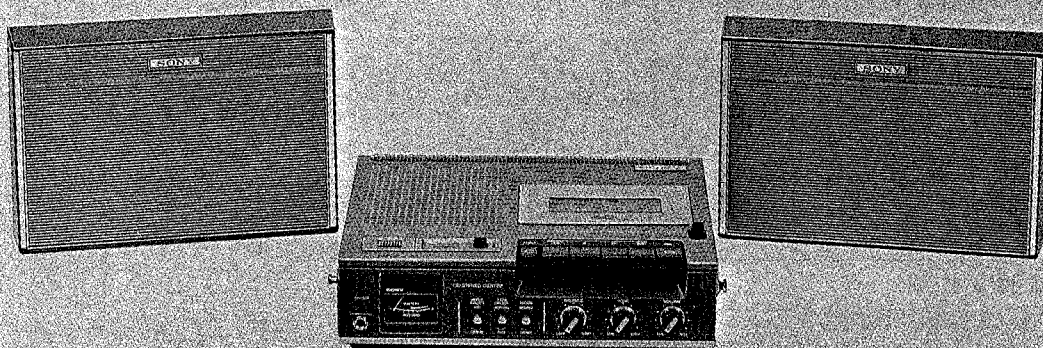


# TC-520CS

504

US Model  
Canadian Model  
UK Model  
AEP Model  
E Model



## STEREO CASSETTE-CORDER

### SPECIFICATIONS

<b>Power Requirements:</b>	120V ac, 60 Hz (US, Canadian model) 240V ac, 50 Hz (UK model) 110, 127, 220 or 240V ac, 50 Hz (AEP model) 100–110, 115–127, 200–220 or 230–250V ac, 50/60 Hz (E model) 6V dc Battery size-D (IEC designation R20), 4 pcs Rechargeable battery BP-8H (optional) Car battery cord DCC-129 (optional) for 12V car battery	<b>Total Harmonic Distortion:</b>	2.5%
<b>Power Consumption:</b>	7W ac (US, Canadian model) 10W ac (E model) 14W ac (UK, AEP model)	<b>Battery Life:</b>	In continuous recording with built-in microphone: Approx. 6 hours with Sony long-life battery size-D
<b>Power Output:</b>	(US model) 2W (1W x 2) max. with external speakers 1W max. with the built-in speaker (UK model) 2.2W (1.1W x 2) max. with external speakers 1.1W max. with the built-in speaker (Canadian, AEP, E model) 3W (1.5W x 2) max. with external speakers 1.5W max. with the built-in speaker	<b>Inputs:</b>	MIC (two minijacks) Sensitivity: 0.2 mV (-72 dB) Impedance: for low-impedance microphone LINE IN (two minijacks) Sensitivity: 0.06V (-22 dB) Impedance: 1,000 k $\Omega$
<b>Speakers:</b>	Built-in speaker 10 cm (4 inches) dia. External speakers 10 cm (4 inches) dia.	<b>Outputs:</b>	SPEAKER (two minijacks) Load impedance: for 8 $\Omega$ -impedance speakers PHONES (stereo binaural jack) Load impedance: for 8 $\Omega$ -impedance headphones
<b>Track:</b>	4-track 2-channel stereo or monaural	<b>Other Jack:</b>	REMOTE REC/PB (UK, AEP, E model)
<b>Fast Winding Time:</b>	Approx. 1 minutes 30 seconds with Sony cassette C-60	<b>Dimensions:</b>	280 (w) x 90 (h) x 245 (d) mm 11 $\frac{1}{8}$ (w) x 3 $\frac{5}{8}$ (h) x 9 $\frac{3}{4}$ (d) inches incl. projecting parts and controls
<b>Frequency Response:</b>	(US, Canadian, AEP, E model) 50–10,000 Hz with standard cassette 50–13,000 Hz with chromium dioxide cassette (UK model) 60–10,000 Hz with standard cassette 60–13,000 Hz with chromium dioxide cassette	<b>Weight:</b>	3.4 kg, 7 lb 8 oz with batteries
<b>Wow and Flutter:</b>	0.26% (RMS) weighted		
<b>S/N Ratio:</b>	45 dB		

#### 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.

# SONY<sup>®</sup>

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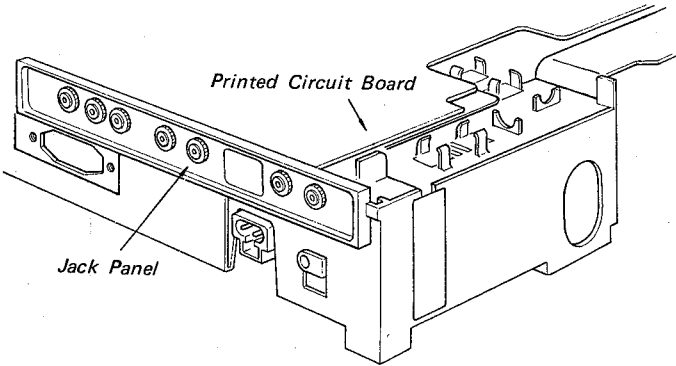

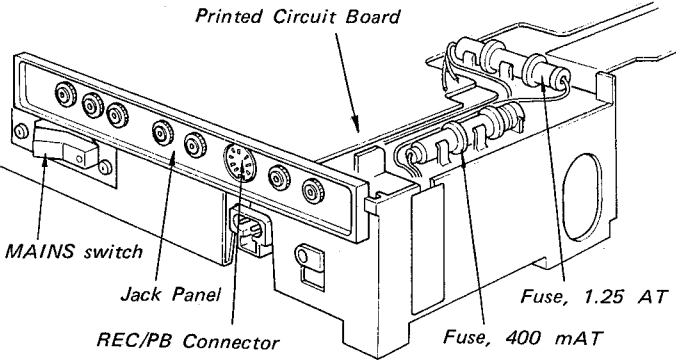


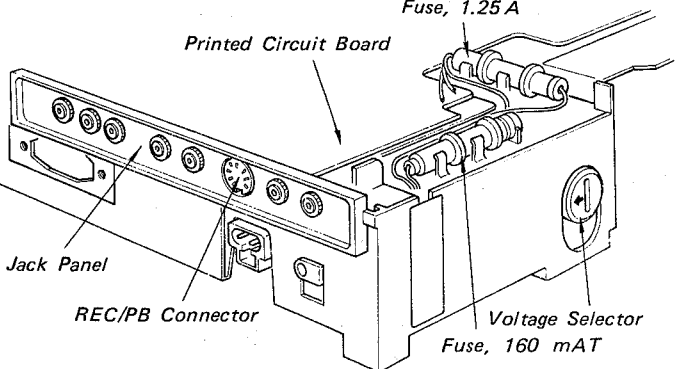
# SERVICE MANUAL

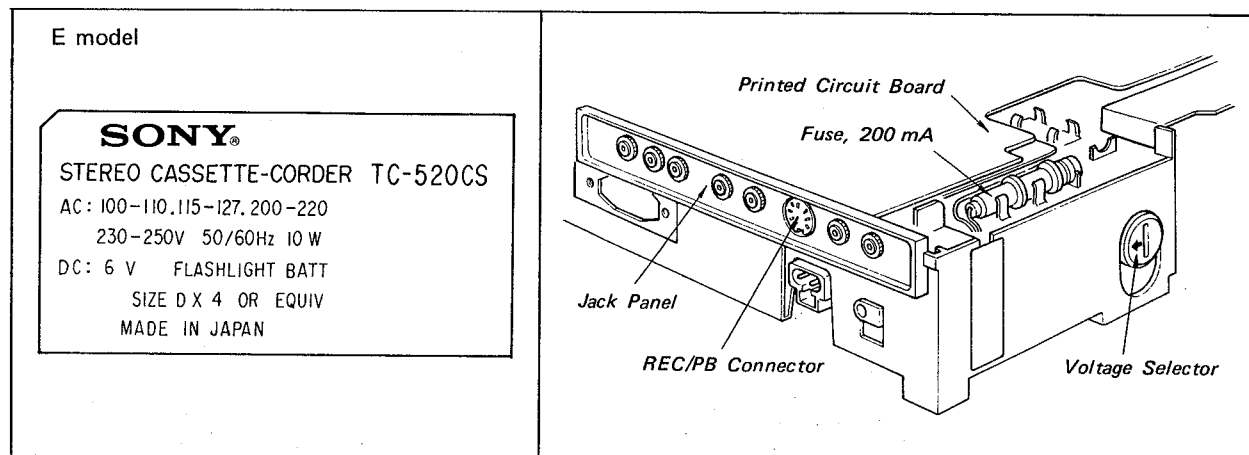
504

# C-520CS

## IDENTIFICATION OF SET

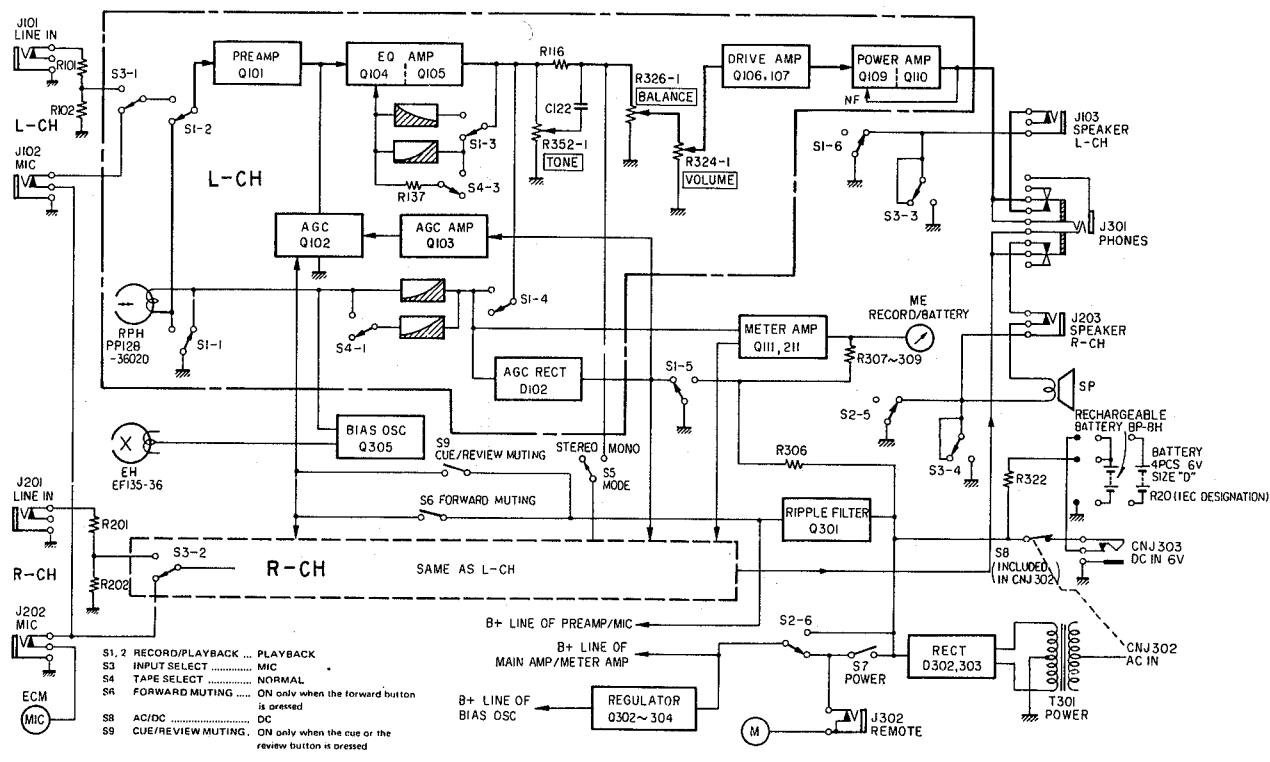
TC-520CS is classified by the specification label as shown below.

