

WA-6000

SERVICE MANUAL

E Model
AEP Model
UK Model



PHOTO : E Model

SPECIFICATIONS

Tape Transport Mechanism MF-WA6000-06

Radio section

Frequency range FM: 87.6–107 MHz
(AEP Model)
87.6–108 MHz
(E, UK Model)
SW₁: 5.95–6.20 MHz (49 m)
SW₂: 9.50–9.80 MHz (31 m)
SW₃: 11.70–12.00 MHz (25 m)
SW₄: 15.10–15.50 MHz (19 m)
SW₅: 17.60–18.00 MHz (16 m)
MW: 530–1,605 kHz

Antennas

FM/SW: Telescopic antenna
MW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system 2-track 1-channel
Speaker 5 cm dia. (2 inches)
Fast winding time Approx. 2 min. 30 sec. with Sony cassette C-60
Frequency response 90–9,000 Hz
Input Microphone input jack (minijack) sensitivity 0.2 mV for low impedance microphone
Output Earphone jack (minijack)
Power output (at 10% harmonic distortion) 230 mW

Battery life

(hours)

Batteries	FM recording	Tape playback
Sony New Super SUM-3(NS)	3	4
Sony Eveready AM3 alkaline	6	8

For maximum performance we recommend the use of alkaline batteries.

Power requirements

6 V dc, four batteries IEC designation R6 (size AA)

DC IN 6 V jack accepts:

optional Sony AC-D4 ac power adaptor available in the United Kingdom for use on 240 V ac, 50 Hz

available in European countries for use on 220 V ac, 50 Hz

available in other countries for use on 110, 120 or 220 V ac, 50/60 Hz

optional Sony DCC-127A car battery cord for use with 12 V car battery or Sony DCC-240 car battery cord for use with 24 V car battery

Dimensions

Approx. 180.5 × 101 × 43 mm (w/h/d)
(7¹/₈ × 4 × 1³/₄ inches)

not incl. projecting parts and controls
Approx. 187.5 × 107.3 × 50 mm (w/h/d)
(7⁷/₁₆ × 4¹/₄ × 2 inches)

incl. projecting parts and controls

Approx. 570 g (1 lb 4¹/₈ oz) incl. batteries

Weight

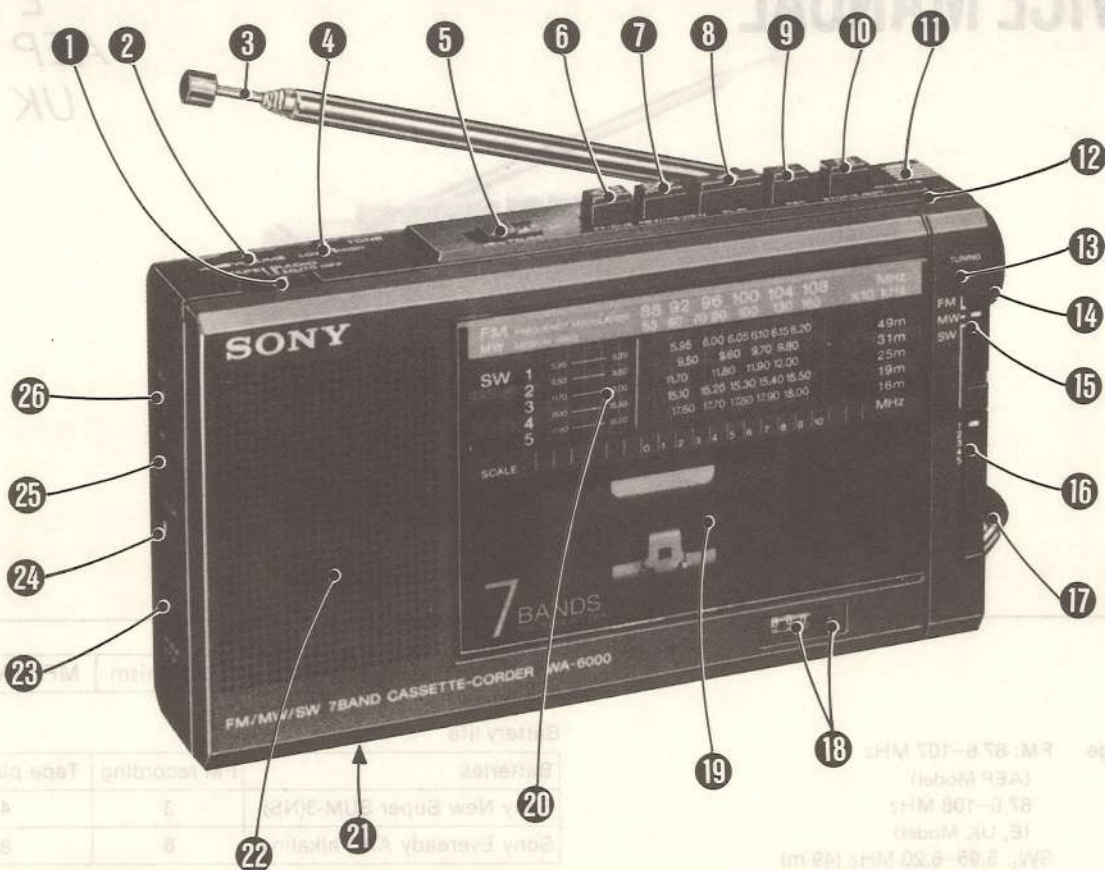
FM/MW/SW1-5 7BAND CASSETTE-CORDER

SONY®



TC

PARTS IDENTIFICATION



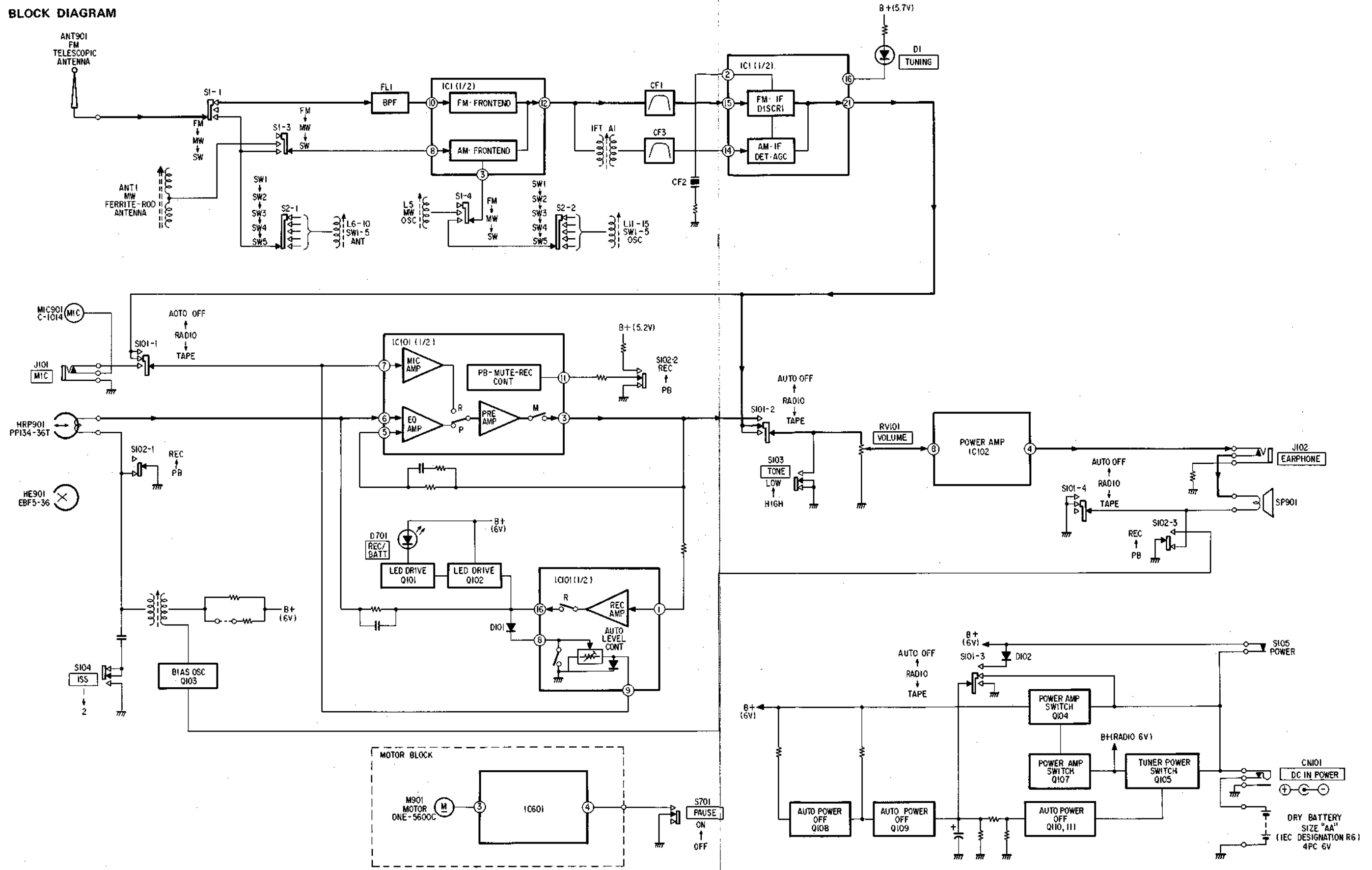
- ① Function selector
- ② VOLUME control
- ③ Telescopic antenna
- ④ TONE selector
- ⑤ || PAUSE switch
- ⑥ ◀◀ FF/CUE (fast-forward/cue) button
- ⑦ ▶▶ REW/REVIEW (rewind/review) button
- ⑧ ▶ PLAY (playback) button
- ⑨ ● REC (record) button
- ⑩ ■ STOP/EJECT button
- ⑪ MIC (built-in microphone)
- ⑫ REC/BATT (record/battery) indicator
- ⑬ TUNING indicator

- ⑭ Tuning knob
- ⑮ Band selector
- ⑯ SW band selector
- ⑰ Carrying strap
- ⑱ Tape counter and reset button
- ⑲ Cassette holder
- ⑳ Dial scale
- ㉑ Battery case (bottom)
- ㉒ Speaker
- ㉓ DC IN 6 V (external power input) jack
- ㉔ EARPHONE jack
- ㉕ MIC (microphone) jack
- ㉖ ISS (interference suppress switch)

