

# ICF-C5W

## SERVICE MANUAL

US Model  
Canadian Model  
AEP Model  
E Model  
AUS Model

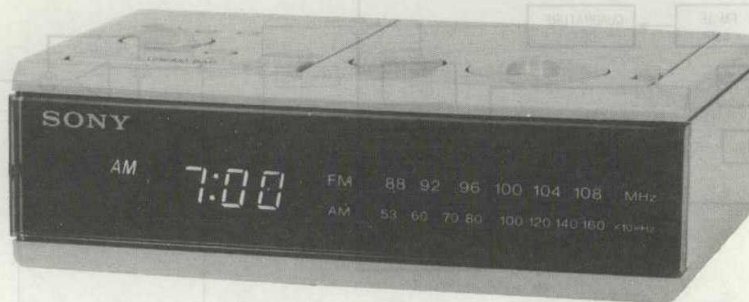
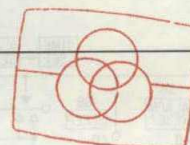


Photo : IVORY type

### SPECIFICATIONS

Frequency range	FM 87.6–108 MHz AM 530–1,605 kHz
Antennas	FM: AC power cord antenna AM: Built-in ferrite bar antenna
Speaker	Approx. 6.6 cm (2½ inches) dia.
Power output	250 mW (at 10 % harmonic distortion)
Power requirements	120 V ac, 60 Hz (US, Canadian Model) 220 V ac, 50 Hz (AEP Model) 110–120 V/220–240 V ac adjustable, 50/60 Hz (E Model) 240 V ac, 50 Hz (AUS Model)
Power consumption	5 W ac (2.5 W ac when only the clock is in operation)
Dimensions	Approx. 192 x 71 x 132 mm (w/h/d) (7 5/8 x 2 7/8 x 5 1/4 inches) including projecting parts and controls
Weight	Approx. 800 g (1 lb 13 oz)




Free service manuals  
Gratis schema's


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#### 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.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

# FM/AM DIGITAL CLOCK RADIO

# SONY®

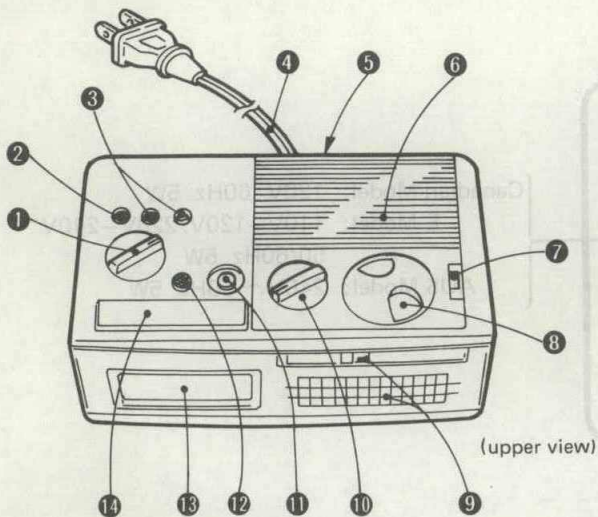


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### LOCATION AND FUNCTION OF CONTROLS

### FEATURES

- High quality FM/AM radio combined with an electronic digital alarm clock and sleep timer.
- Easy-to-read blue fluorescent display of time and AM/PM indication.
- All controls grouped on the upper panel.
- Bright selector for changing the illumination of the display.
- Choice of awakening to radio or buzzer alarm.
- 24-hour alarm preset system automatically turns alarm on at same time each day.
- Dream bar, feather light to operate, and having three functions; snooze alarm, sleep timer off, and instant alarm time readout.



#### 1 Function selector

Select a position as required  
 TIME SET: for setting the current time.  
 ALARM SET: for setting the alarm time.  
 OFF: for turning off the radio manually or automatically.  
 ON: for turning on the radio manually.  
 RADIO: for radio alarm.  
 BUZZER: for buzzer alarm, or for radio and buzzer alarm.

2 **PUSH button:** This button must be depressed in order to put the function selector in the TIME SET position. To set the time, hold this button down while turning the function selector to TIME SET.

3 **Time set buttons H (hour) M (minute):** Each time the H or M button is pressed, the hour or minute digit advances by one. While the H or M button is kept pressed, the clock stops operating.

#### 4 AC power cord

5 **BRIGHT selector (rear):** Set this selector to H to brighten the figures on the display and to L to dim.

#### 6 Speaker

7 **BAND selector:** Choose the desired band: FM or AM.

8 **TUNING knob:** Turn to select the frequency of the desired station.

#### 9 Dial scale and dial pointer (front)

10 **VOLUME control:** Turn clockwise for more volume.

11 **ALARM RESET button:** Press to turn off the alarm sound manually.

12 **SLEEP timer button:** Press the button to set the sleep timer.

13 **Time display (front):** The current AM or PM time is displayed. When the function selector is set to ALARM SET or when the DREAM BAR is pressed, the display on the indicator shows alarm time with an "Alarm" marking. When the SLEEP button is pressed, the display shown is the length of time in minutes the radio will keep playing.

14 **DREAM BAR:** Lightly press for an instant readout of the alarm time, for operating the snooze alarm function, or for turning off the radio before the preset time of the sleep timer.

