TC-K2A

AEP Model
E Model
Canadian Model
US Model

STEREO-CASSETTE CORDER

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz (US, Canadian model)
110, 120, 220, 240 V ac, 50/60 Hz (AEP, UK model)

Power Consumption: 11 W ac

Dimensions: AEP, E model:
Approx. 410 (w) × 145 (h) × 270 (d) mm
16 1/8 (w) × 5 3/4 (h) × 10 5/8 (d) inches
US, Canadian model:
Approx. 440 (w) × 145 (h) × 270 (d) mm
17 1/4 (w) × 5 3/4 (h) × 10 5/8 (d) inches
including projecting parts and controls

Weight: AEP, E model:
Approx. 4.7 kg, 9 lb 15 oz
US, Canadian model:
Approx. 5 kg, 10 lb 7 oz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SHCEMATIC 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.

TAPE RECORDER SECTION

Track: 4-track 2-channel stereo

Fast Forward Rewind Time: Approx. 90 seconds with Sony cassette C-60

Frequency Response: DOLBY NR OFF
With Ferri-Chrome cassette
40–14,000 Hz (NAB)
50–13,000 Hz ± 3 dB (NAB)
50–13,000 Hz (DIN)
With chromium dioxide cassette
40–14,000 Hz (NAB)
50–13,000 Hz ± 3 dB (NAB)
50–13,000 Hz (DIN)
With regular cassette
40–13,500 Hz (NAB)
50–11,000Hz (DIN)

Wow and Flutter: 0.06% (RMS) weighted NAB
±0.16% DIN

– Continued on page 2 –

* **'Dolby'** and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.
* 0 dB = 0.775 V

SONY®
SERVICE MANUAL

S/N Ratio: DOLBY NR OFF
With Ferri-Chrome cassette
57 dB at peak level (NAB)
56 dB (DIN, 1975 rev.)
48 dB (DIN, old)
With chromium dioxide cassette
53 dB at peak level (NAB)
DOLBY NR ON
Improved by 5 dB at 1 kHz, 10 dB above 5 kHz

Total Harmonic Distortion: 1.7%

Record Bias Frequency: 105 kHz

Inputs: MIC (two phone jacks)
Sensitivity: 0.25 mV (–70 dB)
Impedance: for low-impedance microphone
LINE IN (two phono jacks)
Sensitivity: 77.5 mV (–20 dB)
Impedance: 100 kΩ
REC/PB (connector)
Input impedance: less than 10 kΩ

Outputs: LINE OUT (two phono jacks)
Output level: 0.435 V (–5 dB)
at load impedance 100 kΩ
suitable load impedance more than 10 kΩ
HEADPHONES (binaural jack)
Normal level: 39 mV (–26 dB)
for low-impedance headphones
REC/PB (connector)
Output impedance: less than 10 kΩ

0 dB = 0.775 V

MODEL IDENTIFICATION
(Specification Labels)

Canadian, US model

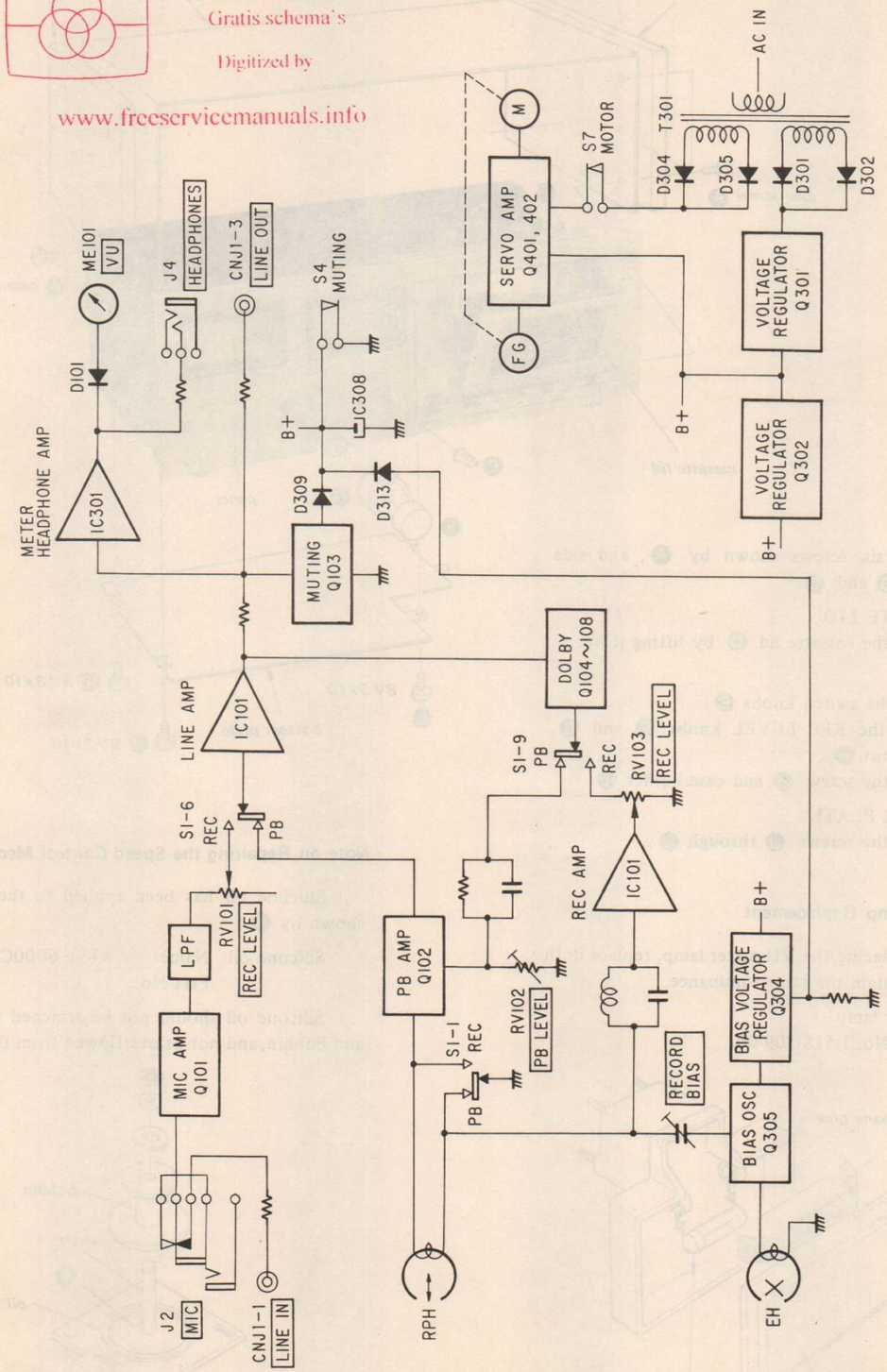
SONY®	TAPECORDER MODEL NO. TC-K2A AC 120V 60Hz 8W SERIAL NO. MADE IN JAPAN

AEP, E model

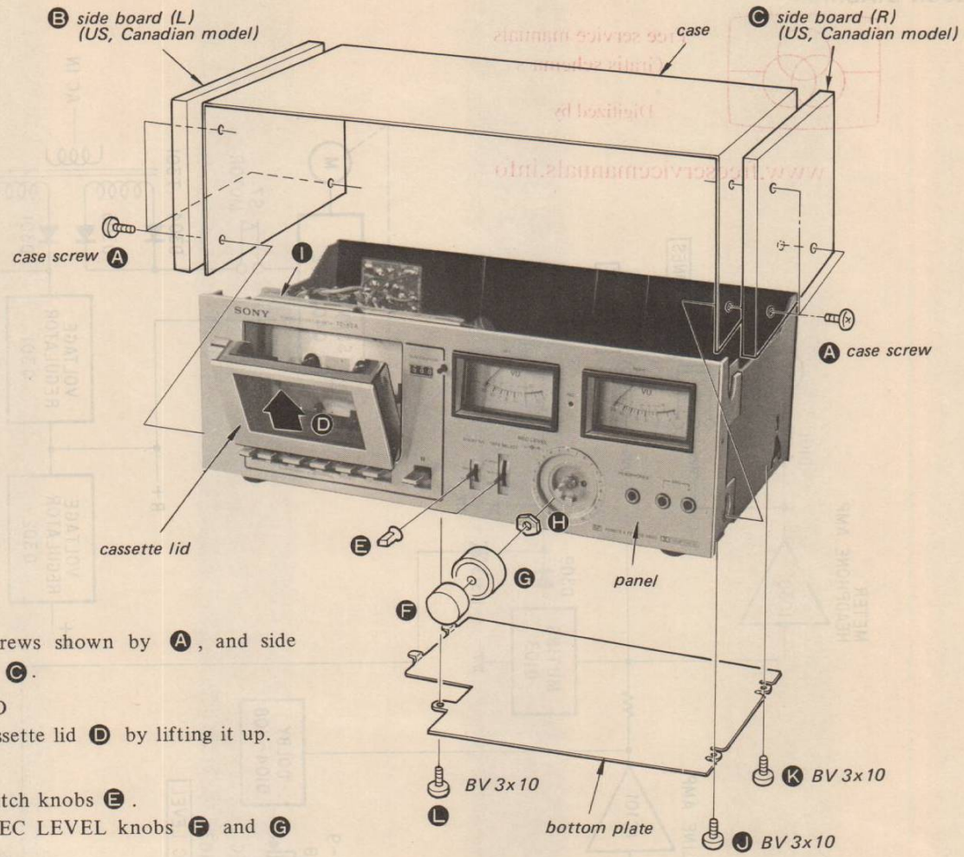
SONY®	TAPECORDER MODEL NO. TC-K2A AC 110,120,220,240V~ 50/60Hz 11W SERIAL NO. MADE IN JAPAN

SECTION 1
OUTLINE

BLOCK DIAGRAM



SECTION 2
DISASSEMBLY

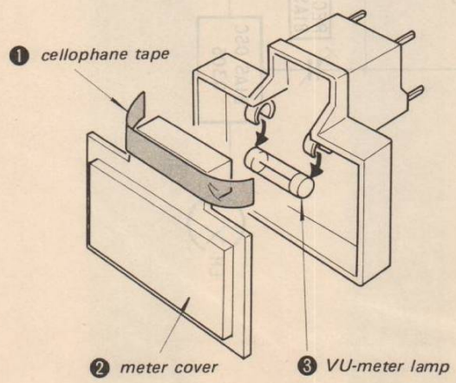


1. CASE
   Remove six screws shown by Ⓐ, and side boards Ⓑ and Ⓒ.
2. CASSETTE LID
   Remove the cassette lid Ⓓ by lifting it up.
3. PANEL
   Pull off the switch knobs Ⓔ.
   Remove the REC LEVEL knobs Ⓕ and Ⓖ and the nut Ⓗ.
   Remove the screw Ⓙ and case holder Ⓘ.
4. BOTTOM PLATE
   Remove the screws Ⓙ through Ⓛ.

