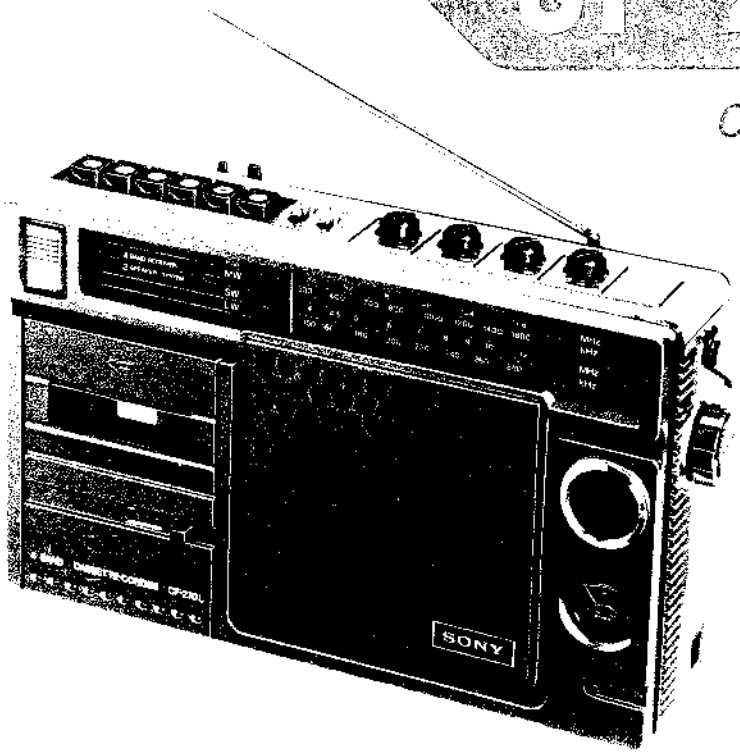
1195

CF-270L

Canadian Model
AEP Model
GEP Model



4-BAND CASSETTE-CORDER

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz (Canadian model)
220 V ac, 50/60 Hz (AEP, GEP model)
12 V dc, eight batteries size "D" (IEC Designation R20)

Power Consumption: 10 W ac

Power Output: 3 W (total harmonic distortion 10 %)

Speakers: Two-way speaker
16 cm (6 1/2 inches) woofer
5 cm (2 inches) tweeter

Dimensions: Approx. 415 (w) x 257 (h) x 109 (d) mm
16 5/16 (w) x 10 1/8 (h) x 4 5/16 (d) inches
(including projecting parts and controls, not including handle)

Weight: Approx. 5.2 kg, 11 lb 11 oz
(including batteries)

RADIO SECTION

Frequency Range: FM 87.5–108 MHz
SW 3.9–12 MHz (77–25 m)
LW 150–285 kHz (2,000–1,050 m)
MW 530–1,605 kHz

Antennas: FM, SW: Telescopic antenna
LW, MW: Built-in ferrite-rod

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.

TAPE RECORDER SECTION

Recording System: 2-track 1-channel monaural

Fast Winding Time: Approx. 2 min. with Sony cassette C-60

Frequency Response: 100 8,000 Hz

Inputs: MIC . . . . . 1 (m nijack
sensitivity 0.2 mV (–72 dB)
for low impedance microphone
LINE IN. . . . . 1 (minijack
sensitivity 0.1 V (–17 dB)
input impedance 100 k ohms

Output: EARPHONE . . . . . 1 (minijack)
8-ohm earphone or load impedance
10 k ohms or higher

Other Jack: REMOTE 1

0 dB = 0.775 V

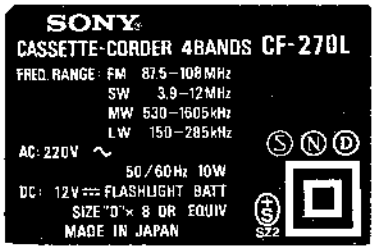
SONY®

SERVICE MANUAL

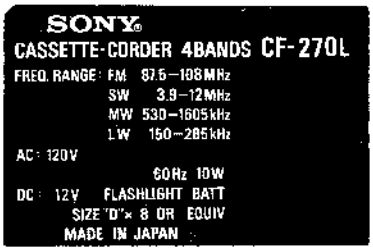
1195

MODEL IDENTIFICATION
(Specification Label)

AEP, GEP model



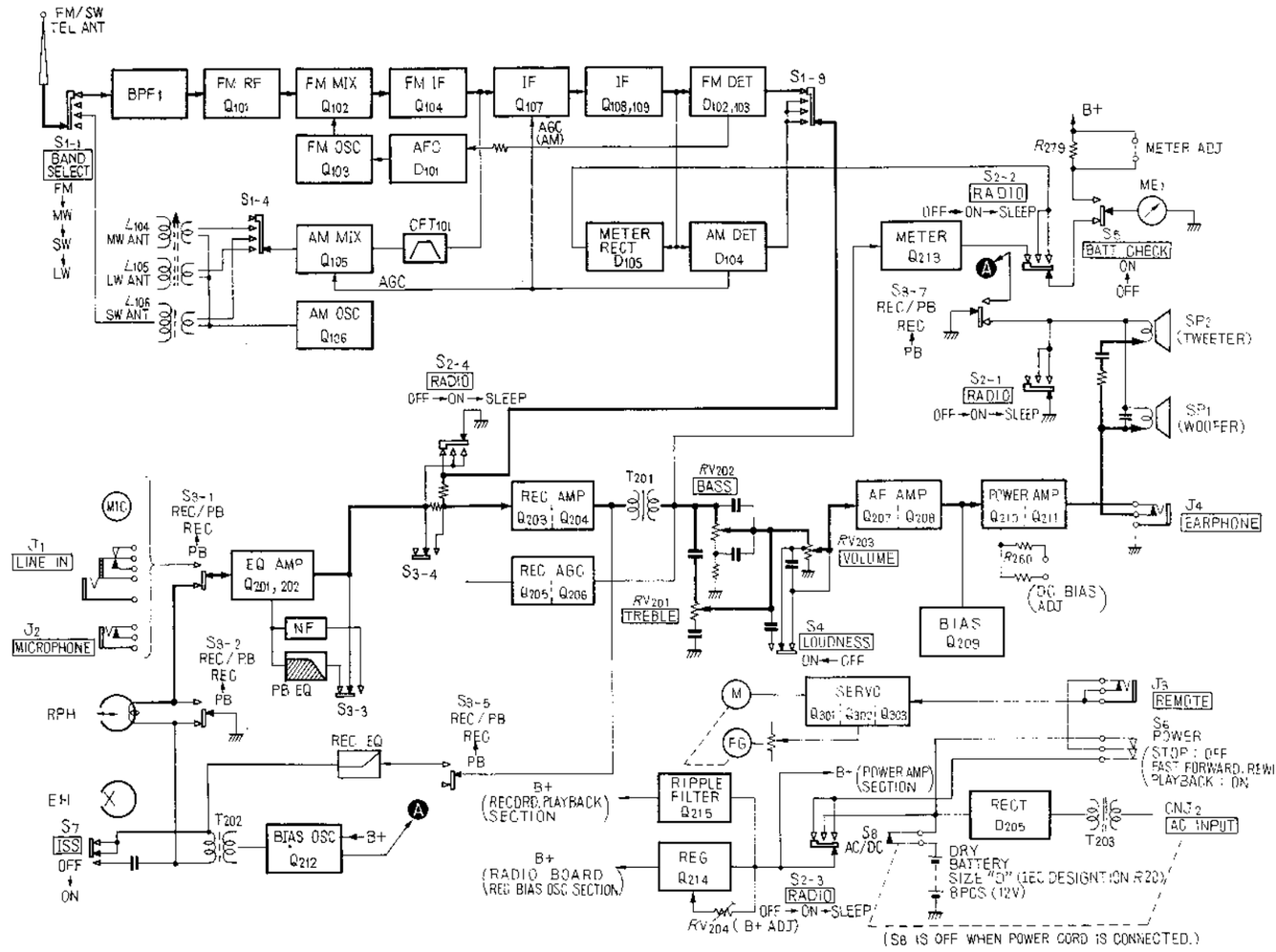
Canadian model



MEMO

SECTION 1

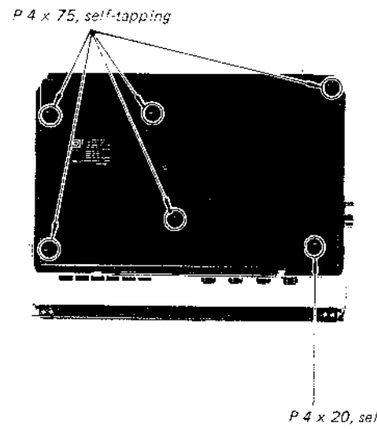
BLOCK DIAGRAM



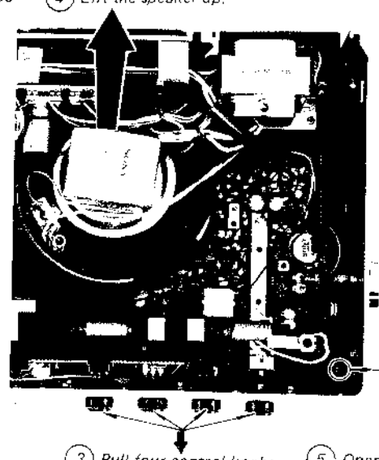
SECTION 2
DISASSEMBLY AND REPLACEMENT

2-1.

