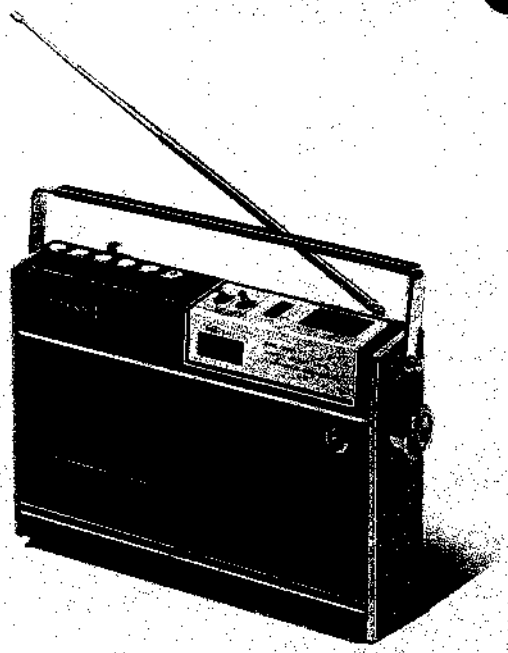
CF-150

E Model
Canada Model
AEP Model
UK Model



FM-AM RADIO CASSETTE-CORDER

SPECIFICATIONS

RADIO SECTION

Circuit: Superheterodyne

Frequency Ranges:
FM: 87.5 ~ 108 MHz (3.43 ~ 2.78 m)
AM: 530 ~ 1,605 kHz (566 ~ 187 m)

Intermediate Frequency:
FM: 10.7 MHz
AM: 455 kHz

Antennas:
FM: built-in telescopic
AM: built-in ferrite bar

Sensitivity at 50 mW output:
FM: 3.2 μV (11 dB), S/N = 30 dB
AM: 110 μV/m (41 dB/m), S/N = 6 dB

Selectivity at 10 kHz off-resonance: 21 dB at 1,000 kHz

S/N Ratio:
FM: 52 dB at input level
55 dB, 98 MHz
AM: 31 dB at input level
60 dB/m, 1000 kHz

Current Drain at zero input:
FM: 7 mA
AM: 3 mA

TAPE RECORDER SECTION

Track: Two-track mono

Frequency Response: 100 ~ 8000 Hz

Wow and Flutter: 0.32 % (RMS) weighted

Tape Speed: 4.8 cm/s ($1\frac{7}{8}$ ips)

Overall S/N Ratio: 40 dB

Input:
MIC
Impedance: low
Maximum sensitivity: −72 dB (0.19 mV)

Output:
MONITOR
Impedance: 8 Ω load or more
Output level: 2 dB (0.95 V) with 10 kΩ load

GENERAL

Power Requirements:
AC 110 ~ 120, 220 ~ 240 V, 50/60 Hz(E)
240 V 50 Hz (UK)
127, 220, 240 V 50/60 Hz (AEP)
120 V 60 Hz (Canada)
DC 6 V (battery size "C" 4 pcs)

Semiconductors: 1 FET (included in electret condenser microphone), 13 transistors and 10 diodes

Power Consumption:
AC 5 W (AEP, UK, Canada)
AC 6 W (E)

Power Output: 1.0 W

Speaker: $3\frac{1}{2}$" (9.2 cm)

Dimensions:
272 (w) x 193 (h) x 70 (d) mm
$10\frac{3}{4}$ (w) x $7\frac{5}{8}$ (h) x $2\frac{13}{16}$ (d) inches

Weight: 2.5 kg, 5 lb 5 oz

SONY®
SERVICE MANUAL

TABLE OF CONTENTS

MODEL IDENTIFICATION

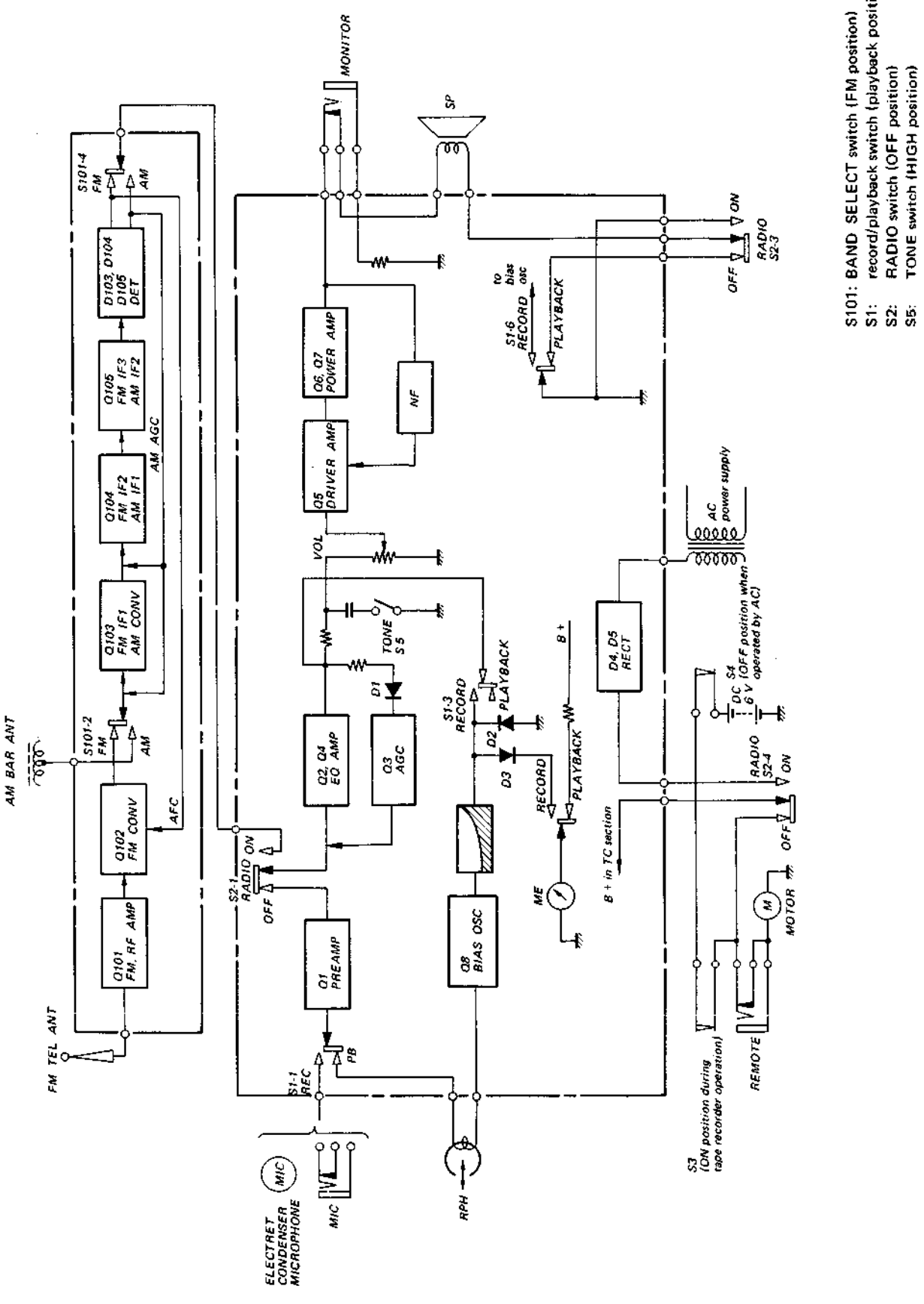
(See specification label.)

Model	Identification on specification label
E	AC: 110 ~ 120 V 220 ~ 240 V 50/60 Hz 6 W
CANADA	AC: 120 V 60 Hz 5 W
AEP	220 V ~ 50/60 Hz 5 W
UK	~ AC 240 V 50 Hz 5 W

When ordering replacement parts, use PART NUMBERS listed in Parts List or shown in EXPLODED VIEW.
Parts List reference numbers should not be used.

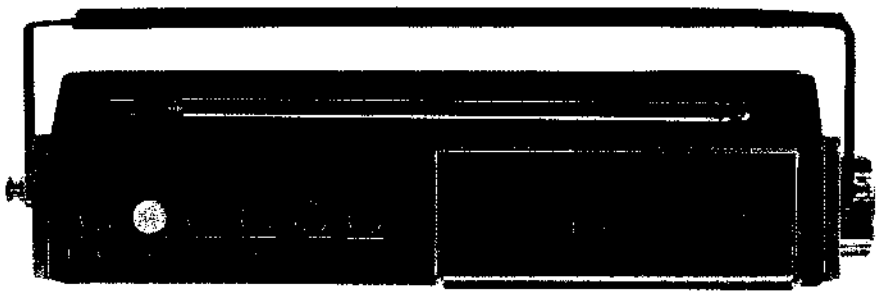
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

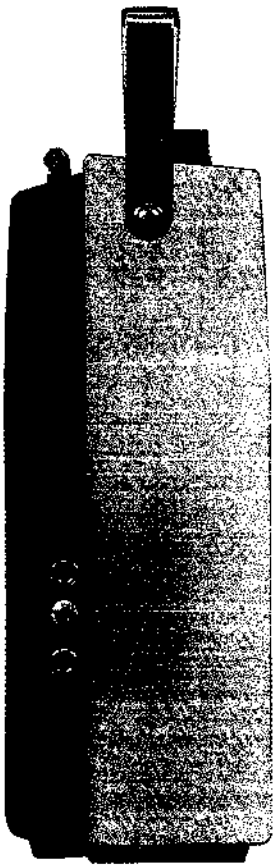


S101: BAND SELECT switch (FM position)
S1: record/playback switch (playback position)
S2: RADIO switch (OFF position)
S5: TONE switch (HIGH position)