VU-Meter Lamp Replacement

When replacing the VU-meter lamp, replace both lamps to maintain the same luminance.

VU-meter lamp
Part No. 1-518-309-00

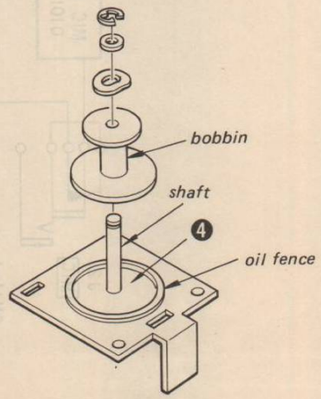


Note on Repairing the Speed Control Mechanism

Silicone oil has been applied to the base plate shown by ❹.

Silicone oil: Name: KF96-6000CS
Part No.: 7-

Silicone oil should not be attached to the shaft and bobbin, and not be overflowed from the oil fence.



SECTION 3
ADJUSTMENTS

PRECAUTION

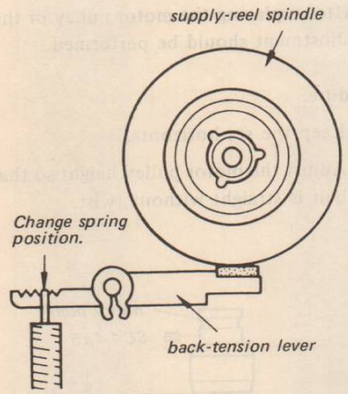
1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

3-1. MECHANICAL ADJUSTMENT

Forward Back Tension Adjustment

– Playback Mode –

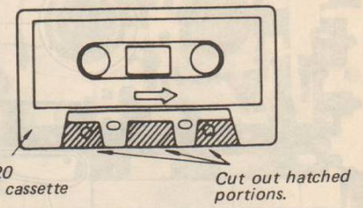
1. Install the SONY CQ-102A torque meter.
2. Adjust the spring position to obtain the torque of 2.0–4.5 g·cm (0.03–0.06 oz·inch).



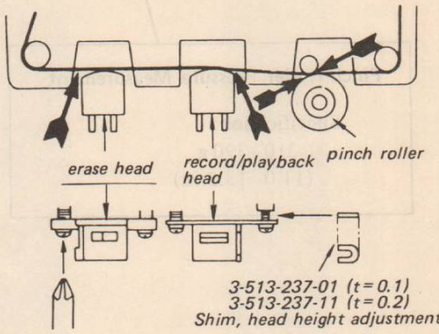
Head Height Adjustment

– Playback Mode –

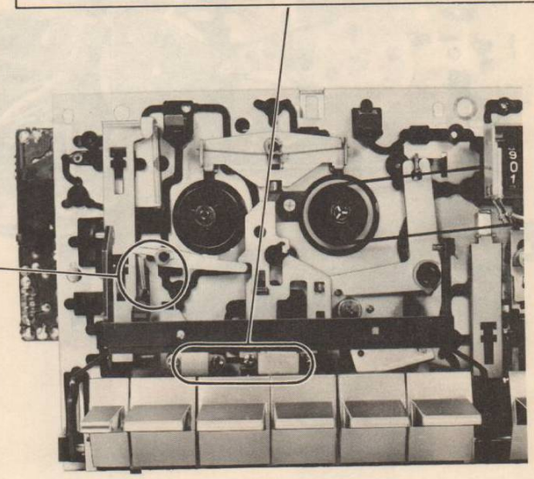
1. Make an adjustment cassette as shown below.

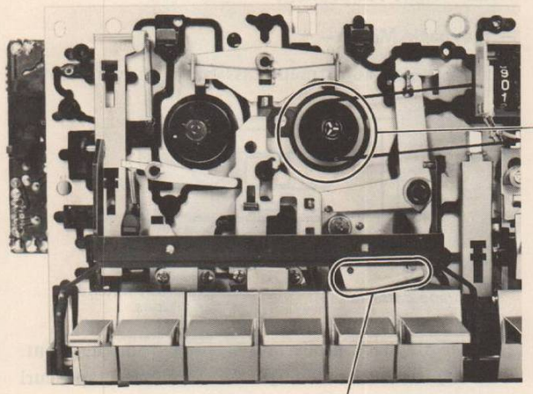


2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



3. After the adjustment, apply a suitable locking compound to the screws adjusted.

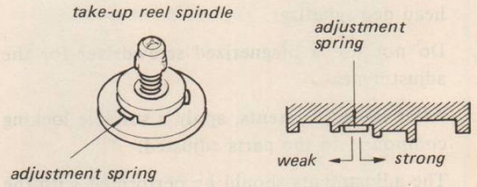




Forward Torque Adjustment

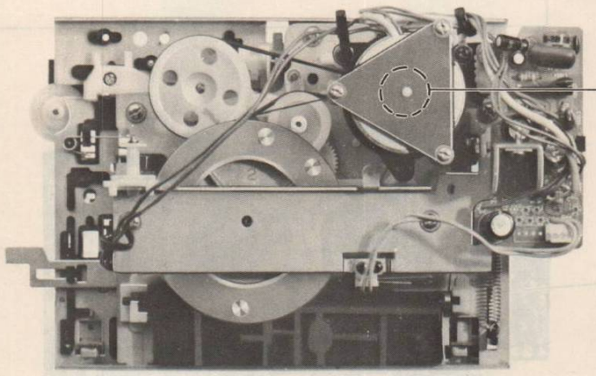
– Playback Mode –

1. Install the SONY CQ-102A torque meter in the set.
2. Adjust the spring position to obtain the torque of 30–50 g·cm (0.45–0.65 oz·inch).



Pinch-Roller Pressure Measurement

Specification:
310–390 g
(11.0–13.5 oz)

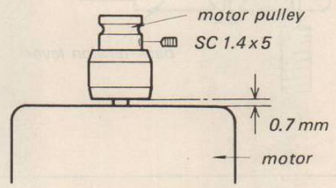


Motor-Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

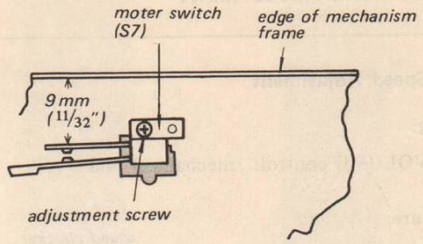
1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.

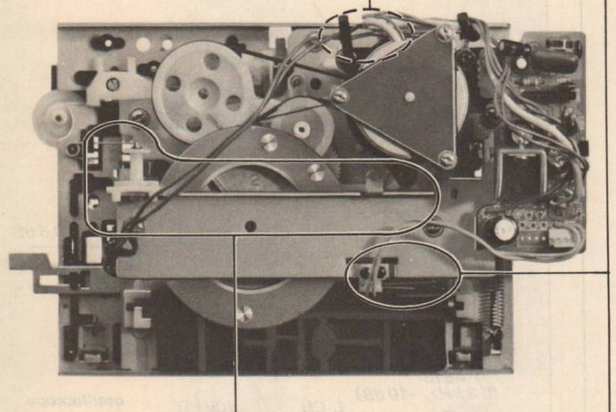


Motor Switch (S7) Position Adjustment

– Stop Mode –

Loosen the adjustment screw to obtain the specified clearance.

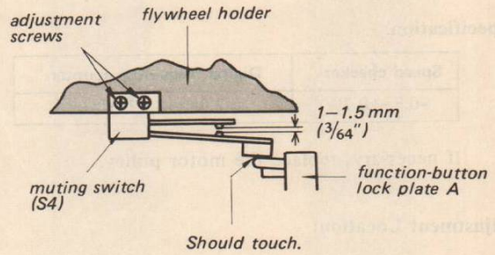




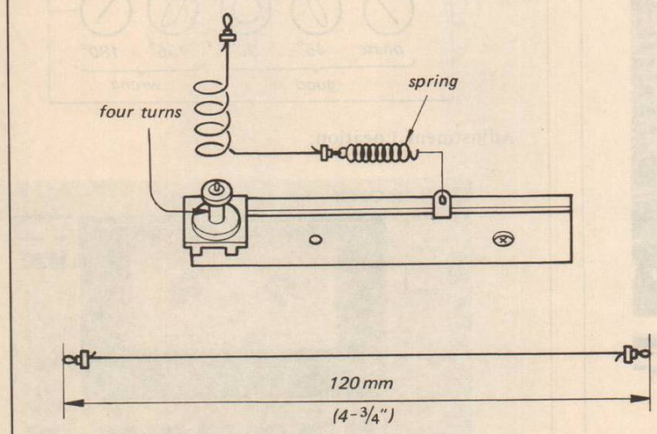
Muting Switch (S4) Position Adjustment

– Stop Mode –

Loosen the adjustment screws to obtain the specified clearance.



Cord Stringing



3-2. ELECTRICAL ADJUSTMENT

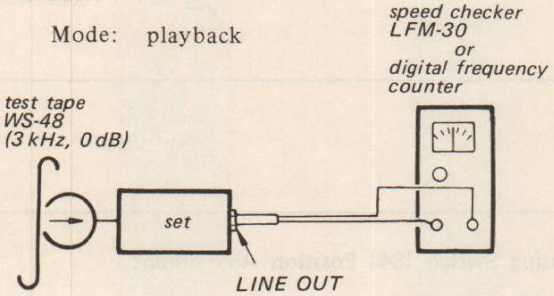
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback



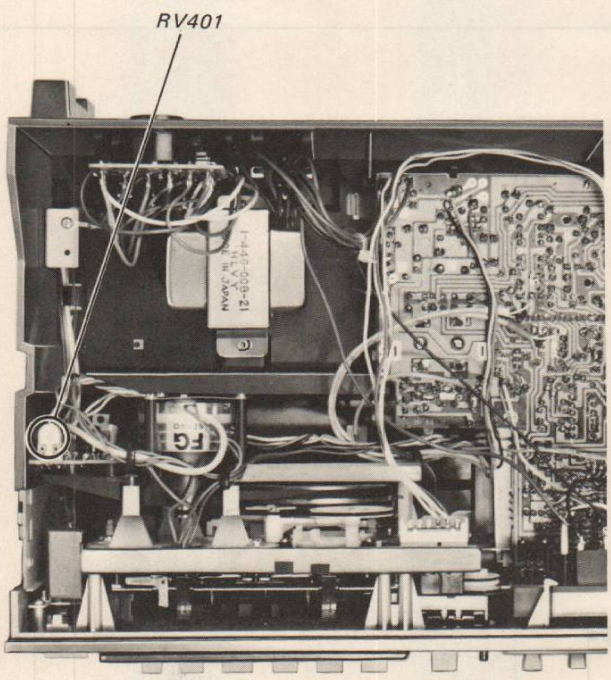
Adjust RV401 for 3,000 Hz reading on the frequency meter or 0% reading on the speed checker.

