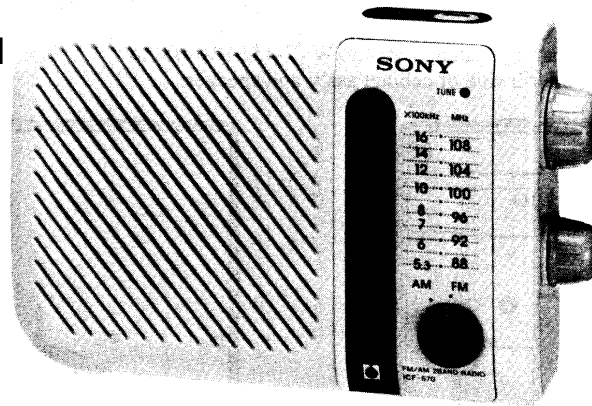


# ICF-S70

## SERVICE MANUAL

Ver 1.0 2000.03  
With SUPPLEMENT-1  
(9-959-641-82)



*US Model  
Canadian Model  
AEP Model*

SHOWER MATE

### SPECIFICATIONS

**Frequency range** FM: 87.6 – 108 MHz, AM: 530 – 1,605 kHz  
**Speaker** Approx. 7.7 cm (3 $\frac{1}{8}$  inches) dia. **Power output** 250 mW  
(at 10% harmonic distortion) **Power requirements** 4.5 V DC, three  
size C (R14) batteries **Auto power off** Approx. 60 minutes  
**Dimensions** Approx. 205 x 134.5 x 61.7 mm (w/h/d) (8 $\frac{1}{8}$  x 5 $\frac{3}{8}$  x 2 $\frac{1}{2}$   
inches) **Mass** Approx. 575 g (1 lb. 4 oz), incl. batteries  
**Supplied accessories** Suction cup (1), Strap (1)

Design and specifications are subject to change without notice.