SECTION 1  
OUTLINE

MODEL IDENTIFICATIONS

— Specification Label —

- Canadian, E, AUS Model

**SONY** MODEL NO. ICF-C5W

FM/AM 2 BANDS

AC:

Canadian Model: 120V 60Hz 5W  
 E Model: 110V-120V/220V-240V  
 50/60Hz 5W  
 AUS Model: 240V ~ 50Hz 5W

- AEP Model

**SONY** MODEL NO. ICF-C5W

FM/AM 2 BANDS


AC: 220V ~ 50Hz 5W

- US Model

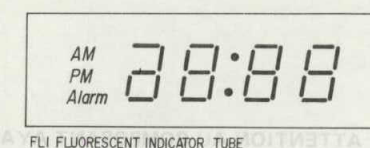
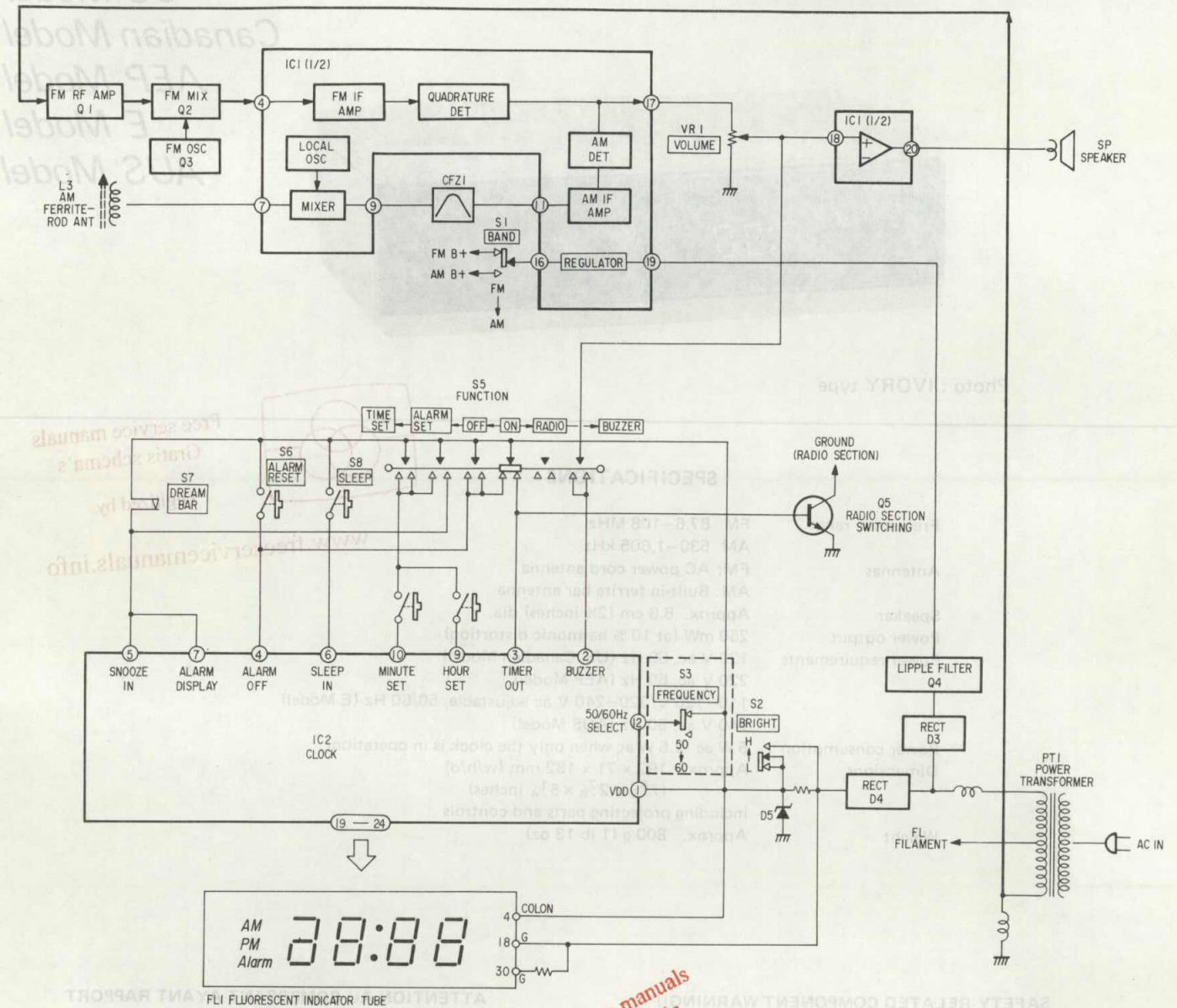
**SONY** MODEL NO. ICF-C5W

FM/AM 2 BANDS

AC: 120V 60Hz 5W



1-1. BLOCK DIAGRAM



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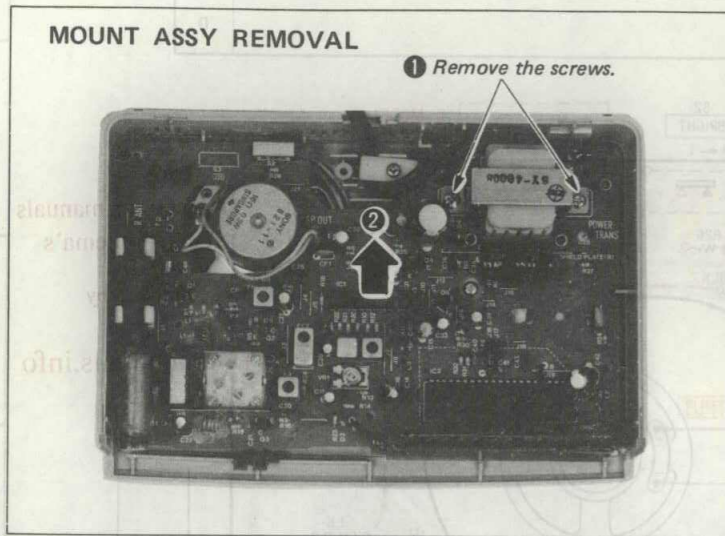
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SECTION 2  
DISASSEMBLY

SECTION 3  
ELECTRICAL ADJUSTMENTS

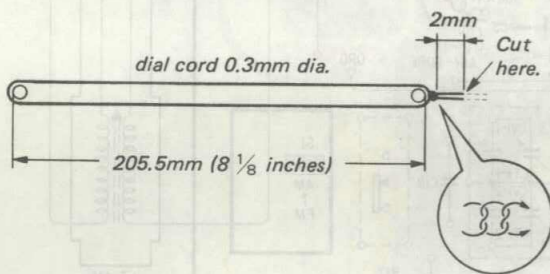
2-1. REMOVAL

Follow the disassembly procedure in the numerical order given.