Specification:

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

If necessary, replace the motor pulley.

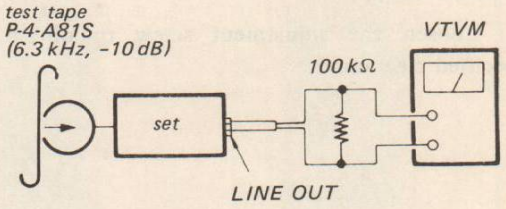
Adjustment Location:



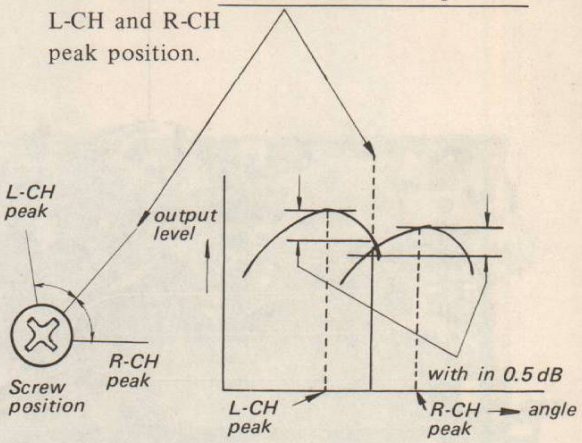
Record/playback Head Azimuth Adjustment

Procedure:

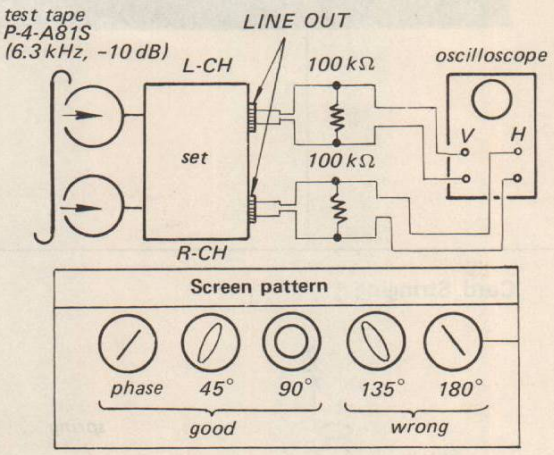
1. Mode: playback



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



3. Mode: playback



Adjustment Location:

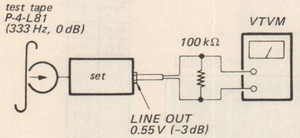
Playback Level Adjustment

Setting:

TAPE SELECT switch: NORMAL

Procedure:

1. Mode: playback



Adjust RV102 (L-CH) and RV202 (R-CH) for 0.55V (−3dB) VTVM reading.

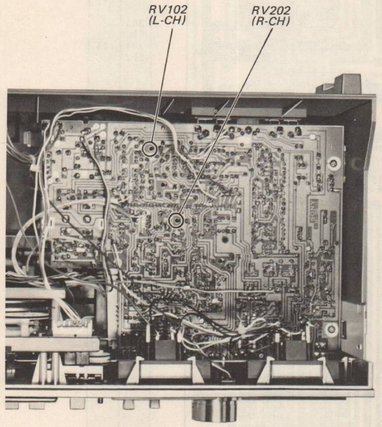
Specification:

0.53 – 0.58 V
(−3.5 – −2.5 dB)

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

Adjustment Location:

– amp board –



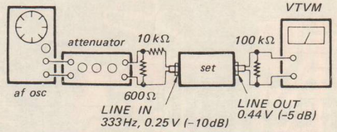
Level Meter Adjustment

Setting:

TAPE SELECT switch: NORMAL
REC LEVEL control: standard record
LINE IN: 0.25 V (−10 dB)
LINE OUT: 0.44 V (−5 dB)

Procedure:

1. Mode: record

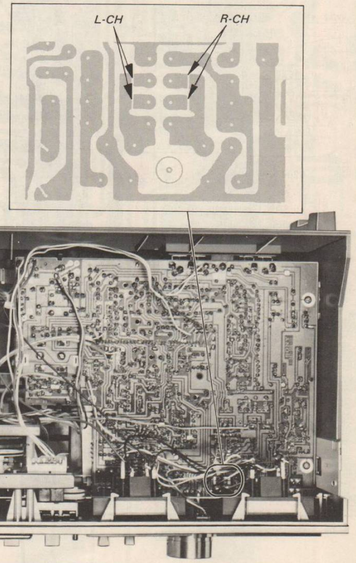


2.

Pattern connection	Pointer deflection	VU meter indication
①	up	0
②	down	

Adjustment Location:

– amp board –



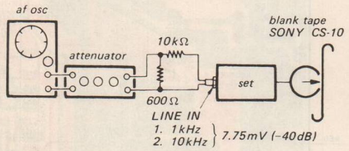
Record Bias Adjustment

Setting:

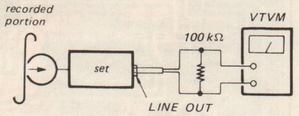
TAPE SELECT switch: NORMAL
REC LEVEL control: standard record
LINE IN: 0.25 V (−10 dB)
LINE OUT: 0.44 V (−5 dB)

Procedure:

1. Mode: record



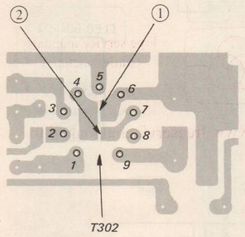
2. Mode: playback



Adjust C145 (L-CH) and C245 (R-CH) for the same LINE OUT level as that of 1 kHz.

3. If necessary, adjust by bridging the patterns as follows.

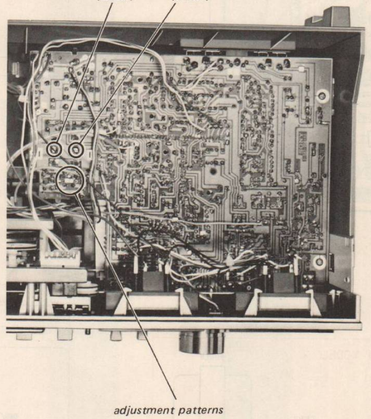
Pattern connection	10 kHz VTVM reading
①	up
②	down



4. If necessary, repeat above steps.

Adjustment Location:

– amp board –



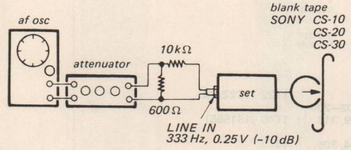
Record Level Adjustment

Setting:

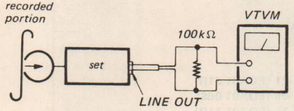
REC LEVEL control: standard record
LINE IN: 0.25 V (−10 dB)
LINE OUT: 0.44 V (−5 dB)

Procedure:

1. Mode: record



2. Mode: playback



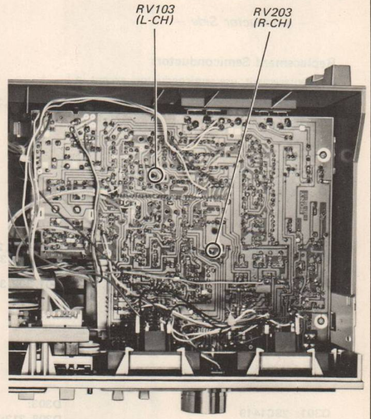
Adjust RV103 (L-CH) and RV203 (R-CH) to obtain 0.44 V (−5 dB) VTVM reading.

3. Change the blank tape to CS-20 and CS-30, and perform the same record and playback procedure. Measure LINE OUT level.

Specification:

SONY tape	LINE OUT level
CS-10	0.41 – 0.46 V (−5.5 – −4.5 dB)
CS-20 CS-30	0.37 – 0.52 V (−6.5 – −3.5 dB)

Adjustment Location:



SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

— Conductor Side —

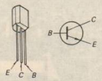
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

Q101, 102, 104 : 2SC1345
Q201, 202, 204

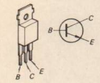
IC101, 201, 301: μPC4558C (μPC4558)

Q103, 105–108
Q203, 205–208 : 2SC1364
Q302–304, 401



D101, 201: 1T22 (1T22AM)
D102–104, 202–204, D306, 307, 309, 311, D313 : 1T40 (1S1555)
D301, 302, 304, 305: 10E2

Q301: 2SC1419

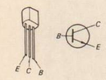


D303: EQB01-21 (EQA01-21R)
D308, 312: EQB01-06 (EQA01-06S)
D314: EQB01-11 (EQA01-11R)

(2SC1061)