FM/AM RADIO  
**SONY**®

# SECTION 1

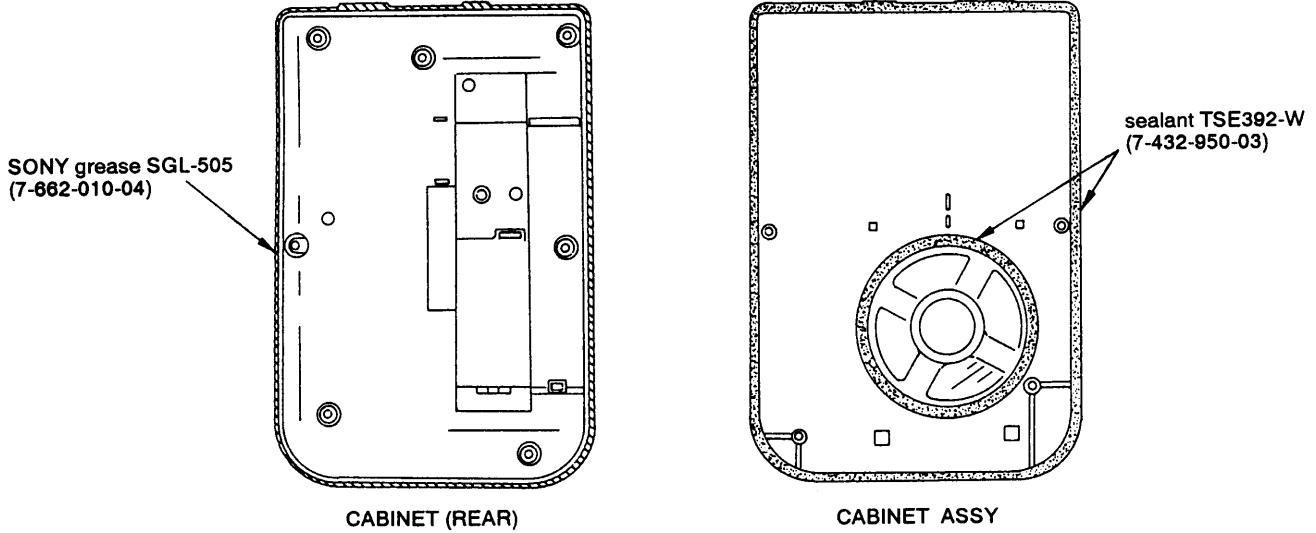
## SERVICE NOTE

● **DRIP-PROOF TYPE**

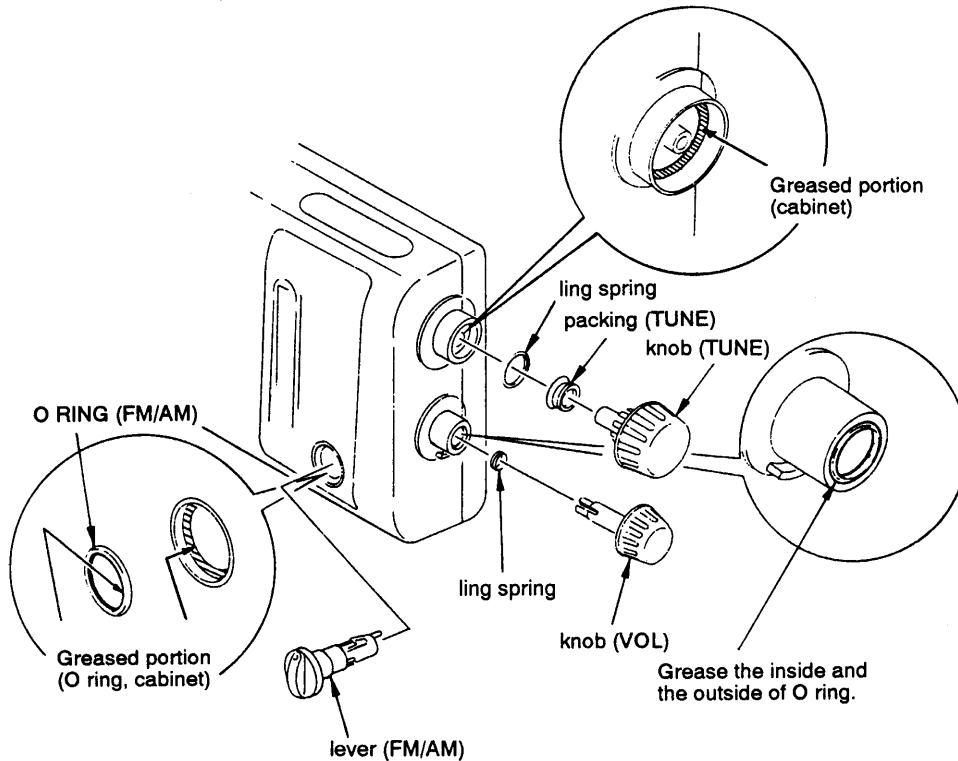
When removing cabinets or knobs on repairing, be sure to do followings.

Apply SONY grease SGL-505 (7-662-010-04) to all around the rib side of cabinet (rear) with a cotton swab or the like.

Apply the coating-sealant TSE-392W (7-432-950-03) to all around the rib side of cabinet ass'y and speaker.



Apply SONY grease SGL-505 (7-662-010-04) to portions on knobs and packings as shown below.



**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

This section is extracted from instruction manual.

## SECTION 2 GENERAL

### Precautions

- To avoid electrical shock, do not open the unit. Refer servicing to qualified personnel only.
- The nameplate indicating operating voltage, etc. is located at the rear.
- Avoid exposure to temperature extremes, excessive dust. Never leave in a car parked in the sun.
- Do not give a shock and strong vibration.
- Avoid leaving the unit for an extended period of time in a place subject to direct sunlight.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.
- Clean the unit with a soft cloth. Never use abrasive cleansers or chemical solvent, as they may damage the unit.

### Battery Warning

When the unit will not be used for a long time, remove the batteries to avoid undue battery discharge and damage to the unit from battery leakage.

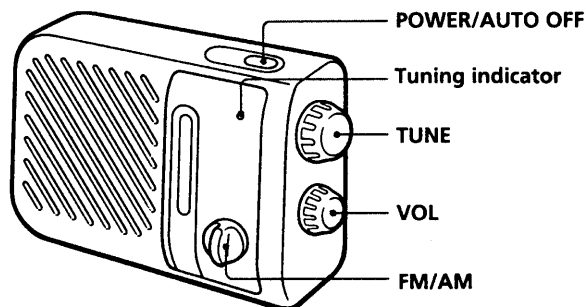
### DO NOT IMMERSE IN WATER

This product is not meant to be immersed in water or come in continuous contact with water.

- Open the battery compartment lid with dry hands where water cannot fall into the unit.
- Do not pour running water onto the unit.
- Do not expose the unit to water that is warmer than 70°C (158°F) for long time.
- When the unit gets wet or if you accidentally drop the unit into the water, wipe it with a soft cloth.
- Do not touch the unit with hands wet with soapsuds.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

### Playing the Radio



- 1** Press POWER/AUTO OFF to turn on the radio.
- 2** Select band with FM/AM.
- 3** Tune in a station with the TUNE dial.  
When a station is tuned in, the tuning indicator lights up.
- 4** Adjust VOL (volume).

### To Turn Off The Radio

Press POWER/AUTO OFF again.

### When The Power Is Turned Off Automatically

The radio is turned off automatically in about 60 minutes to prevent unnecessary wear of the batteries.

To listen to the radio continuously, press POWER/AUTO OFF.