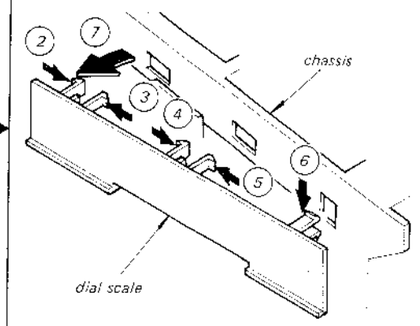
Rear Case



Front Case



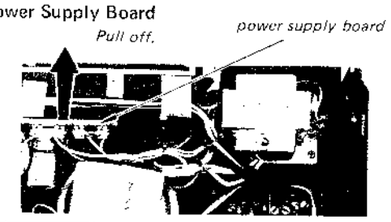
Dial Scale



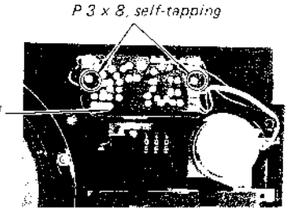
Dial Cord Stringing

Tape Speed Adjustment

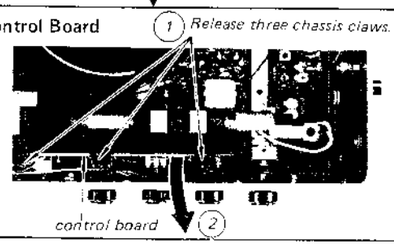
Power Supply Board



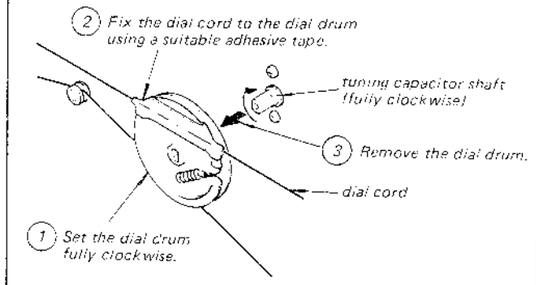
Servo Board



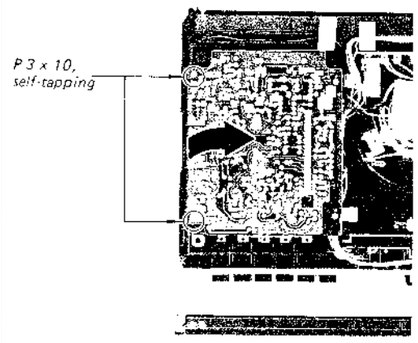
Control Board



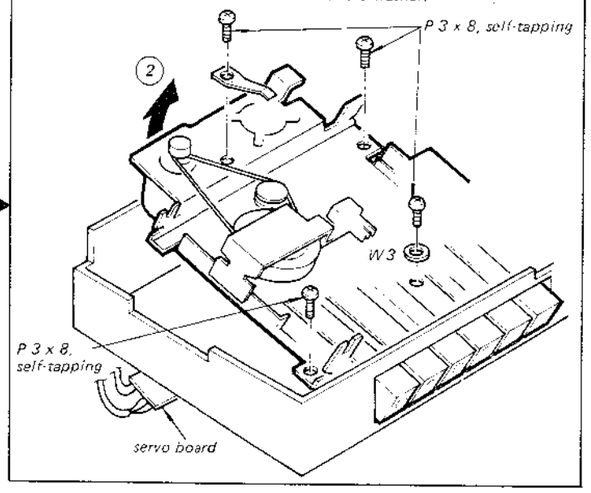
Radio Board

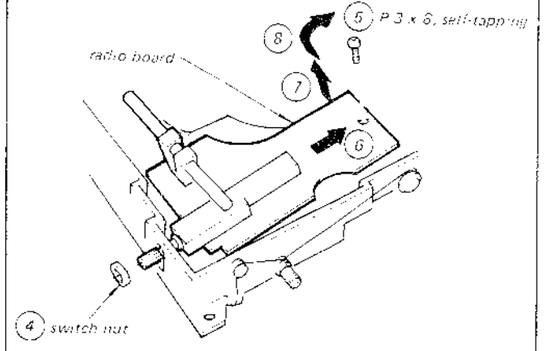


Amp Board



Tape Recorder Chassis



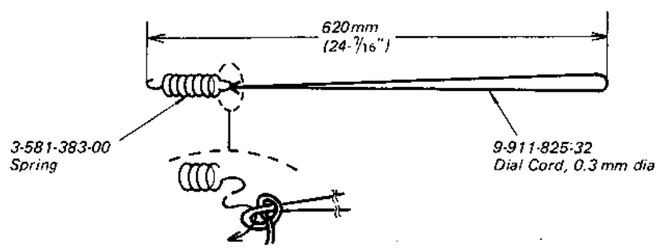


Note: When reattaching the dial drum, set the tuning capacitor shaft fully clockwise.

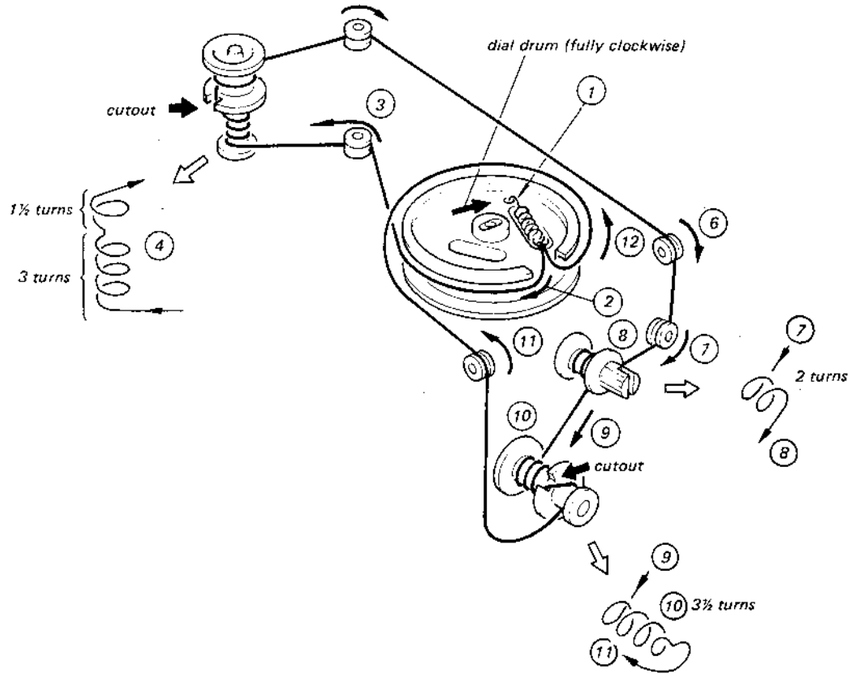
2-2. DIAL CORD STRINGING

1) Dial Cord Preparation

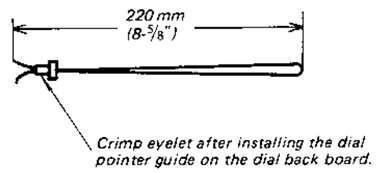
Remove the tweeter.



2) Dial Cord Stringing

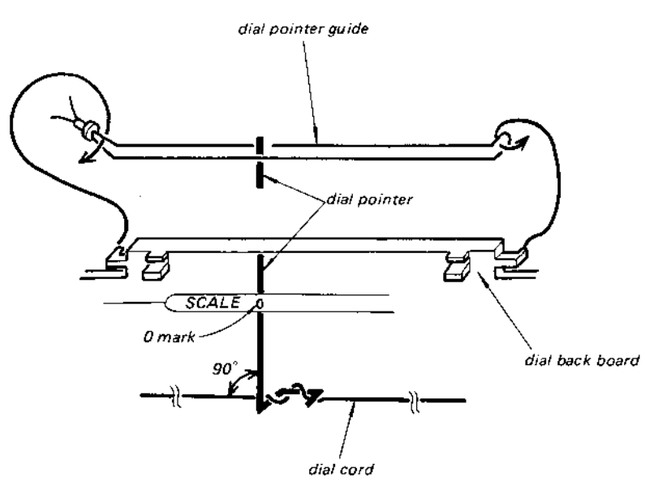


3) Preparation of Dial Pointer Guide



4) Dial Pointer Setting

Set the tuning shaft to fully counterclockwise position.



SECTION 3

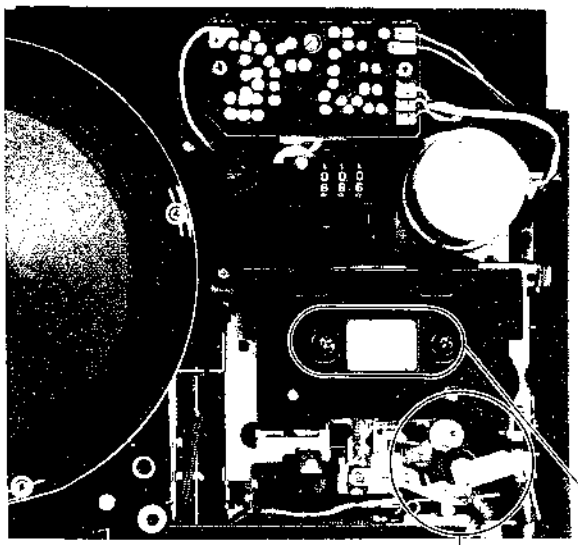
ADJUSTMENTS

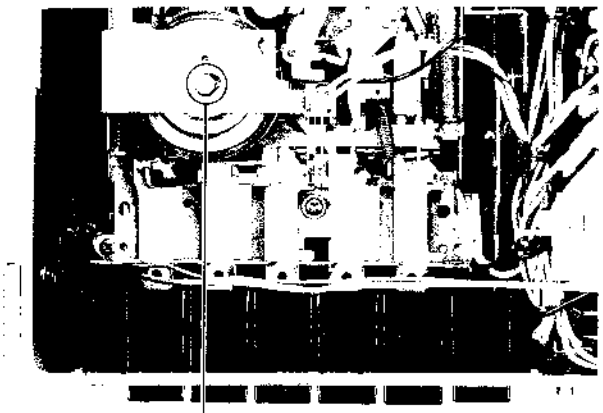
PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belts
   capstan
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
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. TAPE RECORDER SECTION

3-1-1. MECHANICAL ADJUSTMENTS

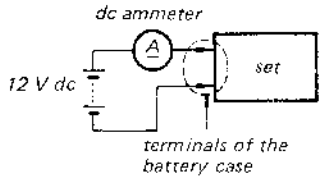




Flywheel Thrust Play Adjustment

Procedure:

1. Mode: playback



2. Loosen the screw until the screw tip is detached from the flywheel shaft.
3. Gradually turn the screw clockwise to the position where the motor current suddenly increases.
4. Then, loosen the screw about ¼turn from the position obtained in step 3.

Take-up Torque Measurement

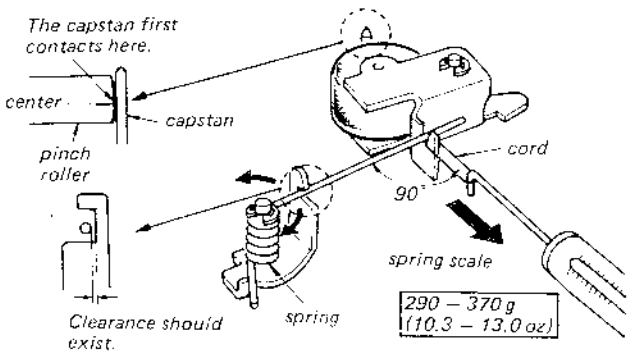
Power supply voltage: 12 V dc.

	SONY torque meter	Torque
forward	CQ-101A, CQ-102A, CQ-103A	25 – 55 g·cm (0.35 – 0.77 oz·inch)
fast forward, rewind	CQ-201A	60 g·cm (0.84 oz·inch) or more

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.