D310: SEL103R

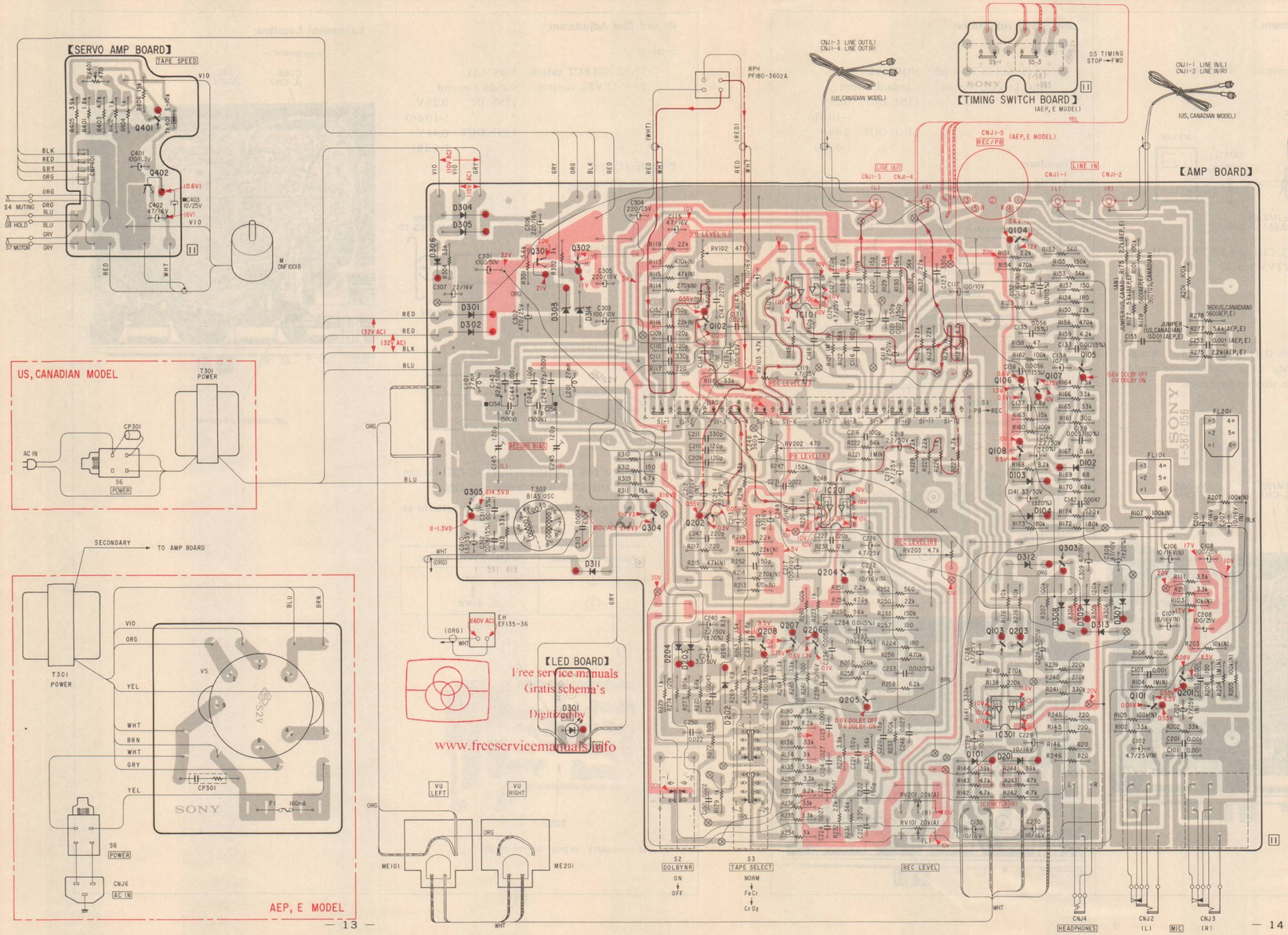
Q305: 2SC1475



Q402: 2SC1760

Note:

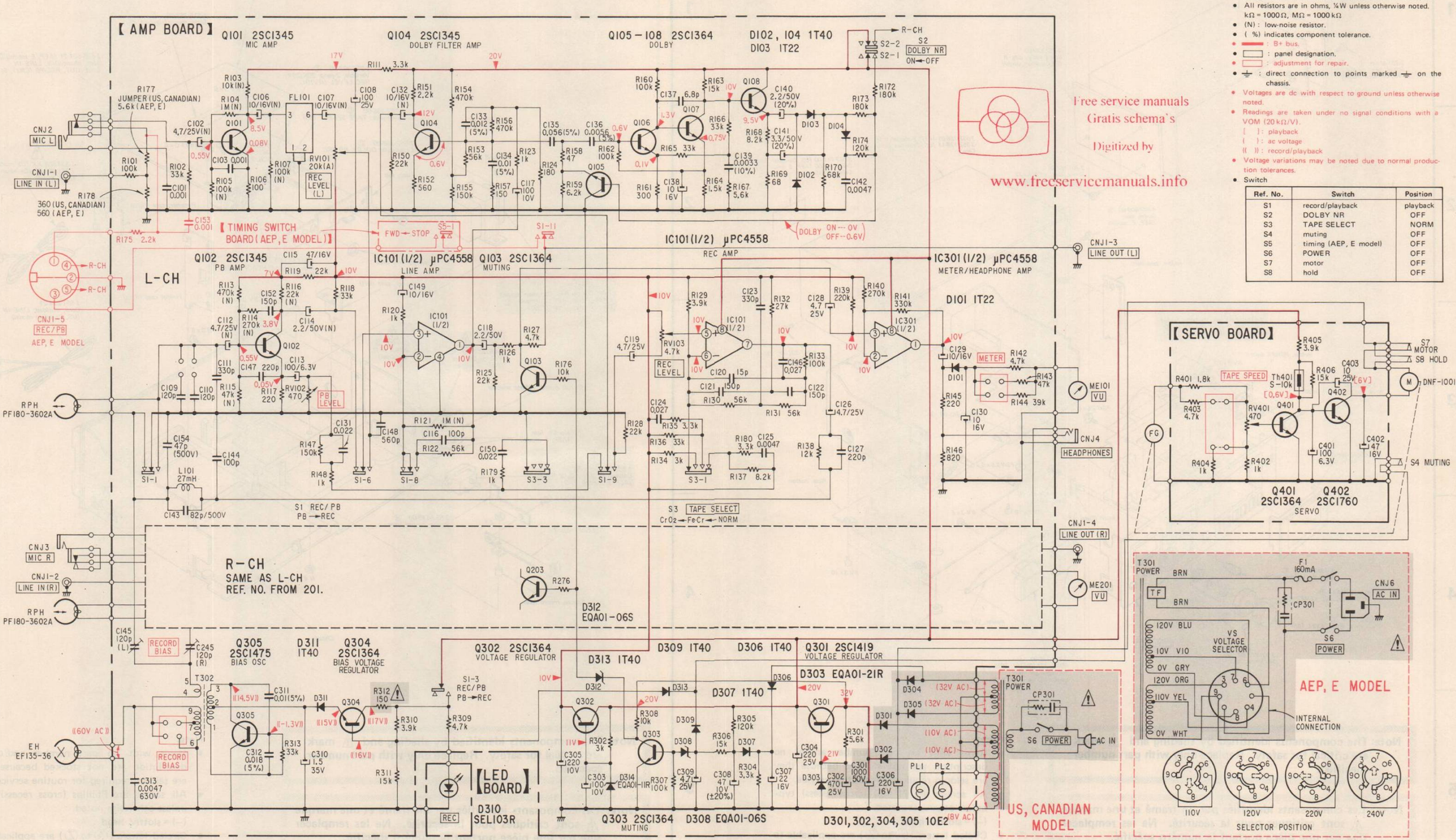
- ⊗ : Through hole.
- ⊗——⊗ : component – side pattern.
- ▬ : B+ pattern
- Signal Path
  L-ch audio playback: ▬▶
  R-ch audio playback: ▬▶
- ■ : part mounted on the conductor side.
- Readings are taken under no signal conditions with a VOM (20 kΩ/V).
  [ ] : playback
  (( )) : record/playback
  ( ) : ac voltage



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

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

4-2. SCHEMATIC DIAGRAM

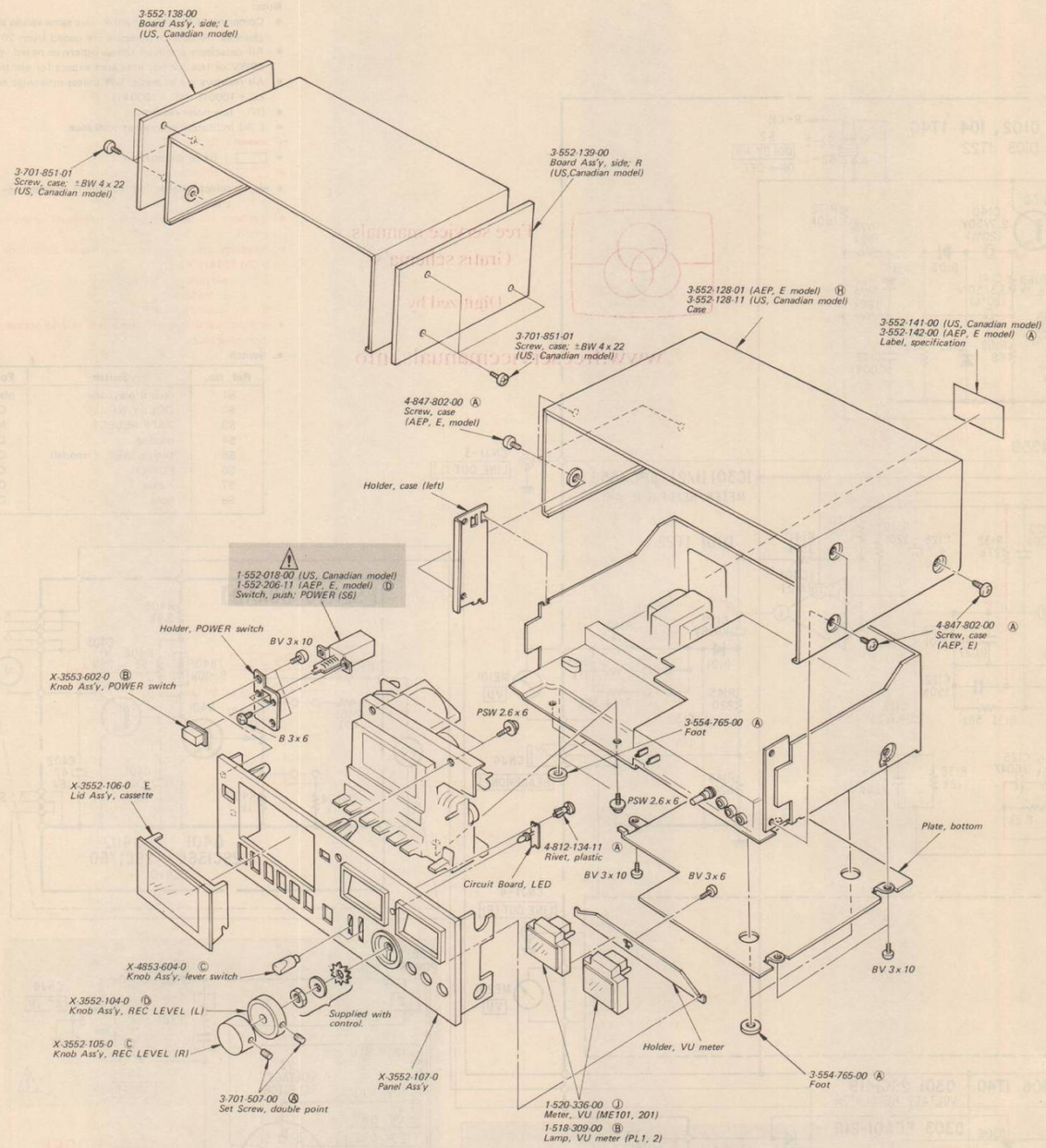


Note:
- Components for right channel have same values as for left channel. Reference numbers are coded from 201.
- All capacitors are in µF unless otherwise noted. pF = µµF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000 kΩ
- (N) : low-noise resistor.
- (%) indicates component tolerance.
- ▬▬ : B+ bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ⏚ : direct connection to points marked ⏚ on the chassis.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20 kΩ/V).
  [ ] : playback
  ( ) : ac voltage
  (( )) : record/playback
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	record/playback	playback
S2	DOLBY NR	OFF
S3	TAPE SELECT	NORM
S4	muting	OFF
S5	timing (AEP, E model)	OFF
S6	POWER	OFF
S7	motor	OFF
S8	hold	OFF