WA-6000 WA-6000

**SECTION 1
OUTLINE**

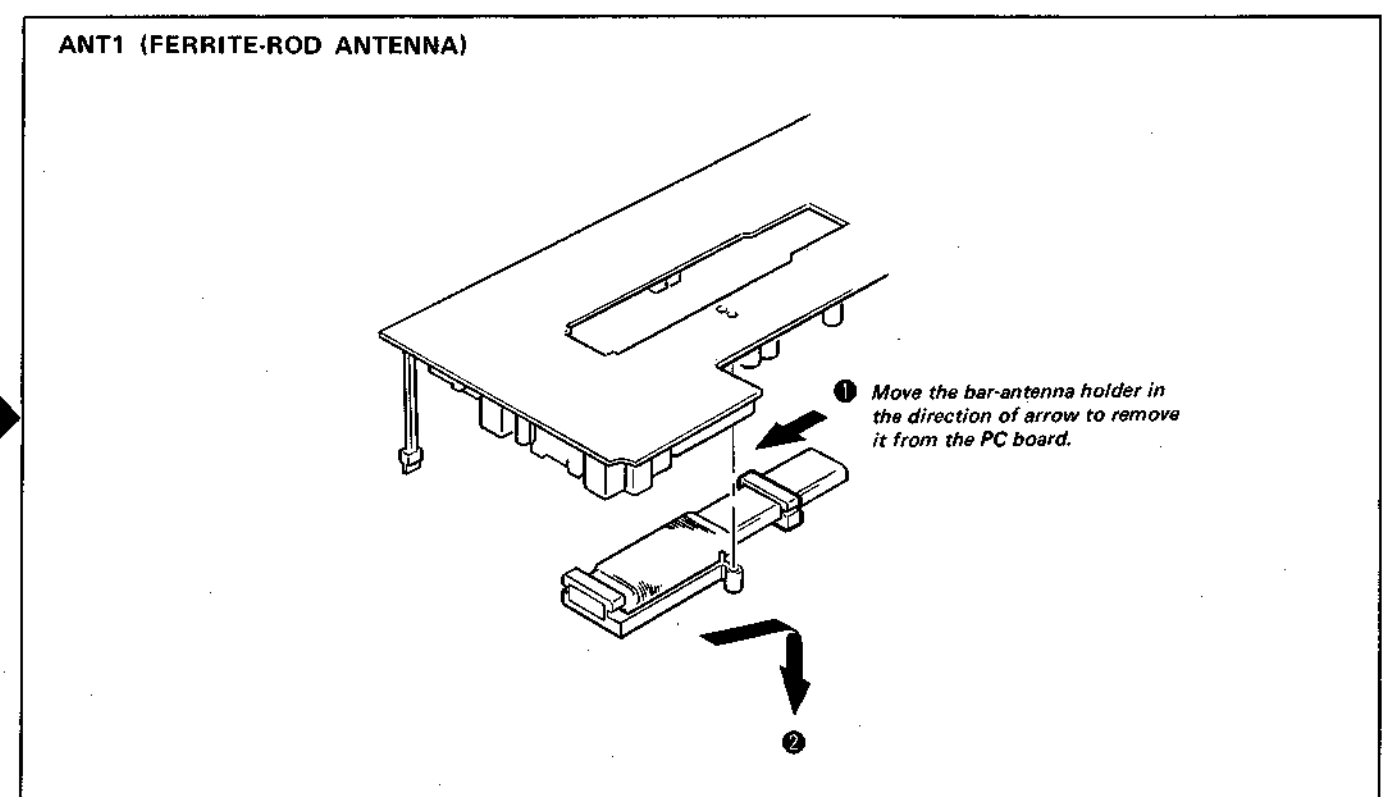
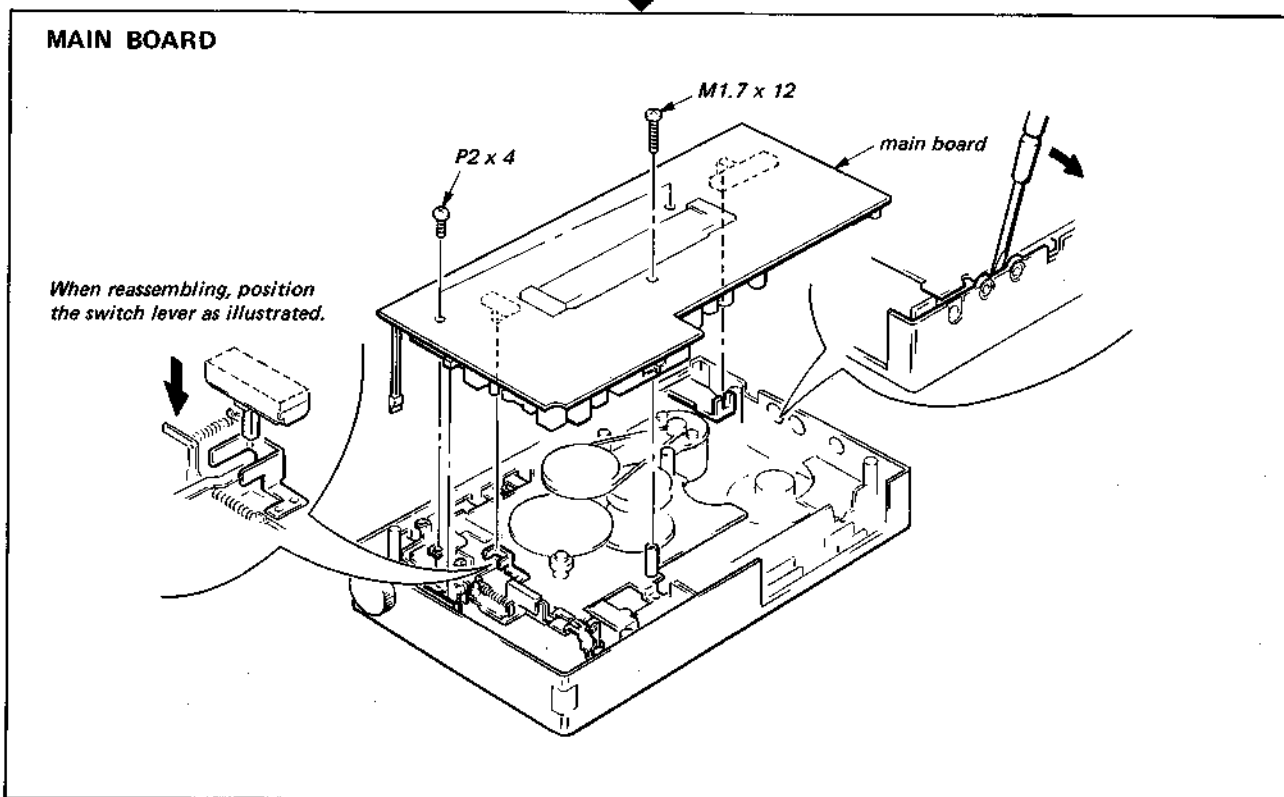
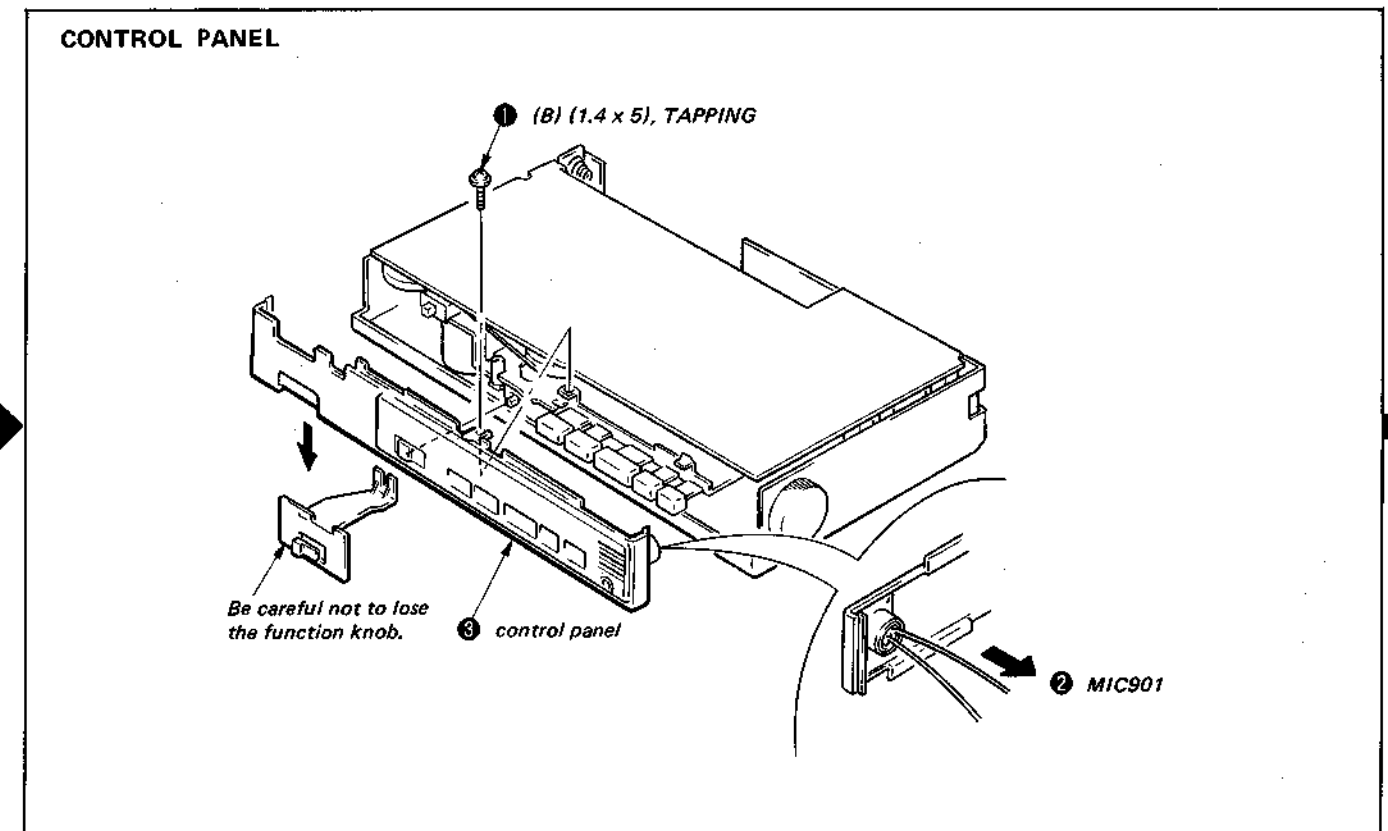
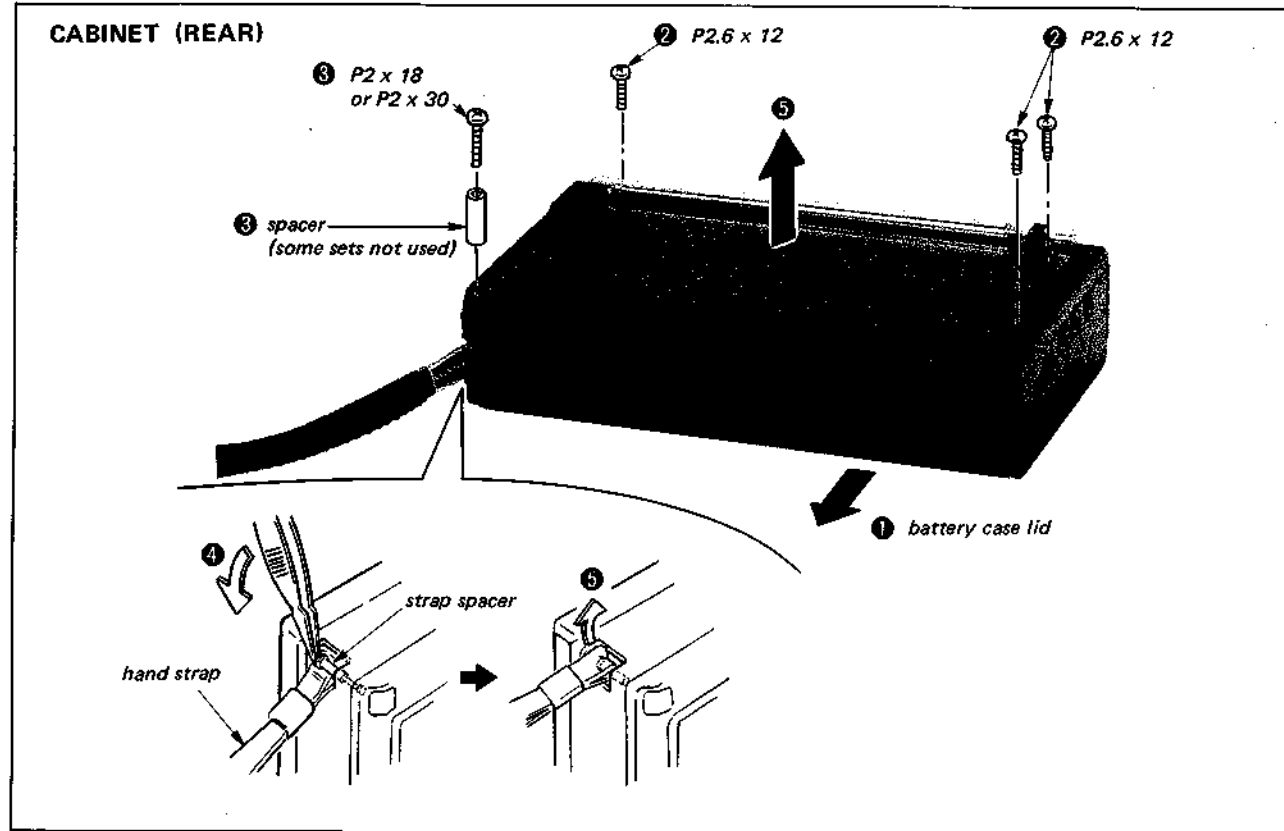
BLOCK DIAGRAM



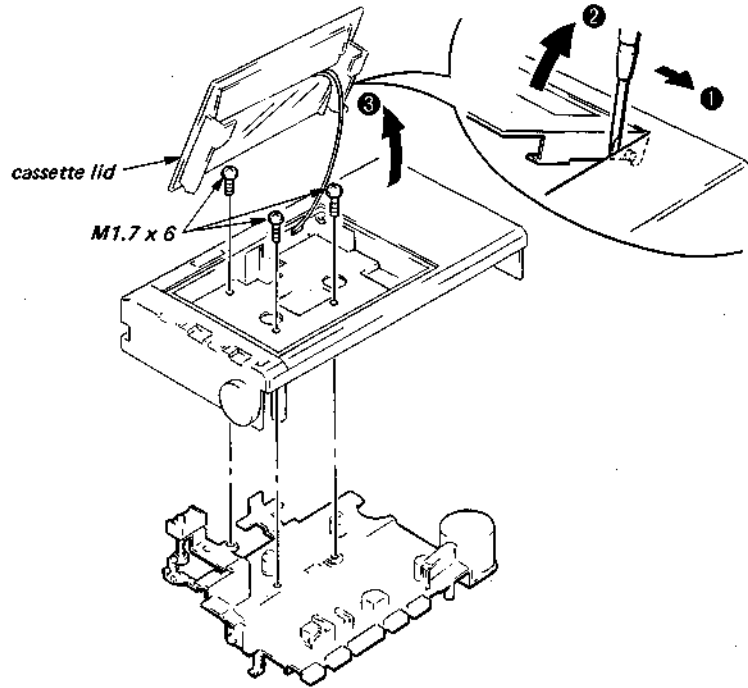
SECTION 2
DISASSEMBLY

2-1. REMOVAL

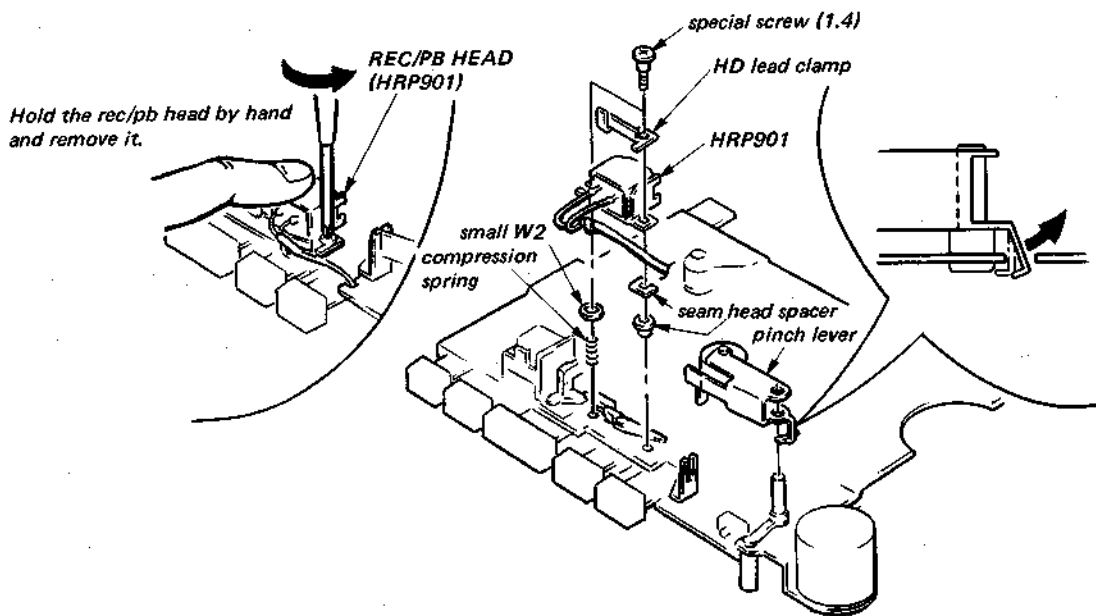
Note: Follow the disassembly procedure in the numerical order given.



CASSETTE LID/MECHANISM SECTION

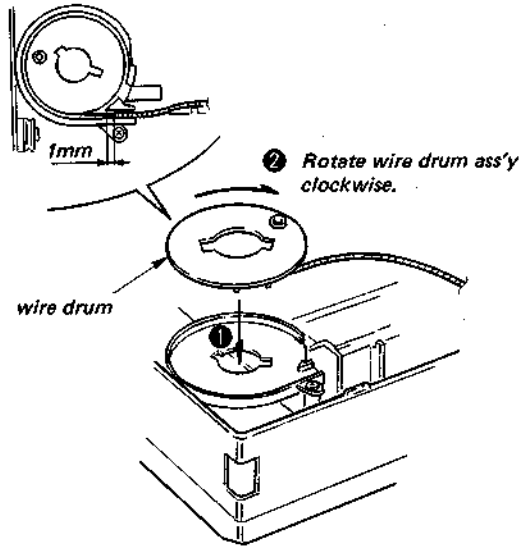


REC/PB HEAD (HRP901)/PINCH LEVER



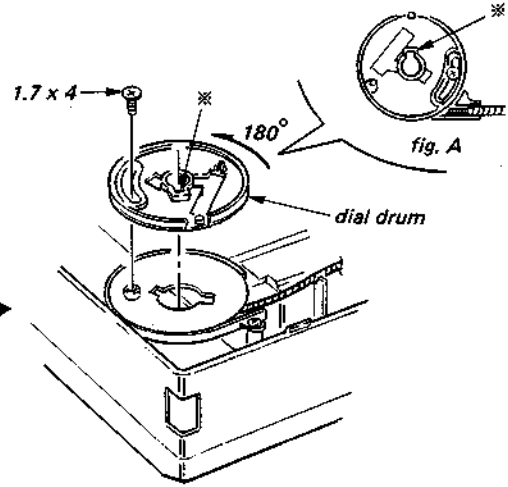
2-2. DIAL CORD STRINGING

• Wire drum installation

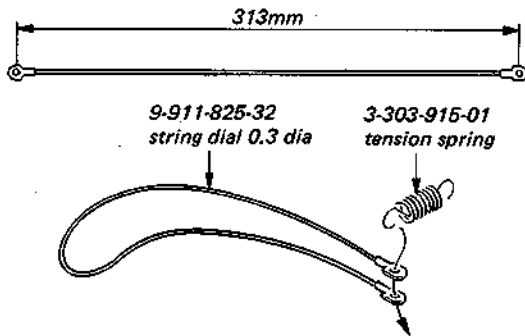


• Dial drum installation

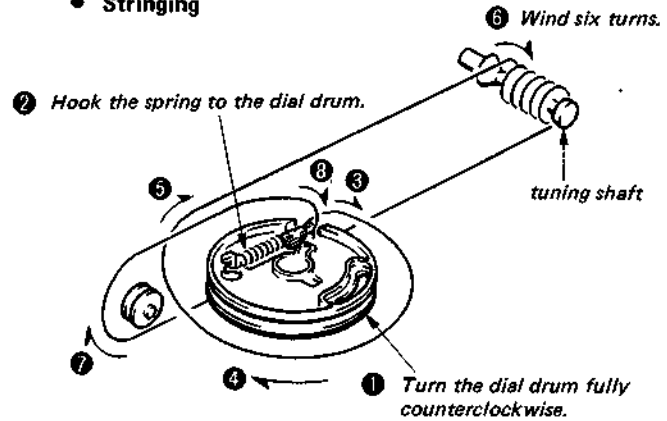
Rotate dial drum counterclockwise in a 180-degree arc., and set the point marked * as fig. A.