Specification Label	Jack Side View with lower case removed
<p>US model</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>SONY</b>            STEREO CASSETTE-CORDER TC-520CS            AC: 120V 60Hz 7 W            DC: 6 V FLASHLIGHT BATT            SIZE D X 4 OR EQUIV</p>  <p>MADE IN</p> </div> <p>Canadian model</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>SONY</b>            STEREO CASSETTE-CORDER TC-520CS            AC: 120V 60Hz 7 W            DC: 6 V FLASHLIGHT BATT            SIZE D X 4 OR EQUIV</p>  <p>MADE IN</p> </div>	 <p>Printed Circuit Board</p> <p>Jack Panel</p>
<p>UK model</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>SONY</b>            STEREO CASSETTE-CORDER TC-520CS            AC: 240V ~ 50Hz 14 W            DC: 6 V FLASHLIGHT BATT            SIZE D X 4 OR EQUIV</p>  <p>MADE IN</p> </div>	 <p>Printed Circuit Board</p> <p>MAINS switch</p> <p>Jack Panel</p> <p>REC/PB Connector</p> <p>Fuse, 1.25 AT</p> <p>Fuse, 400 mA</p>
<p>AEP model</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>SONY</b>            STEREO CASSETTE-CORDER TC-520CS            AC: 110, 127, 220, 240V ~            50 Hz 14 W            DC: 6 V FLASHLIGHT BATT            SIZE D X 4 OR EQUIV</p>   <p>MADE IN</p> </div>	 <p>Printed Circuit Board</p> <p>Jack Panel</p> <p>REC/PB Connector</p> <p>Fuse, 1.25 A</p> <p>Voltage Selector</p> <p>Fuse, 160 mA</p>



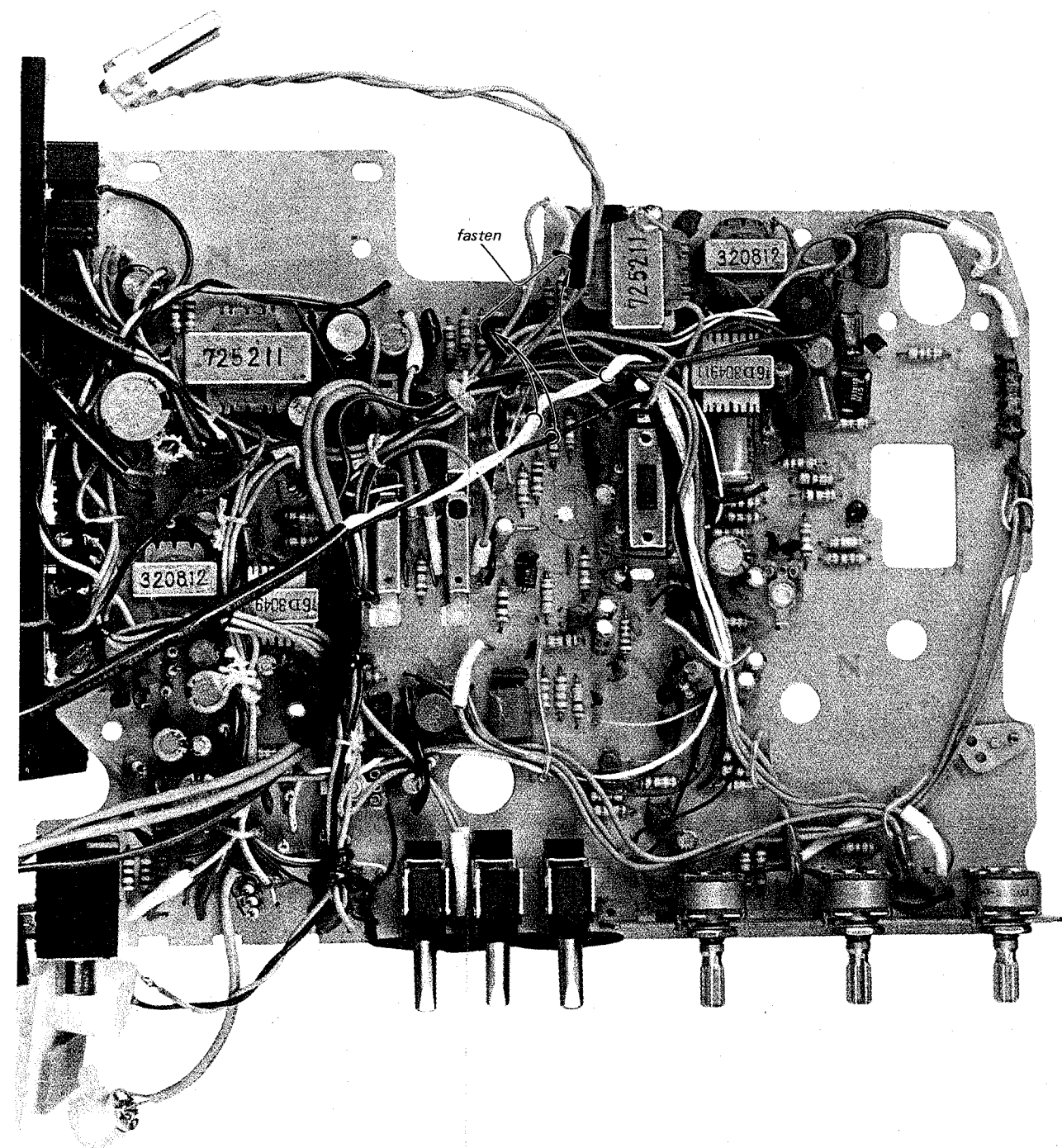
SECTION 1  
OUTLINE

1-1. BLOCK DIAGRAM



1-2. INTERNAL VIEW

Top view with circuit board removed.

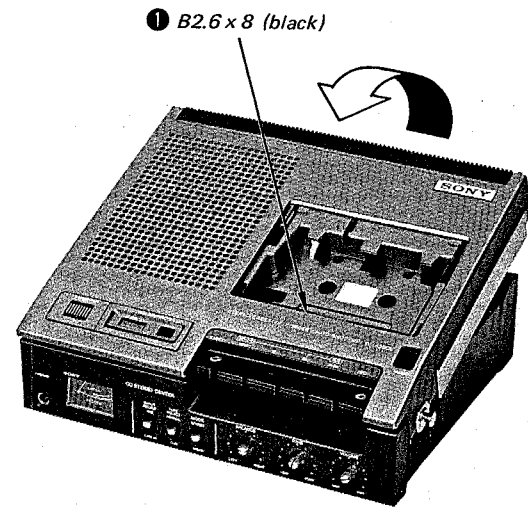


SECTION 2  
DISASSEMBLY AND REPLACEMENT

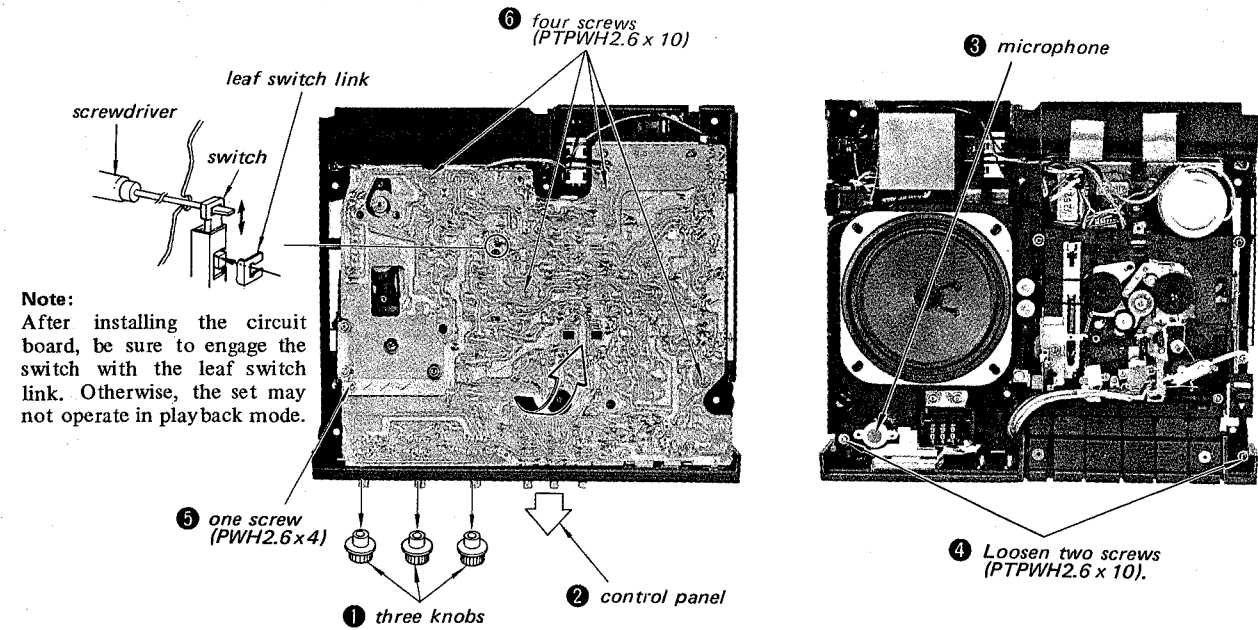
LOWER CASE REMOVAL

Remove six screws (B3 x 14, self-tapping) on the lower case.

