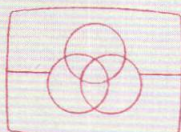


TC-158SD

*US Model
Canadian Model
AEP Model
E Model*



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STEREO CASSETTE-CORDER

SPECIFICATIONS

Power Requirements:	AC 120V 60 Hz (US, Canadian model)	Fast Forward and	
	AC 110, 120, 220 or 240V—50/60 Hz (AEP, E model)	Rewind Time:	Approx. 90 sec. (C-60, at 6V)
	DC 6V	Recording System:	4-track 2-channel stereo
	four batteries of size D (IEC designation R20)	Speaker:	10 cm (4 inches) dia.
	Sony Rechargeable Battery Pack BP-8H (optional)	Power Output:	700 mW
	12V car battery with Sony Car Battery Cord DCC-129 (optional)	Bias Frequency:	105 kHz
Power Consumption:	12W	Signal-to-noise Ratio:	DOLBY NR OFF
			With Ferri-Chrome Cassette
Dimensions:	Approx. 350 (w) x 100 (h) x 240 (d) mm		59 dB at peak level (NAB)
	13 ³ / ₄ (w) x 4 (h) x 9 ³ / ₈ (d) inches including projecting parts and controls		57 dB (DIN, 1975 rev.)
Weight:	Approx. 4.8 kg, 10 lb 9 oz with batteries		49 dB (DIN, old)
			With chromium dioxide cassette
			55 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%

* '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

SAFETY-RELATED COMPONENT WARNING!!

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

— Continued on page 2 —

CAUTION OF VOLTAGE SELECTOR SETTING

When changing a voltage of the voltage selector, be sure to disconnect the ac power cord.

SONY®

SERVICE MANUAL

Frequency Response: DOLBY NR OFF
 With Ferri-Chrome Cassette and
 chromium dioxide cassette
 20–16,000 Hz (NAB)
 30–15,000 Hz $\pm$ 3 dB (NAB)
 30–15,000 Hz (DIN)
 With regular cassette
 20–14,000 Hz (NAB)
 30–12,000 Hz (DIN)

Wow and Flutter: 0.08% WRMS (NAB)
 $\pm$ 0.2% (DIN)

Inputs: MIC (phone jack) 2
 sensitivity 0.2 mV (–72 dB)
 for a low-impedance microphone
 LINE IN (phono jack) 2
 sensitivity 0.06 V (–22 dB)
 input impedance 100 k ohms

Outputs: LINE OUT (phono jack) 2
 output level 0.435 V (–5 dB)
 at load impedance 100 k ohms
 suitable load impedance more than
 10 k ohms
 HEADPHONES 1
 suitable load impedance
 8–32 ohms

Record/playback

Connector: Input impedance less than 10 k ohms
 (AEP, E model) Output impedance less than 10 k ohms

Battery Life: Continuous recording time
 Approx. 4.5 hours with Sony Long-life
 Batteries size D
 Approx. 10 hours with Eveready
 Alkaline Batteries No. E95

MODEL IDENTIFICATION

— Specification Label —

US model

SONY [®]	
TAPECORDER	TC-158SD
AC 120V 60Hz 12W	DC 6V FLASH-
LIGHT BATT SIZE "D"x4 OR EQUIVALENT	
NO.	
MADE IN JAPAN	
3 - 549 - 157 - 00	

Canadian model

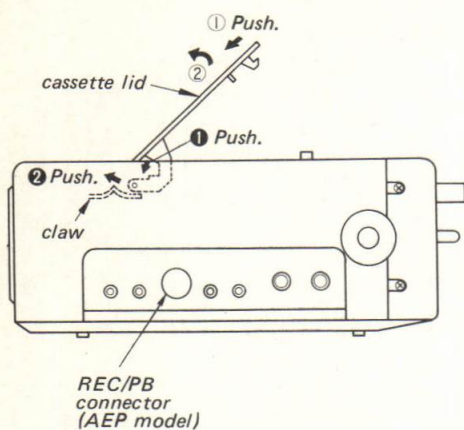
SONY [®]	
TAPECORDER	TC-158SD
AC 120V 60Hz 12W	DC 6V FLASH-
LIGHT BATT SIZE "D"x4 OR EQUIVALENT	
NO.	
MADE IN JAPAN	
3 - 549 - 158 - 00	

AEP, E model

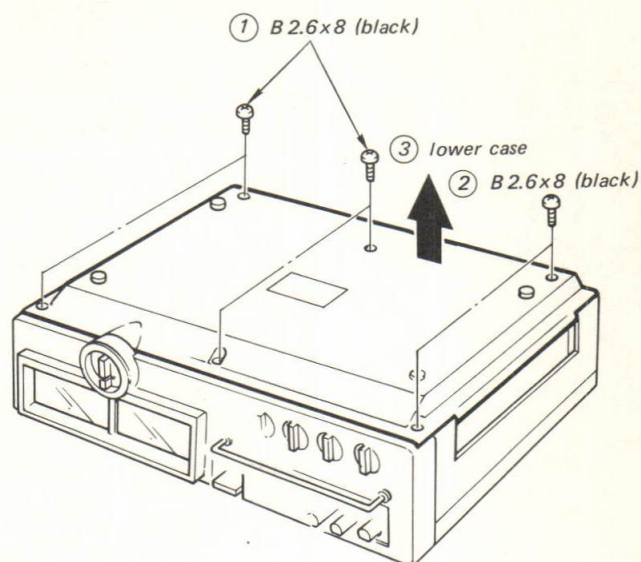
SONY [®]	
TAPECORDER	TC-158SD
AC 110, 120, 220, 240V $\sim$ 50/60Hz 12W	
DC 6V FLASHLIGHT BATTERY	
(SIZE "D")x4 OR EQUIV.	
NO.	
MADE IN JAPAN	
3 - 549 - 160 - 00	

SECTION 2 DISASSEMBLY

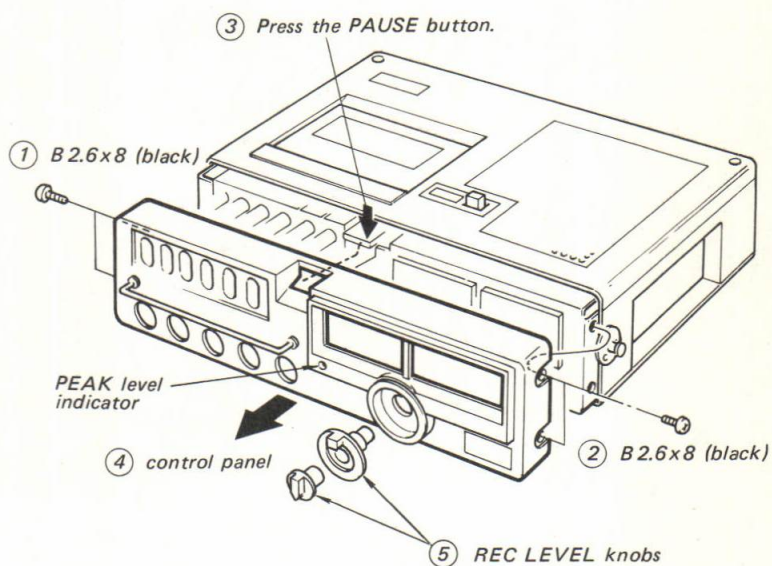
Cassette Lid Removal (①, ②) and Replacement (①, ②)



Lower Case Removal

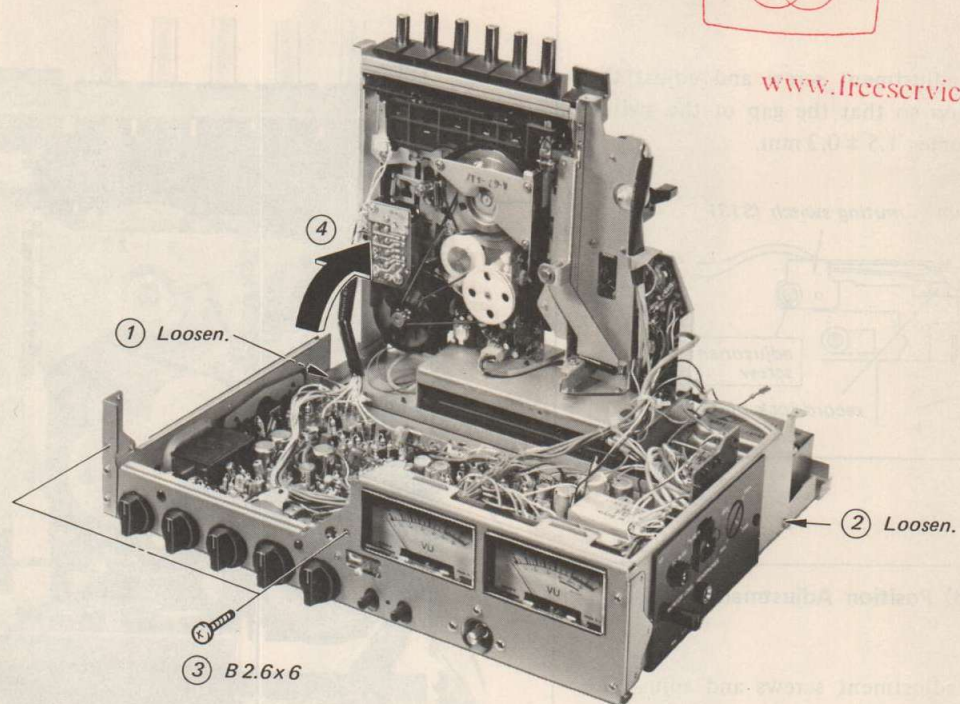


Control Panel Removal



Note: When replacing the control panel, take care of the PEAK level indicator position.

Tape Recorder Mechanism Lifting

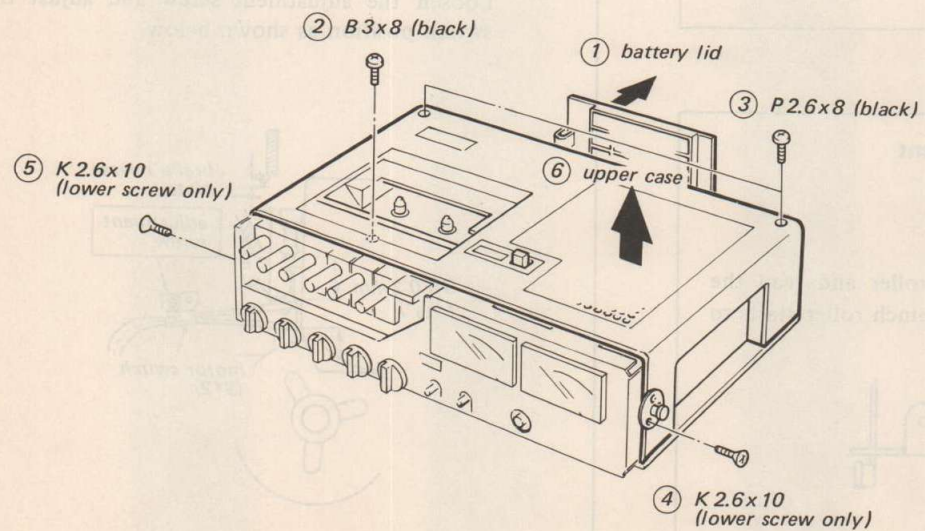


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Upper Case Removal



SECTION 3 ADJUSTMENTS

PRECAUTION

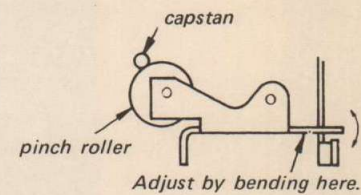
1. Clean the following parts with a denatured-alcohol-moistened swab:

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.