3-1-2. ELECTRICAL ADJUSTMENTS

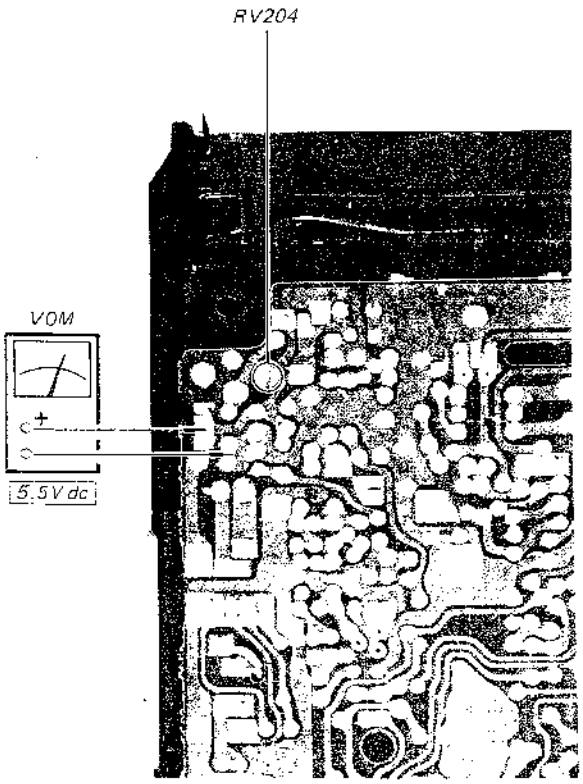
B+ Voltage Adjustment

Setting:

Power supply voltage:	12 V dc
RADIO switch:	OFF
VOLUME control:	MIN
Mode:	playback with no cassette installed

Adjustment Location and Specification:

– Amp Board –



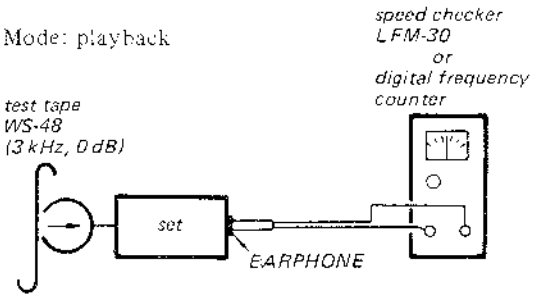
Tape Speed Adjustment

Setting:

VOLUME control:	center of rotation
Power source:	12 V dc

Procedure:

Mode: playback



Adjust RV301 for 0 % checker or 3000 Hz counter reading.

Specification:

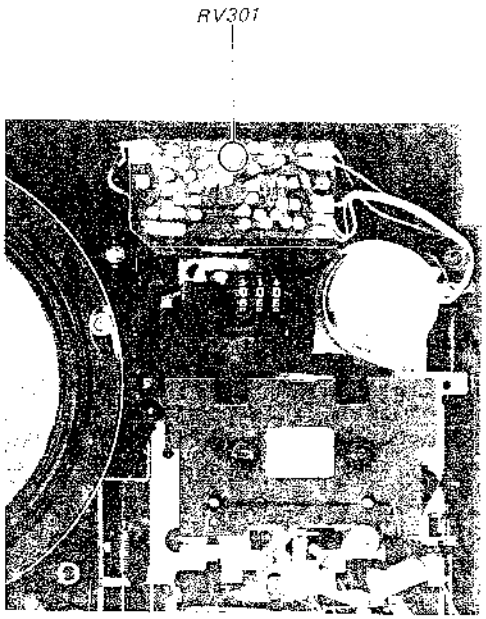
Speed Checker	Digital Frequency Counter
−1 % ~ +2 %	2970 ~ 3060 Hz

Frequency difference between beginning and end of tape should be within 1 % (30 Hz).

Adjustment Location:

– Servo Board –

Clockwise rotation:	speeds down



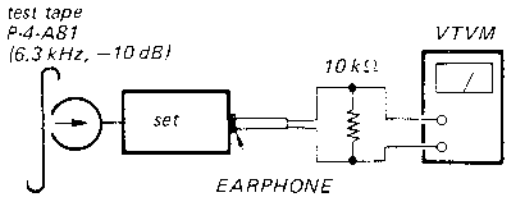
Record/playback Head Azimuth Adjustment

Setting:

VOLUME control: center of rotation

Procedure:

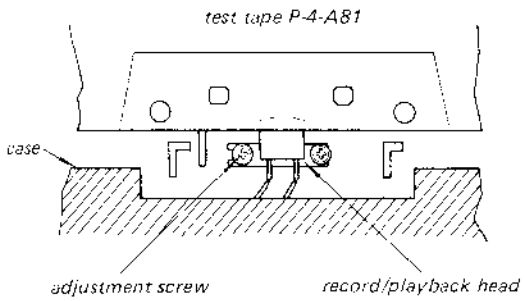
1. Mode: playback



2. Turn the adjustment screw for the highest VTVM reading.

Note: Several peaks may appear, take the highest.

Adjustment Location:



Battery Meter Calibration

Setting:

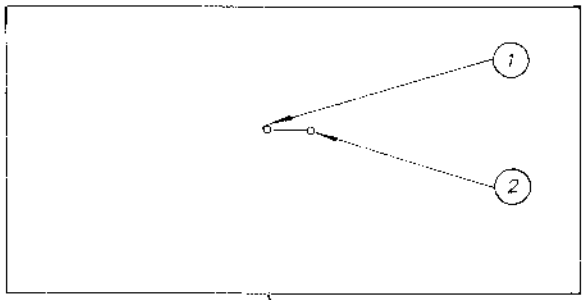
Power supply voltage:	8.8 V dc
VOLUME control:	MIN
RADIO switch:	OFF
Mode:	playback with no cassette installed

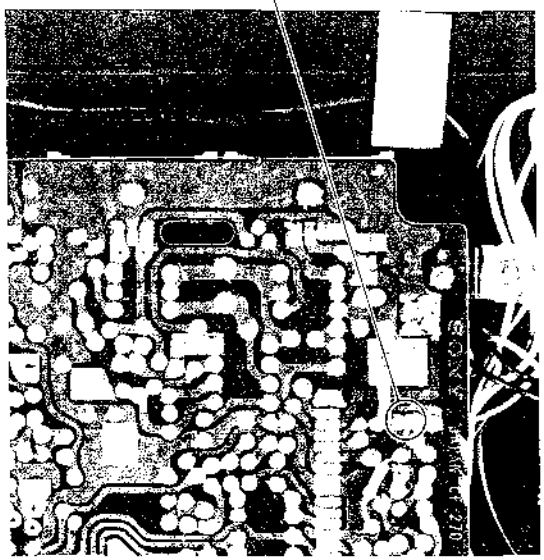
Adjustment Location and Specification:

– Amp Board –

Push BATT CHECK button.

Pattern Connection	Pointer Deflection	Meter Indication
Open	down	pointer position range, green, BATT, FULL
① and ②	up	





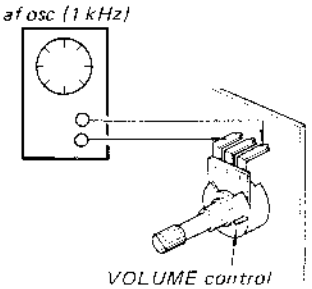
AC Bias Adjustment

Setting:

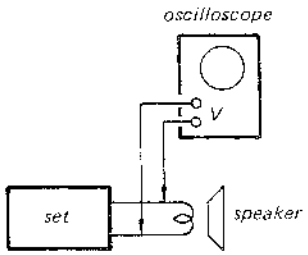
RADIO switch:	OFF
VOLUME control:	MAX
RADIO switch:	OFF
Mode:	playback with no cassette installed

Procedure:

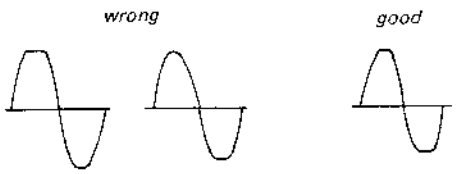
1. Input signal connection



Output signal connection

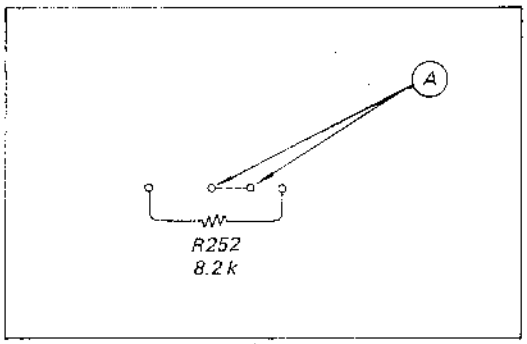


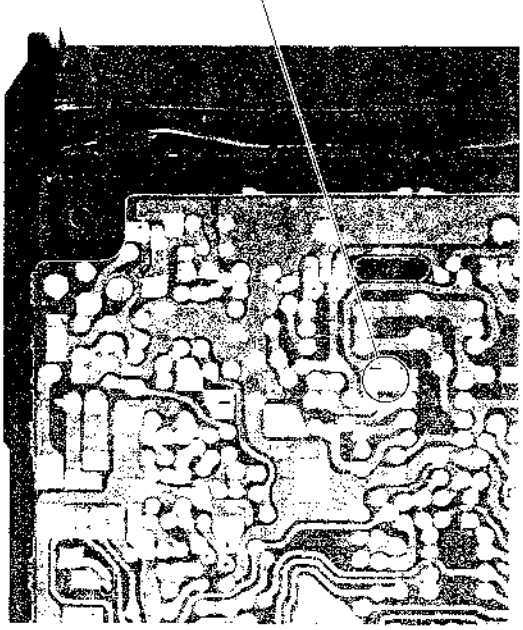
2. Adjust output level of the audio oscillator so that either positive- or negative-going half of output waveform starts to clip.
3. Connect or open the patterns at (A) so that both halves start to clip simultaneously.



Adjustment Location:

– Amp Board –





DC Bias Adjustment

Setting:

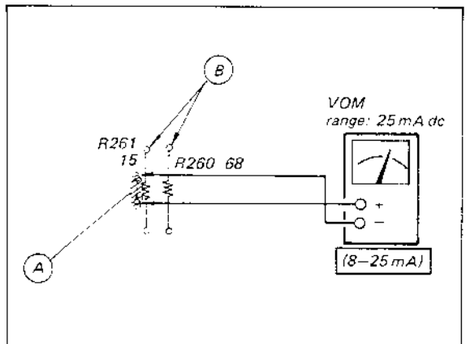
RADIO switch:	OFF
VOLUME control:	MIN
Mode:	playback with no cassette installed

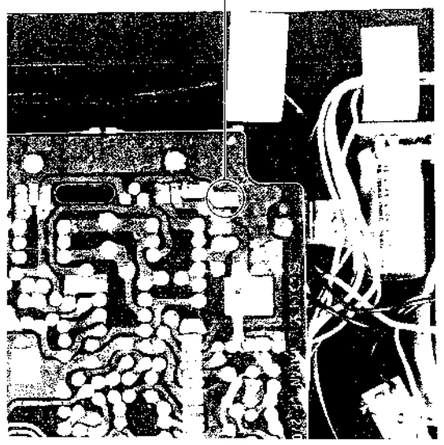
Procedure:

1. Remove the soldered bridge at A.
2. Measure current. If it is from 8 to 25 mA, resolder the patterns.
3. If the current is bellow 8 mA, solder the patterns at B and resolder the patterns at A.

