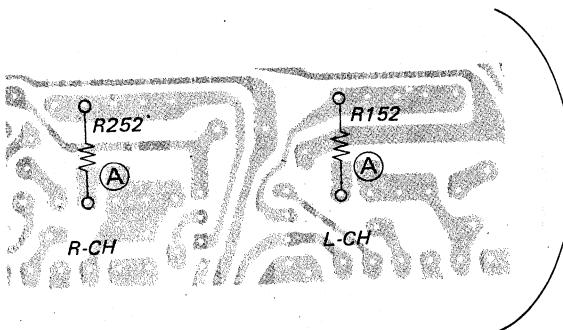
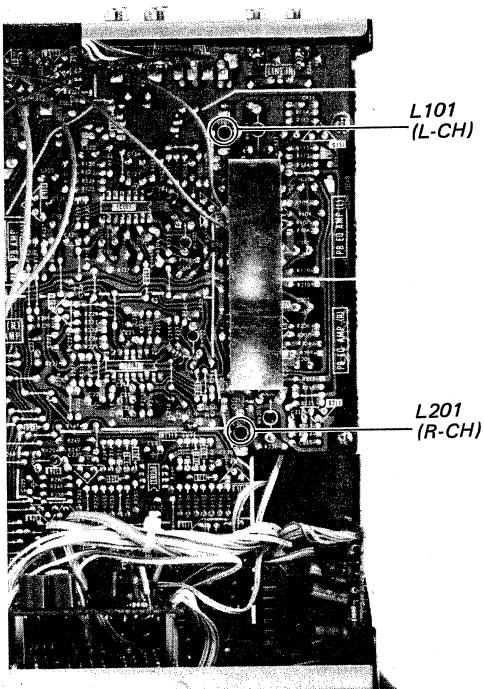


Bias Trap Adjustment**Procedure:**

Mode: record (no-cassette loaded)

**Specification:**LINE OUT level: less than 2.5 mV
(less than -50 dB)**Adjustment Location:**

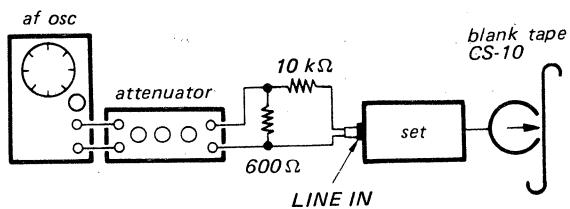
— record/playback board —

**LED Peak Program Meter Calibration****Setting:**REC LEVEL control: standard record
(See page 13.)

MONITOR switch: SOURCE

Procedure:

Mode: record



Slowly turn RV104 (L-CH) and RV204 (R-CH) and stop them just when the segments (■■ -2 dB) go out.

Specification:

LINE IN level	Indication
0.85 - 1.1 V (+1 to +3 dB)	The first segment from the right lights.
2.7 - 5.5 mV (-49 to -43 dB)	The second segment from the left goes out.

If the second segment from the left does not go out when the 2.7 mV (-49 db) LINE IN signal is applied, solder (A).

Adjustment Location:

— record/playback board —

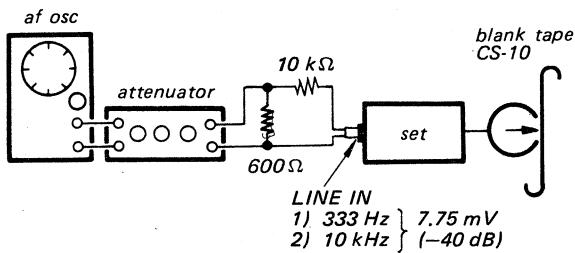


Record Bias Adjustment**Setting:**

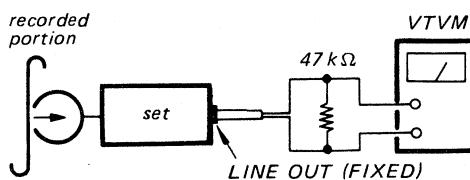
REC LEVEL control: standard record
(See page 13.)

Procedure:

1. Mode: record



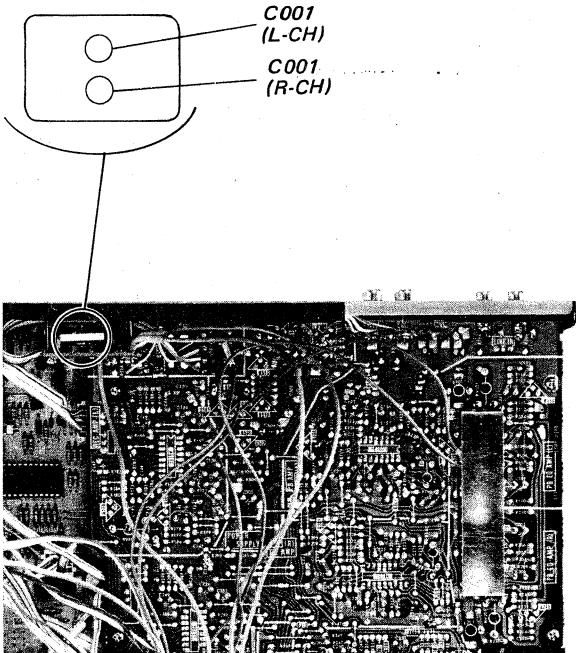
2. Mode: playback



Adjust C001 (L-CH) and C011 (R-CH) so that the 333 Hz and the 10 kHz signal levels become the same.

Adjustment Location:

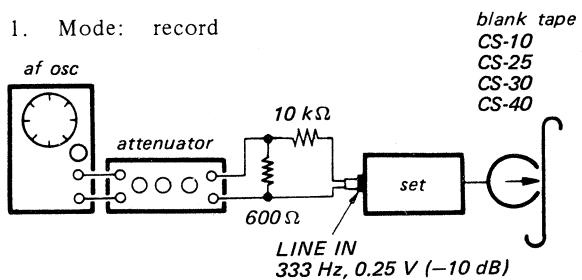
— bias trimmer board —

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

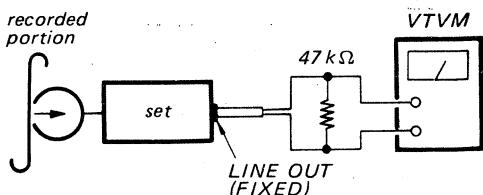
REC LEVEL control: standard record
(See page 13.)

Procedure:

1. Mode: record



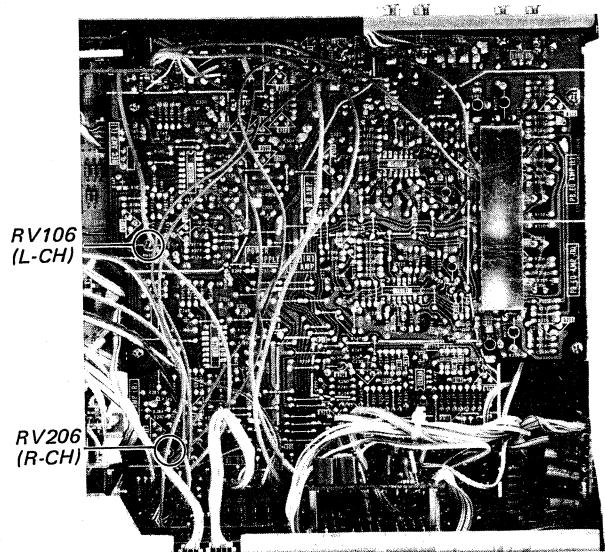
2. Mode: playback

**Specification:**

Tape	LINE OUT level
CS-10	0.41 – 0.46 V (-5.5 to -4.5 dB)
CS-25	0.37 – 0.46 V
CS-30	(-6.5 to -4.5 dB)
CS-40	

Adjustment Location:

— record/playback board —



REC LEVEL CAL (calibration) Adjustment

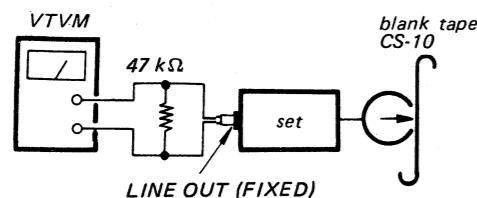
Setting:

CALIBRATION switch: REC LEVEL

Procedure:

1. Unsolder the hatched portion in Fig. 3 before starting the adjustment.
2. Mode: record

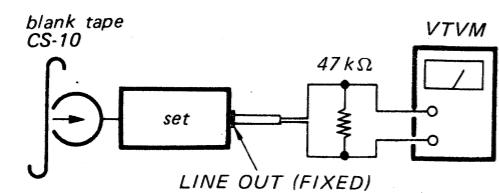
MONITOR switch: SOURCE



Confirm that the LINE OUT level is 43–45 mV
(-25.2 to -24.8 dB).

3. Mode: record and simultaneous playback

MONITOR switch: TAPE



Confirm that the LINE OUT level is
42–47 mV (-25.5 to -24.5 dB).

4. Slowly turn RV102 (L-CH) and RV202 (R-CH) and stop them just when the second RED segments go out.

5. Confirm that the LINE OUT levels vary between 29–66 mV (-28.5 to -21.5 dB) according to the REC LEVEL CAL controls turning.

Adjustment Location

— record/playback board —

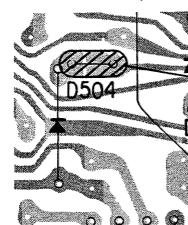


Fig. 3

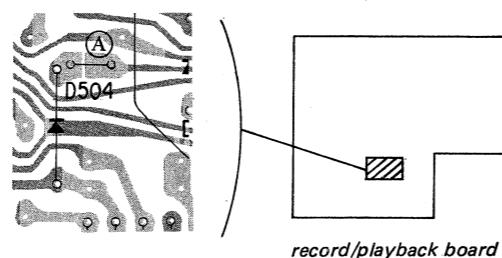
BIAS CAL (calibration) Measurement

Setting:

CALIBRATION switch: BIAS

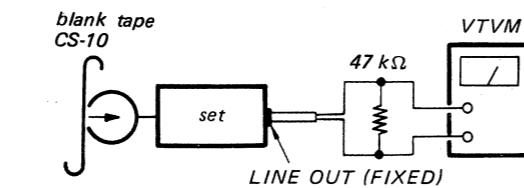
Procedure:

1. Unsolder part A before starting the adjustment.

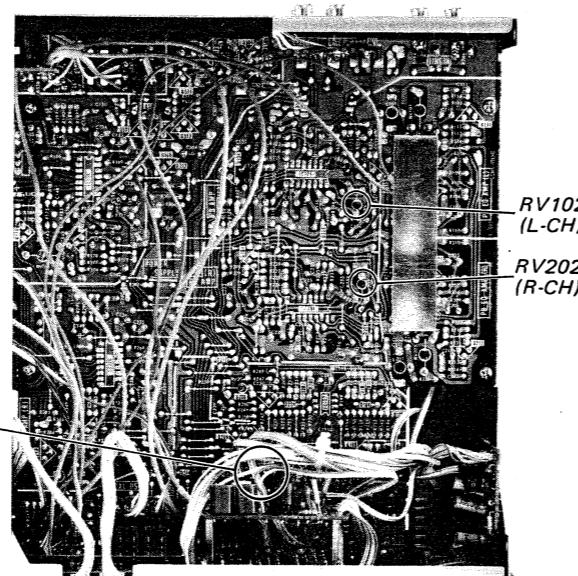


2. Mode: record and simultaneous playback

MONITOR switch: TAPE



3. Confirm that the LINE OUT level is 26–37 mV (-29.5 to -27.5 dB).
4. Confirm that the LED peak program meter indicates approx. 0 dB, and the LINE OUT levels vary between 18–42mV (-32.5 to -25.5 dB) according to the REC LEVEL CAL controls turning.

**(MEMO)**

SECTION 4 DIAGRAMS

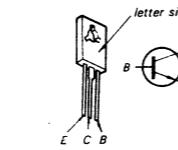
(MEMO)

- **Replacement Semiconductors**

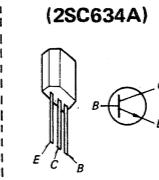
For replacement, use semiconductors except in ().

Q801: 2SD809

Q807: 2SD414

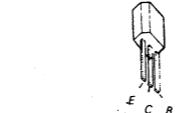


Q1001, 1002: 2SC1364

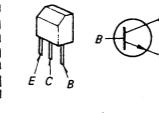


(2SC634A)

Q802, 808: 2SA1027R (2SA1015)

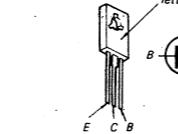


Q1003, 1005: 2SC1475

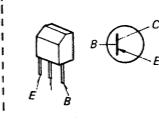


(2SD471)

Q803, 805, 822: 2SB548



Q1004, 1006: 2SA684

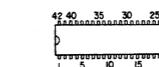


(2SB564)

Q804, 806
809, 817-819 } : 2SC1364
821, 823 } : 2SC1815

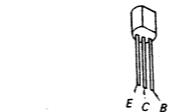
(2SC1815)

IC801: μPD547C-042

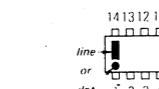


(Top view)

Q810: 2SA684 (2SA773)

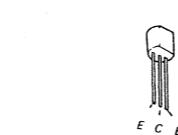


IC802, 803: MSM4069

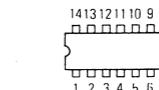


(Top view)

Q811, 812 : 2SC1475

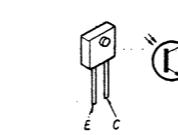


IC805: μPC339C



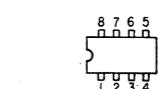
(Top view)

Q820: PH103



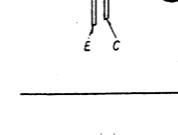
IC806: μPC4558C

IC1002: μPC4558C (μPC4558)

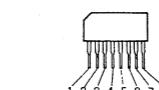


(Top view)

Q821: 2SD414

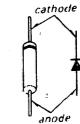


IC1001: CX069

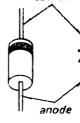


(Top view)

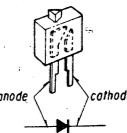
D801-805
806-809 } : 10E2
814, 821 }
D812, 813
815, 817 } : 1S1555
828-833 }



D810, 811: HZ11B2L
D816, 818: HZ12A3L (HZ12A2L)
D819: HZ12B2L (HZ12B1L)
D1001: HZ6B2L (HZ6B1L)

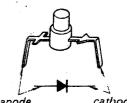


D824: SEL1331G



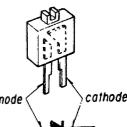
anode
cathode

D825: SEL1112R



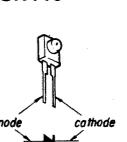
anode
cathode

D826: SEL1741Y



anode
cathode

D827: SR110



anode
cathode

4-1. SCHEMATIC DIAGRAM – System Control Section –

Refer to page 19 for replacement semiconductors and page 25 for voltages and waveforms at the terminals of IC801.