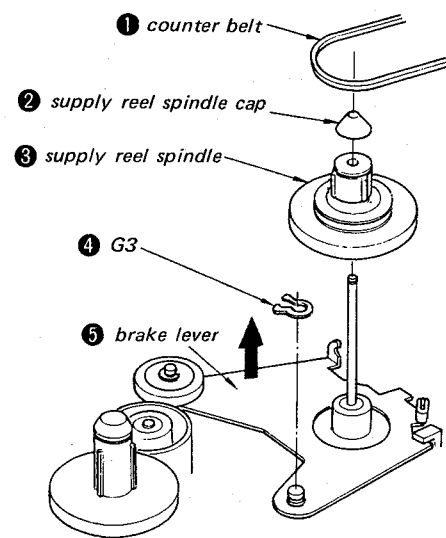
UPPER CASE REMOVAL



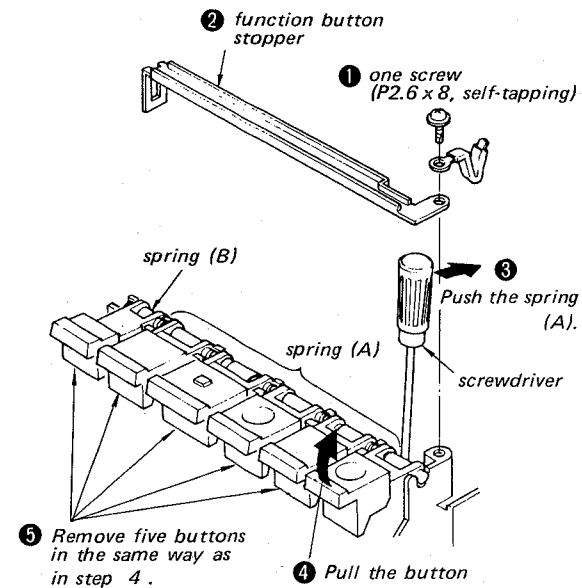
CIRCUIT BOARD REMOVAL



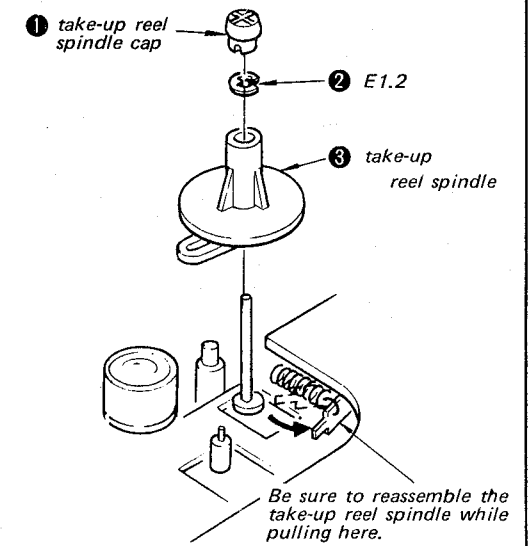
BRAKE LEVER REMOVAL



FUNCTION BUTTON REMOVAL

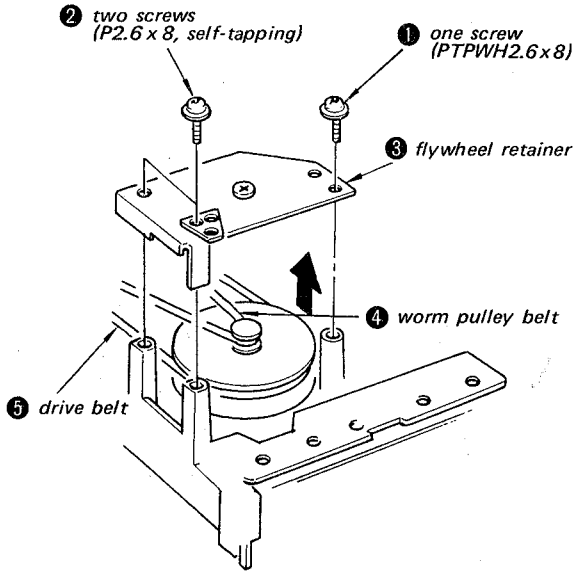


TAKE-UP REEL SPINDLE REMOVAL

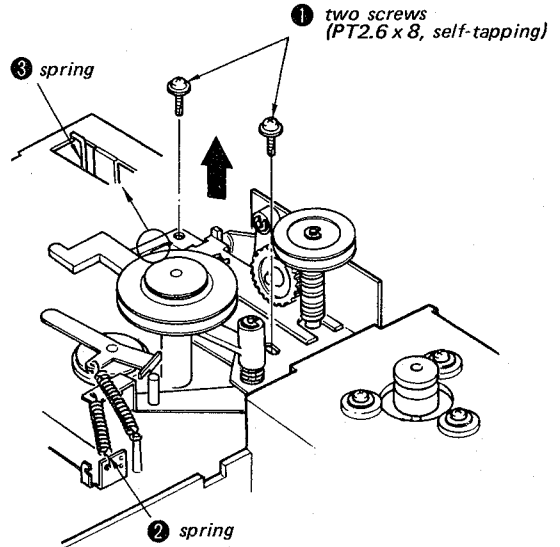


**Note:** FLYWHEEL REMOVAL can be performed after removing the complete circuit board or the main chassis.

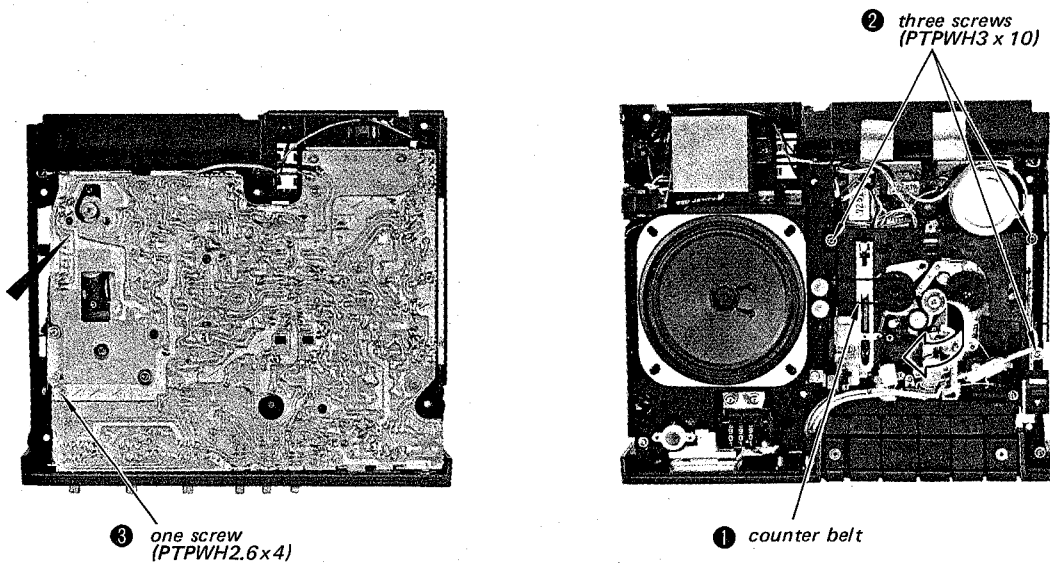
**FLYWHEEL REMOVAL**



**SHUT-OFF BLOCK REMOVAL**



**MAIN CHASSIS 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
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.

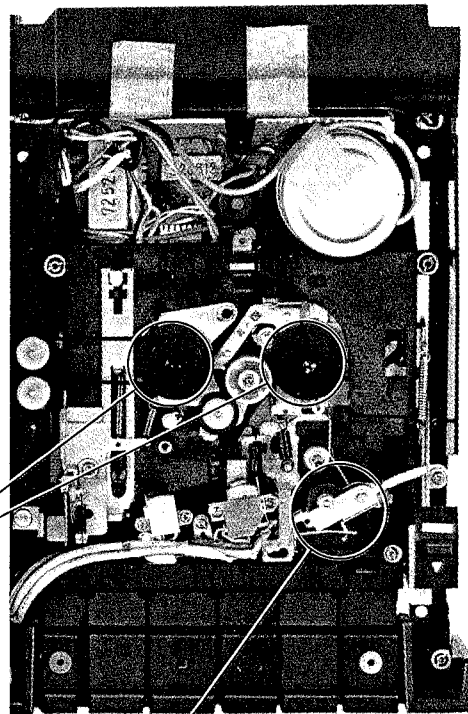
### 3-1. MECHANICAL ADJUSTMENTS AND MEASUREMENTS

#### Forward Torque Measurement

Torque meter	Meter reading
SONY CQ-101A, 102A, 103A	20~50 g.cm (0.28~0.69 oz.inch)

#### Fast Forward and Rewind Torque Measurement

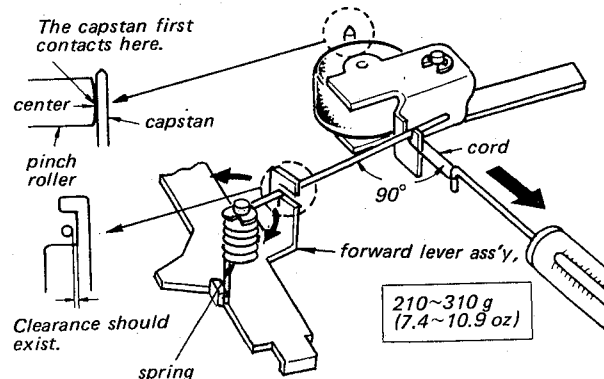
Torque meter	Meter reading
SONY CQ-201A	52~97 g.cm (0.72~1.35 oz.inch)



#### Pinch Roller Pressure Adjustment

— Playback Mode —

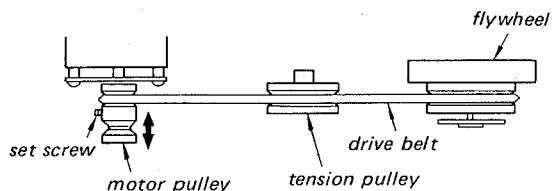
1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
3. If necessary, bend or replace the spring.



**Motor Pulley Height Adjustment**

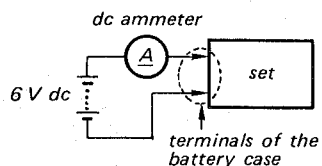
**Note:** Perform this adjustment after replacing the motor or the motor pulley.

1. Place the set horizontal.
2. Loosen the set screw and adjust the position of the motor pulley so that the drive belt becomes straight.
3. Tighten the set screw.

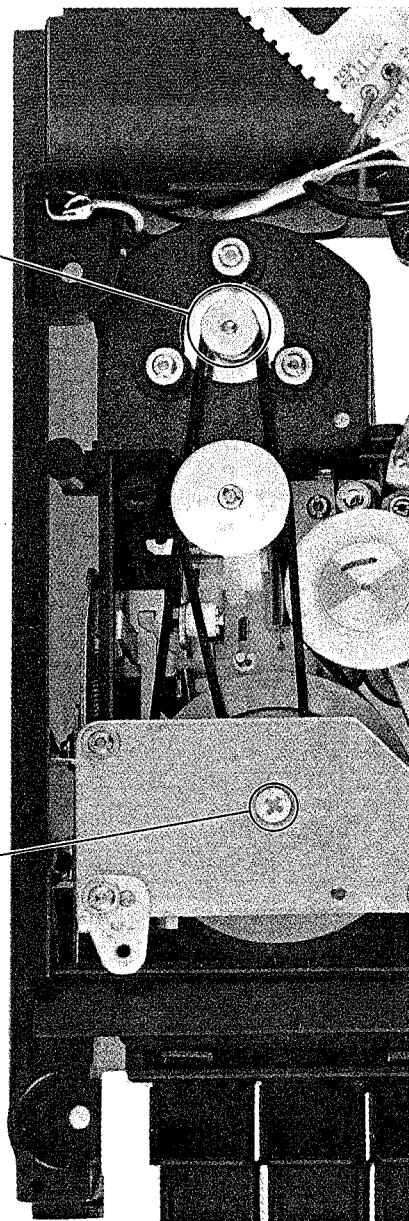


**Flywheel Thrust Play Adjustment**

— Playback Mode —



1. Horizontally place the set the reel-spindle-side down.
2. Loosen the adjustment screw.
3. Gradually turn the adjustment screw clockwise and stop it when the motor current suddenly increases.
4. Turn the adjustment screw ¼ turn counterclockwise and secure it with a locking compound.