Adjustment Location:

– Amp Board –

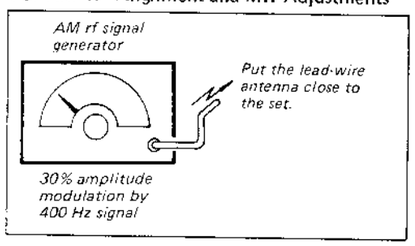




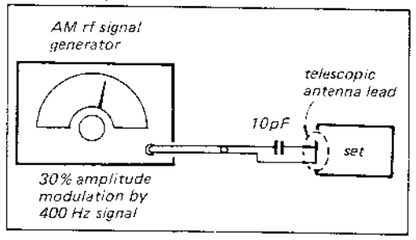
3-2. RADIO SECTION

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

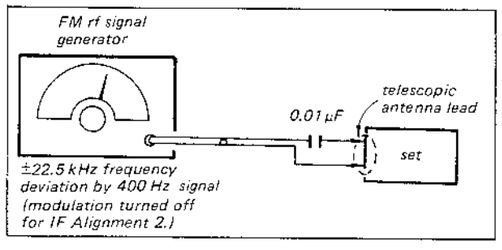
For AM IF Alignment and MW Adjustments



For SW Adjustments



For FM Adjustment



SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
L106	3.8 MHz
CT104	12.5 MHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
L107	520 kHz
CT106	1650 kHz

SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
CT107	12.5 MHz
L108	3.8 MHz

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
L109	145 kHz
CT108	300 kHz

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
CT105	L105
300 kHz	145 kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
CT103	L104
1400 kHz	600 kHz

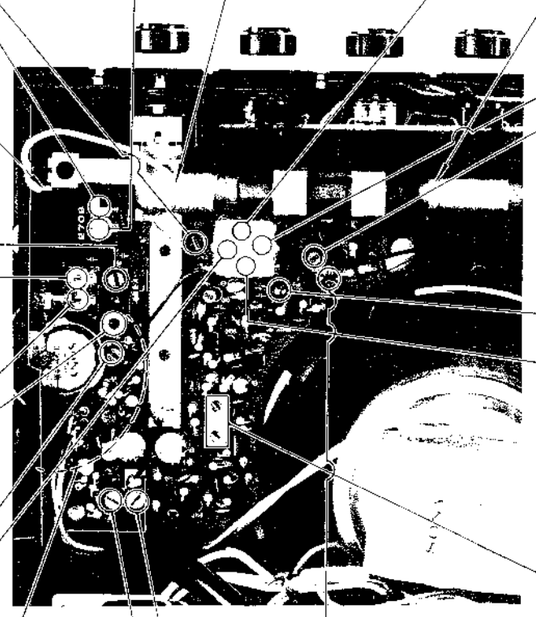
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ① .	
CT101	109 MHz (108 MHz)
L101	87 MHz (87.5 MHz)

( ) : in West Germany

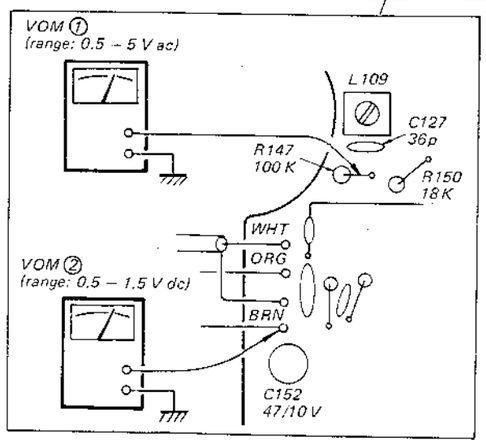
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ①	
L103	87 MHz (87.5 MHz)
CT102	109 MHz (108 MHz)

( ) : in West Germany

telescopic antenna lead



AM IF ALIGNMENT	
Adjust for a maximum reading on VOM ① .	
CFT101	455 kHz



FM IF ALIGNMENT 1 (10.7 MHz with modulation)
Adjust for a maximum reading on VOM ① .
IFT101
IFT102
IFT103

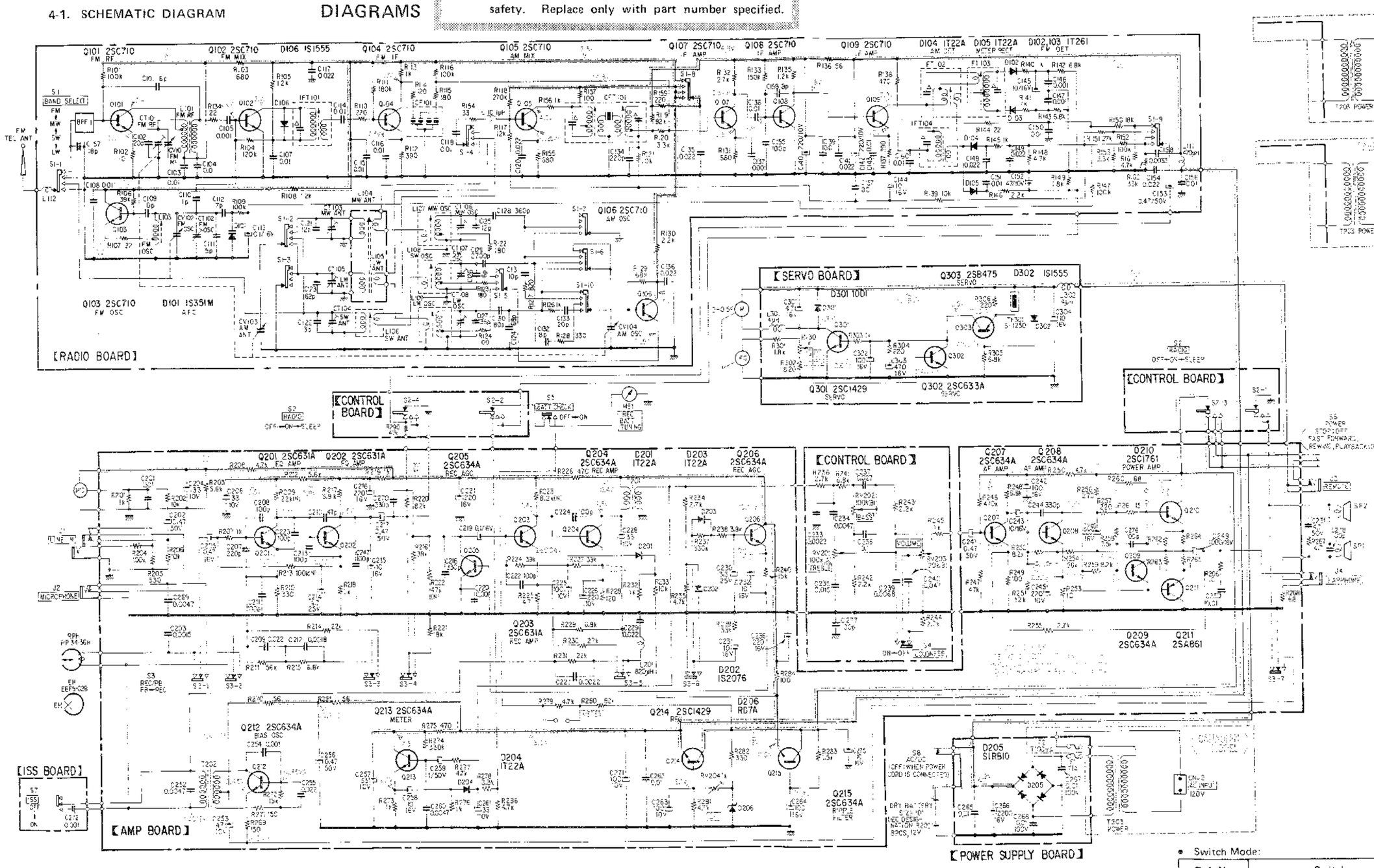
FM IF ALIGNMENT 2 (10.7 MHz with no modulation)
Adjust for a 0 V reading on VOM ② .
IFT103

SECTION 4

DIAGRAMS

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

4-1. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF = μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms. ¼ W unless otherwise noted. kΩ = 1000 Ω; MΩ = 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- (NI): low-noise capacitor and resistor.
- : internal component.
- : B+ bus.
- : panel designation.
- : adjustment for repair.
- : chassis ground.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 kΩ/V).

( ): RECORD < >: PLAYBACK [ ]: AM
no mark: common

- AC voltage reading in the bias oscillator circuit are taken with a VTVM.
- Transistor base-emitter voltages are measured on the 2.5 V range.
- Total current is measured with no cassette installed.
- Voltage variations may be noted due to normal production tolerances.

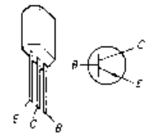
- Switch Mode:

Ref. No.	Switch	Position
S1	BAND SELECT	FM
S2	RADIO	OFF
S3	REC	PB
S4	LOUDNESS	OFF
S5	BATT CHECK	OFF
S6	POWER	OFF
S7	ISS	OFF
S8	AC/DC	DC

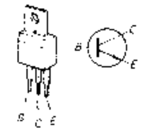
4-2. MOUNTING DIAGRAM – Power Supply, Servo and Amp Boards –
– Conductor Side –

Note: ( ) : Replacement Semiconductors

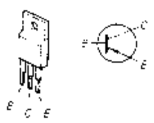
Q201, 202: 2SC631A
(2SC632A)
Q203: 2SC634A
(2SC632A)
Q204 – 209,
Q212, 213, 215: 2SC634A
Q302: 2SC633A
(2SC634A)



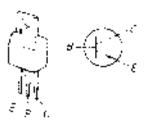
Q210: 2SC1761
(2SC1760)



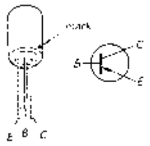
Q211: 2SA861



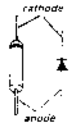
Q214, 301: 2SC1429



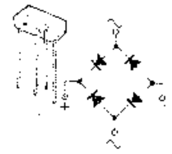
Q303: 2SB475
(2SB324)



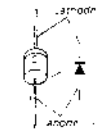
D201, 203, 204: 1T22A
D202: 1S2076
D206: RD7A
(D301: 10E2)
D302: 1S1555

