

TC-K8/K8B

300

TC-K8 (Panel: Silver)*

Canadian Model

TC K8B (Panel: Black)

E Model

AEP Model

UK Model



(TC-K8B)

STEREO CASSETTE DECK

SPECIFICATIONS

Power Requirements:	110, 120, 220, 240V ac, 50/60 Hz (E, AEP, UK model) 120V ac, 60 Hz (Canadian model)	Weight:	Approx. 11 kg, 24 lb 5 oz (E, AEP, UK model) 11.8 kg, 26 lb 1 oz (Canadian model)
Power Consumption:	35W (E, AEP, UK model) 32W (Canadian model)	Track:	4-track 2-channel stereo
AC Outlet:	Unswitched 300W total (Canadian model)	Fast Forward and Rewind Time:	Approx. 70 seconds with Sony cassette C-60
Dimensions:	Approx. 430 (w) x 170 (h) x 310 (d) mm 17 (w) x 6 3/4 (h) x 12 1/4 (d) inches (E, AEP, UK model) 460 (w) x 170 (h) x 310 (d) mm 18 1/8 (w) x 6 3/4 (h) x 12 1/4 (d) inches (Canadian model)	Frequency Response:	DOLBY NR OFF With Ferri-Chrome cassette 20–18,000 Hz (NAB) 30–16,000 Hz ±3 dB (NAB) 30–16,000 Hz (DIN) With chromium dioxide cassette 20–17,000 Hz (NAB) 30–15,000 Hz ±3 dB (NAB) 30–15,000 Hz (DIN) With standard cassette 20–15,000 Hz (NAB) 30–13,000 Hz (DIN)
	Including projecting parts and controls		

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK 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 UN TRAMÉ ET UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES 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 DES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION: See page 50

Wow and Flutter:	0.045% WRMS ± 0.12% (DIN)
S/N Ratio:	DOLBY NR OFF With Ferri-Chrome cassette 60 dB at peak level (NAB) 59 dB (DIN, 1975 rev.) With chromium dioxide cassette 56 dB at peak level (NAB)
DOLBY NR ON	Improved by 5 dB at 1 kHz, 10 dB above 5 kHz
Total Harmonic Distortion:	1.3%

— Continued on page 2 —

SONY®
SERVICE MANUAL

TC-K8/K8B

Record Bias Frequency:	105 kHz	Record/Playback Jack:	Input impedance less than 10 kΩ Output impedance less than 10 kΩ
Inputs:	<p>MIC (two phone jacks) Sensitivity: 0.2 mV (-72 dB) for low-impedance microphone</p> <p>LINE IN (stereo binaural jack, two phono jacks) Sensitivity: 0.06 V (-22 dB) Impedance: 100 kΩ</p>	Remote Control Connector:	11-pin connector
Outputs:	<p>LINE OUT (two phono jacks) Normal level: 0.775V (0 dB) Load impedance: 100 kΩ with LINE OUT level control at "10" suitable load impedance more than 10 kΩ</p> <p>HEADPHONES (binaural jack) output level 3.9 mV to 0.12V (-46 to -16 dB) at load impedance 8 Ω</p>	Liquid Crystal peak program meters	
		Response Range:	-40 dB to +5 dB
		Frequency Response:	20 Hz-20,000 Hz ± 1.5 dB
		Response Time:	1 millisecond
		Decay Time:	750 milliseconds (0 dB to -20 dB)
		Overshoot:	None
		Indicator Elements:	64 elements for each channel

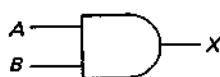
0 dB = 0.775V

SECTION 1 OUTLINE

Circuit Description

A major feature of the TC-K8/K8B is the liquid crystal peak program meter which display input and output signals in analog bar graph form. Some of the basic logic circuits employed in the meter circuit:

AND circuits: "H" output obtained only when all inputs are "H".



A	B	X
L	L	L
H	L	L
L	H	L
H	H	H

OR circuits: "H" output obtained when at least one input is "H".



A	B	X
L	L	L
H	L	H
L	H	H
H	H	H

NAND circuits: "L" output obtained when all inputs are "H". NAND circuits are formed by combining an AND circuit with a negating circuit.



A	B	X
L	L	H
H	L	H
L	H	H
H	H	L

Liquid Crystal Peak Program Meter Drive Circuits

1. Basic Frequency Generator Circuits for Liquid Crystal Drive (See Figs. 1 & 2.)

The signal generated by the multivibrator consisting of IC7-4, 7-5, C006, and R012 is passed through inverter IC7-6 to produce waveform A. This signal is then divided into 7 different waveforms B - H by IC6.

a) Clock pulse

Clock pulses are reference signals employed to show the converted time as the number of pulses. In this cassette deck, waveform B serves as the clock pulse. But waveforms A and H are combined in the IC12-1 AND circuit to obtain a delay of half a clock pulse. This output (waveform I) is applied to CX762 to ensure reliable shift of the A/D converted serial signal.

b) Strobe pulse

The IC6 output waveforms B to H are applied to IC13 for a NAND operation (waveform J). The strobe pulse is then formed by adding the output waveform K from the IC7-1, R026, C007 delay circuit to the IC13 output waveform J in an AND operation. This strobe pulse signal (waveform L) is applied to CX762 and used as a reset signal.

c) Drive pulse

IC6 output (waveform H) is used as an LCD drive signal, being applied to CX762 via inverter IC8.

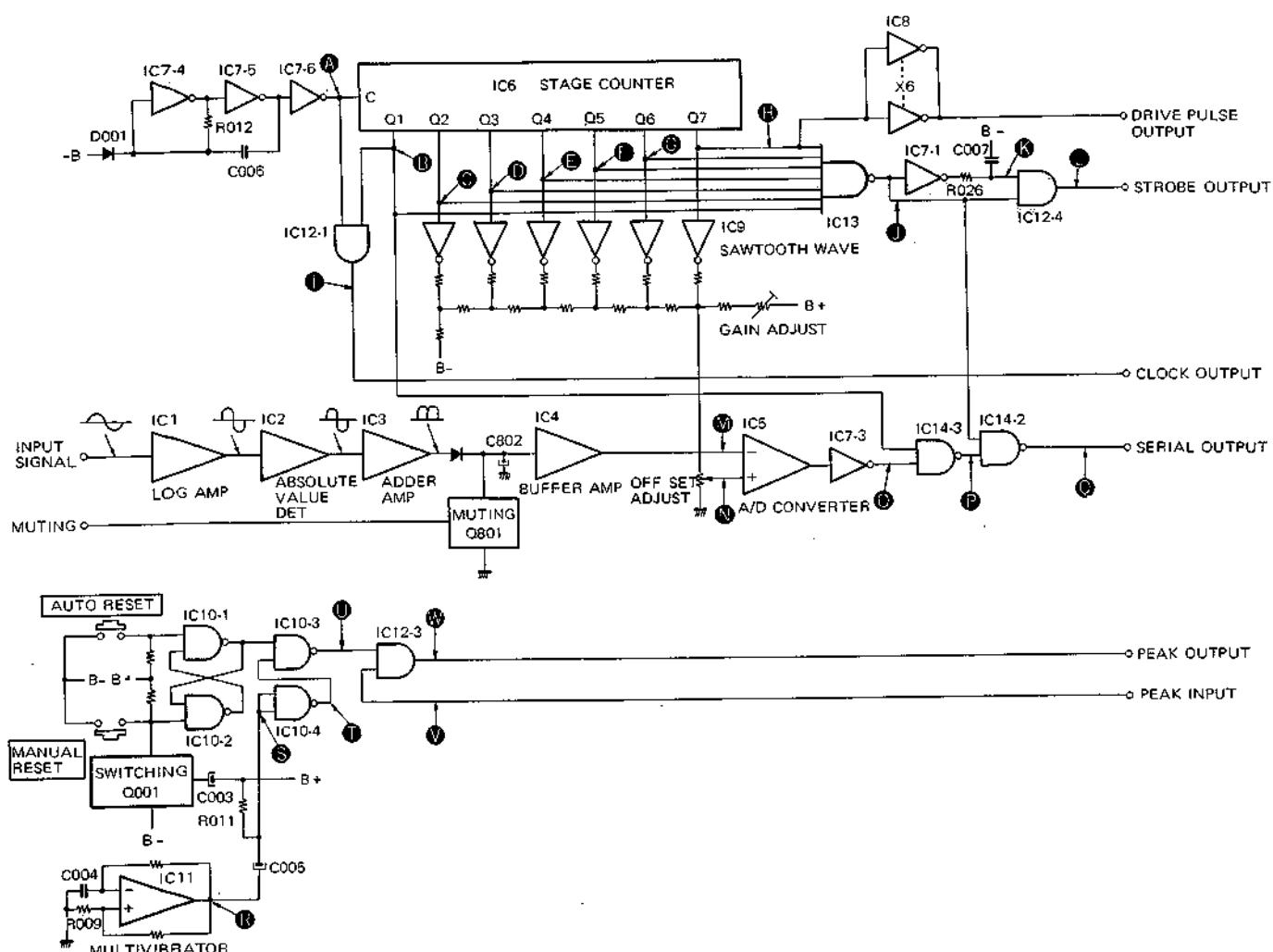


Fig. 1

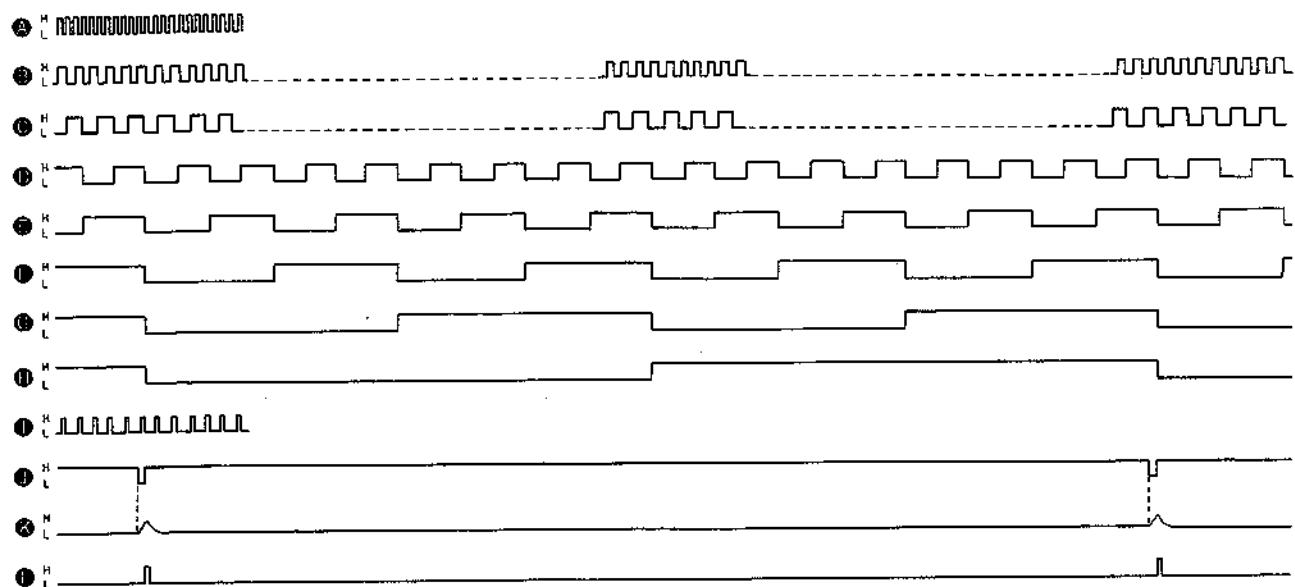


Fig. 2

2. A/D Converter Serial Signal Generator Circuit (See Figs. 1 & 3.)

The input signal is compressed according to a logarithmic function (in IC1) in order to expand the meter scale range. Then in order to detect both positive and negative peak levels in the input signal, the signal is rectified by the IC2 and IC3 full-wave rectifier, and charged up on C802 to convert the signal to DC current. (Levels a, b, and c in waveform M correspond to the level variation in the input signal). The IC6 output waveforms C to H are applied to IC9, passed through resistors, and then combined to form a comparator sawtooth wave (waveform N) which is compared with waveform M in the A/D converter IC5. The input signal level variations are consequently converted into pulse widths (O waveforms). The O waveforms are passed through the in-

verter, and combined with the clock pulses (waveform P) by a NAND operation, resulting in the input signal level variation subsequently being expressed in terms of the number of clock pulses (P waveforms serial signal). The IC13 NAND output (waveform Q) is combined with the serial signals (P waveforms) in another NAND operation, thereby maintaining the left hand end LCD on constantly. This precaution ensures that the display does not go off altogether when there is no input signal, and also eliminates the effects due to the drift at low level.

* Drive pulse

Since the IC8 inverter operates and the output current of the "H" and "L" levels is equal, the potential difference becomes zero and this ensures longer operational life of the liquid crystal.

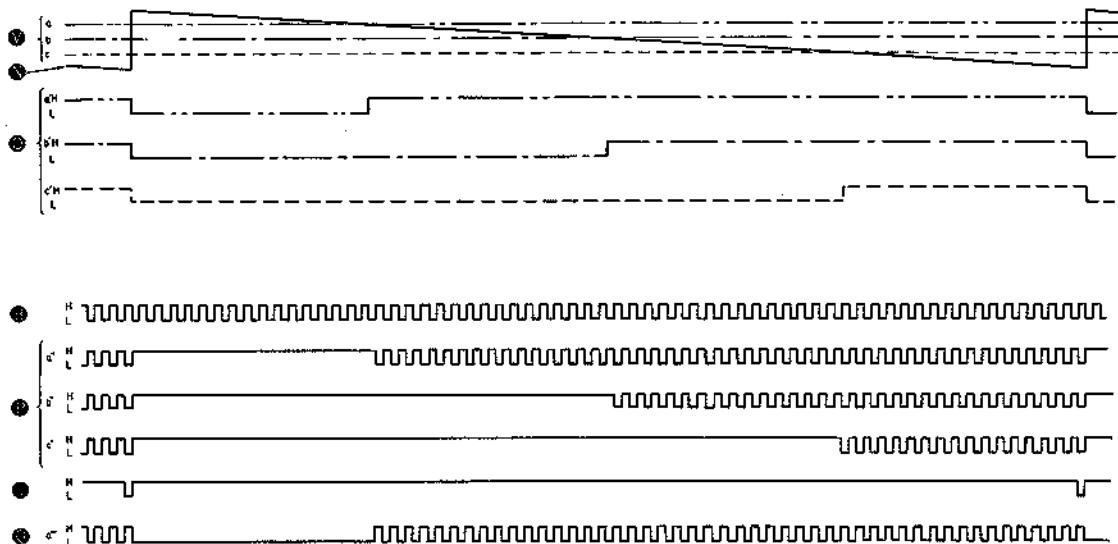


Fig. 3

3. Meter Mode Switching (See Figs. 1, 4 & 5)
 IC10-1 and IC10-2 constitute an RS flip-flop. When the power supply switch is turned on, Q001 turns on, and the input terminal of IC10-2 is grounded while C003 is being charged up. Therefore an "L" level signal is generated on the IC10-1 output terminal. When the MANUAL RESET switch is also turned on, an "L" level signal is generated on the IC10-1 output terminal in the same way. When the AUTO RESET switch is turned on, an "L" level signal is applied to the

input terminal of IC10-1, resulting in the generation of an "H" level signal on the IC10-1 output terminal (See Fig. 4.) The signal (waveform **R**) generated in the multivibrator (IC11, C004, and R009) is differentiated by C005 and R011 (waveform **S**). The waveform **S** is then rectified by IC10-4 (waveform **T**), and combined with the IC10-1 output signal in a NAND operation (waveform **U**). The peak signal reset pulse is generated when the AUTO RESET switch is on, but not when the MANUAL RESET switch is on.

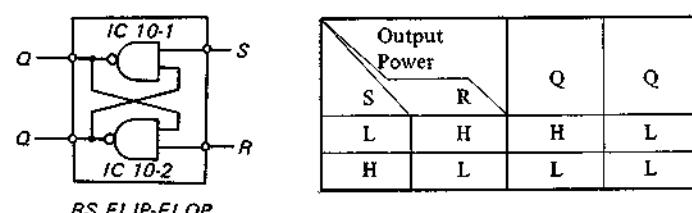


Fig. 4

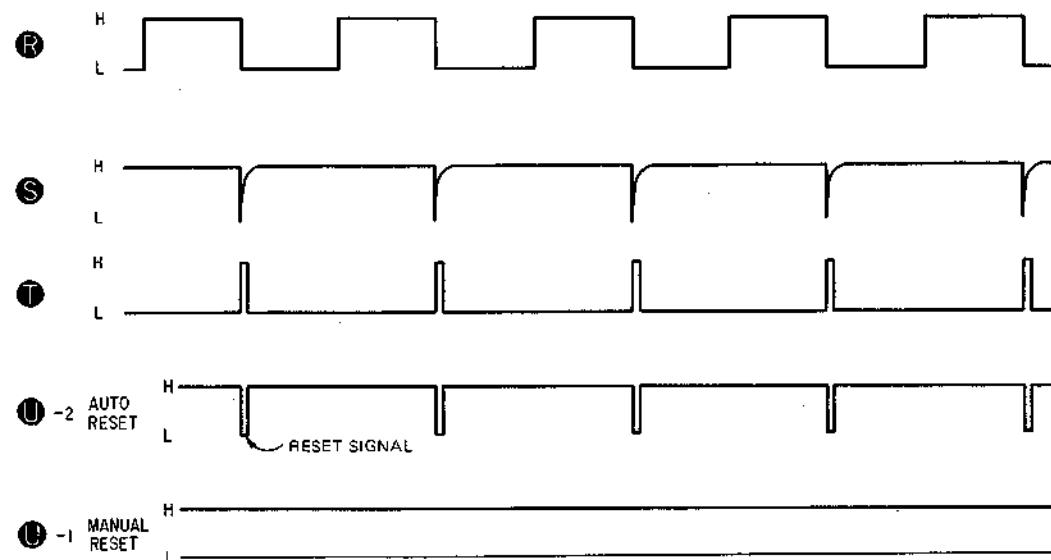


Fig. 5

Liquid Crystal

The TC-K8B features the liquid crystal peak program meter. Although liquid crystal comes in various different types, the liquid crystal molecules employed here are long and slender, and line up in the direction of an electric field. By orienting this liquid crystal parallel to the surface of a glass plate, and then setting up 2 such glass plates to be at right angles to a light

beam, the liquid crystals within the liquid crystal cell line up as shown in Fig. 6. When 2 light polarizing glass plates are added to both sides of the cell, but no voltage applied across the cell, a light beam passed through polarizing plate **A** is rotated through 90° as it passes through the cell, and passed out again through polarizing plate **B**.