Pause Timing Adjustment

— Playback mode —

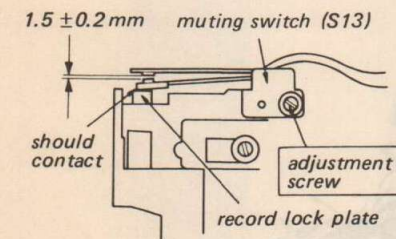
1. The take-up reel spindle flange should touch the tension pulley.
2. Slowly press PAUSE button. First, the pinch roller should release from the capstan. Next, the tension pulley should release from the take-up reel spindle flange. Under this condition, adjust the position of the pinch roller by bending the specified parts.



Muting Switch (S13) Position Adjustment

— Stop mode —

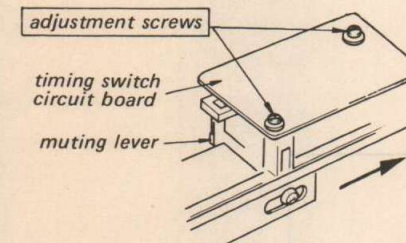
Loosen the adjustment screw and adjust the switch position so that the gap of the switch contacts becomes 1.5 ± 0.2 mm.



Timing Switch (S3) Position Adjustment

— Stop mode —

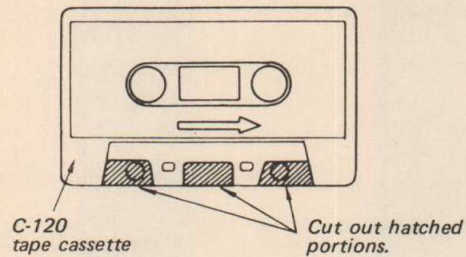
Loosen the adjustment screws and adjust the position of the timing switch circuit board in the arrowed direction so that the muting lever just starts to pull the slide of the switch.



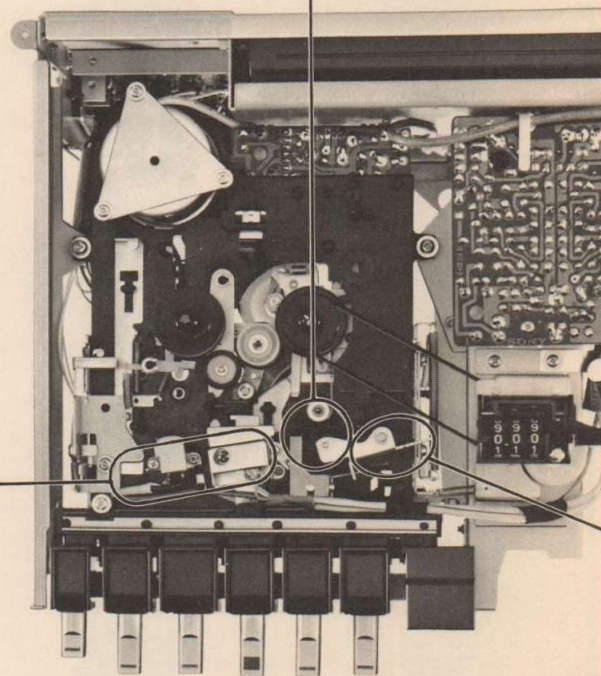
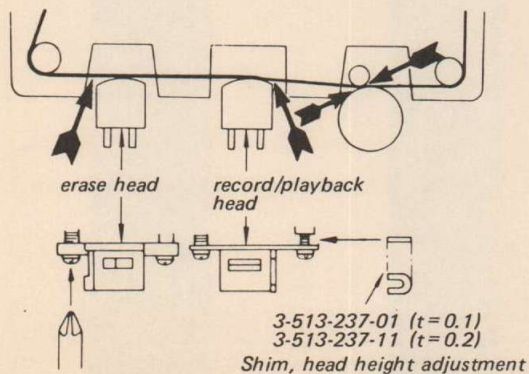
Head Height Adjustment

— Playback mode —

1. Make an adjustment cassette as shown below.



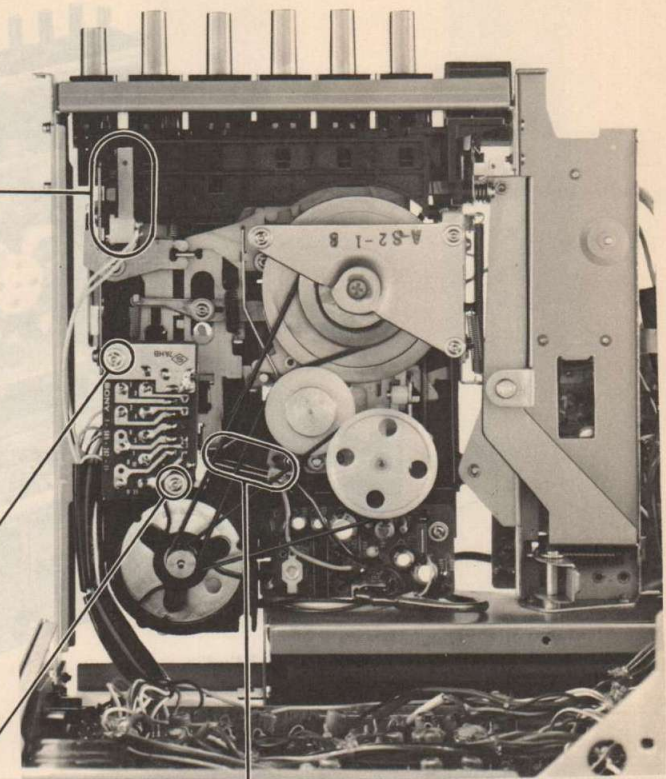
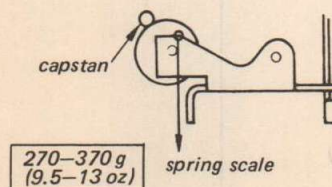
2. In playback mode and viewing from the top, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



Pinch Roller Pressure Measurement

— Playback mode —

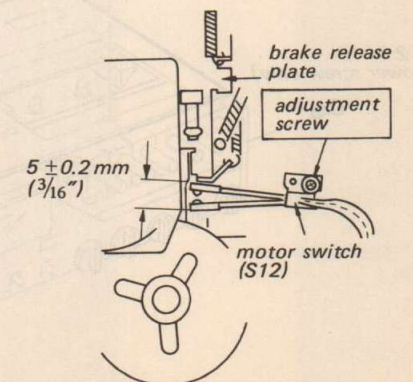
1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.



Motor Switch (S12) Position Adjustment

— Stop mode —

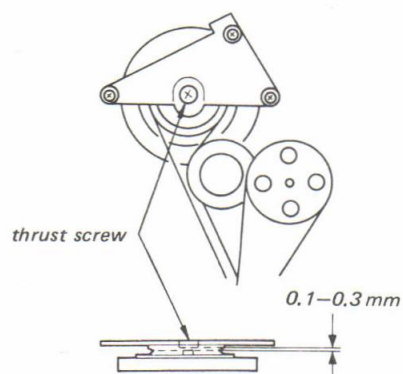
Loosen the adjustment screw and adjust the switch position as shown below.



Flywheel Thrust Play Adjustment

— Playback mode —

1. Carefully turn the thrust screw clockwise for no lengthwise play of the capstan shaft.
2. Turn the thrust screw counterclockwise $\frac{1}{5}$ to $\frac{3}{5}$ turns so that the lengthwise thrust play becomes 0.1–0.3 mm.



Reference Data:

Forward Torque

Torque meter	Meter reading
CQ-101A	30–60 g.cm (0.42–0.83 oz.inch)

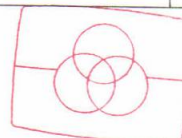
Deviation: less than 10 g.cm (0.14 oz.inch)

Back Tension Torque

Torque meter	Meter reading
CQ-102A	2–4 g.cm (0.028–0.055 oz.inch)

Fast Forward and Rewind Torque

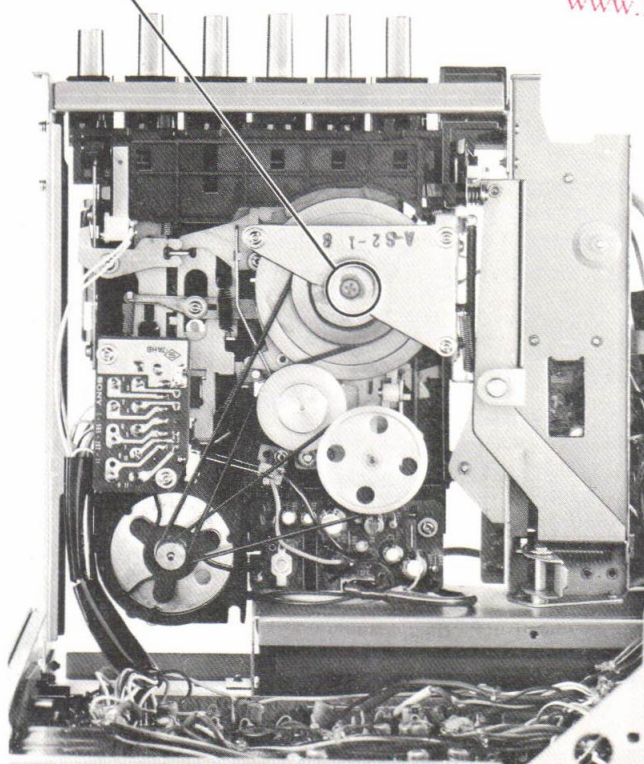
Torque meter	Meter reading
CQ-201A	55–95 g.cm (0.77–1.32 oz.inch)



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3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

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

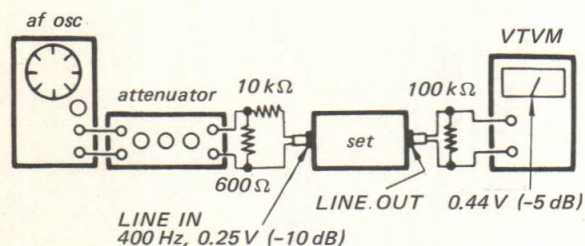
LIMITER switch: OFF
DOLBY NR switch: OFF
TAPE SELECT EQ switch: NORMAL
TAPE SELECT BIAS switch: NORMAL
MONITOR LEVEL control: MAX

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

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

Standard Record:

Set the REC LEVEL control for the specified output level.