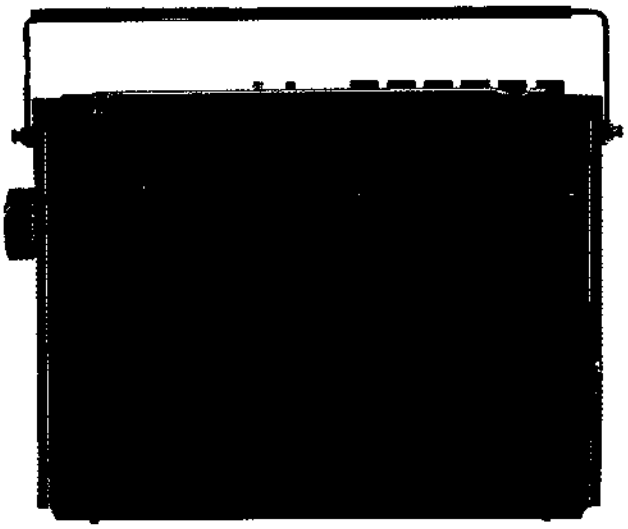
1-2. EXTERNAL VIEW – 1 –



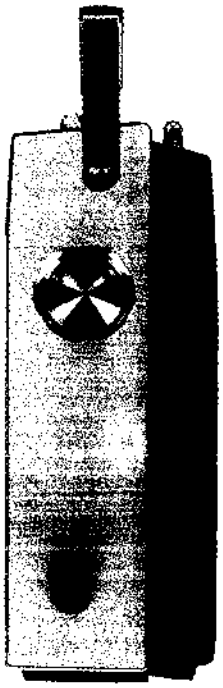
1-3. EXTERNAL VIEW – 2 –



1-4. EXTERNAL VIEW – 3 –

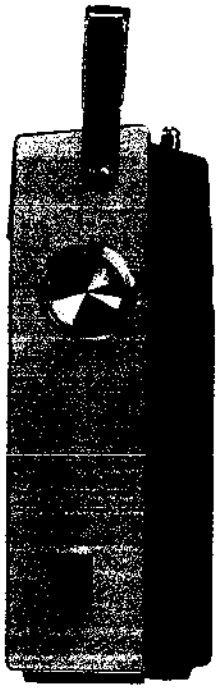


1-5. EXTERNAL VIEW – 4 –



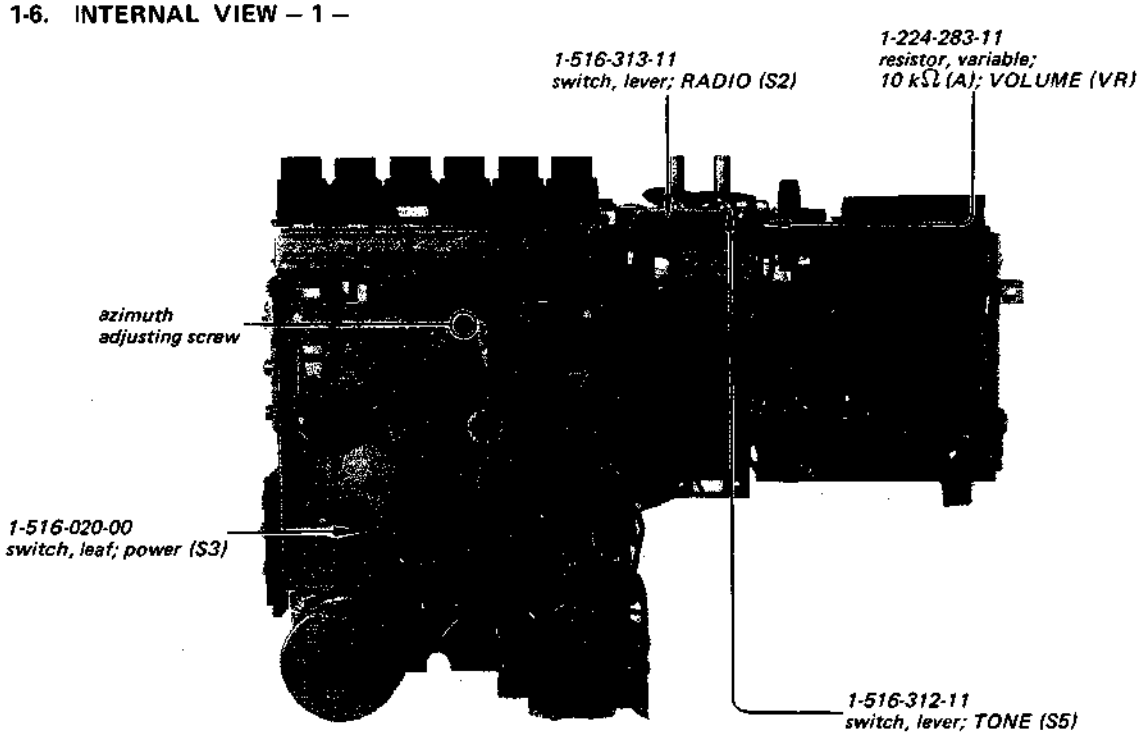
AEP Model

UK Model

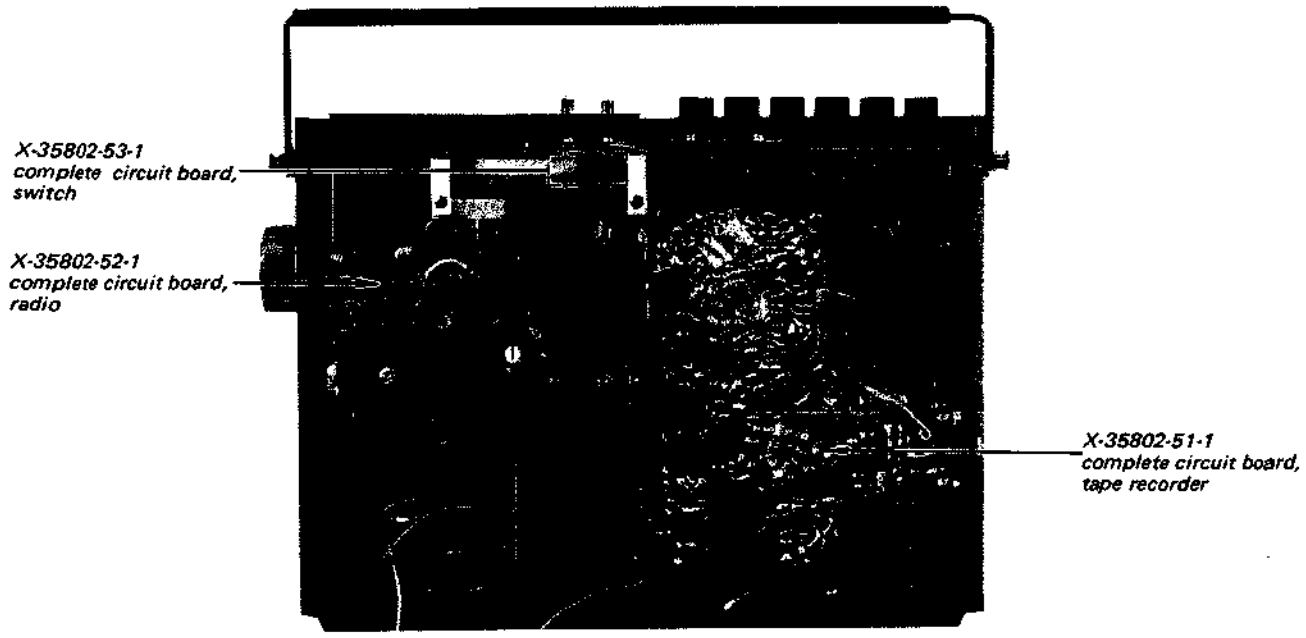


E and Canada Model

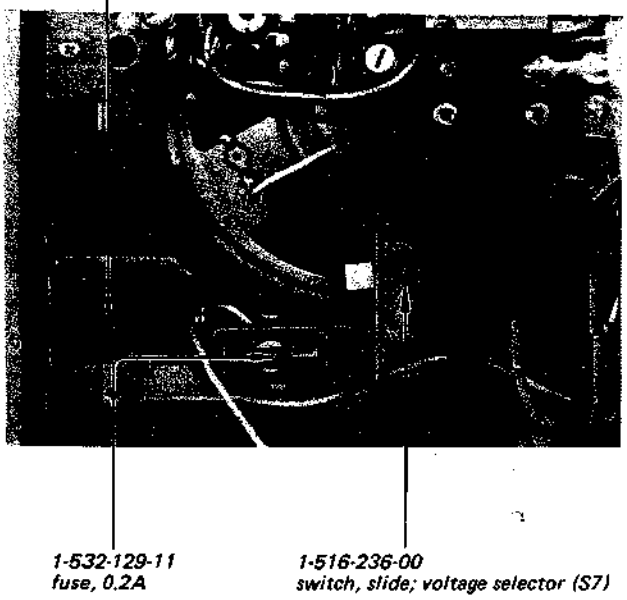
1-6. INTERNAL VIEW – 1 –



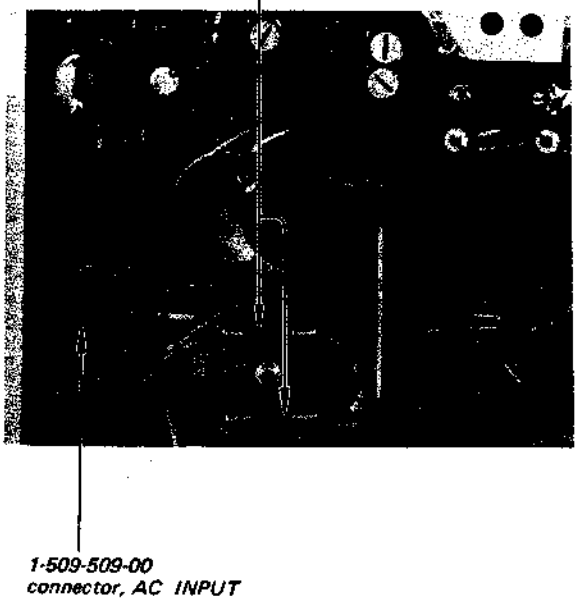
1-7. INTERNAL VIEW – 2 –



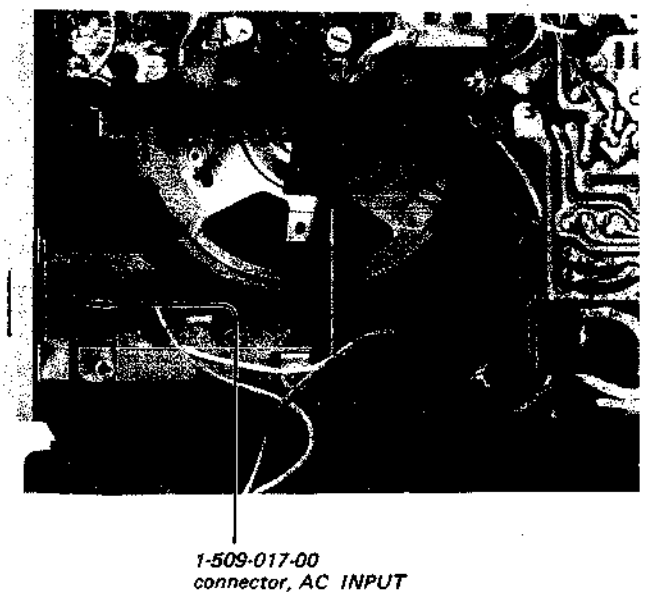
1-8. INTERNAL VIEW – 3 –



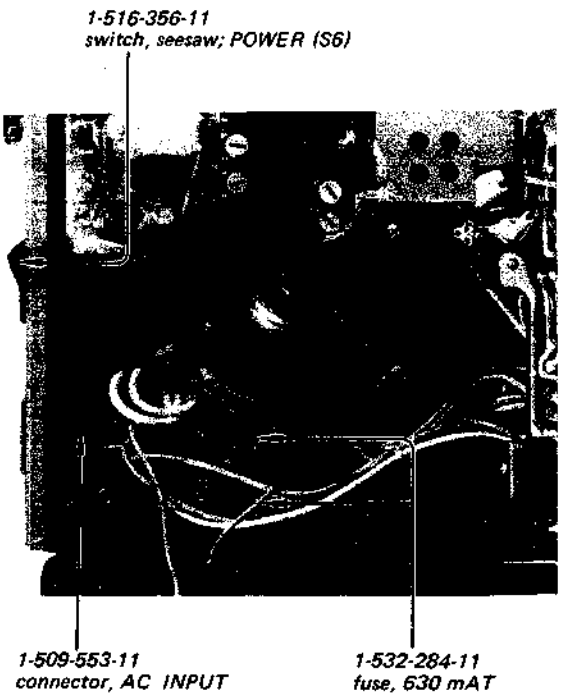
E Model



AEP Model



Canada Model

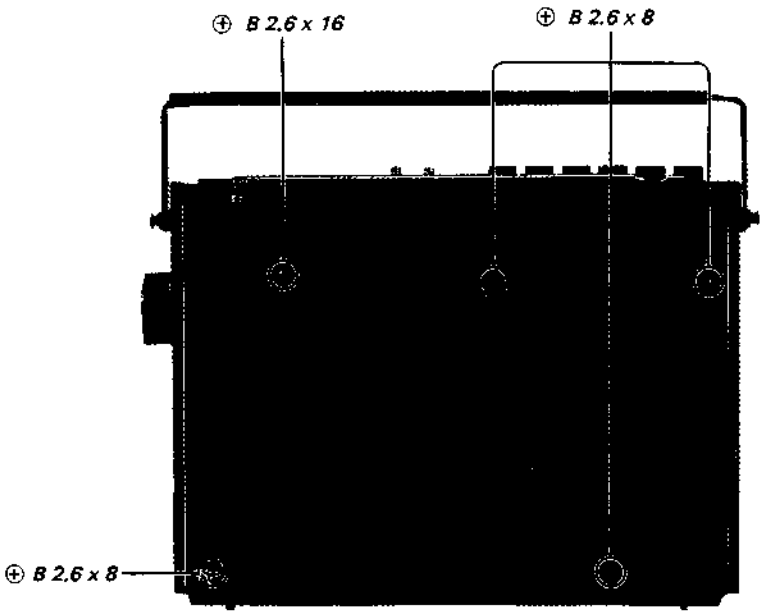


UK Model

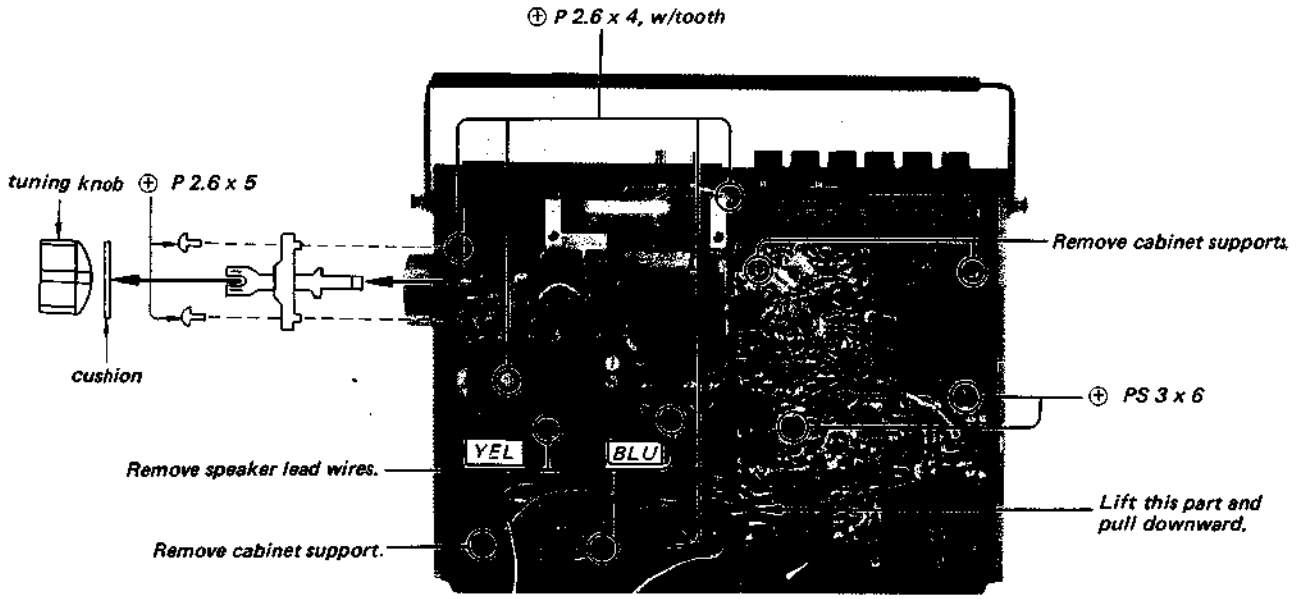
SECTION 2

DISASSEMBLY

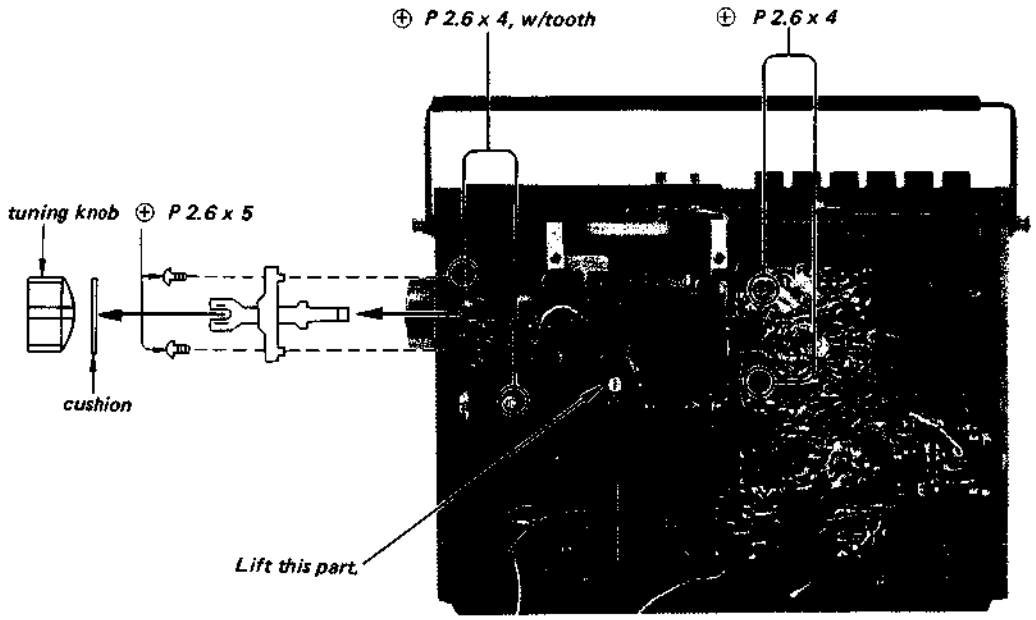
2-1. REAR CABINET REMOVAL



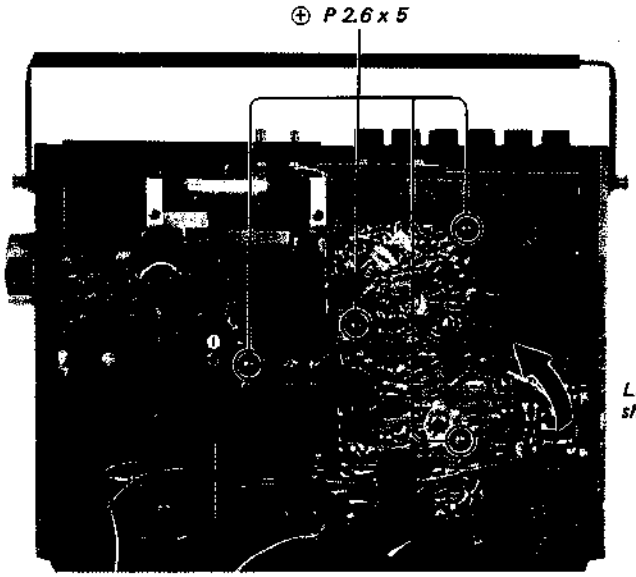
2-2. FRONT CABINET REMOVAL



2-3. RADIO SECTION REMOVAL



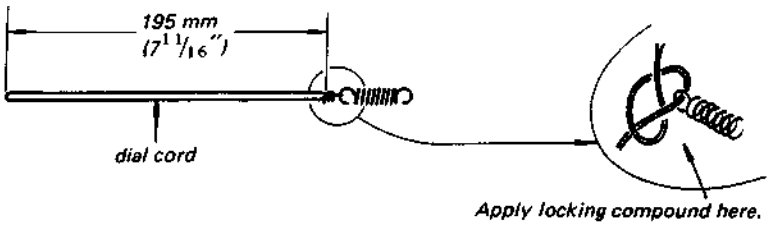
2-4. TAPE RECORDER CIRCUIT BOARD REMOVAL



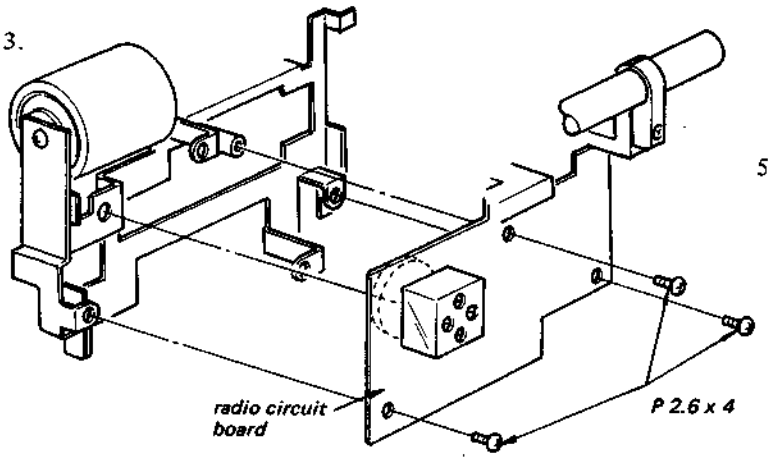
2-5. DIAL CORD STRINGING

Proceed in numerical order.

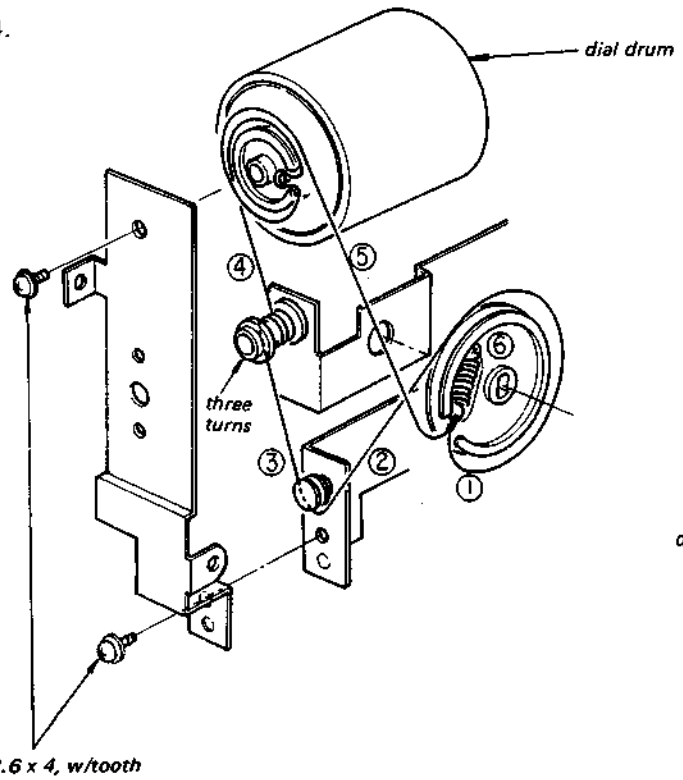
1. Remove the radio section according to the 2-3, RADIO SECTION REMOVAL on page 9.
2. Prepare a dial cord loop as shown.



3.

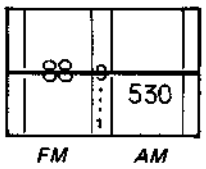


4.

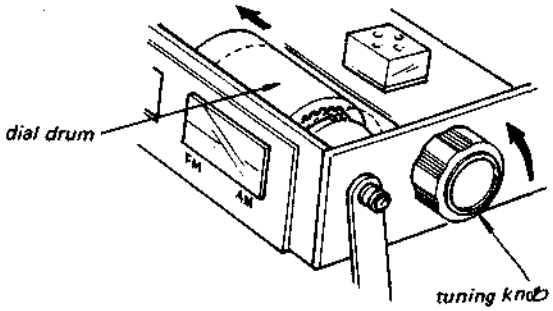


5. When reassembling the radio circuit board, turn the tuning shaft of tuning capacitor fully counterclockwise.

6.



Turn the tuning knob fully counter-clockwise, then pull the dial drum in the direction shown by the arrow and adjust 0 on the dial drum to the dial line as shown above.

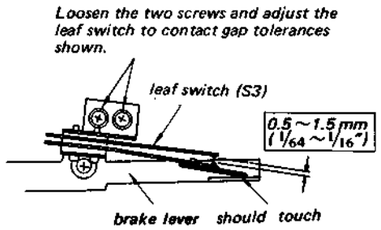


SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Leaf Switch (S3) Position Adjustment

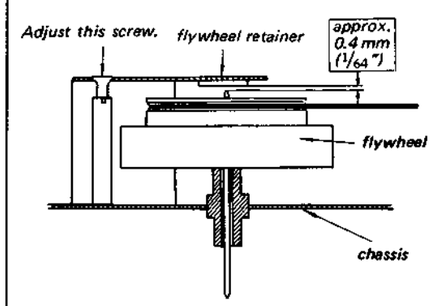
– in stop mode –



Note: After the adjustment, make sure that the leaf switch closes in playback, fast forward, and rewind modes.

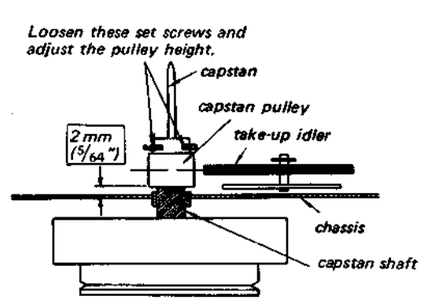
Flywheel Retainer Play Adjustment

– in stop mode –



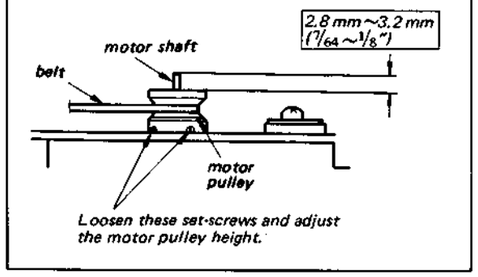
Capstan Pulley Height Adjustment

– in stop mode –



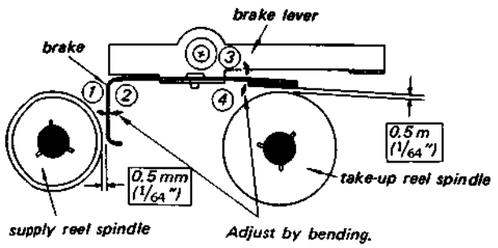
Motor Pulley Height Adjustment

– in stop mode –



Brake Adjustment

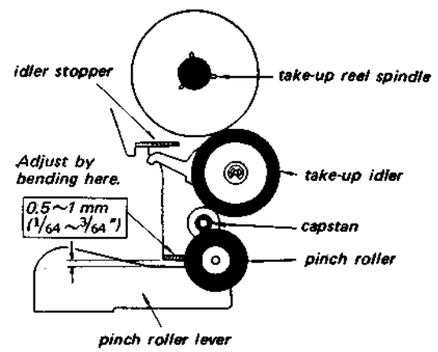
– in playback mode –



1. Place the unit in stop mode from playback mode. At this time the tape should slacken a little. To allow tape to slacken, bend the brake in the direction shown by arrow ④ if necessary.