SECTION 5
EXPLODED VIEW

(1)

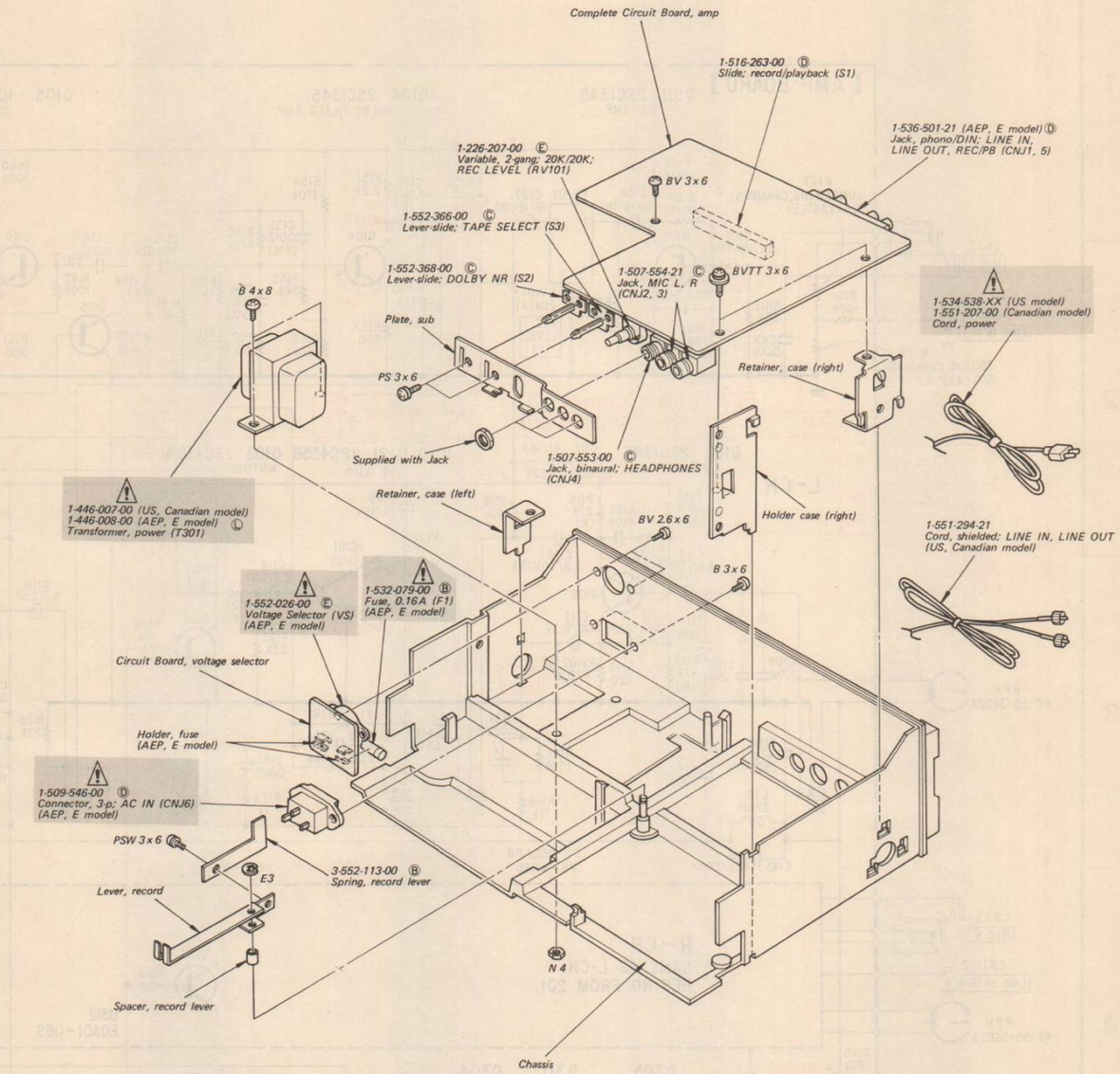


Note: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé 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 (Ⓐ to Ⓩ) are applicable to European models only.

(2)

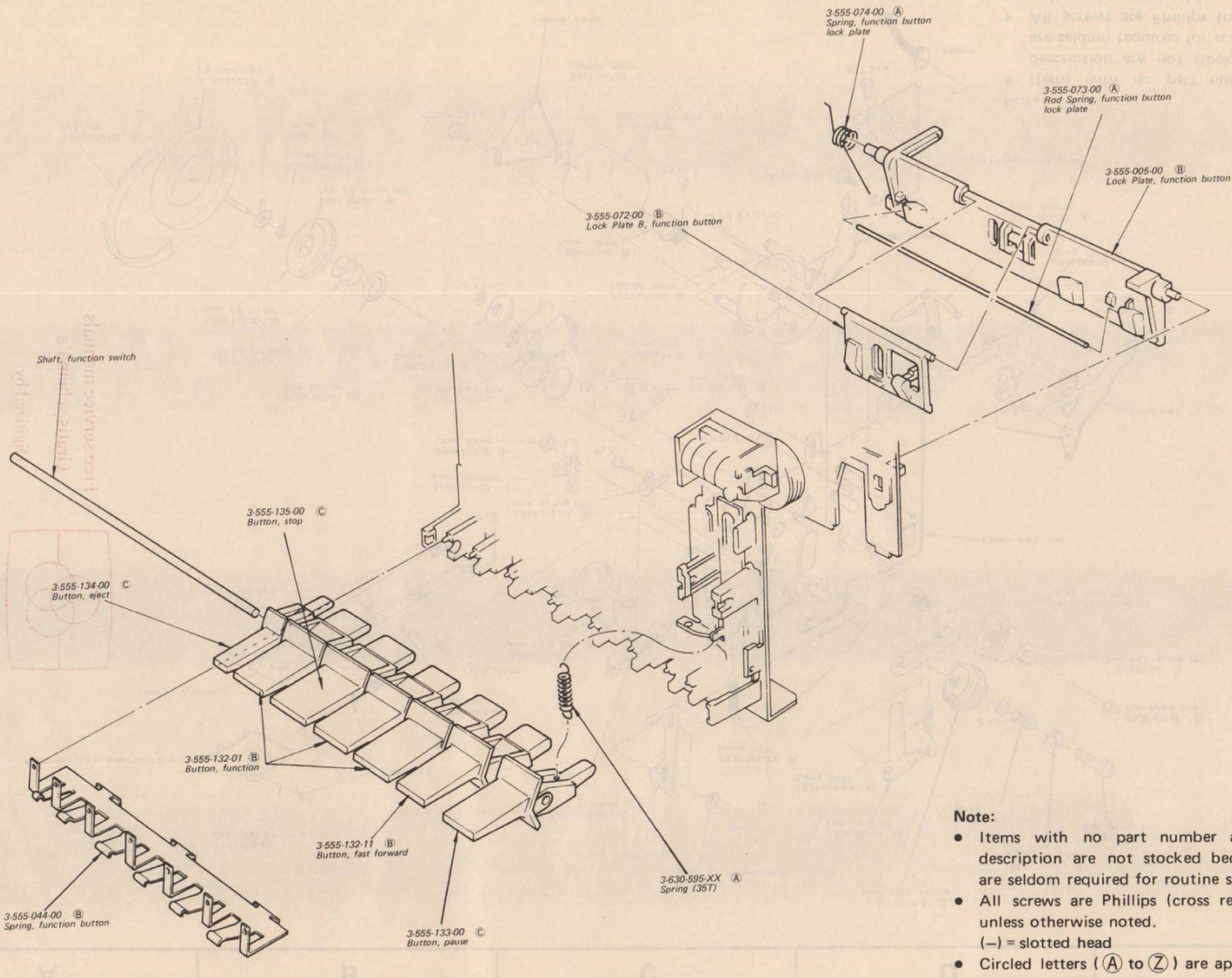


Note: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé 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 (Ⓐ to Ⓩ) are applicable to European models only.