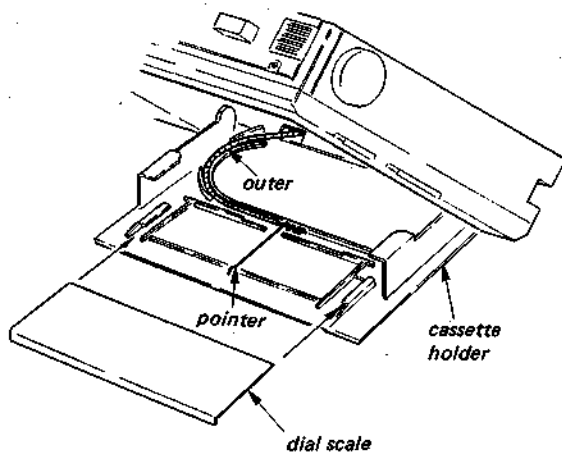
• Preparation



• Stringing



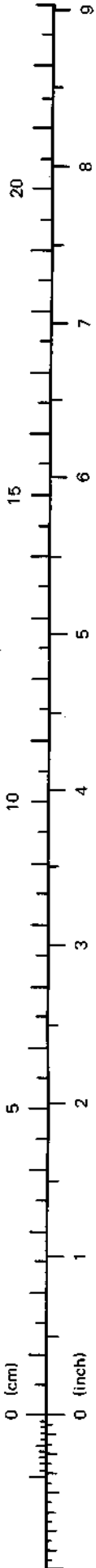
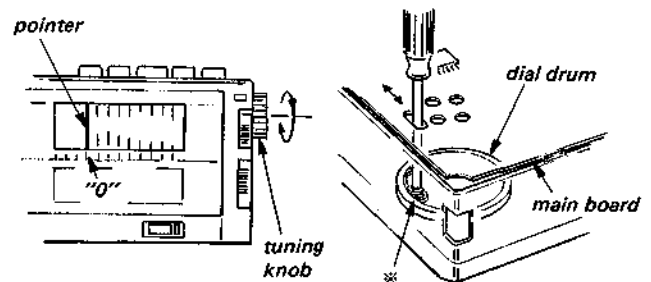
• Dial scale installation



• Dial pointer installation

- 1) Rotate tuning knob fully counterclockwise.
- 2) Loosen the screw marked * and set the point at "0".
- 3) Tighten the screw marked *.

Note: Be careful not to move dial drum when loosening the screw. If the screw moves, rotate tuning knob again and set the pointer to fmin.



**SECTION 3
ADJUSTMENTS**

3-1 MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

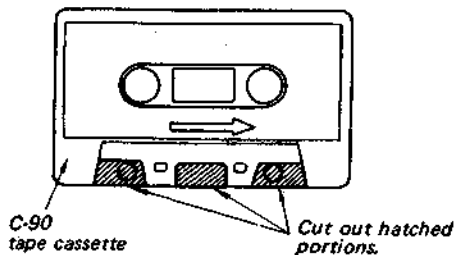
Torque	Torque meter	Meter reading
Forward	CQ-102C	22 – 40 g-cm (0.3 – 0.56 oz-inch)
Fast Forward and Rewind	CQ201B	67.5 – 95 g-cm (0.95 – 1.33 oz-inch)
Back Tension	CQ-102C	2 – 4 g-cm (0.028 – 0.06 oz-inch)

Tape Pulling Strength Measurement

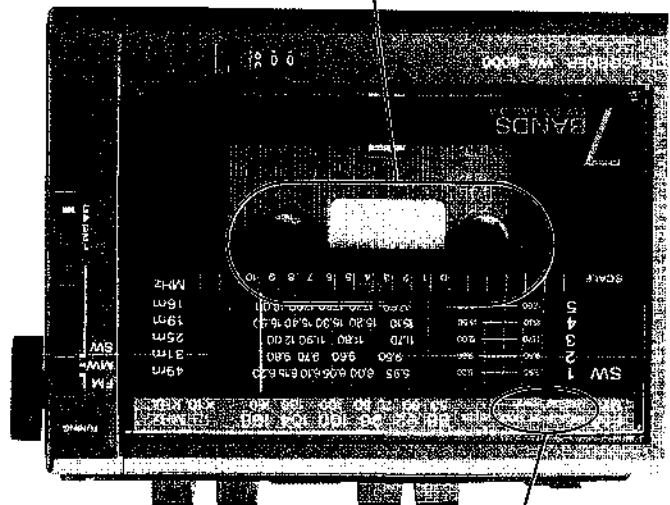
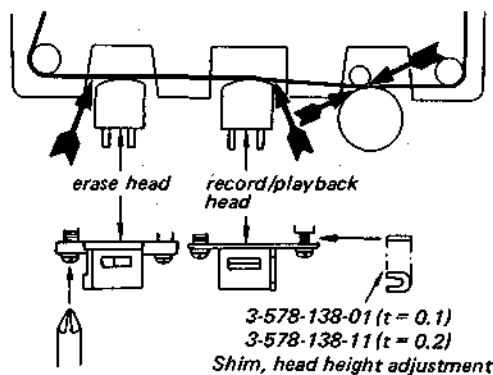
Meter	Meter reading
CQ-403	more than 120 g

Head Height Adjustment

- Prepare an adjustment cassette as shown below.



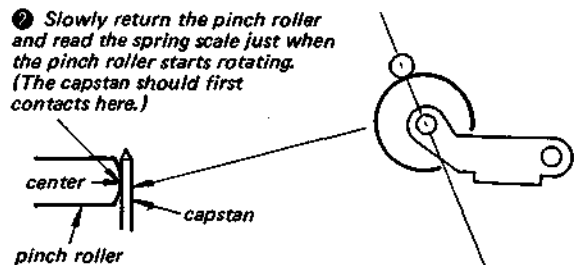
- In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrows.



Pinch Roller Pressure Adjustment

— Playback Mode —

- Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating. (The capstan should first contacts here.)



① spring scale
specification:
25 – 50 g
(0.88 – 1.76 oz)

3-2. ELECTRICAL ADJUSTMENTS

CASSETTE RECORDER SECTION

Tape Speed Adjustment

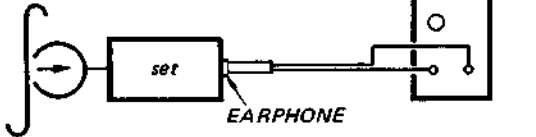
Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback

test tape
WS-48
(3 kHz, 0 dB)

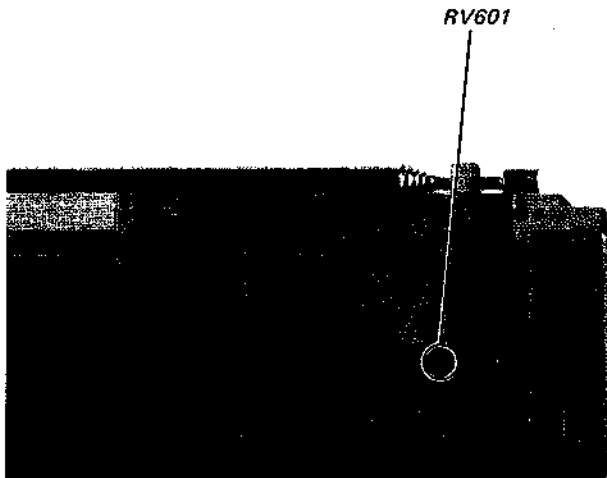


Specification:

Speed checker	Digital frequency counter
-0.3 to +0.3 %	3000 ± 10 Hz

Frequency difference between beginning and end of tape should be within 1.5 % (45 Hz). If necessary, adjust RV601.

Adjustment Location: Servo board

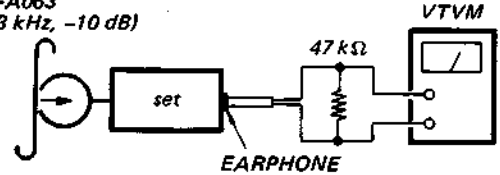


Record/playback Head Azimuth Adjustment

Procedure:

1. Mode: playback

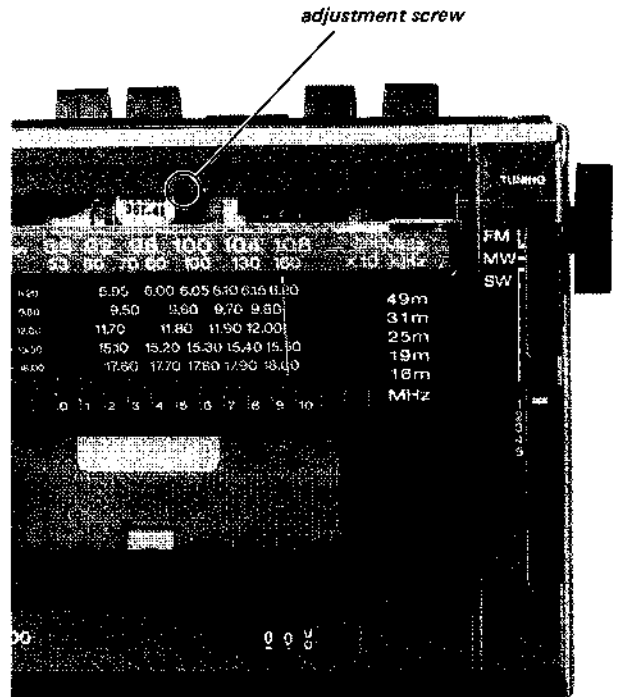
test tape
P-4-A063
(6.3 kHz, -10 dB)



2. Turn the adjustment screw for maximum VTVM reading.

Note: Several peaks may appear, but take the maximum.

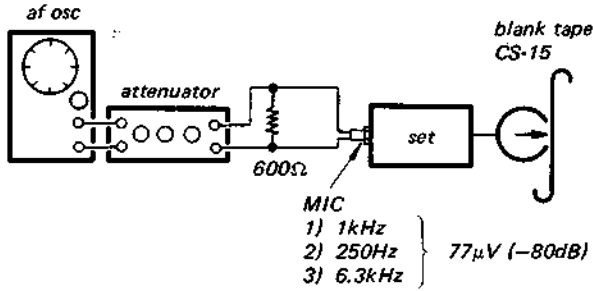
Adjustment Location:



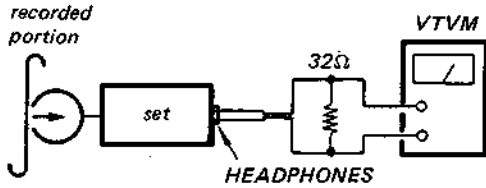
Record Bias Adjustment

Procedure:

1. Mode: record

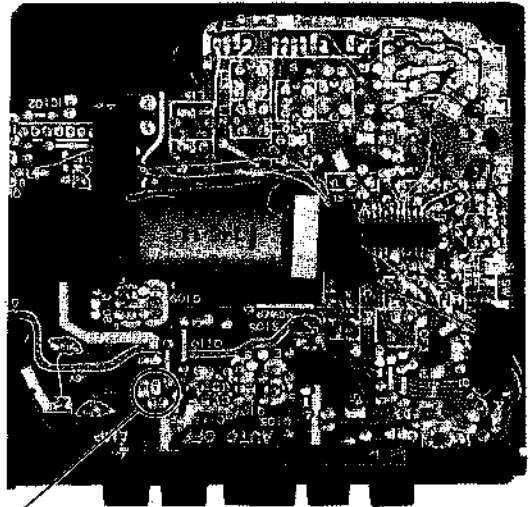
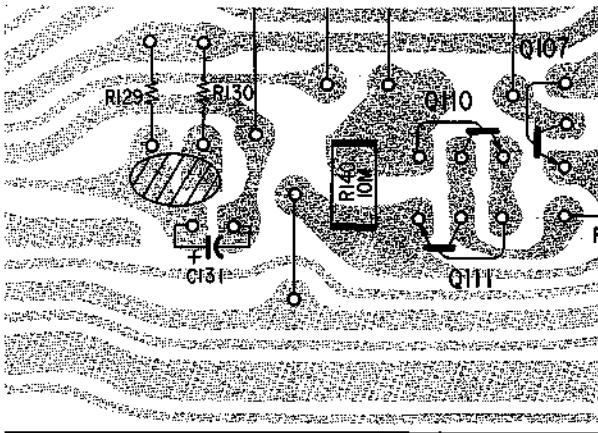


2. Mode: playback



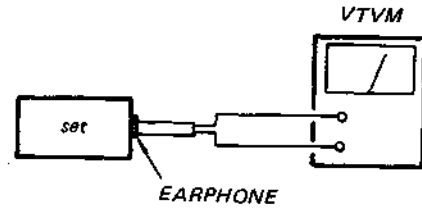
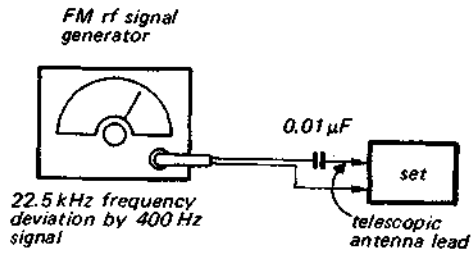
- 1) Adjust VOLUME control so that 1kHz output level is 250mV (-10dB).
- 2) Confirm that 250Hz and 6.3kHz output levels are 55mV (-23dB) - 110mV (-17dB).
- 3) If necessary, connect the pattern and repeat steps 1), 2).