1. Liquid Crystal Cell when No Voltage is Applied.

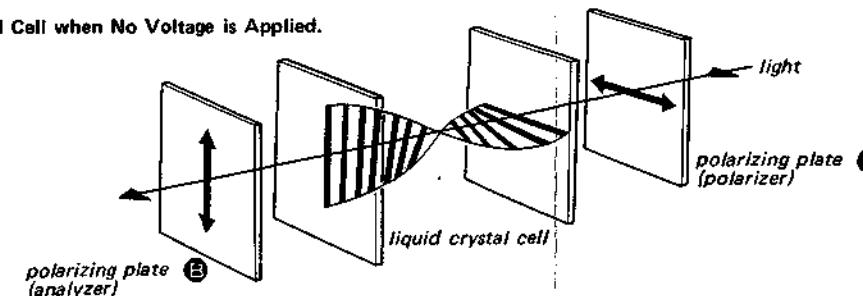


Fig. 6

When a voltage is then applied across the crystal cell, the liquid crystals change direction and align perpendicular to the surface of the glass plates (as shown

in Fig. 7.) The polarized light is no longer rotated through 90°, and consequently fail to pass through polarizing plate **B**. Therefore, the cell appears dark.

2. Liquid Crystal Cell with Voltage Applied.

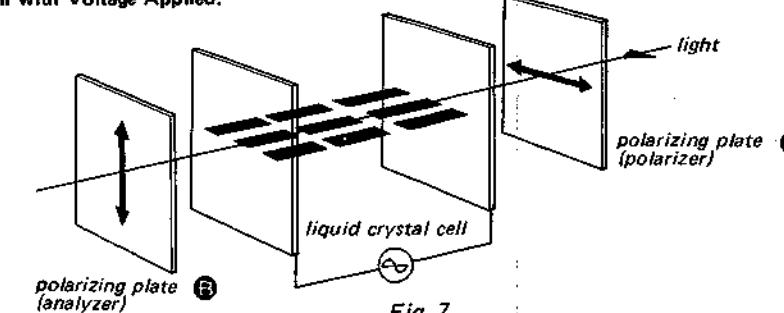


Fig. 7

However, rather than indicating peak level by the change between light and dark, the peak program meter employed in the TC-K8/K8B feature a color display. This is achieved by using a color polarizing plate on the light source side. All colors except the desired color polarized by polarizing plate **A**, resulting in this non-polarized color passing through polarizing plate **B** when all other colors are blocked out.

3. Liquid Crystal Cell Structure

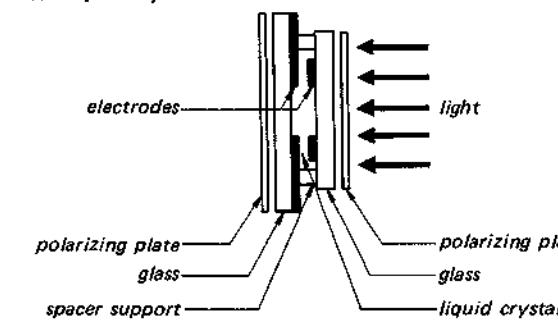


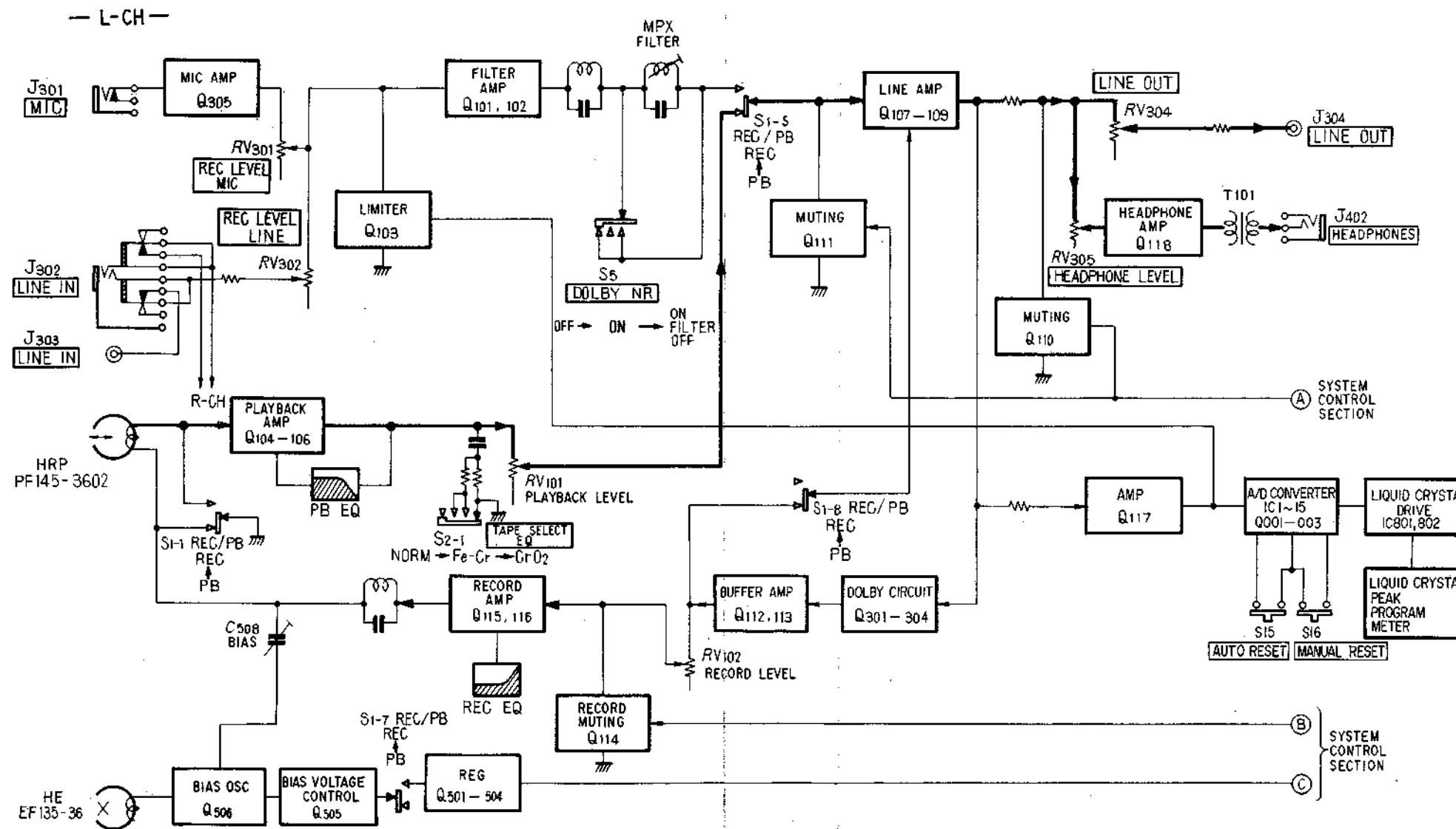
Fig. 8

The glass plates employed in this cell are made coated by a transparent, electrically conductive material known as nesa film (which contains indium oxide). The coating is etched to form meter scale. The two plates are separated by a spacing support, and the space between two plates is filled with liquid crystal. The voltage is applied to the electrodes mounted on the inside of the glass plates, and when viewed from the front, the meter display is colored.

The TC-K8/K8B program meter consist of 64 separate elements in both left and right channels. The letters L and R also employ liquid crystal display. The colored polarizing plate is blue below the 0 dB level, and red above it. A fluorescent lamp has been employed as the light source because of the wide light spectrum required for the color display.

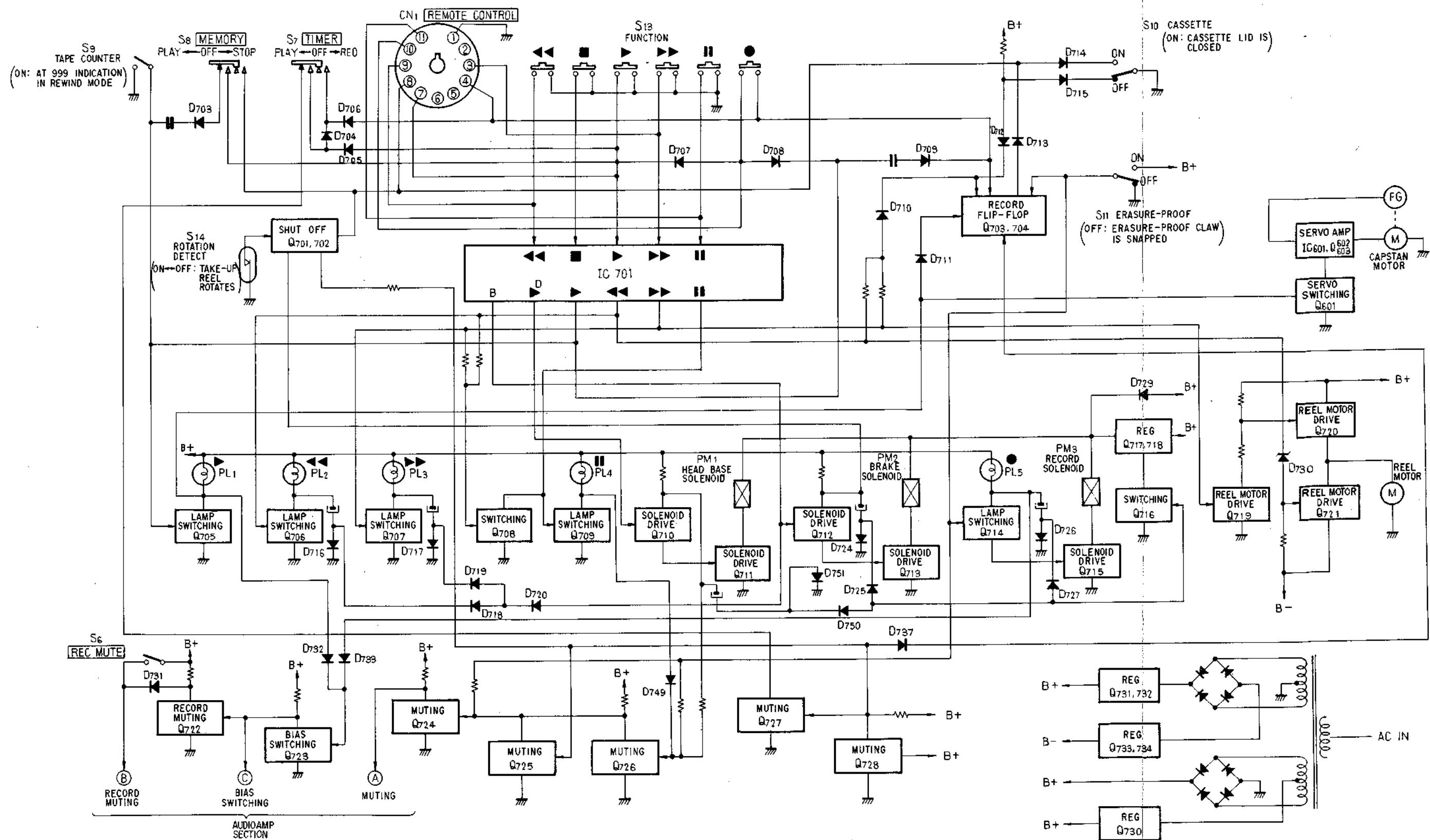
TC-K8/K8B TC-K8/K8B

1. BLOCK DIAGRAMS — Audio Amp Section —



TC-K8/K8B

1. BLOCK DIAGRAMS - System Control Section -



SECTION 2 DISASSEMBLY

MOS IC HANDLING PRECAUTIONS

Since the insulation resistance of the oxidized film of MOS IC is generally very high and the film is extremely thin, the static electric charge on clothing or the body will cause the insulation to breakdown. Observe the following precautions when replacing this IC:

1. Maintain all the pins at the same potential by wrapping the IC in aluminum foil or other similar material. (See Fig. 1)

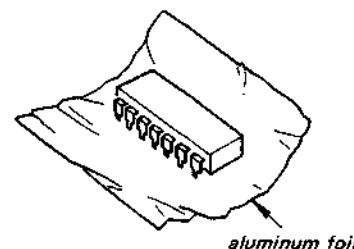


Fig. 1

2. Ground the work bench for static electricity. (See Fig. 2) (Place a sheet of aluminum onto the bench.)

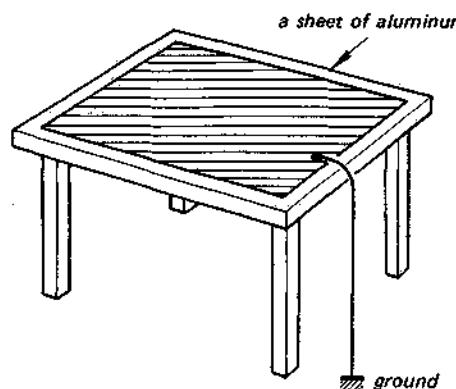


Fig. 2

3. If necessary to touch the MOS IC direct, grasp the IC at a point other than the pins. Moreover, wear cotton gloves or a cotton finger sack. (Gloves made of nylon or other similar material are undesirable. The static electricity on your body can be easily discharged by wrapping a ground wire around your wrist.)

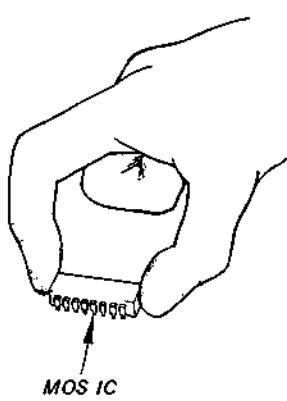


Fig. 3

4. Short all the pins of the IC before beginning any work. Also ground the soldering iron.

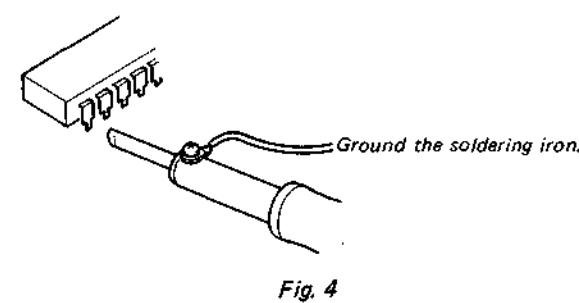
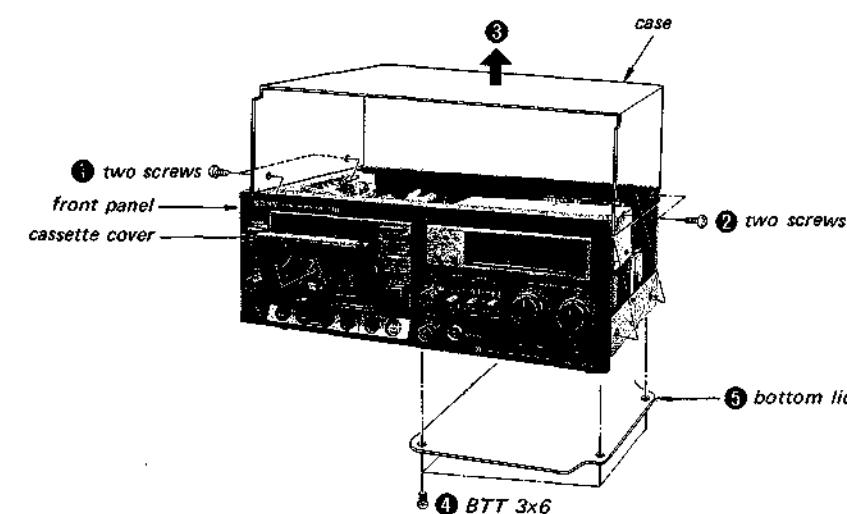


Fig. 4

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

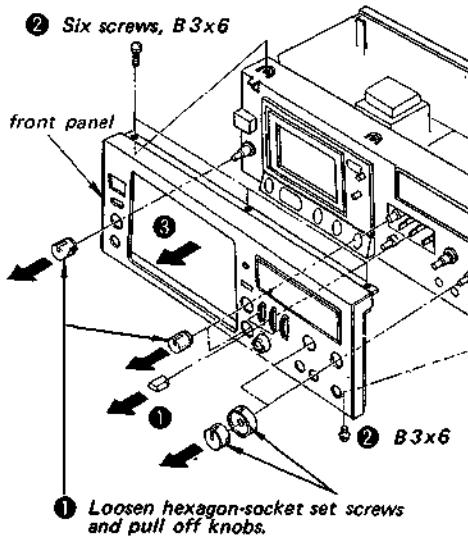
CASE AND BOTTOM LID REMOVAL

Note: 1. Checkouts on the amp, system control and servo amp boards can be made after case removal.
2. Repair on the amp board (except for switches) can be made after bottom lid removal.

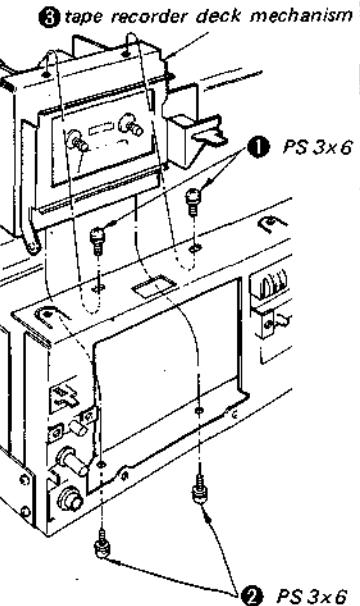


FRONT PANEL REMOVAL

Note: Replacements of jacks and variable resistors can be made after front panel removal.