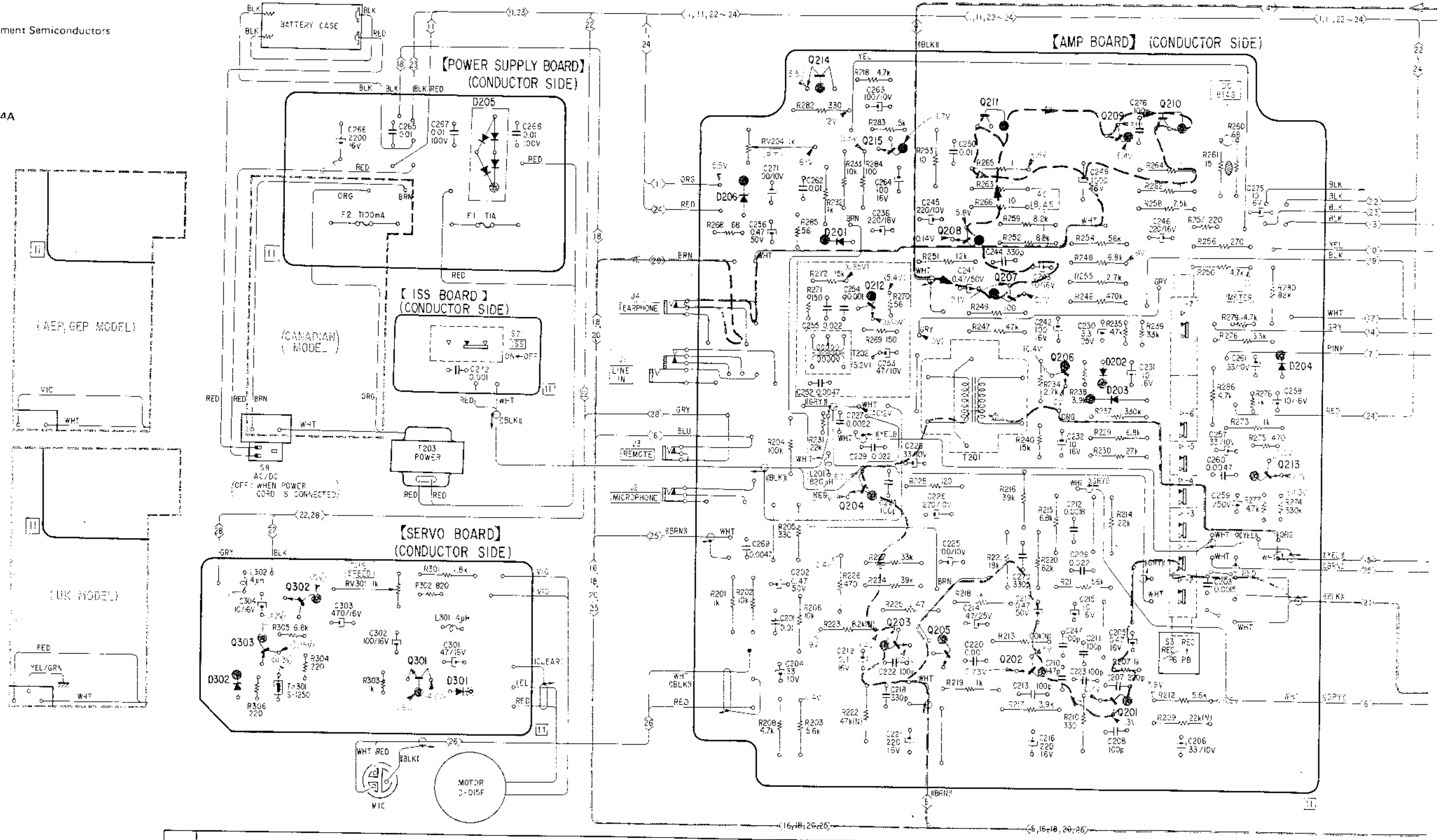


D205: S1RB10



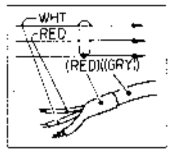
D301: 10D1





Q	303 302 301 214 212 215 208 211 207 206 209 210 213
D	302 205 301 206 201 204 203 205 202 201 202 203 204

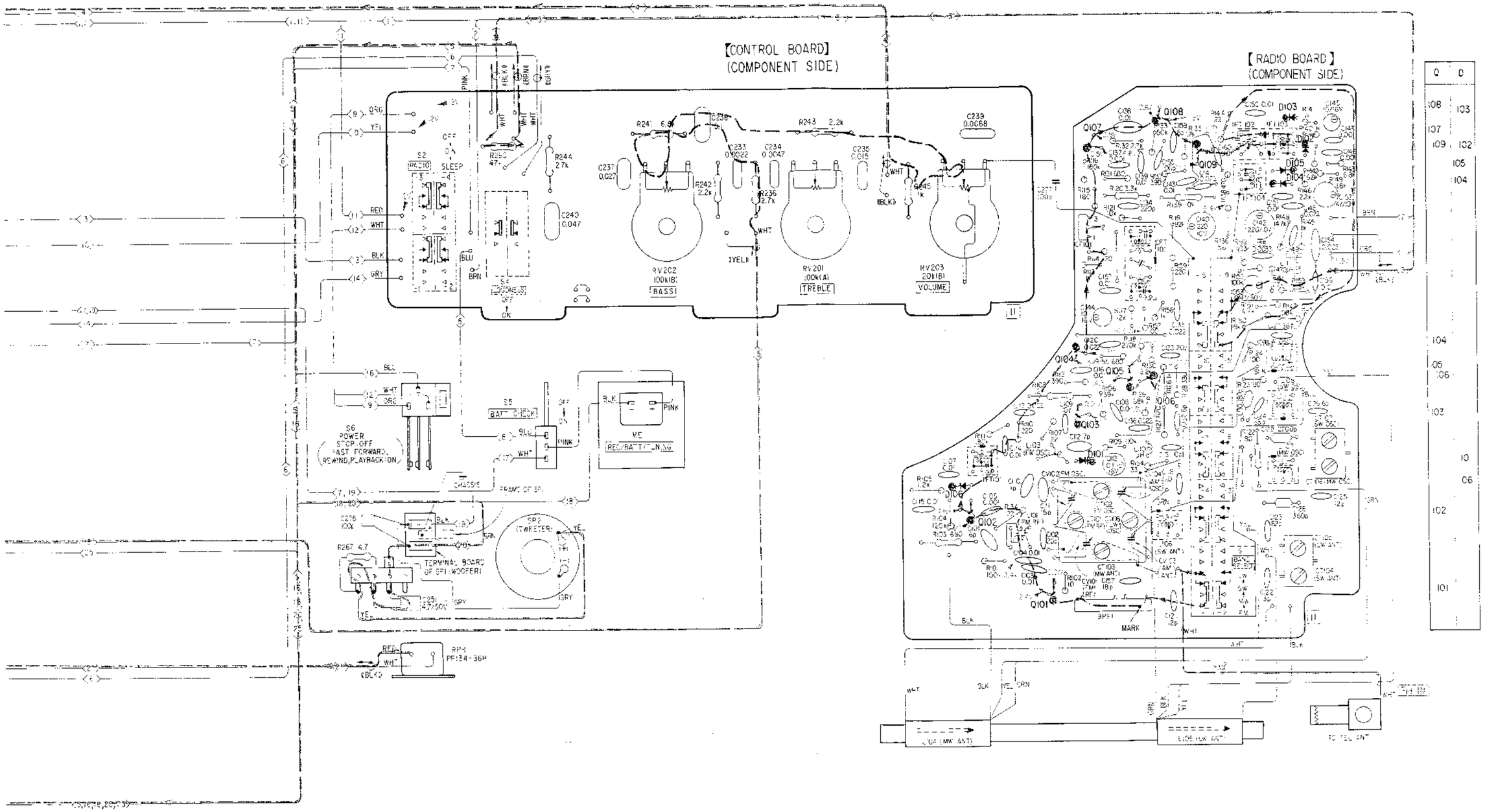
Note:
- Color code of sleeving over the end of the jacket.



- ▭ : indicates side identified with part number or with marking.
- ━ : B+ pattern
- ◄━ : signal path

4-3. MOUNTING DIAGRAM – Control and Radio Boards –

– Component Side –

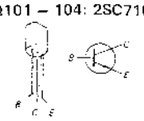


Note:

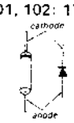
- Color code of sleeving over the end of the jacket.

- : indicates side identified with part number or with marking.
- : B+ pattern
- : signal path