Adjustment Location:



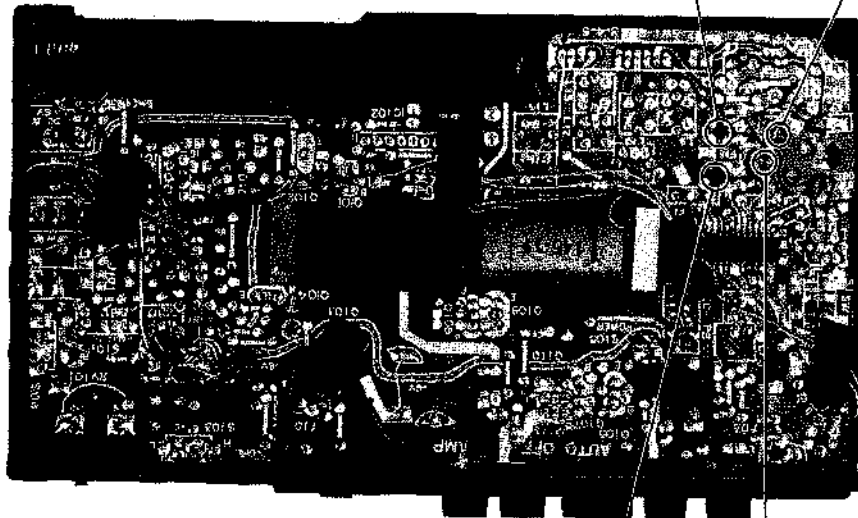
WA-6000

FM SECTION



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

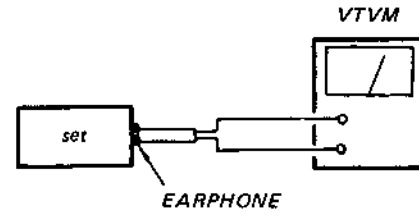
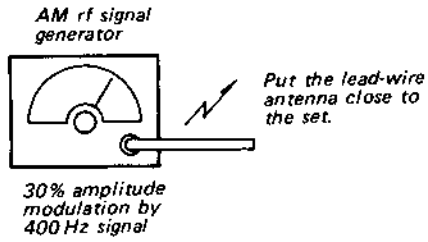
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.2MHz (E, UK model)	108.6MHz (E, UK model)
87.4MHz (AEP model)	108 MHz (AEP model)
L2	CT2



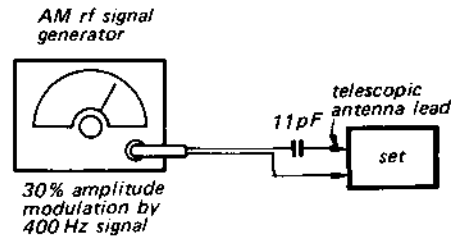
L1	CT1
87.2MHz	108.6MHz
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

AM SECTION

• MW



• SW1-5

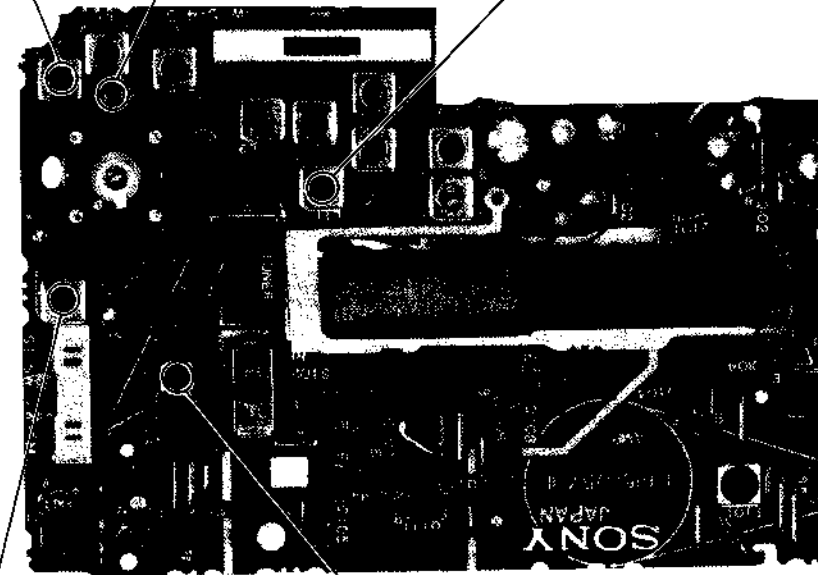
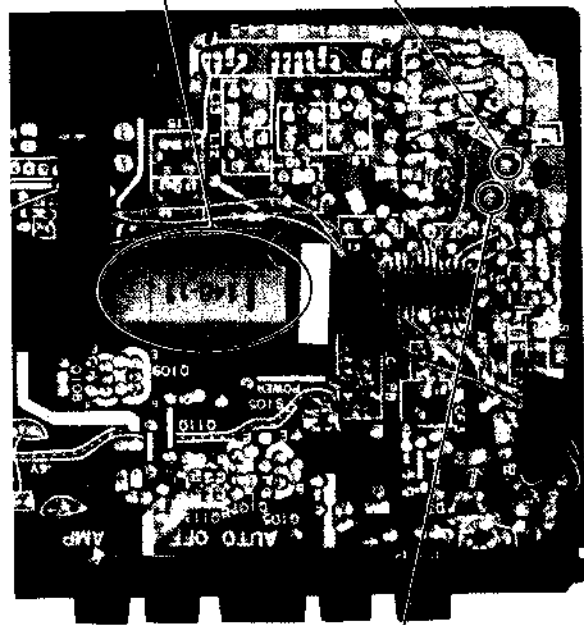


• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW TRACKING ADJUSTMENT	
Adjust for maximum reading on VTVM.	
620 kHz	1,400 kHz
ANTI	CT3

SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
5.9MHz	6.250MHz
L11	CT5

SW1 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
6.075 MHz	
L6	



CT4	L5
1,680 kHz	520 kHz
Adjust for a maximum reading on VTVM.	
MW FREQUENCY COVERAGE ADJUSTMENT	

IFTA1	
455kHz (E, AEP model) 468kHz (UK model)	
Adjust for a maximum reading on VTVM.	
AM IF ALIGNMENT	

Note:
Adjust SW2, SW3, SW4 and SW5, after SW1 adjustments are performed.

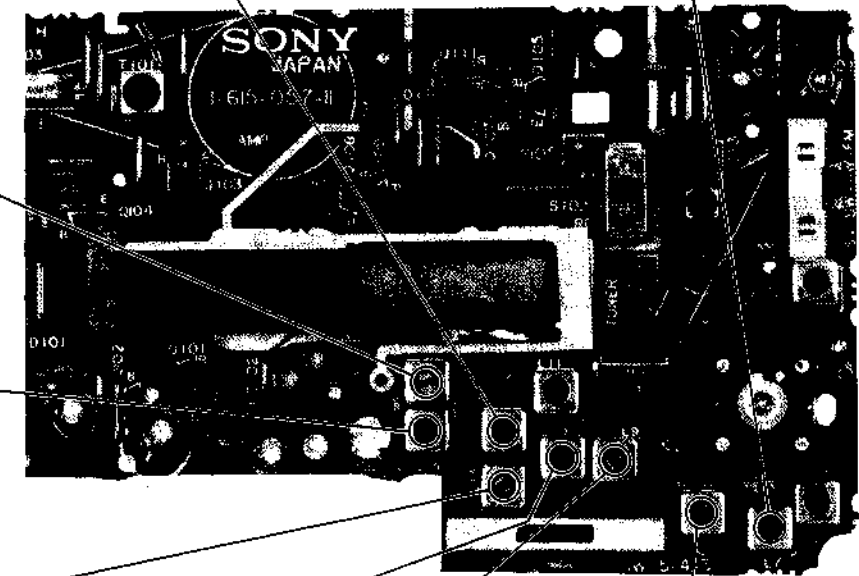
SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
9.661MHz	
L7	

SW2 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
9.661MHz	
L12	

SW4 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
15.314MHz	L9

SW5 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
17.819MHz	L10

SW3 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
11.873MHz	L8



L15	L14
17.819MHz	15.314MHz
Adjust for a maximum reading on VTVM.	
SW5 FREQUENCY COVERAGE ADJUSTMENT	
SW4 FREQUENCY COVERAGE ADJUSTMENT	

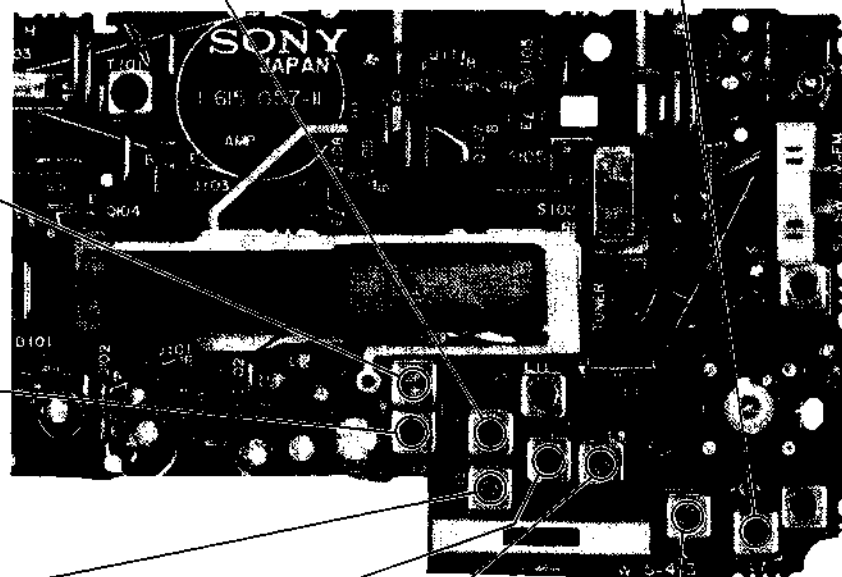
L14	L13
15.314MHz	11.873MHz
Adjust for a maximum reading on VTVM.	
SW4 FREQUENCY COVERAGE ADJUSTMENT	
SW3 FREQUENCY COVERAGE ADJUSTMENT	

L13	L12
11.873MHz	9.661MHz
Adjust for a maximum reading on VTVM.	
SW3 FREQUENCY COVERAGE ADJUSTMENT	

SW1 adjustments are performed.

SW2 TRACKING ADJUSTMENT
Adjust for a maximum reading on VTVM.
9.661MHz
L7

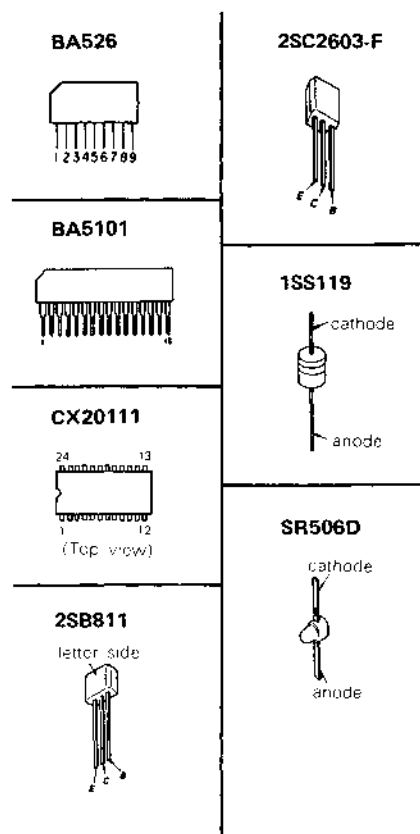
SW2 FREQUENCY COVERAGE ADJUSTMENT
Adjust for a maximum reading on VTVM.
9.661MHz
L12



L14
15.314MHz
Adjust for a maximum reading on VTVM.
SW4 FREQUENCY COVERAGE ADJUSTMENT

L13
11.873MHz
Adjust for a maximum reading on VTVM.
SW3 FREQUENCY COVERAGE ADJUSTMENT

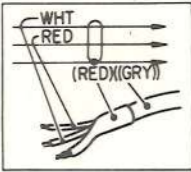
• Semiconductor Lead Layouts



4-1. MOUNTING DIAGRAM (Refer to page 15 for semiconductor lead layouts.)

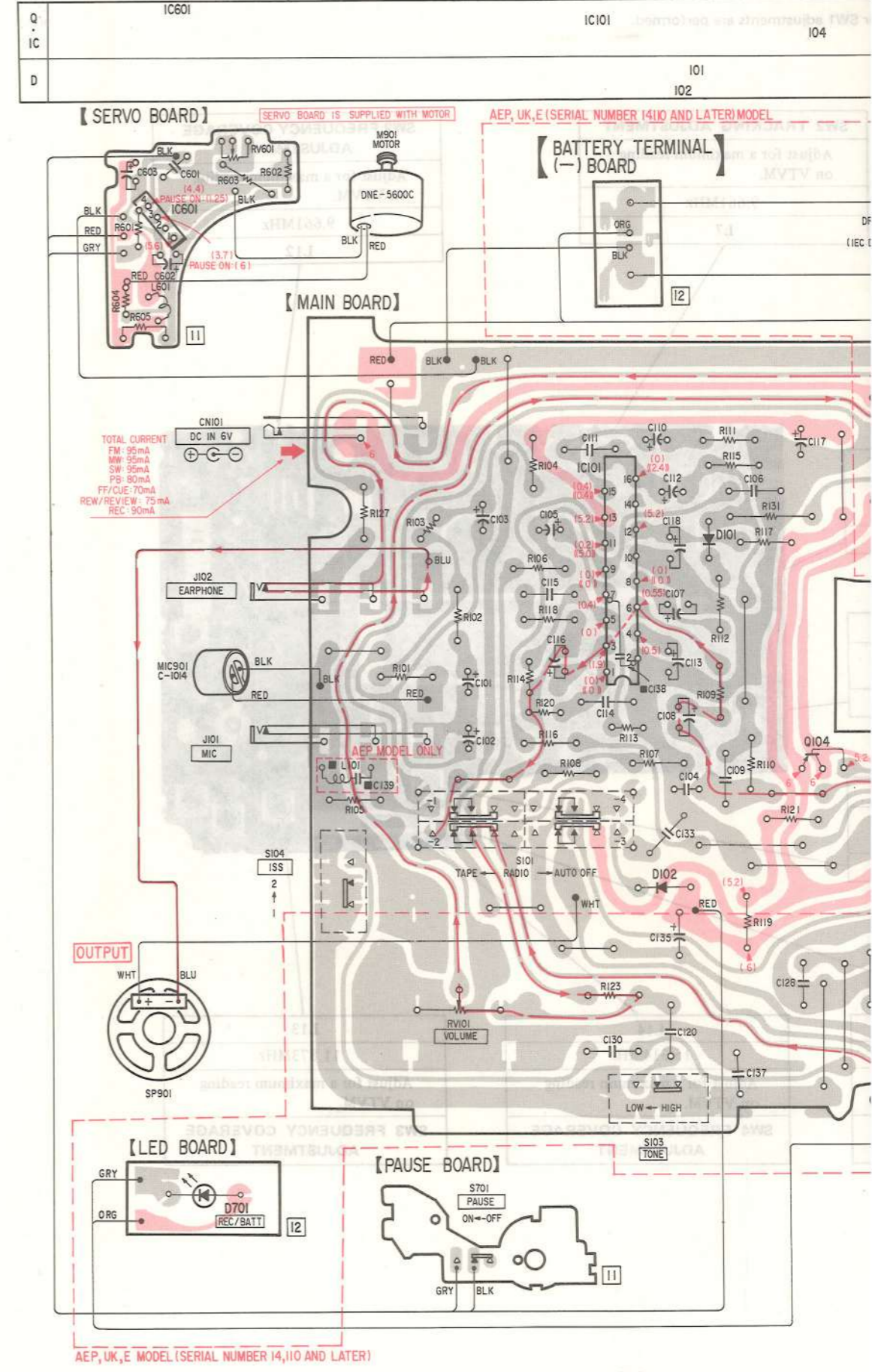
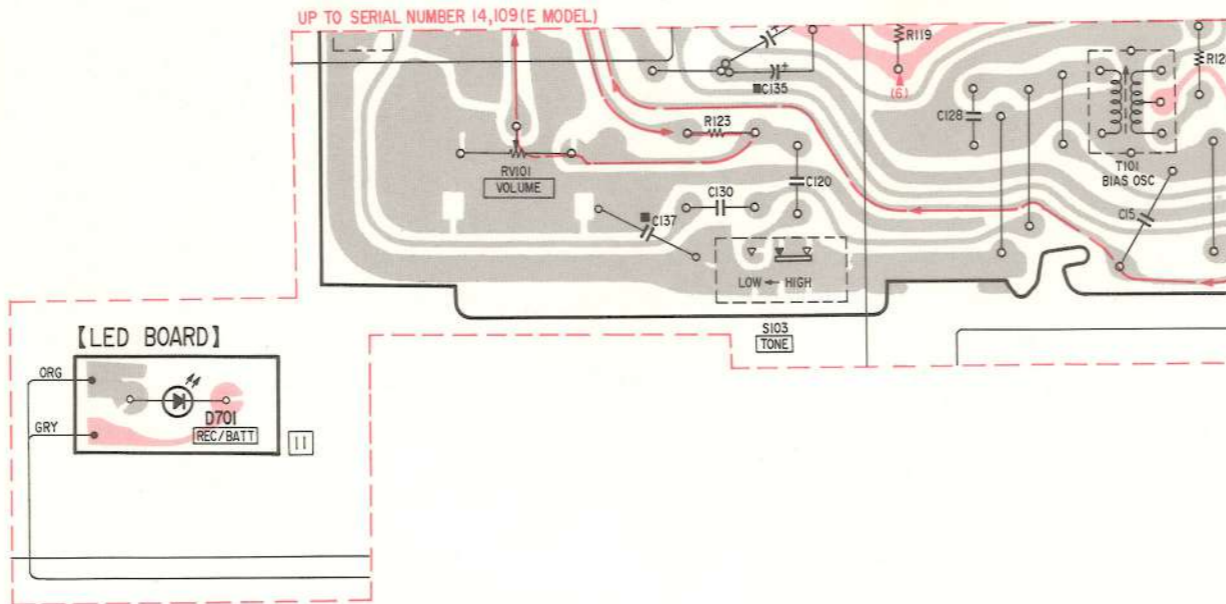
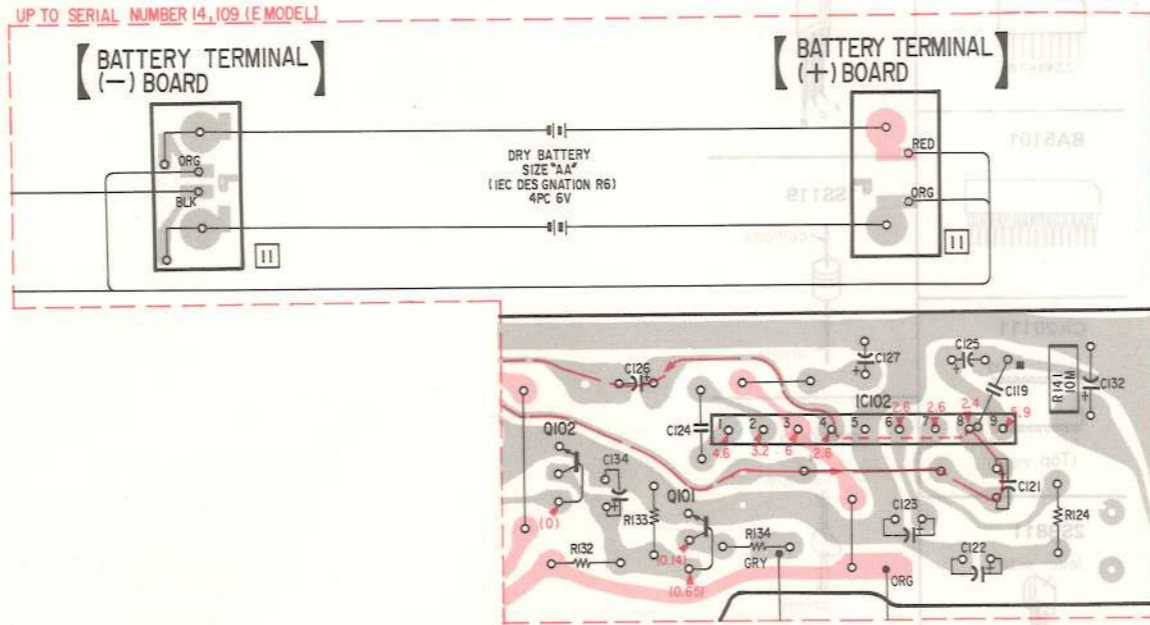
A
B
C
D
E
F
G
H
I
J