2. Place the unit in stop mode from rewind mode. At this time the tape should slacken a little. To allow tape to slacken, bend the brake in the direction shown by arrow ① if necessary.
3. After the adjustments, make sure that the brake does not contact the reel spindle drums in playback, fast forward and rewind modes.

Pinch Roller Position Adjustment

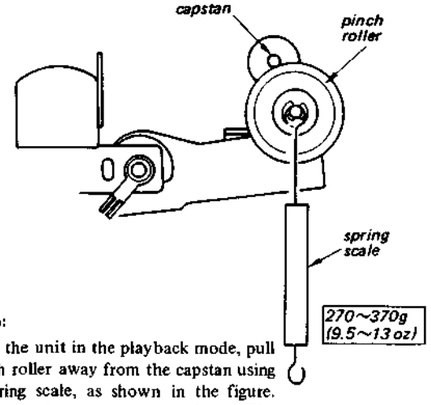
– in playback mode –



Note: After the adjustment, depress the forward button. At this time the take-up reel spindle should begin to rotate just before or at the moment that the pinch roller contacts the capstan. If necessary, adjust by bending the idler stopper.

Pinch Roller Pressure Measurement

– in playback mode –



Note:
With the unit in the playback mode, pull pinch roller away from the capstan using a spring scale, as shown in the figure. Allow pinch roller to return slowly. The pressure (spring scale tension) should be measured at the point where the pinch roller just contacts the capstan.

Torque Measurements

Appropriate values are as follows:

Playback torque	40~70 g·cm (0.56~0.98 oz·inch)
Fast forward torque	55~150 g·cm (0.77~2.0 oz·inch)
Rewind torque	55~150 g·cm (0.77~2.0 oz·inch)

3-2. ELECTRICAL ADJUSTMENTS AND MEASUREMENTS

PRECAUTION

1. Clean the following parts with alcohol moistened swab:
   - Record/Playback head
   - Erase head
   - Capstan
   - Pinch roller
   - Rubber belts
   - Idlers
2. Demagnetize record/playback head with a head demagnetizer.
   (Do not bring head demagnetizer close to erase head, and do not use magnetized screwdriver for adjustments).
3. After the adjustments, apply locking compound to adjusted parts.
4. Adjustments should be performed in the order listed in this service manual.
5. Adjustments and measurements should be performed with rated power supply voltage unless otherwise specified.

TAPE RECORDER SECTION

Test Equipment/Tools Required

audio oscillator (af osc)
VTVM
digital frequency counter or speed checker (SONY LFM-30)
1 kHz bandpass filter
10 kΩ resistor, 8Ω resistor
attenuator
SONY test tapes
- P-4-A81 (6.3 kHz, −10 dB)
- P-4-L81 (333 Hz, 0 dB)
- SPC-4 (1 kHz, 0 dB)
- WS-48 (3 kHz, 0 dB)

blank tape cassette (completely erased)
wow meter

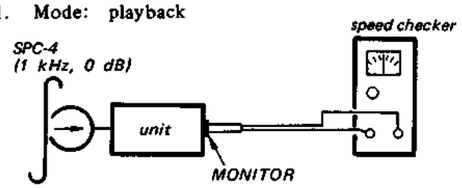
Tape Speed Adjustment

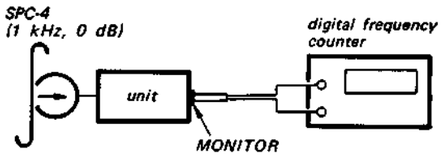
Control/Switch Setting:

RADIO switch:	OFF
TONE switch:	HIGH
VOLUME control:	at any position so that frequency counter or speed checker can work.
Power source:	6 V DC

Procedure:

1. Mode: playback



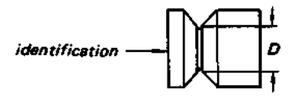


Specification: −2.5~+3% (975~1,030 Hz)
Frequency difference between beginning and end is within 10 Hz.