Note:

- All capacitors are in μF unless otherwise noted. $\text{p} : \mu\mu\text{F}$
- 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/4W unless otherwise noted.
- $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- : fusible resistor
- : nonflammable resistor
- 1% indicates component tolerance.
- : B+ bus.
- : B- bus.
- : panel designation.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (20 k Ω/V).

no mark: STOP

- : FORWARD
- : FAST FORWARD
- : REWIND
- : RECORD
- : REC MUTE
- : PAUSE
- : STOP

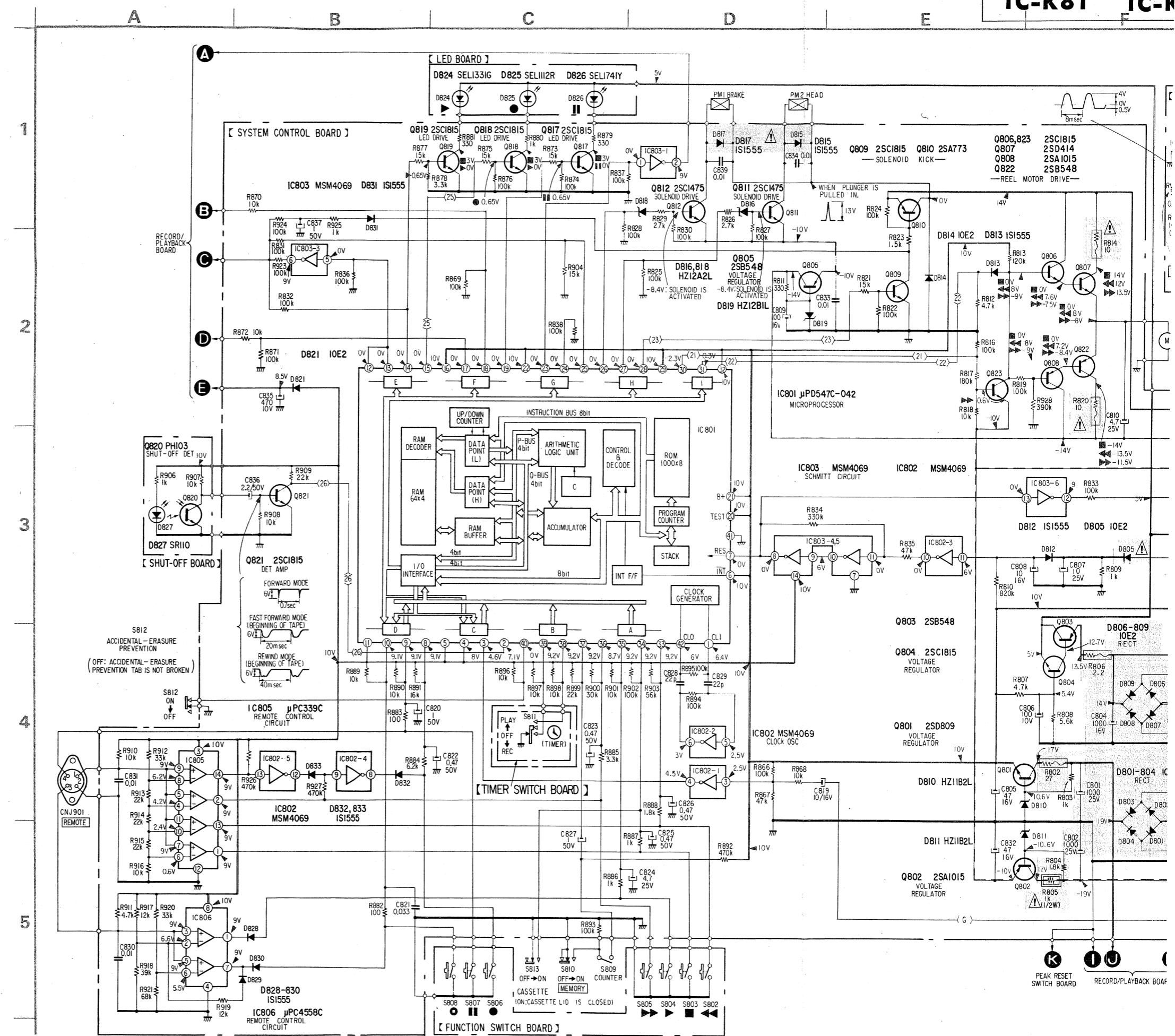
Voltage variations may be noted due to normal production tolerances.

Switch

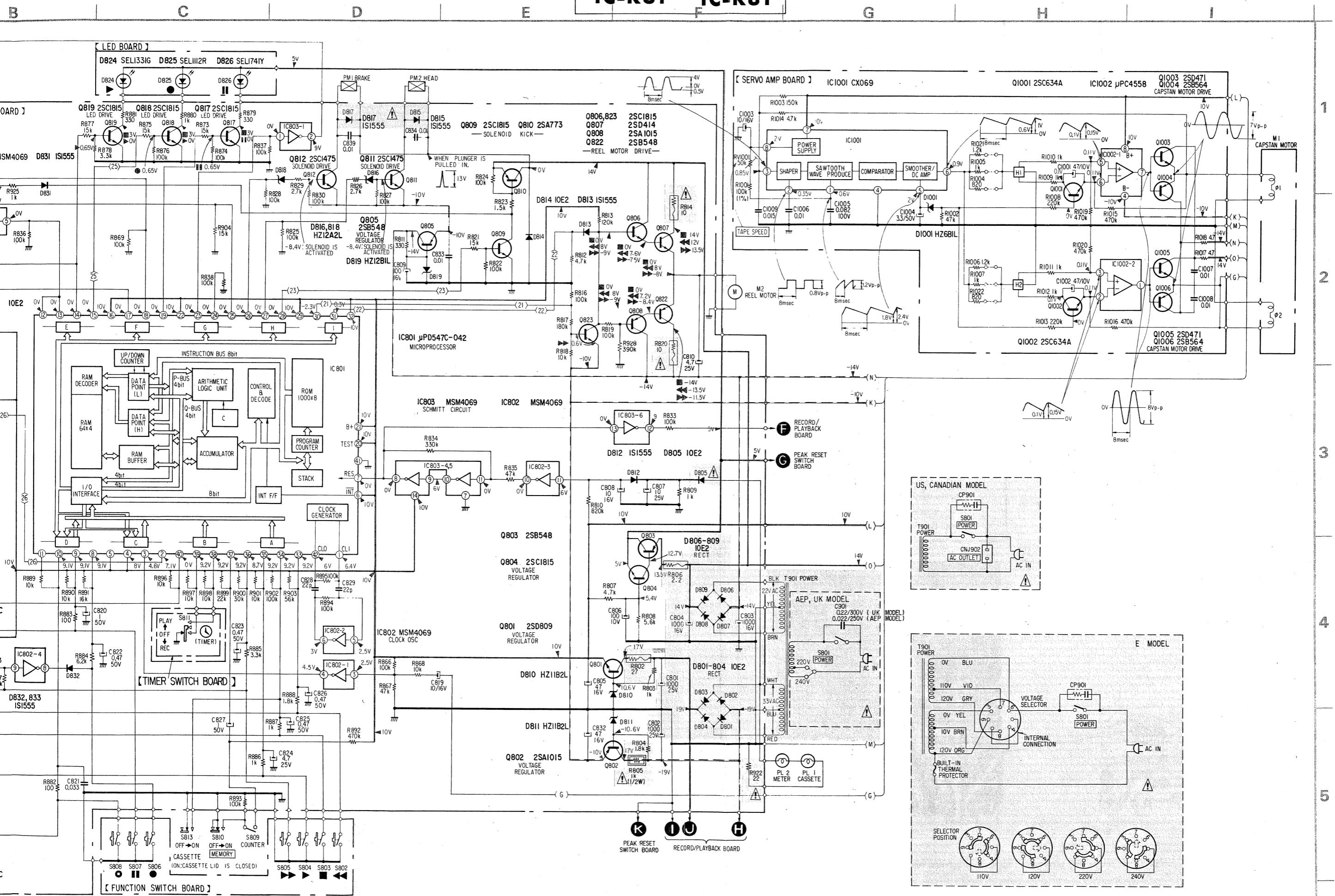
Ref. No.	Switch	Position
S801	POWER	OFF
S802	REWIND	OFF
S803	STOP	OFF
S804	FORWARD	OFF
S805	FAST FORWARD	OFF
S806	RECORD	OFF
S807	PAUSE	OFF
S808	REC MUTE	OFF
S812	ACCIDENTAL-ERASURE PREVENTION CASSETTE	ON
S813	CASSETTE	OFF

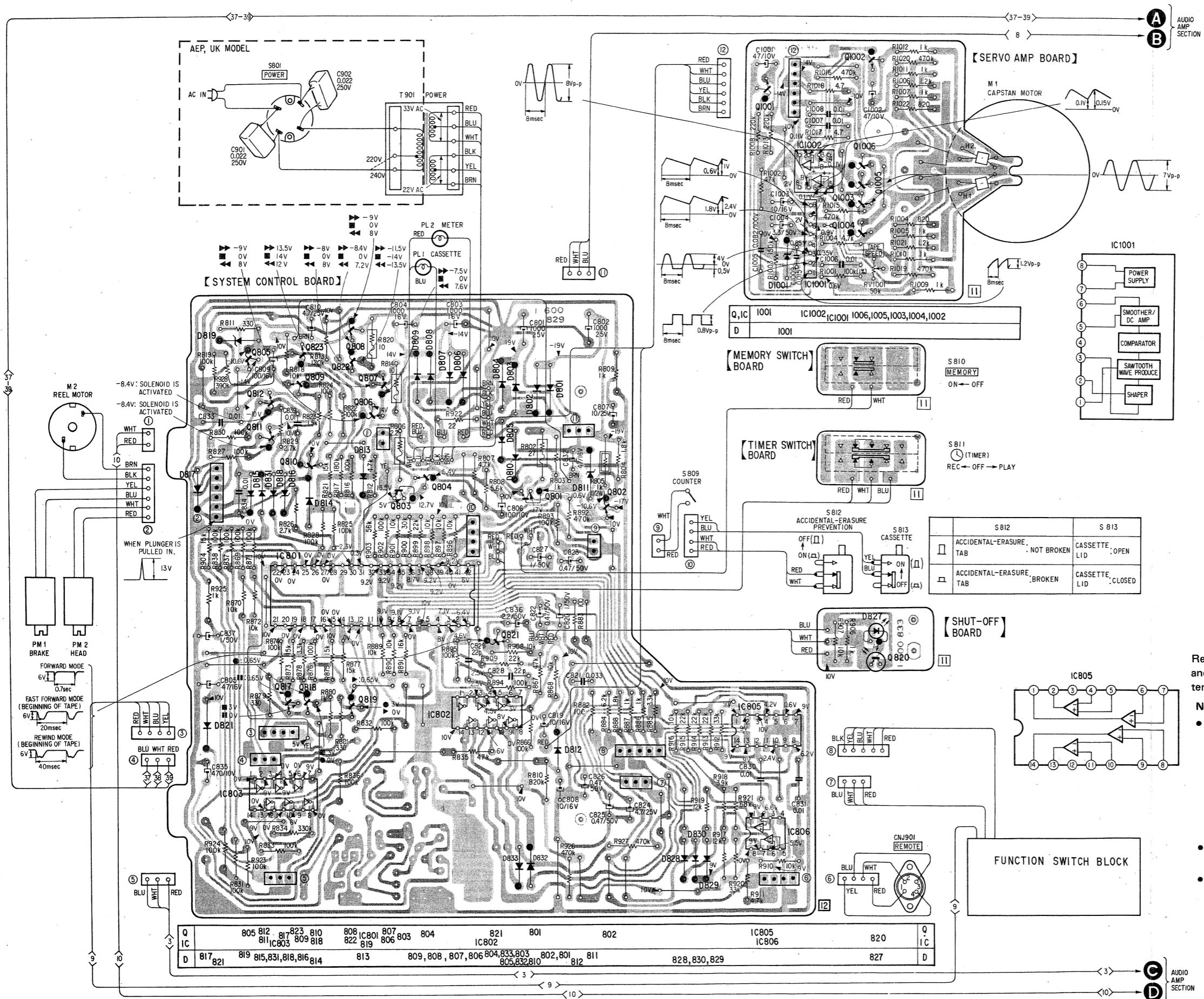
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

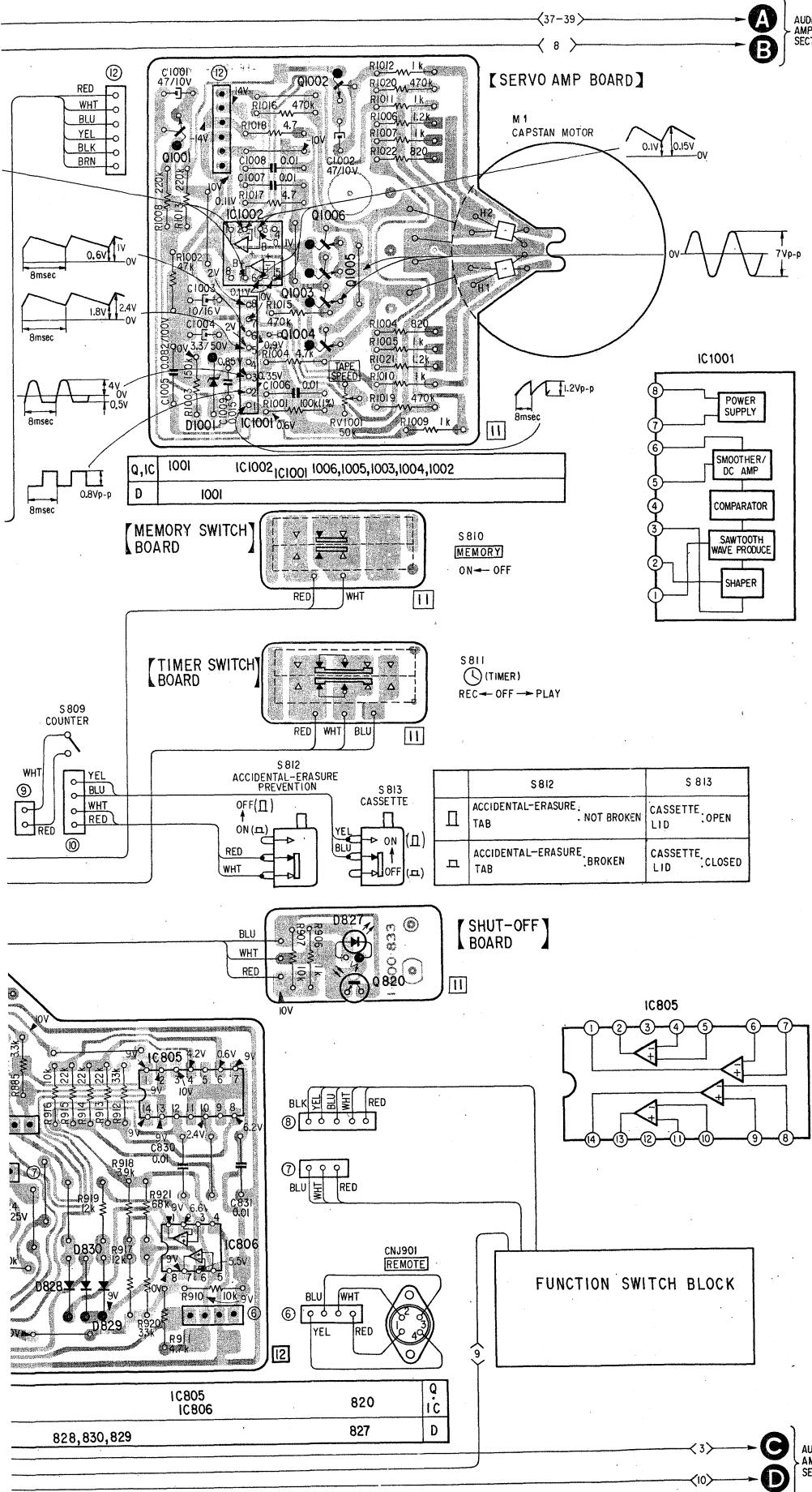
Note: Les composants identifiés par un trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



TC-K81 TC-K81







Refer to page 19 for replacement semiconductors and page 25 for voltages and waveforms at the terminal of IC801.