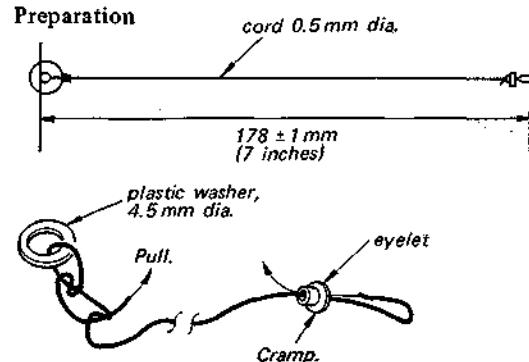


TAPE RECORDER DECK REMOVAL

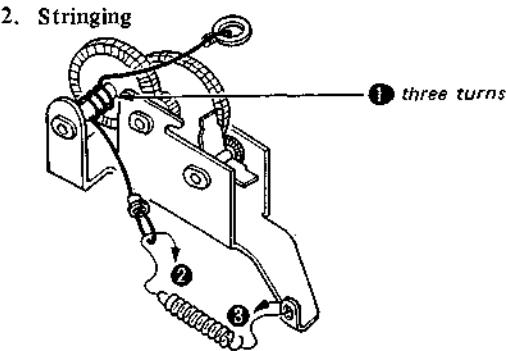


STRINGING OF CASSETTE HOLDER DAMPER

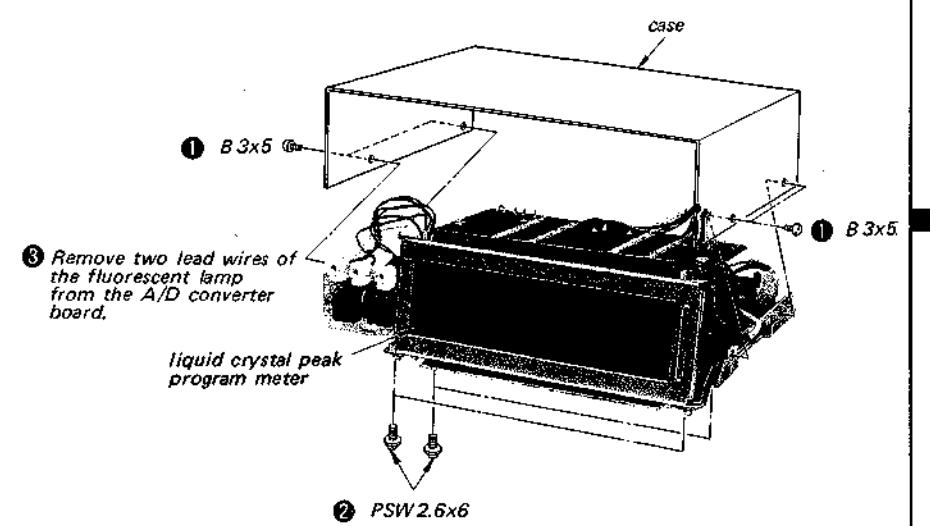
1. Preparation



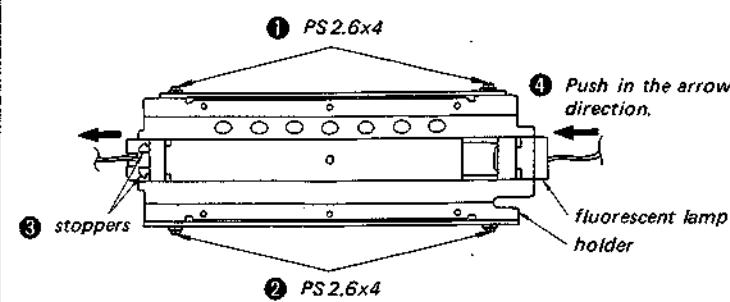
2. Stringing



LIQUID CRYSTAL PEAK PROGRAM METER REMOVAL



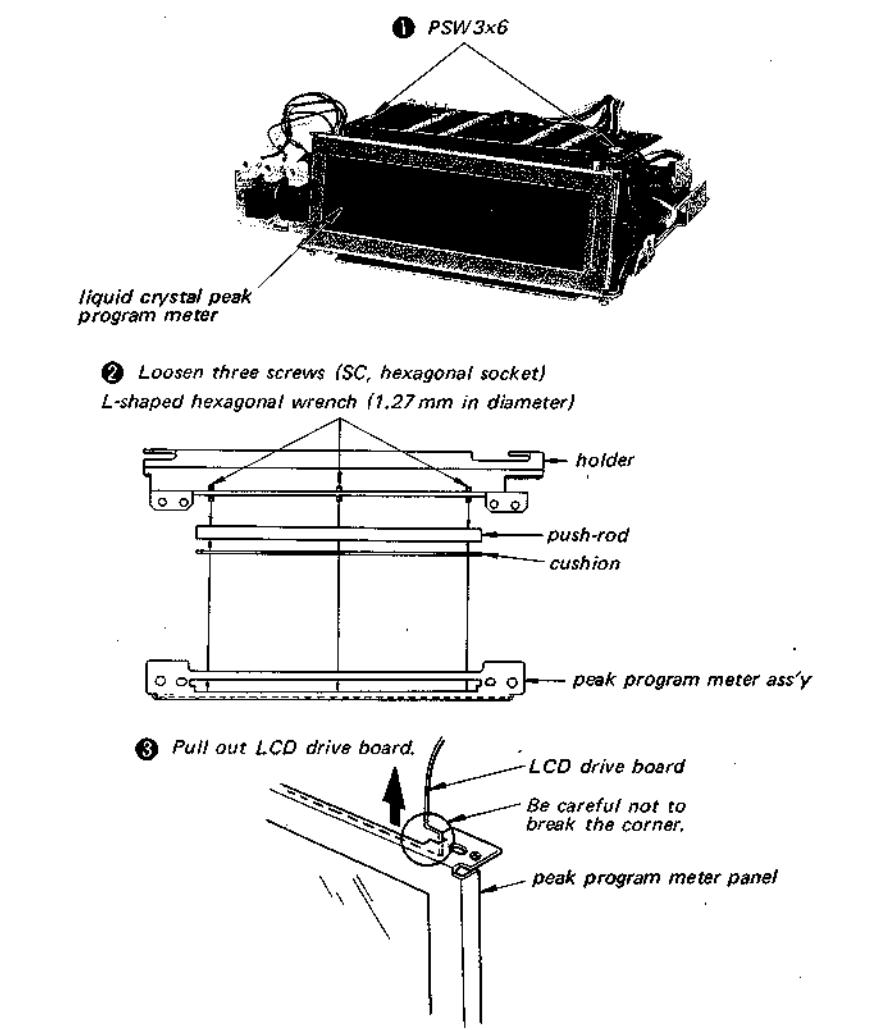
FLUORESCENT LAMP REMOVAL



Caution:

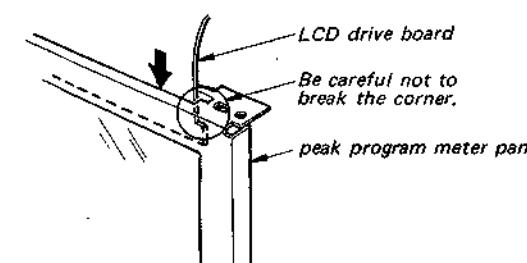
Since the LCD drive board is easy to remove, when removing the fluorescent lamp, be careful not to break the corner of the LCD drive board.

LCD DRIVE BOARD (FLEXIBLE BOARD) REMOVAL

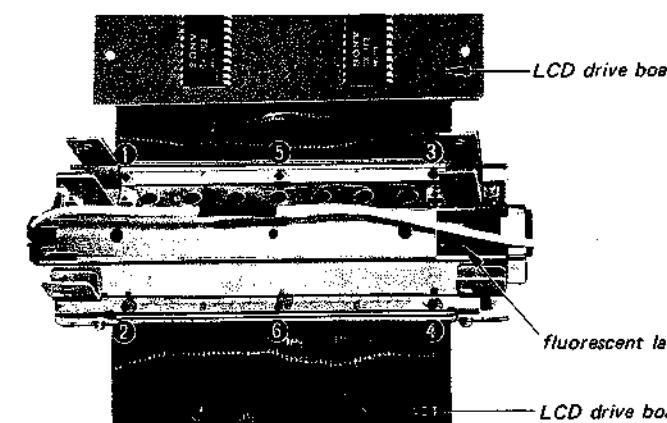


INSTALLATION OF LCD DRIVE BOARD

1. Insert the LCD drive board in the arrowed direction.

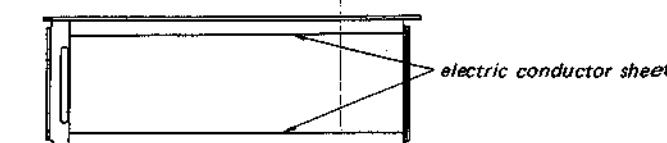


2. Tighten six screws (SC, hexagonal socket) in the numerical order (① - ⑥).



SERVICING PRECAUTIONS

- * The liquid crystal peak program meter assembly and the LCD (liquid crystal) drive board are connected by electric conductor sheets (the black bands). This conductor plate is "pasted" onto the liquid crystal assembly, and must not be removed during repairs.
- * To check for any defects in the liquid crystal meter and the IC (CX-762), interchange the L-CH and R-CH input connectors to the flexible circuit board.
- * Since the LCD drive section is mounted on a flexible circuit board, be particularly careful whenever removing and re-installing.
- * The liquid crystal drive IC (CX-762) is a MOS-IC which also must be handled with considerable care.



SECTION 3 ADJUSTMENT

TC-K8/K8B

TC-K8/K8B

PRECAUTION

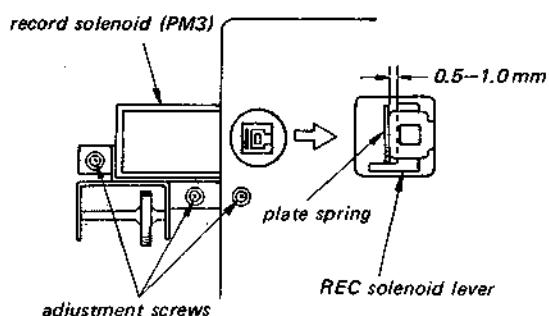
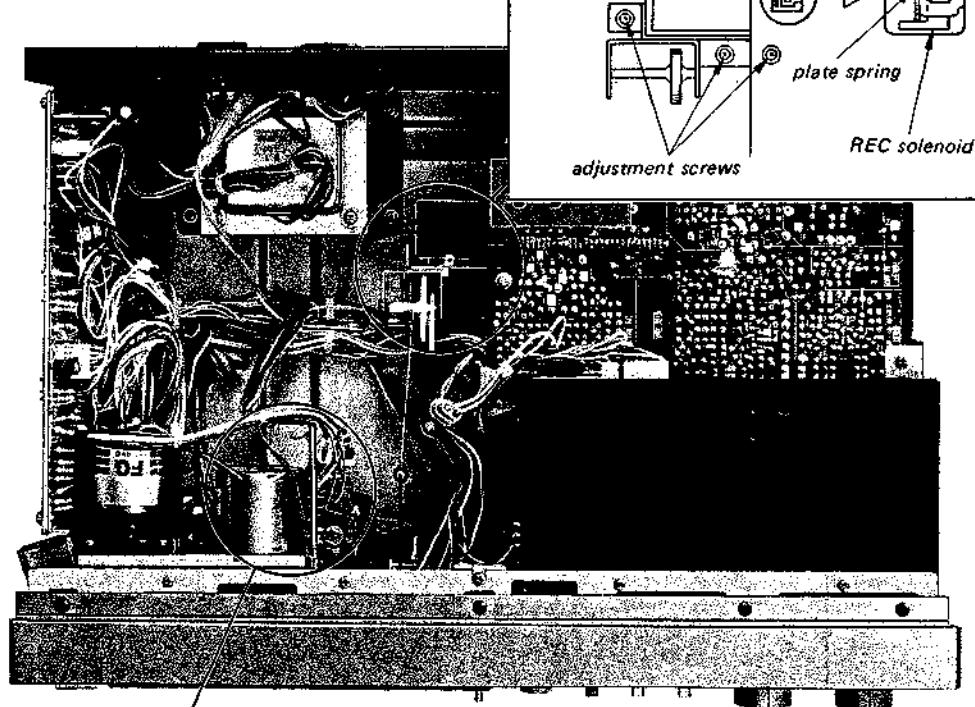
- Clean the following parts with a denatured-alcohol-moistened swab:

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

3.1. MECHANICAL ADJUSTMENTS

Record Solenoid Position Adjustment

Adjust the record solenoid position to obtain the specified clearance between plate spring and record solenoid lever.

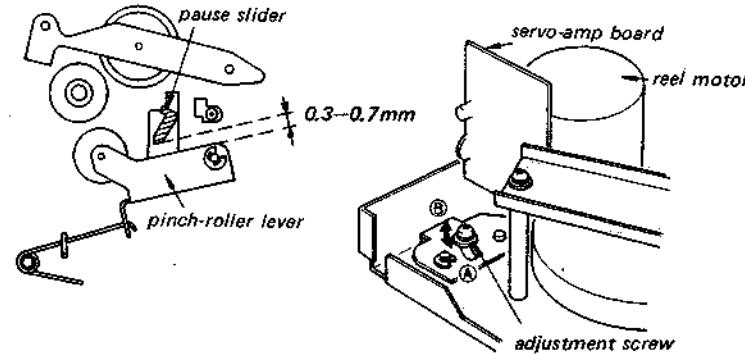


Pause Lever Position Adjustment

- PAUSE mode -

Loosen the adjustment screw and slide it in the direction (A) or (B) to obtain the specified clearance as shown below.

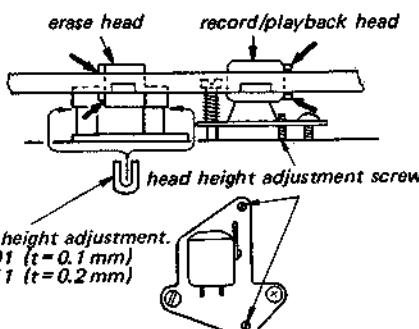
Sliding direction of adjustment screw	Clearance
direction (A)	narrow
direction (B)	wide



Tape Path Adjustment

- playback mode -

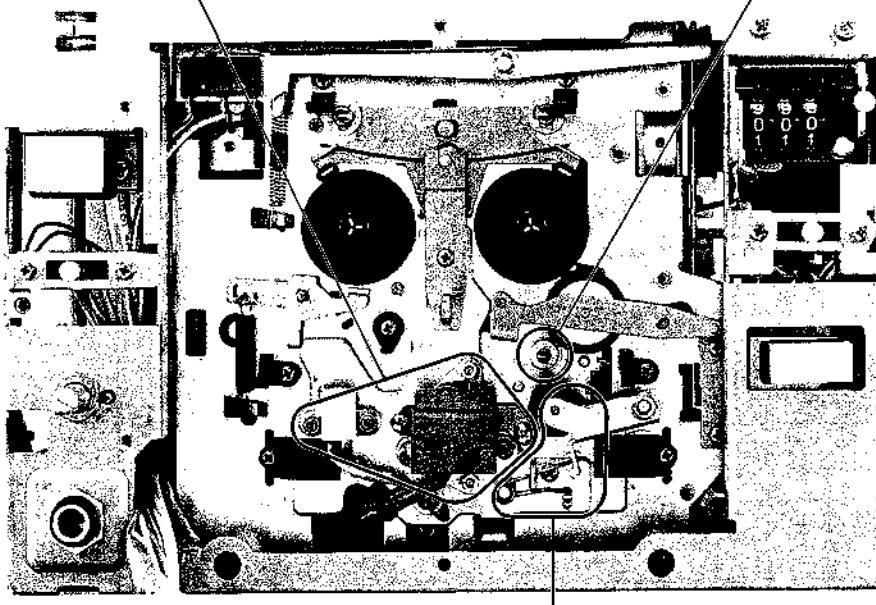
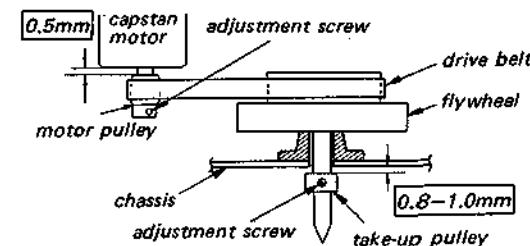
- Adjust erase head height by adding or removing spacer to eliminate tape curl at the erase head.
- Adjust record/playback head height adjustment screw to eliminate tape curl at the record/playback head.



Pulley Height Adjustment

- stop mode -

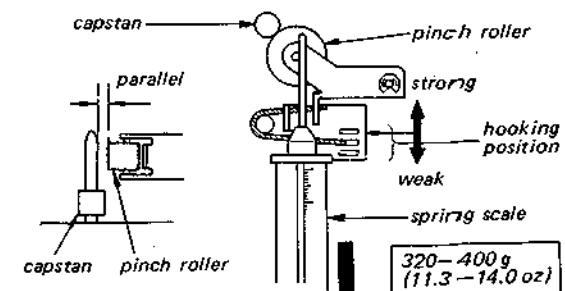
Adjust position of capstan motor pulley and take-up pulley to obtain the specified clearances as shown below.

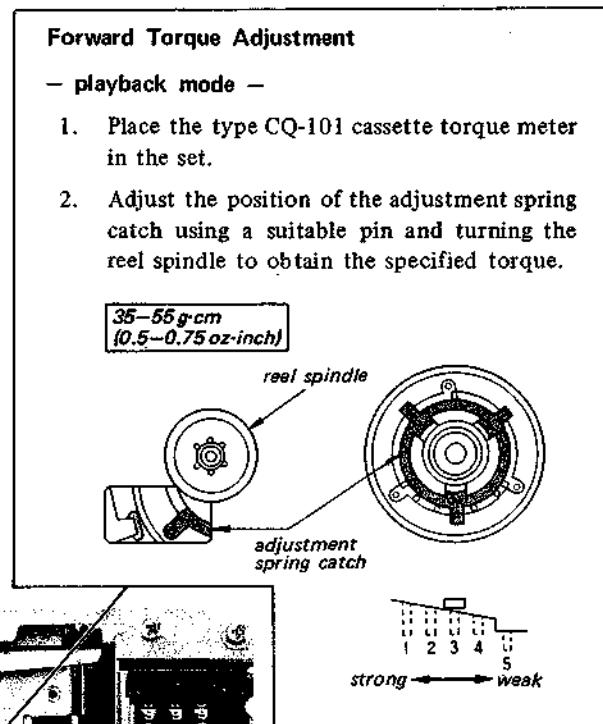
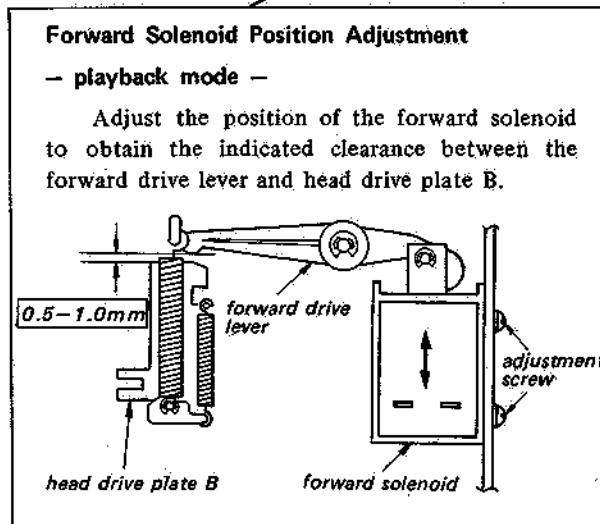
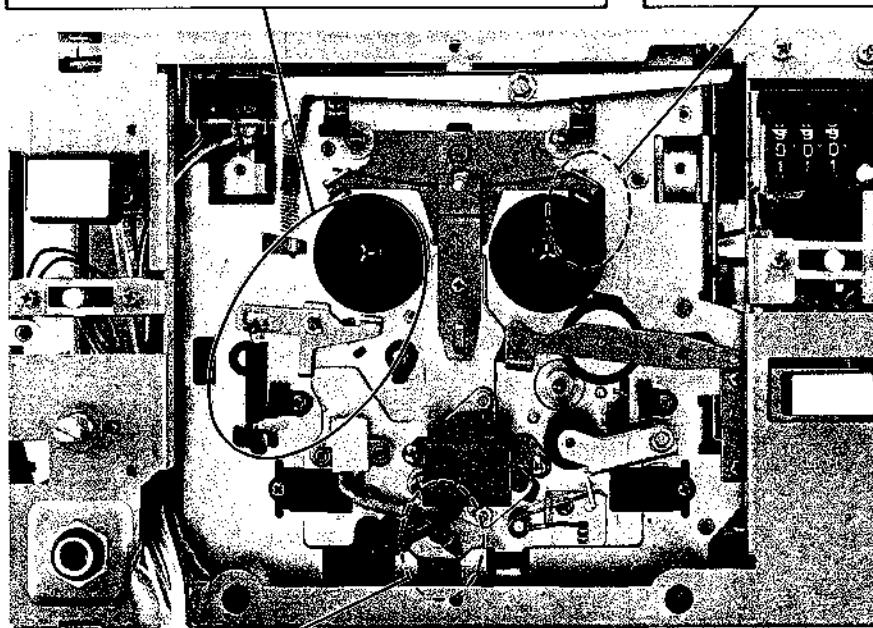
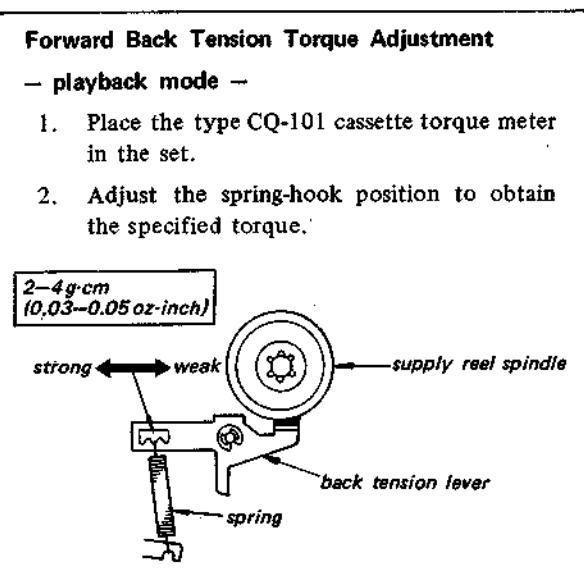


Pinch Roller Pressure Adjustment

- playback mode -

- Pull the spring scale.
- Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
- If necessary, change the hooking position.