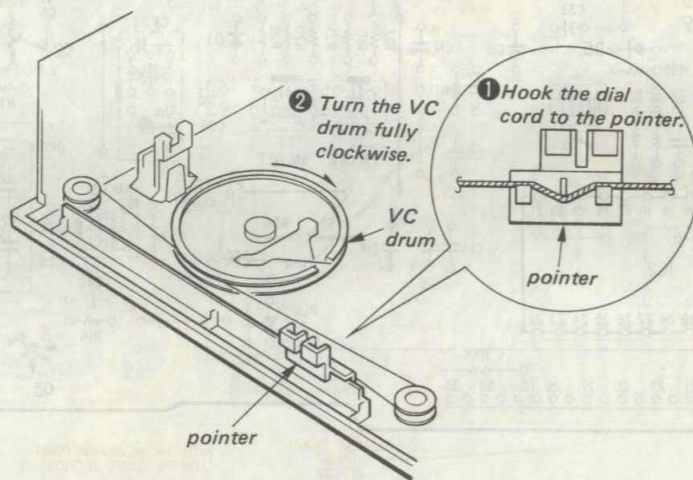


2-2. DIAL CORD STRINGING

1) Dial Cord Preparation

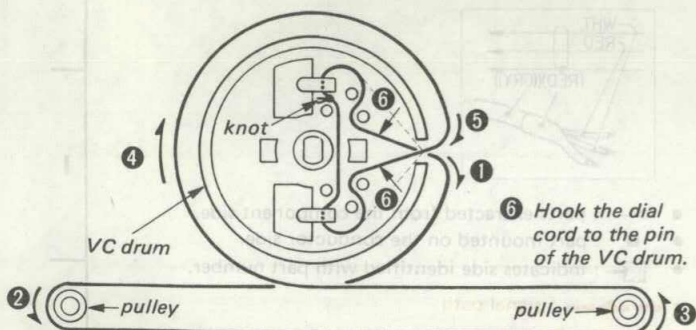


3) Pointer Setting

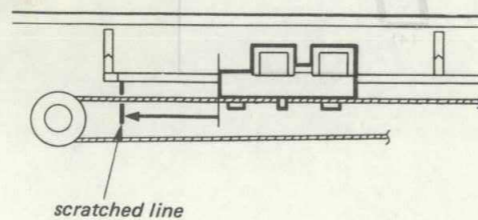


2) Dial Cord Stringing

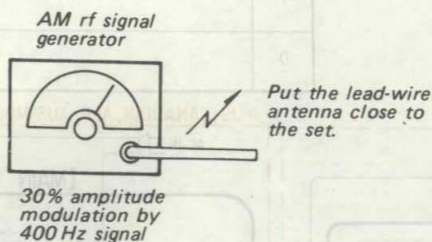
- Set the knot to the position as illustrated below.
- String the dial cord in the numerical order given.



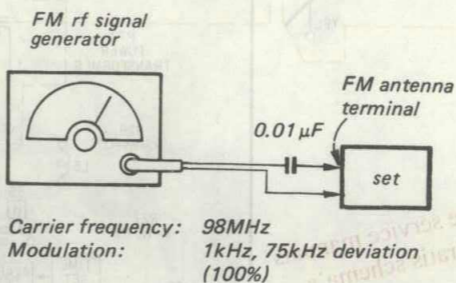
3) Set the pointer to the scratched line.



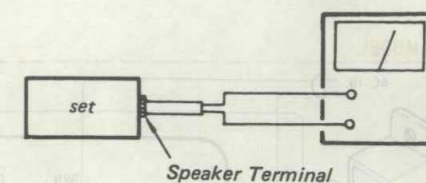
AM



FM



VTVM  
(range: 0.5-5V ac)



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

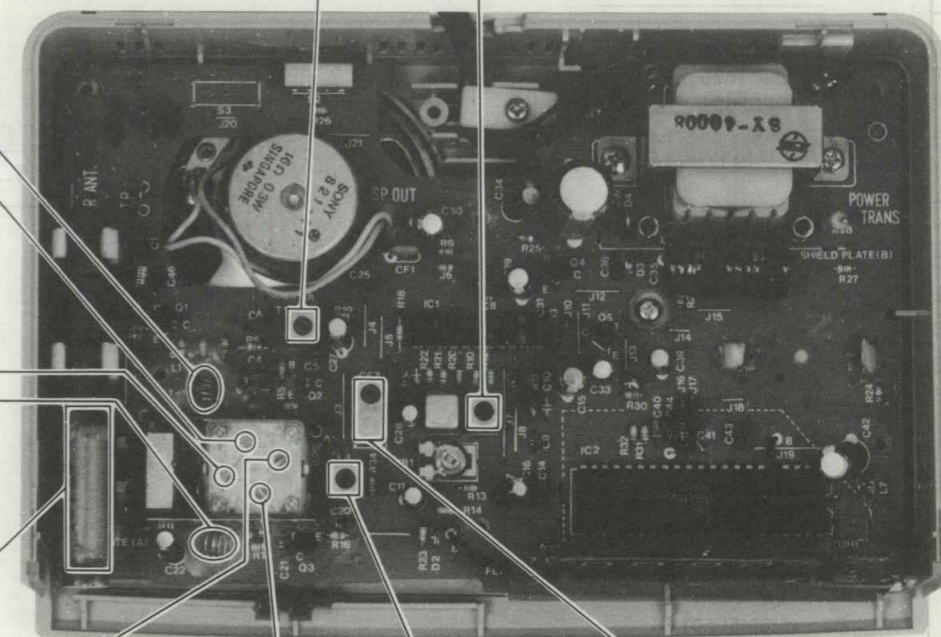
FM IF ALIGNMENT 1  
(10.7MHz with modulation)

Adjust for a maximum reading on VTVM.