2. If necessary, replace motor pulley.

MOTOR PULLEY

Identification			
Part No.	3-580-038-01	3-580-037-01	3-580-039-01
D	4.67 mm	4.72 mm	4.78 mm
Tape Speed	slower ⟵ ⟶ faster		



Note: After replacing motor pulley, perform Motor Pulley Height Adjustment on page 12.

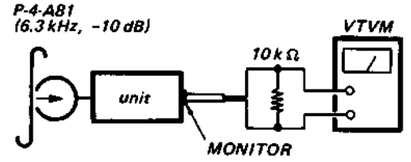
Head Azimuth Adjustment

Control/Switch Setting:

RADIO switch:	OFF
TONE switch:	HIGH
VOLUME control:	mechanical mid

Procedure:

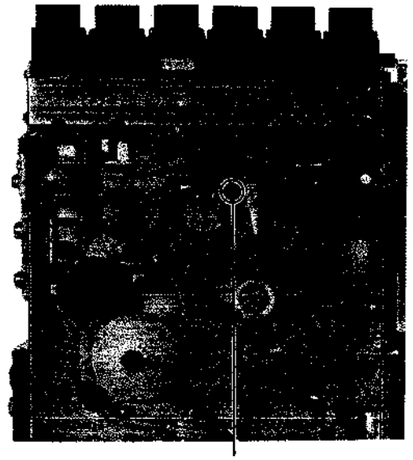
1. Mode: playback



2. Turn adjusting screw for the highest VTVM reading.

Note: Several peaks may appear, take the highest.

Adjustment Location:



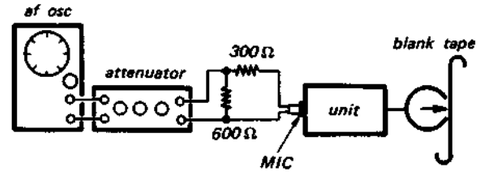
Overall Frequency Response Measurement

Control/Switch Setting:

RADIO switch:	OFF
TONE switch:	HIGH

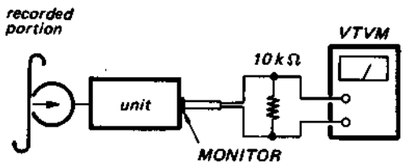
Procedure:

1. Mode: record



1. 1 kHz, −80 dB (77.5μV)
2. 200 Hz, −80 dB (77.5μV)
3. 6 kHz, −80 dB (77.5μV)

2. Mode: playback



Recorded signal	VTVM reading
1 kHz	Adjust VOLUME control for −10 dB (0.25V)
200 Hz	−17 ± 3 dB (77.5~155 mV)
6 kHz	−14 dB (155 mV) or greater

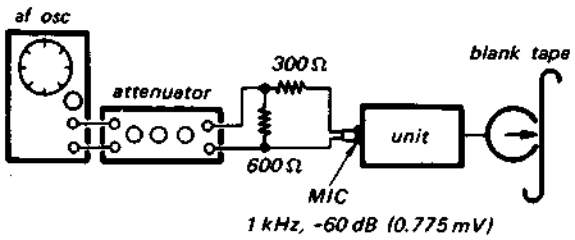
Overall Signal-to-Noise Ratio Measurement

Control/Switch Setting:

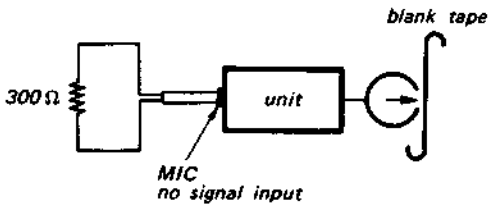
RADIO switch:	OFF
TONE switch:	HIGH

Procedure:

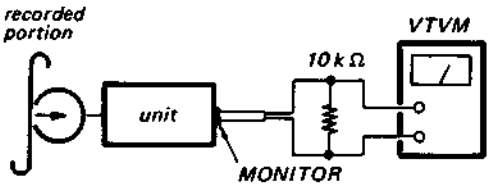
1. Mode: record



2. Mode: record



3. Mode: playback



Recorded signal	VTVM reading
1 kHz	Adjust VOLUME control for 0 dB (0.775 V)
no signal	less than -35 dB (13.8 mV) for dc power source less than -30 dB (24.5 mV) for ac power source

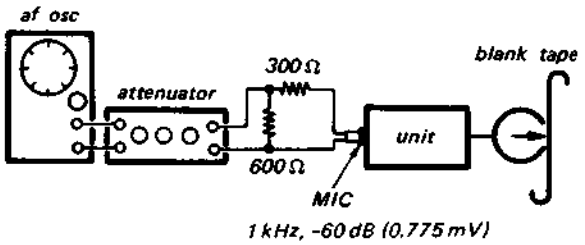
Erase Ratio Measurement

Control/Switch Setting:

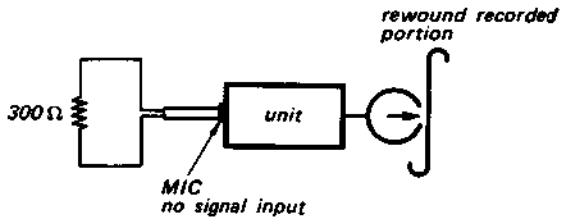
RADIO switch:	OFF
TONE switch:	HIGH

Procedure:

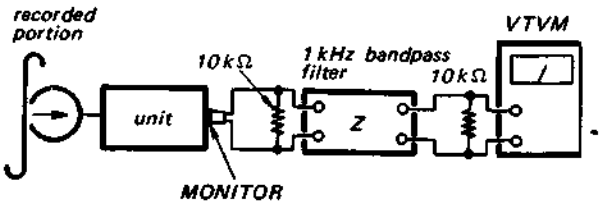
1. Mode: record



2. Rewind half of the recorded portion.
3. Mode: record



4. Mode: playback



Recorded signal	VTVM reading
1 kHz	Adjust VOLUME control for 0 dB (0.775 V)
no signal	-55 dB (1.4 mV) or less

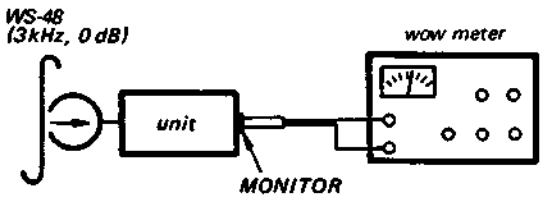
Wow and Flutter Measurement

Control/Switch Setting:

RADIO switch:	OFF
TONE switch:	HIGH
VOLUME control:	mechanical mid

Procedure:

1. Mode: playback



Specification:

0.4% (RMS) or less

Note: Measure wow and flutter for beginning, midway and end portion of WS-48.

RADIO SECTION

Test Equipment/Tools Required:

AM rf signal generator
FM rf signal generator
FM i-f sweep/marker generator
oscilloscope
VOM
10 kΩ resistor (1/4 W)

Note: 1. Modulation
AM: 30% amplitude modulation by 400 Hz signal.
FM: ±22.5 kHz frequency modulation by 400 Hz signal.

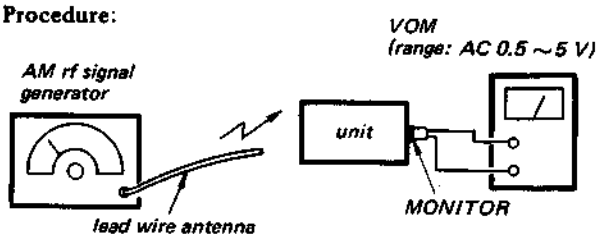
2. AM, FM rf signal generator output level should be as low as possible for following adjustments.

AM I-f Alignment

Control/Switch Setting:

RADIO switch:	AM
VOLUME control:	mechanical mid
TONE switch:	HIGH

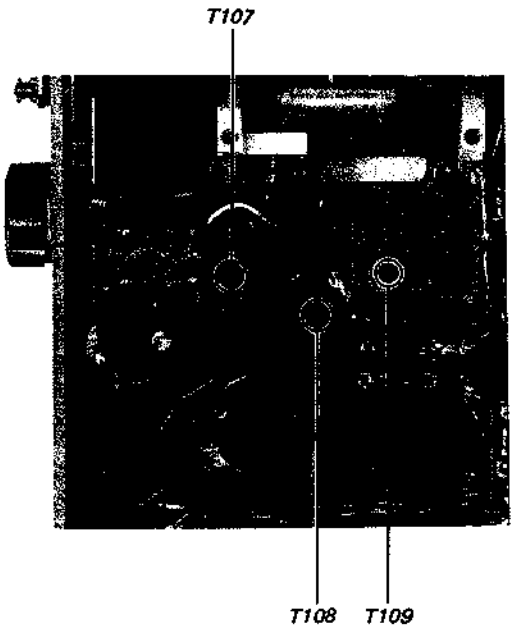
Procedure:



455 kHz (modulated 30% by 400 Hz signal)

Adjust	VOM reading
T107, T108, T109	maximum

Adjustment Location:

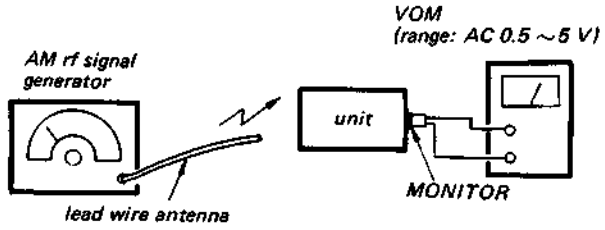


AM Frequency Coverage and Tracking Adjustments

Control/Switch Setting:

RADIO switch:	AM
VOLUME control:	mechanical mid
TONE switch:	HIGH

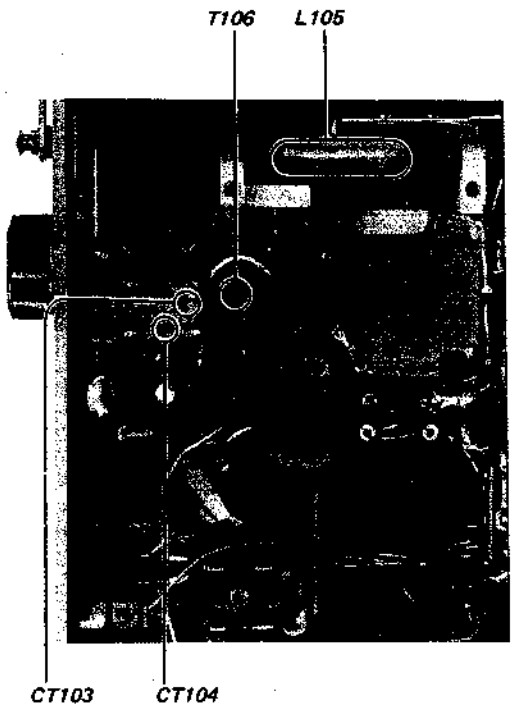
Procedure:



Adjustment	step	signal frequency	tuning knob	adjust	VOM reading
Frequency Coverage	1	520 kHz	fully counterclockwise	T106	maximum
	2	1,650 kHz	fully clockwise	CT104	maximum
Tracking	1	600 kHz	tune to 600 kHz	L105	maximum
	2	1,400 kHz	tune to 1,400 kHz	CT103	maximum

Note: Repeat above steps two or three times until desired result is obtained.

Adjustment Location:

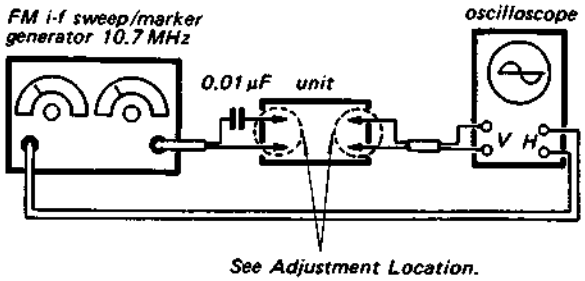


FM i-f Alignment and Discriminator Adjustment

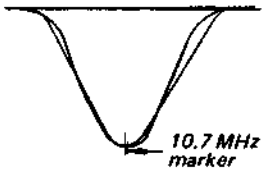
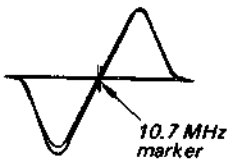
Control/Switch Setting:

RADIO switch:	FM
VOLUME control:	minimum (fully leftward)

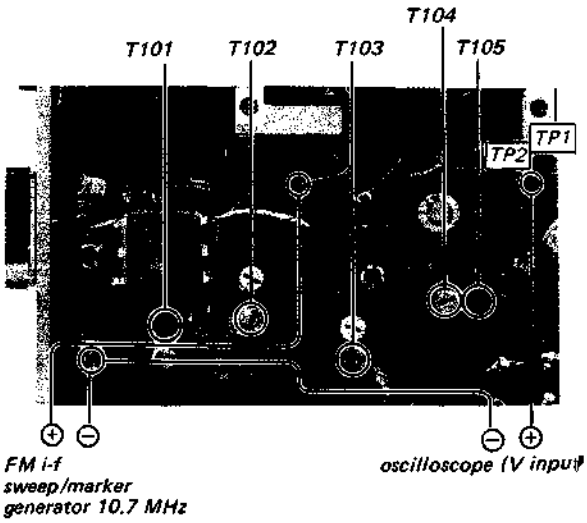
Procedure:



See Adjustment Location.