Fast Forward and Rewind Torque Measurement

Use type CQ-201 cassette torque meter.

Fast Forward Torque: 75-130 g·cm
(1.1-1.8 oz·inch)

Rewind Torque: 75-130 g·cm
(1.1-1.8 oz·inch)

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.

Test Equipment/Tools Required:

audio oscillator (af osc)
VTVM
digital frequency counter
speed checker SONY LFM-30
oscilloscope
attenuator (600 Ω)
non-magnetic screwdriver
resistors ... 600 Ω (1/4 W), 10 kΩ (1/4 W),
100 kΩ (1/4 W)
blank tapes (completely erased with bulk eraser)
SONY CS-10 (HF), CS-20 (CrO₂),
CS-30 (Fe-Cr)

BIAS and EQ switch settings in accordance with tape used are as follows.

Tape	BIAS switch	EQ switch
CS-10	NORMAL	NORMAL
CS-20	HIGH	CrO ₂
CS-30	NORMAL	Fe-Cr

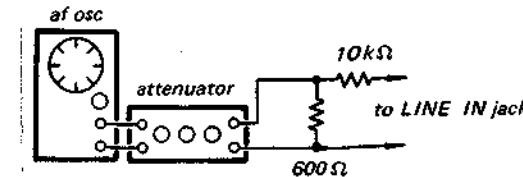
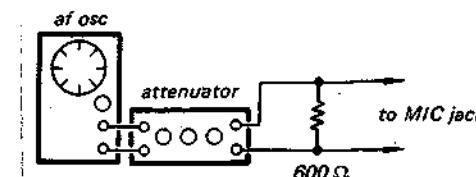
SONY test tapes
P-4-A81S (6.3 kHz, -10 dB)
P-4-A82 (10 kHz, -10 dB)
P-4-L81 (333 Hz, 0 dB)
WS-48 (3 kHz, 0 dB)

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

DOLBY NR switch:	OFF
LINE OUT control:	MAX
EQ switch:	NORMAL
BIAS switch:	NORMAL
HEADPHONE LEVEL:	MAX
TIMER switch:	OFF
MEMORY switch:	OFF
LIMITER switch:	OFF
REC MUTE switch:	OFF

Test Equipment Connections:

Input side:



Standard Record:

Supply the standard input level signal to the input jack and set the MIC or LINE control to obtain the standard output level signal. Set the LINE control to MIN when MIC is used or set MIC control to MIN when LINE IN is used.

Standard Input Level

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

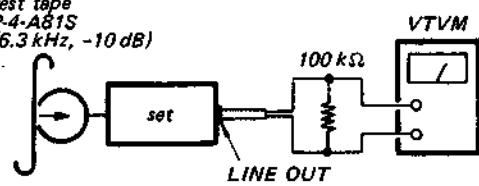
Standard Output Level

	LINE OUT	HEADPHONES
load impedance	100 kΩ	8Ω
output level	0.775V (0 dB)	0.12V (-16 dB)

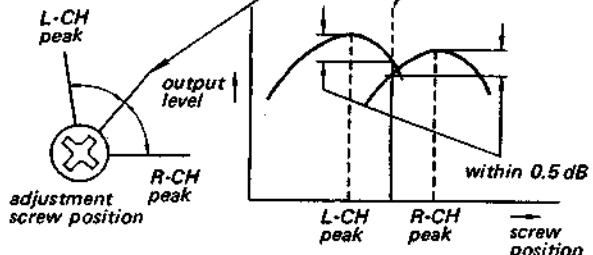
Record/playback Head Azimuth Adjustment

Procedure:

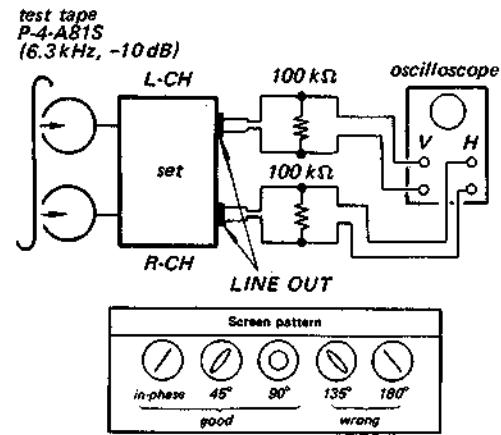
1. Mode: Playback
test tape P-4-A81S (6.3 kHz, -10 dB)



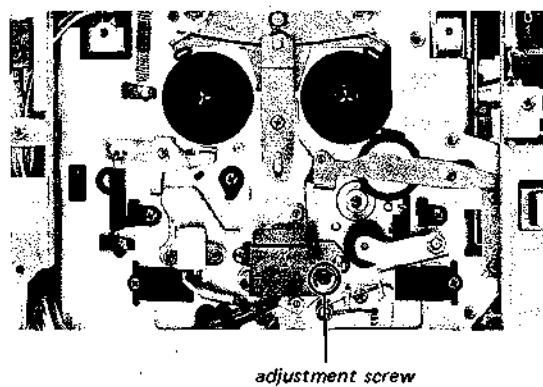
2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak position.



3. Mode: Playback
test tape P-4-A81S (6.3 kHz, -10 dB)



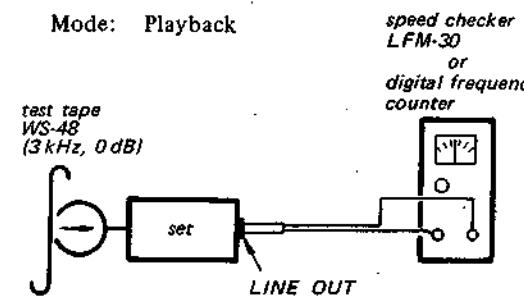
Adjustment Location:



Tape Speed Adjustment

Procedure:

1. Mode: Playback
test tape WS-48 (3 kHz, 0 dB)



Adjust RV601 to obtain the specified values below.

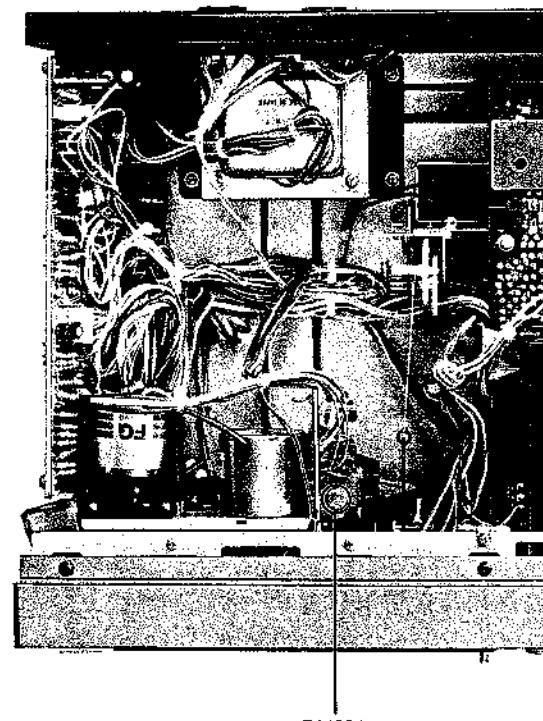
Specification:

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

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

Adjustment Location:

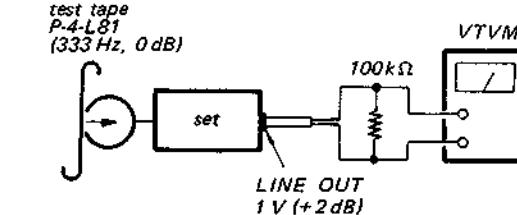
— servo amp board —



Playback Level Adjustment

Procedure:

1. Mode: Playback
test tape P-4-L81 (333 Hz, 0 dB)



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain 1V (+2 dB) VTVM reading.

2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

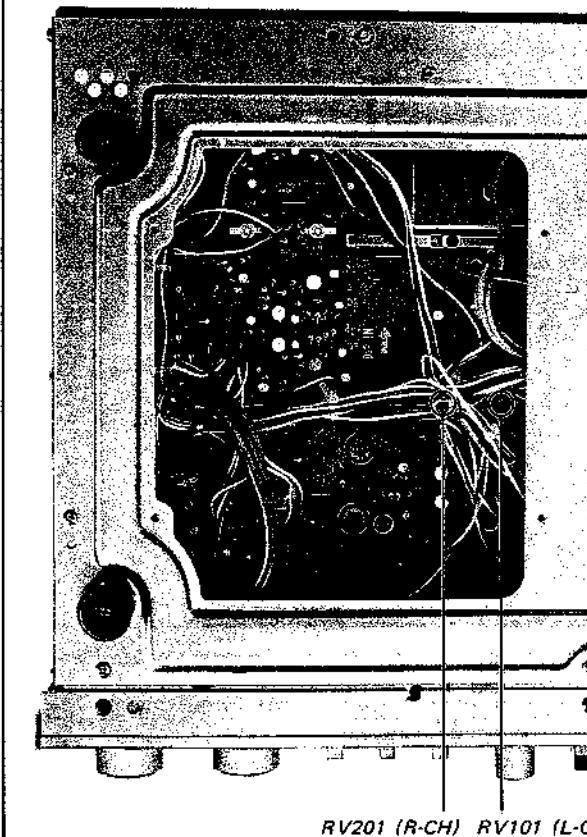
Specification:

LINE OUT level: 0.92–1.05 V (+1.5→+2.5 dB)

Level difference between channels: less than 0.5 dB

Adjustment Location:

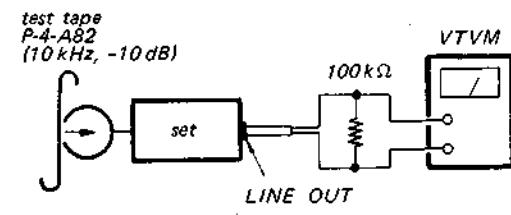
— record/playback board —



Playback Equalizer Adjustment

Procedure:

1. Mode: Playback
test tape P-4-A82 (10 kHz, -10 dB)

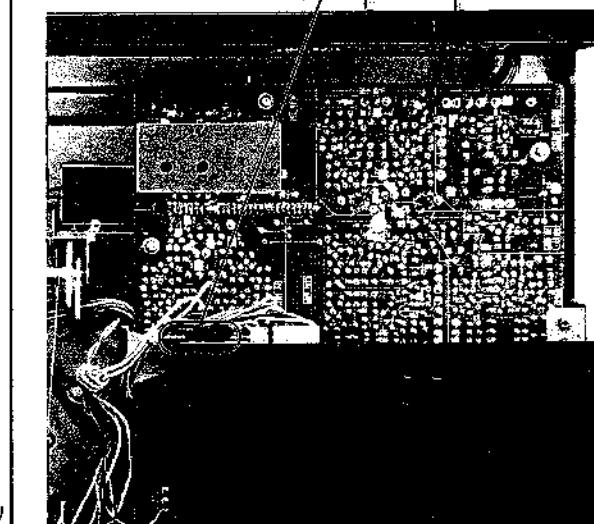
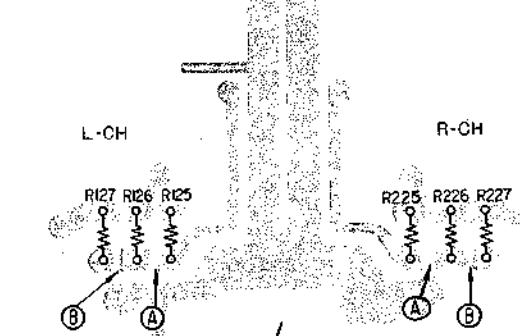


Adjust pattern connections for 0.27–0.37 V (-9.5→-6.5 dB) VTVM reading.

Adjustment Location:

— record/playback board —

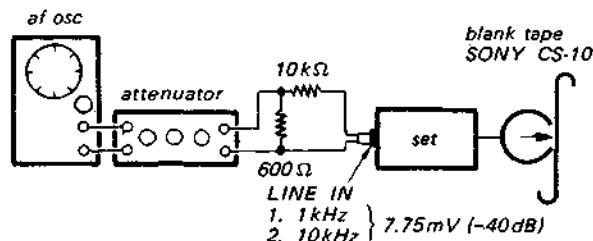
Pattern connection	VTVM reading
(open)	up
Ⓐ	
Ⓐ and Ⓑ	down



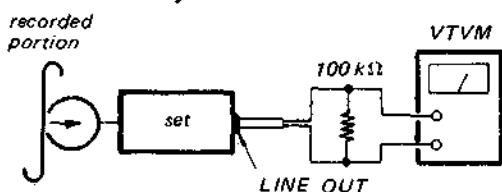
Note: After this adjustment, confirm the playback level.

Record Bias Adjustment**Procedure:**

1. Mode: Standard record (See page 18.)



2. Mode: Playback



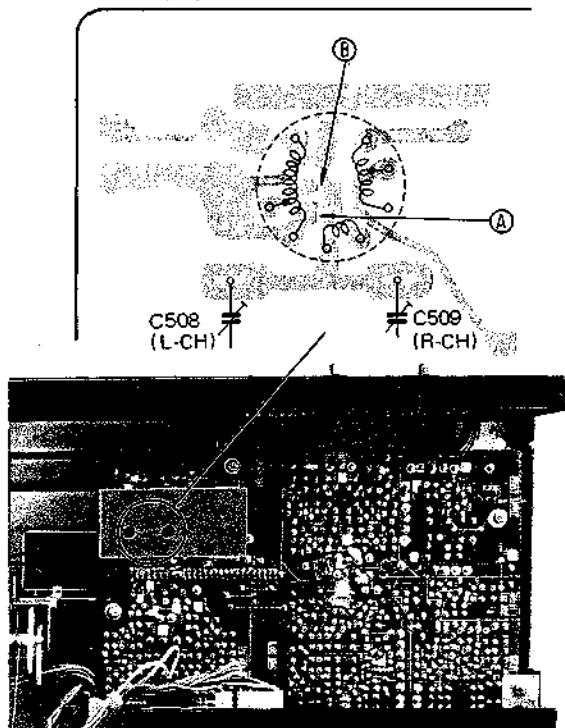
Adjust C508 (L-CH) and C509 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

Level difference between the two output levels: within 0.5 dB

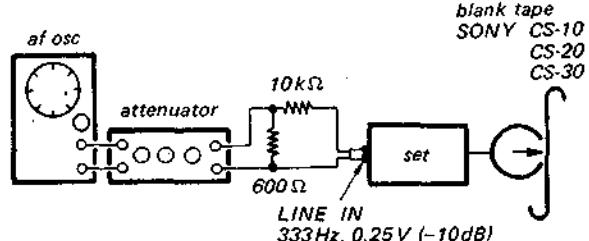
Adjustment Location:

Note: Normally, patterns at (A) are bridged. If adjustment is not made with trimmers fully tightened, remove solder bridge at (A) and bridge patterns at (B), and repeat the adjustment.

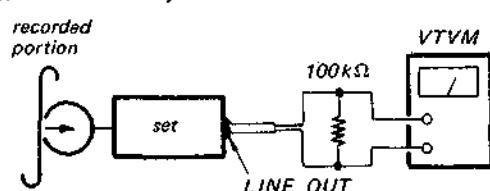
— record/playback board —

**Record Level Adjustment****Procedure:**

1. Mode: Standard record (See page 18.)



2. Mode: Playback



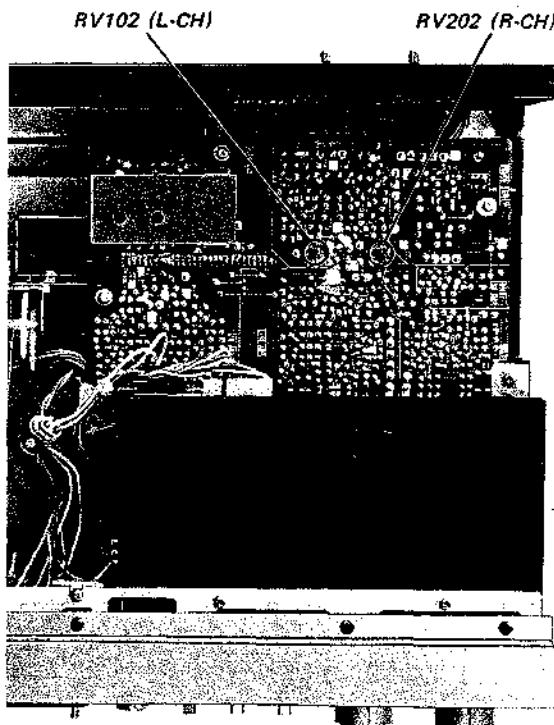
Adjust RV102 (L-CH) and RV202 (R-CH) to obtain 0.775 V (0 dB) VTVM reading.