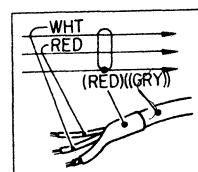
Note:

- Color code of sleeving over the end of the jacket.
- : B+ pattern.
- : B- pattern
- no mark: STOP
- ▶ : FORWARD
- ▶▶ : FAST FORWARD
- ◀ : REWIND
- : RECORD
- : REC MUTE
- : PAUSE
- : STOP

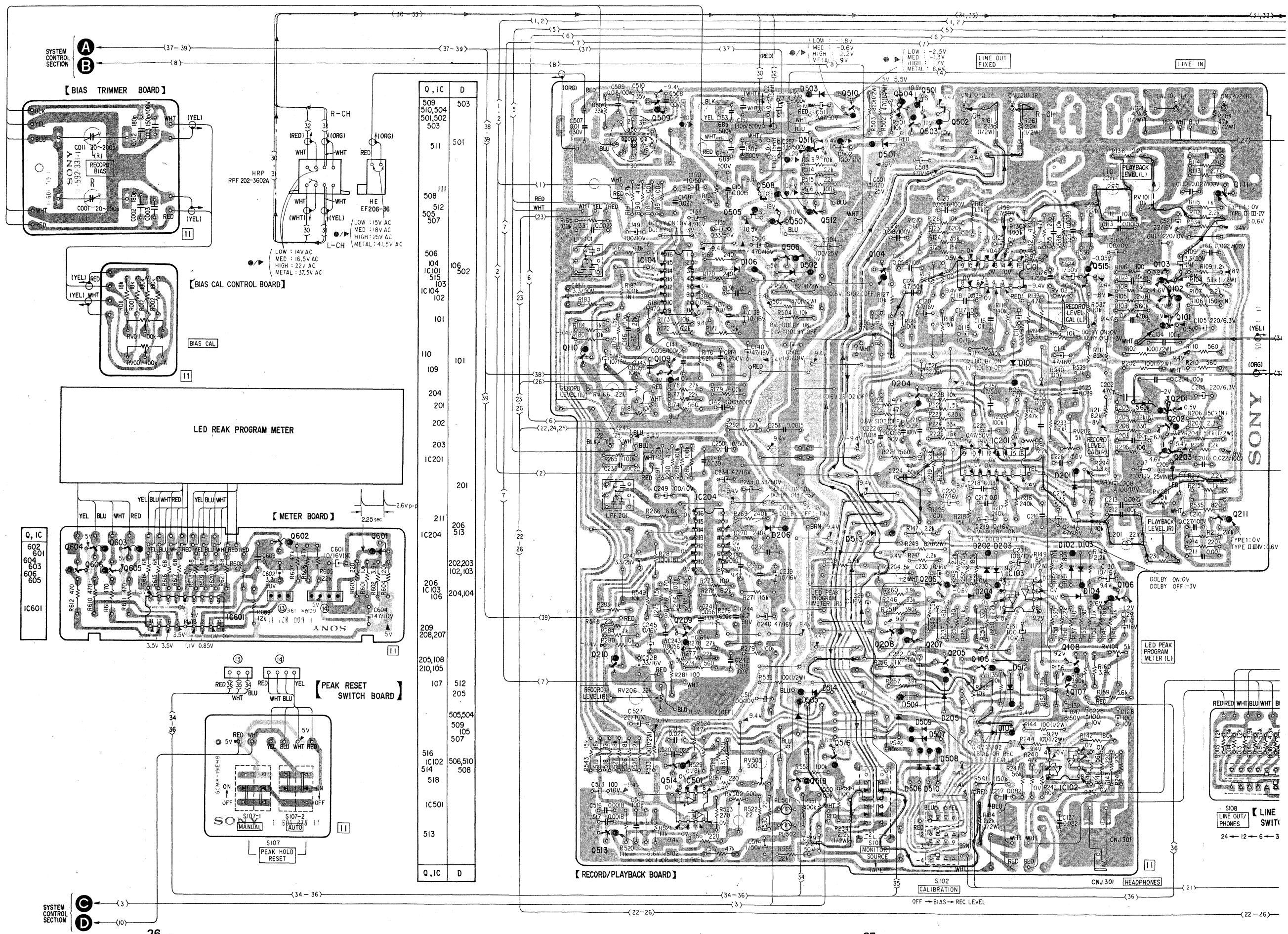
Voltages and Waveforms at the Terminals of IC801.

Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage
①		⑯		⑲	10 Vdc
②		⑯		⑳	Fast Forward Mode
③		⑯		⑳	Fast Forward button is pushed.
④ to ⑥	10 Vdc	⑯		㉑	Rewind Mode
⑦		⑯		㉑	Forward button is pushed.
⑧		⑯		㉒	Record/Forward Mode
⑨		⑯		㉒	Record/Forward button is pushed.
⑩		⑯		㉒	Record Muting or Pause button is pushed.
⑪	10 Vdc	⑯		㉓	Fast Forward or Rewind Mode or Record/Forward/Pause Mode
⑫ ⑬		⑯		㉓	Forward Mode
⑭		⑯		㉔	Fast Forward or Rewind Mode or Record/Forward/Pause Mode
⑮		⑯		㉔	Forward or Record Mode
⑯		⑯		㉔	Record button is pushed.
⑰		⑯		㉔	Forward or Record Mode
⑱		⑯		㉔	Fast Forward or Rewind Mode or Record/Forward/Pause Mode
⑲		⑯		㉔	Forward Mode
⑳		⑯		㉔	Fast Forward or Rewind Mode or Record/Forward/Pause Mode
㉑		⑯		㉔	Forward or Fast Forward or Rewind button is pushed.
㉒		⑯		㉔	Fast Forward button is pushed.
㉓		⑯		㉔	Forward button is pushed.
㉔		⑯		㉔	Stop button is pushed or the cassette lid is open.
㉕		⑯		㉔	Forward button is pushed.
㉖		⑯		㉔	Fast Forward button is pushed.
㉗		⑯		㉔	• S810 (MEMORY): ON
㉘		⑯		㉔	Tape counter is at 999 in rewind mode.
㉙		⑯		㉔	• S811 (timer): PLAY
㉚		⑯		㉔	When the accidental erasure prevention tab is broken: 0 V
㉛		⑯		㉔	When the accidental erasure prevention tab is not broken: 10 V
㉜		⑯		㉔	0 Vdc

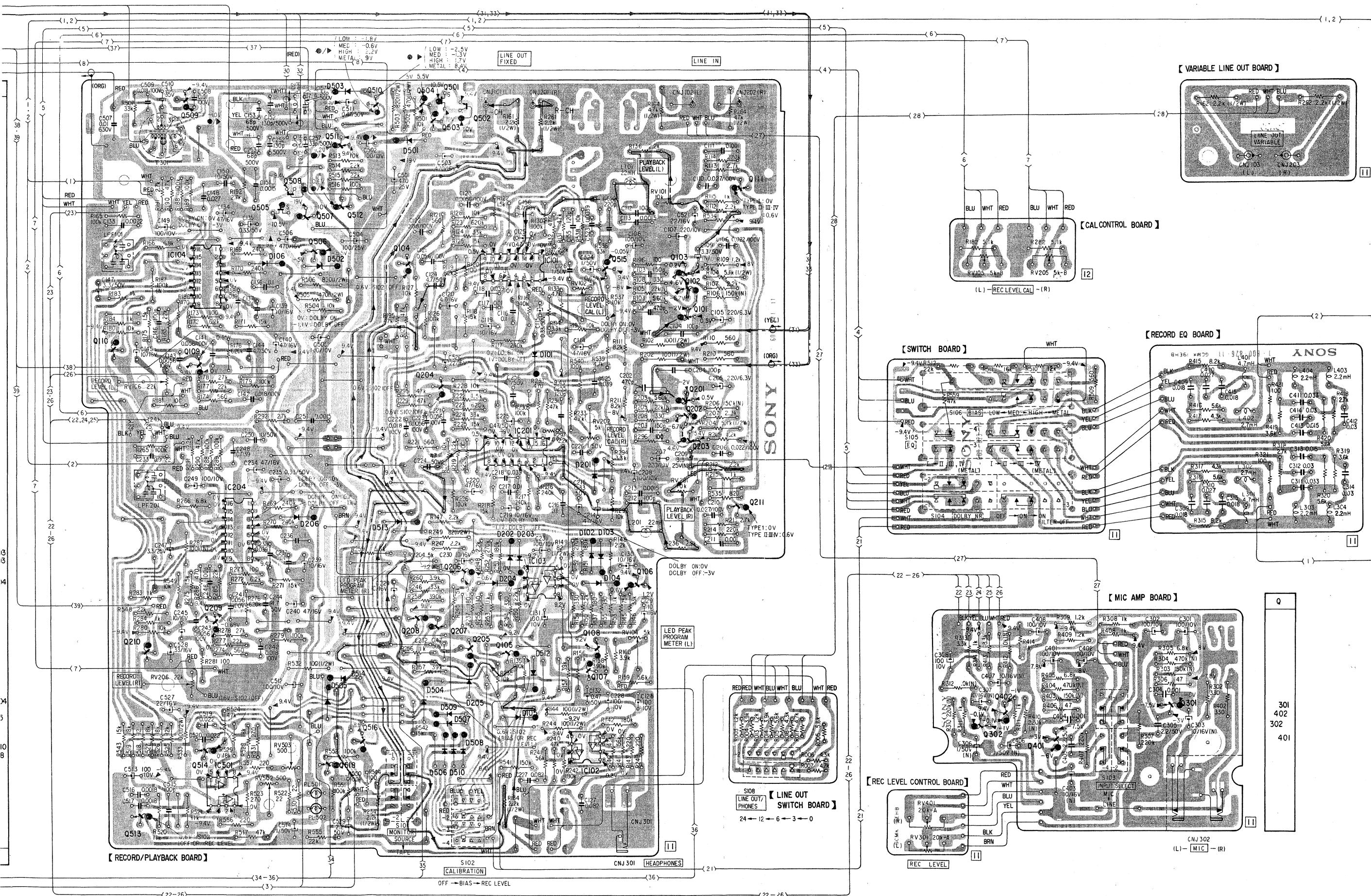
- Color code of sleeves over the end of the jacket.



- : B + pattern
 - : B - pattern
 - Signal path
 - : L-CH
 - - → : R-CH
 - : Common
 - no mark: STOP
 - ▶ : FORWARD
 - ▶▶ : FAST FORWARD
 - ◀◀ : REWIND
 - : RECORD
 - : REC MUTE
 - : PAUSE
 - : STOP



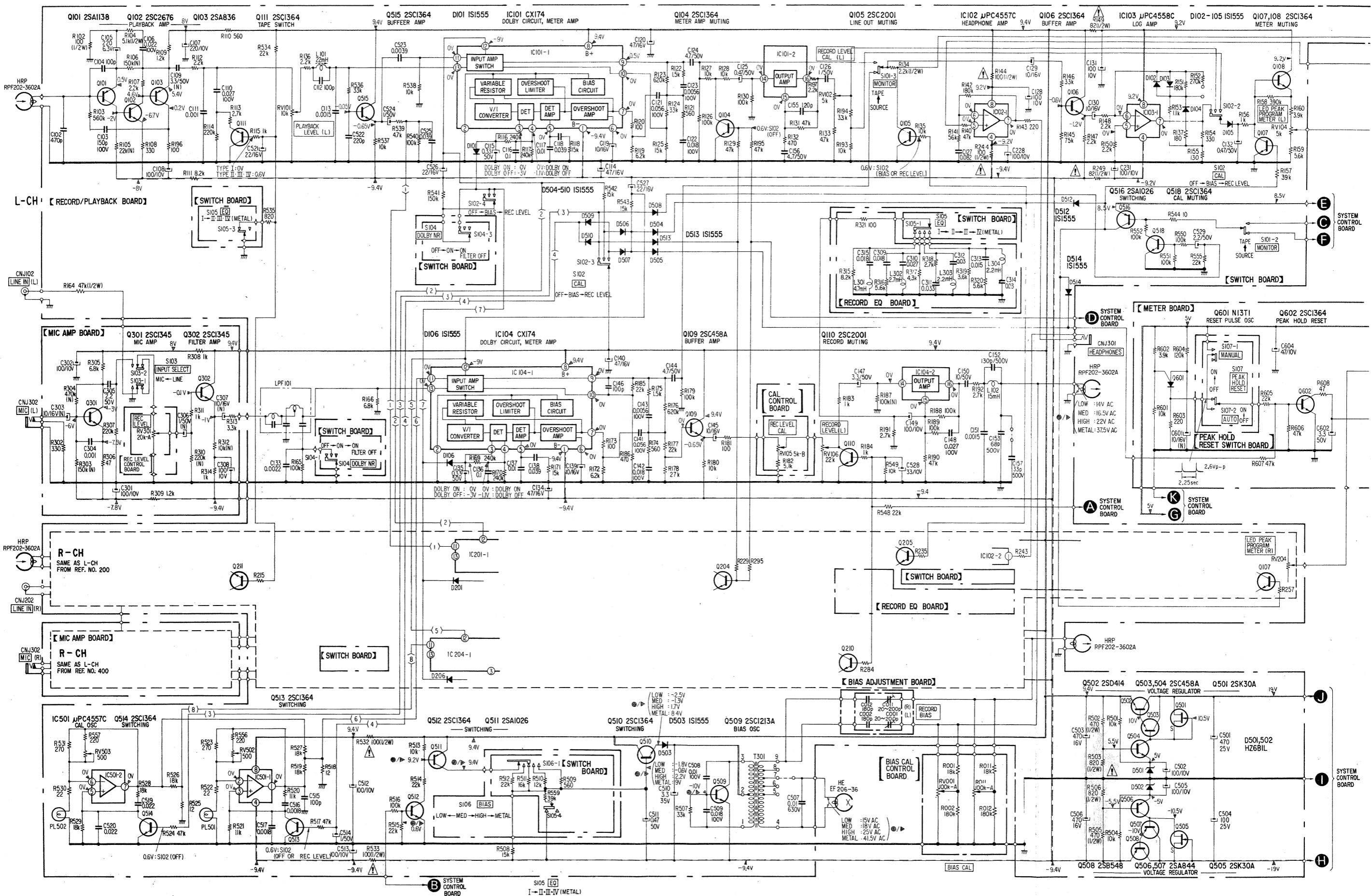
lacement semiconductors and IC block diagrams.