**3-2. ELECTRICAL ADJUSTMENTS**

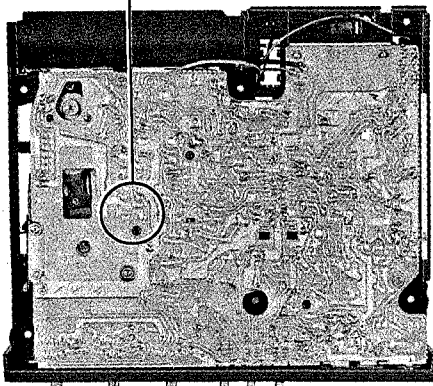
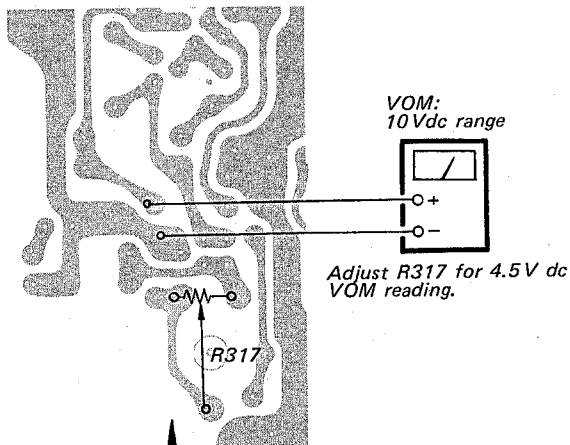
**Note:** The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

**B+ Voltage Adjustment**

**Settings:**

Power source ..... 6V dc  
 Mode ..... record without signal

**Procedure and Adjustment Location:**



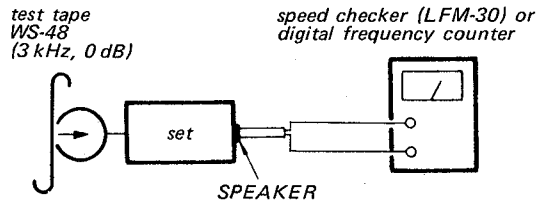
**Tape Speed Adjustment**

**Setting:**

Power source ..... 6V dc

**Procedure:**

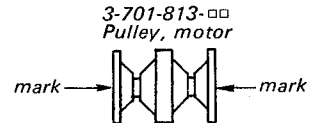
1. Mode ..... playback



**Specifications**

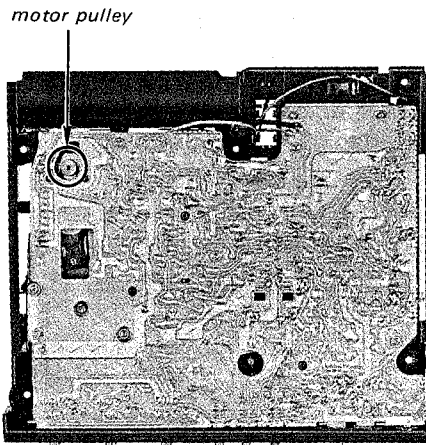
- 1)
 

Speed checker	Digital frequency counter
± 1%	2970 Hz~3030 Hz
- 2) Frequency difference between beginning and end of tape should be within 1% (30 Hz).
2. If necessary, replace motor pulley.



Part No.	Mark	Tape Speed
3-701-813-	06	L
		M
	07	N
		P
	08	Q
		down ↑ up

**Adjustment Location:**





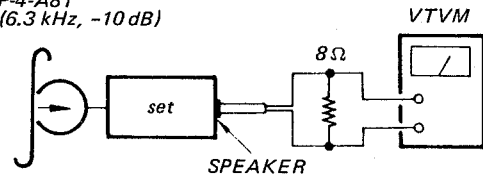
**Record/playback Head Azimuth Adjustment**

**Settings:**

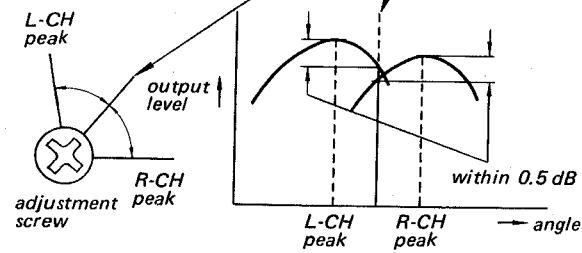
TONE switch . . . . . HIGH position  
 Mode . . . . . playback

**Procedure:**

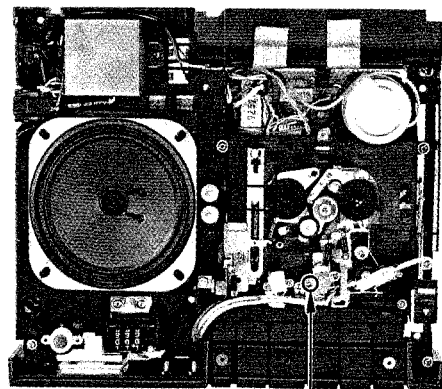
test tape  
 P-4-A81  
 (6.3 kHz, -10 dB)



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



**Adjustment Location:**



screw

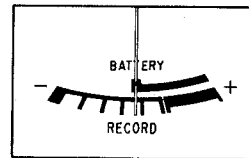
**Record/battery Meter Calibration**

**Settings:**

Mode . . . . . playback without cassette  
 Power source . . . . . 4.4 V dc

**Procedure:**

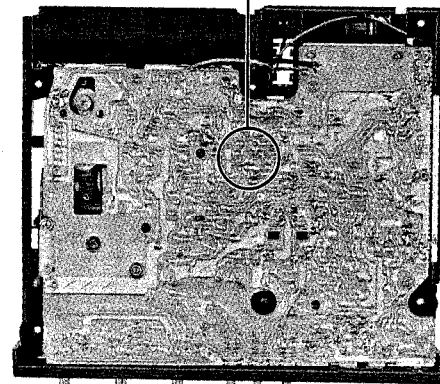
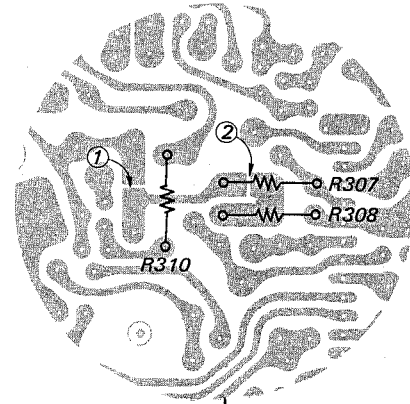
1. Push the forward button without a cassette.
2. The pointer indication should be as shown below.



3. If necessary, solder ① or ②.

Soldering Portion	Pointer
①	+ mark
nothing	↕
②	- mark

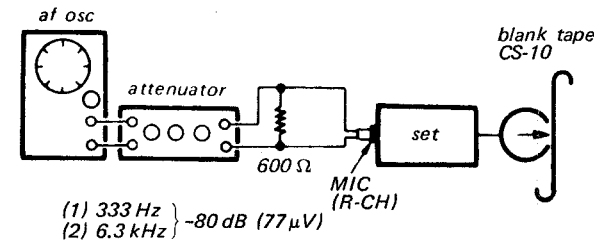
**Adjustment Location:**



**Record Bias Adjustment**

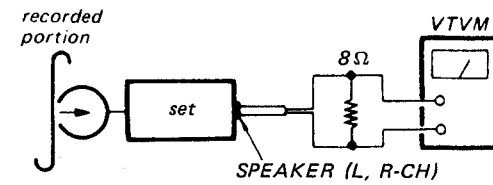
**Procedure:**

1. Mode . . . . . record



(1) 333 Hz } -80 dB (77 μV)  
 (2) 6.3 kHz }

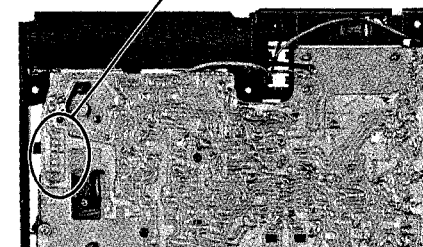
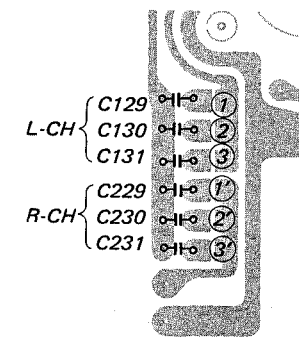
2. Mode . . . . . playback



Select a soldering portion for each channel to obtain the smallest difference between the 333 Hz and 6 kHz signal output levels.

Soldering portion		6.3 kHz signal output level
L-CH	R-CH	
①	①	up
②	②	↕
③	③	down

**Adjustment Location:**



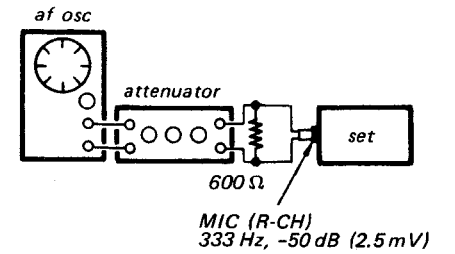
**AGC Stereo Balance Adjustment**

**Setting:**

MODE switch . . . . . STEREO

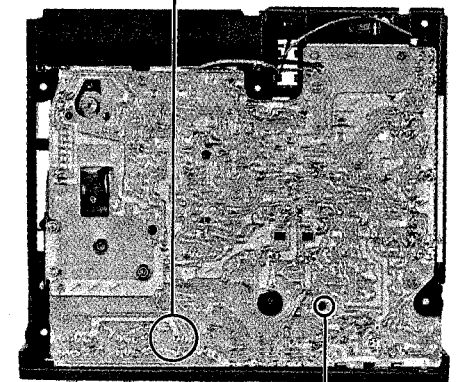
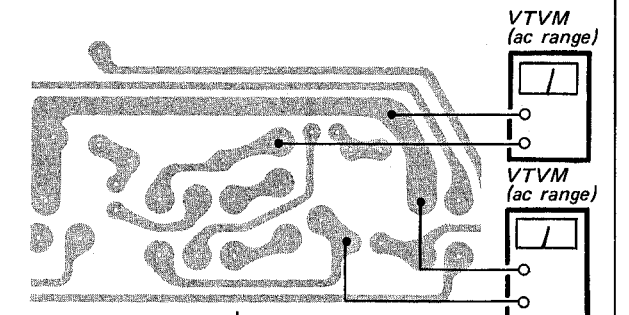
**Procedure:**

Mode . . . . . record



Adjust R208 for the same VTVM readings.

**Adjustment Location:**



R208

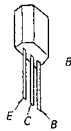
SECTION 4  
DIAGRAMS

4-1. MOUNTING DIAGRAM

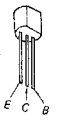
- Conductor Side -

US model : Up to serial No. 12,000  
Canadian model : Up to serial No. 10,500

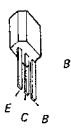
Q101, 201 : 2SC631A  
Q104, 204 : 2SC631A  
Q102, 202 : 2SC633A  
Q103, 203 : 2SC633A  
Q105~108 : 2SC633A  
Q205~208 : 2SC633A  
Q111, 211 : 2SC633A  
Q301, 303~305 : 2SC633A



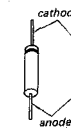
Q109, 209 : 2SC1474  
Q110, 210 : 2SC1474