T1	T2
----	----

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5MHz	L1-1 L1-2
109.5MHz	CT1-1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
109.5MHz	CT1-2
86.5MHz	L2



L3	CT1-3
620kHz	1400kHz
Adjust for a maximum reading on VTVM.	
AM TRACKING ADJUSTMENT	

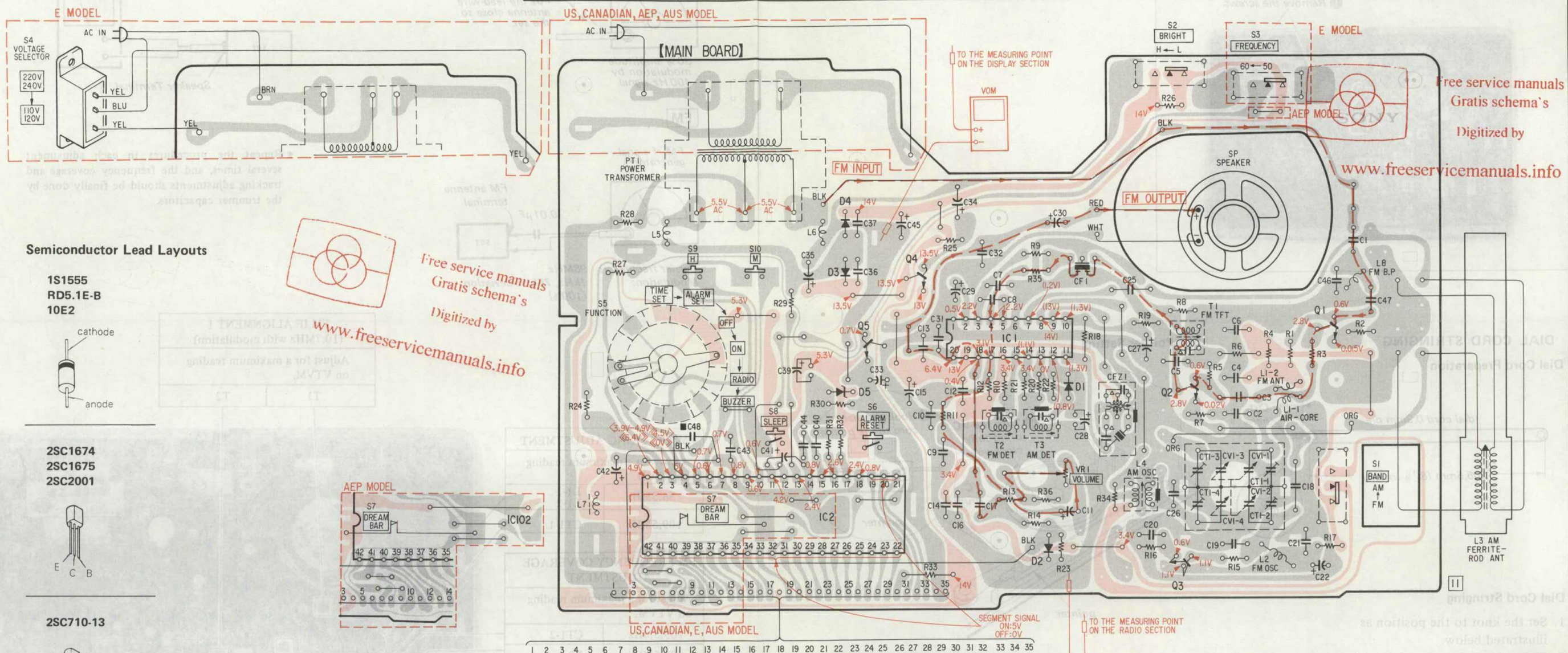
CT1-4	L4
1680kHz	520kHz
Adjust for a maximum reading on VTVM.	
AM FREQUENCY COVERAGE ADJUSTMENT	

CFZ1	455kHz
Adjust for a maximum reading on VTVM.	
AM IF ALIGNMENT	

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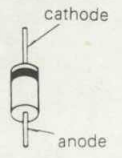
4-1. MOUNTING DIAGRAM  
- Conductor Side -

Q, IC	IC2	IC1	Q, IC
D	4 3 5	1 2	D

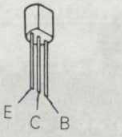


Semiconductor Lead Layouts

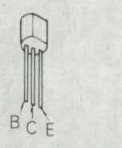
1S1555  
RD5.1E-B  
10E2



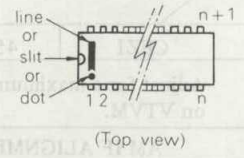
2SC1674  
2SC1675  
2SC2001



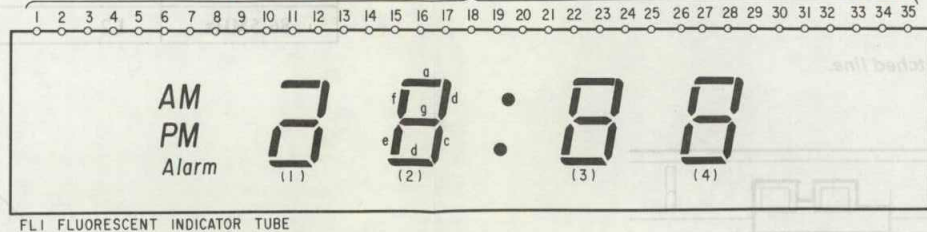
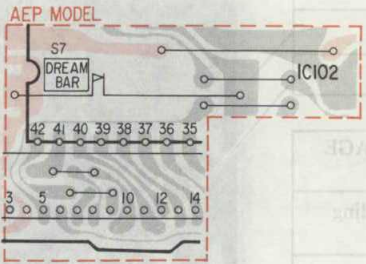
2SC710-13