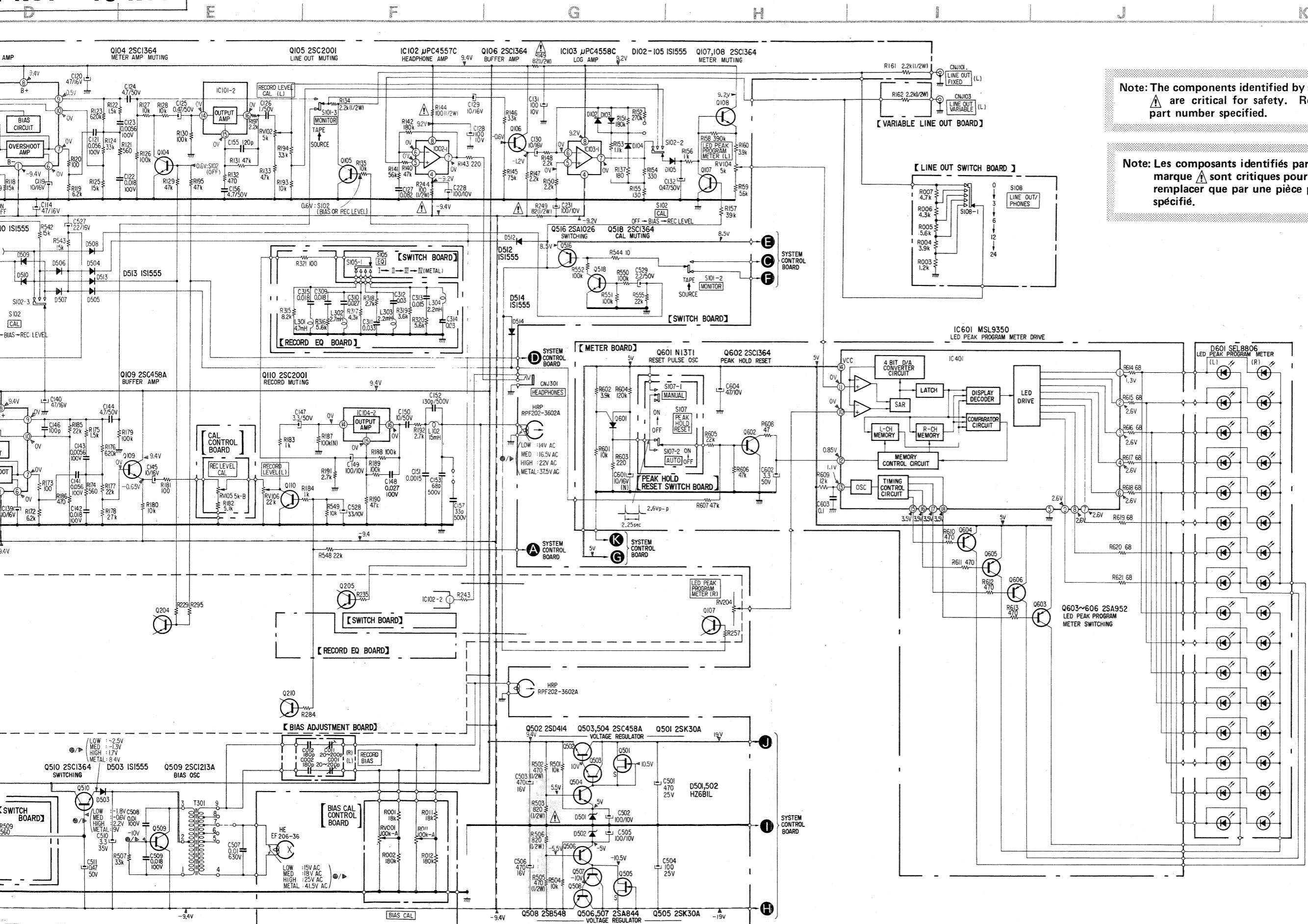


4-4. SCHEMATIC DIAGRAM – Audio Amp Section –

See page 32 for the notes.

TC-K81 TC-K81





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.

— Audio Amp Section —

Note:

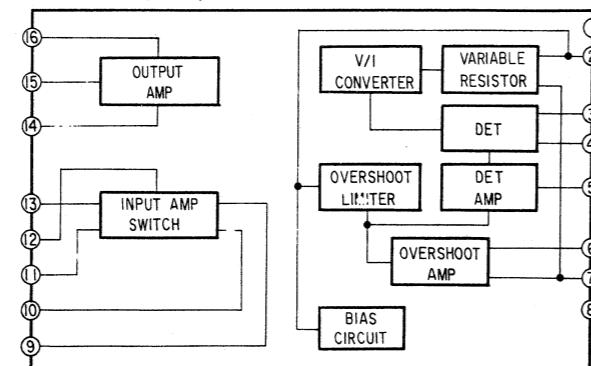
- Components for right channel have same values as for left channel. Reference numbers are coded from 200 and 400.
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$
- 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted.
- $\text{k}\Omega : 1000 \Omega, \text{M}\Omega = 1000 \text{k}\Omega$
-  : fusible resistor.
- (N) : low-noise.
- : B+ bus.
- : B- bus.
- [] : panel designation.
- [] : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20 $\text{k}\Omega/\text{V}$).

no mark: STOP
 ▶ : FORWARD
 ▶▶ : FAST FORWARD
 ◀◀ : REWIND
 ● : RECORD
 ○ : REC MUTE
 ■■ : PAUSE
 ■ : STOP

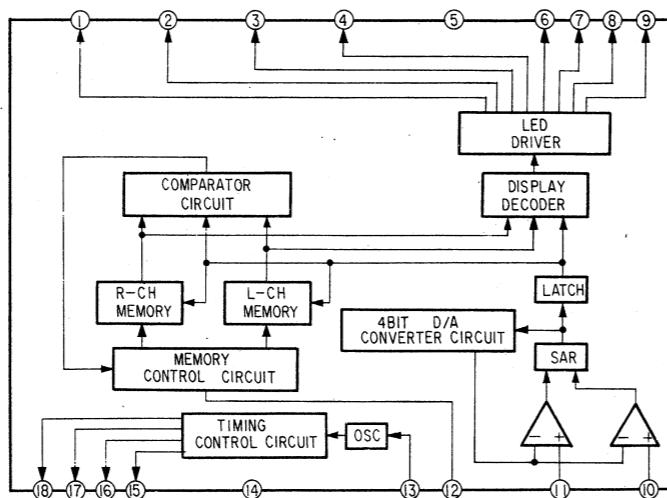
- AC voltage readings in the bias oscillator circuit are taken with a VTVM.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S101-1 to 101-4	MONITOR	TAPE
S102-1 to 101-4	CALIBRATION	OFF
S103-1 to 103-4	INPUT SELECT	LINE
S104-1 to 104-3	DOLBY NR	OFF
S105-1 to 105-4	EQ	I
S106-1, 2	BIAS	MED
S107-1	MANUAL	OFF
S107-2	AUTO	ON

IC101, 104, 201, 204



IC601

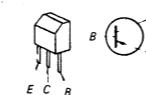


— Audio Amp Section —

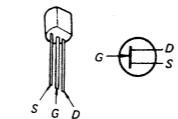
• Replacement Semiconductors

For replacement, use semiconductors except in ().

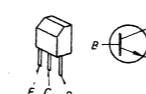
Q101, 201 : 2SA1138



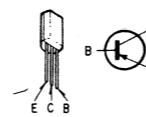
Q501, 505 : 2SK30A



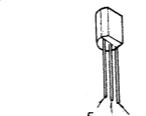
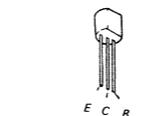
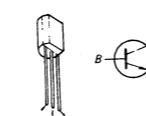
Q102, 202 : 2SC2676



Q103, 203 : 2SA872-E



(2SA836)

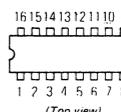
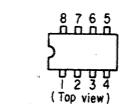
Q104, 204
Q106-108
Q206-208
Q111, 211
510, 512-515
518, 602 : 2SC1364Q105, 205
Q110, 210
Q301, 401
Q302, 402 : 2SC2001
(2SC1345)Q109, 209
Q503, 504 : 2SC1362

(2SC458A)

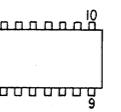
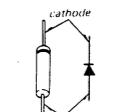
Q601 : N13TI



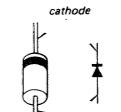
(2SA952)

IC101, 201
IC104, 204 : CX174IC102, 202
IC501
IC103, 203 : μPC4557C
μPC4558C

IC601 : MSL9350

D101-106
201-206
503-510
512-514 : 1S1555

D501, 502 : HZ6B2L (HZ6B1L)

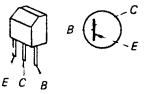


SECTION 5 EXPLODED VIEWS

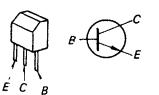
— Audio Amp Section —**• Replacement Semiconductors**

For replacement, use semiconductors except in ().

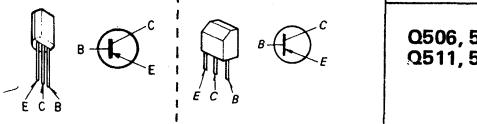
Q101, 201 : 2SA1138



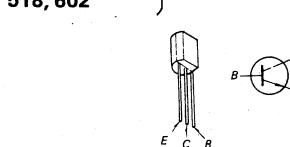
Q102, 202 : 2SC2676



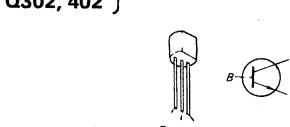
Q103, 203 : 2SA872-E (2SA836)



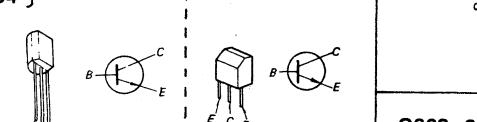
Q104, 204
Q106-108
Q206-208
Q111, 211
510, 512-515
518, 602



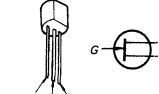
Q105, 205
Q110, 210
Q301, 401
Q302, 402



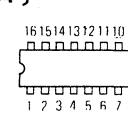
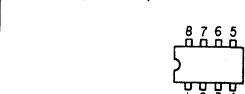
Q109, 209 : 2SC1362 (2SC458A)



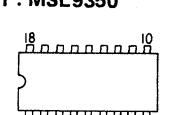
Q501, 505 : 2SK30A



IC101, 201 IC104, 204 : CX174

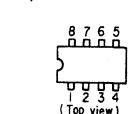
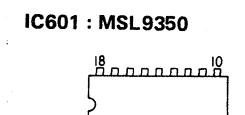
Q502 : 2SD414
letter side

IC601 : MSL9350

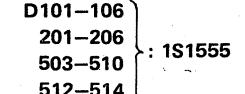
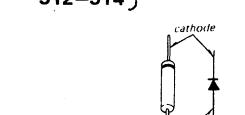


IC102, 202 : μPC4557C

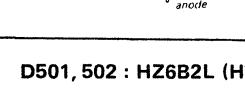
IC501 IC103, 203 : μPC4558C

Q506, 507 : 2SA1027R (2SA844)
Q511, 516 : 2SA1027R (2SA1026)

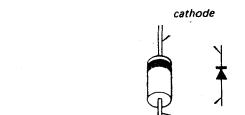
Q508 : 2SB548

D101-106
201-206
503-510
512-514 : 1S1555

Q509 : 2SC1475 (2SC1213A)