Specification:

LINE OUT level: 0.73–0.81 V
(−0.5+0.5 dB)

Adjustment Location:

— record/playback board —

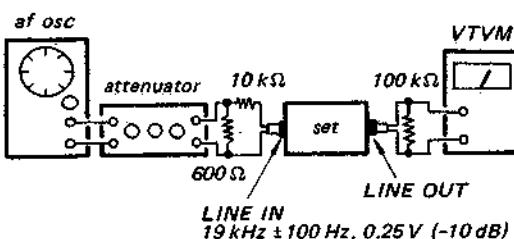


TC-K8/K8B

MPX Filter Adjustment

Procedure:

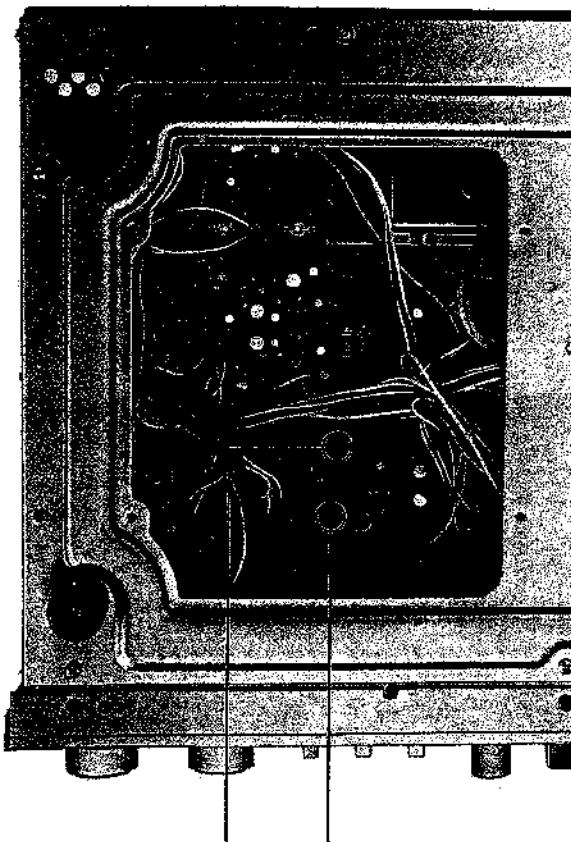
Mode: Standard record (See page 18.)
DOLBY NR switch: ON



Adjust L102 (L-CH) and L202 (R-CH) for 25 mV (-30 dB) or less VTVM reading.

Adjustment Location:

— record/playback board —

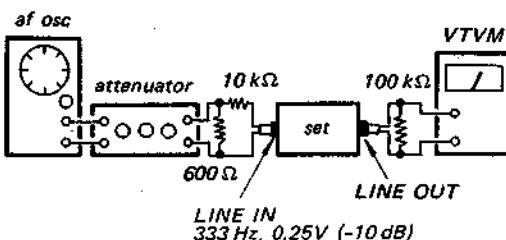


Liquid Crystal Peak Program Meter Offset/Gain Adjustment

Offset Adjustment

Procedure:

Mode: Standard record (See page 18.)



Adjust RV801 (L-CH) and RV901 (R-CH) so that the indication element of the meter places at -4 dB ± 1 element.

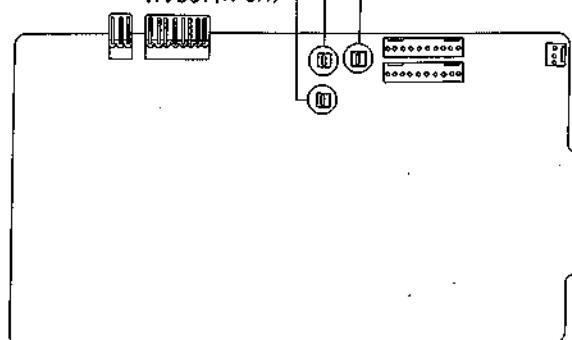
Adjustment Location:

peak program meter offset adjustment

RV801 (L-CH)
RV901 (R-CH)

peak program meter gain adjustment

RV001



— A/D converter board —

Gain Adjustment

Procedure:

Mode: Standard record (See page 18.)

By varying LINE IN level for the specified LINE OUT level, adjust RV001 so that the indication element places at the following position.

LINE OUT	Indication Element Position
8 dB	4 dB ± 1 element
4 dB	0 dB ± 1 element
-6 dB	-10 dB ± 1 element
-26 dB	-30 dB ± 1 element
-41 dB	the leftmost element only

**SECTION 4
DIAGRAMS**

TC-K8/K8B **TC-K8/K8B**

4-1. SCHEMATIC DIAGRAM — Audio Amp Section —

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

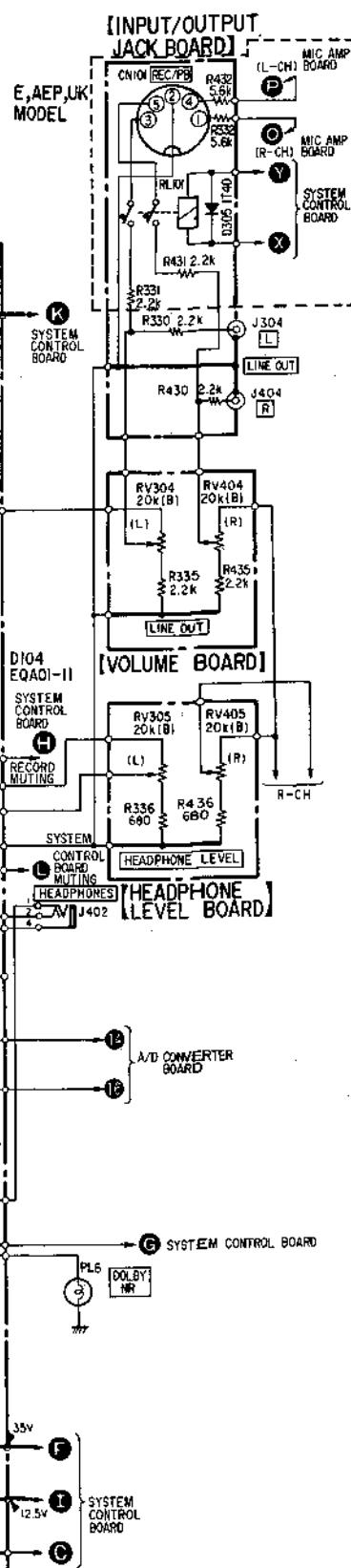
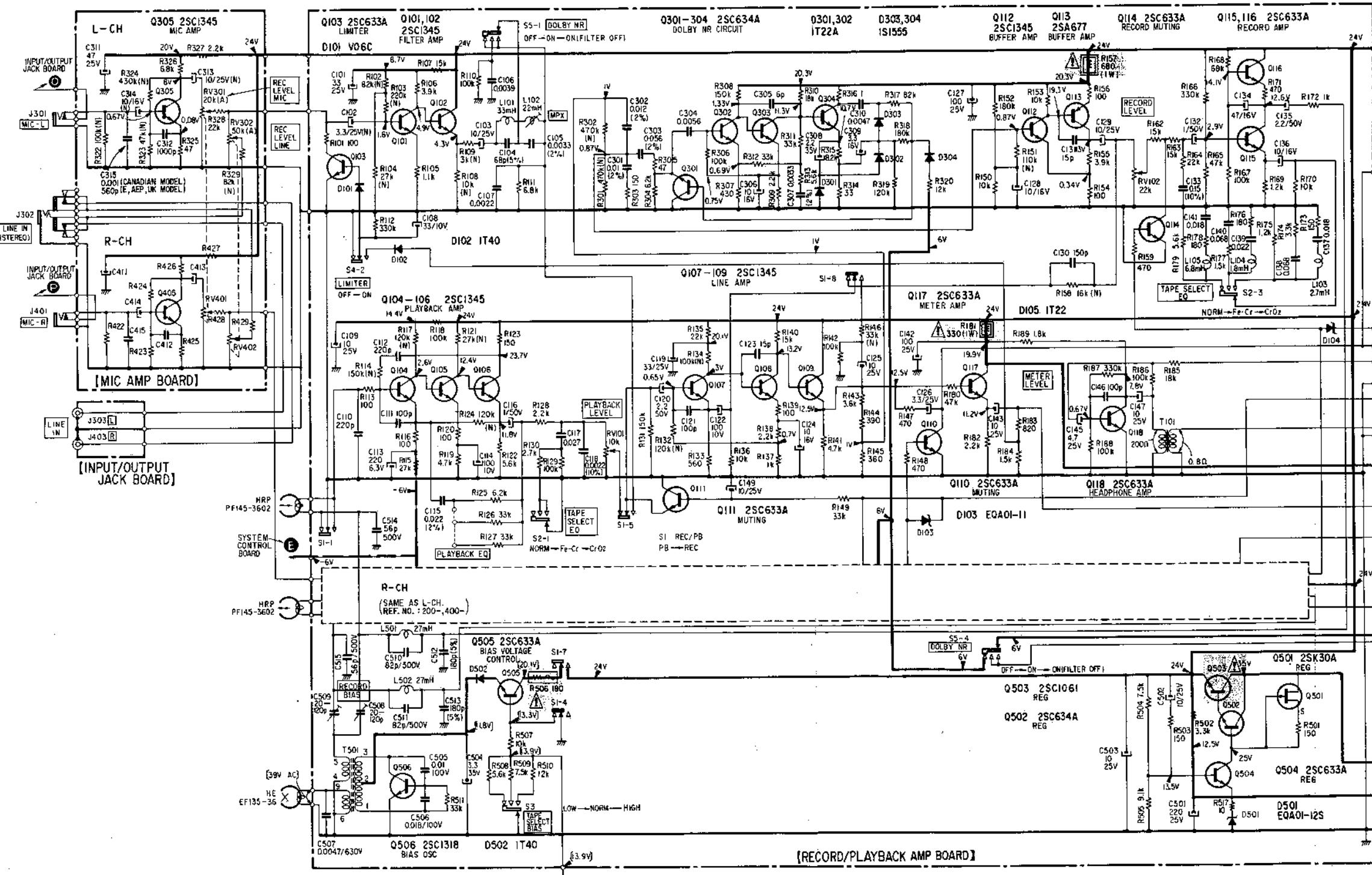
Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

-  : B+ bus.
-  : B- bus.
-  : panel designation.
-  : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- All resistors are in ohms, %W unless otherwise noted.
 $R_0 = 1000\Omega$, $M_0 = 1000k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
- (N) : low-noise capacitor and resistor.
- 2% indicates component tolerance.

-  : adjustment for repair.
-  : record mode
- Readings are taken in playback mode (indicated by ) with a VOM (20k Ω /V).
- [] : record mode
- AC voltage readings in the bias oscillator circuit are taken with a VTVM.

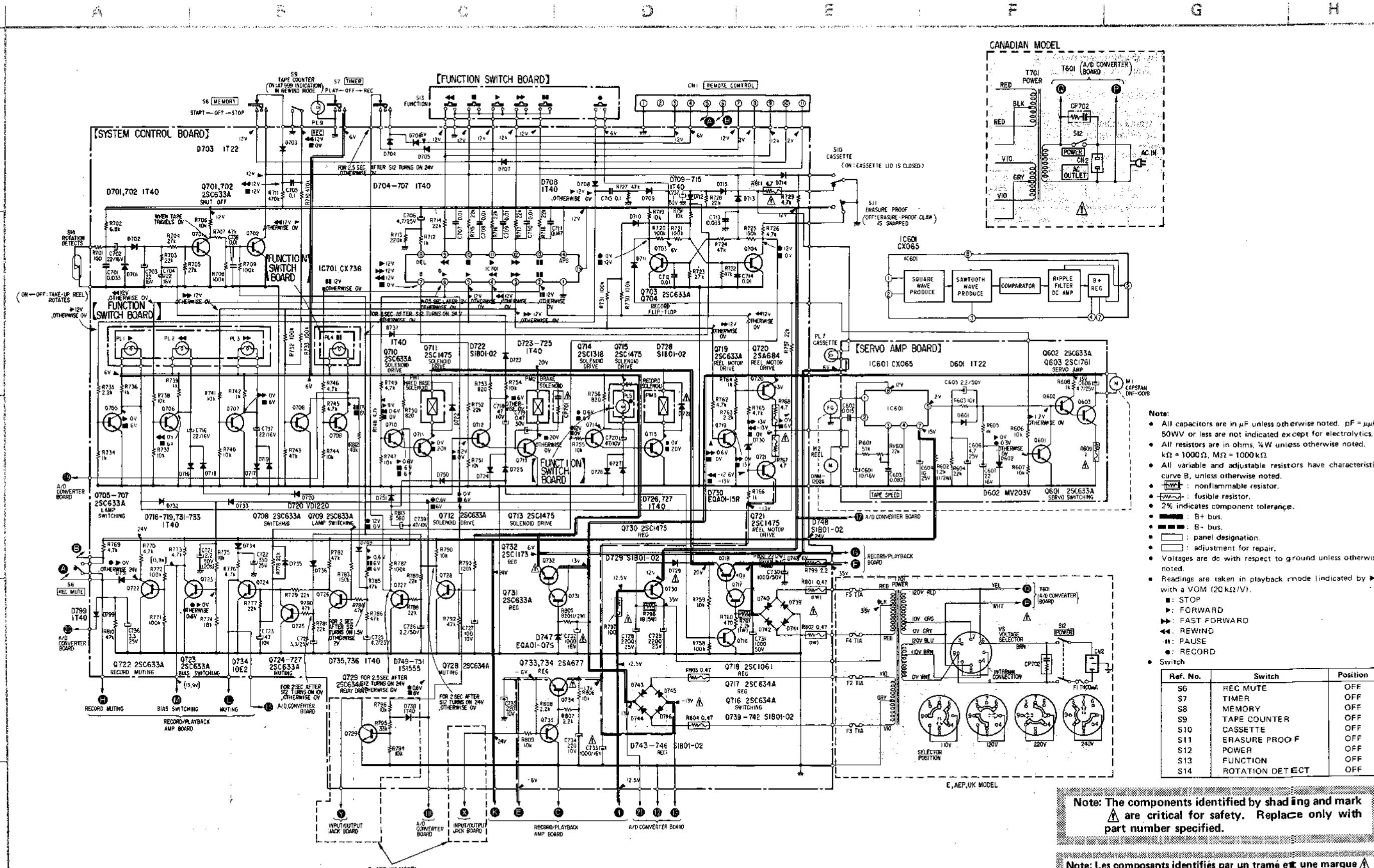
• Switch

Ref. No.	Switch	Position
S1	REC/PB	PB NORMAL
S2	TAPE SELECT EQ	LOW
S3	TAPE SELECT BIAS	OFF
S4	LIMITER	DOLBY NR
S5	DOLBY NR	OFF



TC-K8/K8B TC-K8/K8B

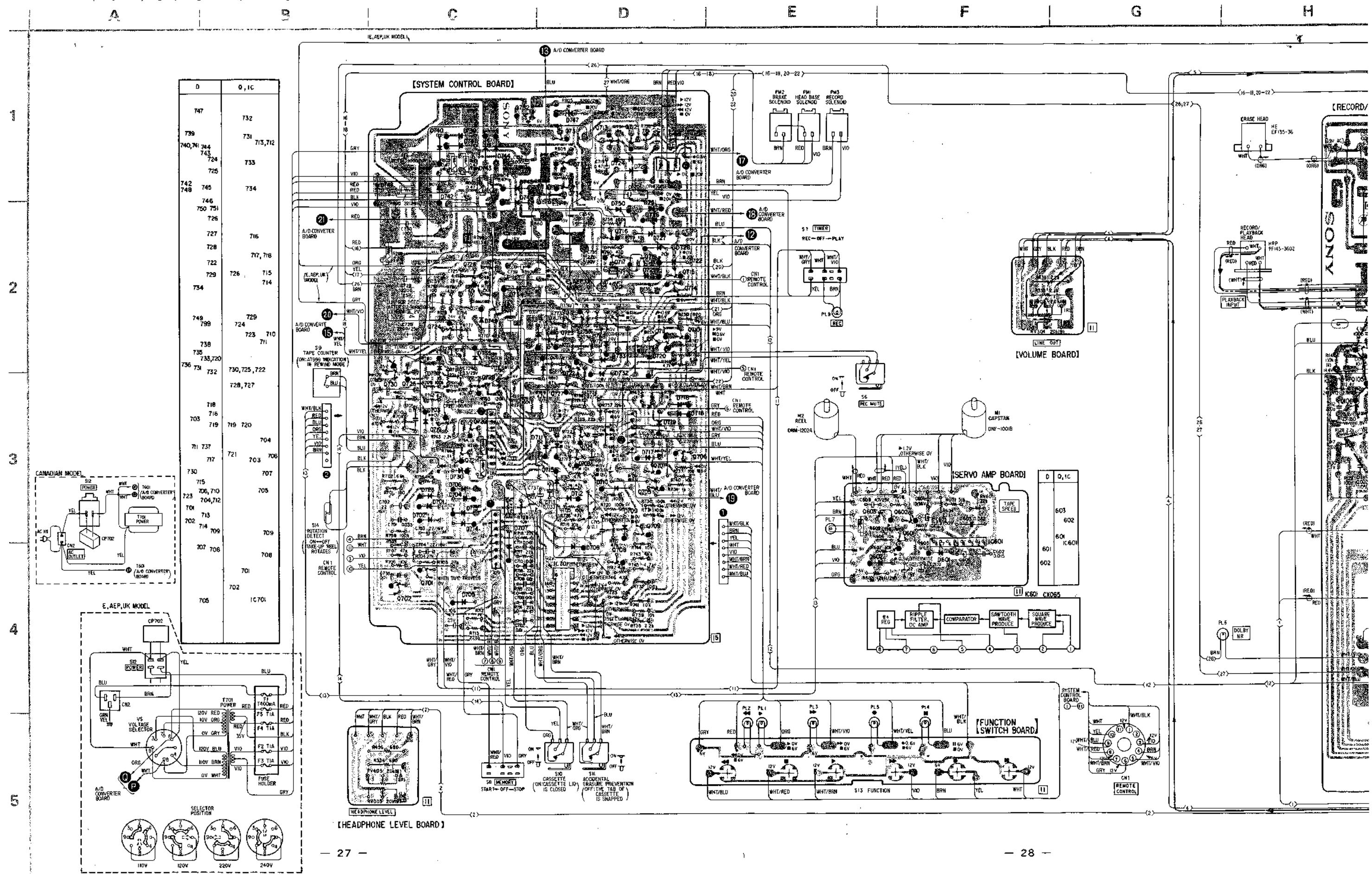
4-2. SCHEMATIC DIAGRAM — System Control Section —