Q101 – 104: 2SC710

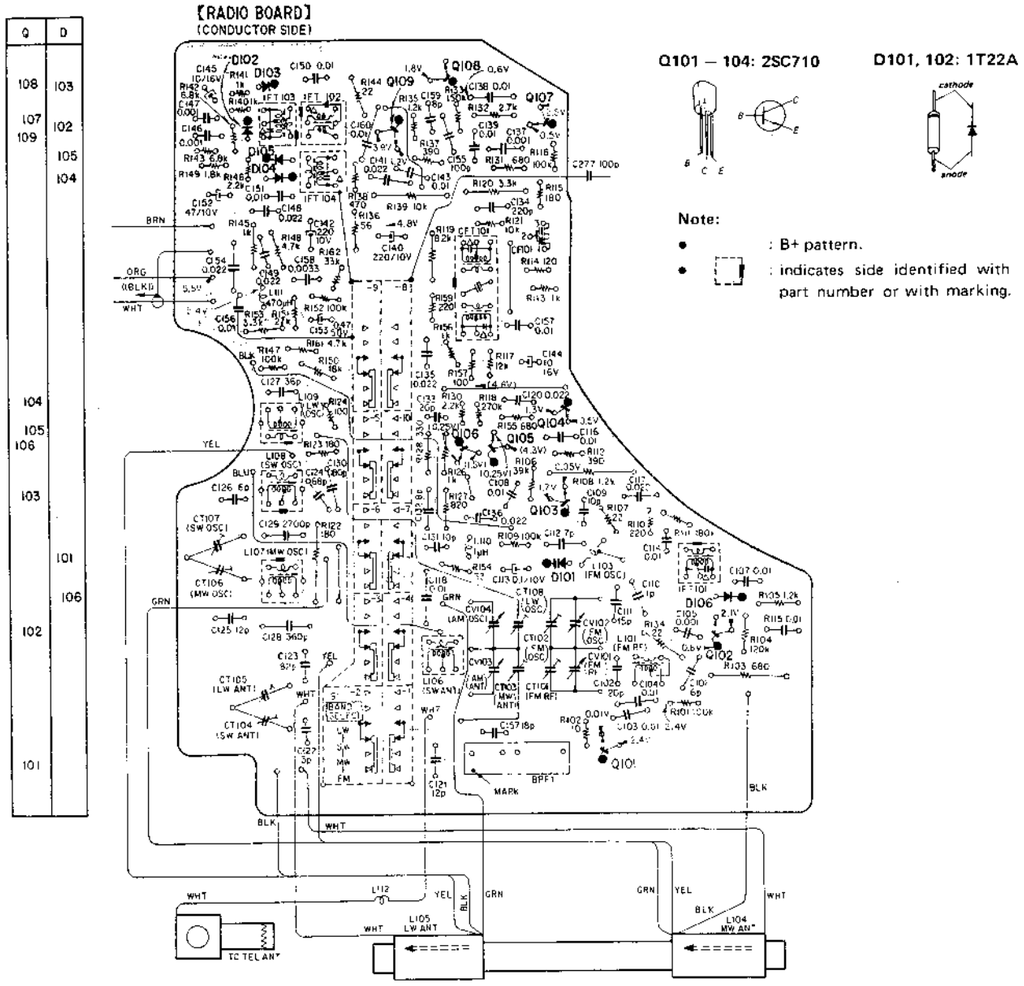


D101, 102: 1T22A



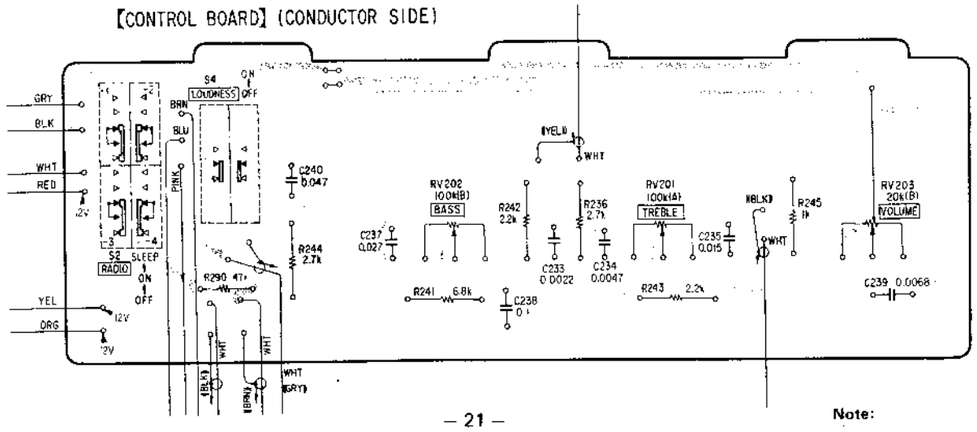
4-4. MOUNTING DIAGRAM – Radio Board –

– Conductor Side –



4-5. MOUNTING DIAGRAM – Control Board –

– Conductor Side –



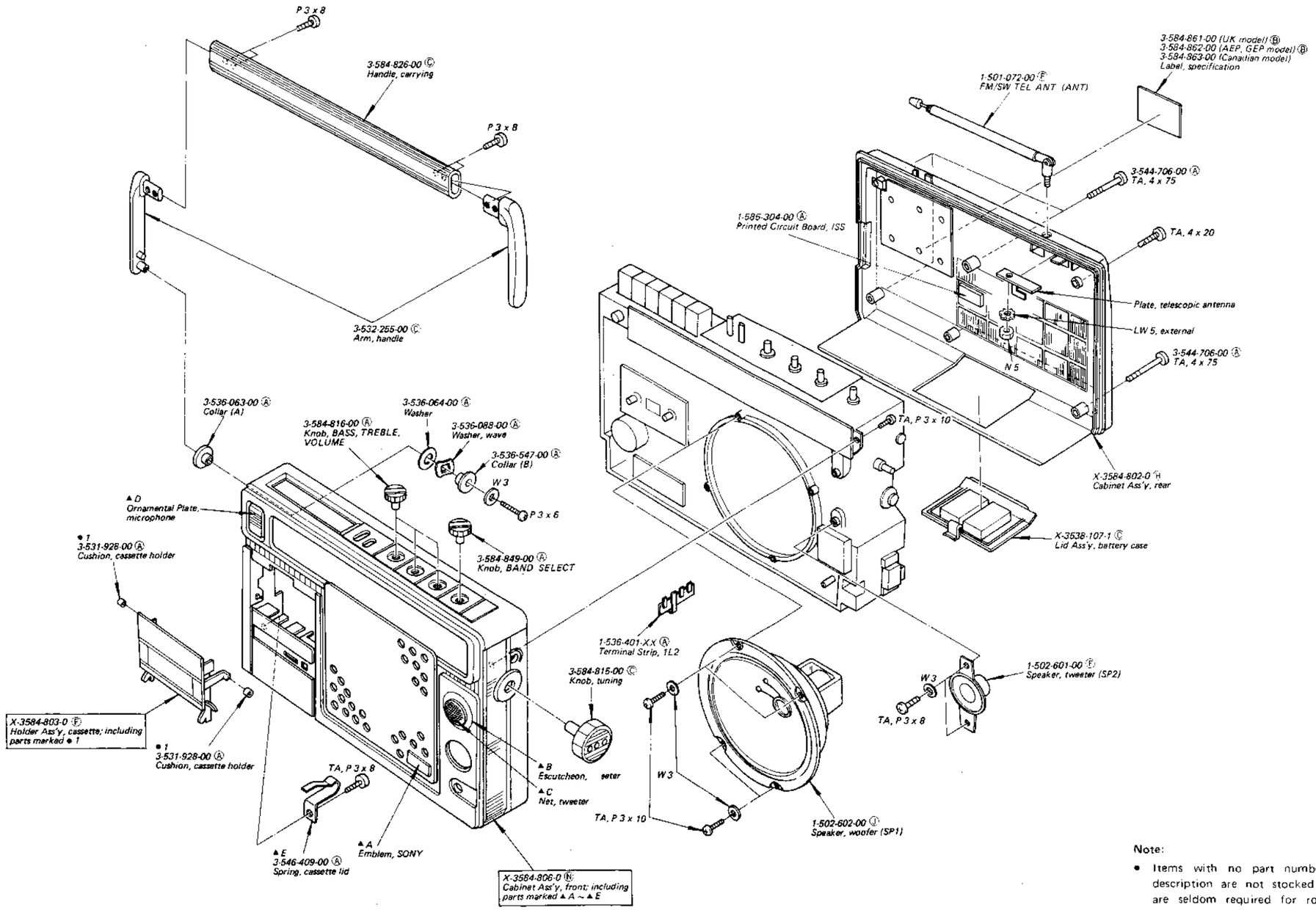
Note:
- : B+ pattern.

MEMO

SECTION 5

EXPLODED VIEWS

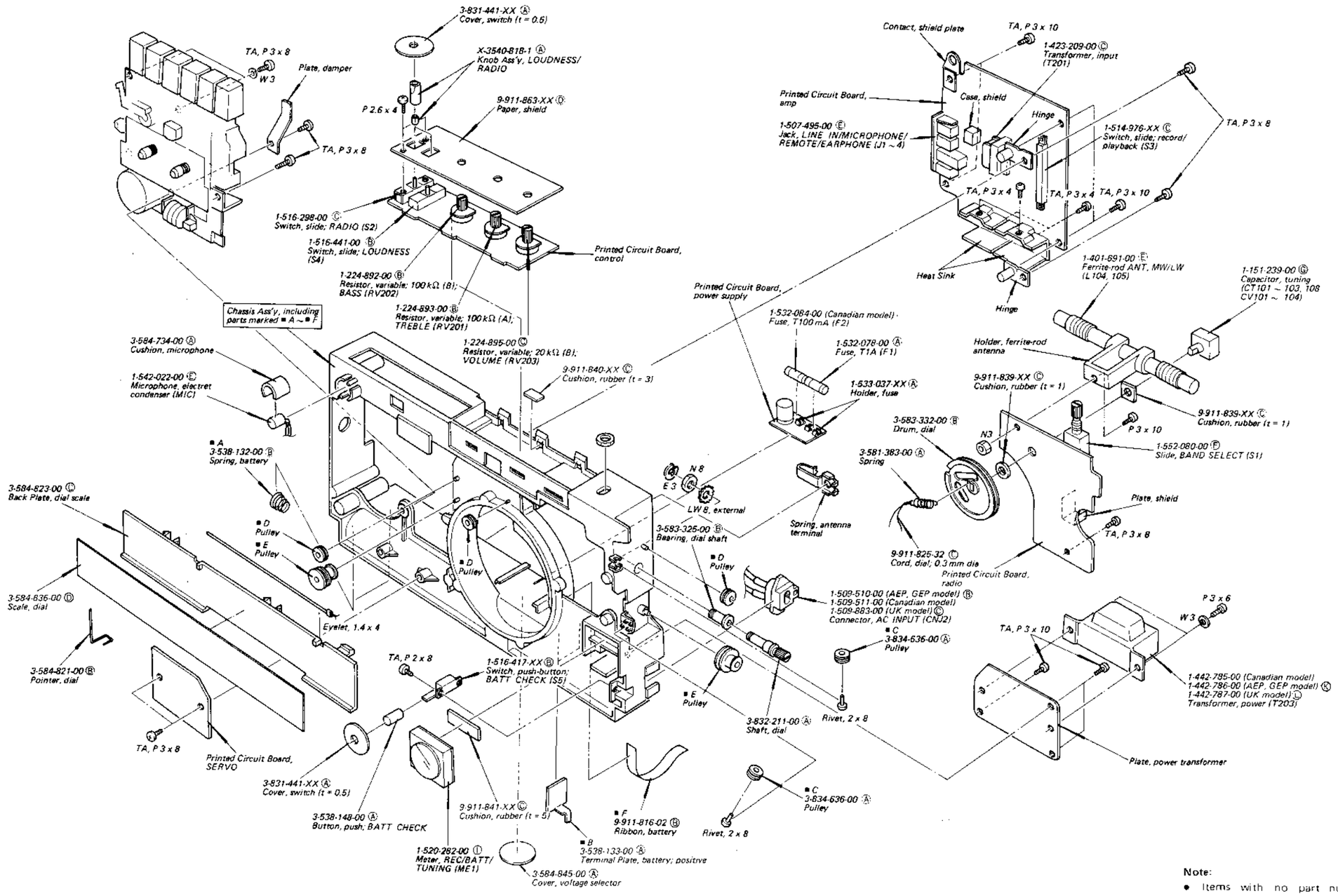
(1)



Note:

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

(2)