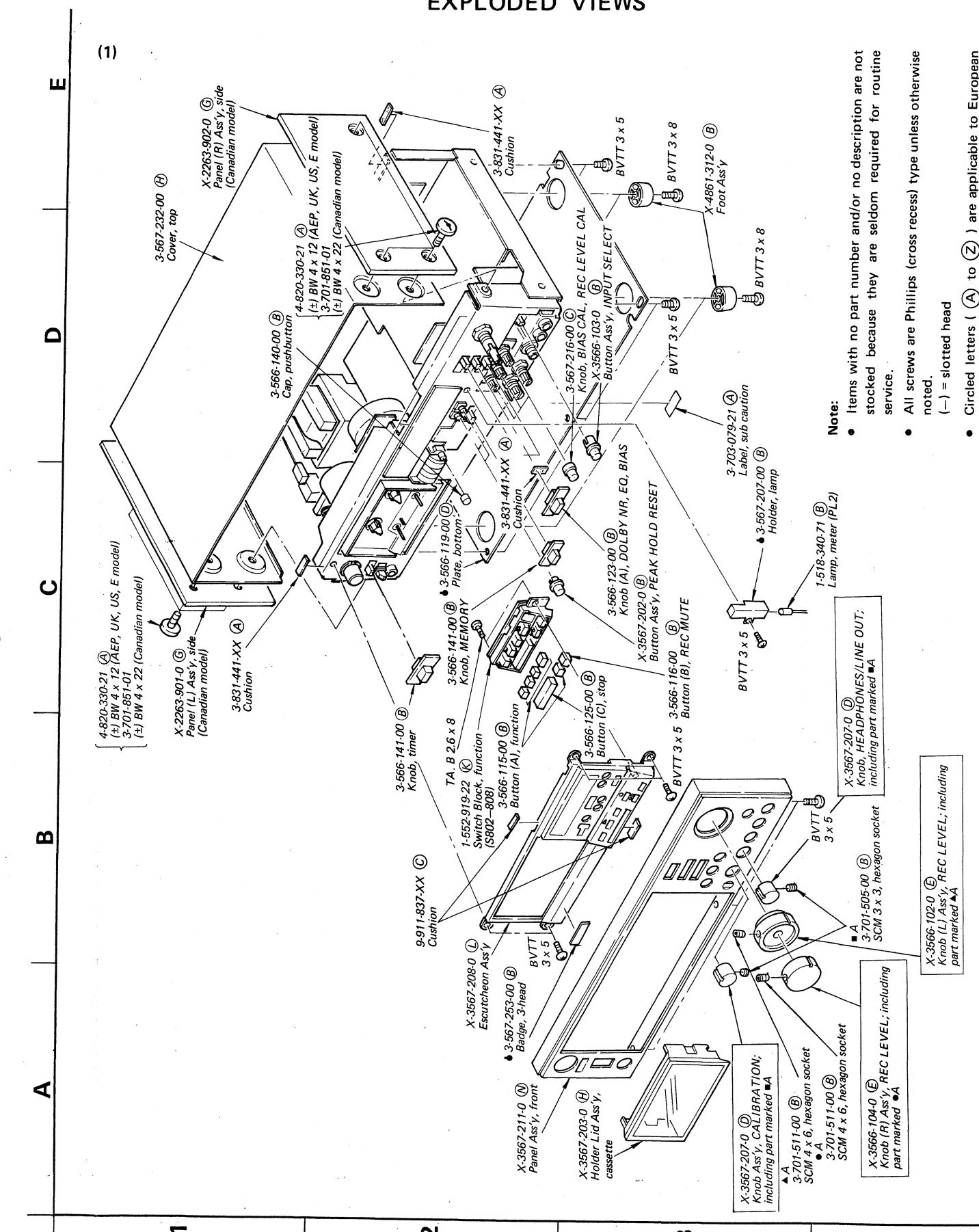
D501, 502 : HZ6B2L (HZ6B1L)



Q601 : N13TI

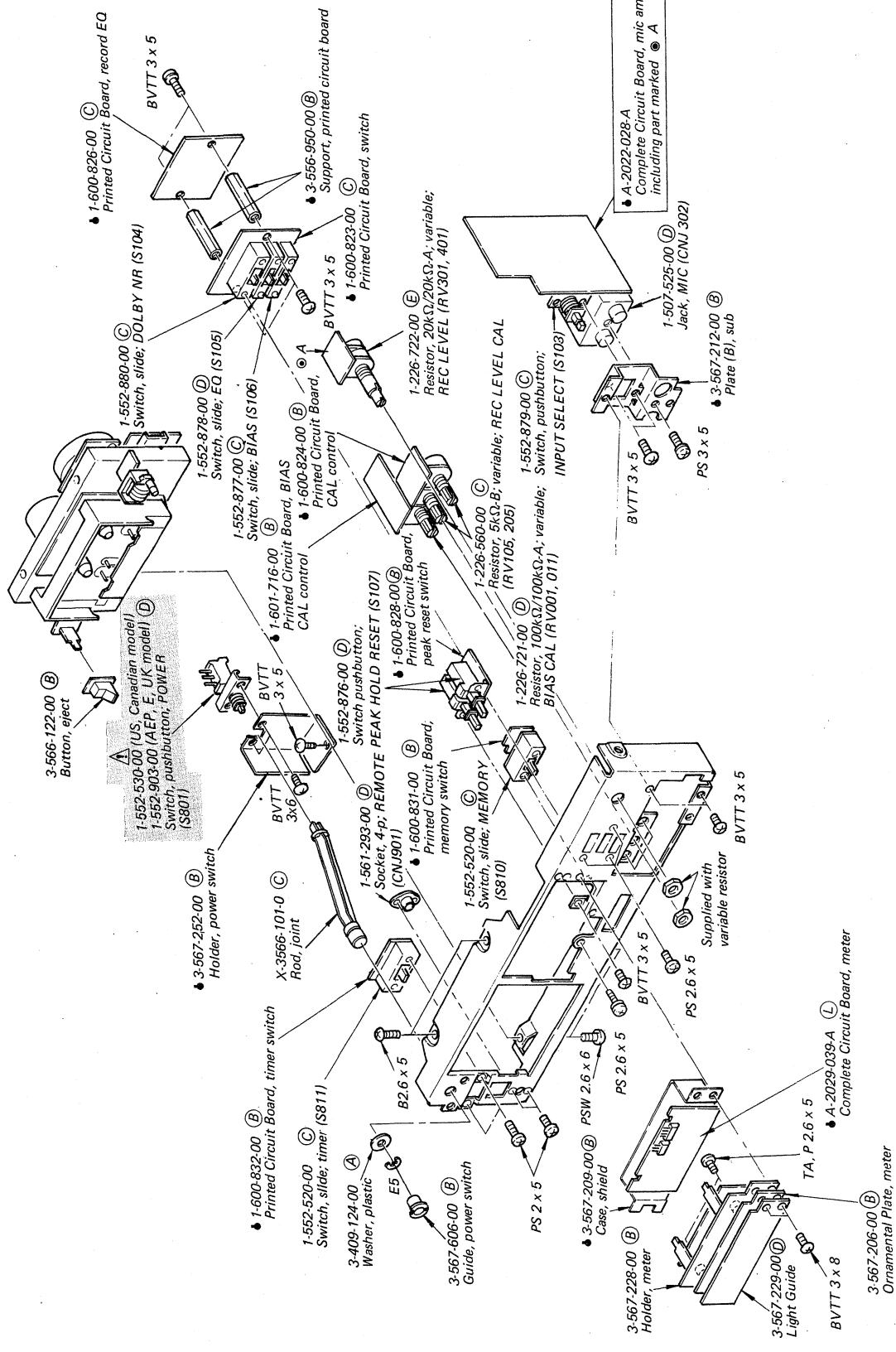


Q603-606 : 2SA952



- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- Circled letters (A) to (Z) are applicable to European models only.

A B C D E



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

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

A B C D E

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- Circled letters (Ⓐ to Ⓛ) are applicable to European models only.

• 3-556-950-00 Ⓛ
Support, printed circuit board

• 3-567-234-00 (AEP, UK model) Ⓜ

3-567-612-00 (E model)

3-567-269-00 (US, Canadian model)

Panel, rear

• 1-601-715-00 Ⓛ
Printed Circuit Board, Bias trimmer

W3
PTPNW H 3 x 6

• 3-446-518-00 (E model)

3-446-356-00 (US, Canadian model)

1-446-357-00 (AEP, UK model) Ⓛ

Transformer, power (T5001)

• 3-567-233-00 Ⓛ
Plate, left side

• A-2019-097-A Ⓛ
Complete Circuit Board, system control

• 2-259-121-00 Ⓛ
Screw, transistor

BVTT 3 x 5

• 1-526-576-23 Ⓛ
Voltage Selector

(E model)

• 1-600-826-00 Ⓛ
Heat Sink

BVTT 3 x 5

• 1-558-449-00 Ⓛ
Printed Circuit Board, variable line out

BVTT 3 x 5

• 1-526-576-23 Ⓛ
Variable line out

BVTT 3 x 5

• 1-507-531-00 Ⓛ
JACK, LINE IN, LINE OUT (fixed)

(CNJ101, 102, 201, 202)

• 1-567-201-00 Ⓛ
Case (A), shield

• 1-507-561-21 Ⓛ
Jack, LINE OUT (variable) (CNJ103, 203)

• 3-567-230-00 Ⓛ
Plate, right side

• 1-507-553-00 Ⓛ
Jack, HEADPHONES (CM301)

• 1-602-127-00 Ⓛ
Printed Circuit Board, LINE OUT SW

• 1-553-254-00 Ⓛ
Switch, rotary, BVT

3 x 6

• 1-552-907-00 Ⓛ
Switch, slide; MONITOR (S101)

• 3-567-224-00 Ⓛ
Plate, center

• 9-911-841-XX Ⓛ
Cushion, front

• 9-919-863-XX Ⓛ
Plate, insulator

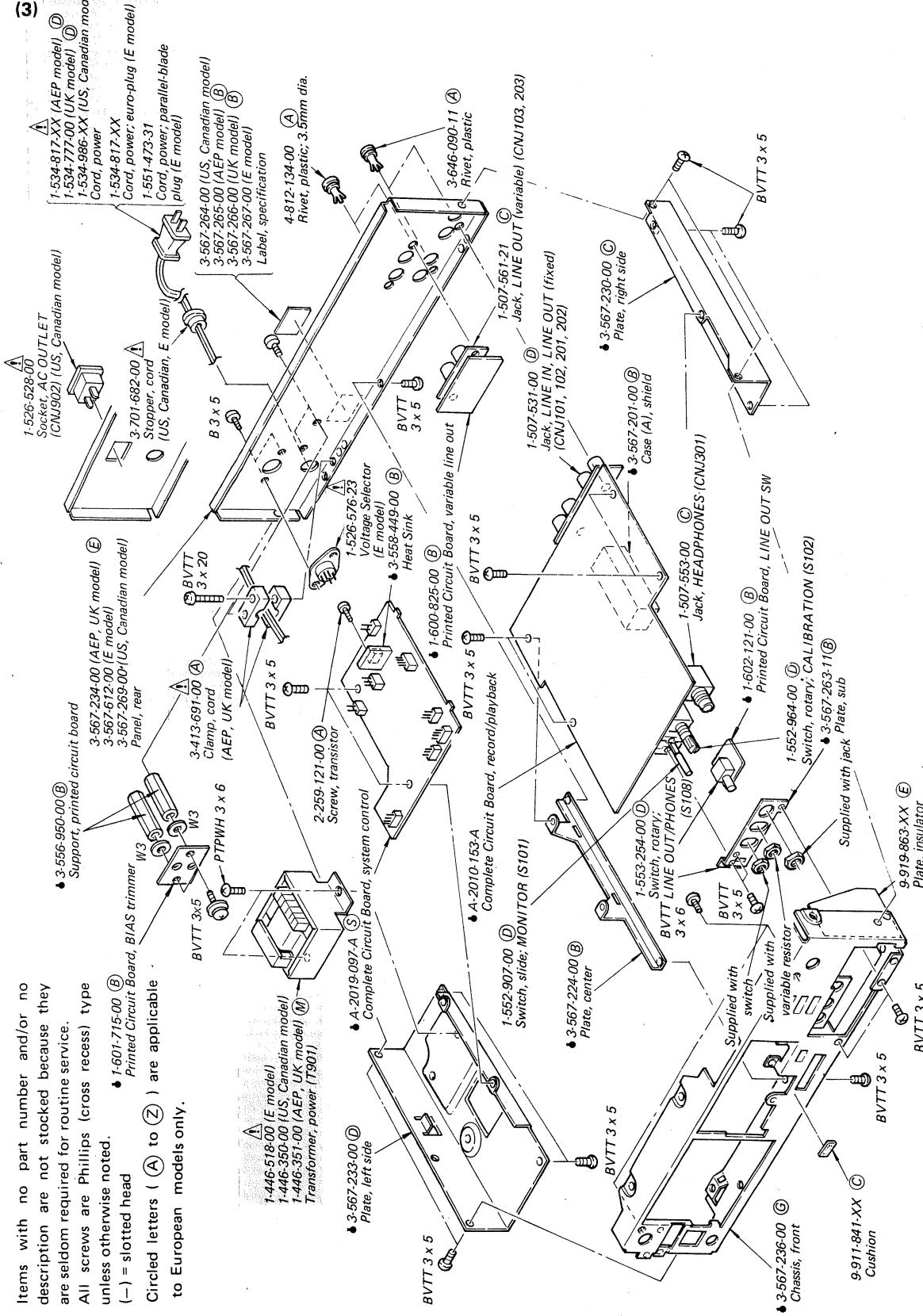
• 1-567-263-11 Ⓛ
Switch, rotary; CALIBRATION (S102)

• 3-567-236-00 Ⓛ
Supplied with switch

• 1-622-127-00 Ⓛ
Supplied with variable resistor

• 1-552-964-00 Ⓛ
Supplied with jack Plate, sub

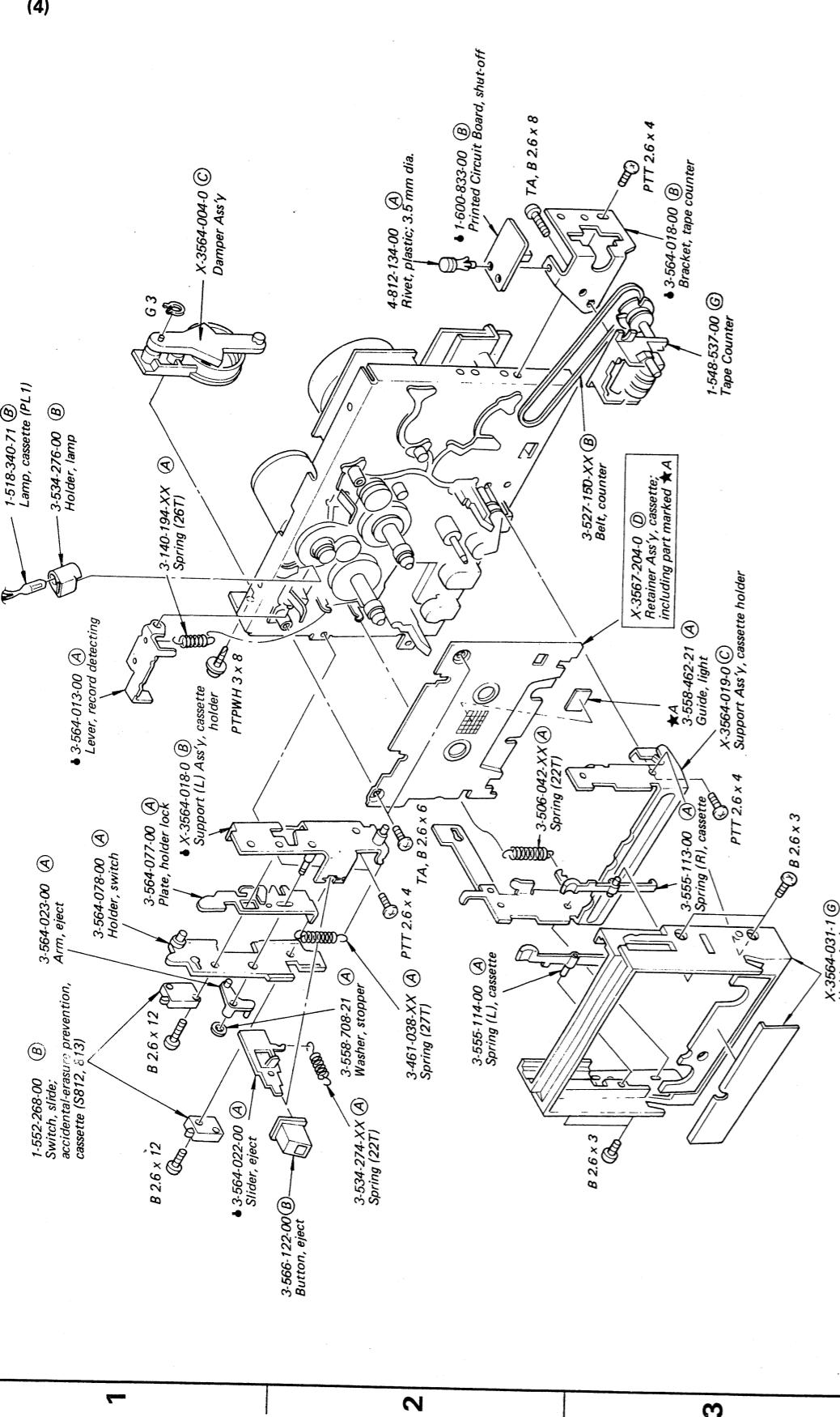
• 3-567-263-11 Ⓛ
Supplied with jack Plate, sub