## SECTION 3 DISASSEMBLY

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

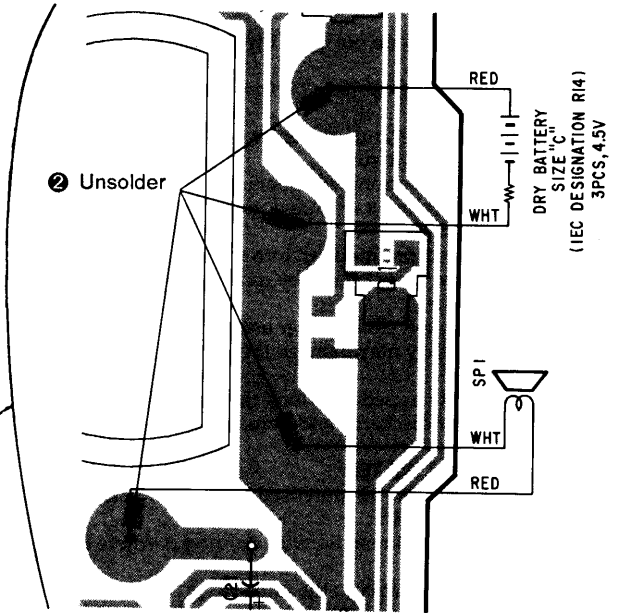
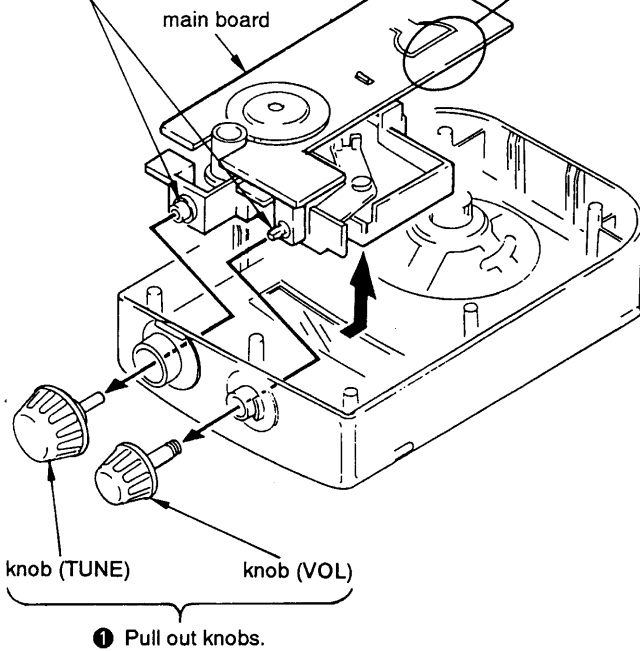
### REAR CABINET

Remove 7 screws secured the rear cabinet.  
(One of them is inside of the battery case.)  
At this time, be careful not to cut the lead wire to battery terminal.



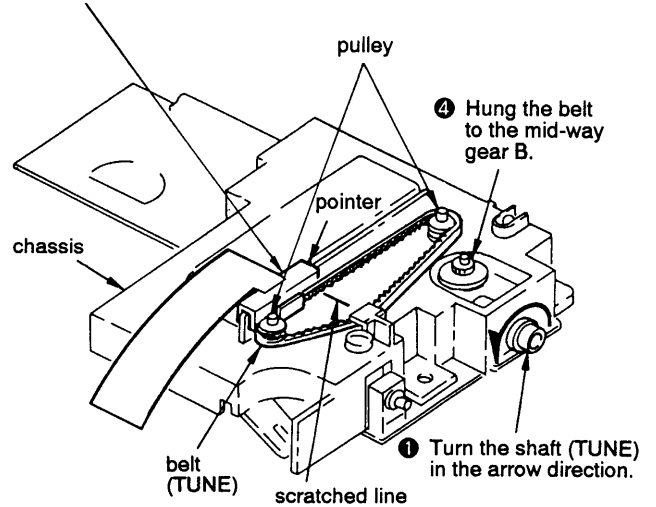
### MAIN BOARD

- ② Remove the main board by pulling out shafts from holes on the front cabinet.  
Note :Be sure to remove LED (TLR124) first before shafts.



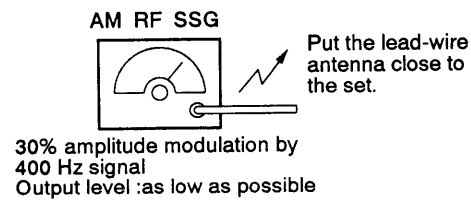
### DIAL POINTER SETTING

- ② Put the pointer ass'y to rail and hung the belt to two pulleys.  
③ Adjust the pointer to the scratched line.