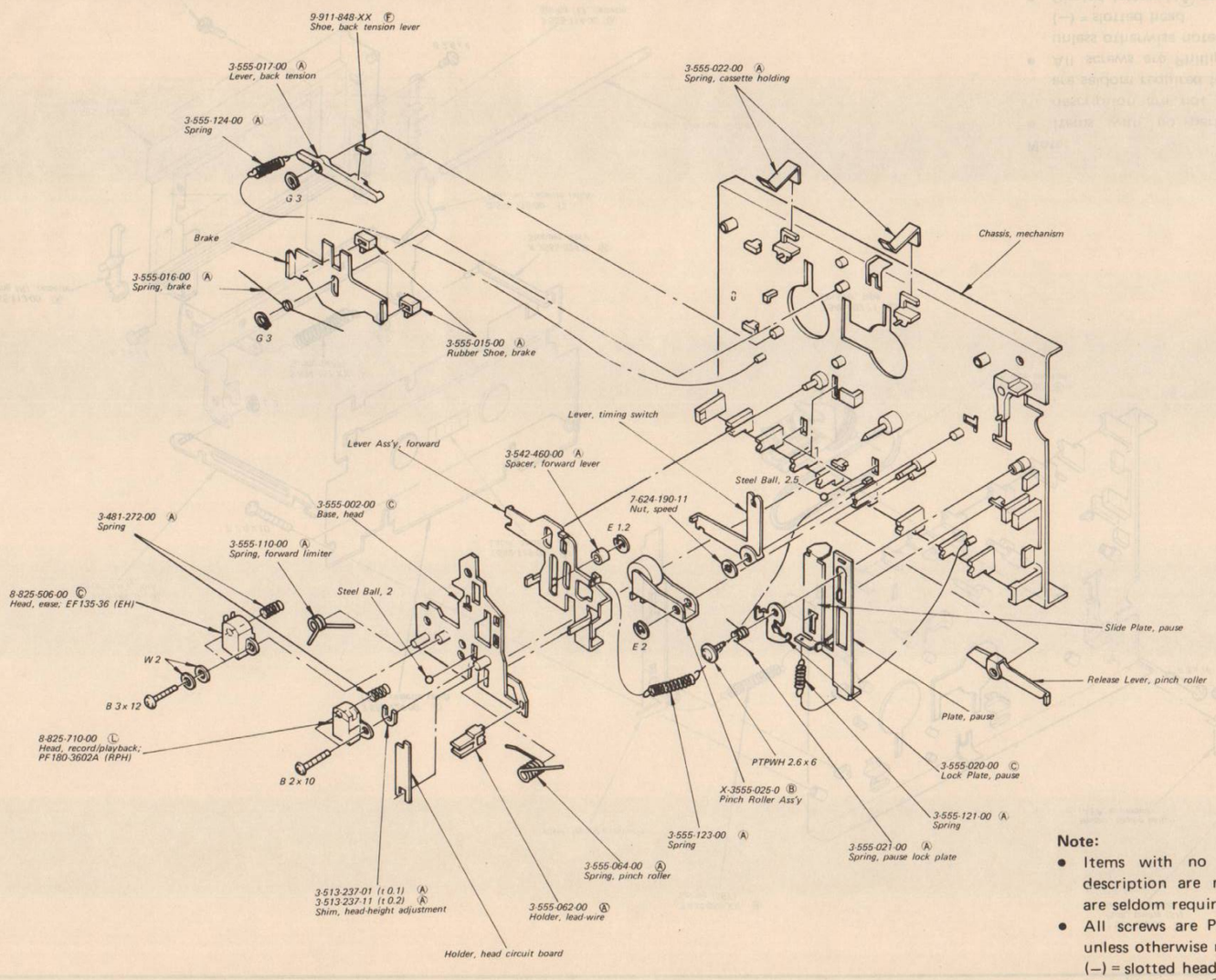
(3)



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

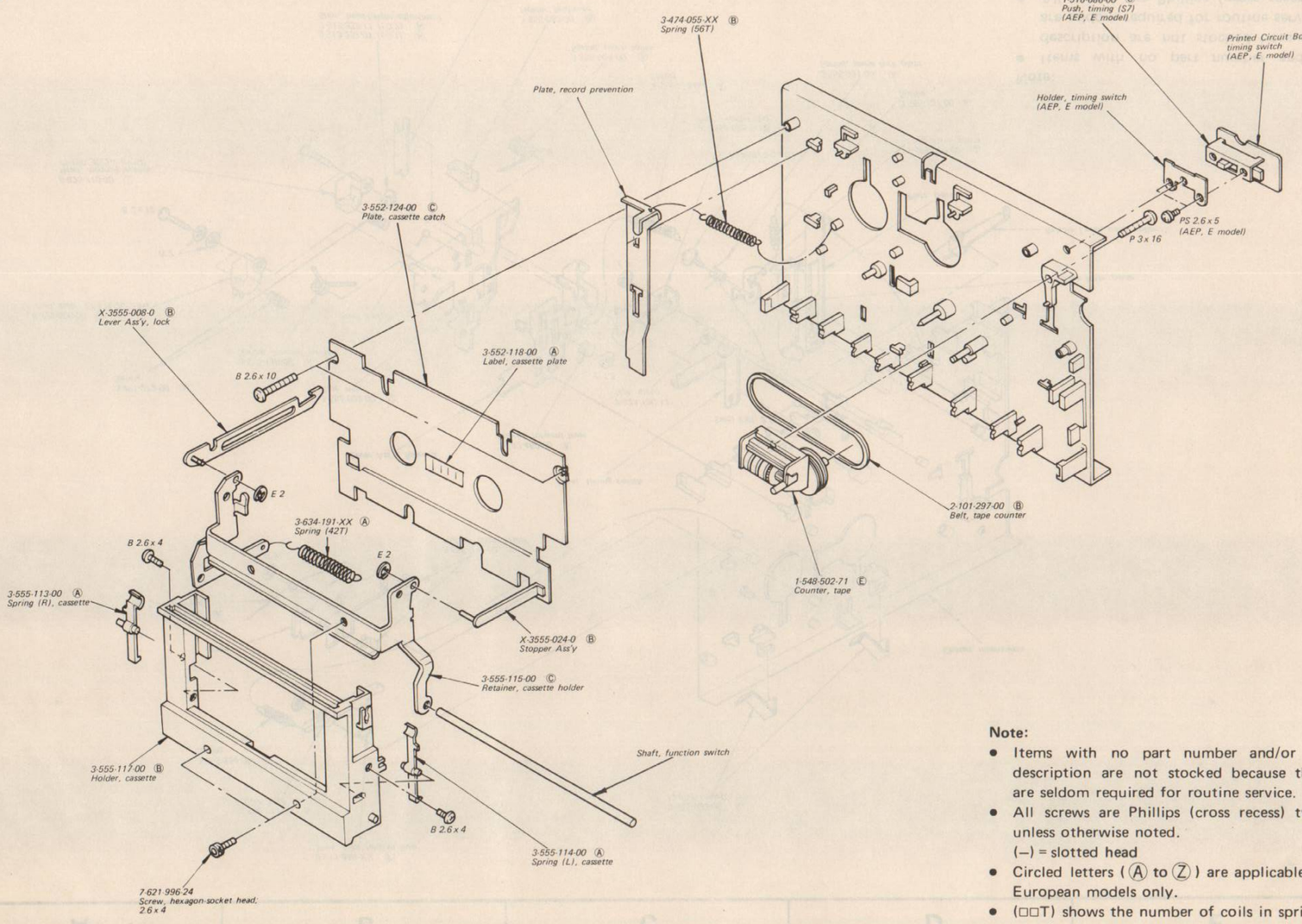
(4)



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 (Ⓐ to Ⓩ) are applicable to European models only.

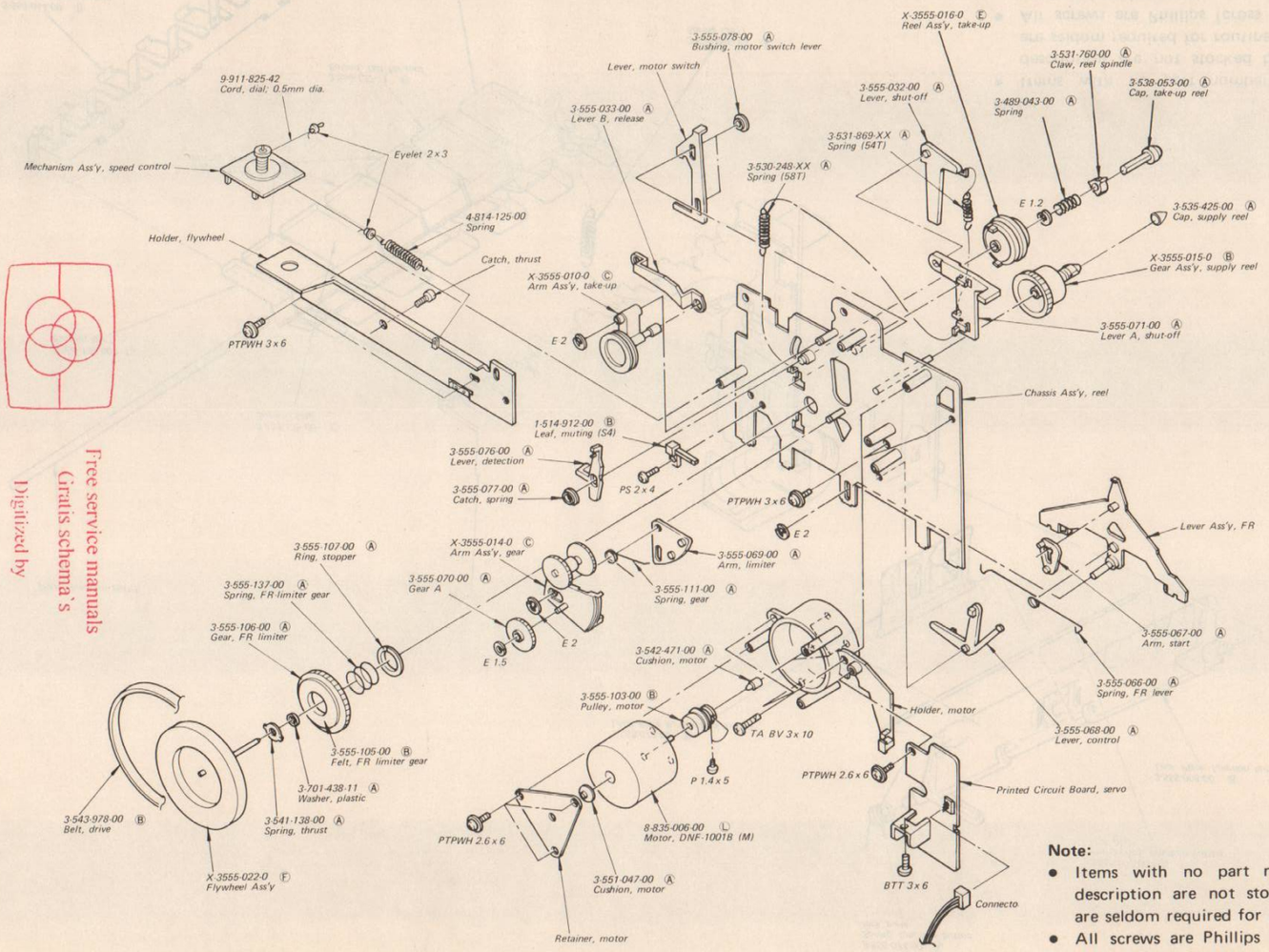
(5)