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

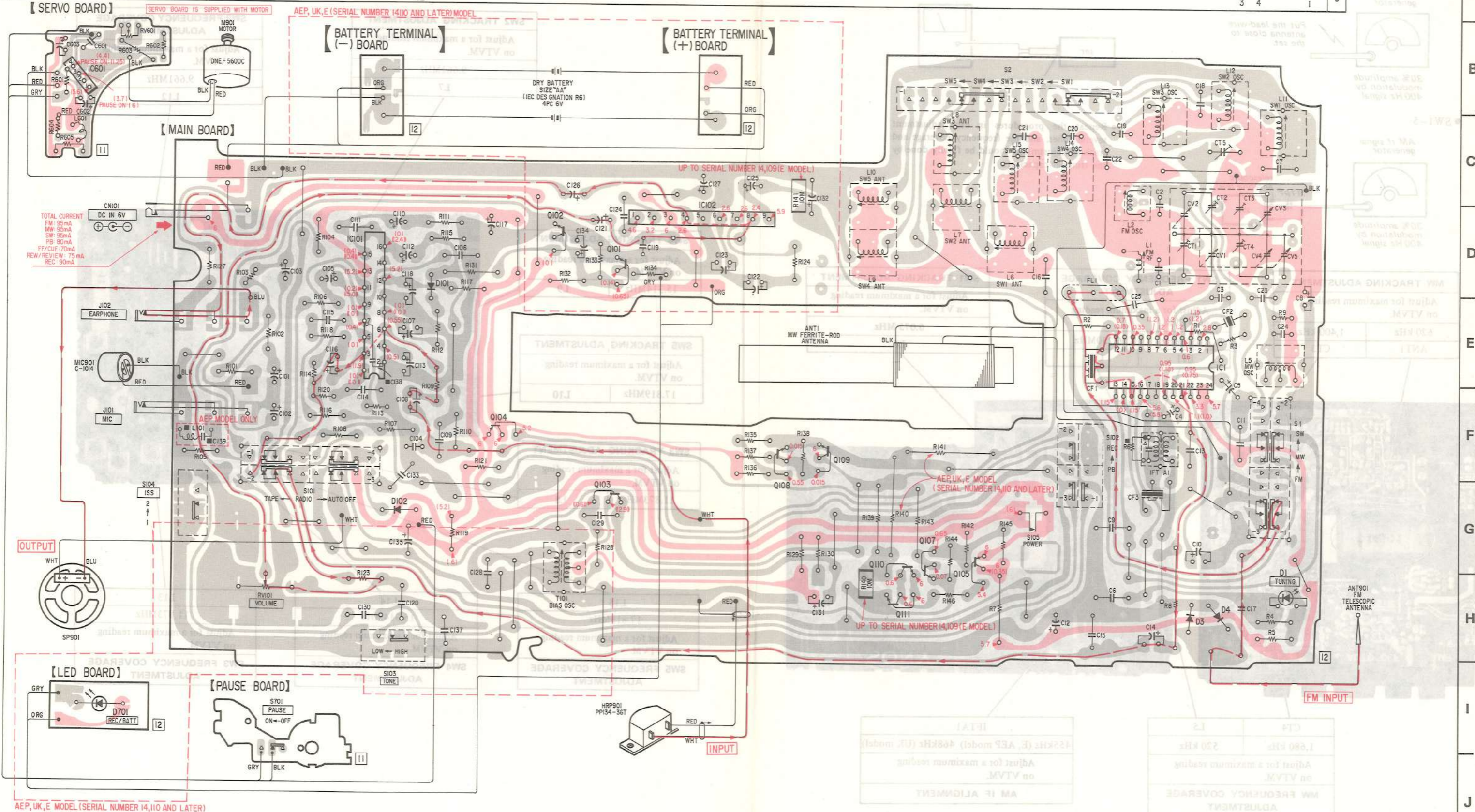


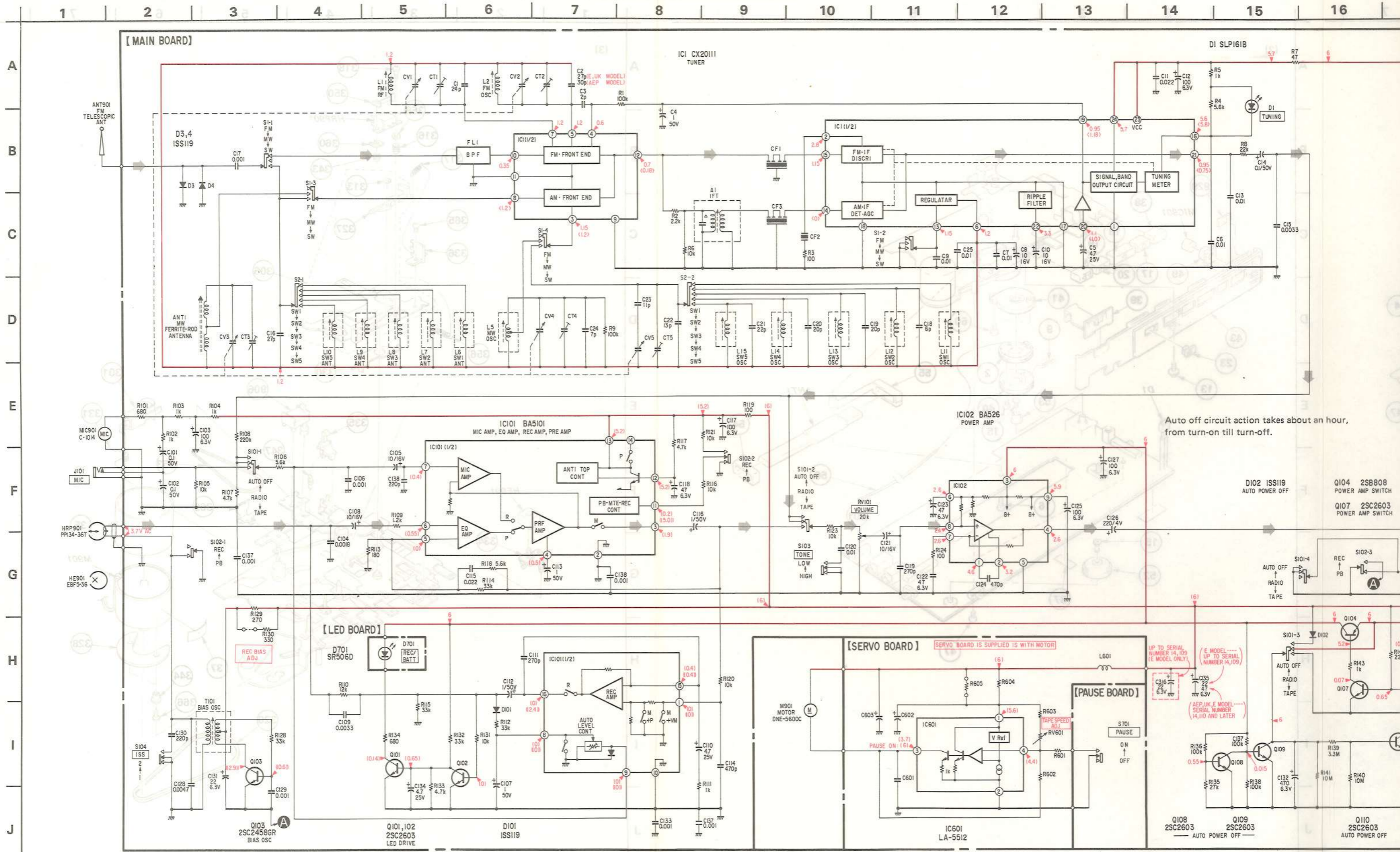
○ : parts extracted from the component side.
● : parts extracted from the conductor side.
■ : part mounted on the conductor side.