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

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

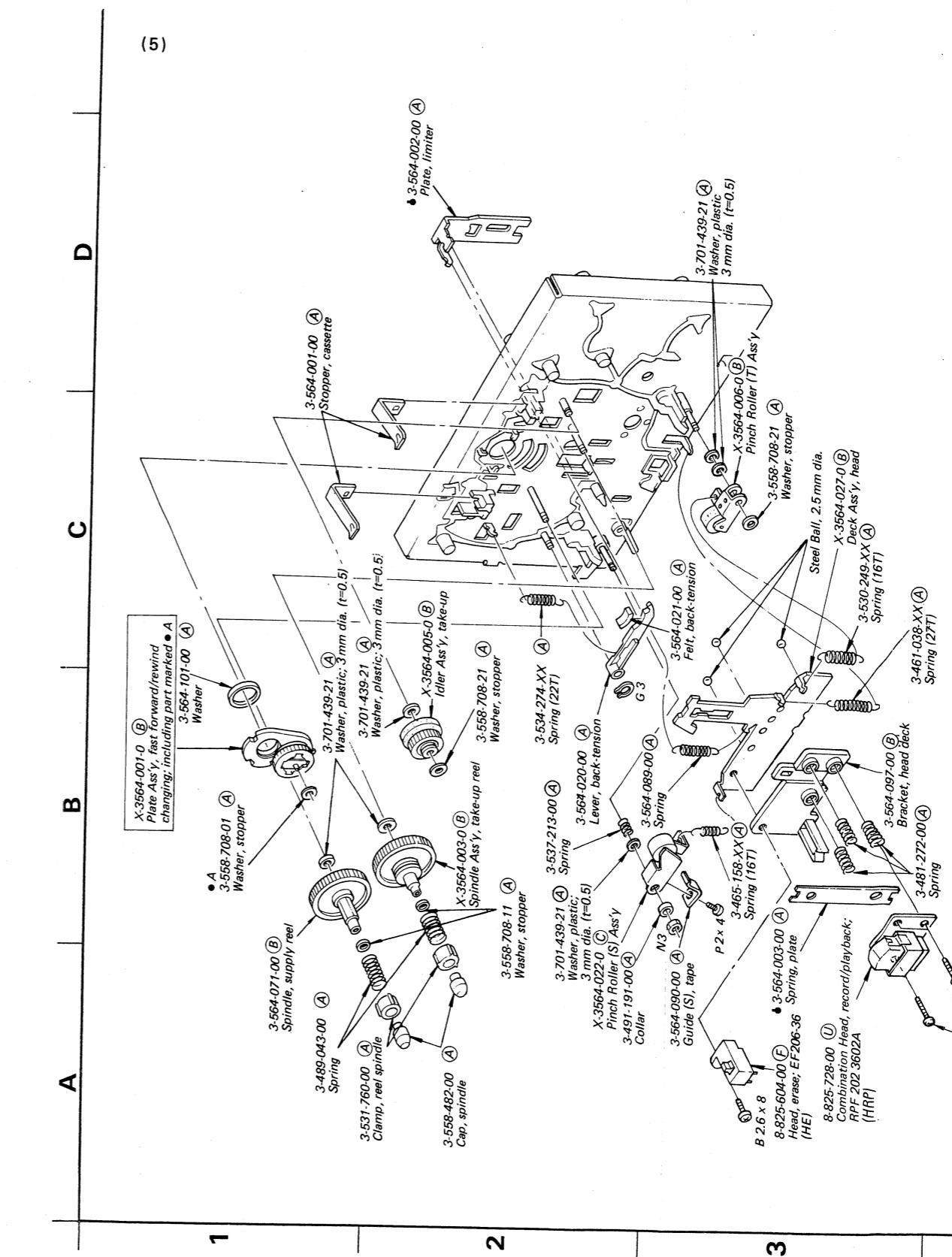
TC-K81



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.

- (□○T) shows the number of coils in spring.
Circled letters (A) to (Z) are applicable
to European models only.



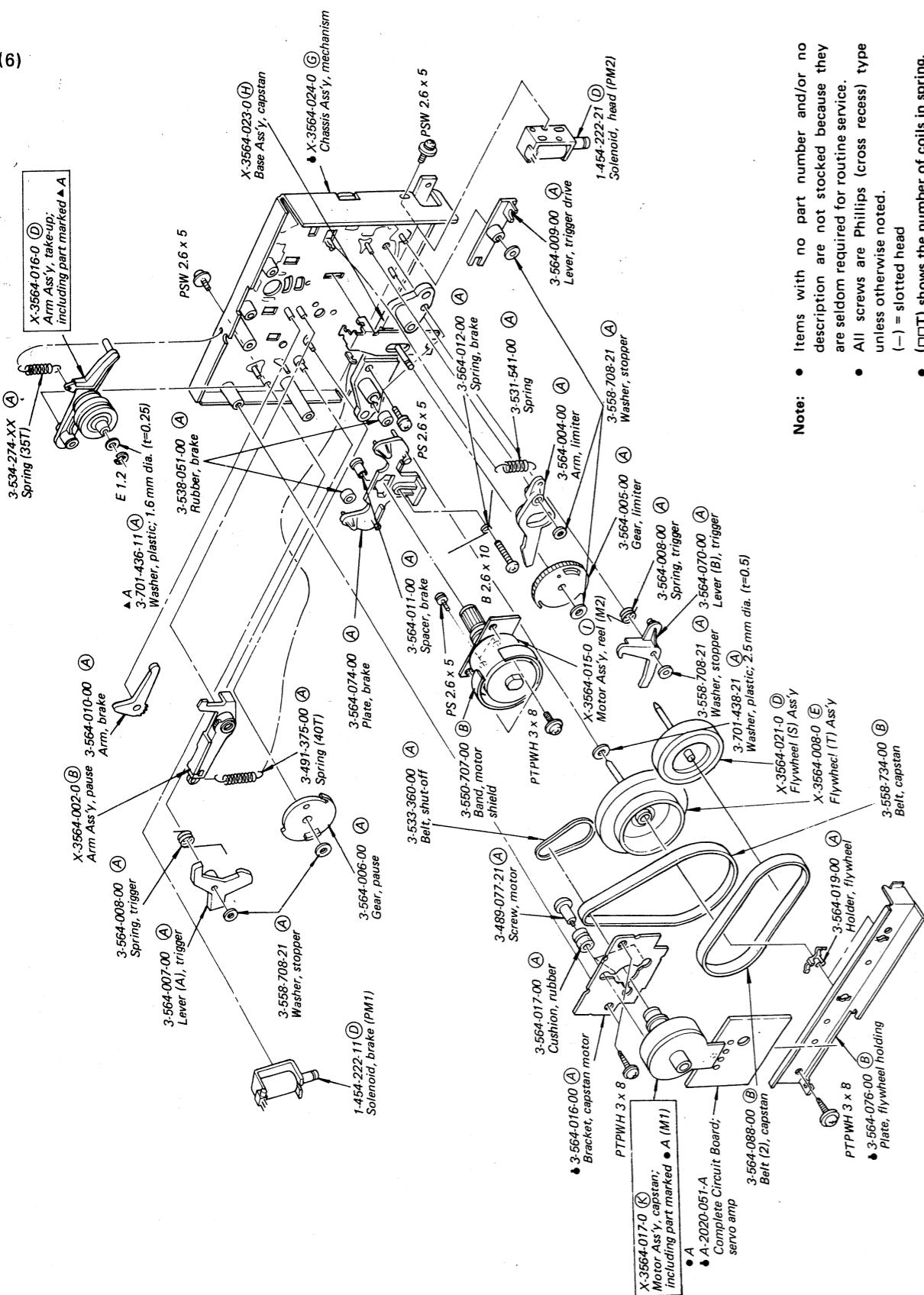
Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
 (-) = slotted head

- (□○T) shows the number of coils in spring.
Circled letters (A) to (Z) are applicable
to European models only.

SECTION 6

ELECTRICAL PARTS LIST



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.

(—) = slotted head
 (□□T) shows the number of coils in spring.

- Circled letters (A) to (Z) are applicable to Figs. 1 through 10.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
SEMICONDUCTORS								
Transistors								
Q101, 201	8-729-113-82	(K) 2SA1138	Q811, 812	8-760-413-10	(B) 2SC1475			
Q102, 202	8-729-167-62	(B) 2SC2676	Q817-819	8-729-663-47	(C) 2SC1364			
Q103, 203	8-729-387-28	(B) 2SA872-E	Q820	8-729-101-03	(B) PH103			
Q104, 204	8-729-663-47	(C) 2SC1364	Q821	8-729-663-47	(C) 2SC1364			
Q105, 205	8-729-100-13	(B) 2SC2001	Q822	8-729-154-83	(B) 2SB548			
Q106-108	8-729-663-47	(C) 2SC1364	Q823	8-729-663-47	(C) 2SC1364			
Q206-208	8-729-665-47	(B) 2SC1362	Q1001, 1002	8-729-663-47	(C) 2SC1364			
Q109, 209	8-729-665-47	(B) 2SC1362	Q1003	8-760-335-10	(B) 2SC1474			
Q110, 210	8-729-100-13	(B) 2SC2001	Q1004	8-729-468-43	(C) 2SA684			
Q111, 211	8-729-663-47	(C) 2SC1364	Q1005	8-760-335-10	(C) 2SC1474			
Q301, 302	8-729-334-58	(B) 2SC1345	Q1006	8-729-468-43	(C) 2SA684			
Q401, 402	8-729-203-04	(B) 2SK30A	ICs					
Q501	8-729-141-43	(B) 2SD414	IC101, 201	8-759-101-74	(F) CX174			
Q502	8-729-141-43	(B) 2SD414	IC102, 202	8-759-145-57	(D) μPC4557C			
Q503, 504	8-729-665-47	(B) 2SC1362	IC103, 203	8-759-145-58	(D) μPC4558C			
Q505	8-729-203-04	(B) 2SK30A	IC104, 204	8-759-101-74	(F) CX174			
Q506, 507	8-729-612-77	(B) 2SA1027R	IC501	8-759-145-57	(D) μPC4557C			
Q508	8-729-154-83	(B) 2SB548	IC601	8-759-993-50	(K) MSL9350			
Q509	8-760-413-10	(B) 2SC1475	IC801	8-759-147-42	(L) μPD547C-0			
Q510	8-729-663-47	(B) 2SC1364	IC802, 803	8-759-904-69	(C) MSM4069			
Q511	8-729-612-77	(B) 2SA1027R	IC805	8-759-133-90	(F) μPC339C			
Q512-515	8-729-663-47	(B) 2SC1364	IC806	8-759-145-58	(D) μPC4558C			
Q516	8-729-612-77	(B) 2SA1027R	IC1001	8-750-690-00	(D) CX069			
Q518	8-729-663-47	(B) 2SC1364	IC1002	8-759-145-58	(D) μPC4558C			
Q601	8-729-101-31	(B) N13T1	Diodes					
Q602	8-729-663-47	(B) 2SC1364	D101-106	8-719-815-55	(B) 1S1555			
Q603-606	8-729-195-23	(B) 2SA952	D201-206	8-719-910-65	(B) HZ6B2L			
Q801	8-729-180-93	(B) 2SD809	D503-510	8-719-815-55	(B) 1S1555			
Q802	8-729-612-77	(B) 2SA1027R	D512-514	1-800-822-11	(K) SEL8806			
Q803	8-729-154-83	(B) 2SB548	D601	8-719-200-02	(B) 10E2			
Q804	8-729-663-47	(C) 2SC1364	D801-809	8-719-910-15	(B) HZ11B2L			
Q805	8-729-154-83	(B) 2SB548	D810, 811	8-719-815-55	(B) 1S1555			
Q806	8-729-663-47	(C) 2SC1364	D812, 813	8-719-200-02	(B) 10E2			
Q807	8-729-141-43	(B) 2SD414	D814	8-719-815-55	(B) 1S1555			
Q808	8-729-612-77	(B) 2SA1027R	D815	8-719-910-23	(B) HZ12A3L			
Q809	8-729-663-47	(C) 2SC1364	D816	8-719-910-23	(B) HZ12A3L			
Q810	8-729-468-43	(C) 2SA684						

Note: Circled letters (A to Z) are applicable to European models only.

Note: The components identified by shading and marked with the  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: Circled letters (Ⓐ to Ⓡ) are applicable to European models only.

Ref. No.	Part No.	Description
D817	Ⓐ8-719-815-55	(B) 1S1555
D818	8-719-910-23	(B) HZ12A3L
D819	8-719-910-25	(B) HZ12B2L
D821	8-719-200-02	(B) 10E2
D828-831	8-719-815-55	(B) 1S1555
D824	8-719-313-31	(B) SEL1331G
D825	8-719-311-12	(B) SEL1112R
D826	8-719-317-41	(B) SEL1741Y
D827	8-719-101-11	(B) SR110
D832, 833	8-719-815-55	(B) 1S1555
D1001	8-719-910-65	(B) HZ6B2L
CAPACITORS		
All capacitors are in μ F and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics and tantalum. Common capacitors are omitted. Refer to the lists on page 44 and 45 for their part numbers.		
C001, 011	1-141-010-XX	(B) Trimmer
C102, 202	1-161-319-00	(A) 470p
C103, 203	1-107-304-00	(B) 150p
C106, 206	1-130-305-00	(B) 0.022
C109, 209	1-123-231-00	(B) 3.3
C110, 210	1-130-307-00	(B) 0.027
C111, 211	1-161-323-00	(A) 0.001
C115, 215	1-123-286-00	(B) 0.33
C121, 221	1-130-341-00	(B) 0.056
C122, 222	1-130-340-00	(B) 0.018
C123, 223	1-130-339-00	(B) 0.0056
C124, 224	1-123-232-00	(B) 4.7
C126, 226	1-123-228-00	(B) 1
C135, 235	1-123-286-00	(B) 0.33
C141, 241	1-130-341-00	(B) 0.056
C142, 242	1-130-340-00	(B) 0.018
C143, 243	1-130-339-00	(B) 0.0056
C144, 244	1-123-232-00	(B) 4.7
C147, 247	1-123-231-00	(B) 3.3
C148, 248	1-130-307-00	(B) 0.027
C150, 250	1-123-234-00	(B) 10
C156, 256	1-123-232-00	(B) 4.7
C303, 403	1-121-651-00	(A) 10

Note: Circled letters (Ⓐ to Ⓡ) are applicable to European models only.