Standard Input Level

	Source impedance	Input level
MIC	300 Ω	0.77 mV (-60 dB)
LINE IN	10 kΩ	0.25 V (-10 dB)
REC/PB	100 kΩ	31 mV (-28 dB)

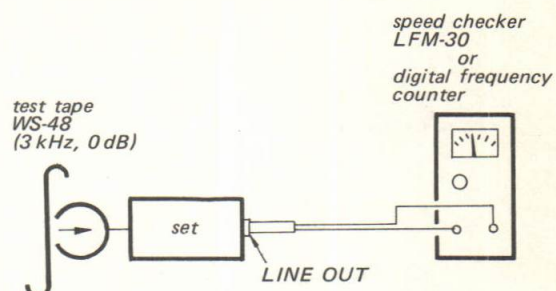
Standard Output Level

	Load impedance	Output level
LINE OUT	100 kΩ	0.44 V (-5 dB)
HEADPHONES	8 Ω	95 mV (-18 dB)
REC/PB	50 kΩ	0.44 V (-5 dB)

Tape Speed Adjustment

Procedure:

Mode: playback

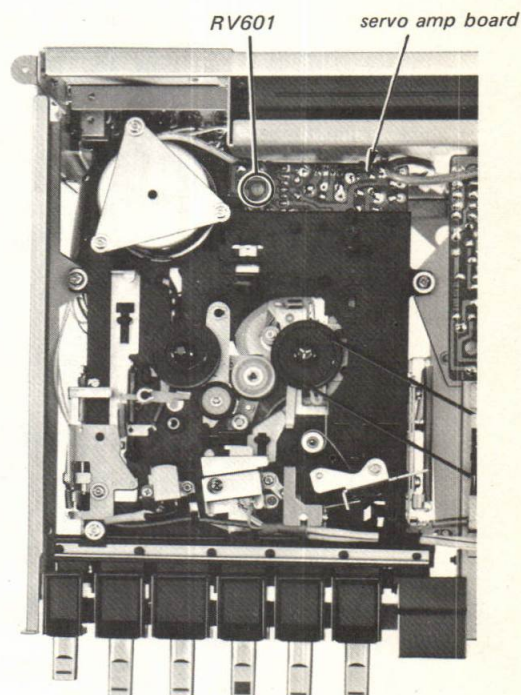


Specification:

Frequency at beginning and end of tape should be within;

Speed checker	Digital frequency counter
±0.3%	2,990 Hz-3,010 Hz

Adjustment Location:

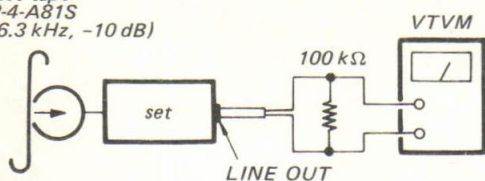


Record/playback Head Azimuth Adjustment

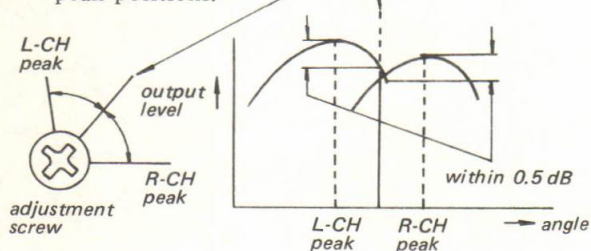
Procedure:

1. Mode: playback

test tape
P-4-A81S
(6.3 kHz, -10 dB)

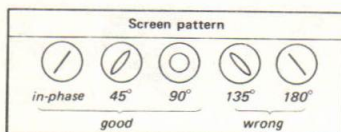
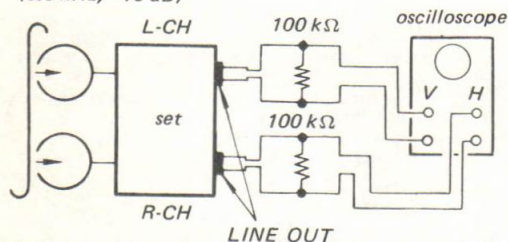


2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak positions.

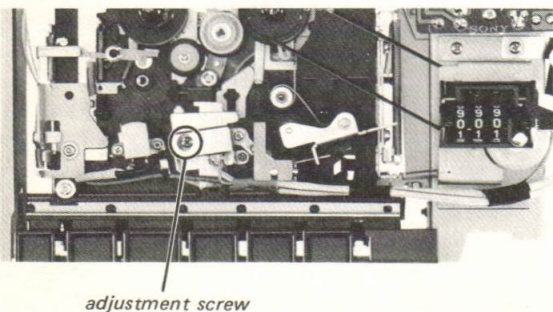


3. Mode: playback

test tape
P-4-A81S
(6.3 kHz, -10 dB)



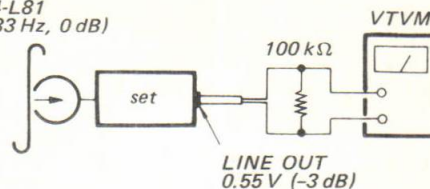
Adjustment Location:



Playback Level Adjustment

Procedure:

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

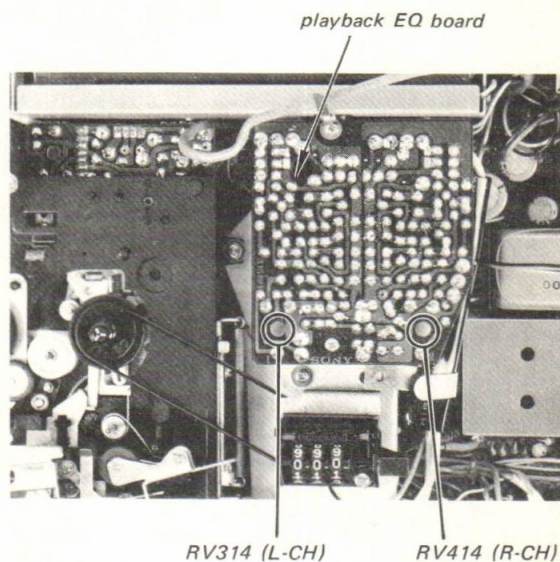


Specification:

LINE OUT level: 0.52 V–0.58 V
(-3 dB $\pm$ 0.5 dB)

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

Adjustment Location:

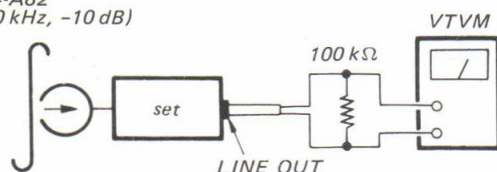


Playback Equalizer Adjustment

Procedure:

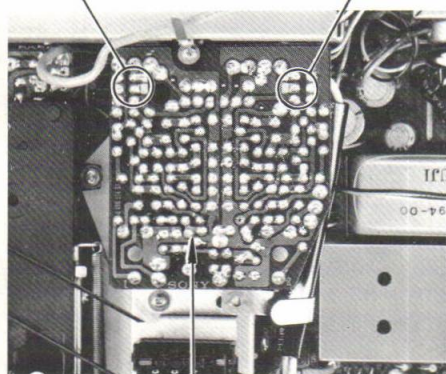
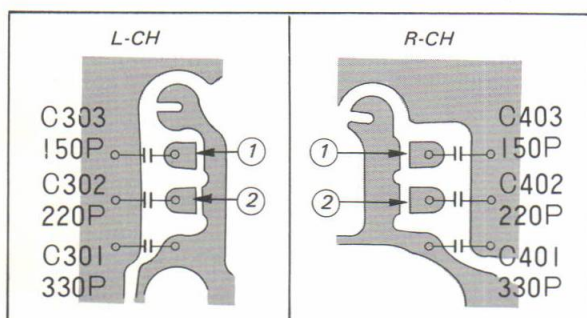
Mode: playback

test tape
P-4-A82
(10 kHz, -10 dB)



Adjust the pattern connection for
206 mV–103 mV (-11.5 dB–-17.5 dB) reading
on VTVM.

Adjustment Location:



playback EQ board

Pattern connection	10 kHz VTVM reading
①	down
②	↑
① and ②	up

Reference Data:

Level difference between NORMAL and CrO₂
or Fe-Cr positions of TAPE SELECT switch;
4.5 dB ± 1 dB.

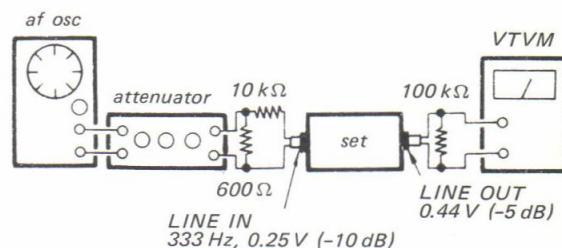
Level Meter Calibration

Setting:

REC LEVEL control: standard record
(See page 10.)

Procedure:

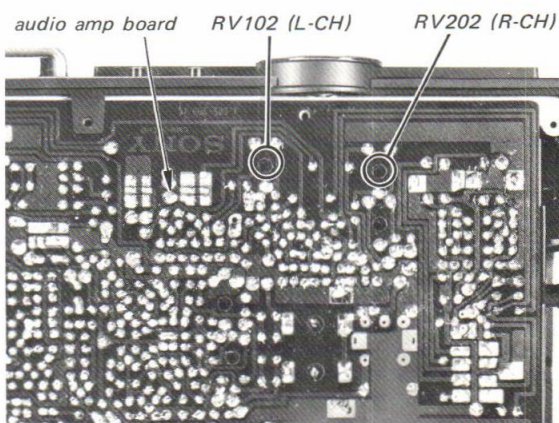
1. Mode: record



- 2.

Adjust	VU meter indication
RV102 (L-CH)	
RV202 (R-CH)	

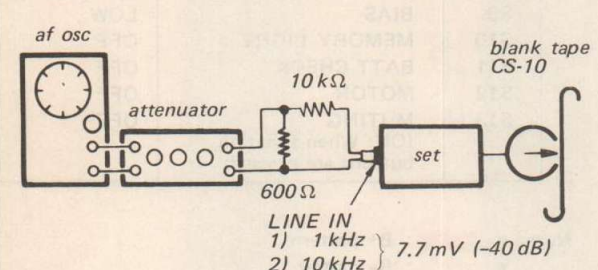
Adjustment Location:



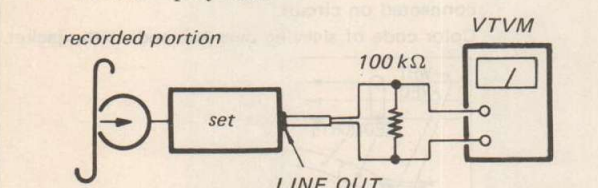
Record Bias Adjustment

Setting:
REC LEVEL control: standard record
(See page 10.)