Step	Adjust	Oscilloscope
1	Turn T105 fully counterclockwise.	
2	T101 T102 T103 T104	 10.7 MHz marker — maximum amplitude
3	T105	 10.7 MHz marker — symmetry

Adjustment Location:

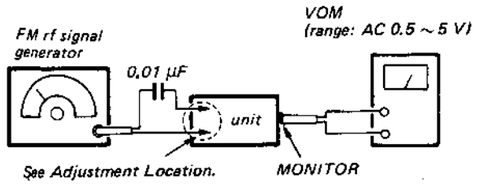


FM Frequency Coverage and Tracking Adjustments

Control/Switch Setting:

RADIO switch:	FM
TONE switch:	HIGH
VOLUME control:	mechanical mid

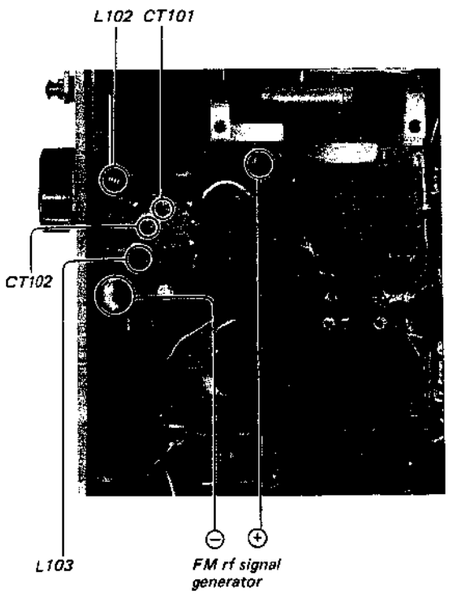
Procedure:



Adjustment	step	signal frequency	tuning knob	adjust	VOM reading
Frequency Coverage	1	87.5 MHz	fully counterclockwise	L103	maximum
	2	109 MHz	fully clockwise	CT102	maximum
Tracking	1	90 MHz	tune to 90 MHz	L102	maximum
	2	106 MHz	tune to 106 MHz	CT101	maximum

Note: Repeat above steps two or three times until desired result is obtained.

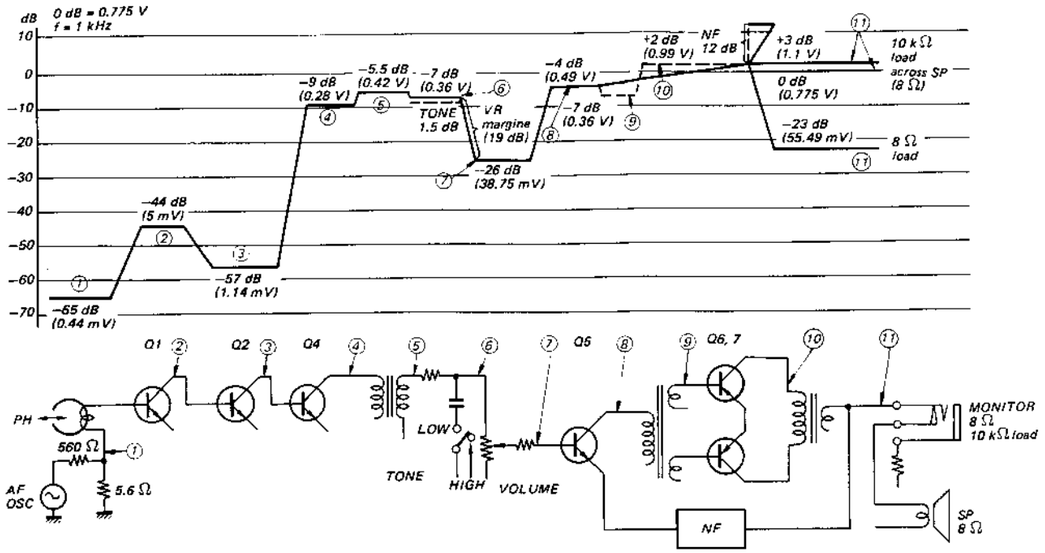
Adjustment Location:



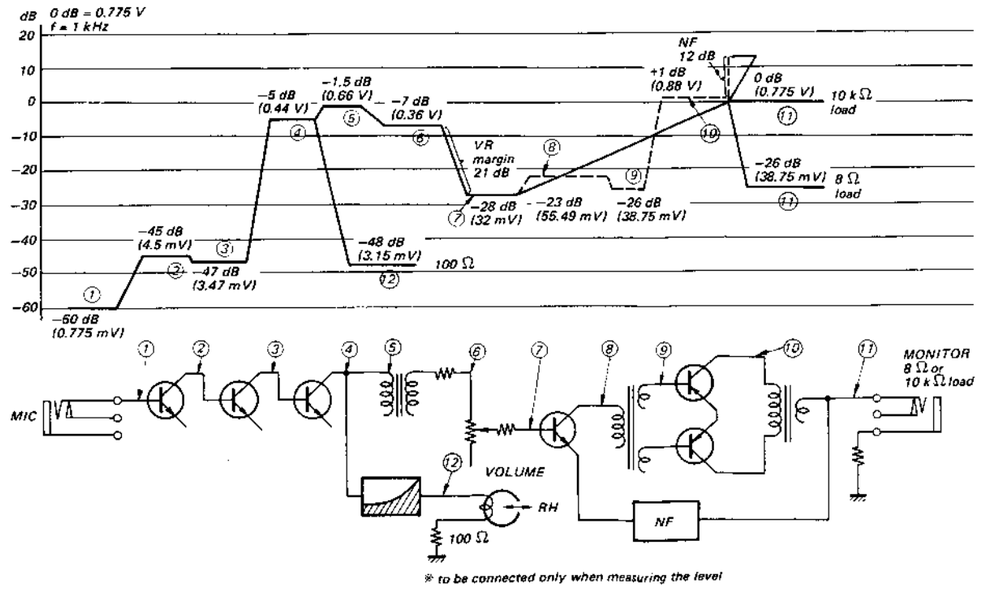
SECTION 4
DIAGRAMS

4-1. LEVEL DIAGRAMS

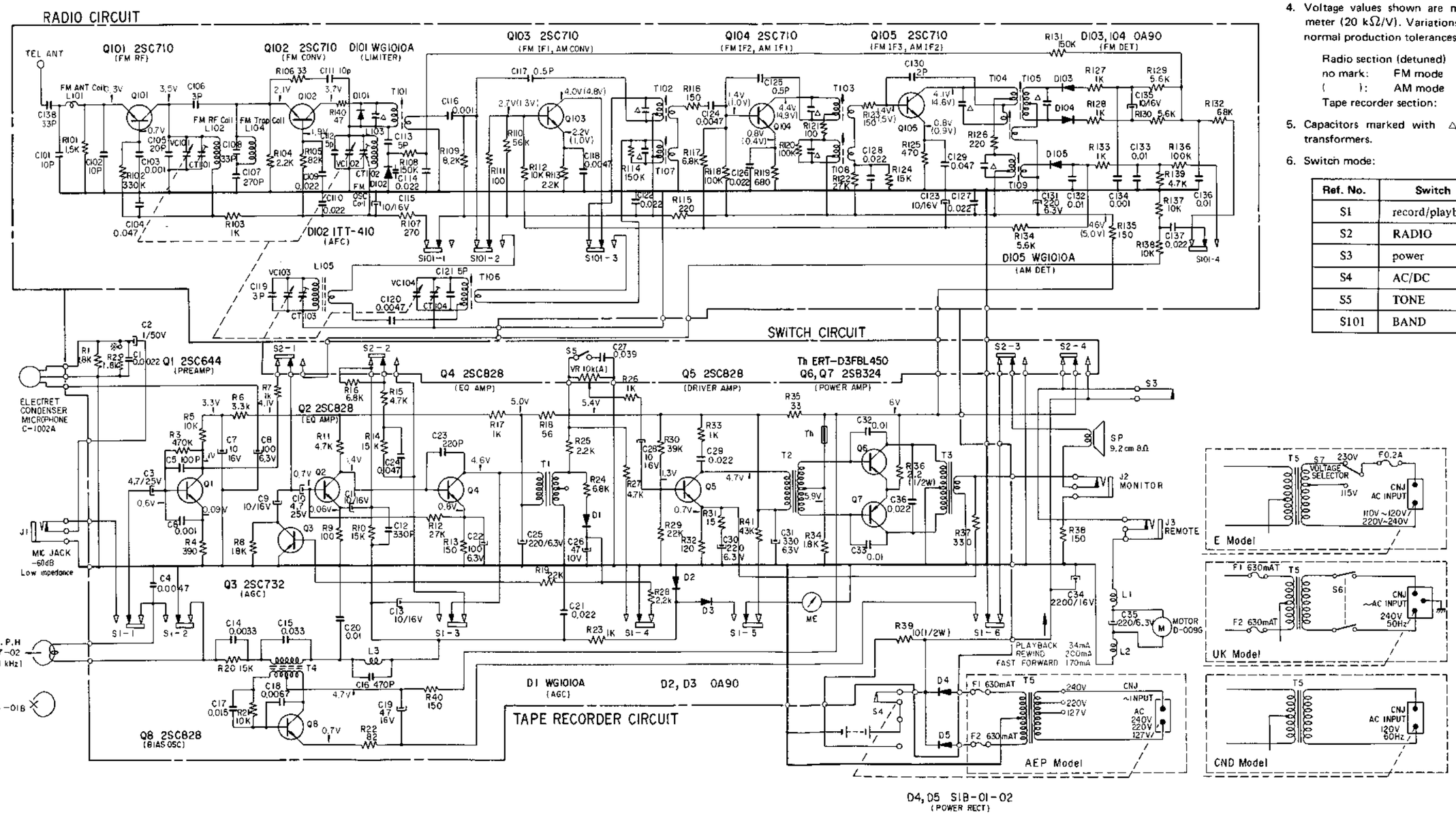
Playback Mode



Record Mode



4-2. SCHEMATIC DIAGRAM



Note: 1. Resistors and capacitors are in Ω and μF, unless otherwise specified.

2. The letter (A) suffixed to variable resistor value indicates the characteristics.

3. The portion marked with ※ should be connected when red marked microphone is used.

4. Voltage values shown are measured with a voltmeter (20 kΩ/V). Variations may be noted due to normal production tolerances.

   Radio section (detuned)
   no mark: FM mode
   ( ): AM mode
   Tape recorder section: record mode

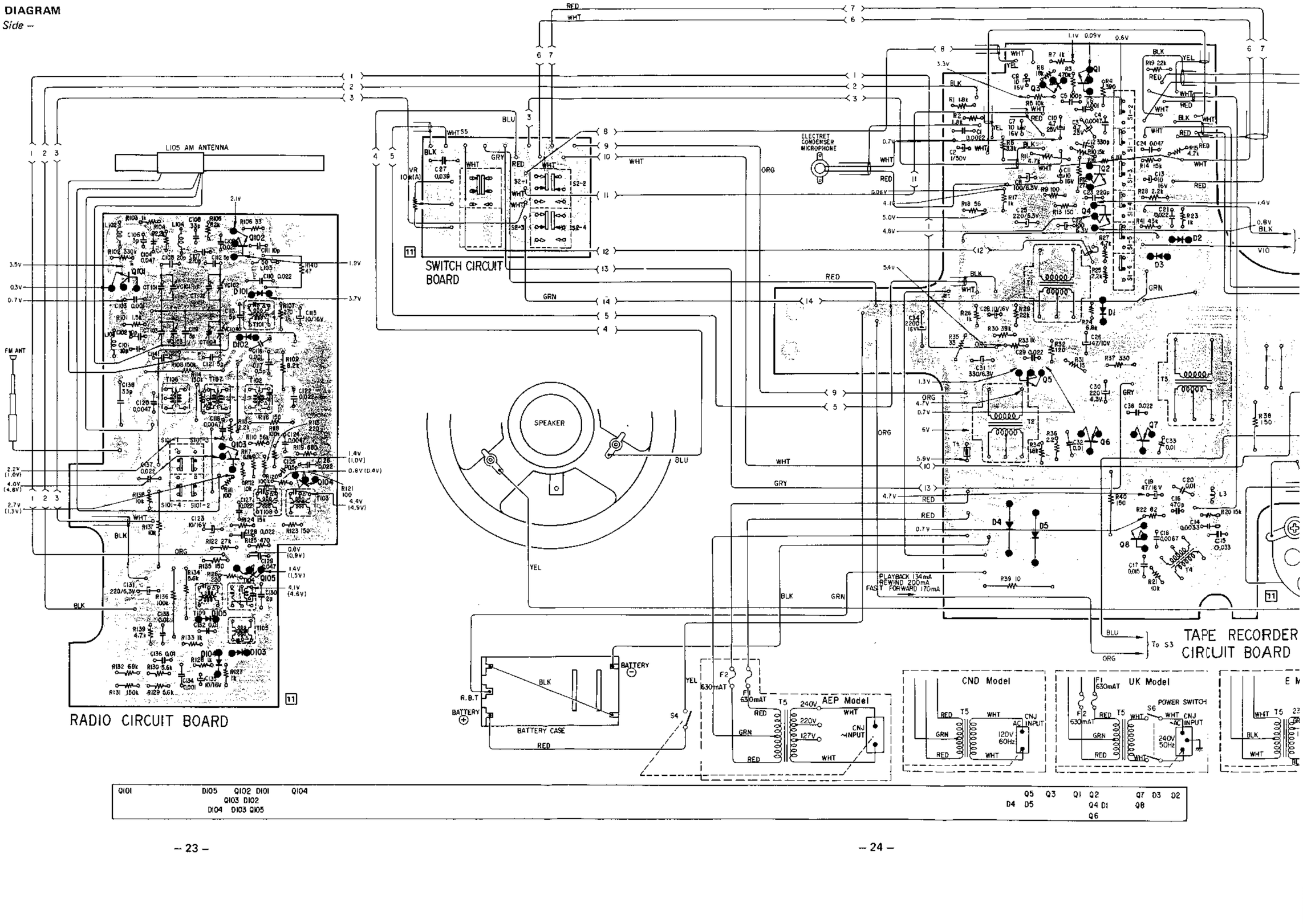
5. Capacitors marked with △ are included in i-f transformers.