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

Ref. No.	Part No.	Description
C304, 404	1-161-323-00	(A) 0.001
C305, 405	1-123-230-00	(B) 2.2
		50V elect (nonpolarized)
C306, 406	1-123-228-00	(B) 1
		50V elect (nonpolarized)
C507	1-130-338-00	(B) 0.01
C508	1-130-297-00	(B) 0.01
C509	1-130-303-00	(B) 0.018
C522	1-161-315-00	(A) 220p
C530, 531	1-131-450-00	(C) 1
C601	1-121-651-00	(A) 10
C801, 802	Ⓐ1-123-337-00	(B) 1000
C803, 804	Ⓐ1-123-324-00	(B) 1000
C901	Ⓐ1-130-232-00	(B) 0.22
	Ⓐ1-130-456-00	(C) 0.022
C1001, 1002	1-123-306-00	(B) 47
C1003	1-123-316-00	(B) 10
C1004	1-123-354-00	(B) 3.3
C1005	1-130-134-00	(B) 0.082
	1-130-232-00	(B) 0.22
	1-130-456-00	(C) 0.022
RESISTORS		
All resistors are in ohms. Common $\frac{1}{4}$ W carbon resistors are omitted. Refer to the list on page 46 for their part numbers. $k\Omega$: 1000 Ω , $M\Omega$: 1000 $k\Omega$		
R102, 202	1-214-840-00	(B) 100
R104, 204	1-214-881-00	(B) 5.1k
R106, 206	1-214-781-00	(A) 150k
R112, 212	1-214-737-00	(A) 2.2k
R113, 213	1-214-739-00	(A) 2.7k
R124, 224	1-214-765-00	(A) 33k
R125, 225	1-214-757-00	(A) 15k
R134, 234	1-214-872-00	(A) 2.2k
R136, 236	1-214-737-00	(A) 2.2k
R144, 244	Ⓐ1-244-849-00	(A) 100
R149, 249	Ⓐ1-244-847-00	(A) 82
R161, 261	1-214-872-00	(B) 2.2k
R162, 262	1-214-872-00	(B) 2.2k
R164, 264	1-214-905-00	(B) 47k
R177, 277	1-214-761-00	(A) 22k
R178, 278	1-214-763-00	(A) 27k
R180, 280	1-214-753-00	(A) 10k
R188, 288	1-214-777-00	(A) 100k
R189, 289	1-214-777-00	(A) 100k

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.

- Items marked “●” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	Part No.	Description
R191, 291	1-214-737-00	(A) 2.2k
		metal oxide
R192, 292	1-214-739-00	(A) 2.7k
		metal oxide
R312, 412	1-214-753-00	(A) 10k
		metal oxide
R313, 413	1-214-741-00	(A) 3.3k
		metal oxide
R502	Ⓐ1-214-856-00	(B) 470
		$\frac{1}{2}$ W metal oxide
R503	Ⓐ1-214-862-00	(B) 820
		$\frac{1}{2}$ W metal oxide
R505	Ⓐ1-214-856-00	(B) 470
		$\frac{1}{2}$ W metal oxide
R506	Ⓐ1-214-862-00	(B) 820
		$\frac{1}{2}$ W metal oxide
R532, 533	Ⓐ1-244-849-00	(A) 100
		$\frac{1}{2}$ W carbon
R802	Ⓐ1-212-867-00	(A) 27
		$\frac{1}{4}$ W fusible
R805	Ⓐ1-247-240-00	(A) 1k
		$\frac{1}{2}$ W carbon (nonflammable)
R806	Ⓐ1-217-379-00	(B) 2.2
		$\frac{1}{4}$ W fusible
R814, 820	Ⓐ1-212-857-00	(A) 10
		$\frac{1}{4}$ W fusible
R922	Ⓐ1-246-433-00	(A) 22
		$\frac{1}{4}$ W carbon
RV001, 011	1-226-721-00	(D) 100k/100k-A, variable; BIAS CAL
RV101, 201	1-224-645-XX	(B) 10k-B, adjustable; playback level
RV102	1-226-235-00	(A) 5k-B, adjustable; level meter
RV104, 204	1-226-560-00	(C) 5k-B, variable; REC LEVEL CAL
RV106, 206	1-224-646-XX	(B) 22k-B, adjustable; record level
RV301, 401	1-226-722-00	(E) 20k/20k-A, variable; REC LEVEL
RV502, 503	1-226-232-00	(B) 500-B, adjustable
RV1001	1-226-433-00	(D) 50k-B, adjustable; tape speed
MISCELLANEOUS		
CP901	Ⓐ1-231-326-11	(B) Encapsulated Component (US model)
	Ⓐ1-231-341-00	(C) Spark Killer (Canadian model)
	Ⓐ1-231-341-00	(C) Encapsulated Component (E model)
CNJ101, 102	1-507-531-00	(C) Jack, LINE IN, LINE OUT (fixed)
CNJ201, 202	1-507-531-00	(C) Jack, LINE IN, LINE OUT (fixed)
CNJ103, 203	1-507-526-21	(B) Jack, LINE OUT (variable)
CNJ301	1-507-553-00	(C) Jack, HEADPHONES
CNJ302	1-507-525-00	(D) Jack, MIC
CNJ901	1-561-293-00	(D) Socket, 4p; REMOTE
CNJ902	Ⓐ1-526-528-00	Socket, AC OUTLET (US, Canadian model)
HE	8-825-604-00	(F) Head, erase; EF206-36
HRP	8-825-728-00	(U) Combination Head, record/playback; RPF202-3602A
L101, 201	1-407-240-00	(B) 22mH, inductor, variable
L102, 202	1-408-259-00	(B) 15mH, microinductor

Ref. No.	Part No.	Description
L301, 401	1-408-253-00	(B) 4.7mH, microinductor
L302, 402	1-408-250-00	(B) 2.7mH, microinductor
L303, 403	1-408-249-00	(B) 2.2mH, microinductor
LPF101, 201	1-231-388-00	(D) Filter, lowpass
PL1, 2	1-518-340-71	(B) Lamp, cassette; meter
PL101, 201	1-518-386-00	(B) Lamp, meter
PM1	1-454-222-11	(D) Solenoid, brake
PM2	1-454-222-21	(D) Solenoid, head
M1	X-3564-017-0	(K) Motor Ass'y, capstan
M2	X-3564-015-0	(I) Motor Ass'y, reel
S101	1-552-907-00	(D) Switch, slide; MONITOR
S102	1-552-964-00	(D) Switch, rotary; CALIBRATION
S103	1-552-879-00	(C) Switch, pushbutton; INPUT SELECT
S104	1-552-880-00	(C) Switch, slide; DOLBY NR
S105	1-552-878-00	(D) Switch, slide; EQ
S106	1-552-8	

Ref. No.	Part No.	Description
● 1-560-061-00	(A) Connector Pin	
● 1-560-062-00	(B) Connector Pin	
● 1-560-064-00	(B) Connector Pin	
● 1-561-378-00	(B) Connector Pin 3p	
● 1-561-379-00	(B) Connector Pin 4p	
● 1-561-380-00	(B) Connector Pin 5p	
COMPLETE CIRCUIT BOARDS		
● A-2010-153-A	Record/Playback	
● A-2019-097-A	(S) System Control	
● A-2020-051-A	Servo Amp/Mic Amp/Control	
● A-2022-028-A	Mic Amp/Control	
● A-2029-039-A	(L) Meter	
PRINTED CIRCUIT BOARDS		
● 1-600-821-00	(H) Record/Playback	
● 1-600-822-00	(C) Microphone Amp	
● 1-600-823-00	(C) Switch	
● 1-600-824-00	(B) CAL Control	
● 1-600-825-00	(B) Variable Line Out	
● 1-600-826-00	(C) Record EQ	
● 1-600-827-00	(C) Meter	
● 1-600-828-00	(B) Peak Reset Switch	
● 1-600-829-00	(H) System Control	
● 1-600-831-00	(B) Memory Switch	
● 1-600-832-00	(B) Timer Switch	
● 1-600-833-00	(B) Shut-off	
● 1-601-715-00	(B) BIAS Trimmer	
● 1-601-716-00	(B) BIAS CAL Control	
● 1-602-121-00	(B) LINE OUT SW	

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
X-3701-105-0	(A) Tip Ass'y, head cleaning
1-551-734-11	(D) Cord, connection; RK-74A
3-561-142-00	Cushion, upper-front (Canadian model)
3-561-143-00	Cushion, upper-rear (Canadian model)
3-561-144-00	Cushion, bottom-right (Canadian model)
3-561-145-00	Cushion, bottom-left (Canadian model)
3-566-148-00	(B) Cushion, upper-front (US, AEP, UK, E model)
3-566-149-00	(B) Cushion, upper-rear (US, AEP, UK, E model)
3-566-150-00	(B) Cushion, bottom-right (US, AEP, UK, E model)
3-566-151-00	(B) Cushion, bottom-left (US, AEP, UK, E model)
3-567-250-00	Carton (E model)
3-701-630-00	(A) Bag, plastic
3-703-157-01	(A) Label, destination
3-783-186-11	Manual, instruction (AEP, UK, E model)
3-783-186-21	Manual, instruction (US model)
3-783-186-21	Manual, instruction (Canadian model)
3-794-826-31	
3-793-481-12	(A) Leaflet
3-793-828-11	(A) Caution Card, cassette
3-794-826-31	Leaflet (Canadian model)
4-860-421-00	(B) Bag, protection

ELECTROLYTIC CAPACITORS

Note: Circled letter (A) to (Z) are applicable to European models only.

CAP. (μ F)	RATING					→ : Use the high voltage rated one.
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	
0.47						→ 1-121-726-00 (A)
1.0	→	→	→	1-121-392-00 (A)	→ 1-121-391-00 (A)	
2.2	→	→	→	1-121-395-00 (A)	→ 1-121-450-00 (A)	
3.3	→	→	→		→ 1-121-393-00 (A)	
4.7	→	→	→		→ 1-121-396-00 (A)	
10	→	→	1-121-651-00 (A)	→ 1-121-398-00 (A)	→ 1-121-738-00 (A)	
22	→	→	1-121-479-00 (A)	1-121-480-00 (A)	1-121-662-00 (A)	1-121-152-00 (A)
33	→	→	1-121-403-00 (A)	1-121-404-00 (A)	1-121-652-00 (B)	1-121-405-00 (A)
47	→	1-121-352-00 (A)	1-121-409-00 (A)	1-121-410-00 (A)	1-121-653-00 (B)	1-121-411-00 (A)
100	→	1-121-414-00 (A)	1-121-415-00 (A)	1-121-416-00 (A)	1-121-357-00 (B)	1-121-417-00 (B)
220	1-121-419-00 (B)	1-121-420-00 (B)	1-121-421-00 (B)	1-121-422-00 (B)	1-121-261-00 (C)	1-121-423-00 (B)
330	1-121-751-00 (B)	1-121-805-00 (B)	1-121-521-00 (C)	1-121-654-00 (B)	1-121-655-00 (D)	1-121-656-00 (C)
470	1-121-424-00 (B)	1-121-425-00 (C)	1-121-426-00 (C)	1-121-733-00 (B)	1-121-361-00 (E)	1-121-810-00 (D)
1000	—	1-121-736-00 (C)	1-121-245-00 (D)	1-121-657-00 (D)	1-121-388-00 (E)	1-123-061-00 (F)
2200	1-121-658-00 (B)	1-121-659-00 (C)	1-121-660-00 (D)	1-121-067-00 (F)	1-121-984-00 (F)	—
3300	1-121-661-00 (D)	1-123-075-00 (E)	1-123-071-00 (F)	—	—	—

CAP. (μ F)	100 VOLT.		250 VOLT.		350 VOLT.	
	PART No.	PART No.				
0.47	—	—	—	—	—	—
1.0	1-123-249-00 (A)	1-123-252-00 (A)	1-123-003-00 (B)	1-121-168-00 (B)	—	—
2.2	1-123-250-00 (A)	1-123-026-00 (B)	—	1-123-028-00 (B)	—	—
3.3	1-121-995-00 (A)	—	1-123-004-00 (B)	1-123-006-00 (C)	—	—
4.7	1-123-255-00 (A)	1-121-246-00 (B)	1-121-759-00 (C)	1-123-007-00 (D)	—	—
10	1-121-126-00 (B)	1-121-999-00 (B)	1-123-254-00 (C)	1-123-008-00 (D)	1-123-022-00 (D)	—
22	1-121-996-00 (C)	1-121-997-00 (C)	1-121-757-00 (C)	—	—	—
33	1-121-997-00 (C)	1-123-251-00 (C)	1-121-919-00 (C)	—	—	—
47	1-123-084-00 (E)	—	—	—	—	—
100	—	—	—	—	—	—

CERAMIC CAPACITORS (A)

CAP. (pF)	RATING		CAP. (pF)	RATING		CAP. (pF)	RATING	
	50 VOLT.	PART No.		50 VOLT.	PART No.		50 VOLT.	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00	
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00	
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00	
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00	
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00	
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00	
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00	
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00	
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00	
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00	
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00	
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00	
10	1-102-947-00	68	1-101-888-00	470				

MYLAR CAPACITORS (A)

Note: Circled letters (Ⓐ to Ⓛ) are applicable to European models only.