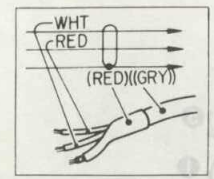
LM1868N  
MSM55501RS



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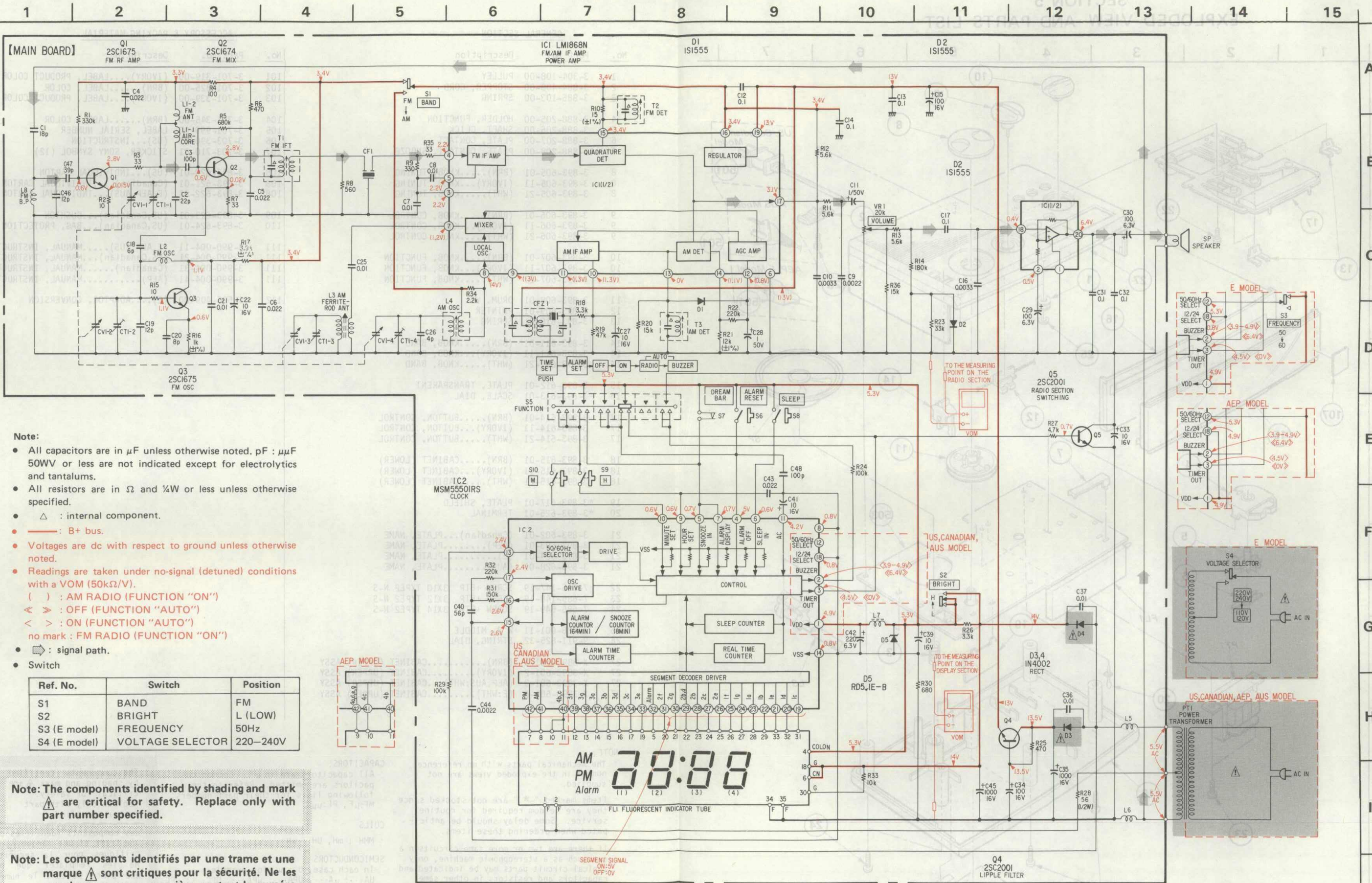
Note:  
• Color code of sleeving over the end of the jacket.



- ○ : parts extracted from the component side.
- ■ : part mounted on the conductor side.
- [ ] : indicates side identified with part number.
- → : signal path
- ● : B+ pattern

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Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$  :  $\mu\text{mF}$  50WV 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.
- $\text{---}$  : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50k $\Omega$ /V).
- ( ) : AM RADIO (FUNCTION "ON")
- $\langle \rangle$  : OFF (FUNCTION "AUTO")
- $< >$  : ON (FUNCTION "AUTO")
- no mark : FM RADIO (FUNCTION "ON")
- $\Rightarrow$  : signal path.
- Switch