Procedure:
1. Mode: record

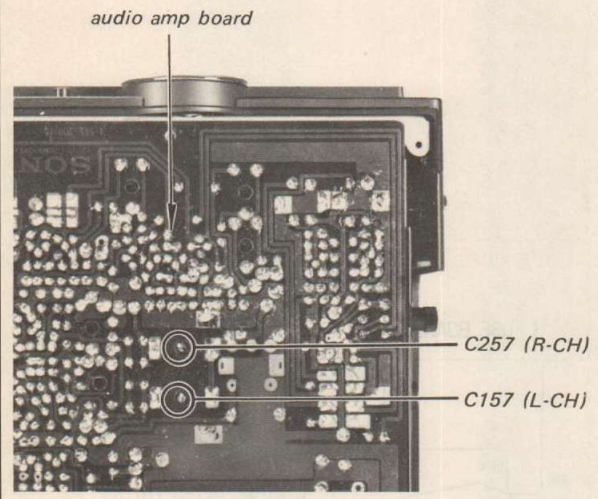


2. Mode: playback



3. Repeating above steps, adjust C157 (L-CH) and C257 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

Adjustment Location:

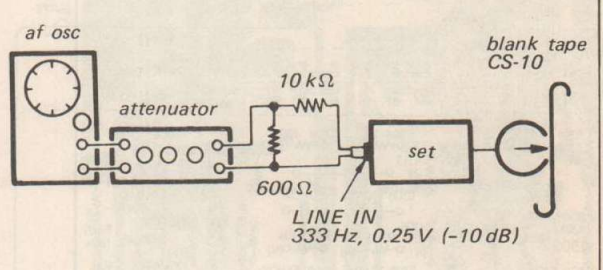


Note: When the 10 kHz level is low, turn C157 or C257 counterclockwise.

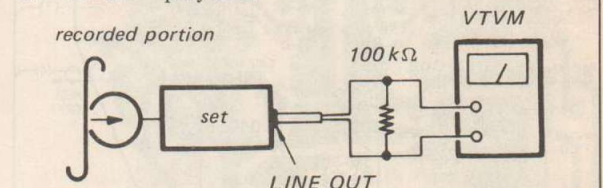
Record Level Adjustment

Setting:
REC LEVEL control: standard record
(See page 10.)

Procedure:
1. Mode: record

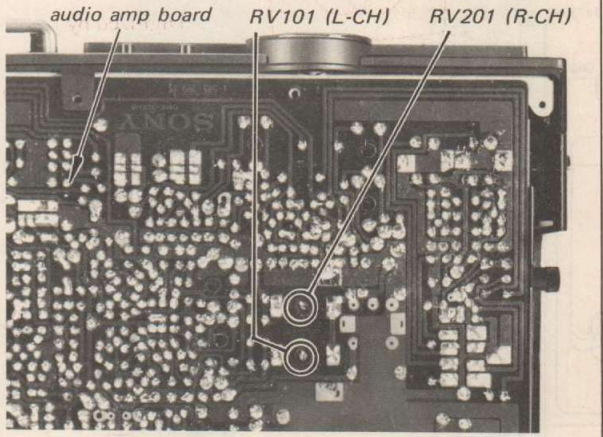


2. Mode: playback



3. Repeating above steps, adjust RV101 (L-CH) and RV201 (R-CH) for 0.44V (-5 dB) reading on VTVM.

Adjustment Location:



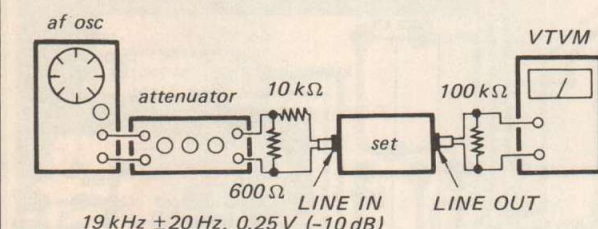
4. Change the blank tape to CS-20 or CS30 and measure the LINE OUT level.

Blank tape	LINE OUT level
CS-10	0.44 V (-5 dB)
CS-20	0.35 V-0.55 V
CS-30	(-7 dB--3 dB)

19 kHz Filter Adjustment

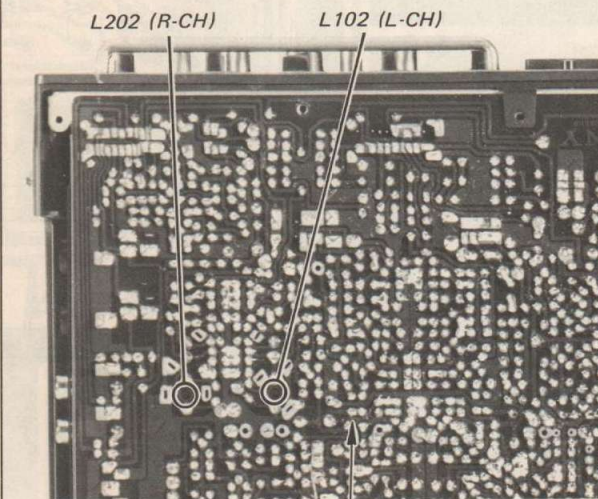
Setting:
REC LEVEL control: standard record
(See page 10.)

Procedure:



Adjust L102 (L-CH) and L202 (R-CH) for a minimum reading on VTVM.

Adjustment Location:

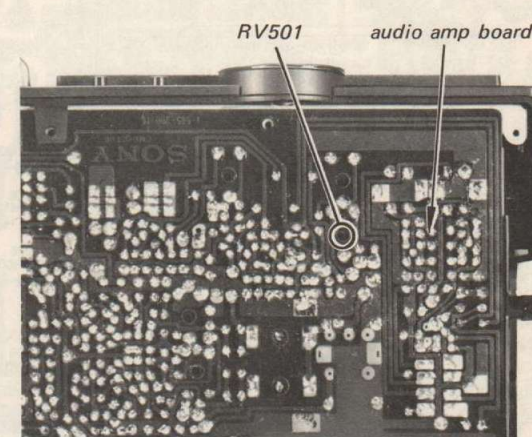


Battery Meter Calibration

Setting:
Power Supply Voltage: 4.4V dc
BATT CHECK button: ON (Press.)
Mode: playback with no cassette loaded

Adjustment Location and Specification:

Adjust	Meter indication
RV501	



Reference Data:
MIC ATT attenuate level: 20 dB ± 2 dB
MEMORY LIGHT lighting time: about 10 seconds

SECTION 4
DIAGRAMS

4-1. SEMICONDUCTORS

(): Replacement Semiconductors

Q101, 102, 104
Q111, 112, 201
Q202, 204, 211
Q212, 301, 302
Q401, 402
Q103, 105-110
Q115-118, 120
Q203, 205-210
Q215-218, 220
Q303, 403
Q501-503,
Q508-510,
Q513, 514, 516

2SC632A

2SC634A

Q113, 114, 213
Q214, 504, 511

2SA678

Q119, 219
Q506, 515

2SC1474

Q505: 2SK23A (2SK23A-525)

Q507: 2SA772 (2SA684)

Q512: 2SC1173

Q601: 2SC1761 (2SC1760)

D101, 201: V06C (V09C)

D102, 104, 106
D107, 202, 204
D206, 207, 602
D103, 105, 108
D203, 205, 208
D502, 504, 505
D601
D503:
D506-509:

1T22A

1S1555

RD4A
10E2

D501: SLP24B

D510: EQA01-08 (EQB01-08)

IC601: CX065

- 13 -

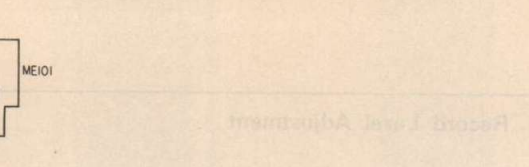
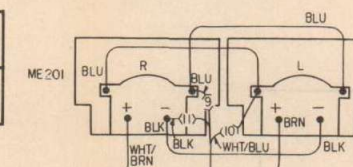
- 14 -

- 15 -

4-2. MOUNTING DIAGRAM

— Conductor Side —

Q	201	101	220	219	102	119	111	107	108	110	210	207	206	214	213	212	115	116	505	117	215	216	217	118	218	
		202	120	516	509	511	508	106	105	109	209	208	204,203	502	113	114	504	506	514	507			513	512		
D								103	105	205	202	204	203							107	106			206	503	506
		505							104	102		201		108	208		504	502				510	207		507	508
										101															509	

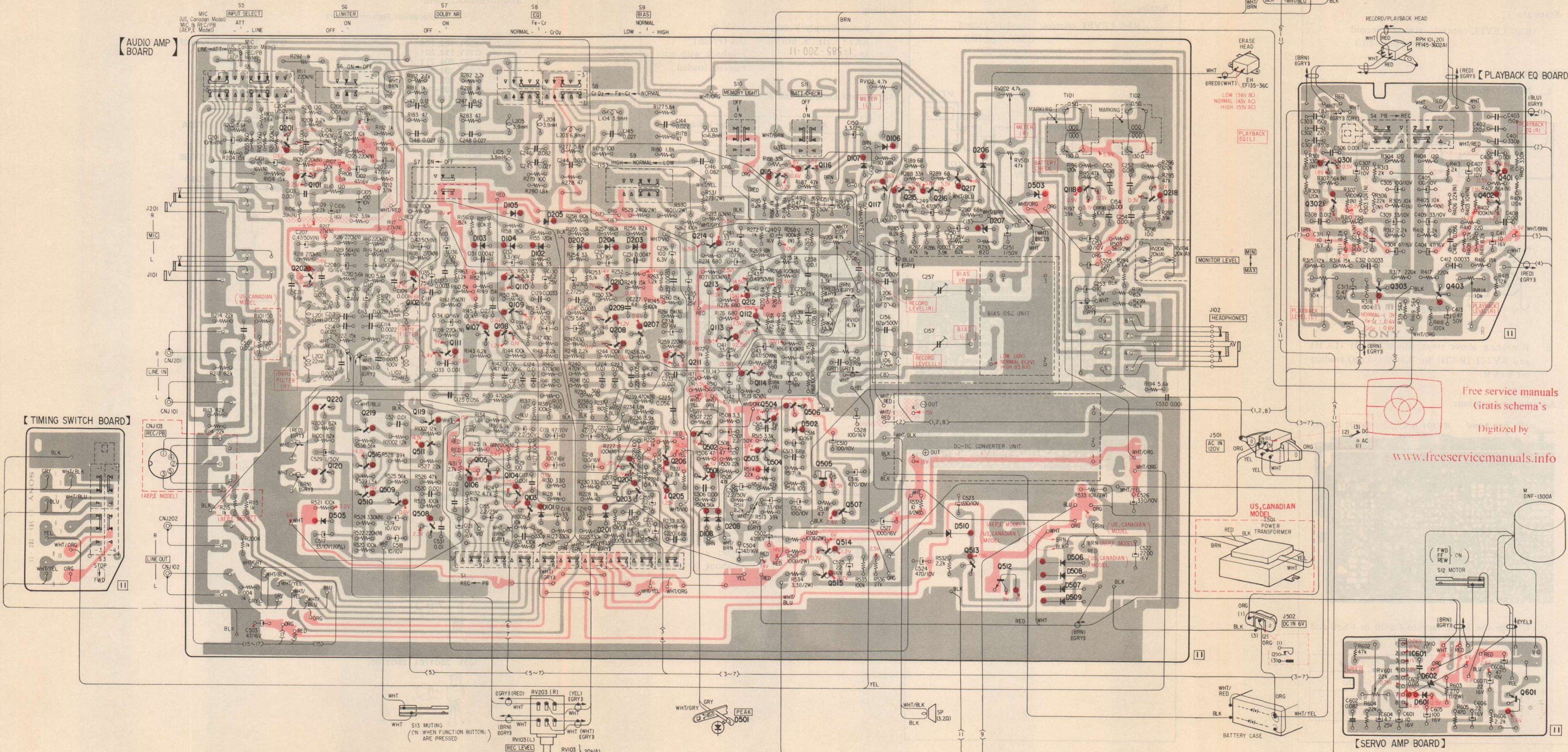
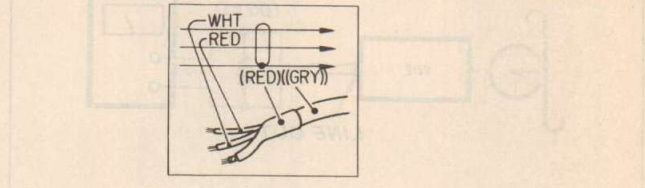