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00	—	—	—	—
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	—	—	—	—
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	—	—	—	—



TANTALUM CAPACITORS

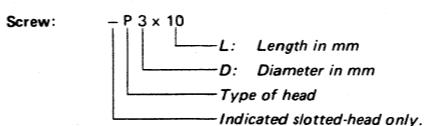
RATING → : Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01	—	—	—	—	→	→	1-131-396-00 (B)
0.015	—	—	—	—	→	→	1-131-397-00 (B)
0.022	—	—	—	—	→	→	1-131-398-00 (B)
0.033	—	—	—	—	→	→	1-131-399-00 (B)
0.047	—	—	—	—	→	→	1-131-400-00 (B)
0.068	—	—	—	—	→	→	1-131-401-00 (B)
0.1	—	—	—	—	→	→	1-131-402-00 (B)
0.15	—	—	—	—	→	→	1-131-403-00 (B)
0.22	—	—	—	—	→	→	1-131-404-00 (B)
0.33	—	—	—	—	→	1-131-409-00 (B)	1-131-405-00 (B)
0.47	—	—	—	—	1-131-412-00 (B)	→	1-131-406-00 (B)
0.68	—	—	—	—	1-131-415-00 (B)	→	1-131-407-00 (B)
1.0	—	—	—	—	1-131-413-00 (B)	→	1-131-408-00 (B)
1.5	—	—	—	—	1-131-416-00 (B)	→	1-131-411-00 (B)
2.2	1-131-424-00 (B)	—	—	—	1-131-414-00 (B)	—	1-131-348-00 (B)
3.3	—	—	1-131-422-00 (B)	—	1-131-417-00 (B)	1-131-362-00 (B)	1-131-356-00 (B)
4.7	1-131-425-00 (B)	—	—	—	1-131-420-00 (B)	1-131-369-00 (B)	1-131-350-00 (B)
6.8	—	—	1-131-423-00 (B)	—	1-131-376-00 (B)	1-131-370-00 (B)	1-131-351-00 (C)
10	1-131-426-00 (B)	1-131-383-00 (B)	1-131-377-00 (B)	1-131-371-00 (B)	1-131-364-00 (B)	1-131-358-00 (C)	1-131-352-00 (C)
15	1-131-390-00 (B)	1-131-384-00 (B)	1-131-378-00 (B)	1-131-372-00 (B)	1-131-365-00 (C)	1-131-359-00 (C)	1-131-353-00 (D)
22	1-131-391-00 (B)	1-131-385-00 (B)	1-131-379-00 (C)	1-131-373-00 (C)	1-131-367-00 (D)	—	—
33	1-131-392-00 (B)	1-131-386-00 (C)	1-131-380-00 (C)	1-131-374-00 (D)	—	—	—
47	1-131-393-00 (C)	1-131-387-00 (C)	1-131-381-00 (D)	—	—	—	—
68	1-131-394-00 (B)	1-131-388-00 (C)	—	—	—	—	—
100	1-131-395-00 (D)	—	—	—	—	—	—



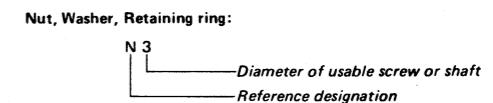
RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033	—	—	—	—	—	1-131-273-00 (B)
0.047	—	—	—	—	—	1-131-274-00 (B)
0.068	—	—	—	—	—	1-131-275-00 (B)
0.1	—	—	—	—	—	1-131-276-00 (B)
0.15	—	—	—	—	—	1-131-277-00 (B)
0.22	—	—	—	—	—	1-131-262-00 (D)
0.33	—	—	—	—	—	1-131-263-00 (D)
0.47	—	—	1-131-169-00 (D)	—	—	1-131-264-00 (D)
0.68	—	—	—	—	—	1-131-265-00 (D)
1.0	—	—	1-131-254-00 (D)	—	—	1-131-266-00 (D)
1.5	—	1-131-250-00 (D)	—	—	—	1-131-267-00 (D)
2.2	—	—	—	—	—	1-131-268-00 (D)
3.3	—	—	—	—	—	1-131-279-00 (D)
4.7	—	1-131-251-00 (D)	—	1-131-255-00 (D)	—	1-131-280-00 (D)
6.8	—	—	—	1-131-171-00 (D)	—	1-131-281-00 (D)
10	—	—	—	—	—	1-131-282-00 (D)
15	—	—	1-131-252-00 (D)	—	—	1-131-283-00 (D)
22	—	—	—	—	—	—
33	1-131-176-00 (D)	—	1-131-257-00 (D)	—	—	—
47	1-131-288-00 (F)	1-131-174-00 (D)	1-131-253-00 (B)	1-131-173-00 (C)	—	—
100	1-131-177-					

1/4 WATT CARBON RESISTORS [Ⓐ] **Note:** Circled letter [Ⓐ] is applicable to European models only.

Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	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	1.0M	1-246-545-00
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	1.1M	1-210-814-00
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	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
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	4.3M	1-244-760-00
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	4.7M	1-244-761-00
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	5.1M	1-244-762-00
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

Unless otherwise indicated, it means cross-recessed head (Phillips type).



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		braizer-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	

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— 46 —

9-954-880-01
with RM-5080B02112-1
Printed in Japan

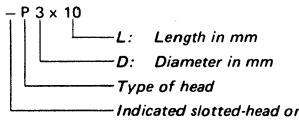
1/4 WATT CARBON RESISTORS ^(A)

Note: Circled letter ^(A) is applicable to European models only.

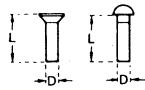
Ω	Part No.										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	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	1-246-577-00	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	1-246-578-00	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	1-246-579-00	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	1-246-580-00	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	1-246-581-00	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	1-246-582-00	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	1-246-583-00	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	1-246-584-00	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	1-246-585-00	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	1-246-586-00	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	1-246-587-00	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

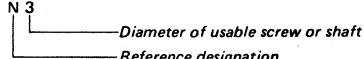
Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).



Nut, Washer, Retaining ring:



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		braizer-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	

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— 46 —

MYLAR CAPACITORS (A)

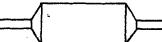
Note: Circled letters (Ⓐ to Ⓛ) are applicable to European models only.

CAP. (μF)	RATING			CAP. (μF)	RATING			CAP. (μF)	RATING		
	50 VOLT.	100 VOLT.	200 VOLT.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



TANTALUM CAPACITORS

CAP. (μF)	RATING							CAP. (μF)	RATING						
	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.		PART No.						
0.01						→									1-131-396-00 Ⓛ
0.015															1-131-397-00 Ⓛ
0.022															1-131-398-00 Ⓛ
0.033															1-131-399-00 Ⓛ
0.047															1-131-400-00 Ⓛ
0.068															1-131-401-00 Ⓛ
0.1															1-131-402-00 Ⓛ
0.15															1-131-403-00 Ⓛ
0.22															1-131-404-00 Ⓛ
0.33															1-131-405-00 Ⓛ
0.47	—	—	—	—	—	1-131-415-00 Ⓛ	1-131-412-00 Ⓛ	1-131-415-00 Ⓛ	1-131-410-00 Ⓛ	1-131-406-00 Ⓛ	1-131-407-00 Ⓛ	1-131-408-00 Ⓛ	1-131-348-00 Ⓛ	1-131-349-00 Ⓛ	
0.68	—	—	—	—	—	1-131-418-00 Ⓛ	1-131-413-00 Ⓛ	1-131-413-00 Ⓛ	1-131-411-00 Ⓛ	1-131-411-00 Ⓛ	1-131-408-00 Ⓛ	1-131-409-00 Ⓛ	1-131-348-00 Ⓛ	1-131-349-00 Ⓛ	
1.0	—	—	—	—	—	1-131-421-00 Ⓛ	1-131-419-00 Ⓛ	1-131-419-00 Ⓛ	1-131-414-00 Ⓛ	1-131-355-00 Ⓛ	1-131-355-00 Ⓛ	1-131-356-00 Ⓛ	1-131-350-00 Ⓛ	1-131-351-00 Ⓛ	
1.5	—	—	—	—	—	1-131-424-00 Ⓛ	1-131-422-00 Ⓛ	1-131-417-00 Ⓛ	1-131-417-00 Ⓛ	1-131-362-00 Ⓛ	1-131-363-00 Ⓛ	1-131-357-00 Ⓛ	1-131-352-00 Ⓛ	1-131-353-00 Ⓛ	
2.2	—	—	—	—	—	1-131-426-00 Ⓛ	1-131-383-00 Ⓛ	1-131-377-00 Ⓛ	1-131-371-00 Ⓛ	1-131-364-00 Ⓛ	1-131-365-00 Ⓛ	1-131-358-00 Ⓛ	1-131-359-00 Ⓛ	1-131-360-00 Ⓛ	
3.3	—	—	—	—	—	1-131-425-00 Ⓛ	1-131-423-00 Ⓛ	1-131-376-00 Ⓛ	1-131-370-00 Ⓛ	1-131-364-00 Ⓛ	1-131-365-00 Ⓛ	1-131-359-00 Ⓛ	1-131-360-00 Ⓛ	—	
4.7	—	—	—	—	—	1-131-426-00 Ⓛ	1-131-384-00 Ⓛ	1-131-378-00 Ⓛ	1-131-372-00 Ⓛ	1-131-366-00 Ⓛ	1-131-366-00 Ⓛ	1-131-360-00 Ⓛ	1-131-353-00 Ⓛ	—	
6.8	—	—	—	—	—	1-131-391-00 Ⓛ	1-131-385-00 Ⓛ	1-131-379-00 Ⓛ	1-131-373-00 Ⓛ	1-131-367-00 Ⓛ	1-131-367-00 Ⓛ	1-131-360-00 Ⓛ	1-131-353-00 Ⓛ	—	
10	—	—	—	—	—	1-131-392-00 Ⓛ	1-131-386-00 Ⓛ	1-131-380-00 Ⓛ	1-131-374-00 Ⓛ	1-131-369-00 Ⓛ	1-131-363-00 Ⓛ	1-131-357-00 Ⓛ	1-131-351-00 Ⓛ	—	
15	—	—	—	—	—	1-131-393-00 Ⓛ	1-131-387-00 Ⓛ	1-131-381-00 Ⓛ	—	1-131-371-00 Ⓛ	1-131-365-00 Ⓛ	1-131-359-00 Ⓛ	1-131-353-00 Ⓛ	—	
22	—	—	—	—	—	1-131-394-00 Ⓛ	1-131-388-00 Ⓛ	—	—	1-131-367-00 Ⓛ	—	—	—	—	
33	—	—	—	—	—	1-131-395-00 Ⓛ	—	—	—	1-131-367-00 Ⓛ	—	—	—	—	
47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



TANTALUM CAPACITORS

CAP. (μF)	RATING							CAP. (μF)	RATING						
	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.		PART No.						
0.033															1-131-273-00 Ⓛ
0.047															1-131-274-00 Ⓛ
0.068															1-131-275-00 Ⓛ
0.1															1-131-276-00 Ⓛ
0.15															1-131-277-00 Ⓛ
0.22															1-131-262-00 Ⓛ
0.33															1-131-263-00 Ⓛ
0.47															1-131-264-00 Ⓛ
0.68															1-131-265-00 Ⓛ
1.0															1-131-266-00 Ⓛ
1.5															1-131-267-00 Ⓛ
2.2															1-131-278-00 Ⓛ
3.3															1-131-279-00 Ⓛ
4.7															1-131-280-00 Ⓛ
6.8															1-131-281-00 Ⓛ
10															1-131-282-00 Ⓛ
15															1-131-283-00 Ⓛ
22															1-131-284-00 Ⓛ
33															—
47															—
100															—

TC-K81

STEREO CASSETTE DECK

SUPPLEMENT

File this supplement with the service manual.
Add the record head azimuth adjustment as shown page 2.

*US Model
Canadian Model
AEP Model
UK Model
E Model*

No. 1
September, 1980

Correction
— Page 13 —

Incorrect	Correct
Record/playback Head Azimuth Adjustment	Playback Head Azimuth Adjustment

SONY
SERVICE MANUAL

402

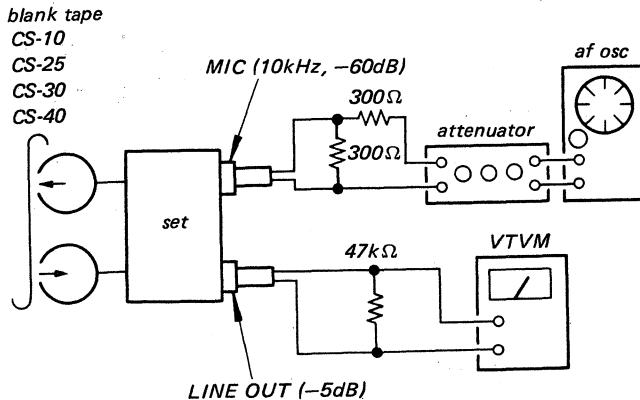
Record Head Azimuth Adjustment

Setting:

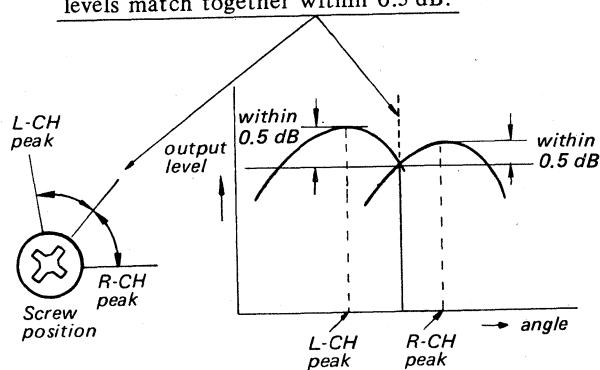
MONITOR switch: TAPE

Procedure:

1. Mode: record



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

3. Phase Check
Mode: record

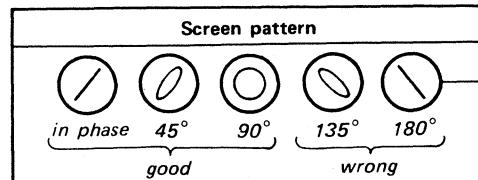
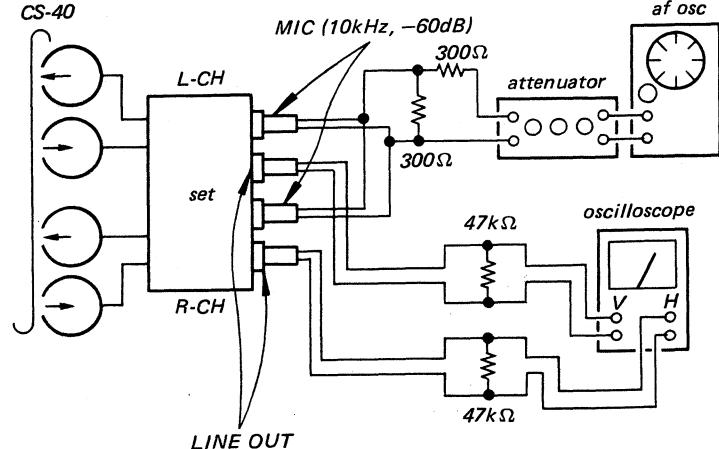
blank tape

CS-10

CS-25

CS-30

CS-40



Adjustment Location:

