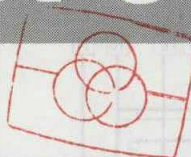


# CFS-1000L

## SERVICE MANUAL



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### SPECIFICATIONS

Tape Transport Mechanism Type MF-1000-75D

#### Tuner frequency range

	FM	MW	LW	SW
Europe, United Kingdom	87.6—107 MHz	530—1605 kHz	150—285 kHz	5.95—18 MHz
Italy	87.5—108 MHz	526.5—1606.5 kHz	148.5—283.5 kHz	

**Antennas** FM/SW: Telescopic  
MW/LW: Built-in ferrite bar

**Frequency response** 80—8,000 Hz

**Speakers** Two way: tweeter 2 cm (3/4 in.) dia.  
woofer 10 cm (4 in.) dia.  
Impedance: 3.2 ohms  
Nominal power handling capacity: 2.5 W  
Maximum power handling capacity: 4 W

**Peak music power output** 12 W (6 W+6 W)

**Inputs** Two external microphone input jacks (minijack)  
sensitivity 0.775 mV for low impedance microphone

**Outputs** Headphones jack (stereo minijack) for 8—300 ohm impedance headphones  
Speaker terminals for supplied 3.2 ohm impedance speaker

#### Power requirements and consumption

	Requirements	Consumption
European model	220 V AC, 50 Hz	14 W
United Kingdom model	240 V AC, 50 Hz	18 W

9 V DC, six R20 (Size D)

#### Battery life

Batteries	FM recording
Sony SUM-1 (NS)	approx. 17 hours
Sony AM1 alkaline	approx. 30 hours

#### Dimensions

Approx. 501 × 179 × 168 mm (w/h/d)  
(19-3/4 × 7-1/8 × 6-5/8 inches)  
incl. speakers, projecting parts and controls, not incl. handle  
Approx. 4.0 kg (8 lb 13 oz) incl. speakers, batteries

#### Weight



### TABLE OF CONTENTS

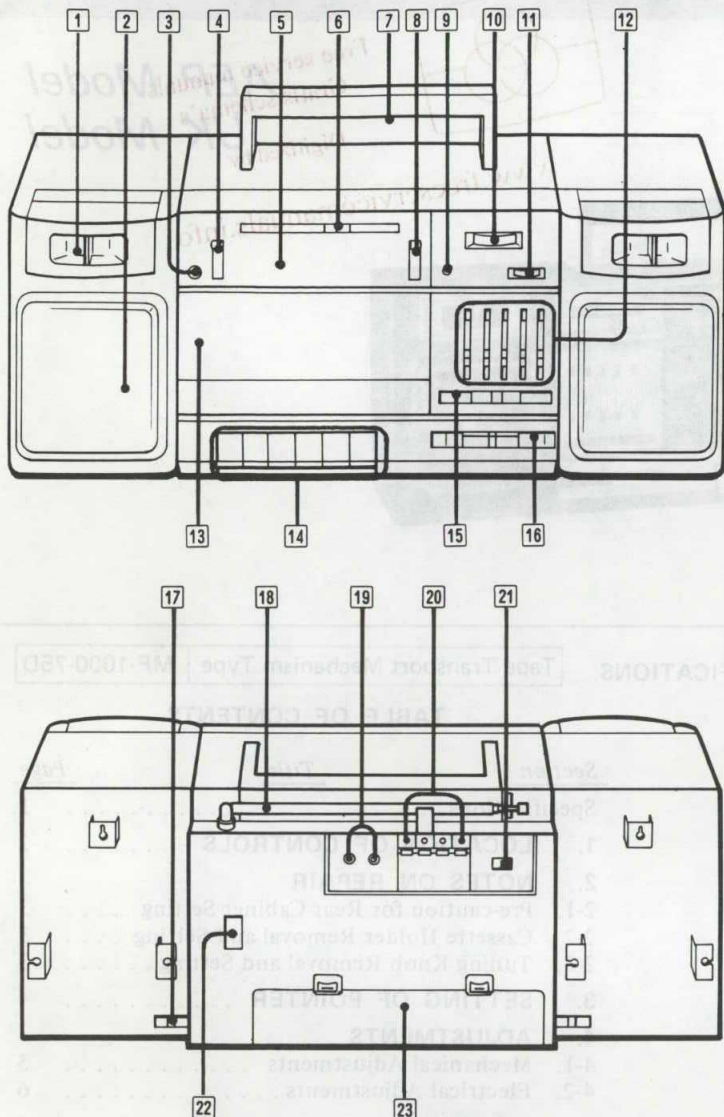
Section	Title	Page
	Specifications	1
<b>1.</b>	<b>LOCATION OF CONTROLS</b>	2
2-1.	Pre-caution for Rear Cabinet Setting	3
2-2.	Cassette Holder Removal and Setting	3
2-3.	Tuning Knob Removal and Setting	3
<b>3.</b>	<b>SETTING OF POINTER</b>	4
<b>4.</b>	<b>ADJUSTMENTS</b>	
4-1.	Mechanical Adjustments	5
4-2.	Electrical Adjustments	6
<b>5.</b>	<b>DIAGRAMS</b>	
5-1.	Semiconductor Lead Layouts	10
5-2.	IC Block Diagram	10
5-3.	Mounting Diagram	11
5-4.	Schematic Diagram	13
<b>6.</b>	<b>EXPLODED VIEWS</b>	16
<b>7.</b>	<b>ELECTRICAL PARTS LIST</b>	20

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK 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.

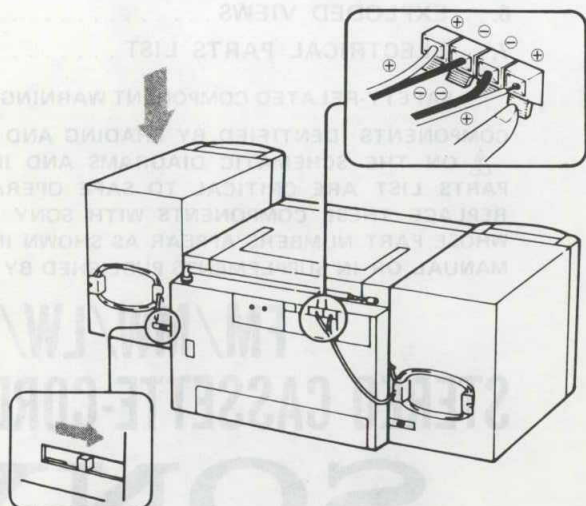
**FM/MW/LW/SW**  
**STEREO CASSETTE-CORDER**  
**SONY®**

## SECTION 1 LOCATION OF CONTROLS



- 1 Tweeter**
- 2 Woofer**
- 3 PHONES jack (stereo minijack)**
- 4 FUNCTION selector (RADIO/TAPE (RADIO OFF))**  
Switch the unit to TAPE (RADIO OFF) when not in use.
- 5 OPR/BATT indicator**  
Shows unit is in use. When indicator glows faintly, change all batteries.
- 6 Dial scale**
- 7 Handle**
- 8 BAND selector (FM/MW/LW/SW)**
- 9 FM STEREO indicator**  
Lights to show stereo reception. Use to find best tuning.
- 10 TUNING dial**  
Turn to select the frequency of the desired station.
- 11 FINE TUNING dial**  
For extra-sharp short wave reception.
- 12 5 BAND GRAPHIC EQUALIZER controls \***  
Use to tailor tone response to listening room or listening material.
- 13 Cassette holder**
- 14 Tape operation buttons**
  - ▲ STOP/EJECT
  - RECORD—pressing this will automatically depress ► PLAY.
  - PLAY
  - ◄◄ REW/REVIEW (Rewind/review)
  - FF/CUE (Fast-forward/cue)
  - (note: ◄◄ and ►► do NOT release automatically at tape end.)
  - ⏸ PAUSE
- 15 BALANCE control**  
Use to adjust stereo imaging, especially when speakers are not symmetrically placed.
- 16 VOLUME control**
- 17 Speaker lock**
- 18 Telescopic antenna**
- 19 EXT MIC (external microphone input) jacks**  
Left and right minijacks. Use to record sound from external microphone(s).
- 20 SPEAKER terminals**
- 21 ISS/FM MODE (Interference suppress/FM stereo-mono) switch**  
Selects between stereo and mono during FM play, and between ISS positions 1 and 2 during MW, LW and SW play.
- 22 AC IN socket**
- 23 Battery compartment**

### SPEAKER SYSTEM CONNECTION



※

#### Graphic equalizer adjustments

These are the frequency coverages of the equalizer controls.

100 Hz: bass.

400 Hz: speaking voice, middle frequencies of instrumental music.

1 kHz: singing vocals. Boost for increased "presence."

4 kHz: overall brightness of sound.

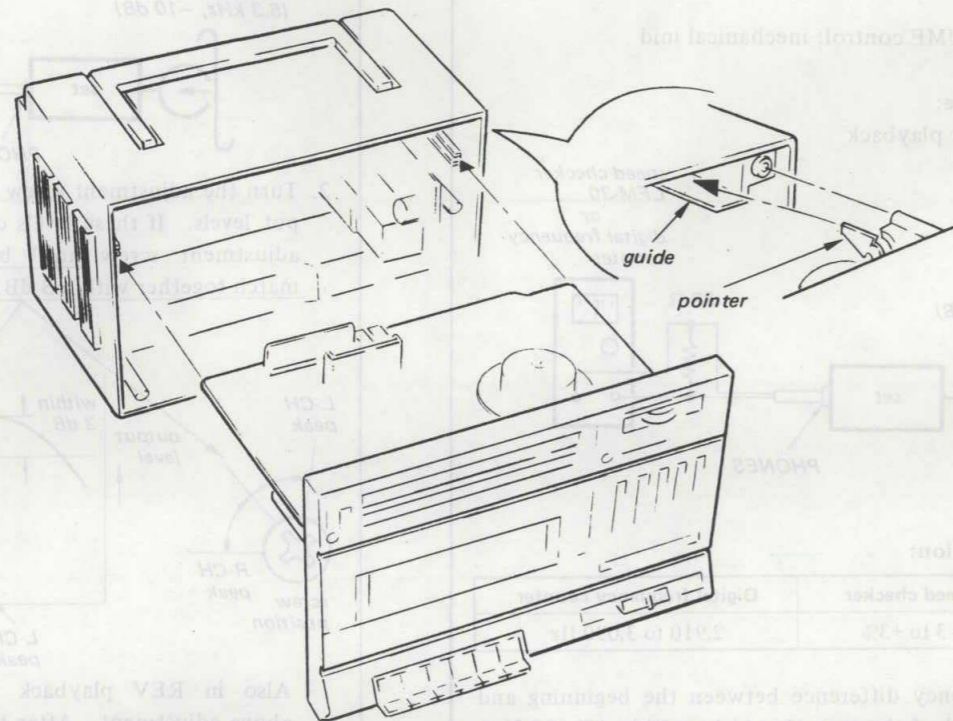
10 kHz: general treble. Lower to reduce noise.

Raise control to emphasize a frequency band, lower to deemphasize. With the unit playing, adjust each control until the desired effect is achieved. Start with controls at 0.