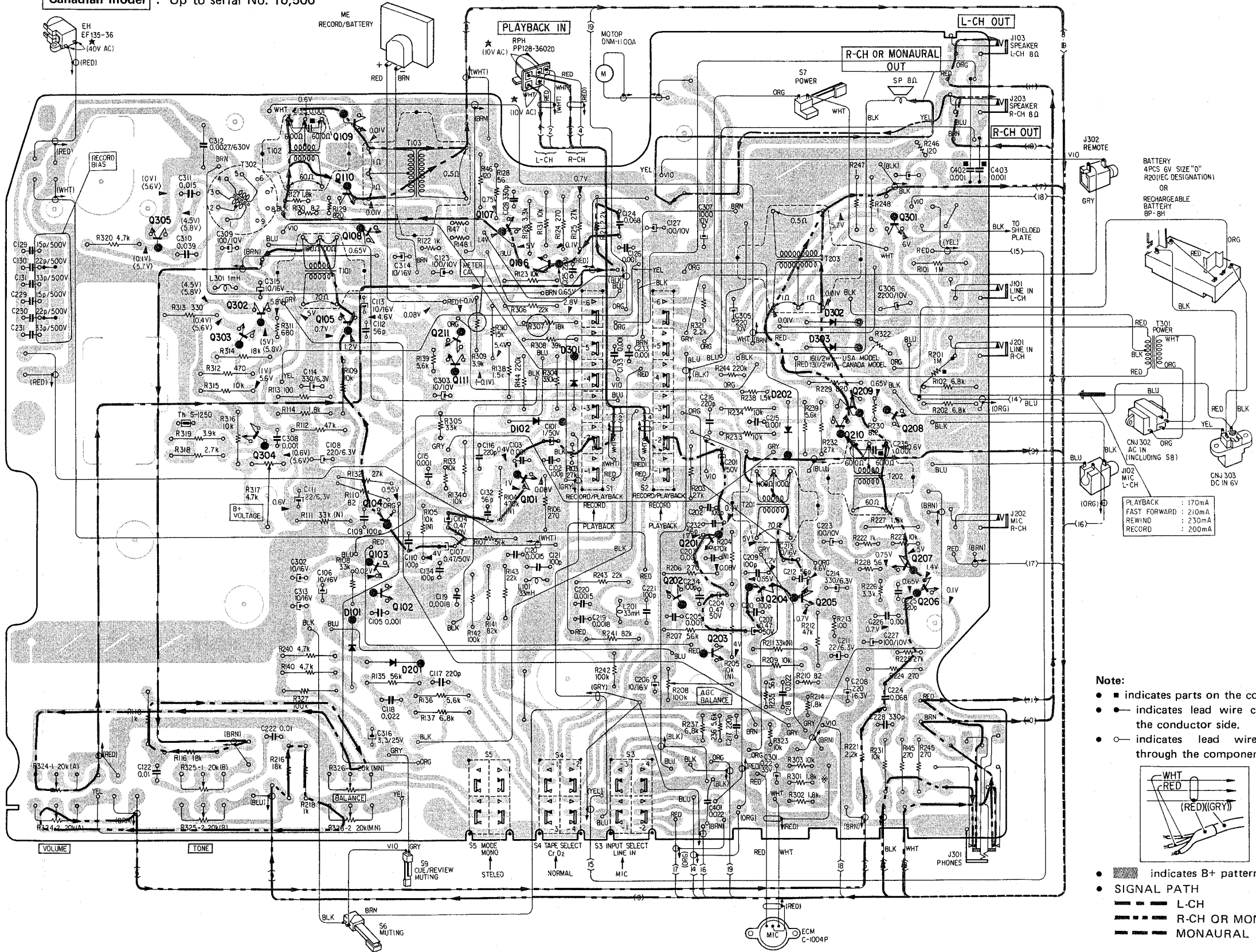
Q302: 2SA677



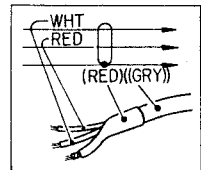
D101, 102 : 1T40  
D201, 202 : 1T40  
D301: 1T22  
D302, 303: 10E1



D	Q
	109
	110
108 301	107
305	106
	302
302	105
303	211
301	111
102 202	209
304	208
	210
	101
	104
	201
103 207	206
102 204	205
101 201	203



- Note:
- indicates parts on the conductor side.
  - indicates lead wire connection on the conductor side.
  - indicates lead wire connection through the component side.



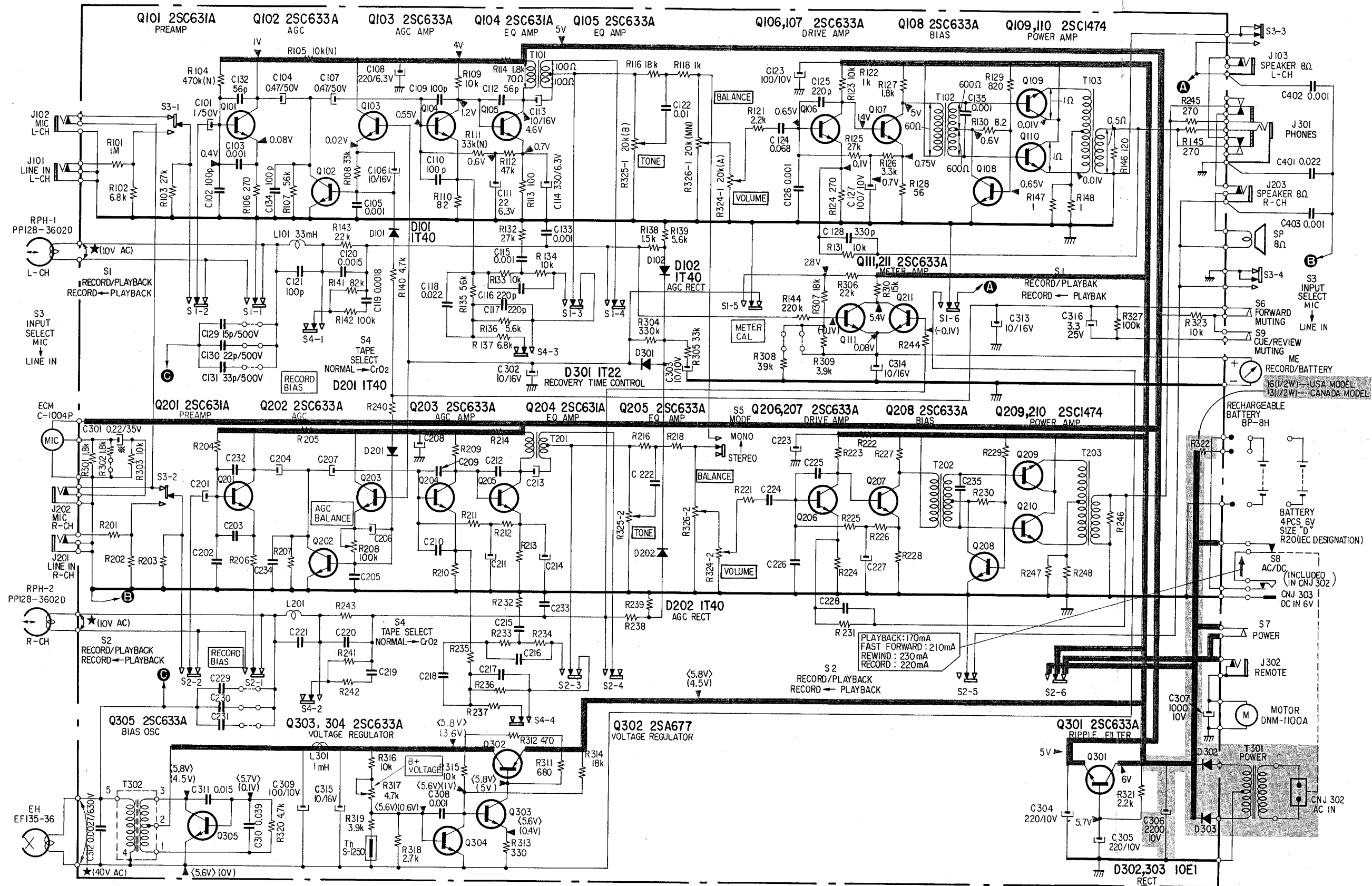
- indicates B+ pattern.
- SIGNAL PATH
  - L-CH
  - R-CH OR MONAURAL
  - MONAURAL

# TC-520CS TC-520CS

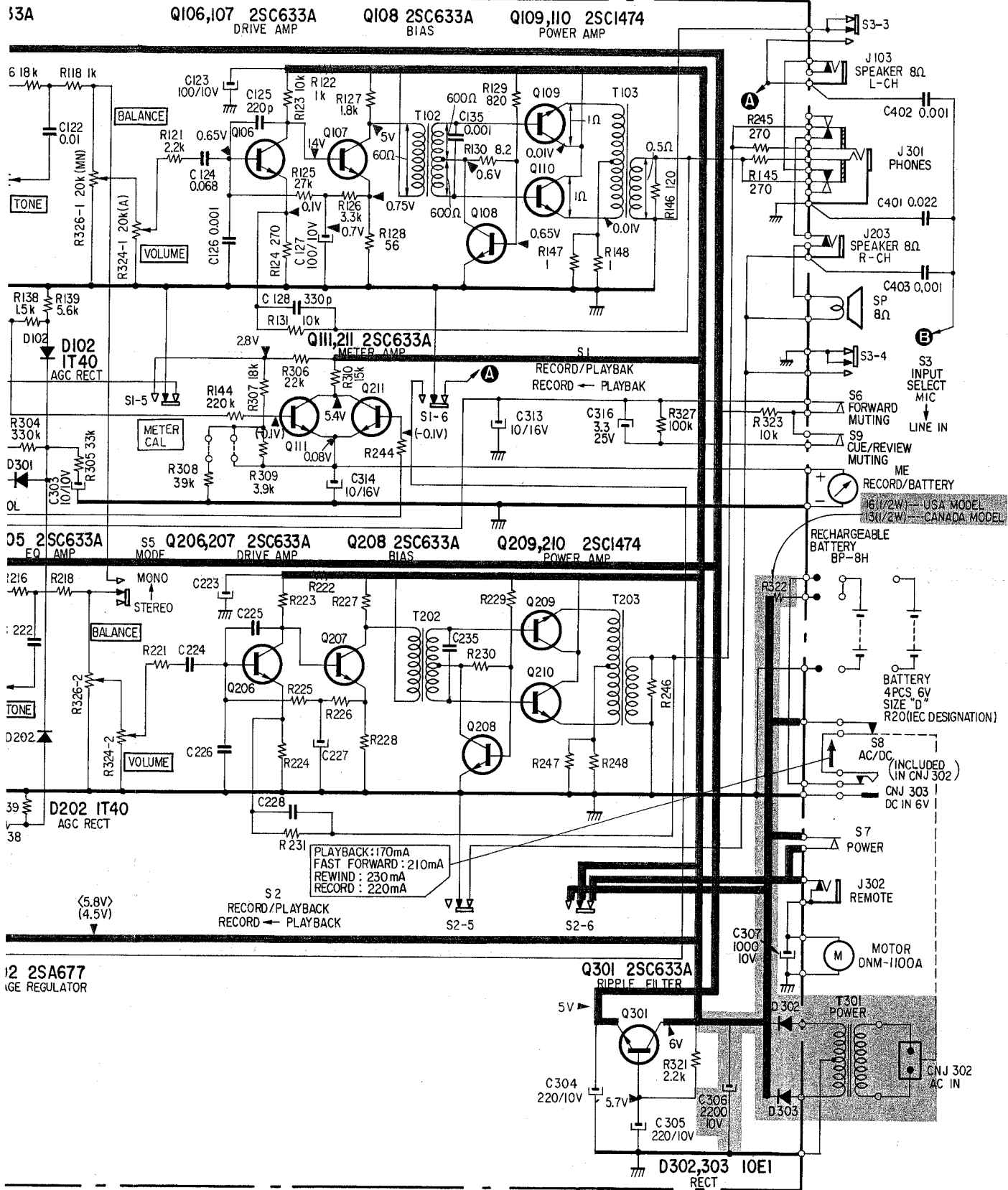
## 4-2. SCHEMATIC DIAGRAM

**US model** : Up to serial No. 12,000  
**Canadian model** : Up to serial No. 10,500

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



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



**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. 50 or less working voltages are omitted except for electrolytic type.  $p = \mu\mu\text{F}$
- All resistors are in  $\Omega$ ,  $\frac{1}{4}\text{W}$ , unless otherwise noted.  $k = 1,000$   $M = 1,000k$
- $\text{---}$  indicates chassis ground.
- (N) indicates a low-noise resistor.
- $\text{---}$  indicates B+ circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20  $k\Omega/V$ ).  
( ) : in record mode    no mark: common  
< > : in playback mode  
\* : measured with VTVM
- Voltage variations may be noted due to normal production tolerances.
- Total current is measured with no cassette loaded.
- DC resistance value of transformer is measured on the mounted board. The average value is indicated.
- In using an electret condenser microphone with red mark on side of case, connect R302 shown with \* in parallel with R301.
- S6: ON only when the forward button is pressed.
- S9: ON only when the cue or the review button is pressed.
- Switch Mode:

Ref. No.	Switch	Position
S1	RECORD/PLAYBACK	PLAYBACK
S2	RECORD/PLAYBACK	PLAYBACK
S3	INPUT SELECT	MIC
S4	TAPE SELECT	NORMAL
S5	MODE	STEREO
S6	FORWARD MUTING	OFF
S7	POWER	OFF
S8	AC/DC (included in CNJ302)	DC
S9	CUE/REVIEW MUTING	OFF

E, AEP, UK model

US model : Serial No. 12,001 and later

Canadian model : Serial No. 10,501 and later

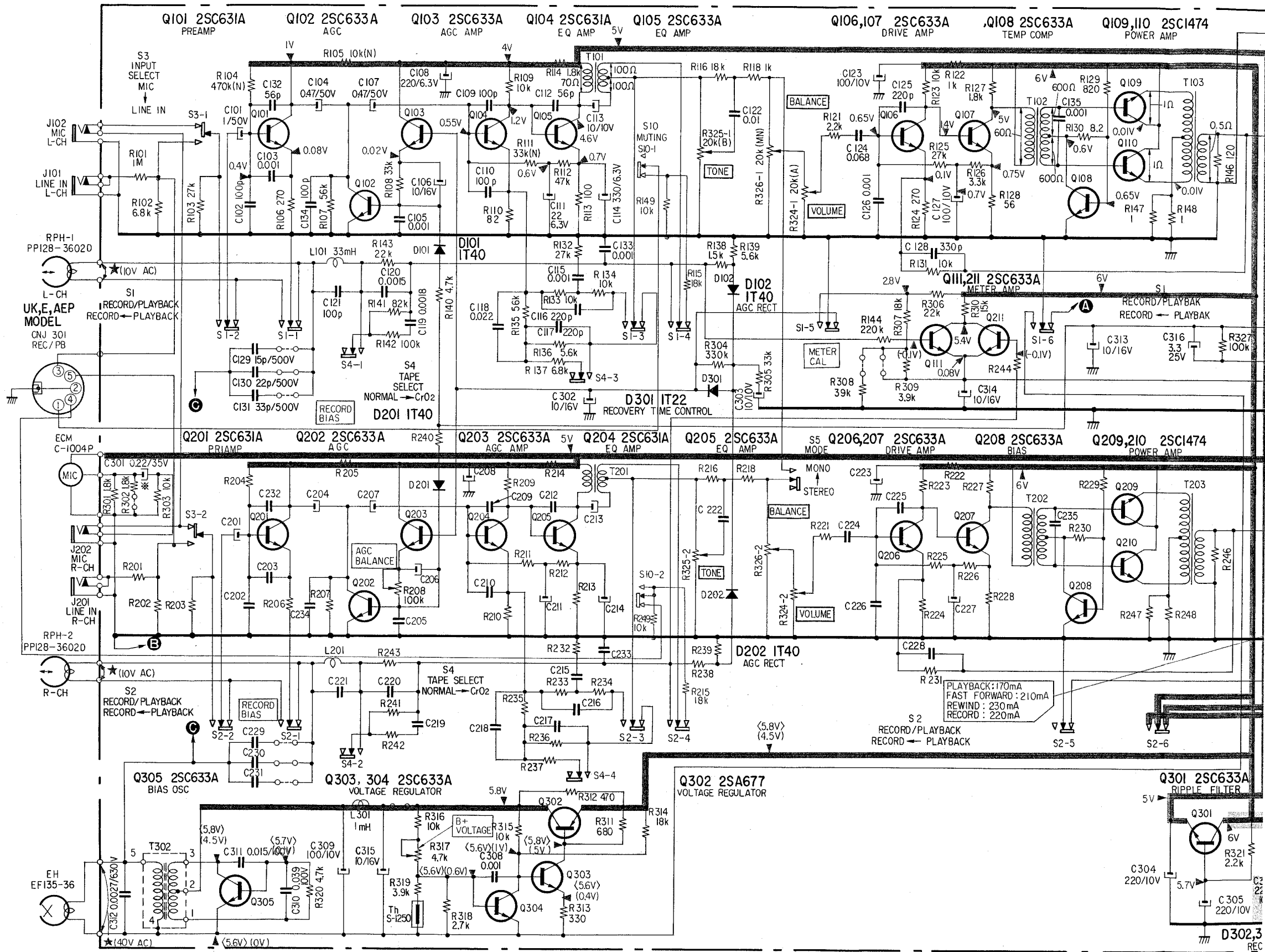
Note: The components identified by shading are critical for safety. Replace only with part number specified.

4-3. SCHEMATIC DIAGRAM

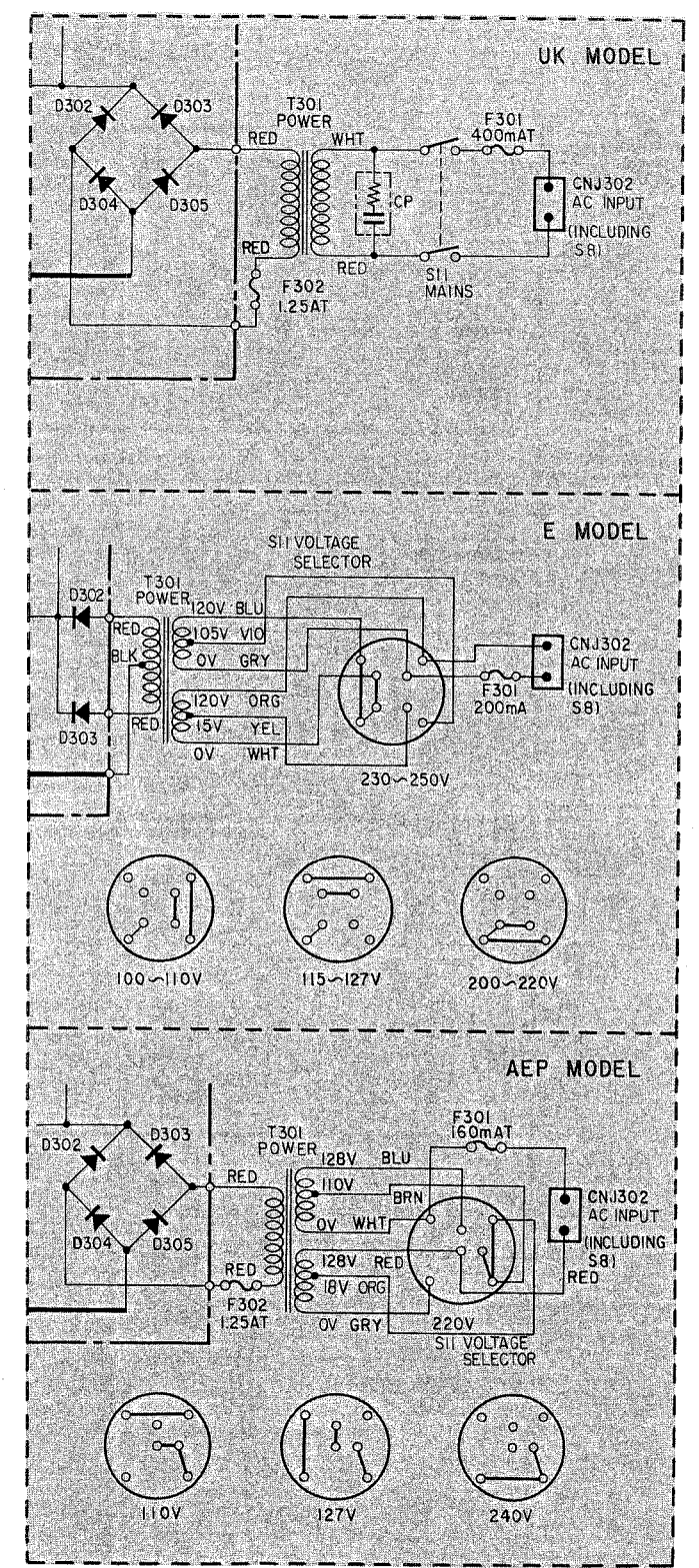
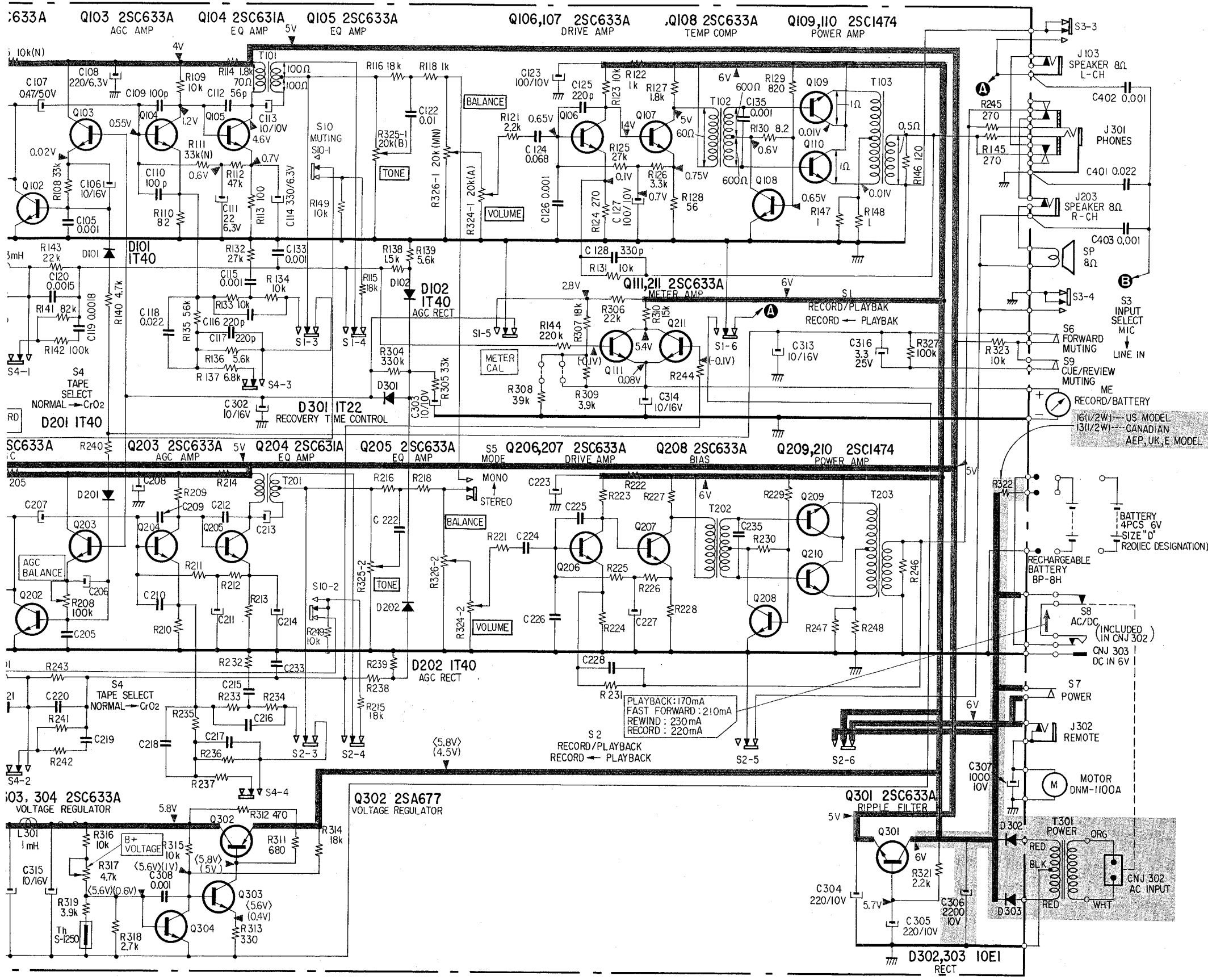
Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. 50 or less working voltages are omitted except for electrolytic type.  $\text{p} = \mu\mu\text{F}$
- All resistors are in  $\Omega$ ,  $\frac{1}{4}\text{W}$ , unless otherwise noted.  $\text{k} = 1,000$   $\text{M} = 1,000\text{k}$
- $\text{---}$  indicates chassis ground.
- (N) indicates a low-noise resistor.
- $\text{---}$  indicates B+ circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20  $\text{k}\Omega/\text{V}$ ).
- ( ) : in record mode no mark: common
- < > : in playback mode
- \* : measured with VTVM
- Voltage variations may be noted due to normal production tolerances.
- Total current is measured with no cassette loaded.
- DC resistance value of transformer is measured on the mounted board.
- The average value is indicated.
- In using an electret condenser microphone with red mark on side of case, connect R302 shown with \* in parallel with R301.
- S6: ON only when the forward button is pressed.
- S9: ON only when the cue or the review button is pressed.
- Switch Mode:

Ref. No.	Switch	Position
S1	RECORD/PLAYBACK	PLAYBACK
S2	RECORD/PLAYBACK	PLAYBACK
S3	INPUT SELECT	MIC
S4	TAPE SELECT	NORMAL
S5	MODE	STEREO
S6	FORWARD MUTING	OFF
S7	POWER	OFF
S8	AC/DC (included in CNJ302)	DC
S9	CUE/REVIEW MUTING	OFF
S10	MUTING (E, AEP, UK model)	ON
S11	MAINS	OFF (UK model) 220V (AEP model) 230~250V (E model)
S11	VOLTAGE SELECTOR	OFF (UK model) 220V (AEP model) 230~250V (E model)



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



4-4. MOUNTING DIAGRAM

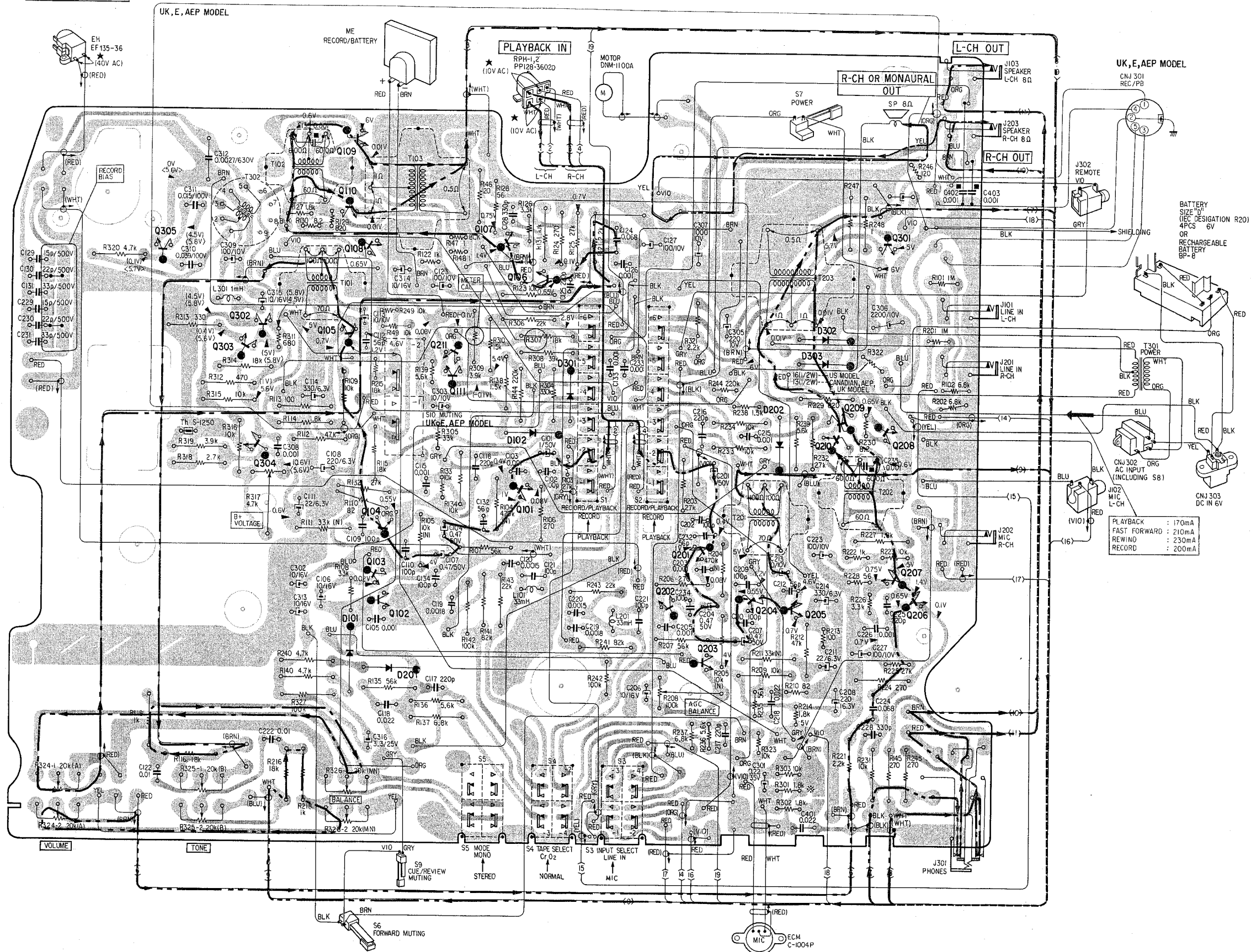
— Conductor Side —

E, AEP, UK model

US mode : Serial No. 12,001 and later

Canadian model : Serial No. 10,501 and later

D	Q
	109
	110
108 301	
107 305	
	106
302 302	105
303 303	211
	111
301	
	209
102 202	208
	210
	304
	101
	104
	201
103 207	
102 204	206
202 205	
101 201	203



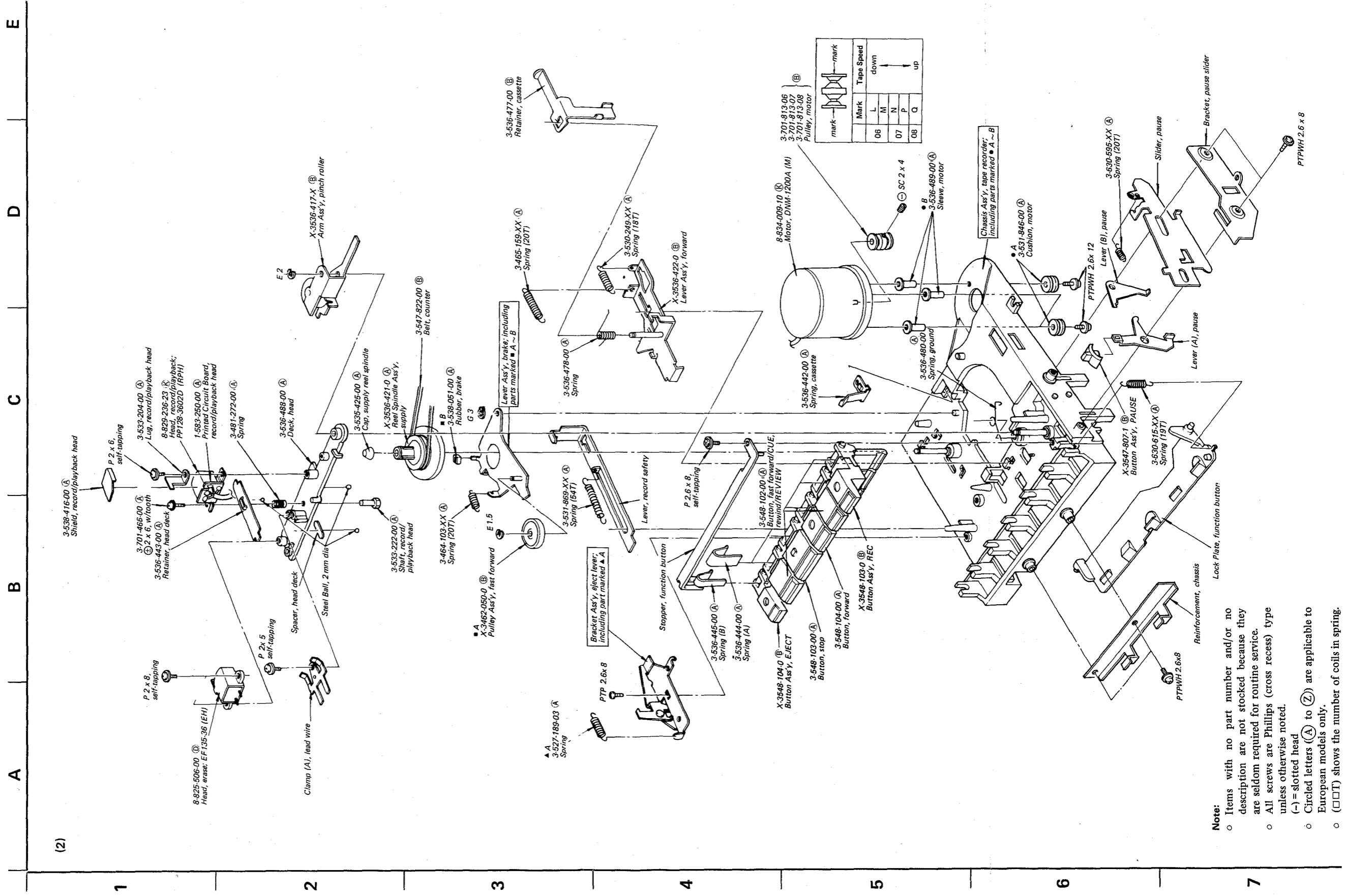








TC-520CS TC-520CS



(2)

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



**TC-520CS TC-520CS**

**SECTION 6  
ELECTRICAL PARTS LIST**

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

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

Ref. No.	Part No.	Description
<b>PRINTED CIRCUIT BOARD</b>		
	1-583-250-00	(A) Record/Playback Head
<b>SEMICONDUCTORS</b>		
<b>Transistors</b>		
⇒ Q101,201	8-726-368-10	(B) 2SC632A
⇒ Q102,202	8-726-388-00	(B) 2SC634A
⇒ Q103,203		
⇒ Q104,204	8-726-368-10	(B) 2SC632A
⇒ Q105~108	8-726-388-00	(B) 2SC634A
⇒ Q205~208		
Q109,209	8-726-335-10	(B) 2SC1474
Q110,210		
⇒ Q111,211	8-726-388-00	(B) 2SC634A
⇒ Q301	8-726-388-00	(B) 2SC634A
⇒ Q302	8-726-786-01	(B) 2SA678
⇒ Q303~305	8-726-388-00	(B) 2SC634A
<b>Diodes</b>		
⇒ D101,201	8-719-815-55	(B) 1S1555
⇒ D102,202		
⇒ D301	8-719-722-21	(A) 1T22A
⇒ D302,303	8-719-210-02	(B) 10D2
⇒ D304,305	8-719-210-02	(B) 10D2 (AEP, UK model)
<b>Thermistor</b>		
Th	1-800-198-XX	(A) S-1250
<b>COILS</b>		
L101,201	1-407-212-XX	(B) Microinductor, 33 mH
L301	1-407-195-XX	(B) Microinductor, 1 mH
<b>TRANSFORMERS</b>		
T101,201	1-423-049-XX	(B) Input
T102,202	1-423-204-XX	(C) Input

⇒: Due to replacement parts, the descriptions are different from the diagrams.