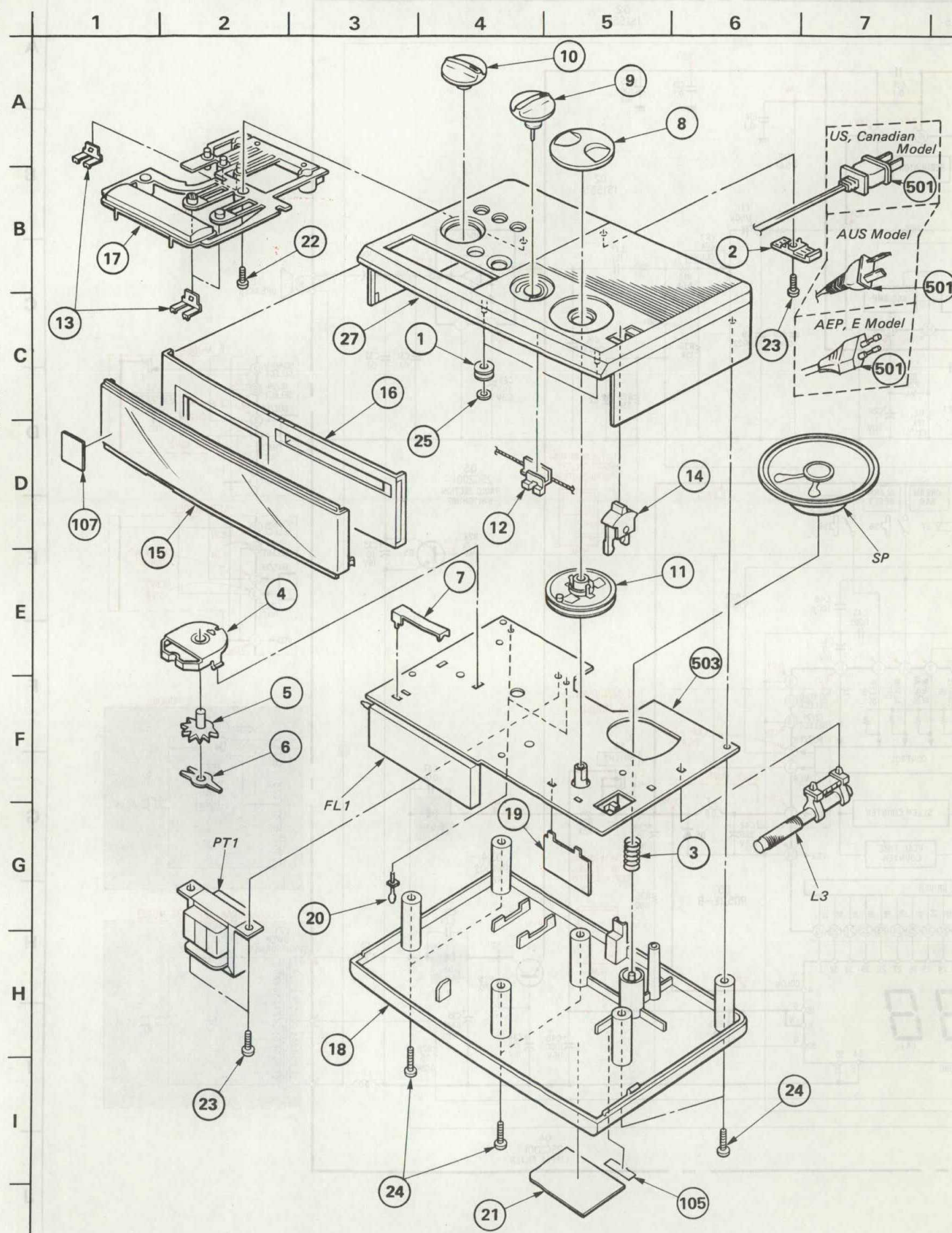
Ref. No.	Switch	Position
S1	BAND	FM
S2	BRIGHT	L (LOW)
S3 (E model)	FREQUENCY	50Hz
S4 (E model)	VOLTAGE SELECTOR	220-240V

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

Note: Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Voltages are measured with a VOM (50k $\Omega$ /V).

SECTION 5  
EXPLODED VIEW AND PARTS LIST



GENERAL SECTION		
No.	Part No.	Description
1	3-304-108-00	PULLEY
2	3-884-408-00	STOPPER, CORD
3	3-885-103-00	SPRING
4	3-888-205-00	HOLDER, FUNCTION
5	3-888-206-00	SHAFT, CLICK
6	3-888-207-00	PLATE, CONTACT
7	*3-888-208-00	PLATE, CONTACT, SNOOZE
8	3-893-605-01	(BRN).....KNOB, TUNING
8	3-893-605-11	(IVORY).....KNOB, TUNING
8	3-893-605-21	(WHT).....KNOB, TUNING
9	3-893-606-01	(BRN).....KNOB, CONTROL
9	3-893-606-11	(IVORY).....KNOB, CONTROL
9	3-893-606-21	(WHT).....KNOB, CONTROL
10	3-893-607-01	(BRN).....KNOB, FUNCTION
10	3-893-607-11	(IVORY).....KNOB, FUNCTION
10	3-893-607-21	(WHT).....KNOB, FUNCTION
11	3-893-608-01	DRUM, VC
12	3-893-609-01	POINTER
13	3-893-610-01	SPRING
14	3-893-611-01	(BRN).....KNOB, BAND
14	3-893-611-11	(IVORY).....KNOB, BAND
14	3-893-611-21	(WHT).....KNOB, BAND
15	3-893-612-01	PLATE, TRANSPARENT
16	3-893-613-01	SCALE, DIAL
17	3-893-614-01	(BRN).....BUTTON, CONTROL
17	3-893-614-11	(IVORY).....BUTTON, CONTROL
17	3-893-614-21	(WHT).....BUTTON, CONTROL
18	3-893-615-01	(BRN).....CABINET (LOWER)
18	3-893-615-11	(IVORY).....CABINET (LOWER)
18	3-893-615-21	(WHT).....CABINET (LOWER)
19	*3-893-617-01	PLATE, SHIELD
20	*3-893-625-01	TERMINAL
21	3-893-602-01	(Canadian)....PLATE, NAME
21	3-893-603-01	(AEP).....PLATE, NAME
21	3-893-604-01	(E).....PLATE, NAME
21	3-893-628-01	(AUS).....PLATE, NAME
22	7-685-147-19	SCREW +BTP 3X10 TYPE2 N-S
23	7-685-148-19	SCREW +BTP 3X12 TYPE2 N-S
24	7-685-549-19	SCREW +BTP 3X14 TYPE2 N-S
25	7-688-001-11	W 2, MIDDLE
26	9-911-825-32	STRING, DIAL
27	X-3893-601-1	(BRN).....CABINET (UPPER) ASSY
27	X-3893-601-2	(IVORY).....CABINET (UPPER) ASSY
27	X-3893-601-3	(AEP,AUS:WHT)....CABINET (UPPER) ASSY
27	X-3893-601-6	(E:WHT).....CABINET (UPPER) ASSY