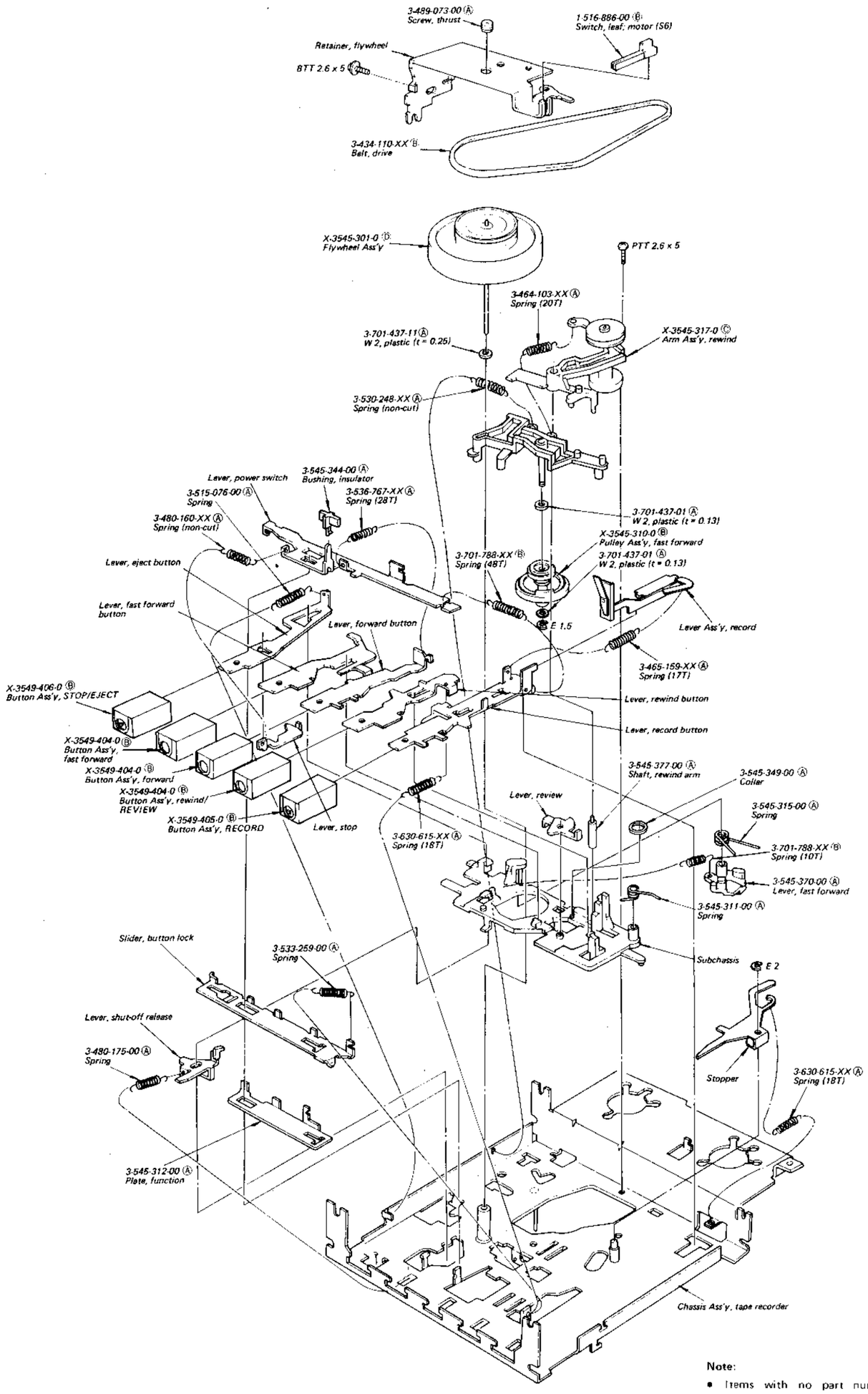


Note: The components identified by shading are critical for safety. Replace only with part number specified.

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

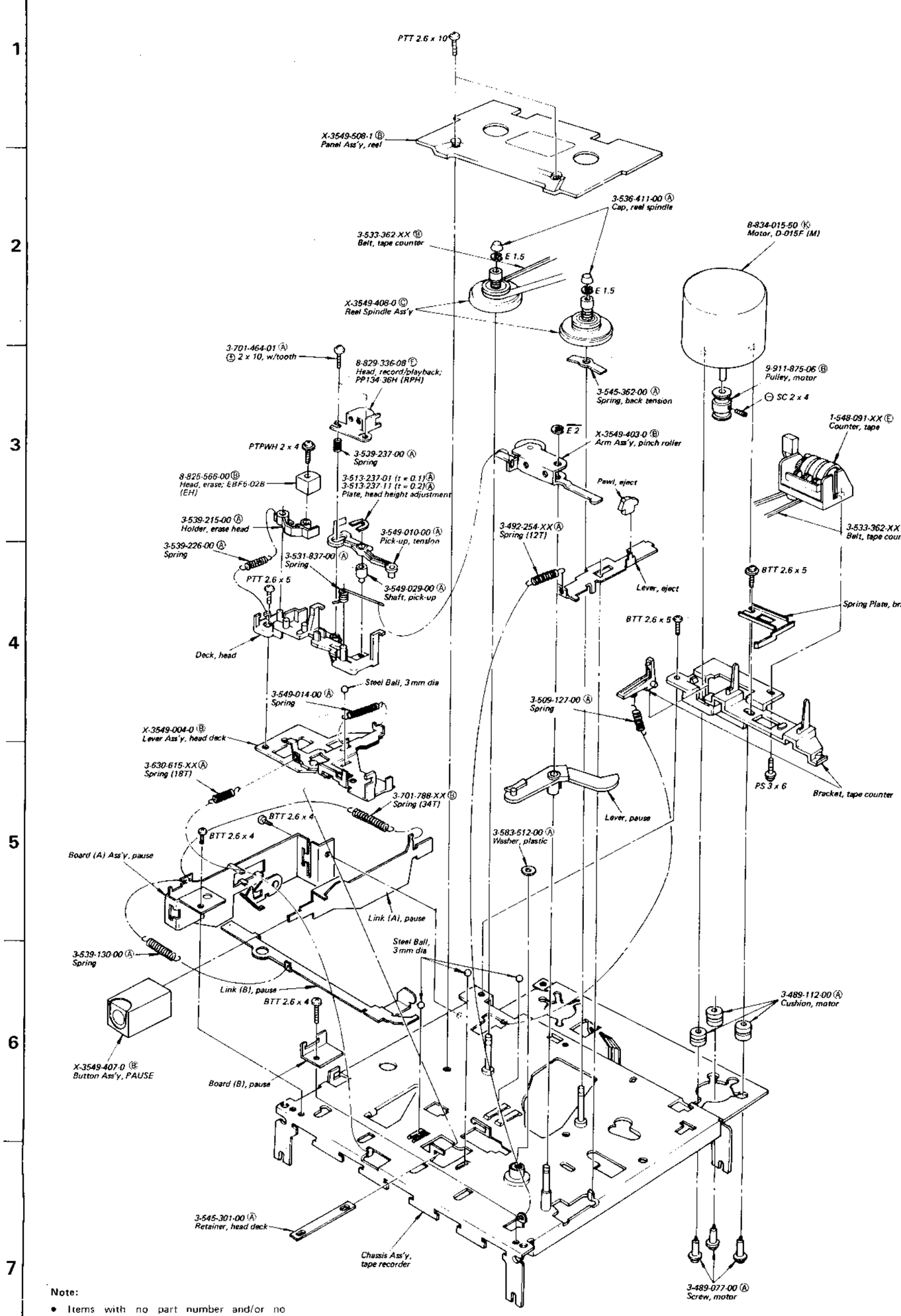
(3)



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

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

SECTION 6

ELECTRICAL PARTS LIST

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

Ref. No.	Part No.	Description
		PRINTED CIRCUIT BOARD
	1-585-304-00	Ⓐ ISS
		SEMICONDUCTORS
		Transistor
Q101 ~ 109		Ⓑ 2SC710
⇒Q201 ~ 203		Ⓑ 2SC631A
Q204 ~ 209		Ⓑ 2SC634A
⇒Q210		Ⓒ 2SC1760
Q211		Ⓒ 2SA861
Q212, 213		Ⓑ 2SC634A
⇒Q214		Ⓒ 2SC1429-05
Q215		Ⓑ 2SC634A
⇒Q301		Ⓒ 2SC1429-05
⇒Q302		Ⓑ 2SC634A
⇒Q303		Ⓑ 2SB324
		Diodes
⇒D101		Ⓑ 1S351M-1
D102, 103		Ⓑ 1T261
D104, 105		Ⓑ 1T22A
D106		Ⓑ 1S1555
D201		Ⓑ 1T22A
⇒D202		Ⓑ 1S2076A
D203, 204		Ⓑ 1T22A
D205		Ⓒ S1RB10
D206		Ⓑ RD7A
D301		Ⓑ 10E2
D302		Ⓑ 1S1555
Th301	1-800-198-XX	Ⓐ Thermistor, S-1250
		COILS
L101	1-425-632-00	Ⓑ FM ANT
L103	1-405-595-00	Ⓑ FM OSC
L104, 105	1-401-691-00	Ⓔ MW/LW ANT
L106	1-401-496-00	Ⓑ SW ANT
L107	1-405-520-00	Ⓑ MW OSC
L108	1-405-521-00	Ⓑ SW OSC
L109	1-405-751-00	Ⓑ LW OSC
L110	1-407-178-XX	Ⓐ 1μH, microinductor
L111	1-407-661-XX	Ⓐ 470μH, microinductor
L201	1-407-194-XX	Ⓐ 820μH, microinductor
⇒L301, 302	1-407-484-XX	Ⓑ 3.3μH, microinductor
		TRANSFORMERS
CFT101	1-403-165-00	Ⓒ AM CFT
IFT101	1-403-930-00	Ⓑ FM IFT
IFT102	1-403-952-00	Ⓑ FM Discriminator
IFT103	1-403-953-00	Ⓑ FM Discriminator
IFT104	1-403-137-00	Ⓑ AM IFT
T201	1-423-209-00	Ⓒ Input
T202	1-433-168-00	Ⓒ Bias Osc
T203	1-442-785-00	Ⓚ Power (Canadian model)
	1-442-786-00	Ⓚ Power (AEP, GEP model)
	1-442-787-00	Ⓛ Power (UK model)
		FILTERS
BPF101	1-231-286-00	Ⓑ FM Band-pass
CF101	1-527-184-XX	Ⓑ FM IF
		CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are omitted except for electrolytics.
pF = μμF, elect = electrolytic.