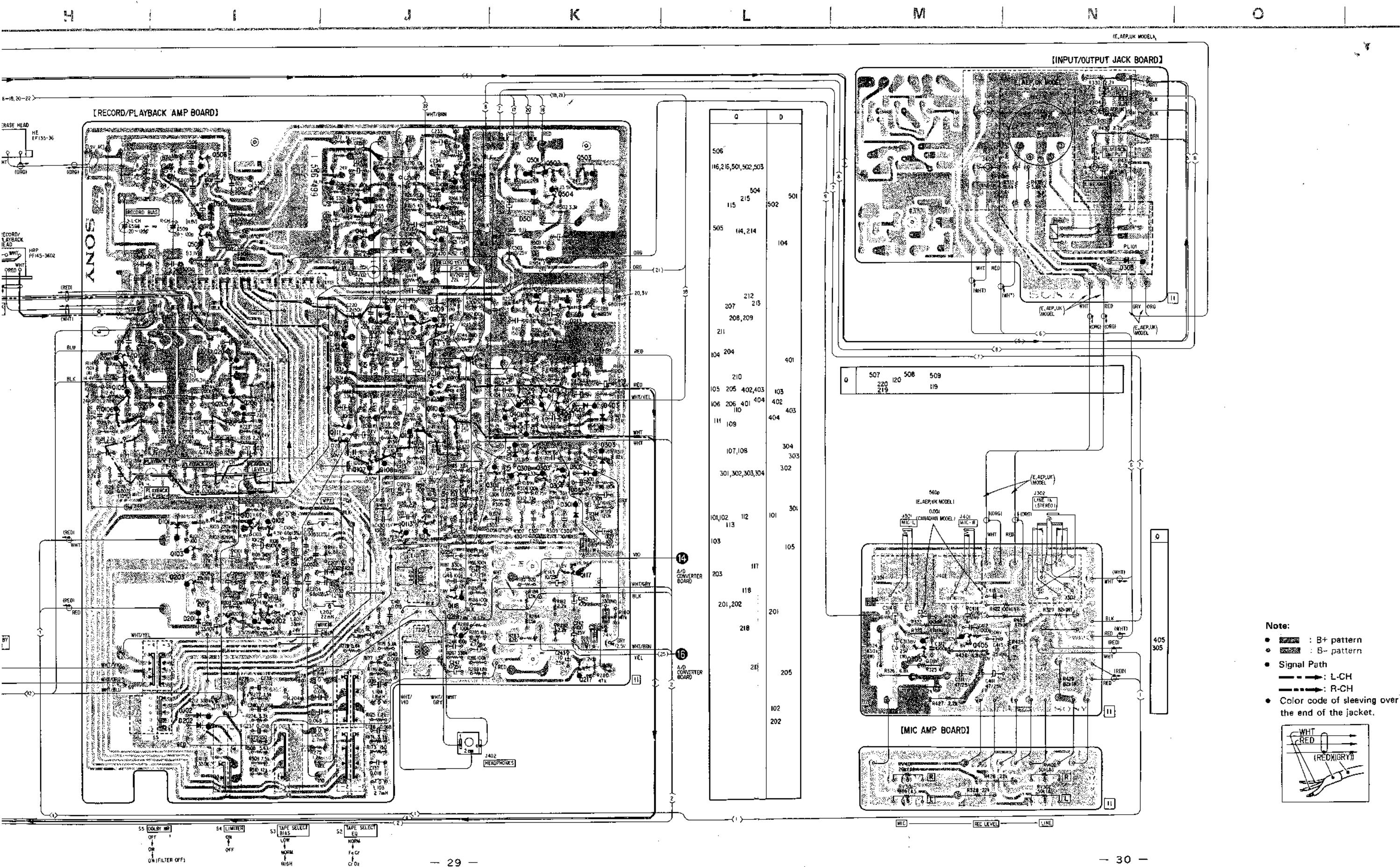


4-3. MOUNTING DIAGRAMS — *Conductor Side* —

TC-K8/K8B

System Control, Headphone Level, Line Out, Servo Amp, Function Switch Record/Playback, Input/Output Jack, Mic Amp Circuit Board.





55 (EJECT MR)
OFF
ON
ON (FILTER OFF)

54 (LIMITER)
ON
OFF

S3 (TAPE SELECT)
BIAS
LOW
HIGH

S2 (TAPE SELECT)
EQ
NORM
Fe Cr
Gr Gz

S1 (2)

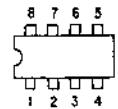
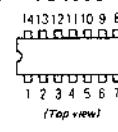
4-4. MOUNTING DIAGRAMS — Conductor Side —

A/D Converter, LCD Drive Circuit Board

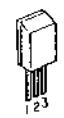
● A/D CONVERTER BOARD

Replacement Semiconductors

For replacement, use semiconductors except in ().

IC1-3, 5: μPC4558C (μPC4558)
IC4, 11: μPC1458C (μPC1458)IC6: TC4024P (TC4024)
IC7-9: CD4069
IC12: TC4081P (TC4081)
IC13: TC4068P (TC4068)

IC15: μPC78L05



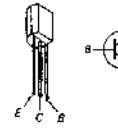
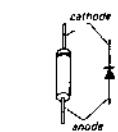
IC16: μA79M05



IC801, 802, 901, 902: CX762



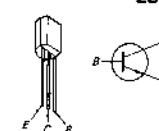
Q001-003, 801: 2SC1364 (2SC1363)

D001-004): 1S1555
D801, 810): 1S1555

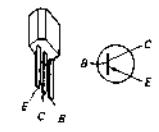
● RECORD/PLAYBACK AMP BOARD

Replacement Semiconductors

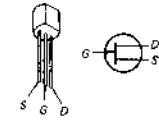
For replacement, use semiconductors except in ().

Q101, 102, 104-107
Q112, 305, 201, 202): 2SC1362 (2SC1345)
Q204-207, 212, 405
Q108, 109, 208, 209): 2SC1364 (2SC1345)
Q103, 110, 111
Q114-118, 203, 210
Q211, 214-218
Q301-304, 401-404
Q504, 505, 728
Q502: 2SC1364

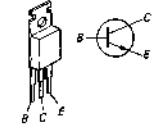
Q113, 213: 2SA678 (2SA677)



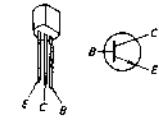
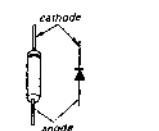
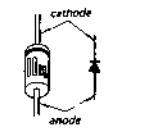
Q501: 2SK30A



Q503: 2SC1061



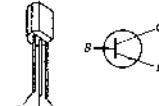
Q506: 2SC1475 (2SC1318)

D101, 201): 10E2 (V06C)
D102, 202): 1S1555 (1T40)
D502
D301, 302): 1T22AM
D401, 402)
D303, 304): 1S1555
D403, 404): 1S1555D103, 104): EQB01-11Z (EQA01-11)
D203, 204): EQB01-12Z (EQA01-12S)
D501:

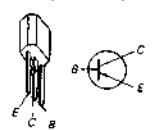
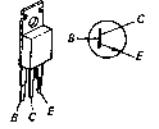
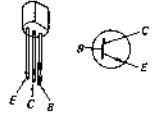
● SYSTEM CONTROL BOARD

Replacement Semiconductors

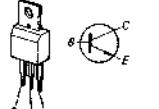
For replacement, use semiconductors except in ().

Q601, 602, 701-710
Q712, 719, 722-729): 2SC1364 (2SC633A)
Q731
Q716, 717, 728): 2SC634A
D701, 702, 704-707
D709-721, 723-727): 1S1555 (1T40)
D731-733, 735-738): 10E2 (SIB01-02)
D749-751, 799
D722, 728, 729): 10E2
D739-746, 748): 1T22AM (1T22)
D601, 703, 708): 1T22AM (1T22)

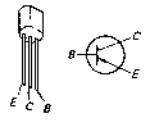
Q733, 734: 2SA678 (2SA677)

Q718: 2SC1061
Q732: 2SC1173Q711, 713-715): 2SC1475
Q721, 730
Q714: (2SC1318)

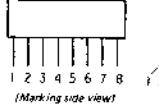
Q603: 2SC1760 (2SC1761)



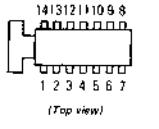
Q720: 2SA684



IC601: CX065A (CX065)

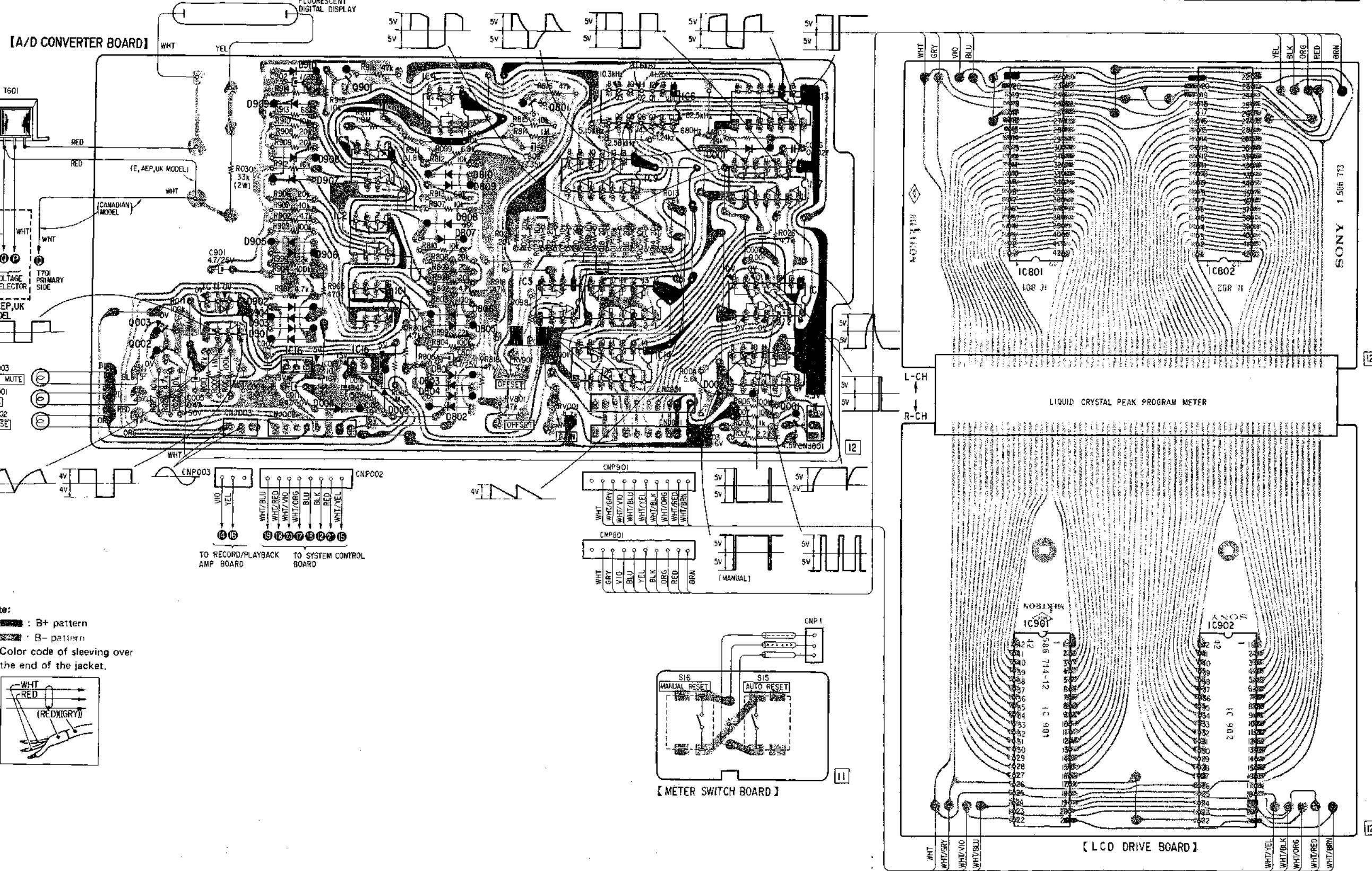


IC701: CX738A (CX738)

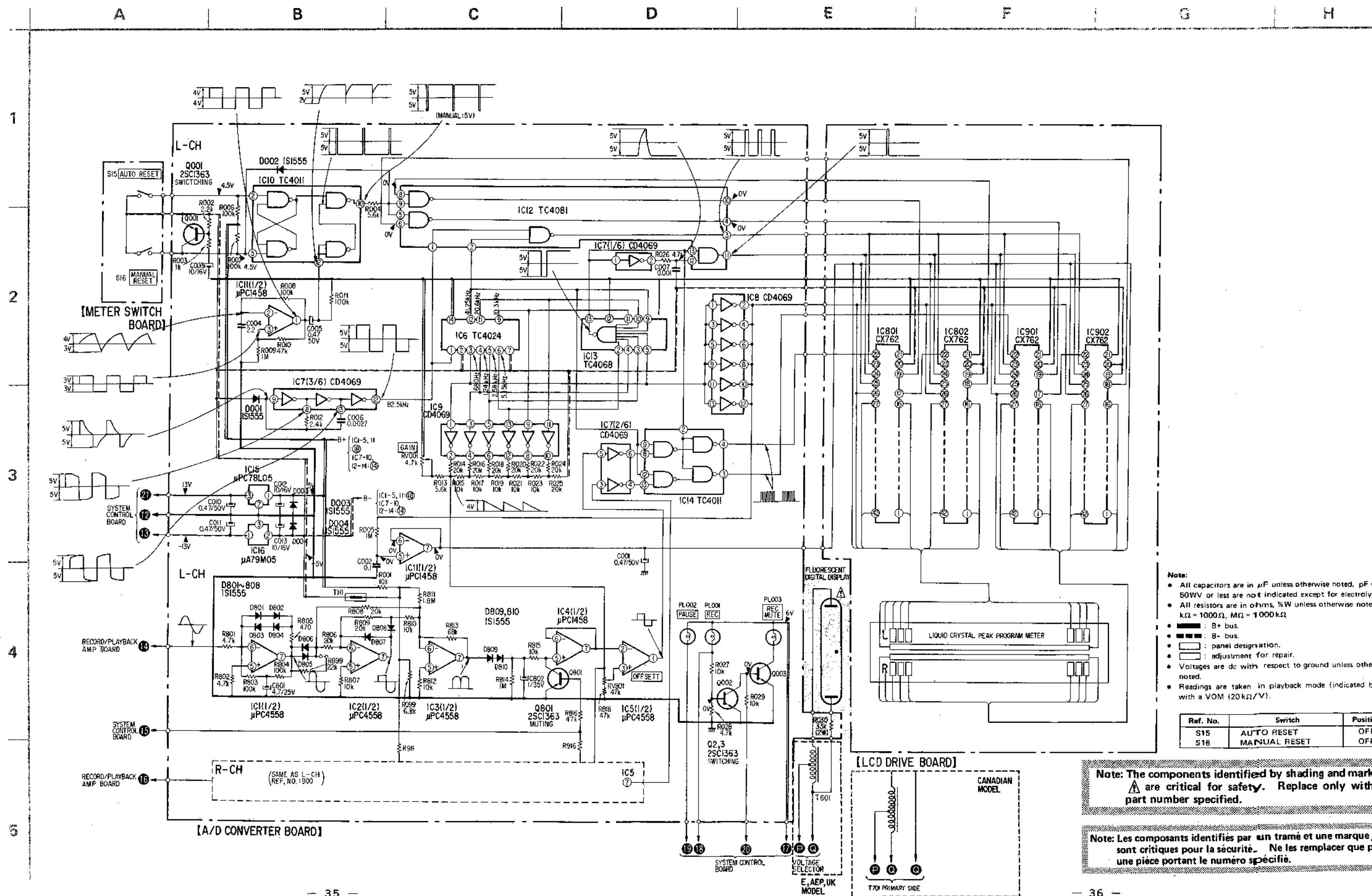


A B C D E F G H

Q IC	003 002	IC11	901	IC3 IC2 IC1 IC15	IC4	801	IC5	IC9 IC8 IC14	IC6	IC13 IC7 IC12 IC10 001	002	001	IC801	IC802	O IC
D			901 910	004	003	801 810							IC901	IC902	D