ACCESSORY & PACKING MATERIAL		
No.	Part No.	Description
101	3-701-319-00	(IVORY)....LABEL, PRODUCT COLOR
102	3-701-325-00	(BRN).....LABEL, COLOR
103	3-701-339-00	(IVORY)....LABEL, PRODUCT COLOR
104	3-701-345-00	(BRN).....LABEL, COLOR
105	3-701-999-00	LABEL, SERIAL NUMBER
106	3-703-390-01	(US)...INSTRUCTION
107	3-703-710-01	STICKER, SONY SYMBOL (12)
108	3-893-620-01	(US)...INDIVIDUAL CARTON
108	3-893-621-01	(Canadian)....INDIVIDUAL CARTON
108	3-893-622-01	(E,AEP,AUS)...INDIVIDUAL CARTON
109	3-893-623-01	(US,Canadian)...CUSHION
110	3-893-624-01	(US,Canadian)...BAG, PROTECTION
111	3-990-004-11	(E,AEP,AUS)....MANUAL, INSTRUCTION
111	3-990-004-21	(US,Canadian)...MANUAL, INSTRUCTION
111	3-990-004-31	(Canadian).....MANUAL, INSTRUCTION
111	3-990-004-41	(AEP).....MANUAL, INSTRUCTION
112	1-506-409-00	(E)....ADAPTOR, CONVERSION

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.
- 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:

All capacitors are in  $\mu\text{F}$ . Common capacitors are omitted. Refer to the following lists for their part numbers.  
MF: $\mu\text{F}$ , PF: $\mu\text{F}$ .

COILS

MMH : mH, UH :  $\mu\text{H}$

SEMICONDUCTORS

In each case, U :  $\mu$ , for example:  
UA....  $\mu\text{A}$ ...., UPA....  $\mu\text{PA}$ ...., UPC....  $\mu\text{PC}$ ...., UPD....  $\mu\text{PD}$ ....

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	△.1-551-949-00	(US,Canadian)...CORD, POWER			
501	△.1-551-958-00	(E,AEP).....CORD, POWER			
501	△.1-555-815-21	(AUS).....CORD, POWER			
502	*A-3660-516-A	MOUNT ASSY			
C1	1-102-957-00	CERAMIC	18PF	10%	50V
C2	1-102-967-00	CERAMIC	22PF	10%	50V
C3	1-102-975-00	CERAMIC	100PF	10%	50V
C4	1-161-034-00	CERAMIC	0.022MF	20%	25V
C5	1-161-034-00	CERAMIC	0.022MF	20%	25V
C6	1-161-034-00	CERAMIC	0.022MF	20%	25V
C7	1-161-032-00	CERAMIC	0.01MF	20%	25V
C8	1-161-032-00	CERAMIC	0.01MF	20%	25V
C9	1-161-028-00	CERAMIC	0.0022MF	20%	25V
C10	1-161-029-00	CERAMIC	0.0033MF	20%	25V
C11	1-123-380-00	ELECT	1MF	20%	50V
C12	1-161-974-00	CERAMIC	0.1MF	5%	16V
C13	1-161-974-00	CERAMIC	0.1MF	5%	16V
C14	1-161-974-00	CERAMIC	0.1MF	5%	16V
C15	1-123-333-00	ELECT	100MF	20%	16V
C16	1-161-029-00	CERAMIC	0.0033MF	20%	25V
C17	1-161-773-00	CERAMIC	0.1MF	20%	25V
C18	1-102-943-00	CERAMIC	6PF	0.5PF	50V
C19	1-102-716-00	CERAMIC	12PF	5%	50V
C20	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C21	1-161-032-00	CERAMIC	0.01MF	20%	25V
C22	1-123-356-00	ELECT	10MF	20%	16V
C25	1-101-004-00	CERAMIC	0.01MF		50V
C26	1-102-937-00	CERAMIC	4PF	0.5PF	50V
C27	1-123-356-00	ELECT	10MF	20%	16V
C28	1-123-380-00	ELECT	1MF	20%	50V
C29	1-123-307-00	ELECT	100MF	20%	6.3V
C30	1-123-307-00	ELECT	100MF	20%	6.3V
C31	1-161-974-00	CERAMIC	0.1MF	5%	16V
C32	1-161-974-00	CERAMIC	0.1MF	5%	16V
C33	1-123-356-00	ELECT	10MF	20%	16V
C34	1-123-333-00	ELECT	100MF	20%	16V
C35	1-123-324-00	ELECT	1000MF	20%	16V
C36	1-101-004-00	CERAMIC	0.01MF		50V
C37	1-101-004-00	CERAMIC	0.01MF		50V
C39	1-123-356-00	ELECT	10MF	20%	16V
C40	1-101-884-00	CERAMIC	56PF	10%	50V
C41	1-123-356-00	ELECT	10MF	20%	16V
C42	1-123-308-00	ELECT	220MF	20%	6.3V
C43	1-161-034-00	CERAMIC	0.022MF	20%	25V
C44	1-161-028-00	CERAMIC	0.0022MF	20%	25V
C45	1-123-324-00	ELECT	1000MF	20%	16V

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 MF: $\mu$ F, PF: $\mu$ F.