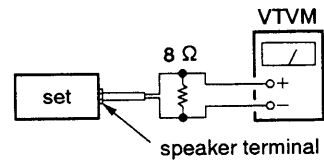
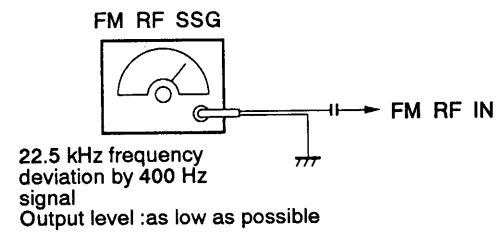


## SECTION 4 ADJUSTMENTS

### AM Section



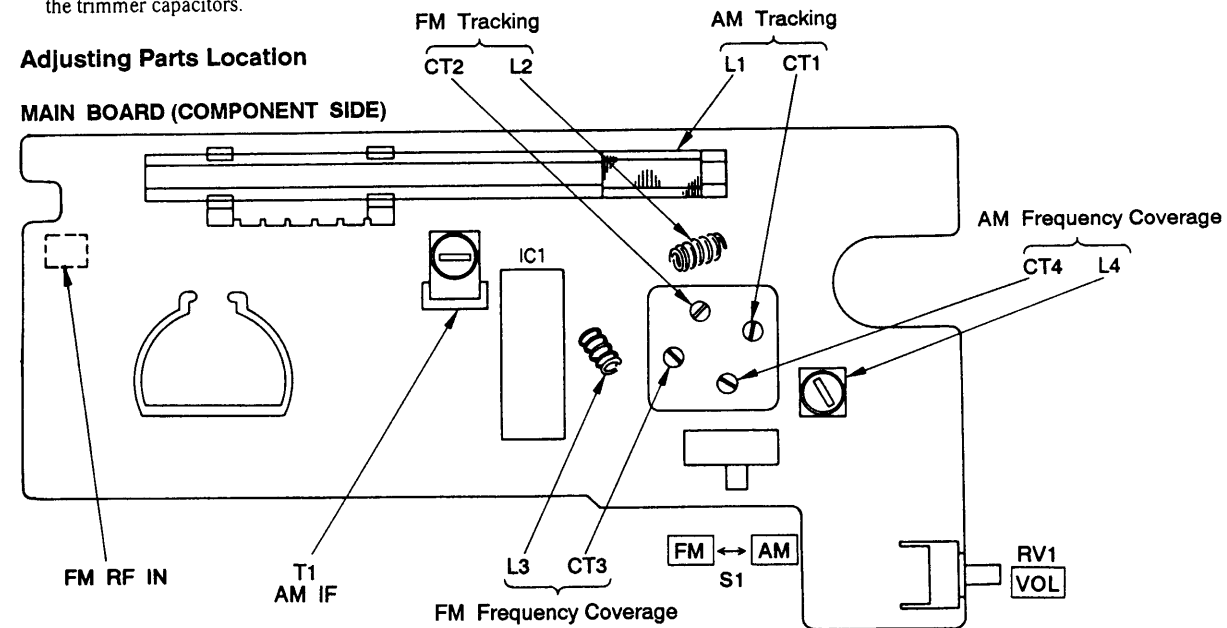
### FM Section



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

### Adjusting Parts Location

#### MAIN BOARD (COMPONENT SIDE)



| AM IF ADJUSTMENT                      |         |
|---------------------------------------|---------|
| Adjust for a maximum reading on VTVM. |         |
| T1                                    | 455 kHz |

| AM FREQUENCY COVERAGE ADJUSTMENT      |           |
|---------------------------------------|-----------|
| Adjust for a maximum reading on VTVM. |           |
| L4                                    | 520 kHz   |
| CT4                                   | 1,650 kHz |

| AM TRACKING ADJUSTMENT                |           |
|---------------------------------------|-----------|
| Adjust for a maximum reading on VTVM. |           |
| L1                                    | 600 kHz   |
| CT1                                   | 1,400 kHz |

| FM FREQUENCY COVERAGE ADJUSTMENT      |           |
|---------------------------------------|-----------|
| Adjust for a maximum reading on VTVM. |           |
| L3                                    | 87.0 MHz  |
| CT3                                   | 109.5 MHz |