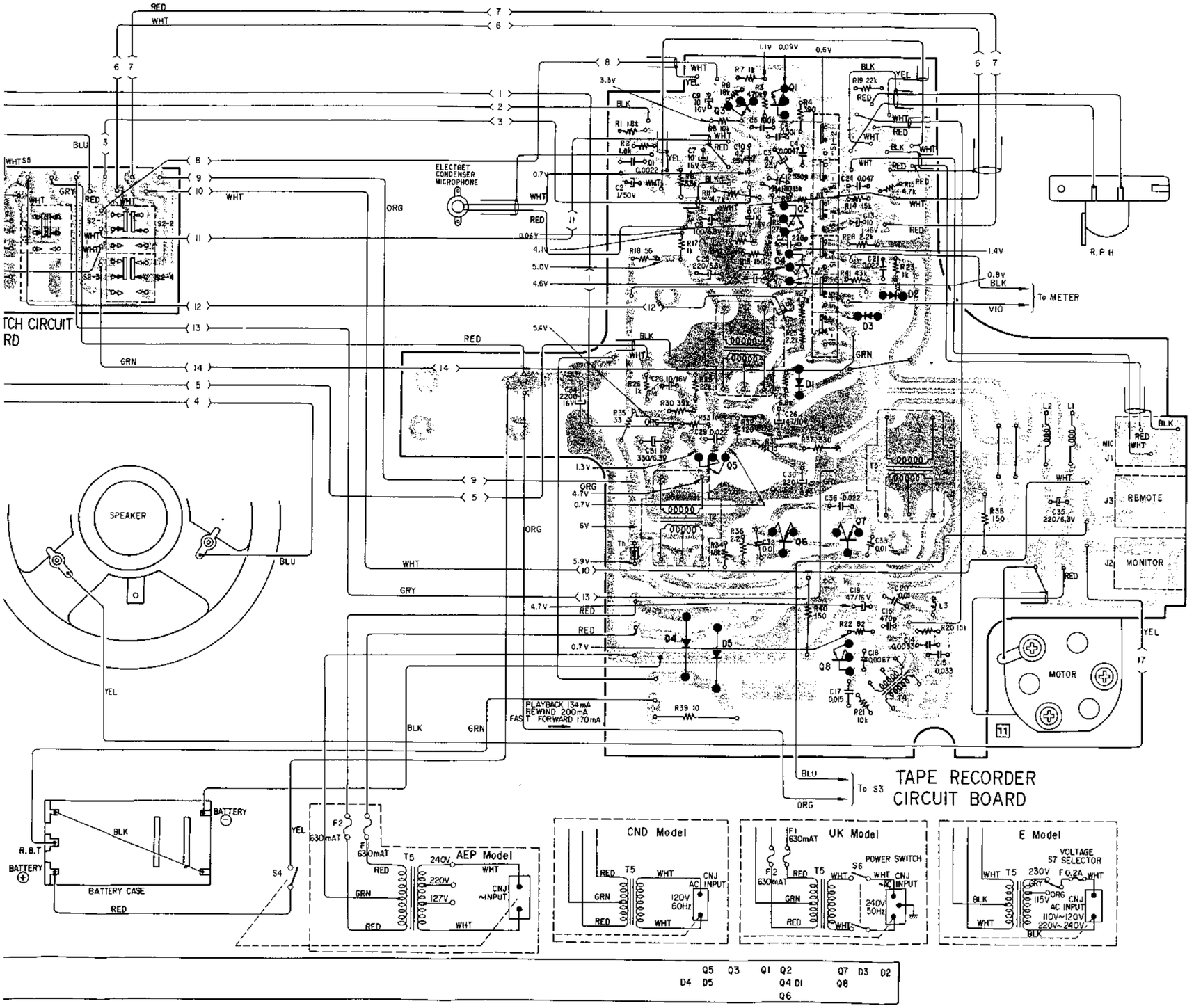
6. Switch mode:

Ref. No.	Switch	Mode
S1	record/playback	playback
S2	RADIO	OFF
S3	power	ON
S4	AC/DC	AC
S5	TONE	HIGH
S101	BAND	FM

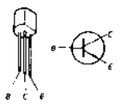
4-3. MOUNTING DIAGRAM

– Conductor Side –

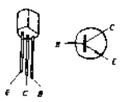




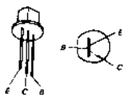
Q1: 2SC644
Q101, 102, 103, 104, 105: 2SC710



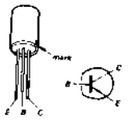
Q2, 4, 5, 8: 2SC828



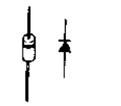
Q3: 2SC732



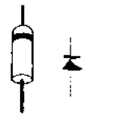
Q6, 7: 2SB324



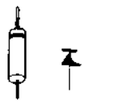
D1, 101, 105: WG1010A
D102: 1TT-410



D2, 3, 103, 104: 0A90



D4, 5: SIB01-02

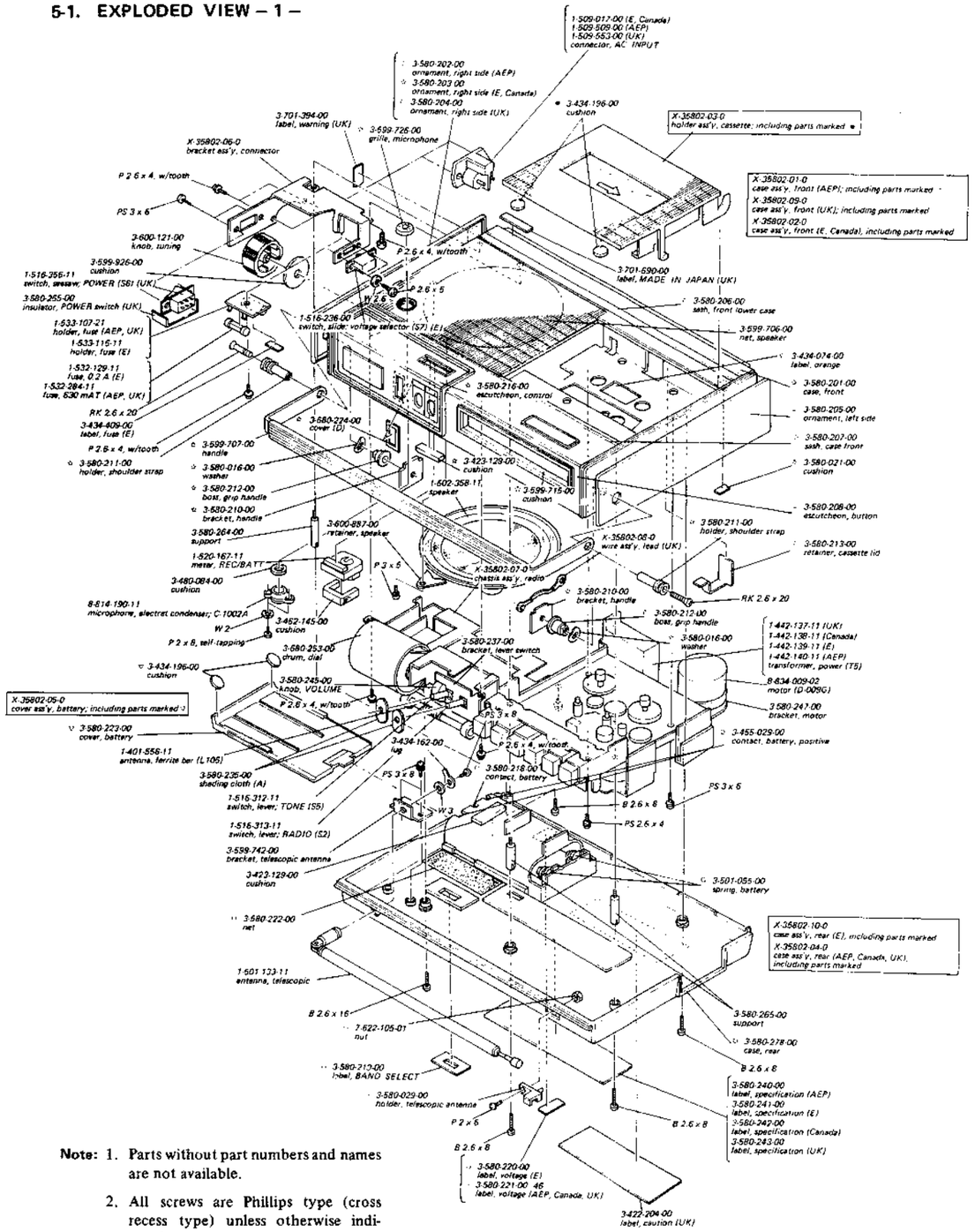


MEMO

SECTION 5

EXPLODED VIEWS AND PACKING

5-1. EXPLODED VIEW – 1 –



Note: 1. Parts without part numbers and names are not available.

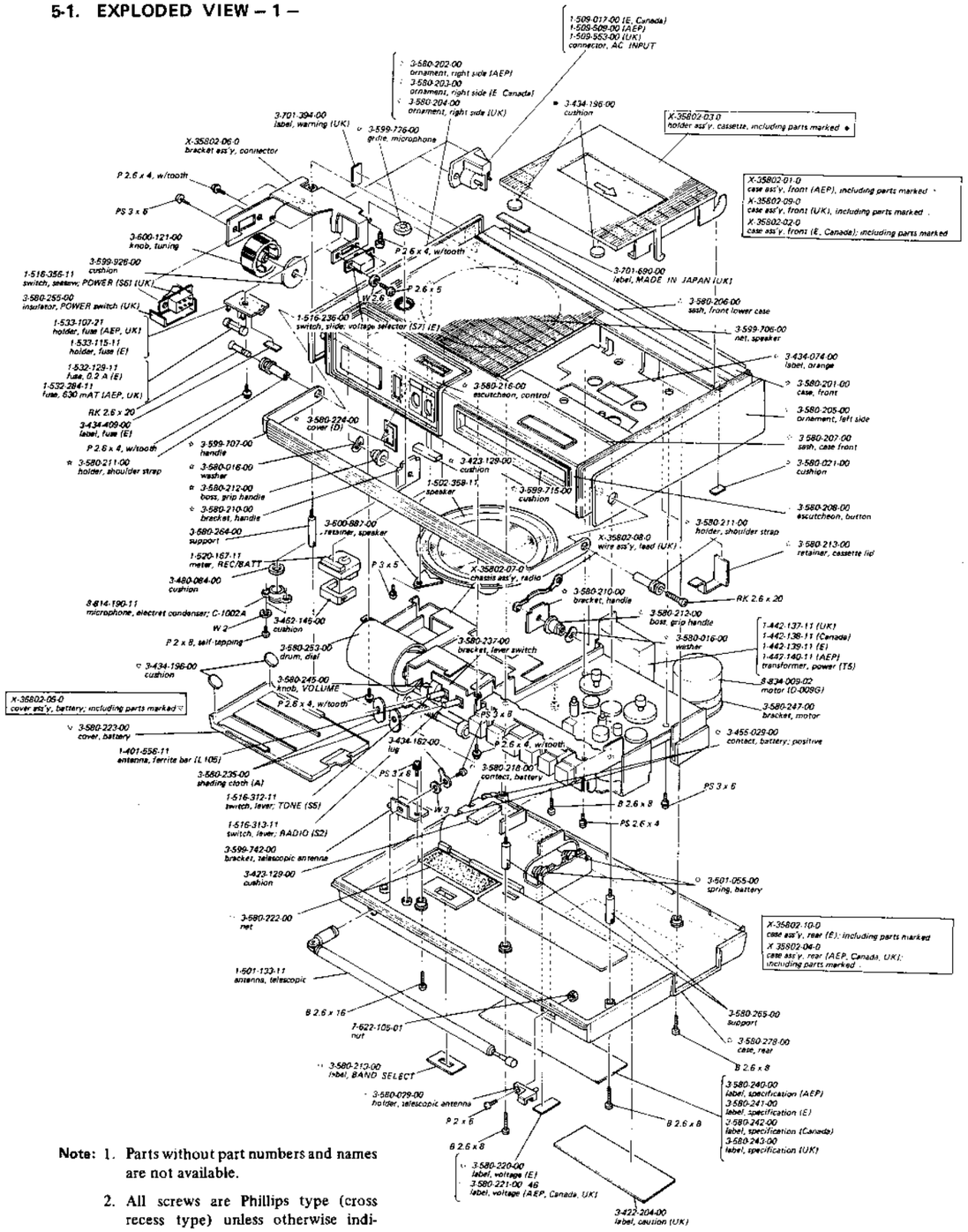
2. All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