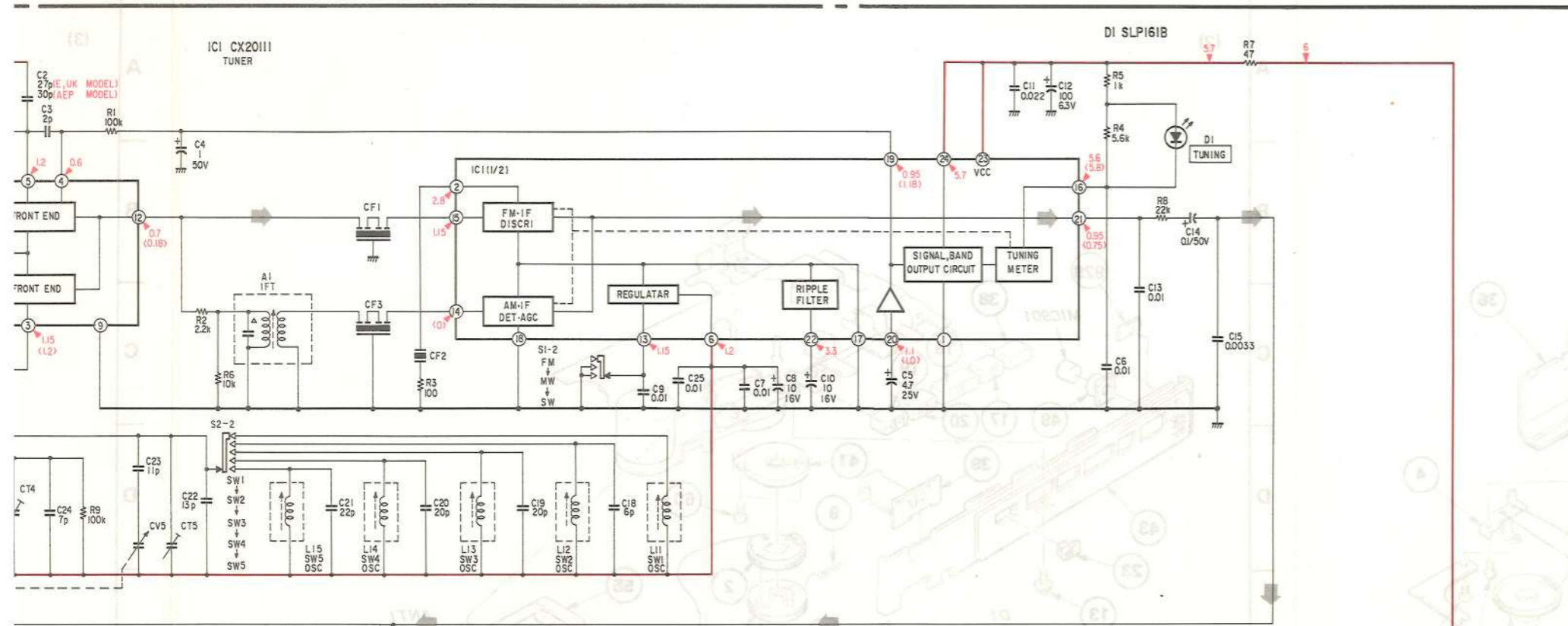
→ : signal path
B+ pattern



Q	IC	IC601	IC101	IC102	IC101	IC102	IC101	IC102	IC108	IC109	IC110	IC107	IC105	IC1	Q	IC
D															D	

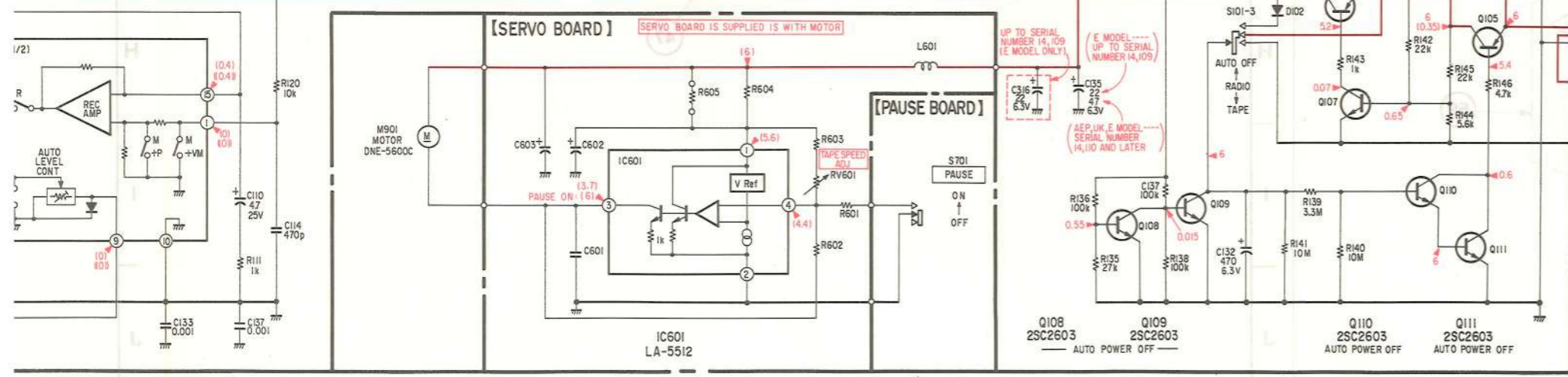
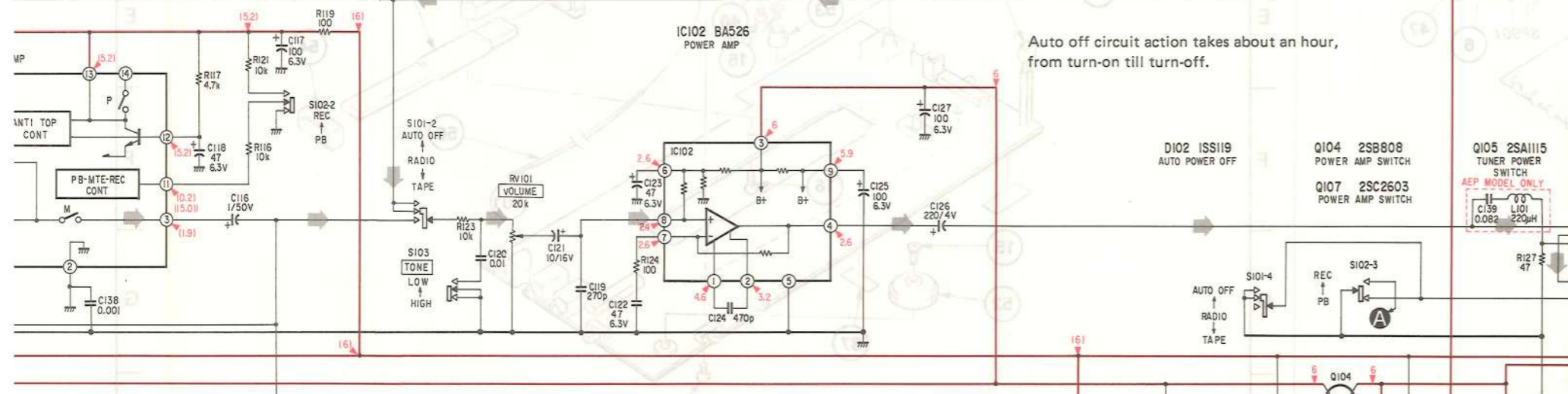


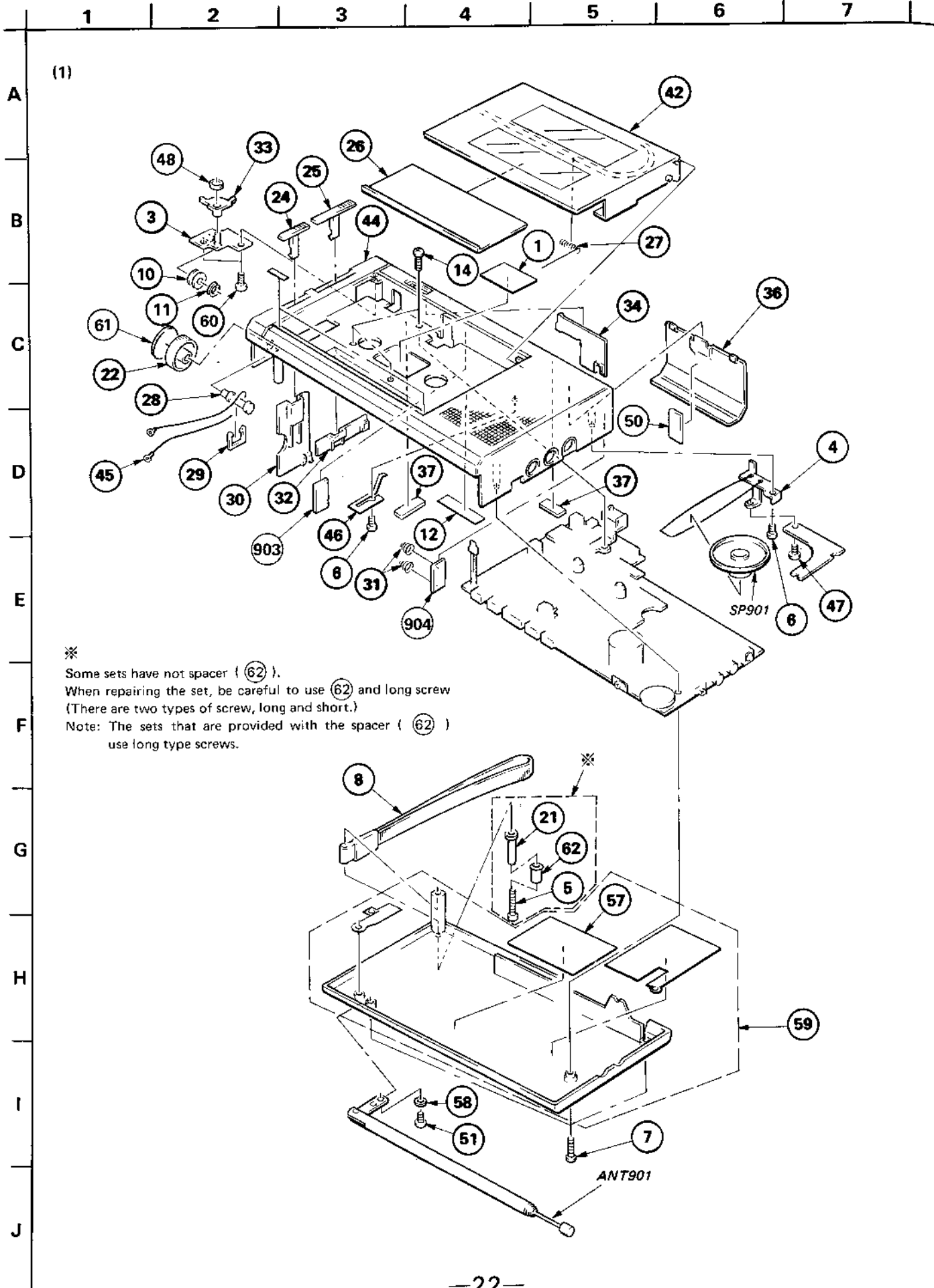




- Note:**
- All capacitors are in μF unless otherwise noted. pF: μpF 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - \Rightarrow : signal path.
 - Δ : internal component.
 - --- : B+ bus.
 - \square : adjustment for repair.
 - AC voltage readings in the bias oscillator with a VTVM.
 - Total current is measured with no cassette installed.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under no-signal (detuned) conditions with a VOM (50k Ω /V).
 - no mark: FM
 - < > : MW
 - () : PB
 - (|) : REC
 - Switch

Ref. No.	Switch	Position
S1	BAND	FM
S2	SW BAND	SW1
S101	FUNCTION	RADIO
S102	REC/PB	PB
S103	TOPE	HIGH
S104	ISS	1
S105	POWER	ON
S701	PAUSE	OFF





1 2 3 4 5 6 7

(2)