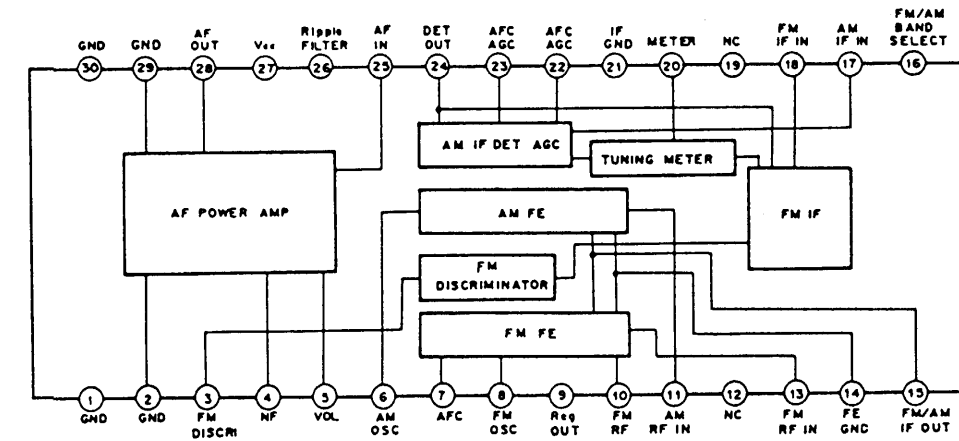
| FM TRACKING ADJUSTMENT                |           |
|---------------------------------------|-----------|
| Adjust for a maximum reading on VTVM. |           |
| L2                                    | 87.0 MHz  |
| CT2                                   | 109.5 MHz |