### SECTION 2 NOTES ON REPAIR

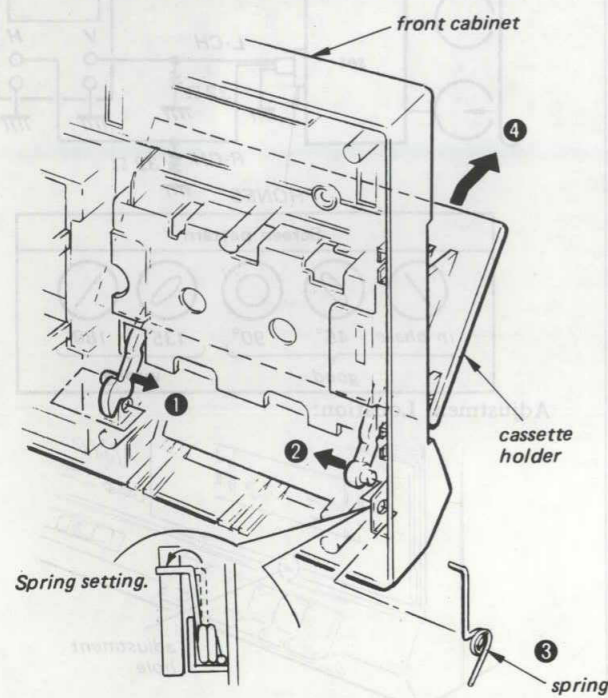
#### 2-1. PRE-CAUTION FOR REAR CABINET SETTING

1. Insert the edge of the pointer in the rear cabinet guide.
2. Insert the both side of main board in the rear cabinet hole.



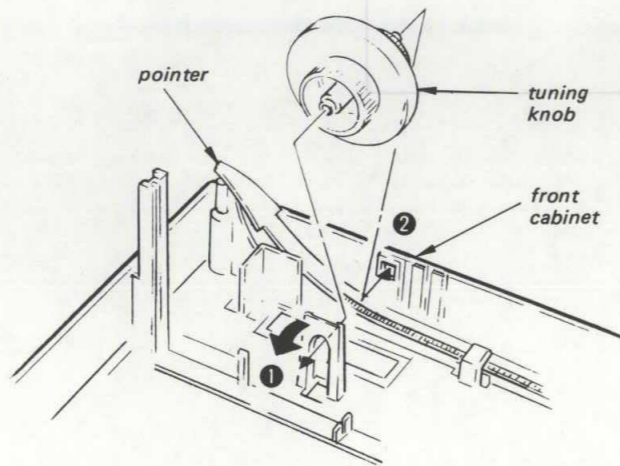
#### 2-2. CASSETTE HOLDER REMOVAL AND SETTING

- Remove in numerical order.



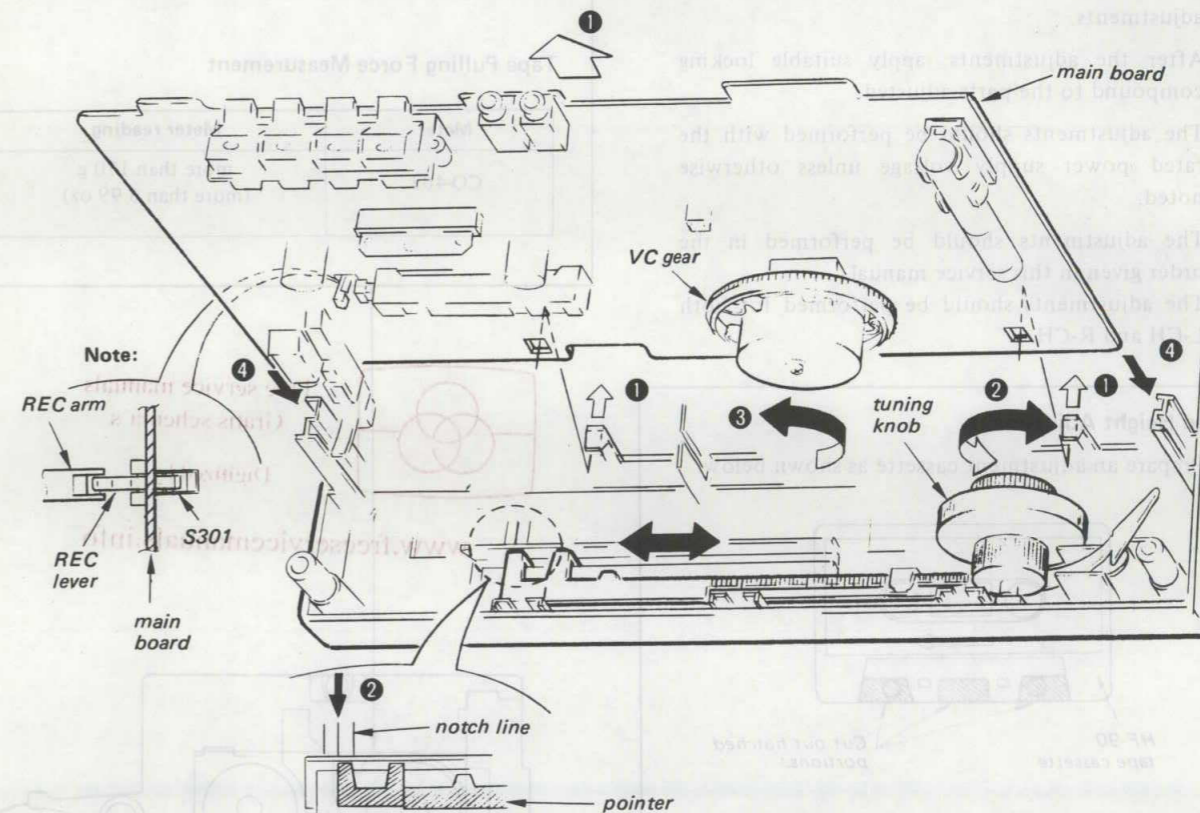
#### 2-3. TUNING KNOB REMOVAL AND SETTING

- Remove in numerical order.
- When setting, check that the tuning knob is completely in the hole.



### SECTION 3 SETTING OF POINTER

- 1 Release the two locks of main board, then slightly hold up.
  - 2 Turn the tuning knob right and left, then adjust the pointer to the notch line (← side).
  - 3 Fully turn the VC gear counterclockwise.
  - 4 Lock it by pushing main board.
- Note:** Check that the REC arm gear into the REC lever.



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SECTION 4  
ADJUSTMENTS

4-1. 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.
- The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

Torque Measurement

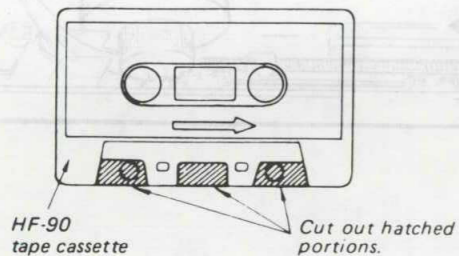
Torque	Torque meter	Meter reading
Forward	CQ-102C	25-50 g·cm (0.35-0.69 oz·inch)
Fast Forward, Rewind	CQ-201B	65-110 g·cm (0.9-1.53 oz·inch)
Back Tension	CQ-102C	2-5 g·cm (0.03-0.07 oz·inch)

Tape Pulling Force Measurement

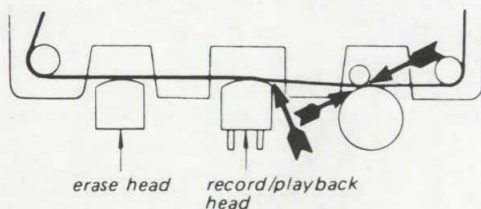
Meter	Meter reading
CQ-403	more than 170 g (more than 5.99 oz)

Head Height Adjustment

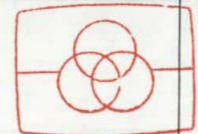
- Prepare an adjustment cassette as shown below.



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

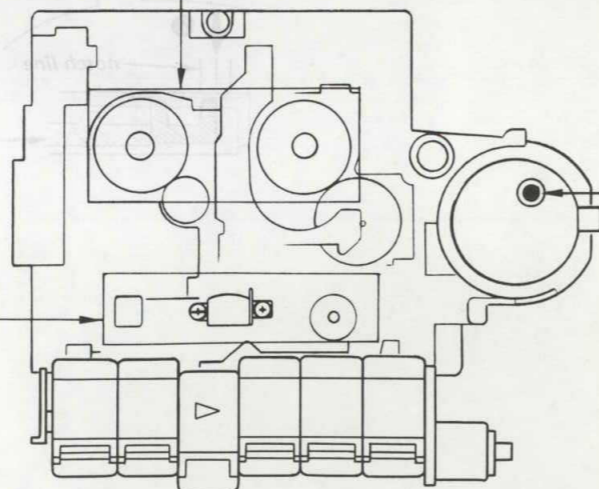


- 3-578-138-01 (t = 0.1)
  - 3-578-138-11 (t = 0.2)
  - 3-578-138-21 (t = 0.3)
- Shim, head height adjustment



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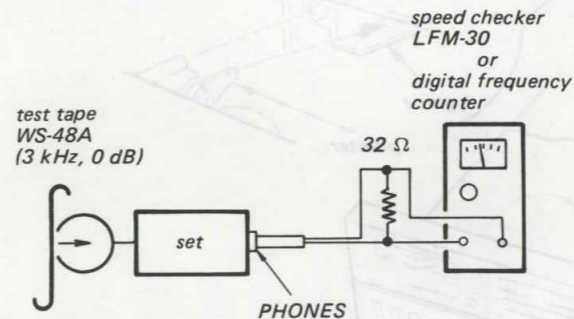
4-2. ELECTRICAL ADJUSTMENTS

CASSETTE SECTION

Tape Speed Adjustment

Setting:  
VOLUME control: mechanical mid

Procedure:  
Mode: playback



Specification:

Speed checker	Digital frequency counter
-3 to +3%	2,910 to 3,090 Hz

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

Adjustment Location:

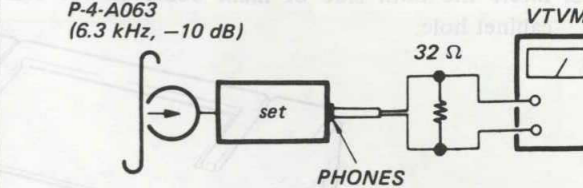
tape speed adjustment control inside motor

Record/playback Head Azimuth Adjustment

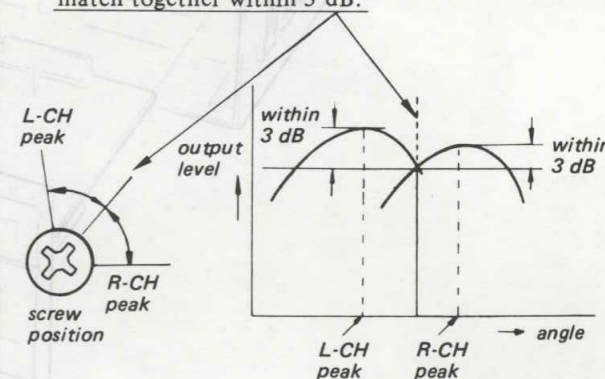
Procedure:

- Mode: FWD playback

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

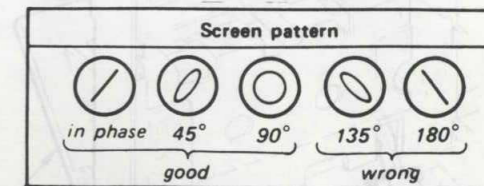
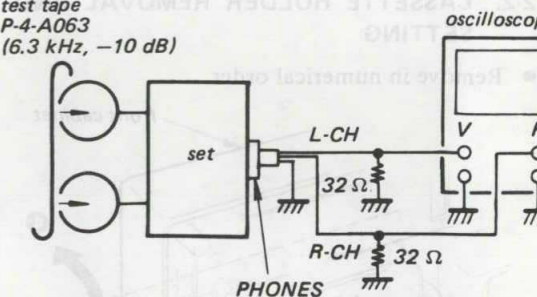


- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 3 dB.

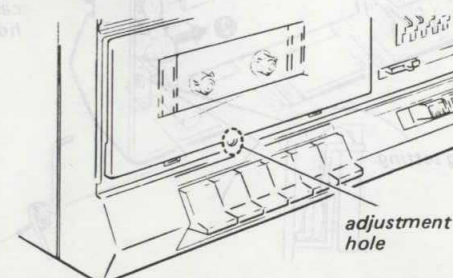


Also in REV playback mode, perform the above adjustment. After the adjustment, confirm to obtain the specification in FWD playback mode again.