Ref. No.	Part No.	Description		
C101	1-102-943-11	Ⓐ 6 p		
C102	1-102-958-11	Ⓐ 20 p		
C103, 104	1-101-004-11	Ⓐ 0.01		
C105	1-101-001-11	Ⓐ 0.001		
C107, 108	1-101-004-11	Ⓐ 0.01		
C109	1-102-954-11	Ⓐ 10 p		
C110	1-102-938-11	Ⓐ 1 p		
C111	1-102-956-11	Ⓐ 15 p		
C112	1-102-944-11	Ⓐ 7 p		
C113	1-127-019-11	Ⓐ 0.1	16 V	solid aluminum
C114 ~ 116	1-101-004-11	Ⓐ 0.01		
C117	1-101-005-11	Ⓐ 0.022		
C118	1-101-004-11	Ⓐ 0.01		
C120	1-108-242-12	Ⓐ 0.022		mylar
C121	1-102-955-11	Ⓐ 12 p		
C122	1-102-940-11	Ⓐ 3 p		
C123	1-102-974-11	Ⓐ 82 p		
C124	1-101-889-11	Ⓐ 68 p		
C125	1-102-955-11	Ⓐ 12 p		
C126	1-102-943-11	Ⓐ 6 p		
C127	1-101-964-11	Ⓐ 36 p		
C128	1-103-714-11	Ⓐ 360 p	50 V	polystyrol
C129	1-103-735-11	Ⓐ 2700 p	50 V	polystyrol
C130	1-103-707-11	Ⓐ 180 p	50 V	polystyrol
C131	1-102-954-11	Ⓐ 10 p		
C132	1-102-945-11	Ⓐ 8 p		
C133	1-102-958-11	Ⓐ 20 p		
C134	1-102-983-11	Ⓐ 220 p		
C135, 136	1-101-005-11	Ⓐ 0.022		
C137	1-101-001-11	Ⓐ 0.001		
C138, 139	1-101-004-11	Ⓐ 0.01		
C140	1-121-420-11	Ⓐ 220	10 V	elect
C141	1-101-005-11	Ⓐ 0.022		
C142	1-121-420-11	Ⓐ 220	10 V	elect
C143	1-101-004-11	Ⓐ 0.01		
C144, 145	1-121-651-11	Ⓐ 10	16 V	elect
C146, 147	1-108-227-12	Ⓐ 0.001		mylar
C148, 149	1-101-005-11	Ⓐ 0.022		
C150	1-108-239-12	Ⓐ 0.01		mylar
C151	1-101-004-11	Ⓐ 0.01		
C152	1-121-352-11	Ⓐ 47	10 V	elect
C153	1-121-726-11	Ⓐ 0.47	50 V	
C154	1-101-005-11	Ⓐ 0.022		
C155	1-102-975-11	Ⓐ 100 p		
C156, 157	1-101-004-11	Ⓐ 0.01		
C158	1-108-232-12	Ⓐ 0.0033		mylar
C159	1-102-945-11	Ⓐ 8 p		
C160	1-108-239-12	Ⓐ 0.01		mylar
C201	1-108-239-12	Ⓐ 0.01		mylar
C202	1-121-726-11	Ⓐ 0.47	50 V	elect
C203	1-108-228-12	Ⓐ 0.0015		mylar
C204	1-121-402-11	Ⓐ 33	10 V	elect
C205	1-127-022-11	Ⓐ 0.47	16 V	solid aluminum
C206	1-121-402-11	Ⓐ 33	10 V	elect
C207	1-102-983-11	Ⓐ 220 p		
C208	1-102-975-11	Ⓐ 100 p		
C209	1-108-242-12	Ⓐ 0.022		mylar
C210	1-101-881-11	Ⓐ 47 p		
C211	1-102-975-11	Ⓐ 100 p		
C212	1-108-352-12	Ⓐ 0.0018		mylar
C213	1-102-975-11	Ⓐ 100 p		
C214	1-121-395-11	Ⓐ 4.7	25 V	elect
C215	1-121-651-11	Ⓐ 10	16 V	elect
C216	1-121-421-11	Ⓑ 220	16 V	elect
C217	1-121-726-11	Ⓐ 0.47	50 V	elect
C218	1-102-832-11	Ⓐ 330 p		
C219	1-127-019-11	Ⓐ 0.1	16 V	solid aluminum
C220	1-108-227-12	Ⓐ 0.001		mylar
C221	1-121-421-11	Ⓑ 220	16 V	elect
C222 ~ 224	1-102-975-11	Ⓐ 100 p		
C225	1-121-414-11	Ⓐ 100	10 V	elect
C226	1-121-420-11	Ⓐ 220	10 V	elect
C227	1-108-230-12	Ⓐ 0.0022		mylar
C228	1-121-402-11	Ⓐ 33	10 V	elect
C229	1-108-242-12	Ⓐ 0.022		mylar
C230	1-121-392-11	Ⓐ 3.3	25 V	elect
C231, 232	1-121-651-11	Ⓐ 10	16 V	elect
C233	1-108-230-12	Ⓐ 0.0022		mylar
C234	1-108-234-12	Ⓐ 0.0047		mylar
C235	1-108-240-12	Ⓐ 0.015		mylar
C236	1-121-421-11	Ⓑ 220	16 V	elect
C237	1-108-259-12	Ⓐ 0.027		mylar
C238	1-108-251-12	Ⓑ 0.1		mylar
C239	1-108-237-12	Ⓐ 0.0068		mylar
C240	1-108-246-12	Ⓐ 0.047		mylar
C241	1-121-726-11	Ⓐ 0.47	50 V	elect

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

Ref. No.	Part No.	Description		
C242	1-121-415-11	Ⓐ 100	16 V	elect
C243	1-121-651-11	Ⓐ 10	16 V	elect
C244	1-102-832-11	Ⓐ 330 p		
C245	1-121-420-11	Ⓐ 220	10 V	elect
C246	1-121-421-11	Ⓑ 220	16 V	elect
C247	1-102-975-11	Ⓐ 100 p		
C249	1-121-245-11	Ⓑ 1000	16 V	elect
C250	1-108-239-12	Ⓐ 0.01		mylar
C251	1-119-427-11	Ⓑ 4.7	50 V	elect
C252	1-108-234-12	Ⓐ 0.0047		mylar
C253	1-121-352-11	Ⓐ 47	10 V	elect
C254	1-108-227-12	Ⓐ 0.001		mylar
C255	1-108-242-12	Ⓐ 0.022		mylar
C256	1-121-726-11	Ⓐ 0.47	50 V	elect
C257	1-121-402-11	Ⓐ 33	10 V	elect
C258	1-121-651-11	Ⓐ 10	16 V	elect
C259	1-121-391-11	Ⓐ 1	50 V	elect
C260	1-108-234-12	Ⓐ 0.0047		mylar
C261	1-121-402-11	Ⓐ 33	10 V	elect
C262	1-108-239-12	Ⓐ 0.01		mylar
C263	1-121-414-11	Ⓐ 100	10 V	elect
C264	1-121-415-11	Ⓐ 100	16 V	elect
C265	1-108-239-12	Ⓐ 0.01		mylar
C266	1-121-660-11	Ⓑ 2200	16 V	elect
C267, 268	1-108-377-12	Ⓐ 0.01	100 V	mylar
C269	1-108-234-12	Ⓐ 0.0047		mylar
C270	1-102-832-11	Ⓐ 330 p		
C271	1-121-414-11	Ⓐ 100	10 V	elect
C272	1-108-227-12	Ⓐ 0.001		mylar
C275	1-121-651-11	Ⓐ 10	16 V	elect
C276 ~ 278	1-102-975-11	Ⓐ 100 p		
C301	1-121-409-11	Ⓐ 47	16 V	elect
C302	1-121-415-11	Ⓐ 100	16 V	elect
C303	1-121-426-11	Ⓑ 470	16 V	elect
C304	1-121-651-11	Ⓐ 10	16 V	elect
CT101~103, 108 CV101~104	1-151-239-00	Ⓖ Tuning		

Ref. No.	Part No.	Description
CT104 ~ 107	1-141-146-XX	Ⓑ Trimmer

RESISTORS

All resistors in ohms. Common ¼W carbon resistors are omitted. Check schematic diagram for values. (k = 1000)

RV201	1-224-893-00	Ⓑ 100 kΩ, variable; TREBLE
RV202	1-224-892-00	Ⓑ 100 kΩ, variable; BASS
RV203	1-224-895-00	Ⓒ 20 kΩ, variable; VOLUME
RV204	1-224-642-XX	Ⓑ 1 kΩ, adjustable
RV301	1-224-642-XX	Ⓑ 1 kΩ, adjustable

SWITCHES

S1	1-552-080-00	Ⓕ Slide, BAND SELECT
S2	1-516-298-00	Ⓒ Slide, RADIO
S3	1-514-976-XX	Ⓒ Slide, record/playback
S4	1-516-441-00	Ⓑ Slide, LOUDNESS
S5	1-516-417-XX	Ⓑ Push-button, BATT CHECK
S6	1-516-886-00	Ⓑ Leaf, motor
S7	1-516-226-00	Ⓑ Slide, ISS

FUSES

F1	1-532-078-00	Ⓐ T1A
F2	1-532-084-00	T100 mA (Canadian model)

MISCELLANEOUS

ANT	1-501-072-00	Ⓔ FM/SW TEL ANT
CN32	1-509-510-00	Ⓑ Connector, AC INPUT (AEP, GEP model)
	1-509-511-00	Connector, AC INPUT (Canadian model)
	1-509-883-00	Ⓒ Connector, AC INPUT (UK model)
EH	8-825-566-00	Ⓑ Head, erase; EBF5-02B
J1 ~ 4	1-507-495-00	Ⓔ Jack, LINE IN/MICROPHONE/ REMOTE/EARPHONE
M	8-834-015-50	Ⓚ Motor, D-015F
ME1	1-520-282-00	Ⓘ Meter, REC/BATT/TUNING
MIC	1-542-022-00	Ⓔ Microphone, electret condenser

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

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

Ref. No.	*Part No.*	*Description*
RPH	8-829-336-08	Ⓕ Head, record/playback; PP134-36H
SP1	1-502-602-00	Ⓙ Speaker, woofer
SP2	1-502-601-00	Ⓕ Speaker, tweeter
	1-533-037-XX	Ⓐ Holder, fuse
	1-536-401-XX	Ⓐ Terminal Strip, 1L2

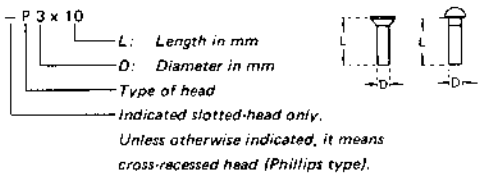
ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*	
1-506-309-13	Ⓐ Plug, shorting (SP-100)	
1-534-840-XX	Ⓓ Cord, power (DK-38)	(AEP, GEP model)
1-534-879-00	Ⓖ Cord, power (DK-44)	(UK model)
1-551-002-00	Cord, power (DK-36)	(Canadian model)
3-584-852-11	Ⓒ Manual, instruction	
3-584-858-00	Ⓓ Carton	
3-584-859-00	Ⓒ Cushion	
3-701-630-00	Ⓐ Bag, plastic; accessories	
3-701-638-00	Ⓑ Bag, plastic; set	
3-793-828-00	Ⓐ Card, caution; cassette	
8-890-205-00	Ⓓ Tape, cassette; C-30	

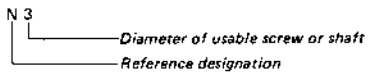
Note: The components identified by shading are critical for safety. Replace only with part number specified.

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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