Adjustment Location :MAIN BOARD

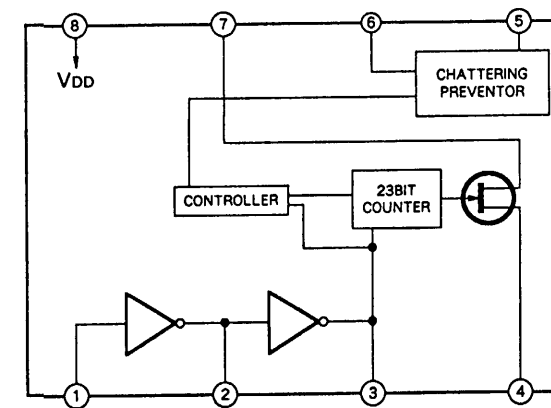
## SECTION 5 DIAGRAMS

### • IC Block Diagrams

#### IC1 CXA1019S

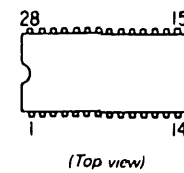


#### IC2 BU2305

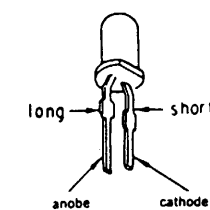


### • Semiconductor Lead Layouts

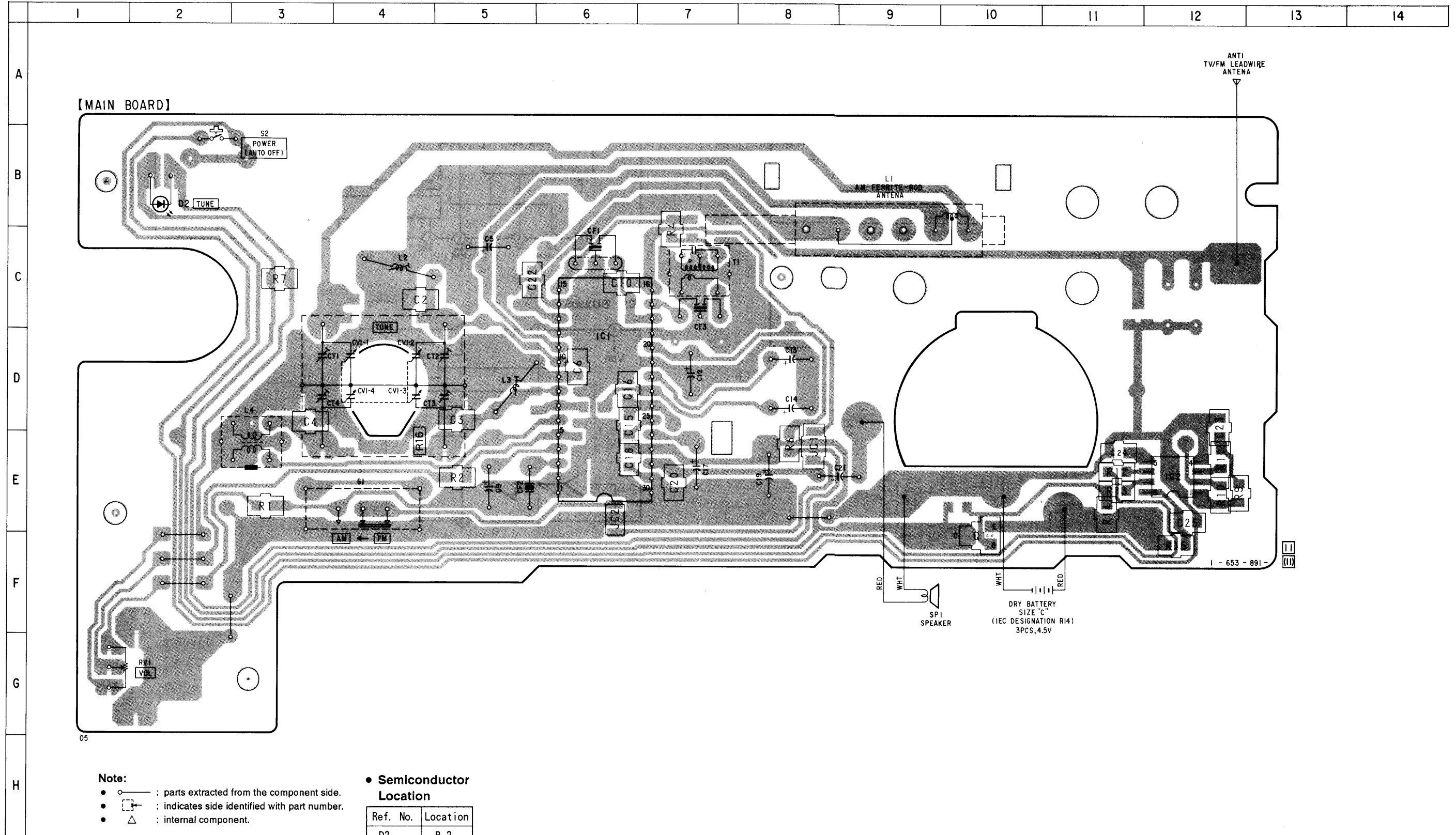
#### CXA1019S



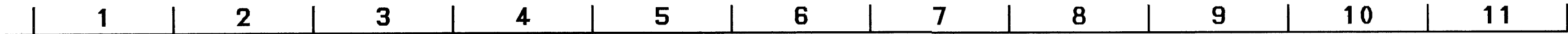
#### TLR124



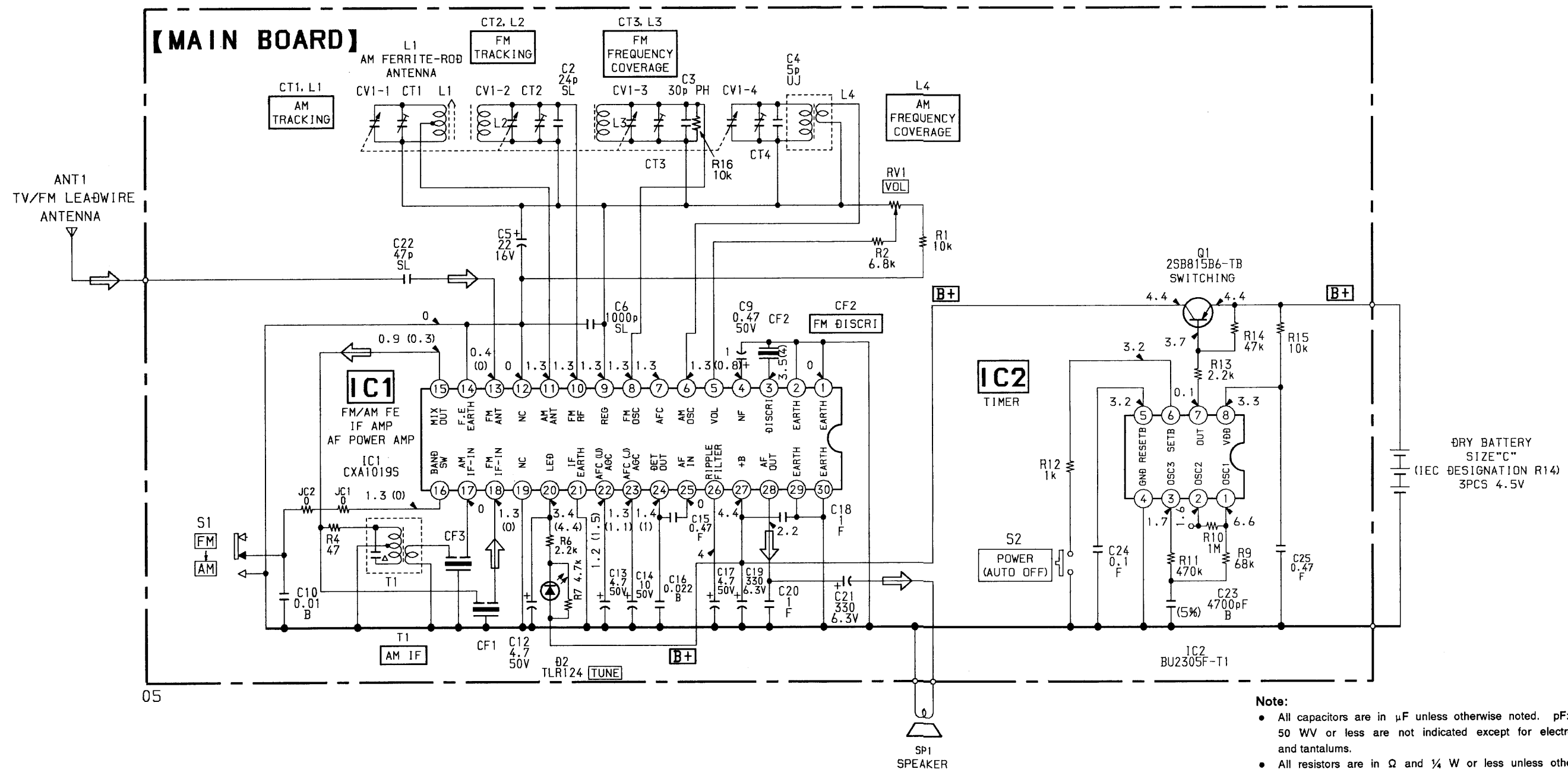
5-1. PRINTED WIRING BOARD • See page 6 for Semiconductor Lead Layouts.