COILS

MMH : mH, UH :  $\mu$ H

SEMICONDUCTORS

In each case, U :  $\mu$ , for example:  
 UA...:  $\mu$ A..., UPA...:  $\mu$ PA..., UPC...:  $\mu$ PC,  
 UPD...:  $\mu$ PD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C46	1-102-949-00	CERAMIC	12PF	10%	50V
C47	1-102-965-00	CERAMIC	39PF	10%	50V
C48	1-102-975-00	CERAMIC	100PF	10%	50V
CF1	1-527-795-71	FILTER, CERAMIC			
CFZ1	1-403-163-00	CERAMIC FILTER (VOLUME)			
CV1	1-151-478-11	CAP, TUNING, POLYETHYLENE			
CT1					
D1	8-719-815-55	DIODE 1S1555			
D2	8-719-815-55	DIODE 1S1555			
D3	△.8-719-200-02	DIODE 10E2			
D4	△.8-719-200-02	DIODE 10E2			
D5	8-719-151-07	DIODE RD5.1E-B			
FL1	1-519-271-00	INDICATOR TUBE, FLUORESCENT			
IC1	1-806-474-11	IC LM1868N			
IC2	1-806-242-11	IC MSM55501RS (LSI)			
L1-1	*1-422-125-00	COIL, AIR-CORE			
L1-2	*1-422-189-11	COIL, FM ANT			
L2	1-422-131-00	COIL, FM OSCILLATION			
L3	1-402-116-11	ANTENNA, FERRITE-ROD (MW)			
L4	1-406-028-00	COIL, OSC (MW)			
L5	*1-409-293-00	COIL, AIR CORE			
L6	*1-409-293-00	COIL, AIR CORE			
L7	1-408-096-00	MICRO INDUCTOR 470UH			
L8	*1-422-120-00	COIL, AIR-CORE			
PT1	△.1-447-917-11	(US).....TRANSFORMER, POWER			
PT1	△.1-447-921-11	(Canadian)...TRANSFORMER, POWER			
PT1	△.1-447-925-11	(E).....TRANSFORMER, POWER			
PT1	△.1-447-926-11	(AUS).....TRANSFORMER, POWER			
PT1	△.1-447-927-11	(AEP).....TRANSFORMER, POWER			
Q1	8-729-671-13	TRANSISTOR 2SC710-13			
Q2	8-729-167-42	TRANSISTOR 2SC1674			
Q3	8-729-671-13	TRANSISTOR 2SC710-13			
Q4	8-729-100-13	TRANSISTOR 2SC2001			
Q5	8-729-100-13	TRANSISTOR 2SC2001			
R1	1-246-533-00	CARBON	330K	5%	1/4W
R2	1-247-083-00	CARBON	10	5%	1/4W
R3	1-247-095-00	CARBON	33	5%	1/4W
R4	1-247-107-00	CARBON	100	5%	1/4W
R5	1-246-541-00	CARBON	680K	5%	1/4W
R6	1-246-465-00	CARBON	470	5%	1/4W
R7	1-247-095-00	CARBON	33	5%	1/4W
R8	1-247-125-00	CARBON	560	5%	1/4W
R9	1-247-119-00	CARBON	330	5%	1/4W

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



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ELECTRICAL PARTS

Ref.No.	Part No.	Description	15K	5%	1/4W
R10	1-247-859-00	CARBON	15K	5%	1/4W
R11	1-246-491-00	CARBON	5.6K	5%	1/4W
R12	1-246-491-00	CARBON	5.6K	5%	1/4W
R13	1-246-491-00	CARBON	5.6K	5%	1/4W
R14	1-247-885-00	CARBON	180K	5%	1/4W
R15	1-247-083-00	CARBON	10	5%	1/4W
R16	1-246-473-00	CARBON	1K	1%	1/4W
R17	1-246-487-00	CARBON	3.9K	1%	1/4W
R18	1-247-143-00	CARBON	3.3K	5%	1/4W
R19	1-246-513-00	CARBON	47K	5%	1/4W
R20	1-247-859-00	CARBON	15K	5%	1/4W
R21	1-246-499-00	CARBON	12K	1%	1/4W
R22	1-246-529-00	CARBON	220K	5%	1/4W
R23	1-246-509-00	CARBON	33K	5%	1/4W
R24	1-246-521-00	CARBON	100K	5%	1/4W
R25	1-246-465-00	CARBON	470	5%	1/4W
R26	1-247-143-00	CARBON	3.3K	5%	1/4W
R27	1-246-489-00	CARBON	4.7K	5%	1/4W
R28	1-244-843-00	CARBON	56	5%	1/2W
R29	1-246-521-00	CARBON	100K	5%	1/4W
R30	1-246-469-00	CARBON	680	5%	1/4W
R31	1-247-883-00	CARBON	150K	5%	1/8W
R32	1-247-887-00	CARBON	220K	5%	1/8W
R33	1-247-155-00	CARBON	10K	5%	1/4W
R34	1-246-481-00	CARBON	2.2K	5%	1/4W
R35	1-247-095-00	CARBON	33	5%	1/4W
R36	1-246-501-00	CARBON	15K	5%	1/4W
S1	1-554-694-00	SWITCH, SLIDE (BAND)			
S2	1-553-811-00	SWITCH, SLIDE (BRIGHT)			
S3	1-553-811-00	(E)....SWITCH, SLIDE (FREQUENCY)			
S4	▲1-554-192-00	(E)....SWITCH, SLIDE (VOLTAGE SELECTOR)			
SP	1-503-383-11	SPEAKER			
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)			
T2	1-404-249-00	COIL, FM			
T3	1-404-408-00	COIL, DETECTOR IFT			
VR1	1-226-824-00	RES, ADJ, CARBON 20K			

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.
- 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:

All capacitors are in  $\mu\text{F}$ . Common capacitors are omitted. Refer to the following lists for their part numbers.  
 MF:  $\mu\text{F}$ , PF:  $\mu\text{P}$ .

COILS

MMH : mH, UH :  $\mu\text{H}$

SEMICONDUCTORS

In each case, U :  $\mu$ , for example:  
 UA... :  $\mu\text{A}$ ..., UPA... :  $\mu\text{PA}$ ..., UPC... :  $\mu\text{PC}$ ,  
 UPD... :  $\mu\text{PD}$ ...



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