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

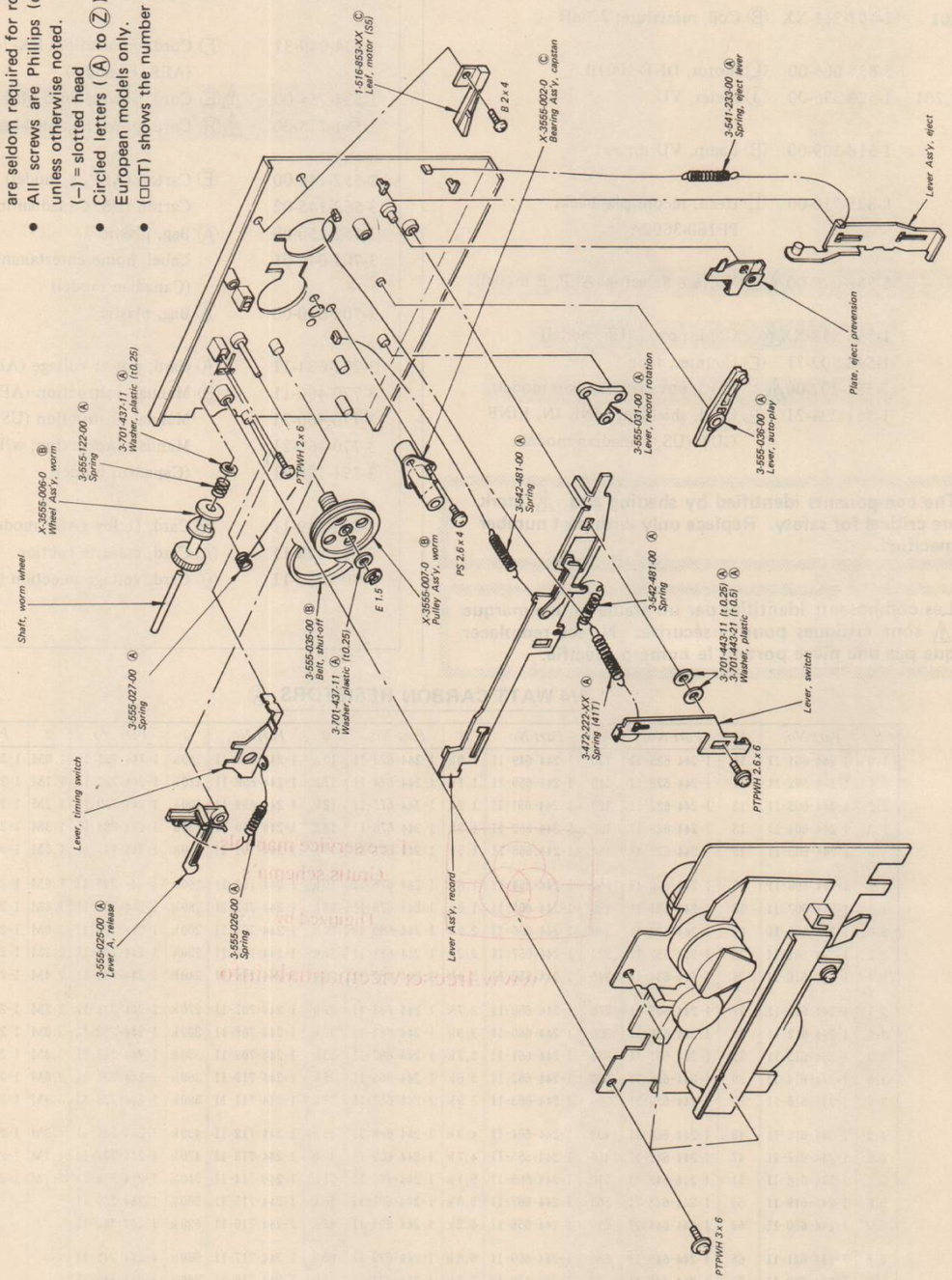
(6)



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

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



(7)

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

SECTION 6
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
		SEMICONDUCTORS
		Transistors
Q101,201 Q102,202 Q104,204		Ⓑ 2SC1345
Q103,203		Ⓑ 2SC1364
Q105–108		Ⓑ 2SC1364
Q203		Ⓑ 2SC1364
Q205–208		Ⓑ 2SC1364
⇒ Q301		Ⓓ 2SC1061
Q302–304		Ⓑ 2SC1364
Q305		Ⓓ 2SC1475
Q401		Ⓑ 2SC1364
Q402		Ⓒ 2SC1760
		ICs
⇒ IC101 ⇒ IC201 ⇒ IC301		Ⓔ μPC4558C
		Diodes
⇒ D101		Ⓑ 1T22AM
⇒ D102–104		Ⓑ 1S1555
⇒ D201		Ⓑ 1T22AM
⇒ D202–204		Ⓑ 1S1555
D301,302		⚠ Ⓑ 10E2
⇒ D303		⚠ Ⓑ EQB01-21
D304,305		⚠ Ⓑ 10E2
⇒ D306,307		Ⓑ 1S1555
⇒ D308		Ⓑ EQB01-06
⇒ D309		Ⓑ 1S1555
D310		Ⓑ SEL103R
⇒ D311		Ⓑ 1S1555
D312		Ⓑ EQB01-06
⇒ D313		Ⓑ 1S1555
D314		Ⓑ EQB01-11

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

Ref. No.	Part No.	Description		
		TRANSFORMERS		
T301	1-446-007-00 ⚠ (AEP, E model) 1-446-008-00 ⚠Ⓛ	Power (US, Canadian model) Power (AEP, E model)		
T302	1-433-132-00	Ⓒ Bias Osc		
		CAPACITORS		
		All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF = μμF, elect = electrolytic		
C101,201	1-161-323-11	Ⓐ 0.001		
C102,202	1-121-915-11	Ⓐ 4.7	25V	elect (low noise)
C103,203	1-161-323-11	Ⓐ 0.001		
C106,206	1-121-916-11	Ⓑ 10	16V	elect (low noise)
C107,207	1-121-916-11	Ⓐ 10	16V	elect (low noise)
C108,208	1-121-416-11	Ⓐ 100	25V	elect
C109,209 C110,210	1-161-272-11	Ⓐ 120p		
C111,211	1-161-317-11	Ⓐ 330p		
C112,212	1-121-915-11	Ⓐ 4.7	25V	elect (low noise)
C113,213	1-121-413-11	Ⓐ 100	6.3V	elect
C114,214	1-123-050-11	Ⓑ 2.2	50V	elect (low noise)
C115,215	1-121-409-11	Ⓐ 47	16V	elect
C116,216	1-161-271-11	Ⓐ 100p		
C117,217	1-121-414-11	Ⓐ 100	10V	elect
C118,218	1-121-450-11	Ⓐ 2.2	50V	elect
C119,219	1-121-395-11	Ⓐ 4.7	25V	elect
C120,220	1-161-261-11	Ⓐ 15p		
C121,221 C122,222	1-102-108-11	Ⓐ 150p		
C123,223	1-102-112-11	Ⓐ 330p		
C124,224	1-108-809-12	Ⓑ 0.027		mylar
C125,225	1-102-125-11	Ⓐ 0.0047		

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

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

TC-K2A

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

Ref. No.	Part No.		Description		
C126,226	1-121-395-11	Ⓐ	4.7	25 V	elect
C127,227	1-161-315-11	Ⓐ	220p		
C128,228	1-121-395-11	Ⓐ	4.7	25 V	elect
C129,229	1-121-651-11	Ⓐ	10	16 V	elect
C130,230	1-121-651-11	Ⓐ	10	16 V	elect
C131,231	1-108-808-12	Ⓐ	0.022	50 V	mylar
C132,232	1-121-651-11	Ⓐ	10	16 V	elect (low noise)
C133,233	1-108-805-12	Ⓐ	0.012 5%		mylar
C134,234	1-108-804-12	Ⓐ	0.01 5%		mylar
C135,235	1-108-813-11	Ⓑ	0.056 5%		mylar
C136,236	1-108-801-11	Ⓐ	0.0056 5%		mylar
C137,237	1-161-257-11	Ⓐ	6.8p		
C138,238	1-121-651-11	Ⓐ	10	16 V	elect
C139,239	1-102-123-11	Ⓐ	0.0033 10%		
C140,240	1-121-986-11	Ⓐ	2.2 20%	50 V	elect
C141,241	1-121-953-11	Ⓐ	3.3 20%	50 V	elect
C142,242	1-102-125-11	Ⓐ	0.0047		
C143,243	1-107-037-11	Ⓐ	82p	500 V	mica
C144,244	1-102-106-11	Ⓐ	100p		
C145,245	1-141-034-11	Ⓑ	120p		trimmer
C146,246	1-108-809-11	Ⓐ	0.027		mylar
C147,247	1-161-315-11	Ⓐ	220p		
C148,248	1-161-320-11	Ⓐ	560p		
C149,249	1-121-651-11	Ⓐ	10	16 V	elect
C150,250	1-108-808-11	Ⓐ	0.022		mylar
C152,252	1-161-313-11	Ⓐ	150p		
C153,253	1-161-323-11	Ⓐ	0.001 (AEP, E model)		
C154,254		Ⓐ	47p	500 V	
C301	1-121-388-11 ⚠	Ⓒ	1,000	50 V	elect
C302	1-121-733-11 ⚠	Ⓑ	470	25 V	elect
C303	1-121-414-11	Ⓐ	100	10 V	elect
C304	1-121-422-11	Ⓑ	220	25 V	elect
C305	1-121-420-11	Ⓑ	220	10 V	elect
C306	1-121-421-11 ⚠	Ⓑ	220	16 V	elect
C307	1-121-479-11	Ⓐ	22	16 V	elect
C308	1-121-352-11	Ⓑ	47	10 V	elect
C309	1-121-395-11	Ⓐ	4.7	25 V	elect
C310	1-131-216-11	Ⓑ	1.5	35 V	tantalum
C311	1-108-804-11	Ⓐ	0.01 5%		mylar
C312	1-108-807-11	Ⓐ	0.018 5%		mylar
C313	1-129-710-11	Ⓐ	0.0047	630 V	plastic

Ref. No.	Part No.		Description		
C401	1-121-413-11	Ⓐ	100	6.3 V	elect
C402	1-121-409-11	Ⓐ	47	16 V	elect
C403	1-121-398-11	Ⓐ	10	25 V	elect

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on the last page for their part numbers.