5-2. SCHEMATIC DIAGRAM • See page 6 for IC Block Diagrams.



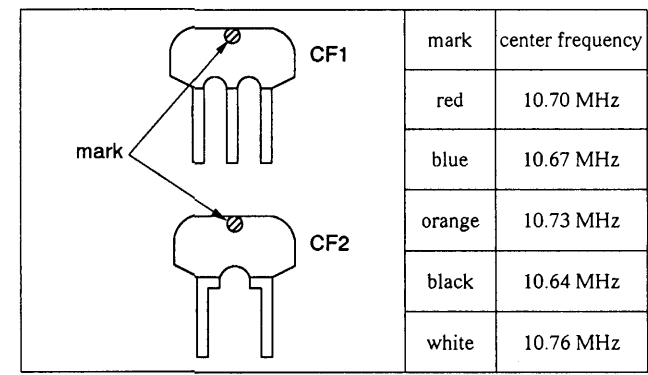
A  
B  
C  
D  
E  
F



05

**HOW TO CHANGE THE CERAMIC FILTERS**

This model is used two ceramic filters of CF1 and CF2. You must use same type of color marked ceramic filters in order to meet same specifications. Therefore, the ceramic filter must be changed two pieces together since it's supplied two pieces in one package as spare parts.



**Note:**

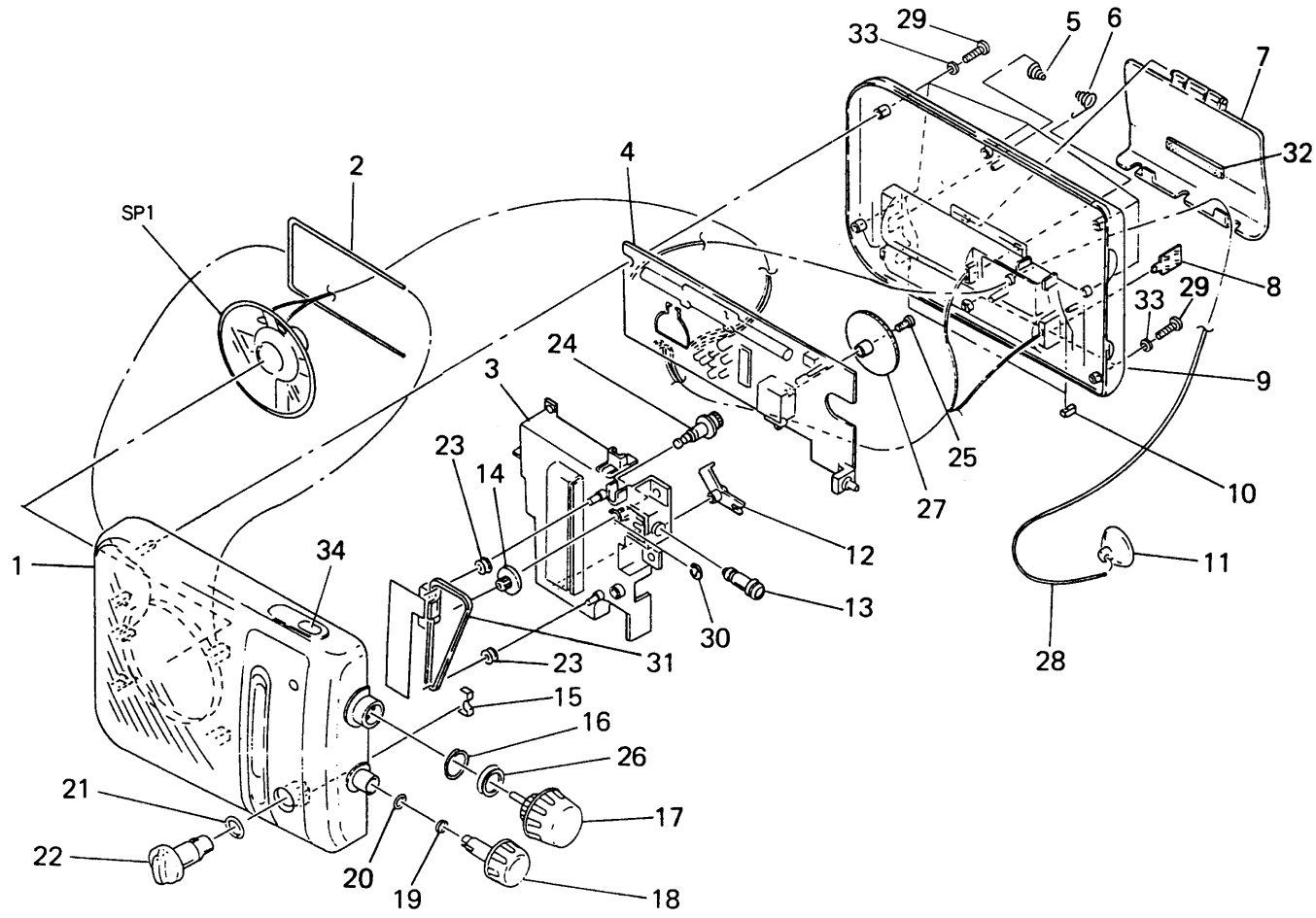
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}$  W or less unless otherwise specified.
- $\triangle$ : internal component.
- **B+**: B + Line.
- $\square$ : panel designation.
- $\square$ : adjustment for repair.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark : COMMON ( ): AM
- Voltages are taken with a VOM (10 M $\Omega$ /V). Voltage variations may be noted due to normal production tolerances.
- Signal path.  $\Rightarrow$  : FM