A

B

C

D

E

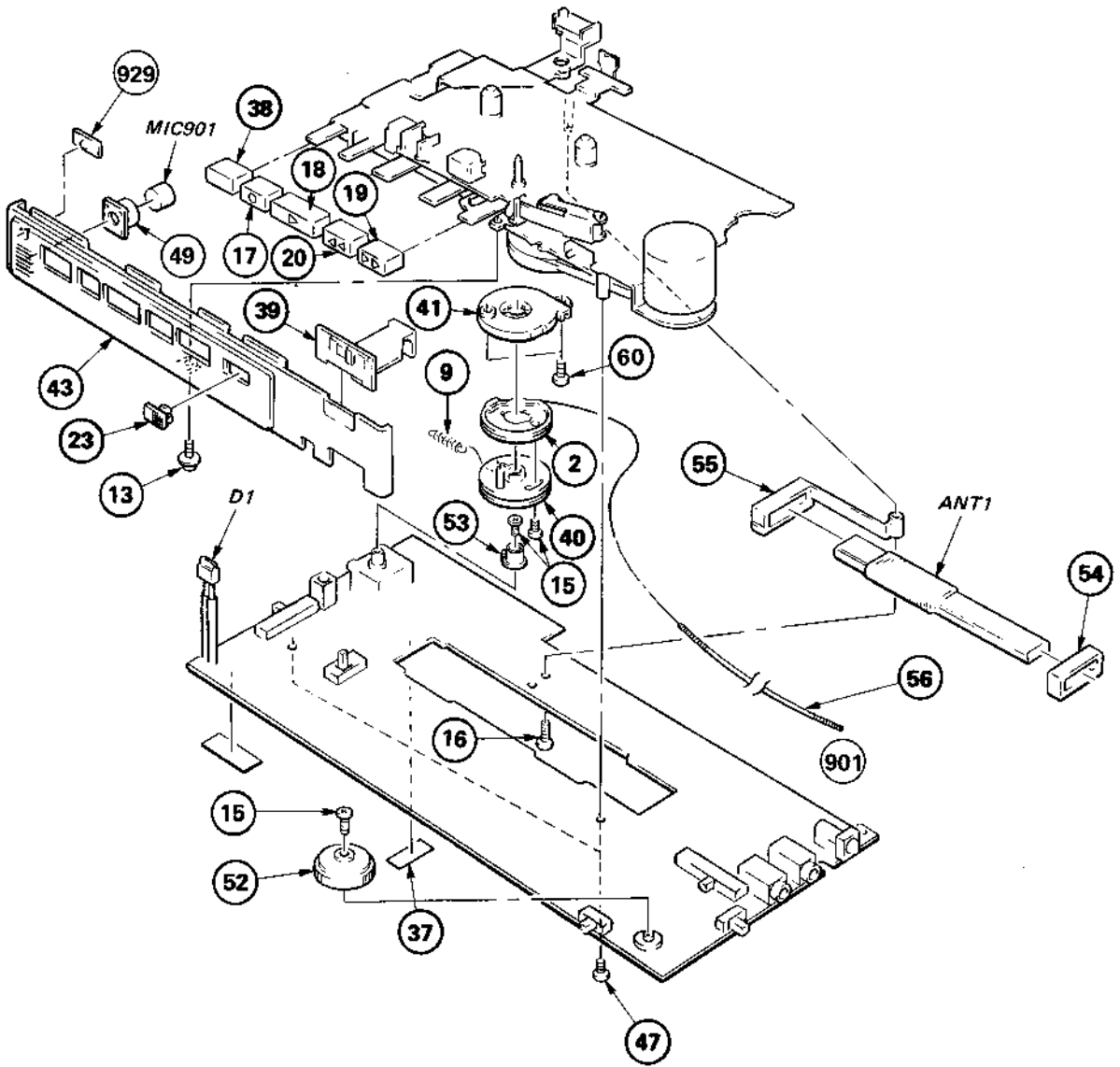
F

G

H

I

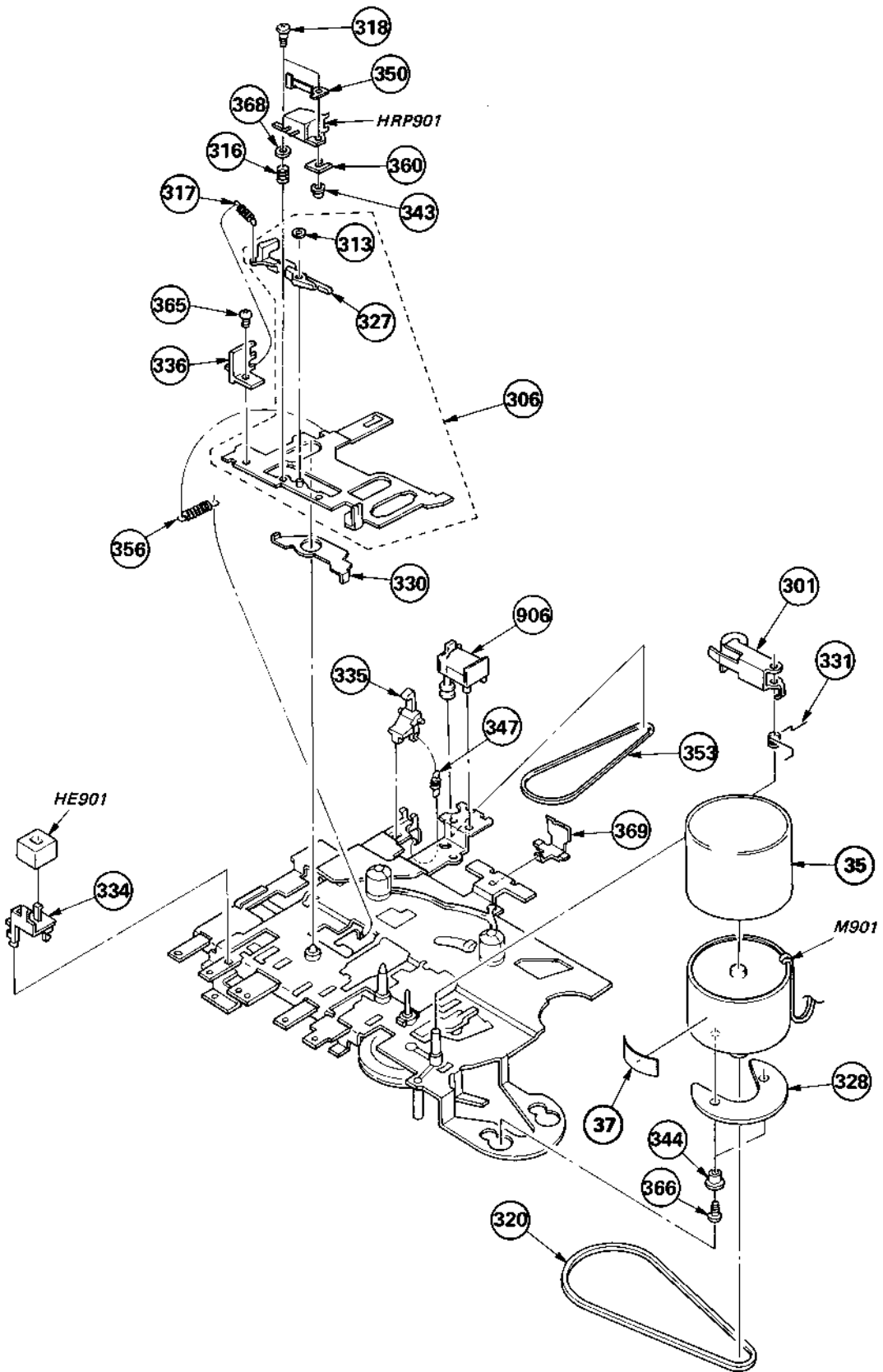
J

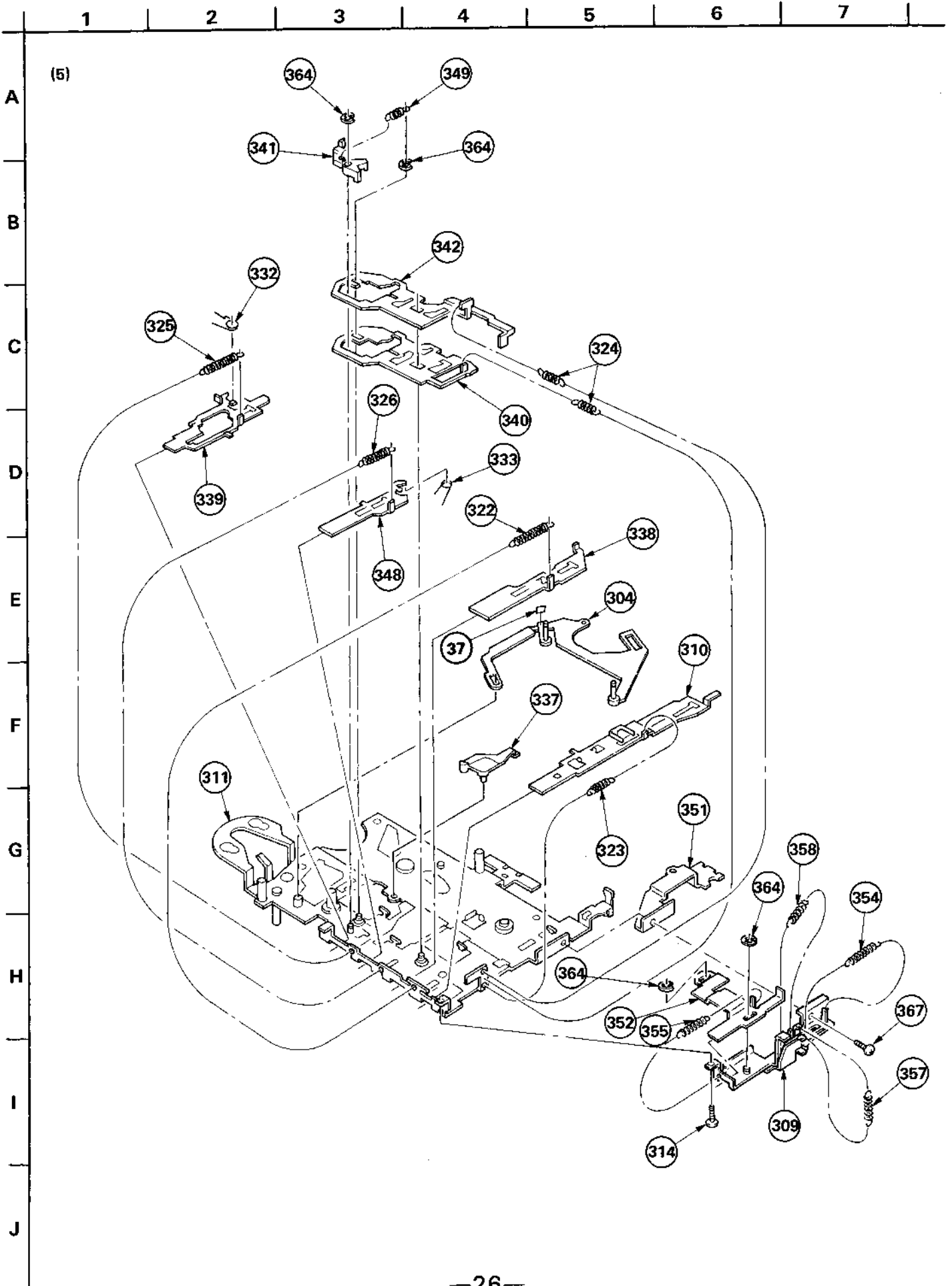


1 2 3 4 5 6 7

(3)

A
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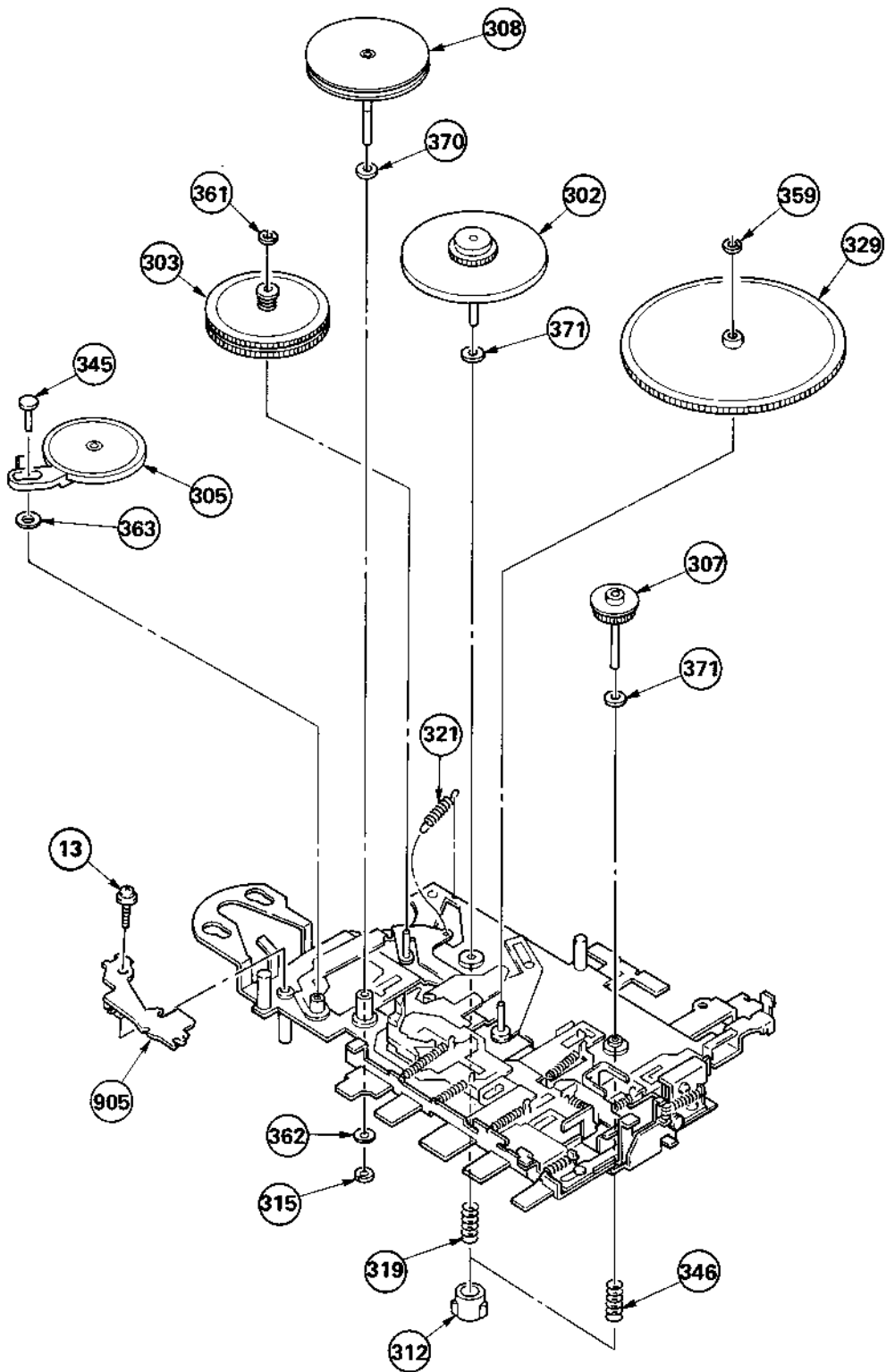




1 2 3 4 5 6 7

(4)

A
B
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D
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G
H
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J



NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:µF, PF:µµF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

· MMH : mH, UH : µH

SEMICONDUCTORS

In each case, U : ν , for example:

UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
UPD...: μ PD...

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

GENERAL SECTION

GENERAL SECTION

No.	Part No.	Description
1	3-556-221-00	PLATE, ORNAMENTAL
2	X-3325-409-1	DRUM ASSY, WIRE
3	*X-3325-401-1	BRACKET ASSY, LEVER
4	X-3325-407-1	RETAINER ASSY, SPEAKER
5	3-316-022-02	(SILVER)...SCREW (+P 2X30)
5	3-316-022-11	(BLACK)...SCREW (+P2X30)
6	7-685-104-24	SCREW +P 2X6 TYPE2 SLIT
7	7-685-136-24	(SILVER)...SCREW +P 2.6X12 TYPE2 SLIT
7	7-685-136-29	(BLACK)...SCREW +P 2.6X12 TYPE2 SLIT
8	3-303-110-00	STRAP, HAND
9	3-303-915-00	SPRING, TENSION
10	3-304-108-00	PULLEY
11	3-307-948-01	WASHER, NYLON
12	*3-311-848-00	CONDUCTOR, GROUND
13	3-318-201-21	SCREW (B)(1.4X5), TAPPING
14	3-318-204-21	(SILVER)...SCREW (M1.7X6), TAPPING
14	3-318-204-31	(BLACK)...SCREW (M1.7X6), TAPPING
15	3-888-156-00	SCREW (1.7X4)
16	3-318-203-51	SCREW (M1.7X12), TAPPING
17	3-318-221-01	BUTTON, REC
18	3-318-222-01	BUTTON, PLAY
19	3-318-223-01	BUTTON, FF
20	3-318-228-01	BUTTON, REW
21	3-325-465-01	SPACER, STRAP
22	3-325-401-01	KNOB, TUNING
23	3-325-465-01	KNOB, PAUSE
24	3-325-403-01	(SILVER)...KNOB, SELECTION, BAND
24	3-325-403-11	(BLACK)...KNOB, SELECTION, BAND
25	3-325-404-01	(SILVER)...KNOB, SELECTION
25	3-325-404-11	(BLACK)...KNOB, SELECTION
26	3-325-405-01	SCALE, DIAL
27	3-325-406-01	POINTER
28	3-325-407-01	SHAFT, TUNING
29	3-325-408-01	RETAINER, SHAFT
30	3-325-411-01	PLATE, SELECTION, BAND
31	3-325-414-01	SPRING
32	3-325-416-01	LEVER, KNOB
33	3-325-417-01	LEVER, SELECTION
34	3-325-419-01	LEVER, SWITCH
35	*3-325-423-01	CASE, SHIELD, MOTOR
36	3-325-424-01	(SILVER)...LID, BATTERY CASE
36	3-325-424-11	(BLACK)...LID, BATTERY CASE
37	3-831-441-XX	CUSHION
38	3-325-425-01	BUTTON, STOP
39	3-325-426-01	KNOB, FUNCTION
40	3-325-427-01	DRUM, DIAL

No.	Part No.	Description
41	3-325-429-01	HOLDER, DRUM
42	3-325-431-01	HOLDER, CASSETTE (E, UK MODEL)
42	3-325-431-11	HOLDER, CASSETTE (AEP MODEL)
43	3-325-432-01	PANEL, CONTROL
44	3-325-433-01	(SILVER)... CABINET (FRONT)
44	*3-325-433-11	(BLACK)... CABINET (FRONT)
45	9-911-825-32	STRING, DIAL 0.3DIA
46	*3-325-435-01	SPRING
47	7-621-255-25	SCREW +P 2X4
48	3-570-615-00	POLY-WASHER (DIA.1.2)
49	3-590-518-00	CUSHION, MICROPHONE
50	9-911-815-01	CUSHION, METER
51	7-682-545-04	(SILVER)...SCREW +B 3X4
51	7-682-545-09	(BLACK)...SCREW +B 3X4
52	3-314-209-11	KNOB, CONTROL
53	3-325-412-01	CAP, TUNING CAPACITOR
54	*3-325-415-01	HOLDER (B), FERRITE-ROD ANTENNA
55	*3-325-430-01	HOLDER (A), FERRITE-ROD ANTENNA
56	3-325-410-21	OUTER
57	*3-325-462-01	SHEET (B), SHIELD
58	3-701-440-01	WASHER (t=0.13)
59	X-3325-410-1	(SILVER) .. CABINET ASSY (REAR) (E,UK MODEL)
59	X-3325-410-2	(BLACK) ... CABINET ASSY (REAR) (E,UK MODEL)
59	X-3325-410-5	(BLACK)...CABINET ASSY (REAR) (AEP MODEL)
59	X-3325-410-6	(SILVER)...CABINET ASSY (REAR) (AEP MODEL)
60	3-318-203-11	SCREW (1.7X6)
61	3-883-414-00	ORNAMENTAL PLATE
62	3-325-464-01	SPACER

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-325-453-01	SPACER
3-325-454-01	CUSHION
3-325-455-01	INDIVIDUAL CARTON
3-325-459-01	BAG, PROTECTION
3-527-213-00	LABEL, SERIAL NUMBER
3-701-625-00	BAG, POLYETHYLENE
3-703-895-01	(BLACK)...LABEL, COLOR
3-703-906-01	(SILVER)...LABEL, COLOR
3-703-910-01	(BLACK)...LABEL, COLOR
3-703-921-01	(SILVER)...LABEL, COLOR
3-760-335-01	MANUAL, INSTRUCTION
3-760-335-41	MANUAL, INSTRUCTION (AEP MODEL)
3-703-539-01	INSTRUCTION, FTZ (AEP MODEL)

MECHANISM SECTION

No.	Part No.	Description
301	A-3110-010-A	PINCH LEVER ASSY
302	X-3318-202-1	CLUTCH ASSY
303	X-3318-207-1	GEAR (A) ASSY, FR
304	X-3318-208-1	LEVER ASSY, FR
305	X-3318-210-1	LEVER ASSY, FWD IDLER
306	X-3318-222-1	CHASSIS ASSY, HEAD
307	X-3325-402-1	GEAR ASSY (B), REW
308	X-3325-403-1	FLYWHEEL ASSY
309	X-3325-404-1	LEVER ASSY, EJECT
310	*X-3325-405-1	LEVER ASSY, REC
311	*X-3325-406-1	CHASSIS ASSY, OUTSERT
312	3-306-836-02	CAP, REEL, T
313	3-308-472-21	WASHER (C)
313	3-308-472-31	WASHER (C)
314	3-318-204-61	SCREW (M1.7X5), TAPPING
315	3-318-236-01	WASHER, POLY, SLIT
316	3-318-237-01	SPRING, COMPRESSION
317	3-318-238-01	SPRING, TENSION
318	3-318-240-01	SCREW (1.4), SPECIAL
319	3-318-241-01	SPRING, COMPRESSION
320	3-318-242-01	BELT
321	3-318-243-01	SPRING, TENSION
322	3-318-246-01	SPRING, TENSION
323	3-318-247-01	SPRING, TENSION
324	3-318-248-01	SPRING, TENSION
325	3-318-250-01	SPRING, TENSION
326	3-318-251-01	SPRING, TENSION
327	3-318-252-01	ARM, DETECTION
328	3-318-254-01	CUSHION, MOTOR
329	3-318-265-01	GEAR (B), FR
330	*3-318-267-01	LEVER, CR
331	3-318-275-01	SPRING
332	3-318-276-01	SPRING, FF
333	3-318-277-01	SPRING, REW
334	3-318-285-01	BRACKET, ERASE HEAD
335	3-318-286-01	LEVER, ERASING PROTECTION
336	3-318-287-01	GUIDE, TAPE
337	3-318-288-01	ARM, FF
338	*3-318-290-01	LEVER, PLAY
339	3-318-291-01	LEVER, FF
340	*3-318-294-01	PLATE, LOCK
341	3-318-296-01	LEVER, SHUT-OFF
342	3-318-300-01	LEVER, SWITCH
343	3-318-309-01	SPACER, HEAD
344	*3-318-310-01	COLLAR, MOTOR
345	3-318-324-01	BUSHING, IDLER LEVER