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

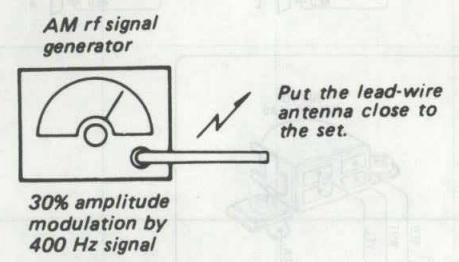


Adjustment Location:



**RADIO SECTION**

• **AM SECTION**  
FUNCTION switch: LW, MW, SW



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

**LW TRACKING ADJUSTMENT**  
Adjust for a maximum reading on VTVM.

160 kHz	L6-2
260 kHz	CT6

295 kHz	CT8
145 kHz	L10

Adjust for a maximum reading on VTVM.

**LW FREQUENCY CONVERGENCE ADJUSTMENT**

5.95 MHz	L9
18.05 MHz	CT7

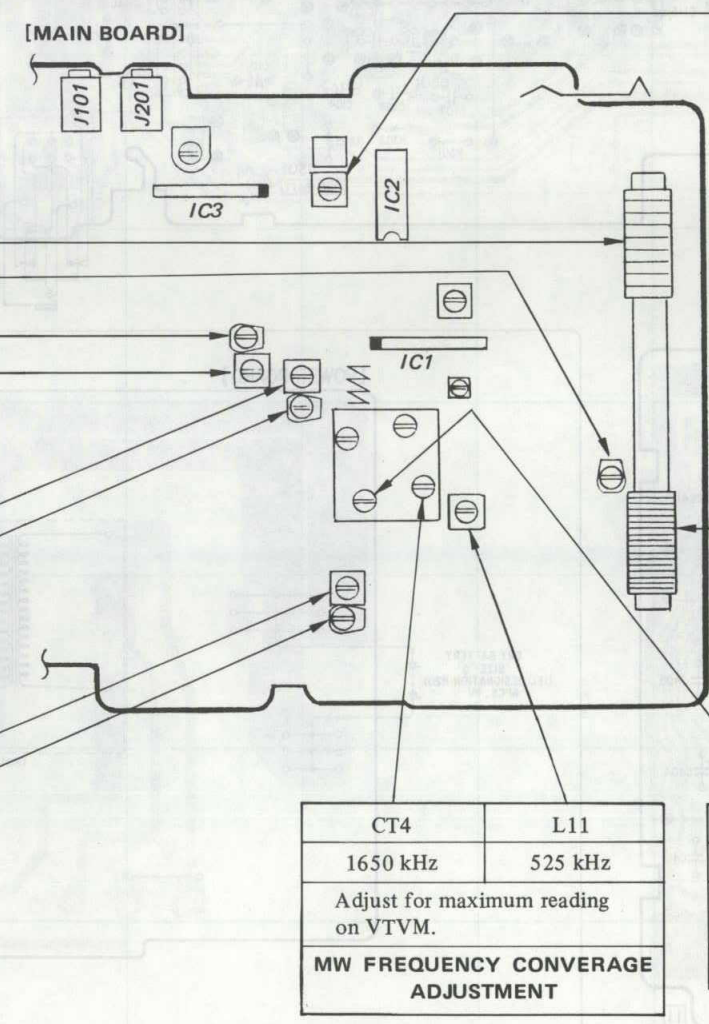
Adjust for maximum reading on VTVM.

**SW FREQUENCY CONVERGENCE ADJUSTMENT**

7 MHz	L5
14 MHz	CT5

Adjust for maximum reading on VTVM.

**SW TRACKING ADJUSTMENT**



T3	455 kHz
----	---------

Adjust for maximum reading on VTVM.

**AM IF ADJUSTMENT**

CT4	L11
1650 kHz	525 kHz

Adjust for maximum reading on VTVM.

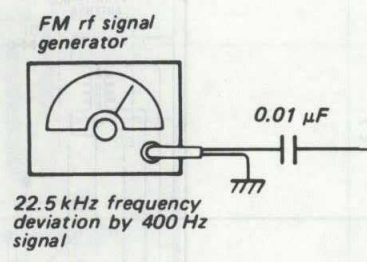
**MW FREQUENCY CONVERGENCE ADJUSTMENT**

CT3	L6-1
1400 kHz	600 kHz

Adjust for maximum reading on VTVM.

**MW TRACKING ADJUSTMENT**

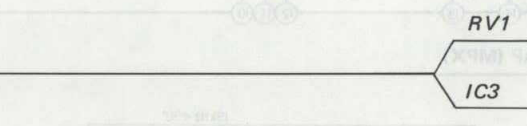
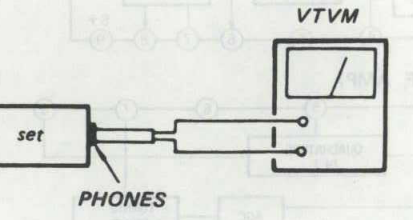
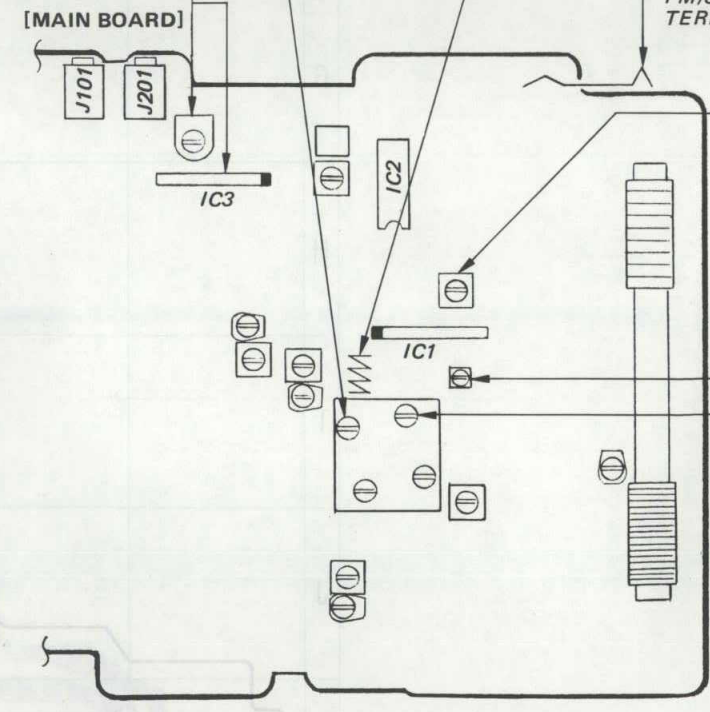
• **FM SECTION**  
FUNCTION switch: FM



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

**FM TRACKING ADJUSTMENT**  
Adjust for maximum reading on VTVM.

106 MHz	88 MHz
CT1	L1



T1	10.7 MHz
----	----------

Adjust for maximum reading on VTVM.

**FM IF ADJUSTMENT**

L2	87.35 MHz
CT2	107.8 MHz

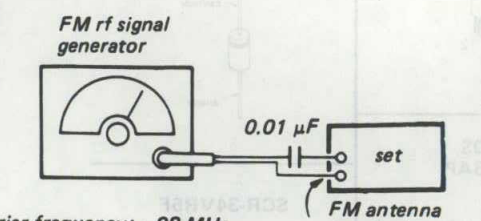
Adjust for maximum reading on VTVM.

**FM FREQUENCY CONVERGENCE ADJUSTMENT**

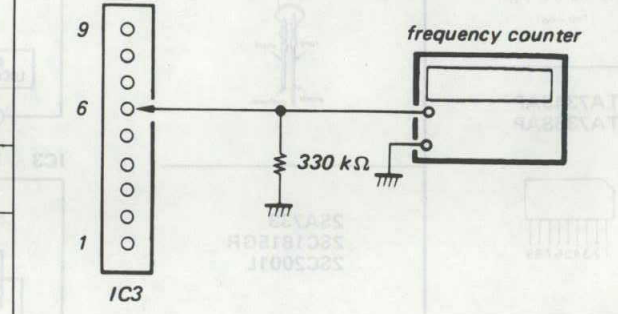
**VCO Adjustment**

**A) Regular Method**

Procedure:



Carrier frequency: 98 MHz  
Modulation: 400 Hz, 30%  
Output level: 562 µV (55 dB)

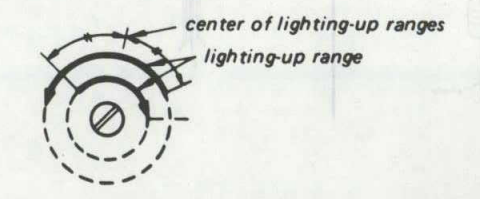


1. Turn the set to 98 MHz.
2. Adjust RV1 for 38 kHz ±0.2 kHz on the counter.

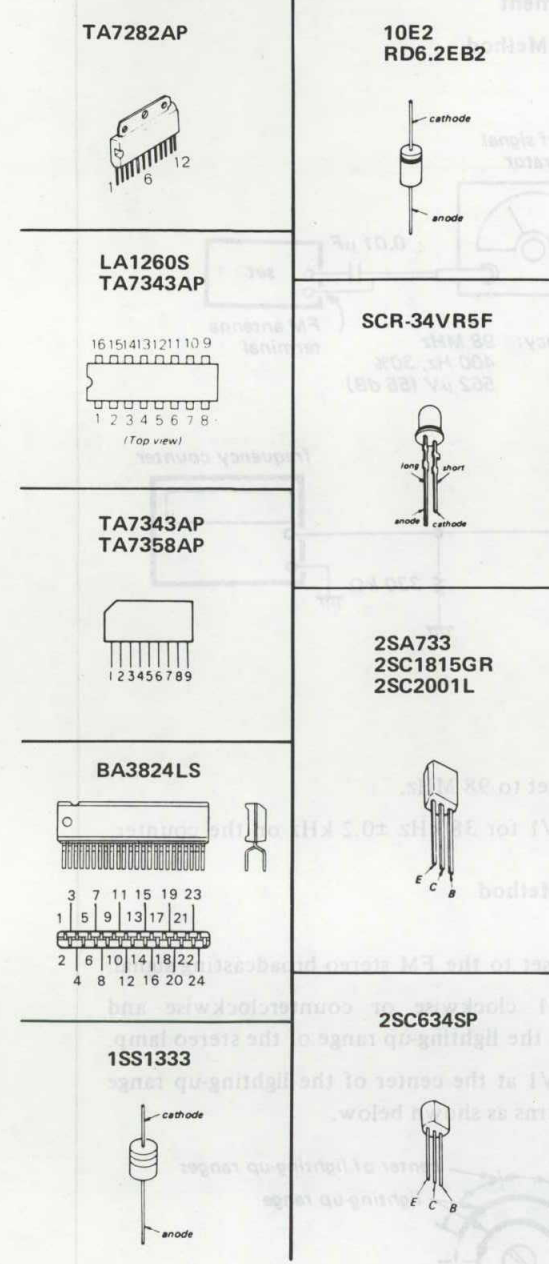
**B) Simple Method**

Procedure:

1. Turn the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



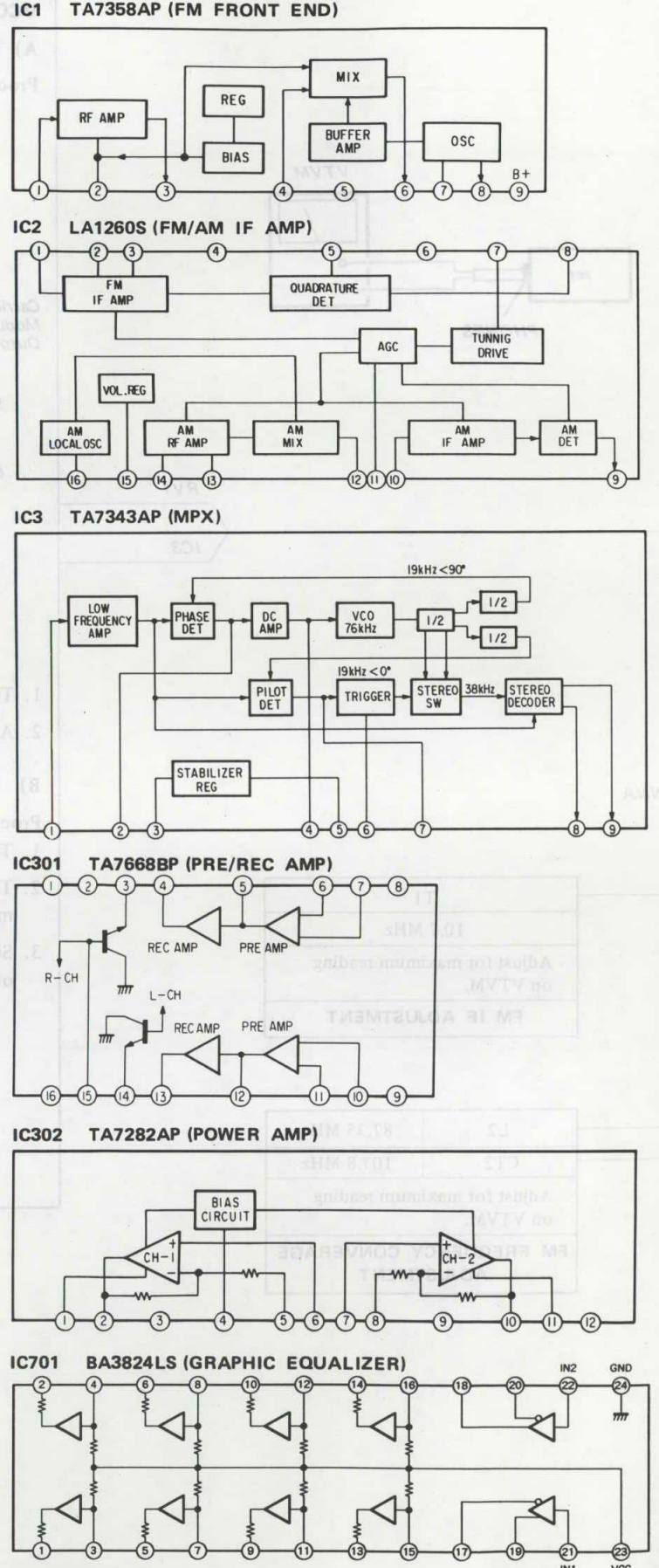
5-1. SEMICONDUCTOR LEAD LAYOUTS



- Note:**
- Color code or 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.
  - ⊙ : indicates side identified with part number.
  - ⊗ : Through hole.
  - ▨ : component-side pattern.
  - : Printed resistor.

SECTION 5  
DIAGRAMS

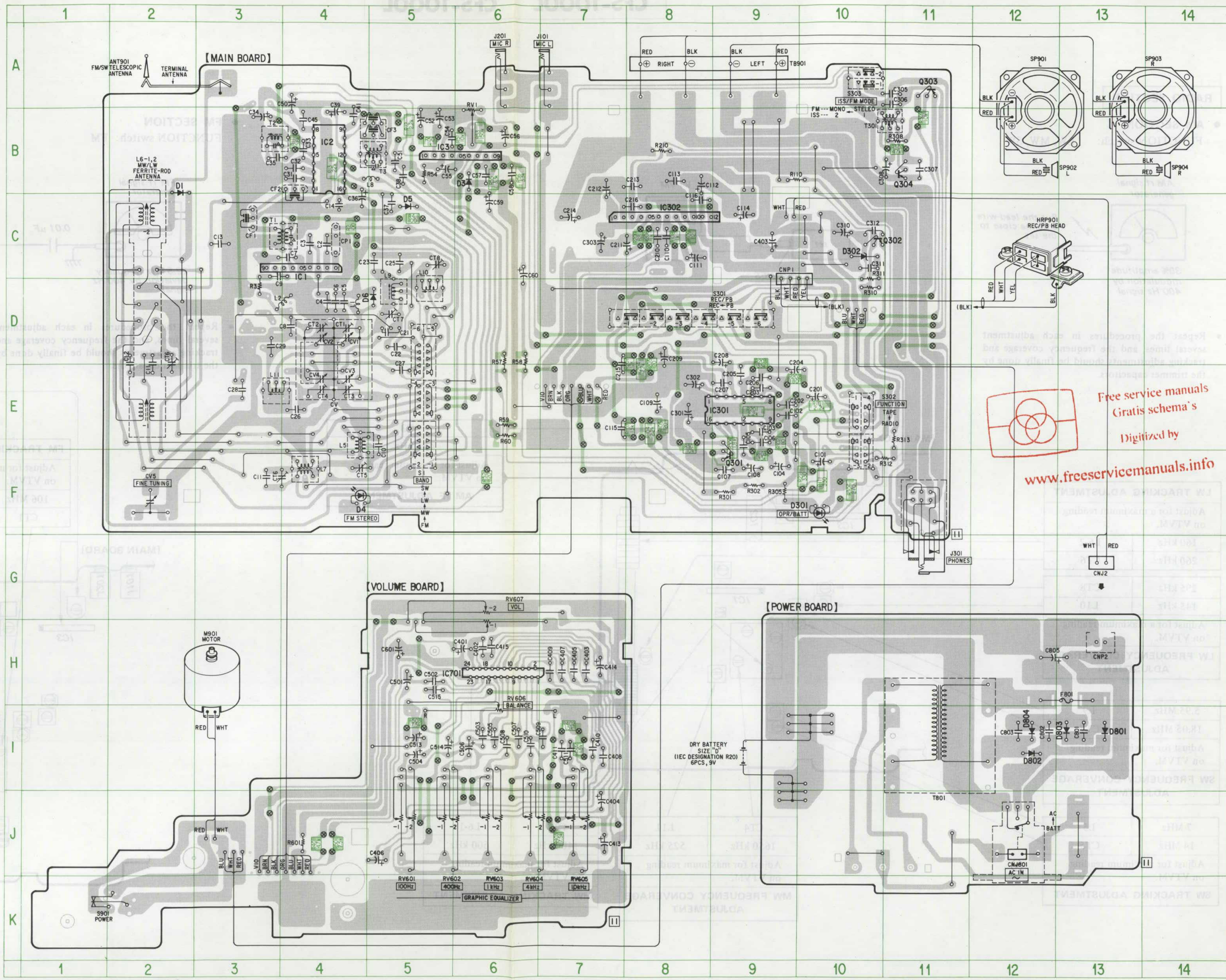
5-2. IC BLOCK DIAGRAM



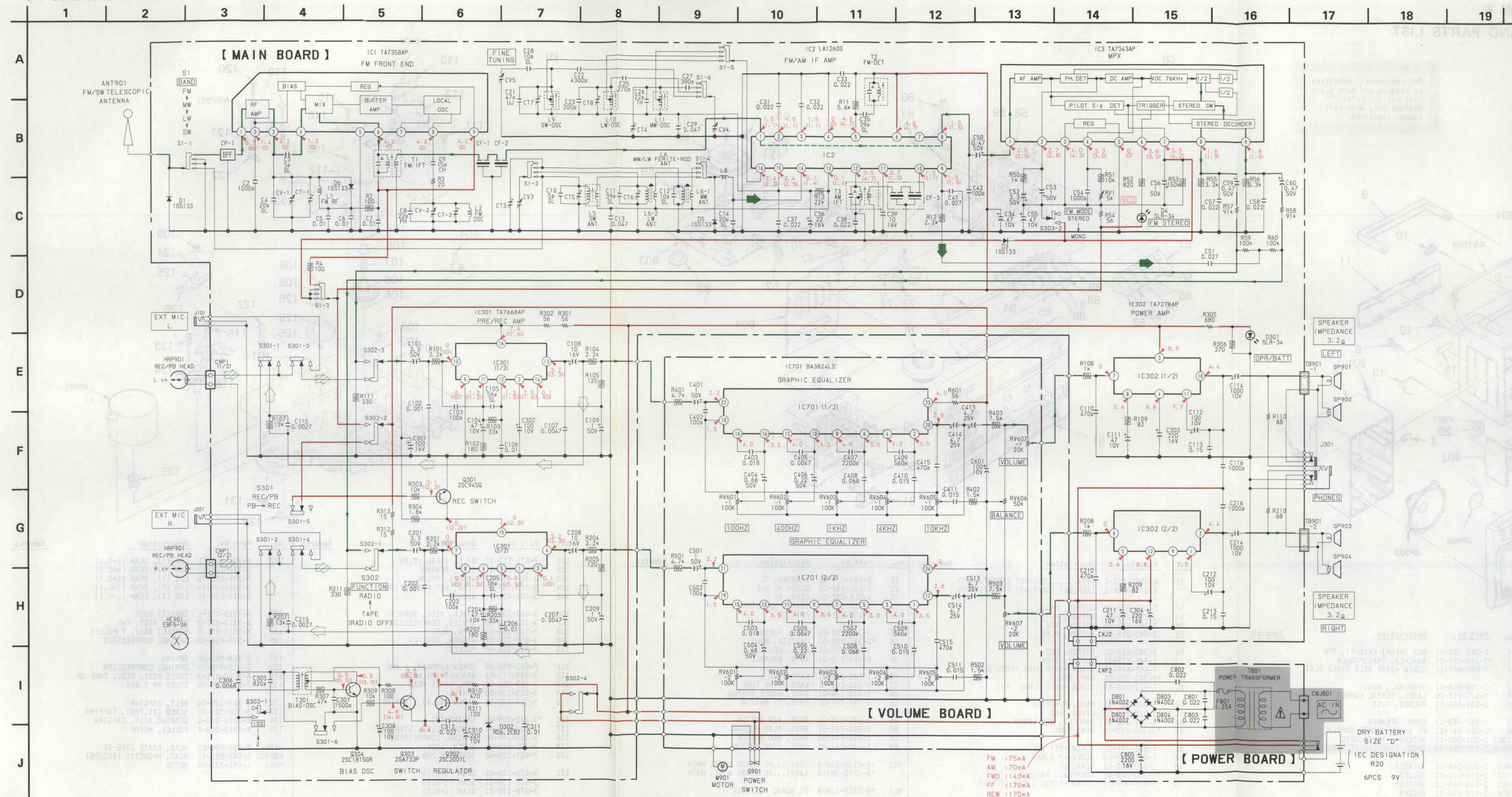
5-3. MOUNTING DIAGRAM

● SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	C-2
D3	B-5
D4	F-4
D5	C-5
D6	D-4
D301	F-9
D302	C-10
D801	I-13
D802	I-13
D803	I-13
D804	I-13
IC1	C-3
IC2	B-4
IC3	B-5
IC301	E-9
IC302	C-8
IC701	J-3
Q301	F-8
Q302	C-10
Q303	B-11
Q304	B-11



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- Note:**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} = \mu\text{F} \times 10^{-6}$  or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
  - $\Delta$ : internal component.
  - $\square$ : printed resistor.
  - $\rightarrow$ : FM signal path & AUDIO signal path.
  - $\rightarrow$ : AM signal path.
  - $\rightarrow$ : PB signal path.
  - $\rightarrow$ : REC signal path.
  - $\rightarrow$ : B+ bus.
  - $\square$ : adjustment for repair.
  - Total current is measured with no cassette installed.
  - Readings are taken under no-signal conditions with a VOM (50  $\text{k}\Omega/\text{V}$ ).
  - no mark: FM or TAPE  
( ): MW  
( ): REC
  - Voltage variations may be noted due to normal production tolerances.
  - Power voltage is 9 V and fed with regulated dc power supply from battery terminal.
  - Switch