4-5. SCHEMATIC DIAGRAM - A/D Converter Section -

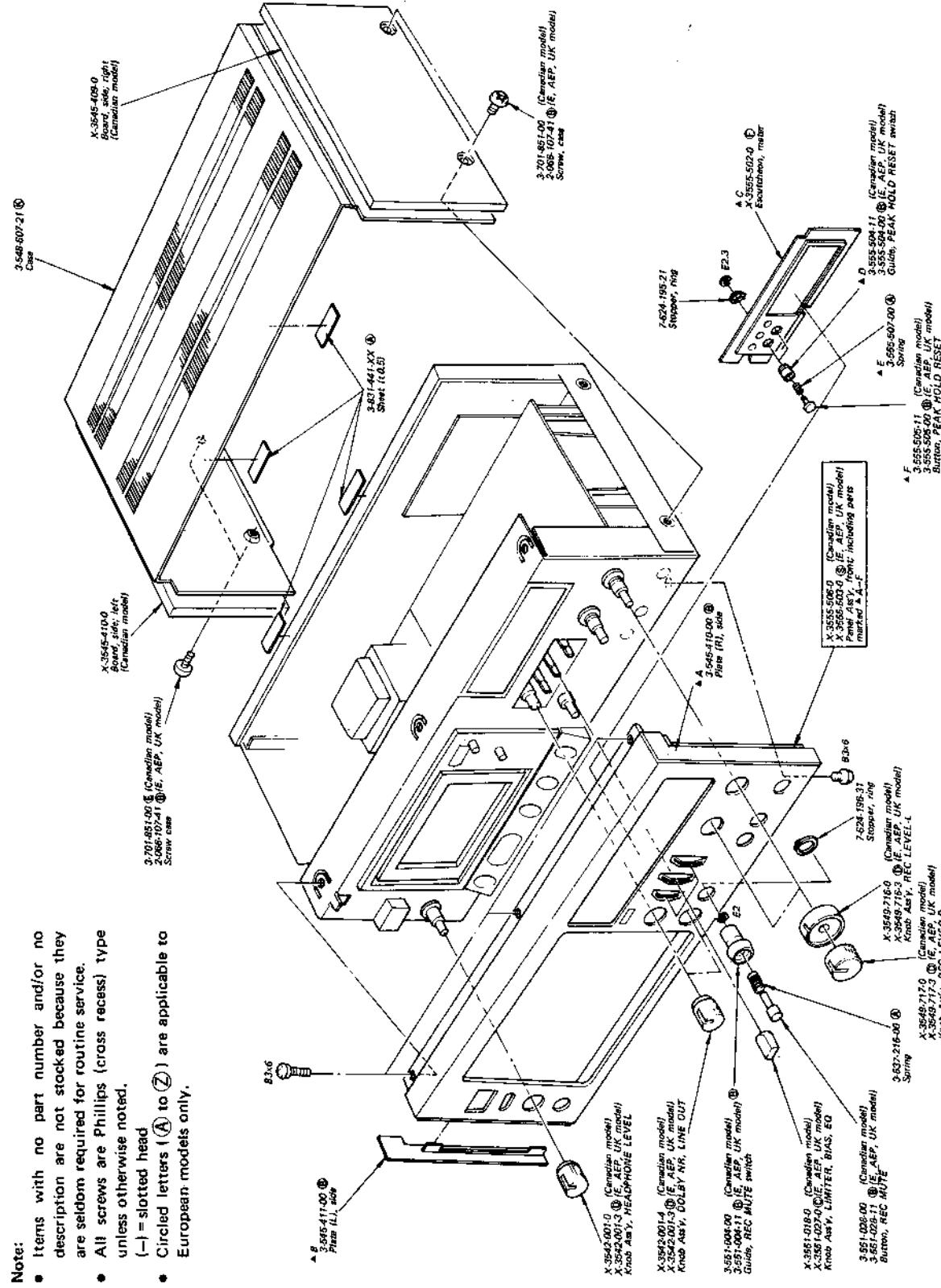


TC-K8/K8B

SECTION 5 EXPLODED VIEWS

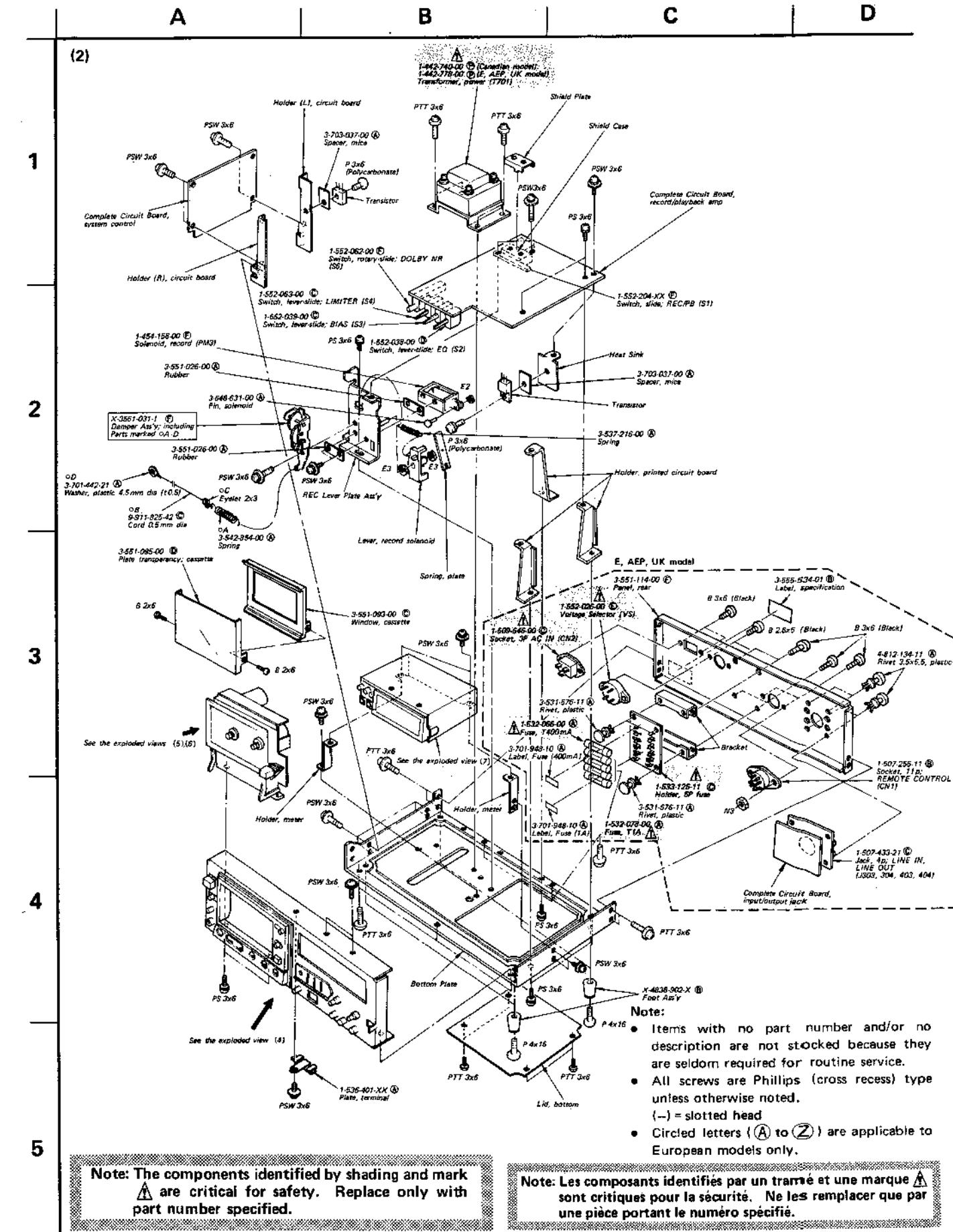
- Note:**

 - 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
 - Circled letters (**A** to **Z**) are applicable to European models only.



A horizontal number line starting at 1 and ending at 4. There are tick marks at each integer value, with vertical dashed lines extending downwards from each tick mark.

- 37 -



Note: The components identified by shading and marked with a  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.

Note:

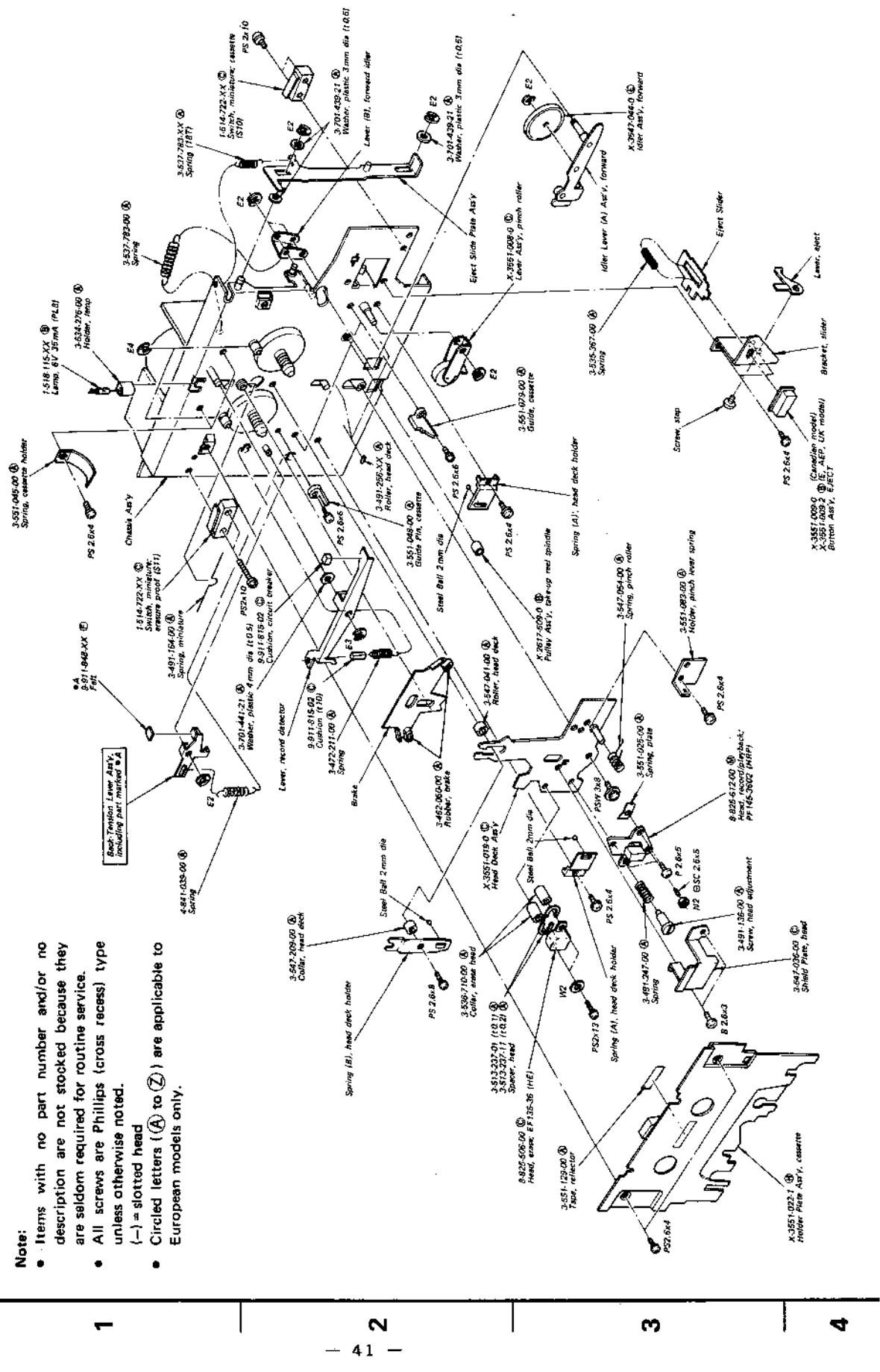
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head
- Circled letters (**A** to **Z**) are applicable to European models only.

TC-K8/K8B

TC-K8/K8B

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
- Circled letters (**A** to **Z**) are applicable to European models only.



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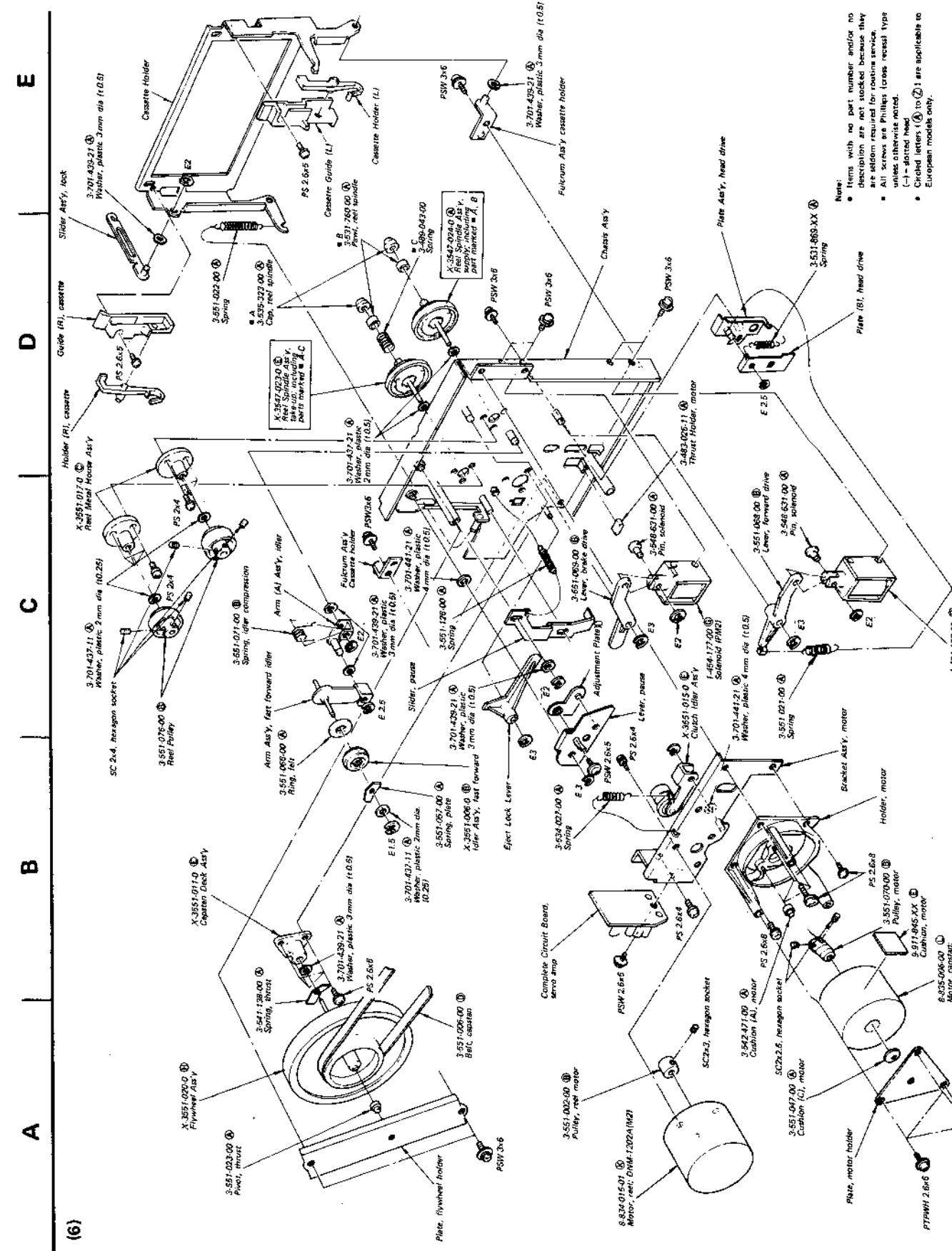
- 41 -

3

1

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
- Circled letters (**A** to **Z**) are applicable to European models only.



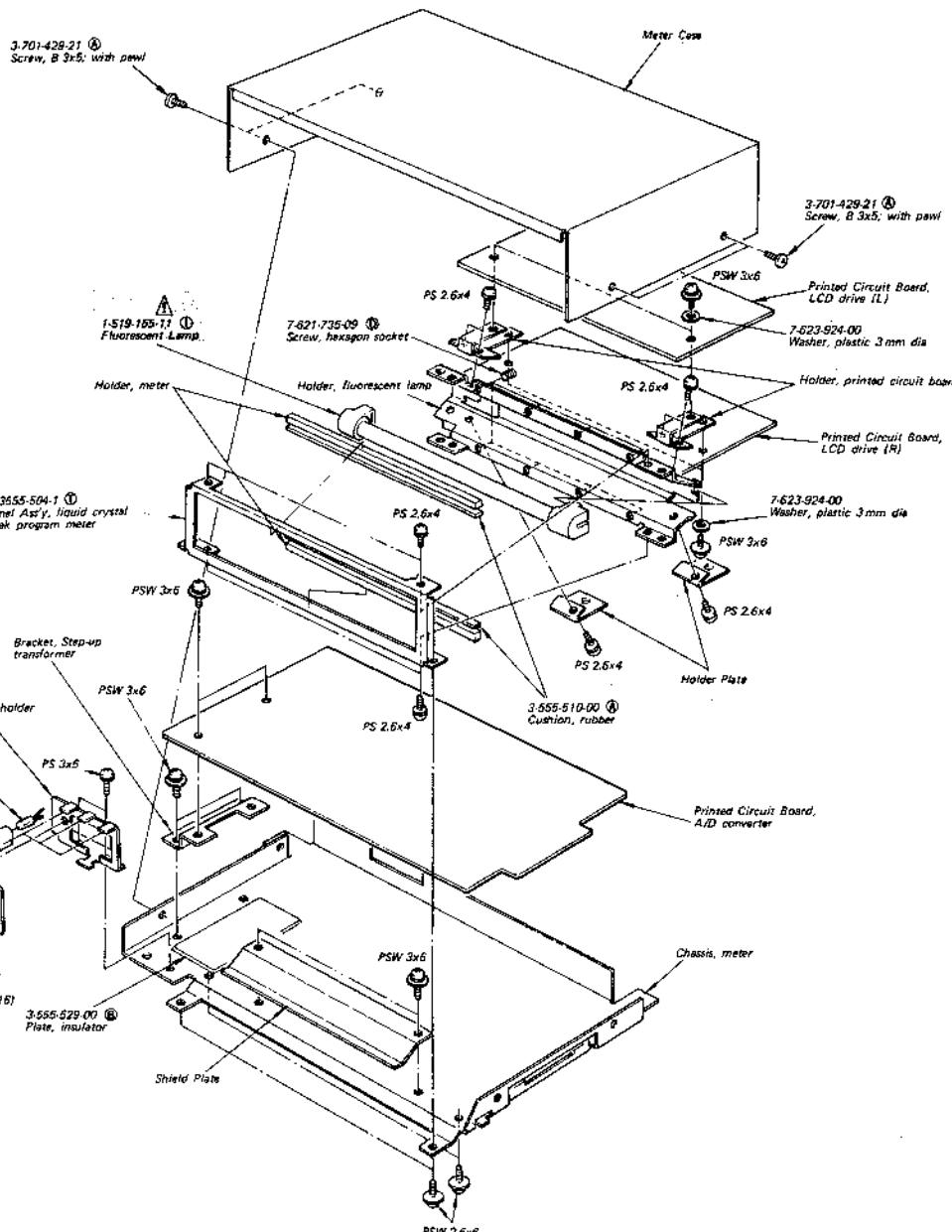
1

37

- 41 -

A | B | C | D

{7}



No

- 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.

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.

1/4 WATT CARBON RESISTORS

Note: Circled letter A is applicable to European model only.

Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10k	1-244-697-11	100k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11k	1-244-698-11	110k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12k	1-244-699-11	120k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13k	1-244-700-11	130k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15k	1-244-701-11	150k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16k	1-244-702-11	160k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18k	1-244-703-11	180k	1-244-737-11	1.8M	1-244-751-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20k	1-244-704-11	200k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22k	1-244-705-11	220k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24k	1-244-706-11	240k	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27k	1-244-707-11	270k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30k	1-244-708-11	300k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33k	1-244-709-11	330k	1-244-733-11	3.3M	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36k	1-244-710-11	360k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39k	1-244-711-11	390k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3k	1-244-688-11	43k	1-244-712-11	430k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47k	1-244-713-11	470k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51k	1-244-714-11	510k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56k	1-244-715-11	560k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644-11	620	1-244-668-11	6.2k	1-244-692-11	62k	1-244-716-11	620k	1-244-740-11		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68k	1-244-717-11	680k	1-244-741-11		
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5k	1-244-694-11	75k	1-244-718-11	750k	1-244-742-11		
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11	82k	1-244-719-11	820k	1-244-743-11		
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91k	1-244-720-11	910k	1-244-744-11		

HARDWARE NOMENCLATURE

Screw:

$\text{P} = 3 \times 10$

Type of head
Indicated slotted-head only

Unless otherwise indicated, it means

Nut, Washer, Retaining ring:

N 3
Diameter of usable screw or shaft
Reference designation

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		

SECTION 6
ELECTRICAL PARTS LIST

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

Ref. No.Part No.DescriptionRef. No.Part No.Description**SEMICONDUCTORS****Transistors**

⇒ Q001-003 8-729-663-47 Ⓛ 2SC1364

⇒ Q101,201 8-729-665-47 Ⓛ 2SC1362

⇒ Q102,202 8-729-663-47 Ⓛ 2SC1364

⇒ Q103,203 8-729-663-47 Ⓛ 2SC1364

⇒ Q104-107 8-729-665-47 Ⓛ 2SC1362

⇒ Q204-207 8-729-663-47 Ⓛ 2SC1362

⇒ Q108-111 8-729-663-47 Ⓛ 2SC1364

⇒ Q208-211 8-729-665-47 Ⓛ 2SC1362

⇒ Q112,212 8-729-665-47 Ⓛ 2SC1362

⇒ Q113,213 8-727-788-00 Ⓛ 2SA678

⇒ Q114-120 8-729-663-47 Ⓛ 2SC1364

⇒ Q214-220 8-729-663-47 Ⓛ 2SC1364

⇒ Q301-304 8-729-663-47 Ⓛ 2SC1364

⇒ Q401-404 8-729-663-47 Ⓛ 2SC1362

⇒ Q305,405 8-729-665-47 Ⓛ 2SC1362

⇒ Q501 8-729-203-04 Ⓛ 2SK30A

⇒ Q502 8-729-663-47 Ⓛ 2SC1364

Q503 Ⓛ 8-729-316-12 Ⓛ 2SC1061

⇒ Q504,505 8-729-663-47 Ⓛ 2SC1364

⇒ Q506 8-760-413-10 Ⓛ 2SC1475

⇒ Q507-509 8-729-663-47 Ⓛ 2SC1364

⇒ Q601,602 8-729-663-47 Ⓛ 2SC1364

⇒ Q603 8-763-314-00 Ⓛ 2SC1760

⇒ Q701-710 8-729-663-47 Ⓛ 2SC1364

Q711 8-760-413-10 Ⓛ 2SC1475

⇒ Q712 8-729-663-47 Ⓛ 2SC1364

Q713-715 8-760-413-10 Ⓛ 2SC1475

⇒ Q716,717 8-729-663-47 Ⓛ 2SC1364

Q718 Ⓛ 8-729-316-12 Ⓛ 2SC1061

⇒ Q719 8-729-663-47 Ⓛ 2SC1364

Q720 8-729-468-43 Ⓛ 2SA684

Q721 8-760-413-10 Ⓛ 2SC1475

⇒ Q722-728 8-729-663-47 Ⓛ 2SC1364

⇒ Q729 8-729-663-47 Ⓛ 2SC1364 (E, AEP, UK model)

Q730 Ⓛ 8-760-413-10 Ⓛ 2SC1475

⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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

⇒ Q731 8-729-663-47 Ⓛ 2SC1364

Q732 Ⓛ 8-729-217-33 Ⓛ 2SC1173

⇒ Q733 8-727-788-00 Ⓛ 2SA678

⇒ Q734 Ⓛ 8-727-788-00 Ⓛ 2SA678

⇒ Q801 8-729-663-47 Ⓛ 2SC1364

ICs

⇒ IC1-3 8-759-145-58 μPC4558C

⇒ IC4 8-759-114-58 μPC1458C

⇒ IC5 8-759-145-58 μPC4558C

⇒ IC6 8-759-240-24 TC4024P

IC7-9 8-759-940-69 CD4069

⇒ IC10 8-759-240-11 TC4011P

⇒ IC11 8-759-114-58 μPC1458C

⇒ IC12 8-759-240-81 TC4081P

⇒ IC13 8-759-240-68 TC4068P

⇒ IC14 8-759-240-11 TC4011P

IC15 8-759-178-05 μPC78L05

IC16 8-759-979-05 μA79M05

⇒ IC601 8-759-600-65 Ⓛ CX065A

⇒ IC701 8-759-107-38 Ⓛ CX738A

IC801,802 8-759-907-62 CX762

IC901,902 8-759-907-62 CX762

Diodes

D001-004 8-719-815-55 Ⓛ 1S1555

⇒ D101,201 8-719-200-02 Ⓛ 10E2

⇒ D102,202 8-719-815-55 Ⓛ 1S1555

⇒ D103,104 8-719-930-11 Ⓛ EQB01-11Z

⇒ D203,204 8-719-422-21 Ⓛ 1T22AM

⇒ D105,205 8-719-422-21 Ⓛ 1T22AM

⇒ D301,401 8-719-422-21 Ⓛ 1T22AM

⇒ D302,402 8-719-815-55 Ⓛ 1S1555

D303,403 8-719-815-55 Ⓛ 1S1555

D304,404 8-719-815-55 Ⓛ 1S1555 (E, AEP, UK model)

⇒ D305 8-719-815-55 Ⓛ 1S1555 (E, AEP, UK model)

⇒ D501 8-719-930-12 Ⓛ EQB01-12Z

⇒ D502 8-719-815-55 Ⓛ 1S1555

⇒ D601 8-719-422-21 Ⓛ 1T22AM

⇒ D602 8-719-920-30 Ⓛ MV203V

⇒ D701,702 8-719-815-55 Ⓛ 1S1555

⇒ D703 8-719-422-21 Ⓛ 1T22AM

⇒ D704-707 8-719-815-55 Ⓛ 1S1555

⇒ D708 8-719-422-21 Ⓛ 1T22AM

⇒ D709-721 8-719-815-55 Ⓛ 1S1555

⇒ D722 8-719-200-02 Ⓛ 10E2

⇒ D723-727 8-719-815-55 Ⓛ 1S1555

⇒ D728 Ⓛ 8-719-200-02 Ⓛ 10E2

⇒ D729 Ⓛ 8-719-200-02 Ⓛ 10E2

⇒ D730 8-719-931-15 Ⓛ EQB01-15

⇒ D731-733 8-719-815-55 Ⓛ 1S1555

D734 8-719-200-02 Ⓛ 10E2

⇒ D735-737 8-719-815-55 Ⓛ 1S1555

⇒ D738 8-719-815-55 Ⓛ 1S1555 (E, AEP, UK model)

⇒ D739-746 Ⓛ 8-719-200-02 Ⓛ 10E2

COILS

L101,201 1-407-879-00 Ⓛ 33 mH, microinductor

L102,202 1-407-240-00 Ⓛ 22 mH, variable inductor

L103,203 1-407-199-XX Ⓛ 2.7 mH, microinductor

L104,204 1-407-197-XX Ⓛ 1.8 mH, microinductor

L105,205 1-407-204-XX Ⓛ 6.8 mH, microinductor

L501,502 1-407-211-XX Ⓛ 27 mH, microinductor

TRANSFORMERS

T101,201 1-427-284-00 Ⓛ Output

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

T501 1-433-132-11 Ⓛ Osc

T601 { 1-446-038-00 Ⓛ Step-up (E, AEP, UK model)

{ 1-443-015-00 Ⓛ Step-up (Canadian model)

T701 { Ⓛ 1-442-778-00 Ⓛ Power (E, AEP, UK model)

{ Ⓛ 1-442-740-00 Ⓛ Power (Canadian model)

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.

50V or less are not indicated except for electrolytics. pF: μμF, elect = electrolytic

C001 1-121-726-11 Ⓛ 0.47 50V elect

C002 1-108-603-12 Ⓛ 0.1 mylar

C003 1-121-968-11 Ⓛ 10 16V elect

C004 1-123-230-11 Ⓛ 2.2 50V elect

C005 1-121-726-11 Ⓛ 0.47 50V elect

C006 1-102-122-11 Ⓛ 0.0027

C007 1-102-074-11 Ⓛ 0.001

C010,011 1-121-726-11 Ⓛ 0.47 50V elect

C012,013 1-121-968-11 Ⓛ 10 16V elect

C101,201 1-121-404-11 Ⓛ 33 25V elect

C102,202 1-121-913-11 Ⓛ 3.3 25V elect

C103,203 1-121-398-11 Ⓛ 10 25V elect

C104,204 1-107-081-11 Ⓛ 68p silvered mica

C105,205 1-129-794-11 Ⓛ 0.0033 polyethylene

C106,206 1-108-569-12 Ⓛ 0.0039 mylar

C107,207 1-108-563-12 Ⓛ 0.0022 mylar

C108,208 1-121-402-11 Ⓛ 33 10V elect

C109,209 1-121-398-11 Ⓛ 10 25V elect

C110,210 1-102-110-11 Ⓛ 220p

C111,211 1-102-106-11 Ⓛ 100p

C112,212 1-102-110-11 Ⓛ

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

Ref. No.	Part No.	Description
C118,218	1-108-230-12 Ⓛ 0.0022	mylar
C119,219	1-121-404-11 Ⓛ 33	25V elect
C120,220	1-121-450-11 Ⓛ 2.2	50V elect
C121,221	1-102-106-11 Ⓛ 100p	
C122,222	1-121-414-11 Ⓛ 100	10V elect
C123,223	1-102-956-11 Ⓛ 15p	
C124,224	1-121-651-11 Ⓛ 10	16V elect
C125,225	1-121-398-11 Ⓛ 10	25V elect
C126,226	1-121-392-11 Ⓛ 3.3	25V elect
C127,227	1-121-416-11 Ⓛ 100	25V elect
C128,228	1-121-651-11 Ⓛ 10	16V elect
C129,229	1-121-398-11 Ⓛ 10	25V elect
C130,230	1-102-108-11 Ⓛ 150p	
C131,231	1-102-956-11 Ⓛ 15p	
C132,232	1-121-391-11 Ⓛ 1	50V elect
C133,233	1-108-252-12 Ⓛ 0.15	mylar
C134,234	1-121-409-11 Ⓛ 47	16V elect
C135,235	1-121-450-11 Ⓛ 2.2	50V elect
C136,236	1-121-651-11 Ⓛ 10	16V elect
C137,237	1-108-585-12 Ⓛ 0.018	mylar
C138,238	1-108-599-12 Ⓛ 0.068	mylar
C139,239	1-108-587-12 Ⓛ 0.022	mylar
C140,240	1-108-599-12 Ⓛ 0.068	mylar
C141,241	1-108-585-12 Ⓛ 0.018	mylar
C142,242	1-121-416-11 Ⓛ 100	25V elect
C143,243	1-121-398-11 Ⓛ 10	25V elect
C145,245	1-121-395-11 Ⓛ 4.7	25V elect
C146,246	1-102-106-11 Ⓛ 100p	
C147,247	1-121-398-11 Ⓛ 10	25V elect
C149,249	1-121-398-11 Ⓛ 10	25V elect
C301,401	1-129-701-11 Ⓛ 0.01	100V polyethylene
C302,402	1-129-896-11 Ⓛ 0.012	100V polyethylene
C303,403	1-129-899-11 Ⓛ 0.056	100V polyethylene
C304,404	1-108-573-12 Ⓛ 0.0056	mylar
C305,405	1-102-943-11 Ⓛ 6p	
C306,406	1-121-651-11 Ⓛ 10	16V elect
C307,407	1-129-794-11 Ⓛ 0.0033	100V polyethylene
C308,408	1-131-217-11 Ⓛ 2.2	35V tantalum
C309,409	1-131-197-11 Ⓛ 3.3	16V tantalum
C310,410	1-108-571-12 Ⓛ 0.0047	mylar

Ref. No. Part No. Description

C311,411	1-121-410-11 Ⓛ 47	25V elect
C312,412	1-102-074-11 Ⓛ 1000p	
C313,413	1-121-748-11 Ⓛ 10	25V elect
C314,414	1-121-916-11 Ⓛ 10	16V elect
C315,415	1-102-115-11 Ⓛ 560p (E, AEP, UK model)	
	1-102-074-11 Ⓛ 0.001 (Canadian model)	

C501	1-121-422-11 Ⓛ 220	25V elect
C502,503	1-121-398-11 Ⓛ 10	25V elect
C504	1-131-218-11 Ⓛ 3.3	35V elect
C505	1-108-377-12 Ⓛ 0.01	100V mylar
C506	1-108-380-12 Ⓛ 0.018	100V mylar

C507	1-129-710-11 Ⓛ 0.0047	630V polyethylene
C508,509	1-141-010-XX Ⓛ	trimmer
C510,511	1-107-037-11 Ⓛ 82p	silvered mica
C512,513	1-107-137-11 Ⓛ 180p	silvered mica
C514,515	1-107-165-11 Ⓛ 56p	silvered mica

C601	1-121-651-11 Ⓛ 10	16V elect
C602	1-108-583-12 Ⓛ 0.015	mylar
C603	1-130-134-11 Ⓛ 0.082	100V polyethylene
C604	1-121-398-11 Ⓛ 10	25V elect
C605	1-121-986-11 Ⓛ 2.2	50V elect

C606	1-121-395-11 Ⓛ 4.7	25V elect
C607	1-121-990-11 Ⓛ 22	16V elect
C608	1-121-395-11 Ⓛ 4.7	25V elect

C701	1-161-019-11 Ⓛ 0.033	ceramic (boundary layer)
C702	1-131-201-11 Ⓛ 22	16V tantalum
C703	1-121-990-11 Ⓛ 22	16V elect
C704	1-121-479-11 Ⓛ 22	16V elect
C705	1-161-025-11 Ⓛ 0.1	ceramic (boundary layer)

C706	1-121-395-11 Ⓛ 4.7	25V elect
C707-710	1-161-013-11 Ⓛ 0.01	ceramic (boundary layer)
C711	1-161-021-11 Ⓛ 0.047	ceramic (boundary layer)
C712	1-161-013-11 Ⓛ 0.01	ceramic (boundary layer)
C713	1-161-019-11 Ⓛ 0.033	ceramic (boundary layer)

Ref. No. Part No. Description

C714	1-161-013-11 Ⓛ 0.01	ceramic (boundary layer)
C715	1-161-025-11 Ⓛ 0.1	ceramic (boundary layer)
C716,717	1-121-479-11 Ⓛ 22	16V elect
C718	1-121-352-11 Ⓛ 47	10V elect
C719	1-121-726-11 Ⓛ 0.47	50V elect

C720	1-121-352-11 Ⓛ 47	10V elect
C721	1-121-986-11 Ⓛ 2.2	50V elect
C722	1-121-654-11 Ⓛ 330	25V elect
C723	1-121-975-11 Ⓛ 47	10V elect
C724	1-121-392-11 Ⓛ 3.3	25V elect

C725	1-121-395-11 Ⓛ 4.7	25V elect
C726	1-121-986-11 Ⓛ 2.2	50V elect
C727	1-121-976-11 Ⓛ 100	10V elect
C728,729	Ⓐ 1-123-067-11 Ⓛ 2200	25V elect
C730,731	Ⓐ 1-123-061-11 Ⓛ 1000	50V elect

C732,733	Ⓐ 1-121-944-11 Ⓛ 1000	16V elect
C734,735	1-121-420-11 Ⓛ 220	10V elect
C736	1-121-392-11 Ⓛ 3.3	25V elect
C737	1-12	

TC-K8/K8B**TC-K8/K8B**

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
S15	1-552-174-00	Ⓑ Pushbutton, AUTO RESET
S16	1-552-174-00	Ⓑ Pushbutton, MANUAL RESET
JACKS		
J301,401	1-507-533-00	Ⓓ MIC
J302	1-507-523-00	Ⓒ LINE IN
J303,403	1-507-433-21	Ⓓ 4p, LINE IN, LINE OUT
J304,404	1-507-507-00	Ⓒ HEADPHONES
FUSES		
F1	Ⓐ 1-532-066-00	Ⓑ Fuse, T400mA (E, AEP, UK model)
F2-5	Ⓐ 1-532-078-00	Ⓑ Fuse, 1A (E, AEP, UK model)
MISCELLANEOUS		
CN1	1-507-255-00	Ⓒ Socket, 11p; remote control
CN2	Ⓐ 1-509-546-00	Ⓓ Socket, 3p; AC IN (E, AEP, UK model)
	Ⓐ 1-526-528-00	Ⓑ Socket, AC OUTLET (Canadian model)
CN101	1-509-549-00	Ⓑ Connector, record/playback (E, AEP, UK model)
CP1,2 CP701	Ⓐ 1-231-057-31	Ⓑ Encapsulated Component
CP702	Ⓐ 1-231-057-31	Ⓑ Encapsulated Component (E, AEP, UK model)
	Ⓐ 1-231-341-00	Ⓓ Encapsulated Component (Canadian model)
HE	8-825-506-00	Ⓒ Head, erase; EF135-36
HRP	8-825-612-00	Ⓜ Head, record/playback; PF145-3602
M1	8-835-006-00	Ⓛ Motor, capstan; DNF-1001B
M2	8-834-015-01	Ⓜ Motor, reel; DNM-1202A
PL1-9	1-518-115-XX	Ⓑ Lamp, 6V 35mA
PM1,2	1-454-177-00	Ⓖ Solenoid
PM3	1-454-158-00	Ⓕ Solenoid

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
RL101	1-515-294-00	Relay, reed (E, AEP, UK model)
VS	Ⓐ 1-552-026-00	Ⓔ Voltage Selector (E, AEP, UK model)
ACCESSORIES & PACKING MATERIALS		
X-3549-745-0	Ⓒ Cushion Ass'y	
X-3701-105-0	Ⓐ Tip Ass'y, head cleaning	
1-534-049-31	Ⓔ Cord, connection; RK-74	
1-534-487-XX Ⓐ	Ⓒ Cord, power (E, AEP, UK model)	
3-429-126-00	Bag, plastic; set (Canadian model)	
3-541-250-00	Ⓐ Sticker, loading	
3-548-778-00	Ⓑ Cushion (E, AEP, UK model)	
3-548-780-00	Ⓒ Cushion, lower; front (E, AEP, UK model)	
3-548-781-00	Ⓒ Cushion, lower; rear (E, AEP, UK model)	
3-548-788-00	Cushion, lower; front (Canadian model)	
3-548-789-00	Cushion, lower; rear (Canadian model)	
3-548-790-00	Cushion (Canadian model)	
3-555-533-00	Ⓕ Carton (E, AEP, UK model)	
3-555-536-00	Carton (Canadian model)	
3-770-392-31	Manual, instruction (Canadian model)	
3-770-392-52	Ⓗ Manual, instruction (E, AEP, UK model)	
4-837-003-00	Ⓒ Bag, plastic; set (E, AEP, UK model)	

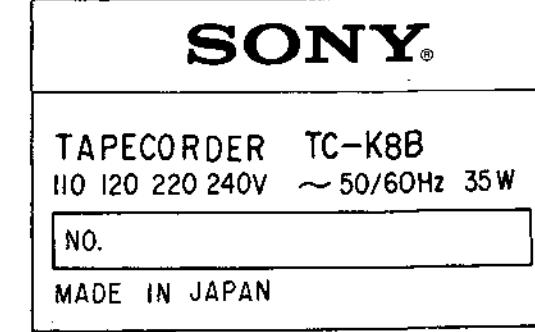
MODEL IDENTIFICATION

— Specification Label —

TC-K8
Canadian model



TC-K8B
E, AEP, UK model



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.

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