R312	1-246-453-11 ⚠	Ⓑ	150	¼W	carbon
RV101	1-226-207-00	Ⓔ	Variable, 2-gang; 20 k/20 k; REC LEVEL		
RV102,202	1-224-641-XX	Ⓑ	Adjustable, 470		
RV103,203	1-224-644-XX	Ⓑ	Adjustable, 4.7 k		
RV401	1-224-641-XX	Ⓑ	Adjustable, 470		

SWITCHES

S1	1-516-263-00	Ⓓ	Slide, record/playback
S2	1-552-368-00	Ⓒ	Lever-slide, DOLBY NR
S3	1-552-366-00	Ⓒ	Lever-slide, TAPE SELECT
S4	1-514-912-00	Ⓑ	Leaf, muting
S5	1-516-686-00	Ⓒ	Push, timing (AEP, E model)
S6	1-552-018-00 ⚠		Push, POWER (US, Canadian model)
	1-552-206-11 ⚠	Ⓓ	Push, POWER (AEP, E model)
S7	1-516-853-XX	Ⓒ	Leaf, motor
S8	1-514-912-00	Ⓑ	Leaf, motor

CONNECTORS

CNJ1	1-536-501-21	Ⓓ	Jack, phono/DIN; LINE IN, LINE OUT, REC/PB (AEP, E model)
CNJ2–3	1-507-554-21	Ⓒ	Jack, MIC
CNJ4	1-507-553-00	Ⓒ	Jack, binaural; HEADPHONES
CNJ6	1-509-546-00 ⚠	Ⓓ	Connector, 3-p; AC IN (AEP, E model)

MISCELLANEOUS

CP301	1-231-057-31 ⚠	Ⓑ	Encapsulated Component (AEP, E model)
	1-231-326-11 ⚠		Encapsulated Component (US model)
	1-231-341-21 ⚠		Encapsulated Component (Canadian 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 tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.		Description
EH	8-825-506-00	Ⓒ	Head, erase; EF135-36
F1	1-532-079-00 ⚠	Ⓑ	Fuse, 160 mA (AEP, E model)
FL101,201	1-231-372-00	Ⓓ	Filter, low-pass
L101,201	1-407-211-XX	Ⓑ	Coil, miniature; 27 mH
M	8-835-006-00	Ⓛ	Motor, DNF-1001B
ME101,201	1-520-336-00	Ⓙ	Meter, VU
PL1,2	1-518-309-00	Ⓑ	Lamp, VU meter
RPH	8-825-710-00	Ⓛ	Head, record/playback; PF180-3602A
VS	1-552-026-00 ⚠	Ⓔ	Voltage Selector (AEP, E model)
	1-534-538-XX ⚠		Cord, power (US model)
	1-548-502-71	Ⓔ	Counter, tape
	1-551-207-00 ⚠		Cord, power (Canadian model)
	1-551-294-21	Ⓔ	Cord, shielded; LINE IN, LINE OUT (US, Canadian 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 tramé 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.

ACCESSORIES & PACKING MATERIALS

Part No.		Description
X-3701-105-0	Ⓐ	Tip Ass'y, head cleaning
1-534-049-31	Ⓕ	Cord, connection; RK-74H (AEP, E model)
1-534-754-00	⚠Ⓔ	Cord, power; Euro plug
1-551-216-00	⚠Ⓗ	Cord, power; parallel-brade plug
3-552-144-00	Ⓔ	Carton (AEP, E model)
3-552-145-02		Carton (US, Canadian model)
3-552-150-00	Ⓐ	Bag, plastic
3-701-046-01		Label, home entertainment (Canadian model)
3-701-630-00	Ⓐ	Bag, plastic
3-701-684-11	Ⓐ	Card, power voltage (AEP, E model)
3-770-460-11	Ⓑ	Manual, instruction (AEP, E model)
3-770-460-21		Manual, instruction (US model)
3-770-460-21, 3-794-180-31		Manual, instruction; w/French version (Canadian model)
3-793-749-11	Ⓑ	Card, Dolby (AEP model)
3-793-828-11	Ⓐ	Card, cassette caution
3-794-060-11	Ⓑ	Card, voltage selection (AEP, E model)

1/4 WATT CARBON RESISTORS Ⓐ

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	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		

Sony Corporation

9-954-632-01

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Printed in Ja

STEREO-CASSETTE DECK

TC-K2A

AEP Model
E Model
Canadian Model
US Model

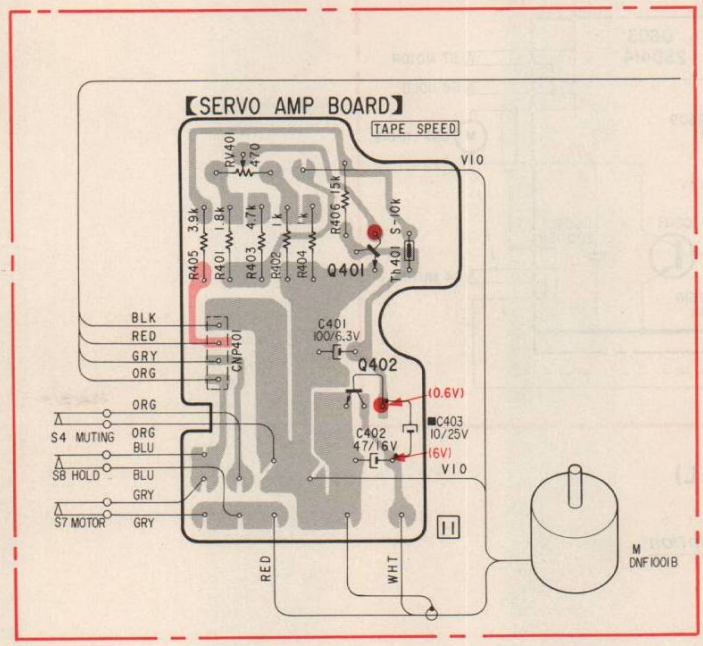
SUPPLEMENT

No. 1
September, 1978

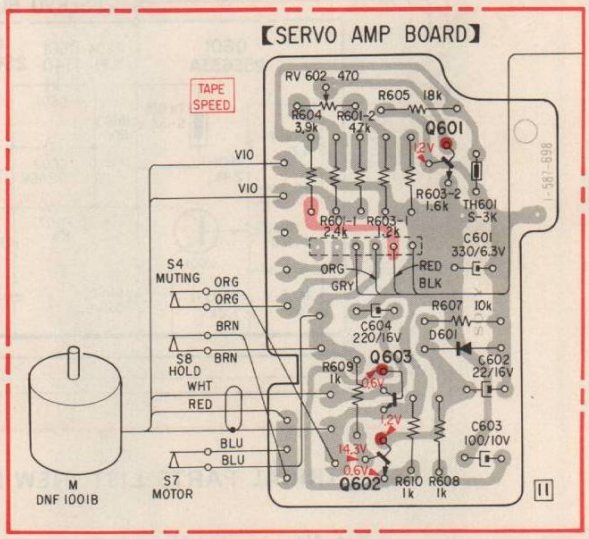
This supplement includes production changes in the servo circuit and its printed circuit board for the new model.
File this supplement with the service manual.

1. MOUNTING DIAGRAM (Page 13)

– FORMER MODEL –



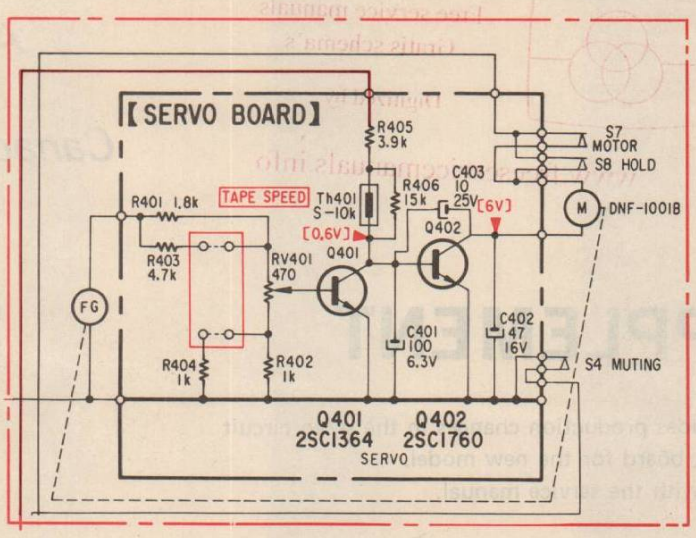
– NEW MODEL –



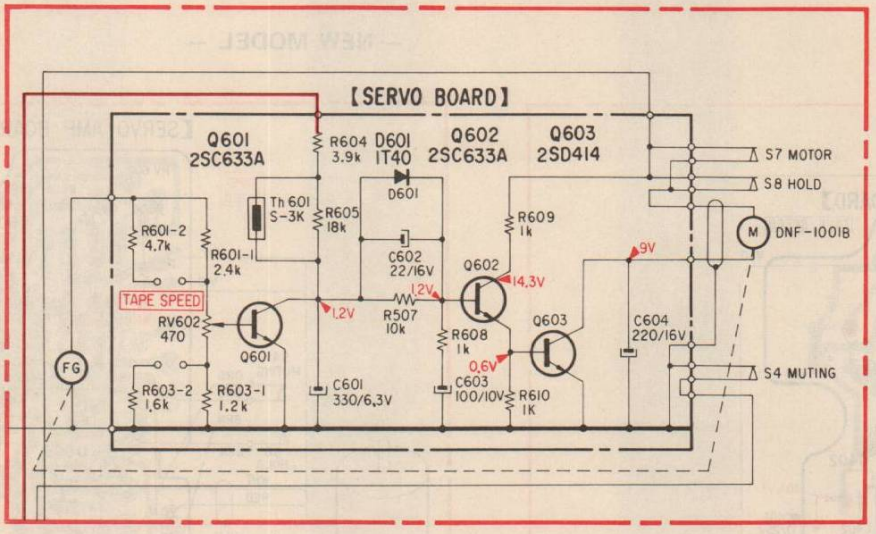
SONY
SERVICE MANUAL

2. CIRCUIT DIAGRAM (Page 16)

– FORMER MODEL –



– NEW MODEL –



3. ELECTRICAL PARTS LIST (NEW MODEL)

Ref. No.	*Part No.*		*Description*		
⇒ Q601,602	8-726-388-00	Ⓑ	2SC634A		
Q603	8-729-141-43	Ⓑ	2SD414		
D601	8-719-815-55	Ⓑ	1S1555		
Th601	1-800-200-00	Ⓐ	S-3K		
C601	1-121-751-11	Ⓑ	330	6.3V	elect
C602	1-121-479-11	Ⓐ	22	16V	elect
C603	1-121-414-11	Ⓐ	100	10V	elect
C604	1-121-421-11	Ⓑ	220	16V	elect
RV602	1-224-641-XX	Ⓑ	470, adjustable; tape speed		

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

Sony Corporation

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