Ref. No.	Switch	Position
S1	BAND	FM
S301	REC/PB	PB
S302	FUNCTION	TAPE
S901	POWER	OFF

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

FM : 75mA  
AM : 70mA  
FD : 140mA  
FW : 170mA  
REW : 170mA  
REC : 155mA

BIAS OSC  
SWITCH  
REGULATOR


POWER TRANSFORMER  
AC IN

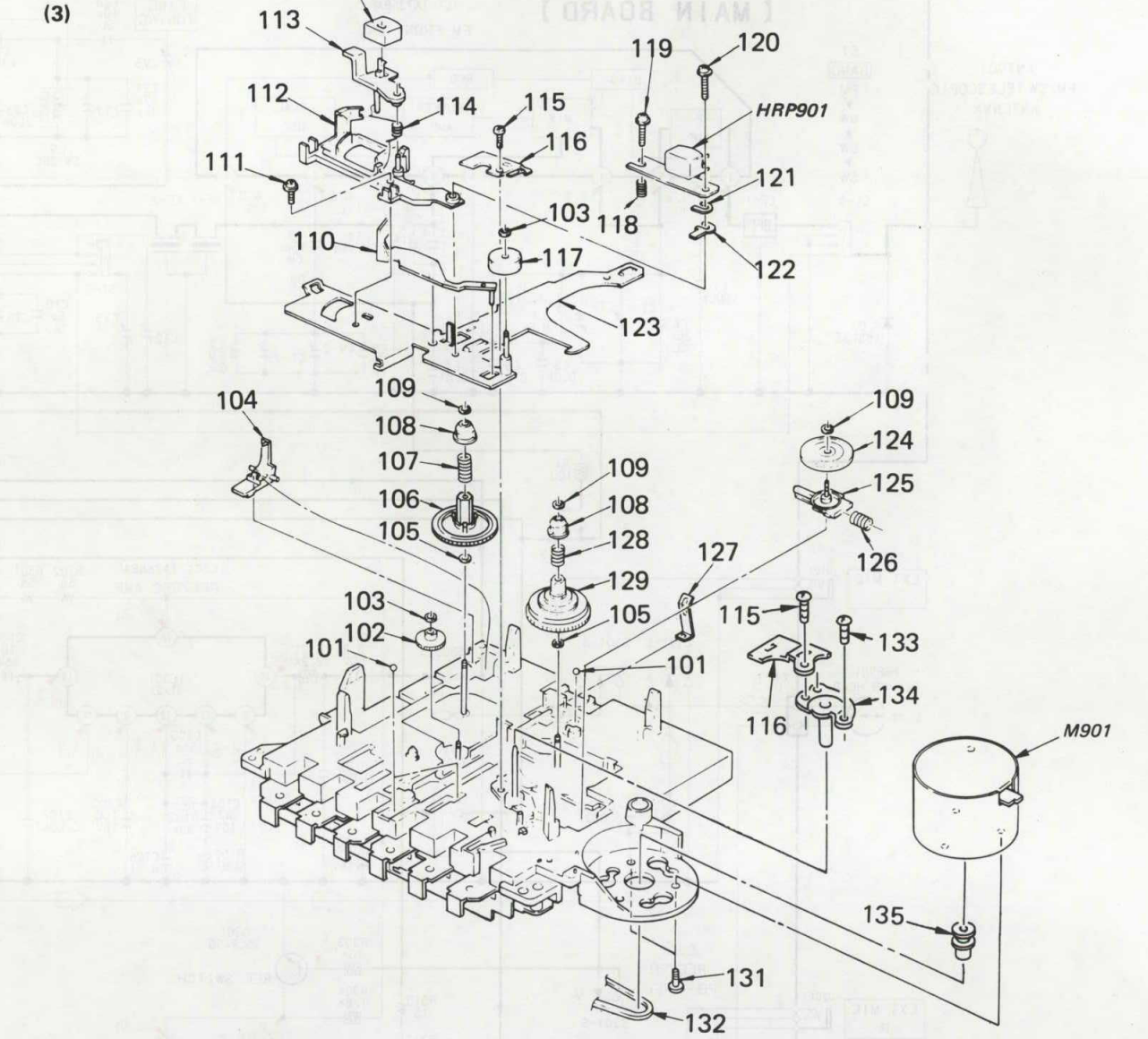
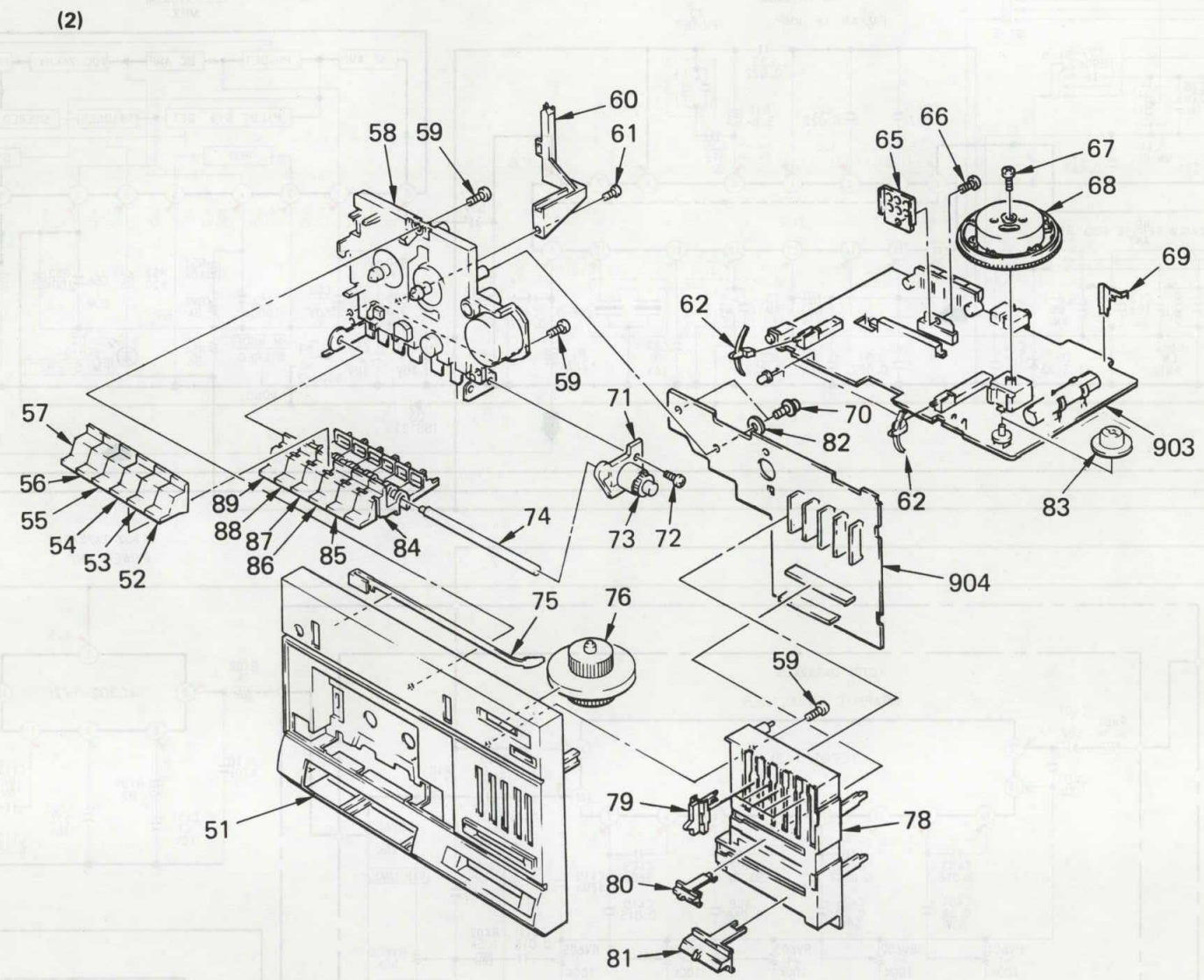
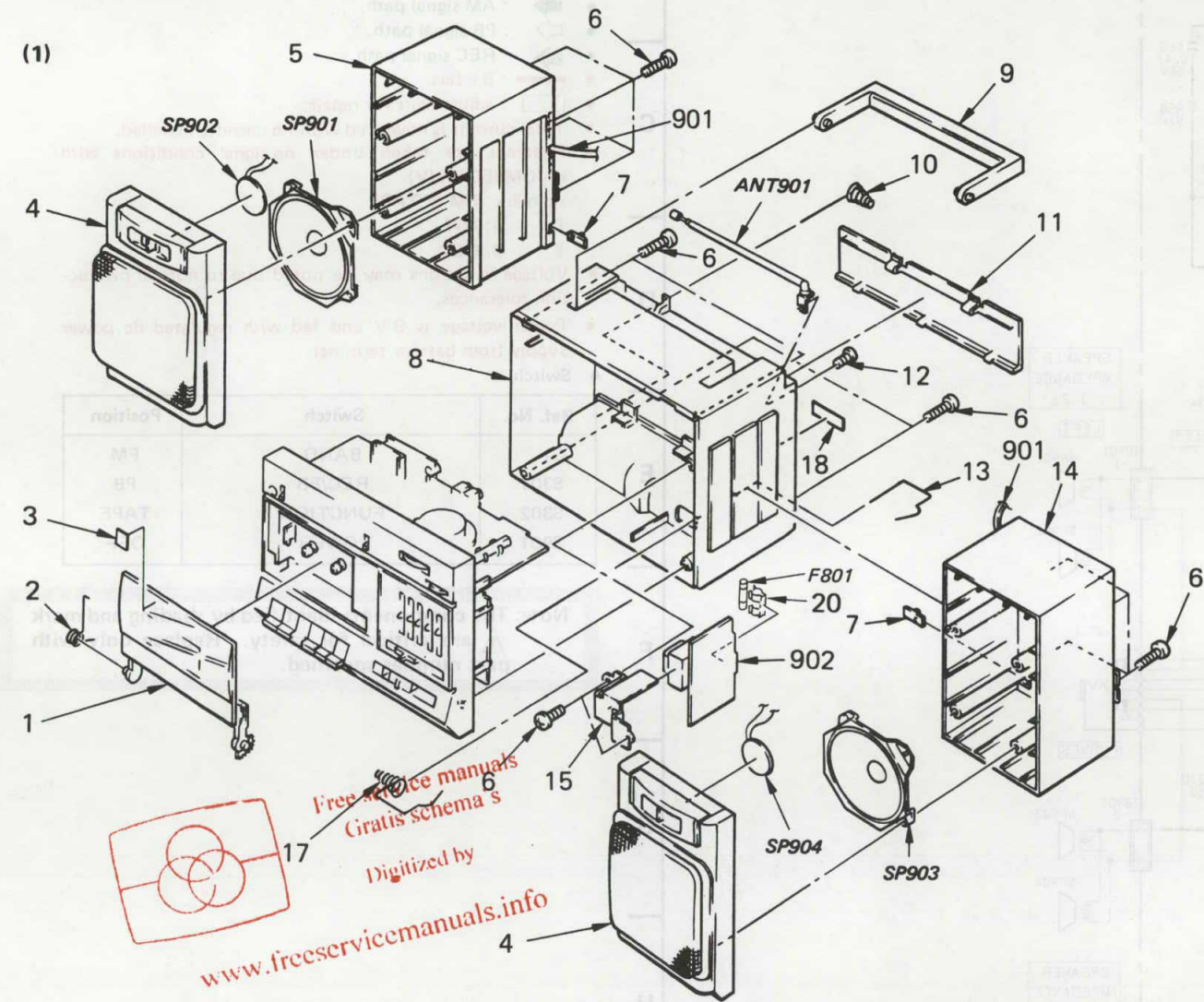
IEC DESIGNATION  
R20  
6PCS 9V

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SECTION 6  
EXPLODED VIEWS AND PARTS LIST

NOTE:  
• The mechanical parts with no reference number in the exploded views are not supplied.  
• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.  
• The construction parts of an assembled part are indicated with a collation number on the remark column.