5-2. EX

SECTION 5

EXPLODED VIEWS AND PACKING

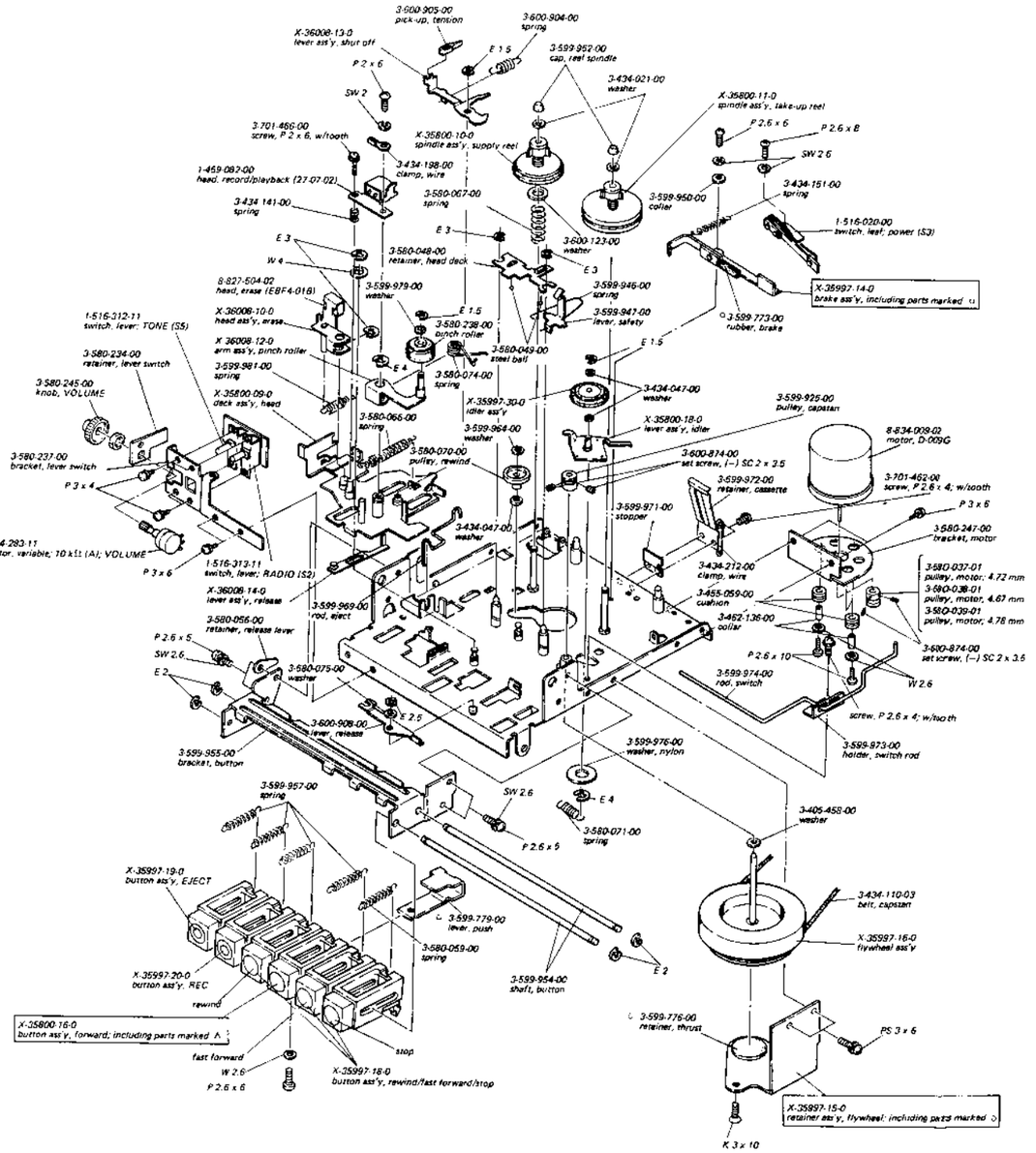
5-1. EXPLODED VIEW – 1 –



Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

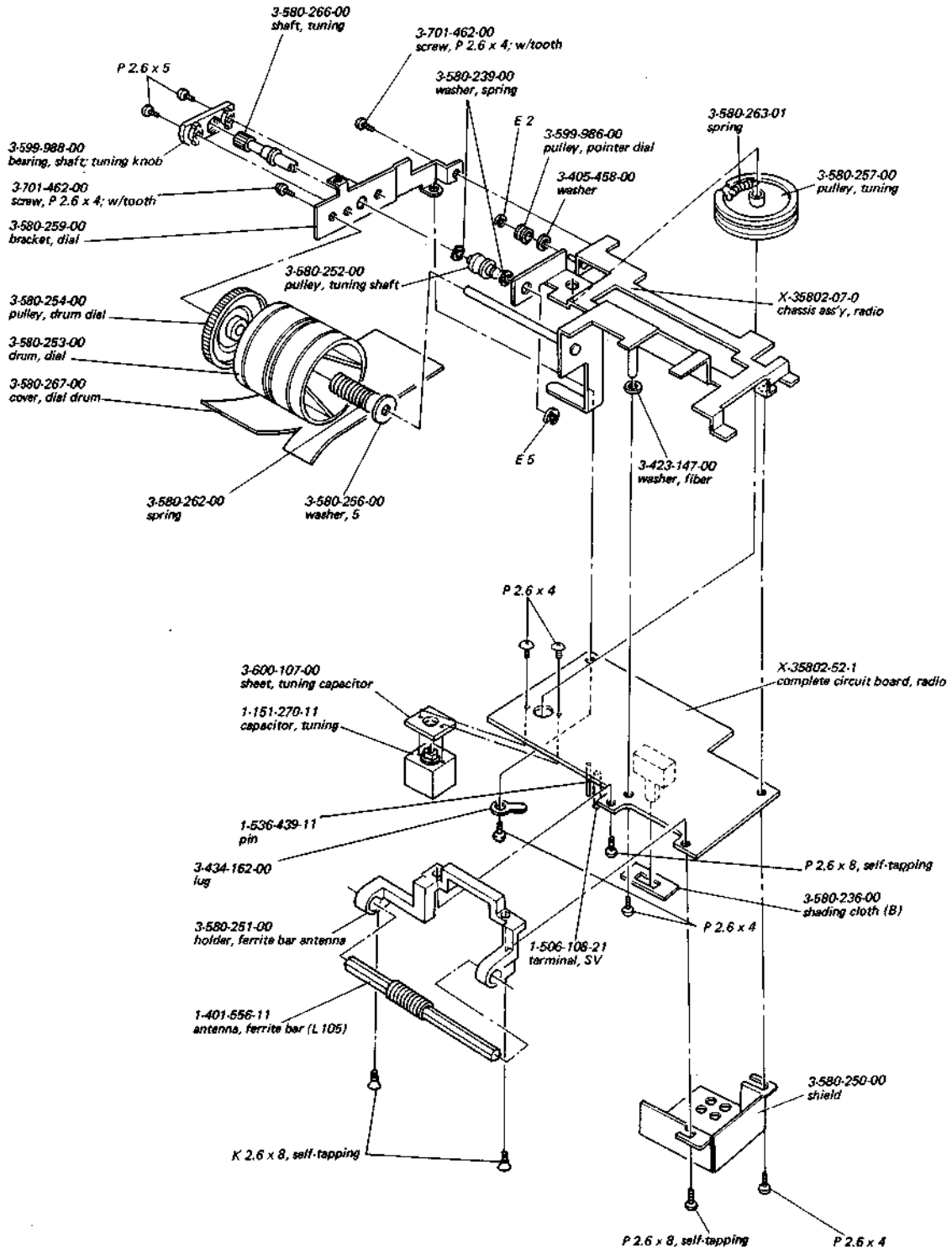
5-2. EXPLODED VIEW – 2 –



Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

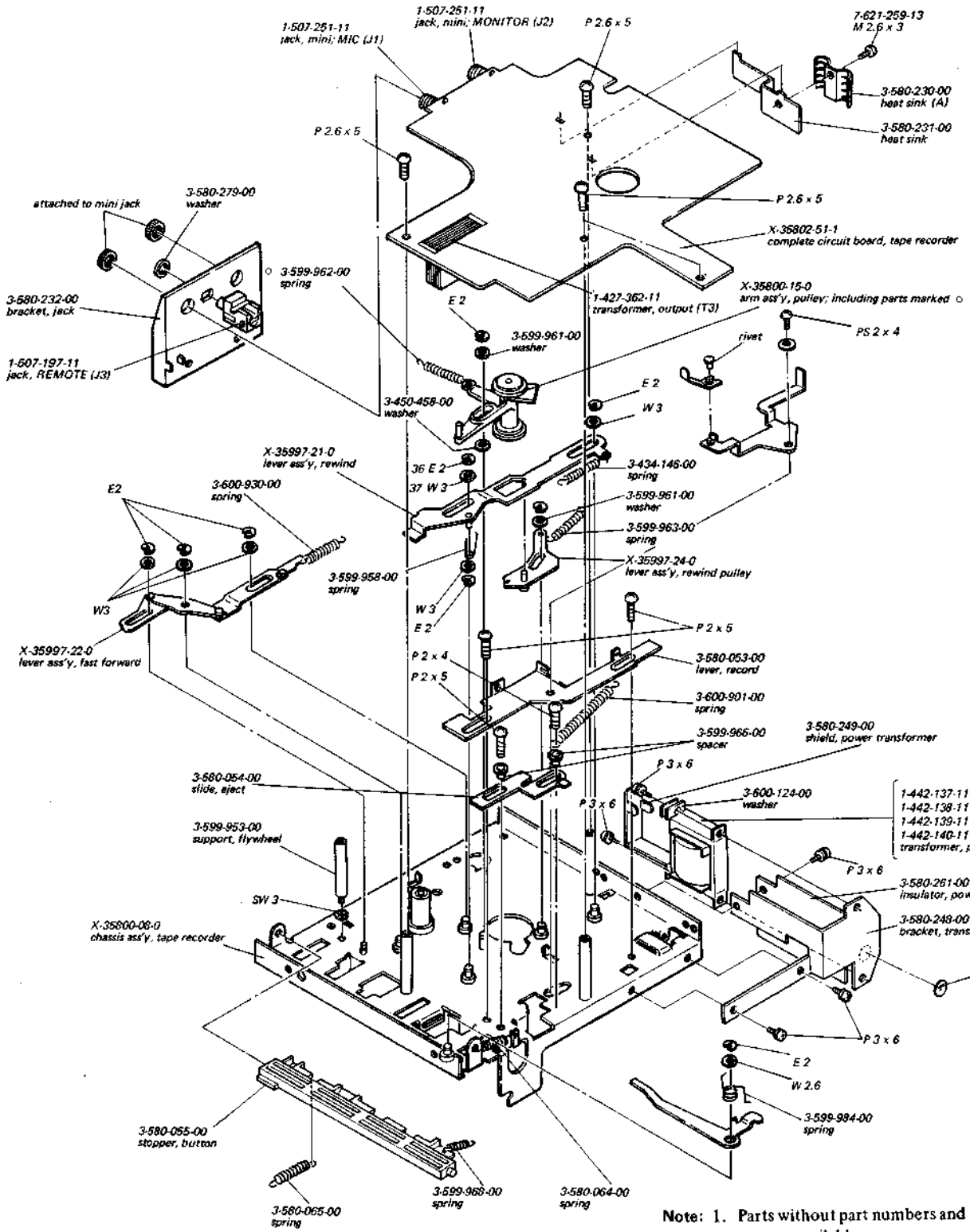
5-3. EXPLODED VIEW – 3 –



Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

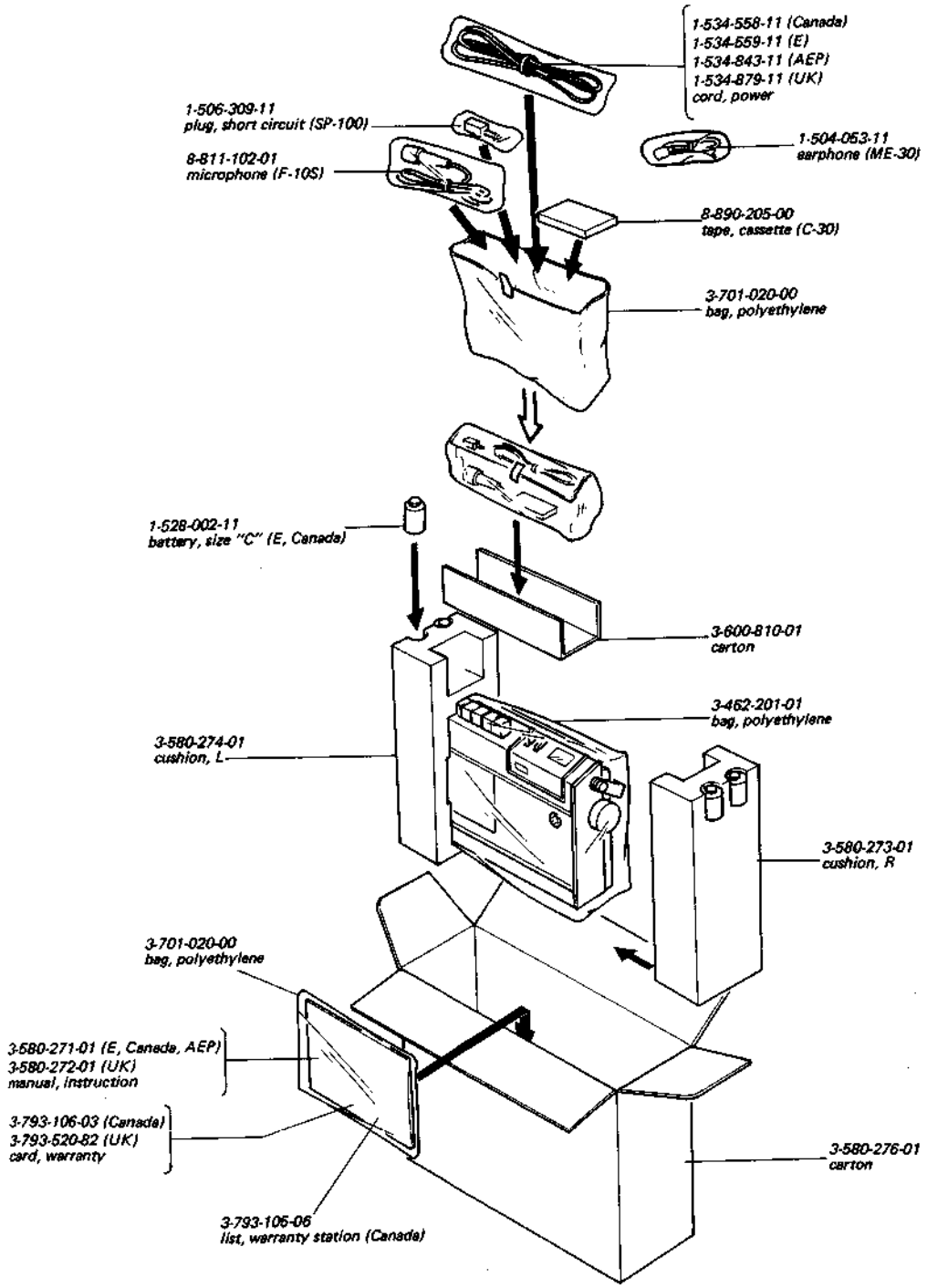
5-4. EXPLODED VIEW – 4 –



Note: 1. Parts without part numbers and names are not available.