• Switch:

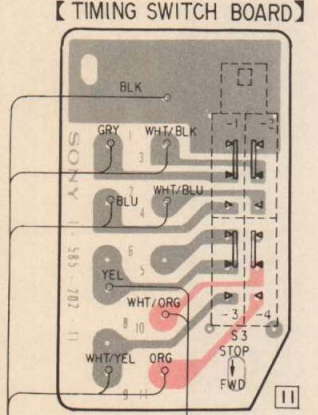
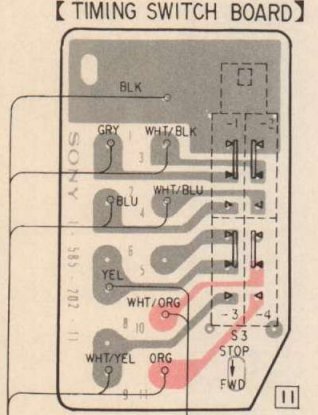
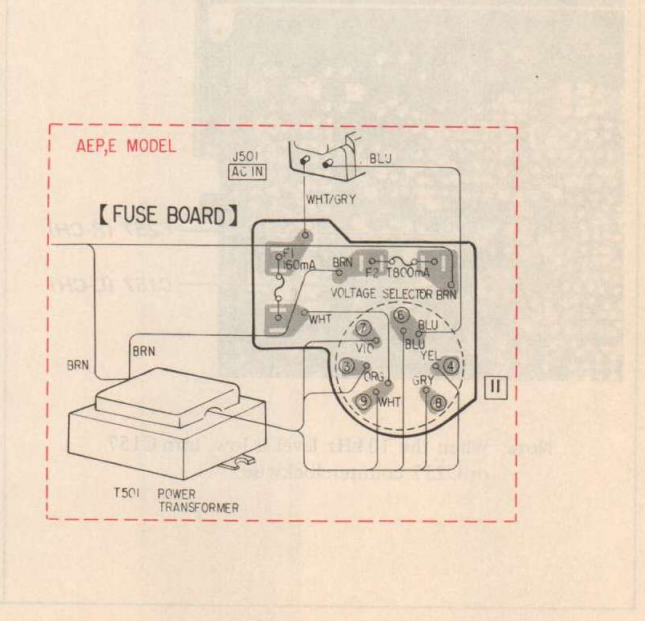
Ref. No.	Switch	Position
S1	RECORD/PLAYBACK	PLAYBACK
S2	AC/DC	DC
S3	TIMING	STOP
S4	RECORD/PLAYBACK	PLAYBACK
S5	INPUT SELECT	LINE
S6	LIMITER	OFF
S7	DOLBY NR	OFF
S8	EQ	NORMAL
S9	BIAS	LOW
S10	MEMORY LIGHT	OFF
S11	BATT CHECK	OFF
S12	MOTOR	OFF
S13	MUTING	OFF

(ON: When function buttons are pressed)

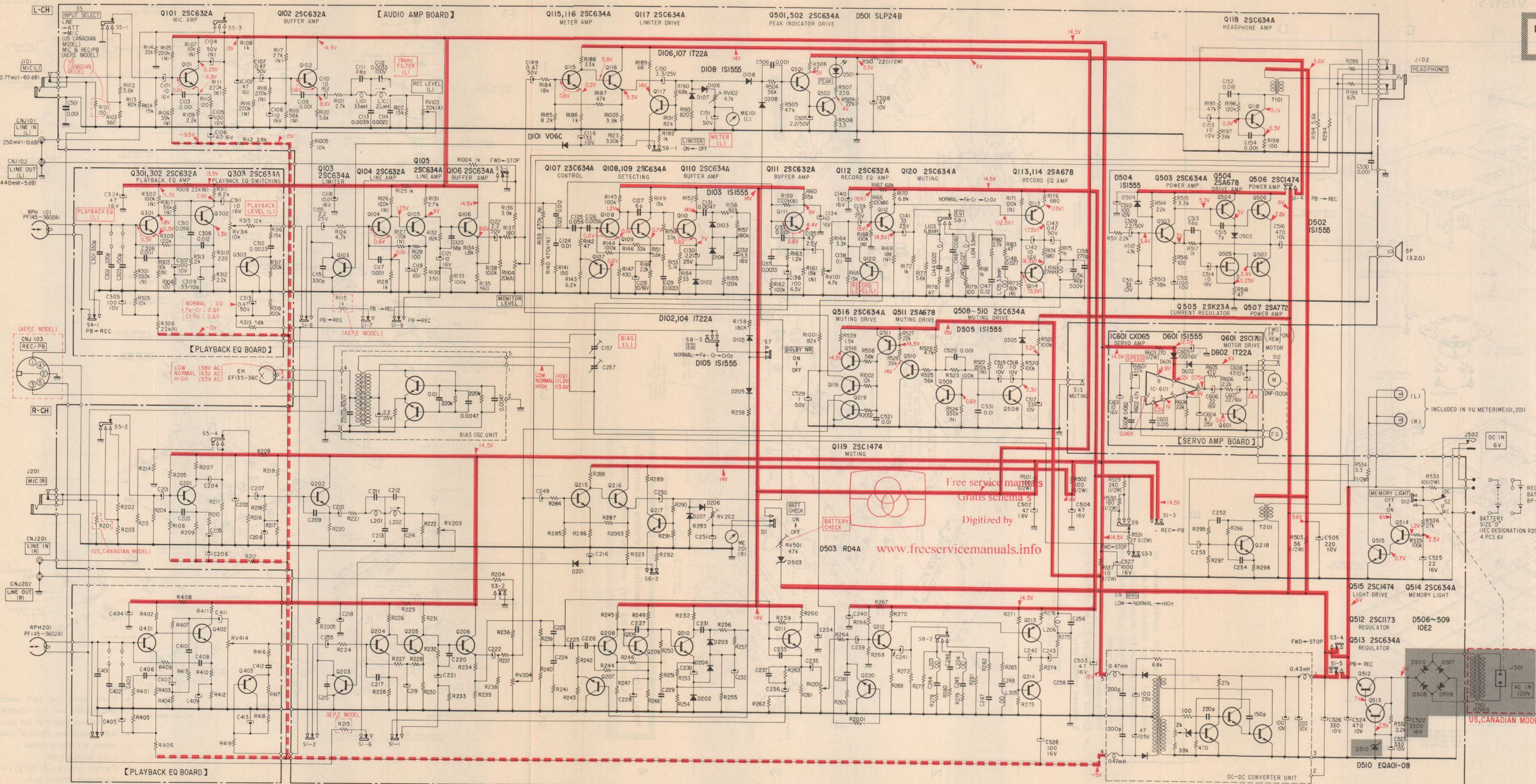
Note: • ■ : B+ pattern.
 • ■ : B- pattern.
 • DC resistance measurements shown with coils connected on circuit.
 • Color code of sleeving over the end of the jacket.



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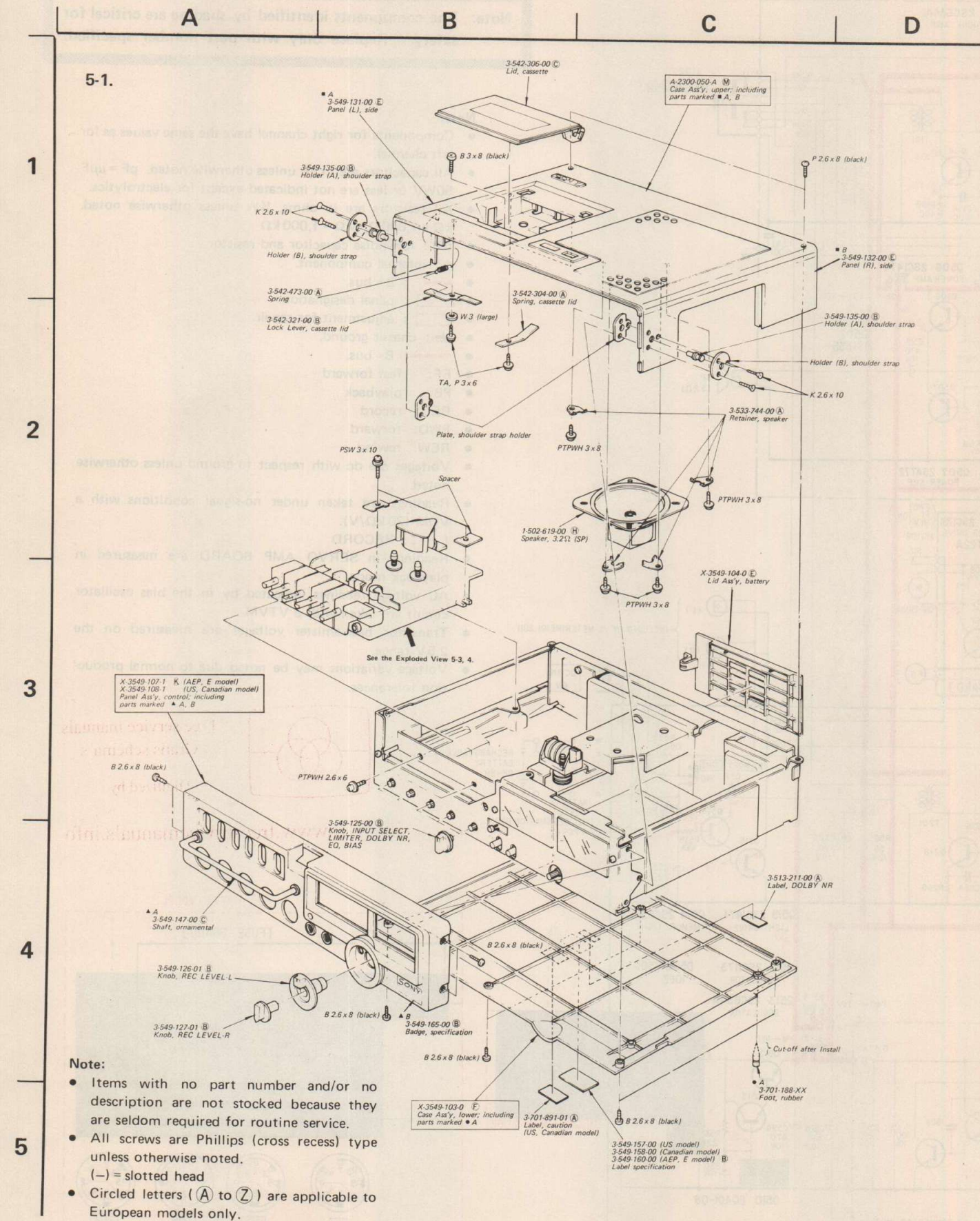