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

Ref. No.	Part No.	Description
T103,203	1-427-252-XX	(C) Output
T301	1-441-840-21	Power (US model)
	1-442-009-21	Power (Canadian model)
	1-442-742-00	Power (UK model)
	1-442-743-00	Power (AEP model)
	1-442-785-00	Power (E model)
T302	1-433-177-00	(C) Bias Osc
<b>CAPACITORS</b>		
All capacitors are in $\mu\text{F}$ and electrolytic unless otherwise noted. (p = $\mu\mu\text{F}$ ) 50WV or less are not indicated except for electrolytics.		
C101,201	1-121-391-11	(A) 1 50V ceramic
C102,202	1-102-975-11	(A) 100p ceramic
C103,203	1-101-455-11	(A) 0.001 ceramic
C104,204	1-121-726-11	(A) 0.47 50V ceramic
C105,205	1-101-455-11	(A) 0.001 ceramic
C106,206	1-121-651-11	(A) 10 16V
C107,207	1-121-726-11	(A) 0.47 50V
C108,208	1-121-419-11	(A) 220 6.3V
C109,209	1-102-975-11	(A) 100p ceramic
C110,210		
C111,211	1-131-190-11	22 6.3V tantalum
C112,212	1-101-881-11	(A) 10 ceramic
C113,213	1-212-651-11	(A) 10 16V
		(US model: Up to serial No. 12,000 Canadian model: Up to serial No. 10,500)
C113,213	1-131-193-11	(B) 10 10V tantalum
		(US model: serial No. 12,001 and later Canadian model: serial No. 10,501 and later)

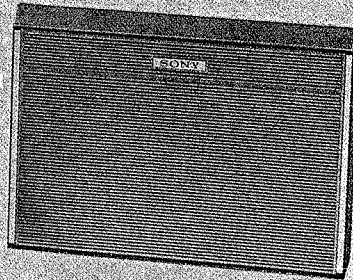
Ref. No.	Part No.	Description
C114,214	1-121-751-11	(A) 330 6.3V
C115,215	1-108-227-12	(A) 0.001 mylar
C116,216	1-102-110-11	(A) 220p ceramic
C117,217		
C118,218	1-108-242-12	(A) 0.022 mylar
C119,219	1-108-352-12	(A) 0.0018 mylar
C120,220	1-108-227-12	(A) 0.001 mylar
C121,221	1-107-169-11	(A) 100p 500V silvered mica
C122,222	1-108-239-12	(A) 0.01 mylar
C123,223	1-121-414-11	(A) 100 10V
C124,224	1-108-249-12	(A) 0.068 mylar
C125,225	1-102-112-11	(A) 330p ceramic
C126,226	1-101-455-11	(A) 0.001 ceramic
C127,227	1-121-414-11	(A) 100 10V
C128,228	1-102-112-11	(A) 330p ceramic
C129,229	1-107-206-12	(A) 15p 500V silvered mica
C130,230	1-107-210-12	(A) 22p 500V silvered mica
C131,231	1-107-159-12	(A) 33p 500V silvered mica
C132,232	1-101-885-11	(A) 56p ceramic
C133,233	1-101-455-11	(A) 0.001 ceramic
C134,234	1-102-975-11	(A) 100p ceramic
C135,235	1-102-074-11	(A) 0.001 ceramic
C301	1-131-211-11	(B) 0.22 10V tantalum
C302	1-121-968-11	(B) 20 16V
C303	1-131-193-11	(B) 10 10V tantalum
C304,305	1-121-420-11	(A) 220 10V
C306	1-121-659-11	(B) 2200 10V
C307	1-121-736-11	(B) 1000 10V
C308	1-101-455-11	(A) 0.001 ceramic
C309	1-121-414-11	(A) 100 10V
C310	1-108-384-12	(B) 0.039 100V mylar
C311	1-108-379-12	(A) 0.015 100V mylar
C312	1-129-707-11	(A) 0.0027 630V plastic
C313~315	1-121-651-11	(A) 10 16V
C316	1-121-392-11	(A) 3.3 25V
C401	1-108-242-12	(A) 0.022 mylar
C402,403	1-108-227-12	(A) 0.001 mylar

Ref. No.	Part No.	Description
<b>RESISTORS</b>		
All resistors are in ohms. Common 1/4W carbon resistors are omitted. Check schematic diagram for values. (k=1000)		
R208	1-224-648-XX	(B) 100 k, adjustable
R317	1-224-644-XX	(B) 4.7 k, adjustable
R322	1-244-828-11	(A) 13 1/2W carbon (Canadian, UK, AEP, E model)
	1-244-830-11	(A) 16 1/2W carbon (US model)
R324-1,2	1-224-814-00	(D) 20 k, variable; VOLUME
R325-1,2	1-224-815-00	(D) 20 k, variable; TONE
R316-1,2	1-224-816-00	(D) 20 k, variable; BALANCE
<b>SWITCHES</b>		
S1,2	1-514-978-XX	(C) Slide, record/playback
S3	1-516-969-00	(E) Slide, INPUT SELECT
S4,5	1-516-937-00	(D) Slide, TAPE SELECT, MODE
S6,7	1-516-853-XX	(C) Leaf, forward muting; power
S8		Included in CNJ302
S9	1-514-346-00	(B) Leaf, muting; CUE/REVIEW
S10	1-516-786-XX	(B) Slide, muting (UK, E, AEP model)
S11	1-516-174-00	(C) Voltage Selector (AEP model)
	1-516-267-00	Voltage Selector (E model)
	1-516-379-00	(E) Rocker, MAINS (UK model)
<b>JACKS</b>		
J101~103	1-507-251-XX	(B) SPEAKER, LINE IN, MIC
J201~203		
J301	1-507-389-XX	(B) PHONES (Headphones)
J302	1-507-357-00	(B) REMOTE
J303	1-509-467-00	(B) Connector, 5-p; REC/PB (UK, E, AEP model)

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



# SS-16A



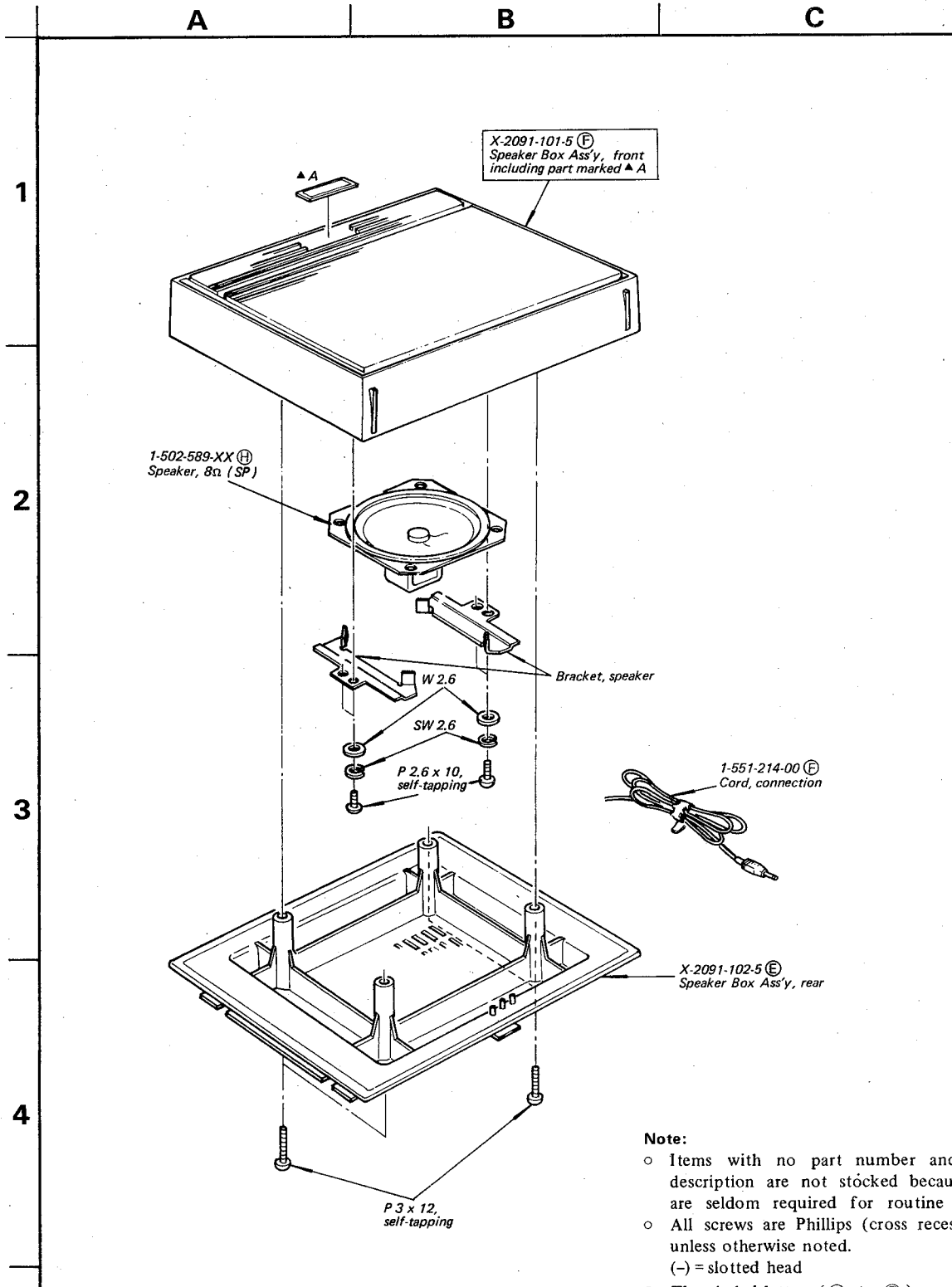
## SPEAKER SYSTEM

### SPECIFICATIONS

- Dimensions:** 253 (w) x 173 (h) x 73 (d) mm  
10 (w) x  $6\frac{13}{16}$  (h) x  $2\frac{7}{8}$  (d) inches
- Weight:** 0.8 kg, 1 lb 12 oz
- Speaker:** 8 $\Omega$ , 10 cm (4 inches) dia.

**SONY**<sup>®</sup>  
**SERVICE MANUAL**

EXPLODED VIEW



- 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
  - The circled letters (A) to (Z) are applicable for European model only.

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