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



No.	Part No.	Description	Remarks
1	X-3340-213-1	HOLDER ASSY, CASSETTE	
2	3-322-388-01	SPRING	
3	3-703-707-01	STICKER, SONY SYMBOL (21)	
4	X-3340-202-1	BOX (FRONT) ASSY, SP	
5	3-322-324-21	BOX (REAR) (LEFT), SPK	
6	7-685-649-11	SCREW +BVTP 3X14 TYPE2 SLIT	
7	3-319-598-01	CLAW, LOCK, SPK	
8	3-340-230-11	(AEP)...CABINET (REAR)	
	3-340-230-41	(UK)...CABINET (REAR)	
9	X-3340-204-1	HANDLE ASSY	
10	3-340-209-01	TERMINAL, BATTERY	
11	3-322-314-21	LID, BATTERY CASE	
12	7-682-550-04	SCREW +B 3X12	
13	3-340-203-01	TERMINAL, PLUS	

No.	Part No.	Description	Remarks
14	3-322-323-21	BOX (REAR) (RIGHT), SPK	
15	*3-340-206-01	BRACKET, TRANSFORMER	
16	7-685-649-11	SCREW +BVTP 3X14 TYPE2 SLIT	
17	3-340-204-01	TERMINAL, MINUS	
18	3-527-213-00	LABEL, SERIAL NUMBER	
20	1-533-183-11	HOLDER, FUSE	
901	1-557-463-11	CORD, SPEAKER	
902	*1-621-517-11	PC BOARD, POWER SUPPLY	
ANT901	1-501-306-11	ANTENNA, TELESCOPIC	
F801	1-532-285-00	FUSE, TIME-LAG (1.25A)	
SP901	1-503-746-11	SPEAKER	
SP902	1-529-030-21	BUZZER	
SP903	1-503-746-11	SPEAKER	
SP904	1-529-030-21	BUZZER	

No.	Part No.	Description	Remarks
51	X-3340-207-1	(IT)...CABINET (FRONT) ASSY	
	X-3340-208-1	(AEP,UK)...CABINET (FRONT) ASSY	
52	3-340-217-01	BUTTON, PAUSE	
53	3-340-216-01	BUTTON, FF	
54	3-340-215-01	BUTTON, REW	
55	3-340-214-01	BUTTON, PLAY	
56	3-340-213-01	BUTTON, REC	
57	3-340-212-01	BUTTON, STOP	
59	7-685-649-11	SCREW +BVTP 3X14 TYPE2 SLIT	
60	*3-340-223-01	ARM, REC	
61	7-621-259-55	SCREW +BVTT 2.6X8 (S)	
62	3-340-207-01	KNOB, FUNCTION	
63	3-322-317-01	LEVER, REC	
64	3-322-316-01	BRACKET, REC LEVER	
65	*3-340-258-01	HEAT SINK	
66	7-685-751-01	SCREW +PTT 3X6	
67	7-621-259-45	SCREW +P 2.6X6	
68	3-340-222-01	GEAR, VC	
69	*3-340-202-01	TERMINAL, ANTENNA	
70	7-685-902-21	SCREW +PTPHW 2.6X8 (TYPE2)	

No.	Part No.	Description	Remarks
71	3-340-224-01	BEARING, SE	
72	7-682-147-01	SCREW +P 3X6	
73	3-319-592-01	GEAR, SE	
74	3-319-513-01	SHAFT, MD BUTTON	
75	3-340-211-01	POINTER	
76	3-340-218-01	KNOB, TUNING	
78	*3-340-227-01	CHASSIS, MOLD	
79	3-340-221-01	KNOB, GEQ	
80	3-340-220-01	KNOB, BALANCE	
81	3-340-219-01	KNOB, VOL	
83	3-340-201-01	KNOB, FINE TUNE	
84	3-340-246-01	BASE, PAUSE BUTTON	
85	3-340-244-01	BASE, FF BUTTON	
86	3-340-245-01	BASE, REW BUTTON	
87	3-340-243-01	BASE, PLAY BUTTON	
88	3-340-242-01	BASE, REC BUTTON	
89	3-340-241-01	BASE, STOP BUTTON	
903	*A-2370-388-A	(UK)...PC BOARD ASSY, MAIN	
	*A-3270-387-A	(AEP)...PC BOARD ASSY, MAIN	
904	*A-3219-118-A	PC BOARD ASSY, VR	

No.	Part No.	Description	Remarks
101	7-671-112-11	BALL, STEEL (2.5)	
102	3-558-620-11	GEAR, REWIND	
103	3-307-948-01	WASHER, NYLON	
104	3-313-357-00	CLAW, REC PREVENTION	
105	3-701-437-21	WASHER	
106	3-313-305-00	TABLE, REEL, SUPPLY	
107	3-313-344-00	SPRING, COMPRESSION	
108	3-313-333-00	CLAW, REEL	
109	3-558-708-01	WASHER, STOPPER	
110	3-313-316-00	PULLEY	
111	7-621-255-35	SCREW (2MMX5), + PWH	
112	3-334-717-01	BRACKET (M), HEAD	
113	3-313-361-00	ARM, ERASE HEAD	
114	3-313-339-00	SPRING	
115	3-324-220-01	SCREW (82.6), TAPPING	
116	*3-332-309-01	SPRING (B)	
117	3-703-597-41	PINCH ROLLER, STANDARD	
118	3-313-340-00	SPRING, COMPRESSION	
119	3-701-465-00	SCREW, LOCK	
120	7-621-255-50	SCREW +B 2X8	
121	3-578-138-01	SEAM (t=0.1)	
	3-578-138-11	SEAM (t=0.2)	
	3-578-138-21	SEAM (t=0.3)	

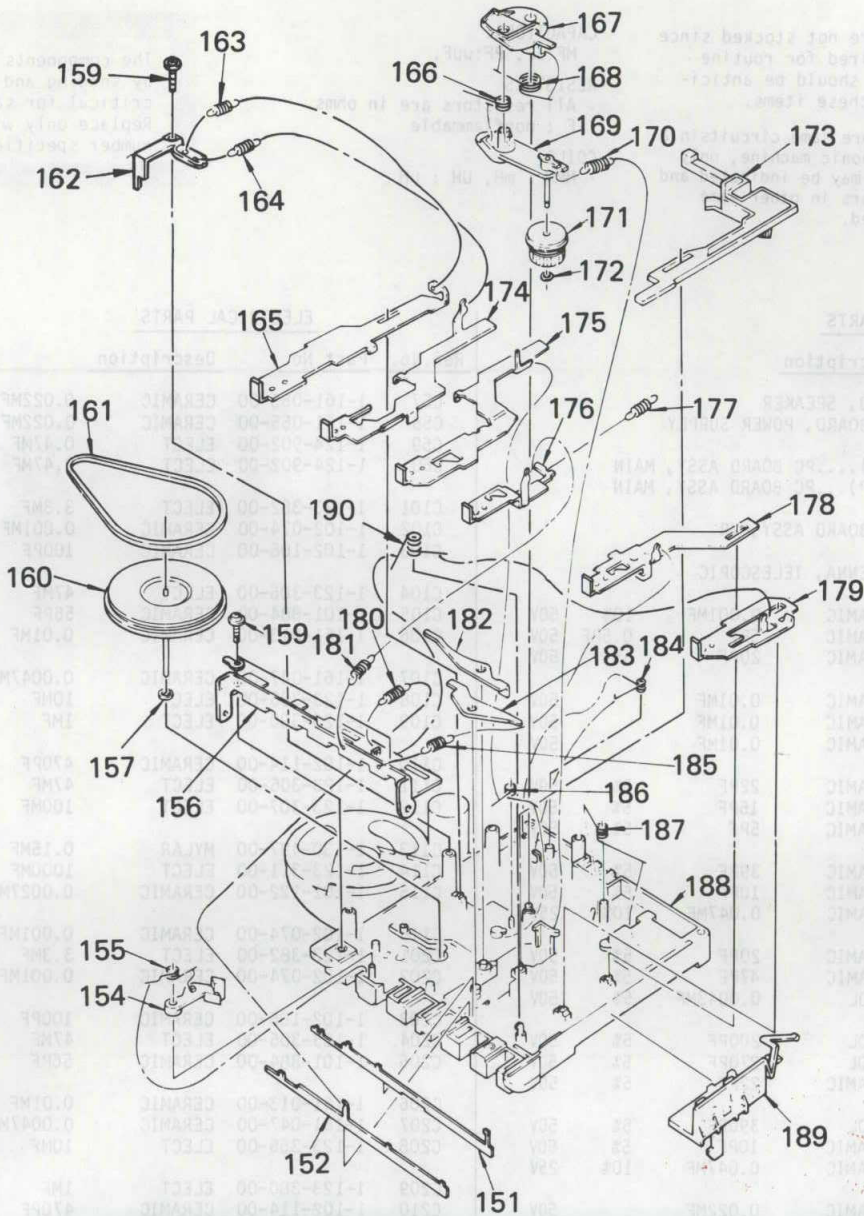
No.	Part No.	Description	Remarks
122	3-331-108-01	LUG (T), SEAM (t=0.1)	
	3-331-108-11	LUG (T), SEAM (t=0.2)	
	3-331-108-21	LUG (T), SEAM (t=0.3)	
	3-331-108-31	LUG (T), SEAM (t=0.4)	
	3-331-108-41	LUG (T), SEAM (t=0.5)	
123	X-3313-311-1	CHASSIS ASSY	
124	X-3313-307-0	PULLEY ASSY, FWD	
125	X-3313-301-0	BRACKET ASSY, T PULLEY	
126	3-573-464-00	SPRING, COMPRESSION	
127	3-313-902-00	SPRING	
128	3-313-345-00	SPRING, COMPRESSION	
129	A-3130-031-A	TABLE ASSY, REEL, TAKE-UP	
131	7-621-259-35	SCREW +P 2.6X5	
132	3-313-335-00	BELT, CAPSTAN	
133	3-318-203-71	SCREW (B1.7X5), TAPPING	
134	X-3319-945-1	BEARING ASSY, CAPSTAN	
135	X-3313-308-1	PULLEY, MOTOR	
HE901	8-658-096-02	HEAD, ERASE EBF5-36	
HRP901	1-543-283-11	HEAD, MAGNETIC (REC/PB)	
M901	1-541-231-00	MOTOR	

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SECTION 7  
ELECTRICAL PARTS LIST

(4)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	*3-331-145-01	PLATE (C), LOCK		172	3-558-708-01	WASHER, STOPPER	
152	*3-313-351-11	PLATE (A), LOCK		173	3-313-356-00	BRAKE	
154	3-313-322-02	LEVER (A), S.OFF		174	*3-313-353-21	LEVER, FF BUTTON	
155	3-313-323-00	SPRING		175	*3-313-354-21	LEVER, REW BUTTON	
156	*3-313-382-01	RETAINER, LEVER		176	*3-313-326-21	LEVER, FWD BUTTON	
157	3-701-438-11	WASHER, 2.5		177	3-313-342-00	SPRING, TENSION	
159	7-687-233-11	SCREW (+ PTPWH) (2.6X6)		178	*3-313-350-21	LEVER, REC BUTTON	
160	X-3592-309-1	FLYWHEEL (E) ASSY		179	*3-313-325-21	LEVER, STOP BUTTON	
161	3-313-335-00	BELT, CAPSTAN		180	3-313-343-00	SPRING, TENSION	
162	*3-332-310-01	HOOK, SPRING		181	3-313-369-00	SPRING, TENSION	
163	3-313-349-00	SPRING, TENSION		182	*3-313-320-00	LEVER, RCP	
164	3-313-348-00	SPRING, TENSION		183	*3-313-321-00	LEVER, PREVENTION, RFR	
165	*3-313-381-21	LEVER (B), PAUSE BUTTON		184	3-313-378-01	SPRING (A)	
166	3-313-313-00	SPRING		185	3-322-529-01	SPRING, TENSION	
167	3-313-314-00	LEVER (SI), FR		186	3-313-338-00	SPRING	
168	3-313-315-00	SPRING		187	3-313-327-00	SPRING	
169	X-3313-304-0	ARM ASSY, REW		188	A-3102-092-A	CHASSIS ASSY, MECHANICAL	
170	3-313-365-00	SPRING, TENSION		189	3-313-383-01	CLAW (B), EJECT	
171	X-3313-312-1	IDLER ASSY, FR		190	3-313-331-00	SPRING	