4-3. SCHEMATIC DIAGRAM

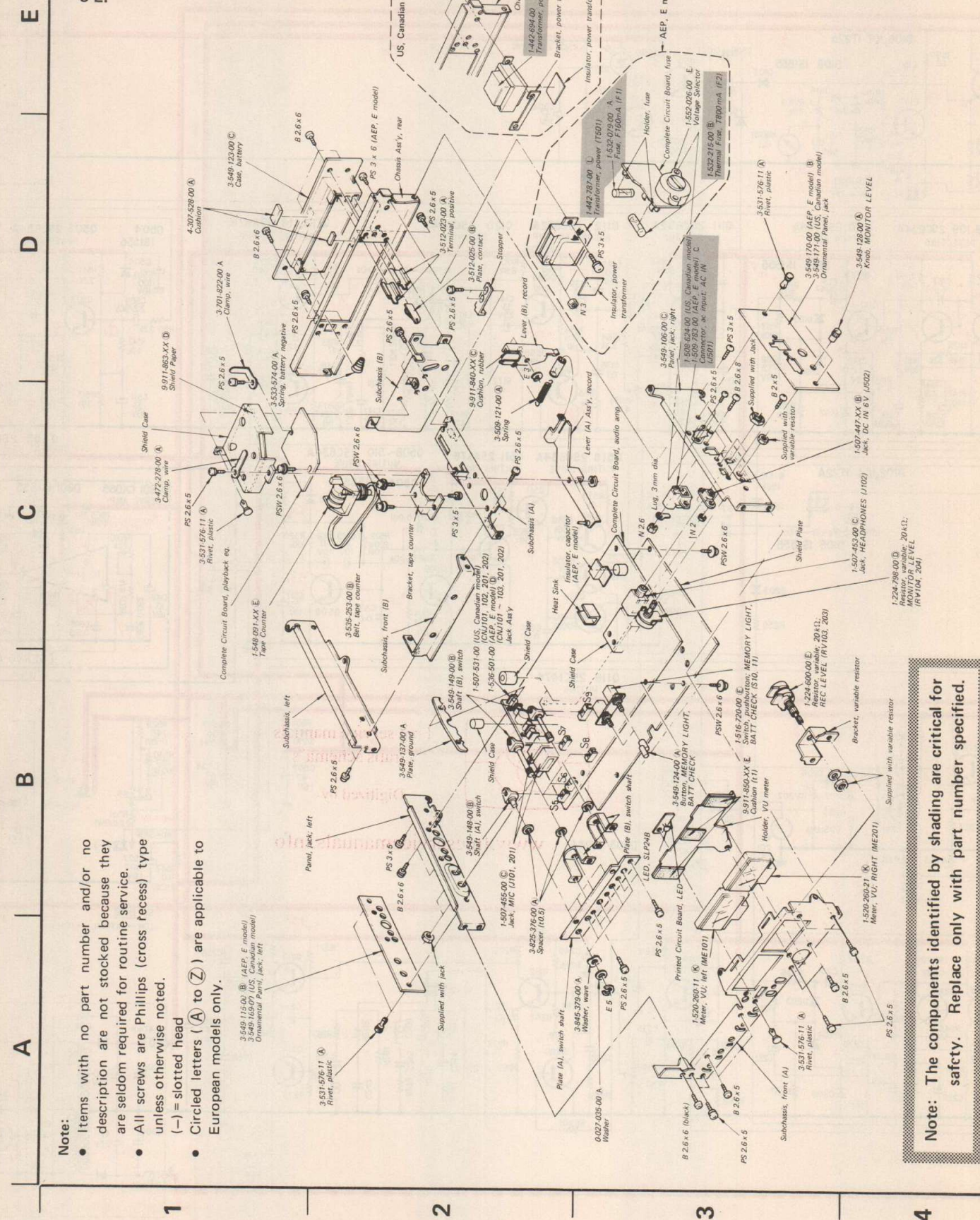


SECTION 5

EXPLODED VIEWS



5-2.



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

Note:

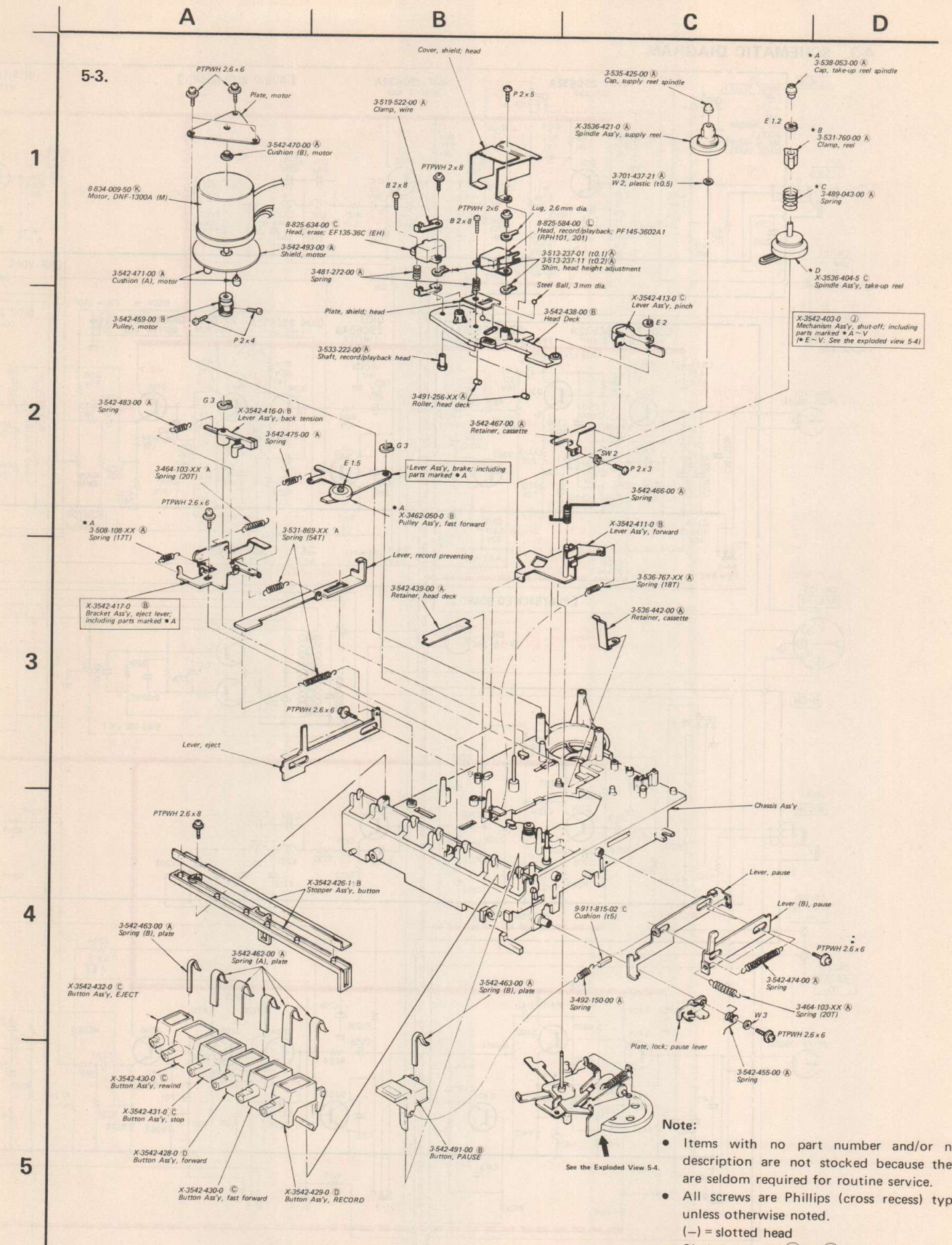
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (—) = slotted head
- Circled letters ($\mathbb{A}$ to $\mathbb{Z}$) are applicable to European models only.