MECHANISM SECTION

No.	Part No.	Description
346	3-318-334-01	SPRING, COMPRESSION
347	3-318-336-01	SPRING, TENSION
348	3-318-292-01	LEVER, REW
349	3-318-351-01	SPRING, TENSION
350	3-318-736-01	CLAMP, HD LEAD
351	*3-325-440-01	BRACKET, COUNTER
352	*3-325-451-01	LEVER, STOP
353	3-325-452-01	BELT
354	3-545-588-00	SPRING, TENSION
355	3-547-659-00	SPRING, TENSION
356	3-565-927-00	SPRING, TENSION
357	3-570-552-00	SPRING, TENSION
358	3-570-587-00	SPRING, TENSION
359	3-570-615-00	POLY-WASHER (DIA.1.2)
360	3-578-138-01	SEAM (t=0.1)
360	3-578-138-11	SEAM (t=0.2)
360	3-578-138-21	SEAM (t=0.3)
361	3-578-265-11	WASHER, STOPPER
362	3-701-437-01	WASHER (t=0.13)
363	3-827-323-11	WASHER (DIA. 3.1)
364	7-624-101-01	RING, RETAINING E-1.2
365	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
366	7-627-552-67	SCREW, PRECISION +P 1.7X4.5
367	7-785-851-01	SCREW +BVTT 2X4 (S)
368	7-688-001-01	W 2, SMALL
369	3-325-457-01	SPRING
370	3-701-437-11	WASHER (t=0.25)
371	3-701-437-21	WASHER (t=0.5)
372	3-701-437-41	WASHER

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-3215-712-A	MOUNTED PCB, MAIN (E MODEL)
901	*A-3215-812-A	MOUNTED PCB, MAIN (AEP MODEL)
901	*A-3215-813-A	MOUNTED PCB, MAIN (UK MODEL)
902	*1-615-058-11	PC BOARD, LED
903	1-615-059-11	PC BOARD, BATTERY TERMINAL (+)
904	1-615-060-11	PC BOARD, BATTERY TERMINAL (-)
905	*1-615-061-11	PC BOARD, PAUSE
906	1-548-558-41	TIMER, TAPE
907	*1-535-149-11	WIRE (30.0MM)
908	*1-535-303-00	WIRE, JUMPER
ANT1	1-402-146-11	ANTENNA, FERRITE-ROD (MW)
ANT901	1-501-280-00	ANTENNA, TELESCOPIC
C1	1-102-515-00	CERAMIC 24PF 5% 50V
C2	1-102-806-00	CERAMIC 27PF 5% 50V (E,UK MODEL)
C2	1-102-962-00	CERAMIC 30PF 5% 50V (AEP MODEL)
C3	1-102-742-00	CERAMIC 2PF 0.25PF 50V (E,UK MODEL)
C3	1-102-406-21	CERAMIC 2PF 0.25PF 50V (AEP MODEL)
C4	1-123-611-00	ELECT 1MF 20% 50V
C5	1-123-616-00	ELECT 4.7MF 20% 25V
C6	1-162-306-31	CERAMIC 0.01MF 20% 16V
C7	1-162-306-31	CERAMIC 0.01MF 20% 16V
C8	1-123-617-00	ELECT 10MF 20% 16V
C9	1-162-306-31	CERAMIC 0.01MF 20% 16V
C10	1-123-617-00	ELECT 10MF 20% 16V
C11	1-161-017-00	CERAMIC 0.022MF 10% 25V
C12	1-123-661-00	ELECT 100MF 20% 6.3V
C13	1-162-306-31	CERAMIC 0.01MF 20% 16V
C14	1-123-607-00	ELECT 0.1MF 20% 50V
C15	1-162-303-31	CERAMIC 0.0033MF 20% 16V
C16	1-162-209-31	CERAMIC 27PF 5% 50V
C17	1-162-294-31	CERAMIC 0.001MF 10% 50V
C18	1-101-998-00	CERAMIC 6PF 0.5PF 50V
C19	1-101-974-00	CERAMIC 20PF 5% 50V
C20	1-101-974-00	CERAMIC 20PF 5% 50V
C21	1-102-641-00	CERAMIC 22PF 5% 50V
C22	1-102-880-00	CERAMIC 15PF 5% 50V
C23	1-102-748-00	CERAMIC 11PF 5% 50V
C24	1-102-745-00	CERAMIC 7PF 0.5PF 50V
C25	1-162-306-31	CERAMIC 0.01MF 20% 16V
C101	1-123-607-00	ELECT 0.1MF 20% 50V
C102	1-123-607-00	ELECT 0.1MF 20% 50V
C103	1-123-661-00	ELECT 100MF 20% 6.3V
C104	1-161-004-00	CERAMIC 0.0018MF 10% 25V
C105	1-123-617-00	ELECT 10MF 20% 16V
C106	1-162-294-31	CERAMIC 0.001MF 10% 50V
C107	1-123-611-00	ELECT 1MF 20% 50V
C108	1-123-617-00	ELECT 10MF 20% 16V
C109	1-162-303-31	CERAMIC 0.0033MF 20% 16V
C110	1-123-616-00	ELECT 4.7MF 20% 25V
C111	1-162-287-31	CERAMIC 270PF 10% 50V
C112	1-123-611-00	ELECT 1MF 20% 50V
C113	1-123-611-00	ELECT 1MF 20% 50V
C114	1-162-290-31	CERAMIC 470PF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C115	1-161-017-00	CERAMIC 0.022MF 10% 25V
C116	1-123-611-00	ELECT 1MF 20% 50V
C117	1-123-661-00	ELECT 100MF 20% 6.3V
C118	1-123-647-00	ELECT 47MF 20% 6.3V
C119	1-162-287-31	CERAMIC 270PF 10% 50V
C120	1-162-306-31	CERAMIC 0.01MF 20% 16V
C121	1-123-617-00	ELECT 10MF 20% 16V
C122	1-123-647-00	ELECT 47MF 20% 6.3V
C123	1-123-647-00	ELECT 47MF 20% 6.3V
C124	1-162-290-31	CERAMIC 470PF 10% 50V
C125	1-123-661-00	ELECT 100MF 20% 6.3V
C126	1-123-827-00	ELECT 220MF 20% 4V
C127	1-123-661-00	ELECT 100MF 20% 6.3V
C128	1-106-188-00	MYLAR 0.0047MF 5% 100V
C129	1-162-294-31	CERAMIC 0.001MF 10% 50V
C130	1-162-286-31	CERAMIC 220PF 10% 50V
C131	1-123-618-00	ELECT 22MF 20% 6.3V
C132	1-123-298-00	ELECT 470MF 20% 6.3V
C133	1-161-039-00	CERAMIC 0.001MF 10% 50V
C134	1-123-616-00	ELECT 4.7MF 20% 25V
C135	1-123-618-00	ELECT 22MF 20% 6.3V
C136	1-123-618-00	ELECT 22MF 20% 6.3V
C136	1-123-647-00	ELECT 47MF 20% 6.3V
C137	1-162-294-31	CERAMIC 0.001MF 10% 50V
C138	1-162-286-31	CERAMIC 220PF 10% 50V
C139	1-161-024-00	CERAMIC 0.082 10% 25V (AEP MODEL)
CF1	1-567-166-00	FILTER, CERAMIC
CF2	1-567-166-00	FILTER, CERAMIC
CF3	1-527-290-00	FILTER, CERAMIC (E, AEP MODEL)
CF3	1-567-124-00	FILTER, CERAMIC (UK MODEL)
CN101	1-507-563-00	DC JACK
CT5	1-141-257-00	CAP, TRIMMER
CV1	1-151-459-21	CAP, TUNING, POLYETHYLENE
D1	8-719-901-96	DIODE SLP161B (TUNING)
D3	8-719-911-19	DIODE 1SS119
D4	8-719-911-19	DIODE 1SS119
D101	8-719-911-19	DIODE 1SS119
D102	8-719-911-19	DIODE 1SS119
D701	8-719-104-37	DIODE SR506D (REC/BATT)
FL1	1-235-171-00	FILTER, BAND PASS
HE901	8-658-096-02	HEAD, ERASE EBF5-36
HRP901	8-829-336-35	HEAD (PP134-36T)
IC1	8-752-011-11	IC CX20111
IC101	8-759-915-24	IC BA5101
IC102	8-759-952-60	IC BA526
IFTA1	1-404-398-00	TRANSFORMER, IF

ELECTRICAL PARTS

Ref.No.	Part No.	Description
J101	1-507-578-00	JACK
J102	1-507-578-00	JACK
L1	1-425-350-00	COIL, HIGH FREQUENCY (FM)
L2	1-459-418-00	COIL (WITH CORE)
L5	1-406-040-00	COIL (OSC)
L6	1-402-095-11	COIL, ANT (SW 1)
L7	1-402-096-11	COIL, ANT (SW 2)
L8	1-402-097-11	COIL, ANT (SW 3)
L9	1-402-098-11	COIL, ANT (SW 4)
L10	1-402-099-11	COIL, ANT (SW 5)
L11	1-406-137-11	COIL, OSC (SW 1)
L12	1-406-138-11	COIL, OSC (SW 2)
L13	1-406-139-11	COIL, OSC (SW 3)
L14	1-406-140-11	COIL, OSC (SW 4)
L15	1-406-141-11	COIL, OSC (SW 5)
L101	1-407-173-XX	MICRO INDUCTOR 220 μ H (AEP MODEL)
M901	8-835-137-01	MOTOR, DC (ONE-5600C)
MIC901	8-814-186-00	MICROPHONE UNIT (C-1014)
Q101	8-729-606-33	TRANSISTOR 2SC2603-F
Q102	8-729-606-33	TRANSISTOR 2SC2603-F
Q103	8-729-606-33	TRANSISTOR 2SC2603-F
Q104	8-729-181-13	TRANSISTOR 2SB811
Q105	8-729-204-83	TRANSISTOR 2SA1048GR
Q107	8-729-606-33	TRANSISTOR 2SC2603-F
Q108	8-729-606-33	TRANSISTOR 2SC2603-F
Q109	8-729-606-33	TRANSISTOR 2SC2603-F
Q110	8-729-606-33	TRANSISTOR 2SC2603-F
Q111	8-729-606-33	TRANSISTOR 2SC2603-F
R1	1-247-879-00	CARBON 100K 5% 1/6W
R2	1-247-839-00	CARBON 2.2K 5% 1/6W
R3	1-247-807-00	CARBON 100 5% 1/6W
R4	1-247-849-00	CARBON 5.6K 5% 1/6W
R5	1-247-831-00	CARBON 1K 5% 1/6W
R6	1-247-855-11	CARBON 10K
R7	1-247-799-00	CARBON 47 5% 1/6W
R8	1-247-863-00	CARBON 22K 5% 1/6W
R9	1-247-879-00	CARBON 100K 5% 1/6W
R101	1-247-827-00	CARBON 680 5% 1/6W
R102	1-247-831-00	CARBON 1K 5% 1/6W
R103	1-247-831-00	CARBON 1K 5% 1/6W
R104	1-247-831-00	CARBON 1K 5% 1/6W
R105	1-247-855-00	CARBON 10K 5% 1/6W
R106	1-247-849-00	CARBON 5.6K 5% 1/6W
R107	1-247-847-00	CARBON 4.7K 5% 1/6W
R108	1-247-887-00	CARBON 220K 5% 1/6W
R109	1-247-833-00	CARBON 1.2K 5% 1/6W
R110	1-247-857-00	CARBON 12K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R111	1-247-831-00	CARBON 1K 5% 1/6W
R112	1-247-867-00	CARBON 33K 5% 1/6W
R113	1-247-813-00	CARBON 180 5% 1/6W
R114	1-247-867-00	CARBON 33K 5% 1/6W
R115	1-247-867-00	CARBON 33K 5% 1/6W
R116	1-247-855-00	CARBON 10K 5% 1/6W
R117	1-247-847-00	CARBON 4.7K 5% 1/6W
R118	1-247-849-00	CARBON 5.6K 5% 1/6W
R119	1-247-807-00	CARBON 100 5% 1/6W
R120	1-247-855-00	CARBON 10K 5% 1/6W
R121	1-247-855-00	CARBON 10K 5% 1/6W
R123	1-247-855-00	CARBON 10K 5% 1/6W
R124	1-247-807-00	CARBON 100 5% 1/6W
R127	1-247-799-00	CARBON 47 5% 1/6W
R128	1-247-867-00	CARBON 33K 5% 1/6W
R129	1-247-817-00	CARBON 270 5% 1/6W
R130	1-247-819-00	CARBON 330 5% 1/6W
R131	1-247-855-00	CARBON 10K 5% 1/6W
R132	1-247-867-00	CARBON 33K 5% 1/6W
R133	1-247-849-00	CARBON 5.6K 5% 1/6W
R134	1-247-827-00	CARBON 680 5% 1/6W
R135	1-247-865-00	CARBON 27K 5% 1/6W
R136	1-247-879-00	CARBON 100K 5% 1/6W
R137	1-247-879-00	CARBON 100K 5% 1/6W
R138	1-247-879-00	CARBON 100K 5% 1/6W
R139	1-202-467-17	SOLID 3.3M 5% 1/4W
R140	1-216-294-00	METAL CHIP 10M 5% 1/8W
R141	1-216-294-11	METAL CHIP 10M
R142	1-247-863-00	CARBON 22K 5% 1/6W
R143	1-247-831-00	CARBON 1K 5% 1/6W
R144	1-247-849-00	CARBON 5.6K 5% 1/6W
R145	1-247-863-00	CARBON 22K 5% 1/6W
R146	1-247-847-00	CARBON 4.7K 5% 1/6W
RV101	1-230-071-00	RES, VAR, CARBON 20K (VOLUME)
S1	1-554-509-21	SWITCH, SLIDE (BAND)
S2	1-553-961-00	SWITCH, SLIDE (SW BAND)
S101	1-570-162-11	SEITCH, SLIDE (FUNCTION)
S102	1-570-194-11	SWITCH, SLIDE (REC/PB)
S103	1-554-123-00	SWITCH, SLIDE (TONE)
S104	1-554-123-00	SWITCH, SLIDE (ISS)
S105	1-554-024-00	SWITCH, LEAF (POWER)
S701	1-553-510-00	SWITCH, SLIDE (PAUSE)
SP901	1-503-449-11	SPEAKER
T101	1-433-255-00	TRANSFORMER, BIAS OSCILLATOR