## SECTION 7 ELECTRICAL PARTS LIST

**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

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
901	1-557-463-11	CORD, SPEAKER				
902	*1-621-517-11	PC BOARD, POWER SUPPLY				
903	*A-2370-388-A	(UK)...PC BOARD ASSY, MAIN				
	*A-3270-387-A	(AEP)...PC BOARD ASSY, MAIN				
904	*A-3219-118-A	PC BOARD ASSY, VR				
ANT901	1-501-306-11	ANTENNA, TELESCOPIC				
C2	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C3	1-102-942-00	CERAMIC	5PF	0.5PF	50V	
C4	1-102-958-00	CERAMIC	20PF	5%	50V	
C5	1-101-004-00	CERAMIC	0.01MF		50V	
C6	1-101-004-00	CERAMIC	0.01MF		50V	
C7	1-101-004-00	CERAMIC	0.01MF		50V	
C8	1-102-959-00	CERAMIC	22PF	5%	50V	
C9	1-102-951-00	CERAMIC	15PF	5%	50V	
C10	1-102-942-00	CERAMIC	5PF	5%	50V	
C11	1-102-965-00	CERAMIC	39PF	5%	50V	
C12	1-102-947-00	CERAMIC	10PF	5%	50V	
C13	1-161-021-11	CERAMIC	0.047MF	10%	25V	
C14	1-102-958-00	CERAMIC	20PF	5%	50V	
C21	1-101-880-00	CERAMIC	47PF	5%	50V	
C22	1-103-740-00	STROL	0.0043MF	5%	50V	
C23	1-104-060-00	STROL	200PF	5%	50V	
C25	1-103-711-00	STROL	270PF	5%	50V	
C26	1-102-959-00	CERAMIC	22PF	5%	50V	
C27	1-104-067-00	STROL	390PF	5%	50V	
C28	1-102-947-00	CERAMIC	10PF	5%	50V	
C29	1-161-021-11	CERAMIC	0.047MF	10%	25V	
C31	1-101-005-00	CERAMIC	0.022MF		50V	
C32	1-101-005-00	CERAMIC	0.022MF		50V	
C33	1-101-005-00	CERAMIC	0.022MF		50V	
C34	1-124-446-11	ELECT	47MF	20%	10V	
C35	1-102-965-00	CERAMIC	39PF	5%	50V	
C36	1-123-622-00	ELECT	22MF	20%	16V	
C37	1-101-005-00	CERAMIC	0.022MF		50V	
C38	1-101-005-00	CERAMIC	0.022MF		50V	
C39	1-123-617-00	ELECT	10MF	20%	16V	
C41	1-161-056-00	CERAMIC	0.027MF	10%	25V	
C42	1-102-106-00	CERAMIC	100PF	10%	50V	
C50	1-124-902-00	ELECT	0.47MF	20%	50V	
C51	1-161-056-00	CERAMIC	0.027MF	10%	25V	
C52	1-124-905-11	ELECT	3.3MF	20%	50V	
C53	1-124-791-11	ELECT	1MF	20%	50V	
C54	1-102-074-00	CERAMIC	0.001MF	5%	50V	
C55	1-124-446-11	ELECT	47MF	20%	10V	
C56	1-124-791-11	ELECT	1MF	20%	50V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C57	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C58	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C59	1-124-902-00	ELECT	0.47MF	20%	50V	
C60	1-124-902-00	ELECT	0.47MF	20%	50V	
C101	1-123-382-00	ELECT	3.3MF	20%	50V	
C102	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C103	1-102-106-00	CERAMIC	100PF	10%	50V	
C104	1-123-306-00	ELECT	47MF	20%	10V	
C105	1-101-884-00	CERAMIC	56PF	10%	50V	
C106	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C107	1-161-047-00	CERAMIC	0.0047MF	10%	25V	
C108	1-123-356-00	ELECT	10MF	20%	16V	
C109	1-123-380-00	ELECT	1MF	20%	50V	
C110	1-102-114-00	CERAMIC	470PF	10%	50V	
C111	1-123-306-00	ELECT	47MF	20%	10V	
C112	1-123-307-00	ELECT	100MF	20%	10V	
C113	1-130-497-00	MYLAR	0.15MF	5%	50V	
C114	1-123-311-00	ELECT	1000MF	20%	10V	
C115	1-102-122-00	CERAMIC	0.0027MF	10%	50V	
C116	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C201	1-123-382-00	ELECT	3.3MF	20%	50V	
C202	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C203	1-102-106-00	CERAMIC	100PF	10%	50V	
C204	1-123-306-00	ELECT	47MF	20%	10V	
C205	1-101-884-00	CERAMIC	56PF	10%	50V	
C206	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C207	1-161-047-00	CERAMIC	0.0047MF	10%	25V	
C208	1-123-356-00	ELECT	10MF	20%	16V	
C209	1-123-380-00	ELECT	1MF	20%	50V	
C210	1-102-114-00	CERAMIC	470PF	10%	50V	
C211	1-123-306-00	ELECT	47MF	20%	10V	
C212	1-123-307-00	ELECT	100MF	20%	10V	
C213	1-130-497-00	MYLAR	0.15MF	5%	50V	
C214	1-123-311-00	ELECT	1000MF	20%	10V	
C215	1-102-122-00	CERAMIC	0.0027MF	10%	50V	
C216	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C301	1-123-333-00	ELECT	100MF	20%	16V	
C302	1-123-307-00	ELECT	100MF	20%	10V	
C303	1-123-321-00	ELECT	220MF	20%	16V	
C304	1-123-321-00	ELECT	220MF	20%	16V	
C305	1-102-117-00	CERAMIC	820PF	10%	50V	
C306	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C307	1-102-119-00	CERAMIC	0.0015MF	10%	50V	
C308	1-123-307-00	ELECT	100MF	20%	10V	
C310	1-124-124-00	ELECT	220MF	20%	10V	
C311	1-101-004-00	CERAMIC	0.01MF		50V	
C312	1-101-005-00	CERAMIC	0.022MF		50V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C401	1-123-380-00	ELECT	1MF	20%	50V
C402	1-102-106-00	CERAMIC	100PF	10%	50V
C403	1-161-054-00	CERAMIC	0.018MF	10%	25V
C404	1-124-254-00	ELECT	0.68MF	20%	50V
C405	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C406	1-124-464-11	ELECT	0.22MF	20%	50V
C407	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C408	1-161-023-00	CERAMIC	0.068MF	10%	25V
C409	1-102-115-00	CERAMIC	560PF	10%	50V
C410	1-161-053-00	CERAMIC	0.015MF	10%	25V
C411	1-161-053-00	CERAMIC	0.015MF	10%	25V
C413	1-123-369-00	ELECT	4.7MF	20%	25V
C414	1-123-369-00	ELECT	4.7MF	20%	25V
C415	1-102-114-00	CERAMIC	470PF	10%	50V
C501	1-123-380-00	ELECT	1MF	20%	50V
C502	1-102-106-00	CERAMIC	100PF	10%	50V
C503	1-161-054-00	CERAMIC	0.018MF	10%	25V
C504	1-124-254-00	ELECT	0.68MF	20%	50V
C505	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C506	1-124-464-11	ELECT	0.22MF	20%	50V
C507	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C508	1-161-023-00	CERAMIC	0.068MF	10%	25V
C509	1-102-115-00	CERAMIC	560PF	10%	50V
C510	1-161-053-00	CERAMIC	0.015MF	10%	25V
C511	1-161-053-00	CERAMIC	0.015MF	10%	25V
C513	1-123-369-00	ELECT	4.7MF	20%	25V
C514	1-123-369-00	ELECT	4.7MF	20%	25V
C515	1-102-114-00	CERAMIC	470PF	10%	50V
C601	1-123-307-00	ELECT	100MF	20%	10V
C801	1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
CF1	1-567-802-71	FILTER, CERAMIC			
CF2	1-567-802-71	FILTER, CERAMIC			
CF3	1-567-670-11	FILTER, CERAMIC			
CNJ2	1-562-680-11	CONNECTOR, SMALL MICRO 2P			
△CNJ801	1-526-838-11	INLET, AC 2P (AC IN)			
CNP1	*1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P			
CNP2	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P			
CP1	1-235-911-21	FILTER, BAND PASS			
CT5	1-141-290-11	CAP, VAR FILM TRIMMER			
CT6	1-141-260-00	TRIMAR, CERAMIC			
CT7	1-141-290-11	CAP, VAR FILM TRIMMER			
CT8	1-141-245-00	TRIMMER, CERAMIC			
CV	1-151-498-11	CAP, VAR, POLYETHYLENE (TUNING) (CV1-CV4, CT1-CT4)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
CV5	1-141-324-11	CAP, VAR, TRIMMER (FINE TUNING)			
D1	8-719-901-33	DIODE 1SS133			
D3	8-719-901-33	DIODE 1SS133			
D4	9-987-354-01	DIODE SLR-34VR5F (FM STEREO)			
D5	8-719-901-33	DIODE 1SS133			
D6	8-719-901-33	DIODE 1SS133			
D301	9-987-354-01	DIODE SLR-34VR5F (OPR/BATT)			
D302	8-719-100-38	DIODE RD6.2EB2			
D801	8-719-200-02	DIODE 10E2			
D802	8-719-200-02	DIODE 10E2			
D803	8-719-200-02	DIODE 10E2			
D804	8-719-200-02	DIODE 10E2			
F801	△ 1-532-285-00	FUSE, TIME-LAG (1.25A)			
IC1	8-759-204-03	IC TA7358AP			
IC2	8-759-801-24	IC LA1260S			
IC3	8-759-203-87	IC TA7343AP			
IC301	8-759-205-91	IC TA7668BP			
IC302	8-759-205-82	IC TA7282AP			
IC701	1-807-737-11	IC BA-3824LS			
J101	1-507-777-00	JACK, SMALL TYPE (EXT MIC-L)			
J201	1-507-777-00	JACK, SMALL TYPE (EXT MIC-R)			
J301	1-507-948-11	JACK (PHONES)			
L1	1-422-317-11	COIL, VHF			
L2	1-459-694-11	COIL, VHF (WITH CORE)			
L5	1-402-262-21	COIL, SW ANT			
L6	1-402-264-21	ANTENNA, FERRITE-ROD (MW/LW)			
L8	*1-409-293-00	COIL, AIR CORE			
L9	1-406-152-11	COIL, OSCILLATION (SW)			
L10	1-406-151-11	COIL, OSCILLATION (LW)			
L11	1-406-059-00	COIL, OSCILLATION (MW)			
Q301	8-729-600-27	TRANSISTOR 2SC634SP			
Q302	8-729-218-53	TRANSISTOR 2SC1815GR			
Q303	8-729-113-32	TRANSISTOR 2SA733			
Q304	8-729-100-12	TRANSISTOR 2SC2001L			
R2	1-249-405-11	CARBON	100	5%	1/6W
R3	1-215-380-00	CARBON	20	5%	1/6W
R4	1-249-405-11	CARBON	100	5%	1/6W
R11	1-247-849-00	CARBON	5.6K	5%	1/6W
R12	1-249-421-11	CARBON	2.2K	5%	1/6W
R13	1-249-433-11	CARBON	22K	5%	1/6W
R50	1-249-417-11	CARBON	1K	5%	1/6W
R51	1-249-429-11	CARBON	10K	5%	1/6W
R52	1-249-416-11	CARBON	820	5%	1/6W
R53	1-215-473-00	CARBON	150K	5%	1/6W
R54	1-249-402-11	CARBON	56	5%	1/6W
R55	1-249-423-11	CARBON	3.3K	5%	1/6W