1

2

3

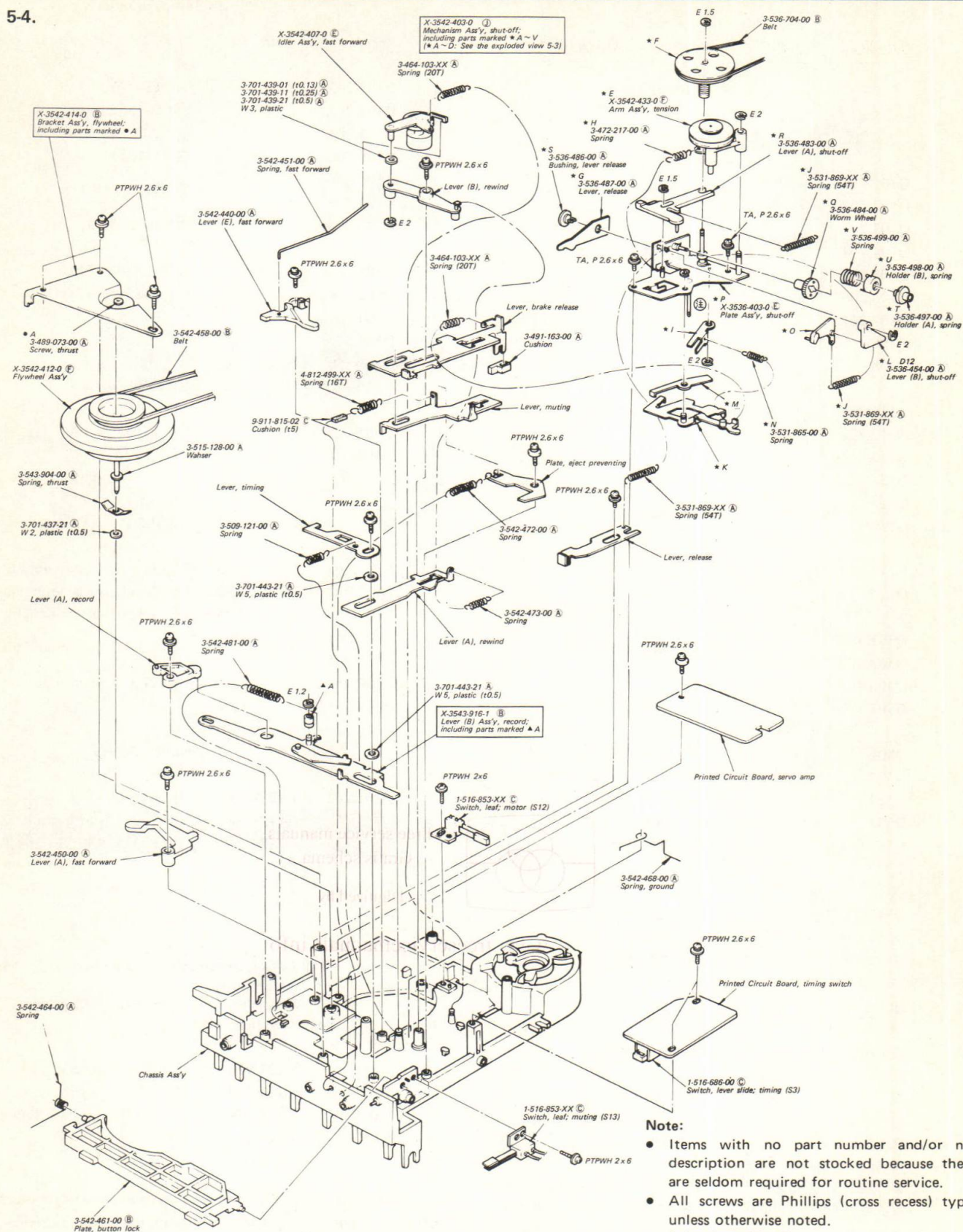
4



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

5-4.



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

SECTION 6

ELECTRICAL PARTS LIST

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

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
SEMICONDUCTORS					
Transistors					
Q101,201	(B)	2SC632A	D102,202	(B)	1T22A
Q102,202			D103,203	(B)	1S1555
Q103,203		(B) 2SC634A	D104,204	(B)	1T22A
Q104,204		(B) 2SC632A	D105,205	(B)	1S1555
Q105,205			D106,206	(B)	1T22A
Q106,206	(B)	2SC634A	D107,207		
Q107,207			D108,208	(B)	1S1555
Q108~110			D501	(C)	SLP24B (LED)
Q208~210			D502	(B)	1S1555
Q111,211	(B)	2SC632A	D503	(B)	RD4A
Q112,212			D504,505	(B)	1S1555
Q113,213	(C)	2SA678	D506~509	(B)	10E2
Q114,214			⇒ D510	(B)	EQB01-08
Q115~118	(B)	2SC634A	D601	(B)	1S1555
Q215~218			D602	(B)	1T22A
Q119,219	(B)	2SC1474	COILS		
Q120,220	(B)	2SC634A	L101,201	1-407-879-00	(B) 33 mH, microinductor
Q301,401	(B)	2SC632A	L102,202	1-407-240-00	(B) 22 mH, variable inductor
Q302,402			L103,203	1-407-204-XX	(B) 6.8 mH, microinductor
Q303,403	(B)	2SC634A	L104,204	1-407-201-XX	(B) 3.9 mH, microinductor
Q501~503			L105,205		
Q504	(C)	2SA678	L106,206	1-407-211-XX	(B) 27 mH, microinductor
Q505	(E)	2SK23A-524	TRANSFORMERS		
Q506	(B)	2SC1474	T101,201	1-427-284-00	(B) Headphone
⇒ Q507	(C)	2SA684	T501	1-442-694-00	(L) Power (US, Canadian model)
Q508~510	(B)	2SC634A		1-442-787-00	(L) Power (AEP, E model)
Q511	(C)	2SA678	CAPACITORS		
Q512	(C)	2SC1173	All capacitors are in μF and electrolytic unless otherwise noted.		
Q513,514	(B)	2SC634A	50WV or less are not indicated except for electrolytics. $\text{pF} = \mu\mu\text{F}$		
Q515	(B)	2SC1474	C101	1-121-916-11	(B) 10 16V
⇒ Q601	(C)	2SC1760	C102	1-121-409-11	(A) 47 16V
IC601	(F)	CX065	C103	1-102-074-11	(A) 0.001 ceramic
Diodes			C104	1-121-912-11	(A) 1 50V
⇒ D101,201	(B)	V09C			

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

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

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C105	1-121-414-11	(A) 100	10V
C106	1-121-409-11	(A) 47	16V
C107	1-121-911-11	(B) 0.47	50V
C108	1-121-651-11	(A) 10	16V
C109	1-102-074-11	(A) 0.001	ceramic
C110	1-131-199-11	(B) 10	16V tantalum
C111	1-101-888-11	(A) 68p	ceramic
C112	1-129-794-11	(B) 0.0033	100V polyethylene
C113	1-108-569-12	(B) 0.0039	mylar
C114	1-108-563-12	(B) 0.0022	
C115	1-102-820-11	(A) 330p	ceramic
C116	1-121-402-11	(A) 33	10V
C117	1-102-074-11	(A) 0.001	ceramic
C118	1-121-415-11	(A) 100	16V
C119	1-121-352-11	(A) 47	10V
C120	1-101-888-11	(A) 68p	ceramic
C121	1-121-651-11	(A) 10	16V
C122	1-121-450-11	(I) 2.2	50V
C123	1-108-581-12	(B) 0.012	mylar
C124	1-108-579-12	(A) 0.01	mylar
C125	1-108-597-12	(B) 0.056	mylar
C126	1-108-573-12	(A) 0.0056	mylar
C127	1-107-103-11	(A) 6p	silvered mica
C128	1-121-651-11	(A) 10	16V
C129	1-108-567-12	(A) 0.0033	mylar
C130	1-131-205-11	(B) 2.2	25V tantalum
C131	1-108-234-12	(A) 0.0047	mylar
C132	1-131-197-11	(B) 3.3	16V tantalum
C133	1-102-074-11	(A) 0.001	ceramic
C134	1-121-651-11	(A) 10	16V
C135	1-121-395-11	(A) 4.7	25V
C136	1-121-413-11	(A) 100	6.3V
C137	1-108-232-12	(A) 0.0033	mylar
C138	1-108-251-12	(A) 0.1	mylar
C139	1-121-392-11	(A) 3.3	25V
C140	1-121-651-11	(A) 10	16V
C141	1-121-404-11	(A) 3.3	25V
C142	1-121-651-11	(A) 10	16V
C143	1-121-911-11	(B) 0.47	50V
C144	1-108-587-12	(B) 0.022	mylar
C145	1-108-589-12	(B) 0.027	mylar

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C146	1-108-601-12	(B) 0.082	mylar
C147	1-108-605-12	(B) 0.12	mylar
C148	1-108-589-12	(B) 0.027	mylar
C149	1-121-726-11	(A) 0.47	50V
C150	1-121-392-11	(A) 3.3	25V
C151	1-121-391-11	(A) 1	50V
C152	1-108-358-12	(A) 0.018	mylar
C153	1-121-469-11	(A) 10	10V
C154	1-102-074-11	(A) 0.001	ceramic
C155	1-131-205-11	(B) 2.2	25V tantalum
C156	1-107-037-11	(A) 82p	500V silvered mica
C157	1-141-069-XX	(B) Trimmer	
C158	1-102-111-11	(A) 270p	ceramic
C201	1-121-916-11	(B) 10	16V
C202	1-121-409-11	(A) 47	16V
C203	1-102-074-11	(A) 0.001	ceramic
C204	1-121-912-11	(A) 1	50V
C205	1-121-414-11	(A) 100	10V
C206	1-121-409-11	(A) 47	16V
C207	1-121-911-11	(B) 0.47	50V
C208	1-121-651-11	(A) 10	16V
C209	1-102-074-11	(A) 0.001	ceramic
C210	1-131-199-11	(B) 10	16V tantalum
C211	1-101-888-11	(A) 68p	ceramic
C212	1-129-794-11	(B) 0.0033	100V polyethylene
C213	1-108-569-12	(B) 0.0039	mylar
C214	1-108-563-12	(B) 0.0022	mylar
C215	1-102-820-11	(A) 330p	ceramic
C216	1-121-402-11	(A) 33	10V
C217	1-102-074-11	(A) 0.001	ceramic
C218	1-121-415-11	(A) 100	16V
C219	1-121-352-11	(I) 47	10V
C220	1-101-888-11	(A) 68p	ceramic
C221	1-121-651-11	(A) 10	16V
C222	1-121-450-11	(I) 2.2	50V
C223	1-108-581-12	(B) 0.012	mylar
C224	1-108-579-12	(A) 0.01	mylar
C225	1-108-597-12	(B) 0.056	mylar
C226	1-108-573-12	(A) 0.0056	mylar
C227	1-107-103-11	(A) 6p	silvered mica