2. All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

5-5. PACKING



Note: Parts without part numbers and names are not available.

SECTION 6

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	COMPLETE CIRCUIT BOARDS	
	X-35802-51-1	tape recorder
	X-35802-52-1	radio
	X-35802-53-1	switch
	SEMICONDUCTORS	
Q1		transistor 2SC644
Q2		transistor 2SC828
Q3		transistor 2SC732
Q4		transistor 2SC828
Q5		transistor 2SC828
Q6		transistor 2SB324
Q7		transistor 2SB324
Q8		transistor 2SC828
Q101		transistor 2SC710
Q102		transistor 2SC710
Q103		transistor 2SC710
Q104		transistor 2SC710
Q105		transistor 2SC710
D1		diode WG1010A
D2		diode 0A90
D3		diode 0A90
D4		diode S1B-01-02
D5		diode S1B-01-02
D101		diode WG1010A
D102		diode 1TT-410
D103		diode 0A90
D104		diode 0A90
D105		diode WG1010A
Th		thermistor ERT-D3FBL450
	COILS	
L1	1-420-808-31	choke, 1.65 μH
L2	1-420-808-31	choke, 1.65 μH
L3	1-407-763-11	microinductor, 33 mH
L101	1-420-808-21	FM ant
L102	1-405-614-11	FM rf
L103	1-405-614-11	FM osc
L104	1-409-261-11	FM trap
L105	1-401-556-11	antenna, ferrite bar
	TRANSFORMERS	
T1	1-423-197-11	driver
T2	1-423-197-11	driver
T3	1-427-362-11	output
T4	1-433-155-11	bias osc

Ref. No.	Part No.	Description
T5	1-442-137-11	power (UK)
	1-442-138-11	power (Canada)
	1-442-139-11	power (E)
	1-442-140-11	power (AEP)
T101	1-403-920-11	FM i-f
T102	1-403-917-11	FM i-f
T103	1-403-917-11	FM i-f
T104	1-403-918-11	FM discriminator
T105	1-403-919-11	FM discriminator
T106	1-405-613-11	AM osc
T107	1-403-923-11	AM i-f
T108	1-403-922-11	AM i-f
T109	1-403-921-11	AM i-f

CAPACITORS

All capacitors are μF unless otherwise indicated. (p = μμ, elect = electrolytic)

V C	1-151-270-11	tuning		
C1	1-105-505-12	0.0022	50 V	mylar
C2	1-121-391-11	1	50 V	elect
C3	1-121-464-11	4.7	25 V	elect
C4	1-105-509-12	0.0047	50 V	mylar
C5	1-101-896-11	100 p	50 V	ceramic
C6	1-101-918-11	0.001	25 V	ceramic
C7	1-121-398-11	10	16 V	elect
C8	1-121-491-11	100	6.3 V	elect
C9	1-121-398-11	10	16 V	elect
C10	1-121-464-11	4.7	25 V	elect
C11	1-121-398-11	10	16 V	elect
C12	1-102-820-11	330 p	50 V	ceramic
C13	1-121-398-11	10	16 V	elect
C14	1-105-507-12	0.0033	50 V	mylar
C15	1-105-519-12	0.033	50 V	mylar
C16	1-103-617-11	470 p	125 V	styrol
C17	1-105-515-12	0.015	50 V	mylar
C18	1-105-511-12	0.0068	50 V	mylar
C19	1-121-352-11	47	16 V	elect
C20	1-101-923-11	0.01	25 V	ceramic
C21	1-101-924-11	0.022	25 V	ceramic
C22	1-121-491-11	100	6.3 V	elect
C23	1-102-817-11	220 p	50 V	ceramic
C24	1-105-521-12	0.047	50 V	mylar
C25	1-121-420-11	220	6.3 V	elect
C26	1-121-487-11	47	6.3 V	elect
C27	1-105-520-12	0.039	35 V	mylar
C28	1-121-398-11	10	16 V	elect
C29	1-101-924-11	0.022	25 V	ceramic
C30	1-121-420-11	220	6.3 V	elect
C31	1-121-751-11	330	6.3 V	elect

Ref. No.	Part No.	Description			
C32	1-105-513-12	0.01		50 V	mylar
C33	1-101-923-11	0.01		25 V	ceramic
C34	1-121-659-11	2200		16 V	elect
C35	1-121-420-11	220		6.3 V	elect
C36	1-101-924-11	0.022		25 V	ceramic
C101	1-101-959-11	10 p		50 V	ceramic
C102	1-101-959-11	10 p	± 0.5 p	50 V	ceramic
C103	1-101-918-11	0.001		25 V	ceramic
C104	1-101-925-11	0.047		25 V	ceramic
C105	1-102-896-11	20 p		50 V	ceramic
C106	1-101-187-11	3 p	± 0.5 p	50 V	ceramic
C107	1-102-819-11	270 p		50 V	ceramic
C108	1-101-872-11	33 p		50 V	ceramic
C109	1-101-924-11	0.022		25 V	ceramic
C110	1-101-924-11	0.022		25 V	ceramic
C111	1-101-959-11	10 p	± 0.5 p	50 V	ceramic
C112	1-101-955-11	5 p	± 0.5 p	50 V	ceramic
C113	1-101-955-11	5 p	± 0.5 p	50 V	ceramic
C114	1-101-924-11	0.022		25 V	ceramic
C115	1-121-192-11	10		16 V	elect
C116	1-101-918-11	0.001		25 V	ceramic
C117	1-101-837-11	0.5 p	± 0.25 p	50 V	ceramic
C118	1-105-509-12	0.0047		50 V	mylar
C119	1-101-187-11	3 p	± 0.5 p	50 V	ceramic
C120	1-105-509-12	0.0047		50 V	mylar
C121	1-101-955-11	5 p	± 0.5 p	50 V	ceramic
C122	1-101-924-11	0.022		25 V	ceramic
C123	1-121-192-11	10		16 V	elect
C124	1-101-922-11	0.0047		25 V	ceramic
C125	1-101-837-11	0.5 p	± 0.25 p	50 V	ceramic
C126	1-101-924-11	0.022		25 V	ceramic
C127	1-101-924-11	0.022		25 V	ceramic
C128	1-101-924-11	0.022		25 V	ceramic
C129	1-101-925-11	0.047		25 V	ceramic
C130	1-101-177-11	2 p	± 0.25 p	50 V	ceramic
C131	1-121-419-11	220		6.3 V	elect
C132	1-105-513-12	0.01		50 V	mylar
C133	1-105-513-12	0.01		50 V	mylar
C134	1-105-501-12	0.001		50 V	mylar
C135	1-121-192-11	10		16 V	elect
C136	1-105-513-12	0.01		50 V	mylar
C137	1-101-924-11	0.022		25 V	ceramic
C138	1-101-872-11	33 p		50 V	ceramic

RESISTORS

All resistors are ¼ W, carbon type and in Ω unless otherwise indicated. (k = 1,000)

Ref. No.	Part No.	Description		
R1	1-242-679-11	1.8 k		
R2	1-242-679-11	1.8 k		
R3	1-242-737-11	470 k		
R4	1-242-663-11	390		
R5	1-242-697-11	10 k		
R6	1-242-685-11	3.3 k		
R7	1-242-673-11	1 k		
R8	1-242-703-11	18 k		
R9	1-242-649-11	100		
R10	1-242-701-11	15 k		
R11	1-242-689-11	4.7 k		
R12	1-242-707-11	27 k		
R13	1-242-653-11	150		
R14	1-242-701-11	15 k		
R15	1-242-689-11	4.7 k		
R16	1-242-693-11	6.8 k		
R17	1-242-673-11	1 k		
R18	1-242-643-11	56		
R19	1-242-705-11	22 k		
R20	1-242-701-11	15 k		
R21	1-242-697-11	10 k		
R22	1-242-647-11	82		
R23	1-242-673-11	1 k		
R24	1-242-693-11	6.8 k		
R25	1-242-681-11	2.2 k		
R26	1-242-678-11	1 k		
R27	1-242-689-11	4.7 k		
R28	1-242-681-11	2.2 k		
R29	1-242-705-11	22 k		
R30	1-242-711-11	39 k		
R31	1-242-829-11	15		
R32	1-242-651-11	120		
R33	1-242-673-11	1 k		
R34	1-242-679-11	1.8 k		
R35	1-242-637-11	33		
R36	1-202-509-31	2.2	½ W	composition
R37	1-242-661-11	330		
R38	1-242-653-11	150		
R39	1-202-525-31	10	½ W	composition
R40	1-244-653-11	150		
R41	1-242-713-11	43 k		
R101	1-242-677-11	1.5 k		
R102	1-242-733-11	330 k		
R103	1-242-673-11	1 k		
R104	1-242-681-11	2.2 k		
R105	1-242-719-11	82 k		
R106	1-242-637-11	33		
R107	1-242-659-11	270		
R108	1-242-725-11	150 k		
R109	1-242-623-11	8.2 k		
R110	1-242-715-11	56 k		
R111	1-242-649-11	100		
R112	1-242-697-11	10 k		
R113	1-242-681-11	2.2 k		

Ref. No.	Part No.	Description
R114	1-244-725-11	150 k
R115	1-242-657-11	220
R116	1-242-653-11	150
R117	1-242-693-11	6.8 k
R118	1-242-721-11	100 k
R119	1-242-669-11	680
R120	1-242-721-11	100 k
R121	1-242-649-11	100
R122	1-242-707-11	27 k
R123	1-242-653-11	150
R124	1-242-701-11	15 k
R125	1-242-665-11	470
R126	1-242-657-11	220
R127	1-242-673-11	1 k
R128	1-242-673-11	1 k
R129	1-242-691-11	5.6 k
R130	1-242-691-11	5.6 k
R131	1-242-725-11	150 k
R132	1-242-717-11	68 k
R133	1-242-673-11	1 k
R134	1-242-691-11	5.6 k
R135	1-242-653-11	150
R136	1-244-722-11	100 k
R137	1-244-697-11	10 k
R138	1-242-697-11	10 k
R139	1-242-689-11	4.7 k
R140	1-242-641-11	47
VR	1-224-283-11	variable, 10 k (A); VOLUME

SWITCHES

S1	1-514-978-11	slide, record/playback
S2	1-516-313-11	lever, RADIO
S3	1-516-020-00	leaf, power
S4		included in AC INPUT connector
S5	1-516-312-11	lever, TONE
S6	1-516-356-11	seesaw, POWER (UK)
S7	1-516-236-00	slide, voltage selector (E)
S101	1-516-314-11	slide, BAND SELECT

JACKS

J1	1-507-251-11	mini, MIC
J2	1-507-251-11	mini, MONITOR
J3	1-507-197-11	REMOTE

MISCELLANEOUS

R.P.H	1-459-082-00	head, record/playback; 27-07-02
E.H	8-827-504-02	head, erase; EBF4-01B
TEL ANT	1-501-133-11	antenna, telescopic
SP	1-502-358-11	speaker 9.2 cm 8 ohms
	1-506-108-21	terminal, SV
CNJ	1-509-017-00	connector, AC INPUT (E, Canada)
	1-509-509-00	connector, AC INPUT (AEP)
	1-509-553-11	connector, AC INPUT (UK)
ME	1-520-167-11	meter, REC/BATT
F	1-532-129-11	fuse, 0.2 A (E)
F1, F2	1-532-284-11	fuse, 630 mAT (AEP, UK)
	1-533-107-21	holder, fuse (AEP, UK)
	1-533-115-11	holder, fuse (E)
	8-814-190-11	microphone, electret condenser, C-1002A
M	8-834-009-02	motor; D-009G
	1-534-558-11	(Canada) cord, power
	1-534-559-11	(E) cord, power
	1-534-843-11	(AEP) cord, power
	1-534-879-11	(UK) cord, power
	1-536-439-11	pin

SECTION 7
HARDWARE

Part No.	*Description*
	SCREWS
7-621-255-23	P 2 x 4
7-621-255-35	P 2 x 5
7-621-255-42	P 2 x 6
7-621-259-13	P 2.6 x 3
7-621-259-22	P 2.6 x 4, w/tooth
7-621-259-23	P 2.6 x 4
7-621-259-32	P 2.6 x 5
7-621-259-63	P 2.6 x 10
7-621-305-52	F 2 x 8
7-621-660-29	RK 2.6 x 20
7-621-770-99	B 2.6 x 8
7-621-774-	B 2.6 x 16
7-628-254-15	PS 2.6 x 6
7-628-254-25	PS 2.6 x 8
7-682-145-03	P 3 x 4
7-682-146-03	P 3 x 5
7-682-249-03	K 3 x 10
7-682-647-03	PS 3 x 6
7-682-648-03	PS 3 x 8
7-685-105-01	P 2 x 8, self-tapping
7-685-136-01	P 2.6 x 12, self-tapping
7-685-234-01	K 2.6 x 8, self-tapping

Part No.	*Description*
	WASHERS
7-623-105-06	2
7-623-105-11	2
7-623-107-25	2.6
7-623-108-09	3
7-623-108-11	3
7-623-110-07	4
	RETAINING RINGS
7-624-102-01	E 1.5
7-624-104-01	E 2
7-624-106-01	E 3
7-624-108-01	E 4
7-624-109-01	E 5
7-624-118-01	E 2.5
	SPRING WASHERS
7-623-205-26	2
7-623-207-21	2.6
7-623-208-21	3
	NUT
7-622-105-01	

Hardware Nomenclature

P – Pan Head Screw

PS – Pan Head Screw with Spring Washer

K – Flat Countersunk Head Screw

B – Binding Head Screw

RK – Oval Countersunk Head Screw

T – Truss Head Screw

R – Round Head Screw

F – Flat Fillister Head Screw

SC – Set Screw

E – Retaining Ring (E Washer)

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

– Example –