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


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## ELECTRICAL PARTS



Ref.No.	Part No.	Description			
R56	1-249-423-11	CARBON	3.3K	5%	1/6W
R57	1-215-468-00	CARBON	91K	5%	1/6W
R58	1-215-468-00	CARBON	91K	5%	1/6W
R59	1-215-469-00	CARBON	100K	5%	1/6W
R60	1-215-469-00	CARBON	100K	5%	1/6W
R101	1-249-421-11	CARBON	2.2K	5%	1/6W
R102	1-249-408-11	CARBON	180	5%	1/6W
R103	1-249-435-11	CARBON	33K	5%	1/6W
R104	1-249-421-11	CARBON	2.2K	5%	1/6W
R105	1-249-406-11	CARBON	120	5%	1/6W
R107	1-215-448-00	CARBON	13K	5%	1/6W
R108	1-249-417-11	CARBON	1K	5%	1/6W
R109	1-249-404-00	CARBON	82	5%	1/6W
R110	1-249-403-11	CARBON	68	5%	1/6W
R111	1-249-411-11	CARBON	330	5%	1/6W
R201	1-249-421-11	CARBON	2.2K	5%	1/6W
R202	1-249-408-11	CARBON	180	5%	1/6W
R203	1-249-435-11	CARBON	33K	5%	1/6W
R204	1-249-421-11	CARBON	2.2K	5%	1/6W
R205	1-249-406-11	CARBON	120	5%	1/6W
R207	1-215-448-00	CARBON	13K	5%	1/6W
R208	1-249-417-11	CARBON	1K	5%	1/6W
R209	1-249-404-00	CARBON	82	5%	1/6W
R210	1-249-403-11	CARBON	68	5%	1/6W
R211	1-249-411-11	CARBON	330	5%	1/6W
R301	1-249-402-11	CARBON	56	5%	1/6W
R302	1-249-402-11	CARBON	56	5%	1/6W
R303	1-249-429-11	CARBON	10K	5%	1/6W
R304	1-249-420-11	CARBON	1.8K	5%	1/6W
R305	1-249-415-11	CARBON	680	5%	1/6W
R306	1-249-410-11	CARBON	270	5%	1/6W
R307	1-249-437-11	CARBON	47K	5%	1/6W
R308	1-249-405-11	CARBON	100	5%	1/6W
R309	1-249-429-11	CARBON	10K	5%	1/6W
R310	1-249-413-11	CARBON	470	5%	1/6W
R311	1-249-405-11	CARBON	100	5%	1/6W
R312	1-249-395-11	CARBON	15	5%	1/6W
R313	1-249-395-11	CARBON	15	5%	1/6W
R401	1-249-425-11	CARBON	4.7K	5%	1/6W
R402	1-249-419-11	CARBON	1.5K	5%	1/6W
R403	1-215-442-00	CARBON	7.5K	5%	1/6W
R501	1-249-425-11	CARBON	4.7K	5%	1/6W
R502	1-249-419-11	CARBON	1.5K	5%	1/6W
R503	1-215-442-00	CARBON	7.5K	5%	1/6W
R601	1-249-402-11	CARBON	56	5%	1/6W

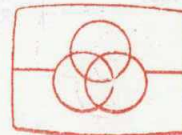
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

## ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV1	1-230-482-11	RES, ADJ, CARBON 5K (VCO)
RV601	1-237-275-11	RES, VAR, SLIDE 100K/100K (100Hz)
RV602	1-237-275-11	RES, VAR, SLIDE 100K/100K (400Hz)
RV603	1-237-275-11	RES, VAR, SLIDE 100K/100K (1kHz)
RV604	1-237-275-11	RES, VAR, SLIDE 100K/100K (4kHz)
RV605	1-237-275-11	RES, VAR, SLIDE 100K/100K (10kHz)
RV606	1-237-568-11	RES, VAR, SLIDE 50K (BALANCE)
RV607	1-237-277-11	RES, VAR, SLIDE 20K/20K (VOL)
S1	1-554-916-11	SWITCH, LEVER SLIDE (BAND)
S301	1-570-934-11	SWITCH, LEVER SLIDE
S302	1-570-932-11	SWITCH, LEVER SLIDE (FUNCTION)
S303	1-554-123-00	SWITCH, SLIDE (ISS/FM MODE)
S901	1-554-495-00	SWITCH, LEAF (POWER)
SP901	1-503-746-11	SPEAKER
SP902	1-529-030-21	BUZZER
SP903	1-503-746-11	SPEAKER
SP904	1-529-030-21	BUZZER
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)
T2	1-404-249-00	COIL, FM DETECTOR
T3	1-404-355-00	TRANSFORMER, IF
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR
T801	 1-448-763-11	(AEP)...TRANSFORMER, POWER
T801	 1-448-764-11	(UK)....TRANSFORMER, POWER
TB901	1-536-705-00	TERMINAL BOARD (SP)

## ACCESSORY &amp; PACKING MATERIAL

Part No.	Description
 1-555-360-31	(AEP)...CORD, POWER
 1-558-032-21	(UK)....CORD, POWER
*3-340-235-01	INDIVIDUAL CARTON
*3-340-237-01	CUSHION
*3-340-238-01	SHEET (A), PROTECTION
*3-340-239-01	SHEET (B), PROTECTION
3-701-626-00	BAG, POLYETHYLENE
3-703-707-01	STICKER, SONY SYMBOL (21)
*3-764-430-01	(AEP)...INSTRUCTION, DBP CAUTION
3-769-070-11	MANUAL INSTRUCTON
3-769-070-41	MANUAL INSTRUCTON



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9-952-767-11

Sony Corporation  
Audio Group

English  
87E0557-1  
Printed in Japan  
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# CFS-1000L

## SONY SERVICE MANUAL

AEP Model  
UK Model


### SUPPLEMENT-1

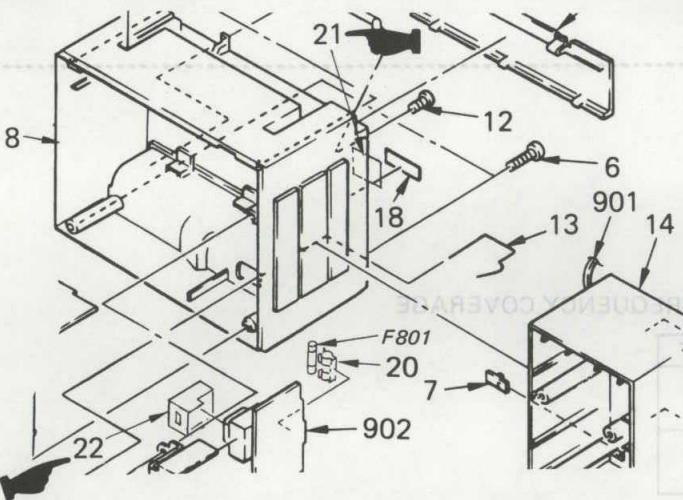
File this supplement with the service manual.

Subject: Italian (IT) model addition

- Refer to CFS-1000L Service Manual Previously issued for the information of this set.
- Following parts differ from those in AEP mode.


• Page 16

 : Addition part





No.	Part No.	Description
8	3-340-230-61	(IT) .....CABINET (REAR)
21	3-340-255-01	(IT) .....LABEL, MODEL NUMBER (IT)
22	3-340-261-01	(AEP, UK, IT)...CASE, SHIELD

• Page 17 903 A-3270-387-A (AEP, IT) .....PC BOARD ASSY, MAIN

• Page 22 T801  1-448-763-11 (AEP, IT).....TRANSFORMER, POWER

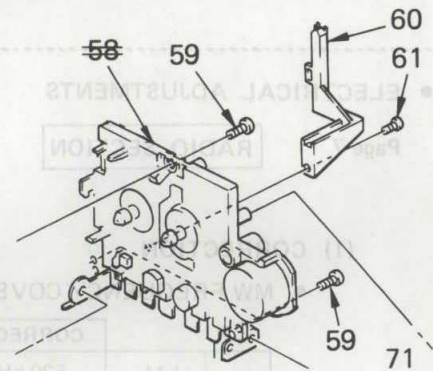
#### ACCESSORY & PACKING MATERIAL

-  1-555-360-31 (AEP, IT).....CORD, POWER
- 3-769-070-41 (AEP, IT).....MANUAL INSTRUCTION

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

• Page 17

EXPLODED VIEWS No. 58 delete.

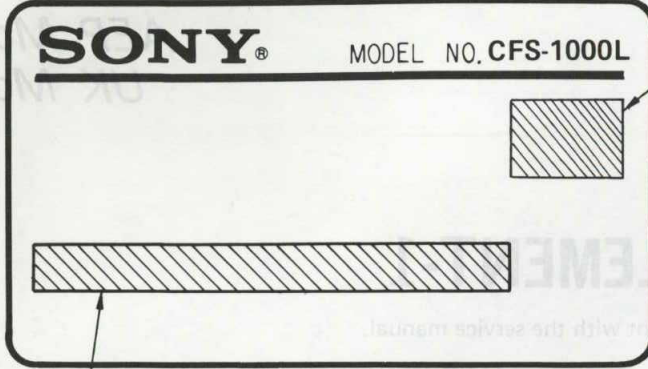


Model	Frequency	Band
LW	140 KHz	CT8
LW	180 KHz	CTA
MW	518 KHz	L11
MW	1830 KHz	CTA

Sony Corporation  
Audio Group

8-952-767-81

**MODEL IDENTIFICATION**



**Italian model:**

- FM 87.5 – 108 MHz
- MW 526.5 – 1606.5 kHz
- LW 148.5 – 283.5 kHz
- SW 5.95 – 18 MHz

**AEP, UK model:**

- FM 87.6 – 107 MHz
- MW 530 – 1605 kHz
- LW 150 – 285 kHz
- SW 5.95 – 18 MHz

- Italian model: AC: 220 V ~ 50 Hz 14 W
- AEP model: AC: 220 V ~ 50 Hz 14 W
- UK model: AC: 240 V ~ 50 Hz 18 W

AEP, UK model: Carved on Rear Cabinet.  
 Italian model: Sticked on Rear Cabinet.

**ELECTRICAL ADJUSTMENTS**

Page 7

**RADIO SECTION**

**(1) CORRECTION**

- MW FREQUENCY COVERAGE and SW FREQUENCY COVERAGE

		CORRECT	INCORRECT
MW	L11	520 kHz	525 kHz
	CT4	1680 kHz	1650 kHz
SW	L9	5.75 MHz	5.95 MHz
	CT7	18.4 MHz	18.05 MHz

**(2) Italian model addition**

- LW FREQUENCY COVERAGE and MW FREQUENCY COVERAGE

LW	CT8	293 kHz
	L10	140 kHz
MW	L11	516 kHz
	CT4	1630 kHz


# CFS-1000L


## SONY SERVICE MANUAL

AEP Model  
UK Model

### CORRECTION-1

Please correct your service manual.

 : Corrected portions

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
21	Q302	8-729-218-53	TRANSISTOR 2SC1815GR	8-729-281-53 	TRANSISTOR 2SC1815GR