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

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C228	1-121-651-11	(A) 10 16V	C311	1-131-199-11	(B) 10 16V tantalum
C229	1-108-567-12	(A) 0.0033 mylar	C312	1-108-232-12	(A) 0.0033 mylar
C230	1-131-205-11	(B) 2.2 25V tantalum	C313	1-121-726-11	(A) 0.47 50V
C231	1-108-234-12	(A) 0.0047 mylar	C401	1-102-112-11	(A) 330p ceramic
C232	1-131-197-11	(B) 3.3 16V tantalum	C402	1-102-110-11	(A) 220p ceramic
C233	1-102-074-11	(A) 0.001 ceramic	C403	1-102-108-11	(A) 150p ceramic
C234	1-121-651-11	(A) 10 16V	C404	1-121-409-11	(A) 47 16V
C235	1-121-395-11	(A) 4.7 25V	C405	1-121-414-11	(A) 100 10V
C236	1-121-413-11	(A) 100 6.3V	C406	1-102-074-11	(A) 0.001 ceramic
C237	1-108-232-12	(A) 0.0033 mylar	C407	1-121-414-11	(A) 100 10V
C238	1-108-251-12	(B) 0.1 mylar	C408	1-108-357-12	(A) 0.012 mylar
C239	1-121-392-11	(A) 3.3 25V	C409	1-121-402-11	(A) 33 10V
C240	1-121-651-11	(A) 10 16V	C410	1-108-597-12	(B) 0.056 mylar
C241	1-121-404-11	(A) 33 25V	C411	1-131-199-11	(B) 10 16V tantalum
C242	1-121-651-11	(A) 10 16V	C412	1-108-232-12	(A) 0.0033 mylar
C243	1-121-911-11	(B) 0.47 50V	C413	1-121-726-11	(A) 0.47 50V
C244	1-108-587-12	(B) 0.022 mylar	C501	1-102-074-11	(A) 0.001 ceramic
C245	1-108-589-12	(B) 0.027 mylar	C502~504	1-121-409-11	(A) 47 16V
C246	1-108-601-12	(B) 0.082 mylar	C505	1-121-420-11	(A) 220 10V
C247	1-108-605-12	(B) 0.12 mylar	C506	1-102-074-11	(A) 0.001 ceramic
C248	1-108-589-12	(B) 0.027 mylar	C507	1-121-450-11	(I) 2.2 50V
C249	1-121-726-11	(A) 0.47 50V	C508	1-121-352-11	(I) 47 10V
C250	1-121-392-11	(A) 3.3 25V	C509	1-121-450-11	(I) 2.2 50V
C251	1-121-391-11	(A) 1 50V	C510	1-121-414-11	(A) 100 10V
C252	1-108-358-12	(A) 0.018 mylar	C511	1-121-402-11	(A) 33 10V
C253	1-121-469-11	(A) 10 10V	C512	1-121-414-11	(A) 100 10V
C254	1-102-074-11	(A) 0.001 ceramic	C513	1-107-081-11	(A) 68p silvered mica
C255	1-131-205-11	(B) 2.2 25V tantalum	C514	1-121-651-11	(A) 10 16V
C256	1-107-037-11	(A) 82p 500V silvered mica	C515	1-107-104-11	(A) 7p silvered mica
C257	1-141-069-XX	(B) Trimmer	C516	1-121-425-11	(B) 470 10V
C258	1-102-111-11	(A) 270p ceramic	C517	1-121-974-11	(B) 33 10V
C301	1-102-112-11	(A) 330p ceramic	C518,519	1-121-469-11	(A) 10 10V
C302	1-102-110-11	(A) 220p ceramic	C520	1-102-074-11	(A) 0.001 ceramic
C303	1-102-108-11	(A) 150p ceramic	C521	1-108-239-12	(A) 0.01 mylar
C304	1-121-409-11	(A) 47 16V	C522	1-121-660-11	(B) 2200 16V
C305	1-121-414-11	(A) 100 10V	C523	1-121-805-11	(B) 330 10V
C306	1-102-074-11	(A) 0.001 ceramic	C524	1-121-425-11	(B) 470 10V
C307	1-121-414-11	(A) 100 10V	C525	1-121-479-11	(A) 22 16V
C308	1-108-357-12	(A) 0.012 mylar	C526	1-121-805-11	(B) 330 10V
C309	1-121-402-11	(A) 33 10V	C527	1-121-245-11	(B) 1000 16V
C310	1-108-597-12	(B) 0.056 mylar			

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

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

Ref. No.	Part No.	Description
C528	1-121-415-11 (A) 100	16V
C529	1-121-391-11 (A) 1	50V
C530	1-102-074-11 (A) 0.001	ceramic
C531	1-108-239-12 (A) 0.01	mylar
C601	1-121-651-11 (A) 10	16V
C602	1-108-550-12 (B) 0.082	mylar
C603	1-108-583-12 (B) 0.015	mylar
C604	1-121-961-11 (A) 4.7	25V
C605	1-121-415-11 (A) 100	16V
C606,607	1-121-990-11 (A) 22	16V
C608	1-121-352-11 (I) 47	10V

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted.
Check schematic diagram for values.

R501,502	1-202-549-11 (A) 100	1/2W composition
R503	1-202-543-11 (A) 56	1/2W composition
R510	1-202-533-11 (A) 22	1/2W composition
R529	1-202-558-11 (A) 240	1/2W composition
R530	1-202-555-11 (A) 180	1/2W composition
R531	1-202-535-11 (A) 27	1/2W composition
R533	1-202-525-11 (A) 10	1/2W composition
R534	1-202-513-11 (A) 3.3	1/2W composition
R537	1-202-525-11 (A) 10	1/2W composition

RV101,201	1-224-644-XX (B) 4.7 kΩ, adjustable	
RV102,202		
RV103,203	1-224-600-00 (E) 20 kΩ, variable; REC LEVEL	
RV104,204	1-224-798-00 (D) 20 kΩ, variable; MONITOR LEVEL	

RV314,414	1-224-645-XX (B) 10 kΩ, adjustable
-----------	------------------------------------

RV501	1-224-647-XX (B) 47 kΩ, adjustable
-------	------------------------------------

RV601	1-224-646-XX (B) 22 kΩ, adjustable
-------	------------------------------------

SWITCHES

S1	1-514-976-XX (E) Slide, record/playback
----	---

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
S3,4	1-516-686-00	Ⓒ Lever Slide, timing; record/playback
S5	1-516-963-00	Ⓒ Lever Slide, INPUT SELECT
S6,7	1-516-961-00	Ⓑ Lever Slide, LIMITER, DOLBY NR
S8	1-516-963-00	Ⓒ Lever Slide, EQ
S9	1-516-995-00	Ⓒ Lever Slide, BIAS
S10,11	1-516-720-00	Ⓔ Pushbutton, MEMORY LIGHT, BATT CHECK
S12,13	1-516-853-XX	Ⓒ Leaf, motor; muting

JACKS & CONNECTORS

J101,201	1-507-455-00 (C) Jack, MIC
J102	1-507-453-00 (C) Jack, HEADPHONES

J501	1-508-624-00 (C) Connector, ac input; AC IN 120V (US, Canadian model)
	1-509-783-00 (C) Connector, ac input; AC IN (AEP, E model)

J502	1-507-447-XX (B) Jack, DC IN 6V
------	---------------------------------

CNJ101,201	1-536-501-00 (D) Jack Ass'y, LINE IN, LINE OUT, REC/PB (AEP, E model)	
CNJ102,202		
CNJ103		
CNJ101,201	1-507-531-00 (C) Jack Ass'y, LINE IN, LINE OUT (US, Canadian model)	
CNJ102,202		

MISCELLANEOUS

EH	8-825-634-00 (C) Head, erase; EF135-36C
----	---

F1	1-532-079-00 (A) Fuse, F160mA (AEP, E model)
F2	1-532-215-00 (B) Thermal Fuse, T800mA (AEP, E model)

M	8-834-009-50 (K) Motor, DNF-1300A
ME101	1-520-260-11 (K) Meter, VU; LEFT
ME201	1-520-260-21 (K) Meter, VU; RIGHT

RPH101,201	8-825-584-00 (L) Head, record/playback; PF145-3602A1
------------	--

SP	1-502-619-00 (H) Speaker, 3.2Ω
	1-464-059-00 (G) Unit, bias osc
	1-464-063-00 (K) Unit, dc-dc converter
	1-552-026-00 (E) Voltage Selector (AEP, E model)

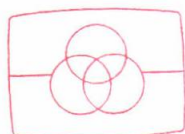
Note: The components identified by shading are critical for safety. Replace only with part number specified.

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

ACCESSORIES & PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
X-3701-018-3	(A) Tips Ass'y, head cleaning (Canadian, AEP, E model)
1-528-022-00	(C) Battery, size "D" (US model)
1-534-049-31	(D) Cord, connection; RK-74
1-534-840-XX	(E) Cord, power; DK-38 (AEP, E model)
1-534-867-00	(C) Cord, power; DK-35 (US model)
1-551-002-XX	(D) Cord, power (Canadian model)
3-533-950-00	(I) Strap, shoulder
3-533-962-00	(C) Bag, plastic; set
3-549-154-00	(B) Case, accessory
3-549-155-00	(B) Cushion, upper
3-549-156-00	(B) Cushion, lower
3-549-162-00	(E) Carton (Canadian, AEP, E model)
3-549-163-00	(E) Carton (US model)
3-701-684-11	(A) Card, voltage (AEP, E model)
3-770-080-11	(E) Manual, instruction (Canadian, AEP, E model)
3-770-080-21	(E) Manual, instruction (US model)
3-793-044-21	(A) Carton, important (US model)
3-793-749-11	(B) Card, DOLBY cassette (AEP, E model)
3-793-828-11	(A) Card, caution; cassette

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



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— 30 —

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✎: corrected portion

[illegible]

77K0643-1
Printed in Japan

TC-158SD

STEREO CASSETTE-CORDER

US Model
Canadian Model
AEP Model
E Model

CORRECTION

Correct the service manual as shown below.

Free service manuals

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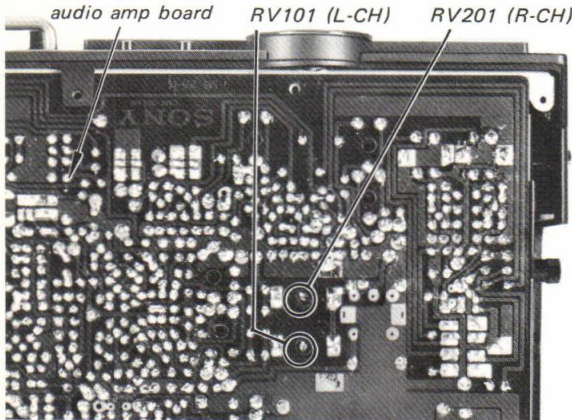
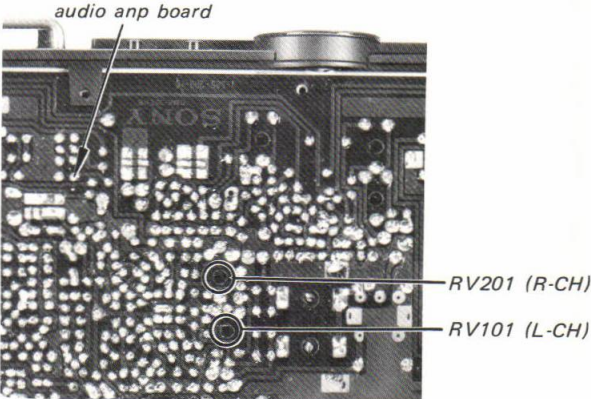
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Page 13 Record Level Adjustment

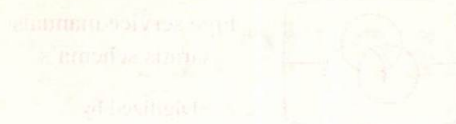
Incorrect	Correct
Adjustment Location:  The diagram shows the audio amp board with labels for 'audio amp board', 'RV101 (L-CH)', and 'RV201 (R-CH)'. The adjustment points are indicated by circles on the board.	Adjustment Location:  The diagram shows the audio amp board with labels for 'audio amp board', 'RV201 (R-CH)', and 'RV101 (L-CH)'. The adjustment points are indicated by circles on the board.

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