## SECTION 6 EXPLODED VIEWS

SEE ADDITIONAL  
INFORMATION

**NOTE:**

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.



| Ref. No. | Part No.     | Description              | Remark | Ref. No. | Part No.     | Description                   | Remark |
|----------|--------------|--------------------------|--------|----------|--------------|-------------------------------|--------|
| 1        | X-3369-764-1 | FRONT CABINET ASSY       |        | 18       | 3-917-352-01 | KNOB (VOL)                    |        |
| 2        | 3-917-359-01 | SPRING (SP), PLUG        |        | 19       | 3-907-103-01 | SPRING, RING                  |        |
| 3        | 3-917-362-01 | CHASSIS                  |        | 20       | 3-917-351-01 | RING (VOL), 0                 |        |
| * 4      | A-3679-645-A | MAIN BOARD, COMPLETE     |        | 21       | 3-917-353-01 | RING (BAND), 0                |        |
| 5        | 3-917-371-01 | TERMINAL (+/-), BATTERY  |        | 22       | 3-917-348-01 | KNOB (BAND) (FM/AM)           |        |
| 6        | 3-906-537-01 | TERMINAL B (-), BATTERY  |        | 23       | 3-304-108-00 | PULLEY                        |        |
| 7        | 3-917-370-01 | LID, BATTERY CASE        |        | 24       | 3-917-365-01 | GEAR (A), MIDWAY              |        |
| 8        | 3-889-721-00 | TERMINAL BOARD, POSITIVE |        | 25       | 3-919-774-11 | SCREW (M2. 6X5 LOCK ACE)      |        |
| 9        | 3-917-369-01 | CABINET (REAR)           |        | 26       | 3-917-350-01 | PACKING (TUNE)                |        |
| 10       | 3-899-830-01 | FOOT, RUBBER             |        | 27       | 3-378-878-01 | GEAR (TUNING CAPACITOR)       |        |
| 11       | 3-917-356-01 | SUCKER                   |        | 28       | 1-769-097-11 | LEAD, ANTENNA                 |        |
| 12       | 3-917-368-01 | LEVER (BAND)             |        | 29       | 7-685-136-19 | SCREW +BTP 2. 6X12 TYPE 2 N-S |        |
| 13       | 3-380-908-01 | SHAFT (TUN)              |        | 30       | 7-624-104-04 | STOP RING 2.0 TYPE -E         |        |
| 14       | 3-917-366-01 | GEAR (B), MIDWAY         |        | 31       | X-3369-280-1 | POINTER ASSY                  |        |
| 15       | 3-909-780-01 | SPRING (B), CLICK        |        | 32       | 9-911-830-XX | CUSHION                       |        |
| 16       | 3-900-151-01 | SPRING, RING             |        | 33       | 3-701-439-11 | WASHER                        |        |
| 17       | 3-917-349-01 | KNOB (TUNE)              |        | 34       | 3-917-361-13 | BUTTON (POWER)                |        |
|          |              |                          |        | SP1      | 1-504-918-11 | SPEAKER                       |        |

## SECTION 7 ELECTRICAL PARTS LIST

MAIN

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A. uPA...:  $\mu$ PA.  
uPB...:  $\mu$ PB. uPC...:  $\mu$ PC. uPD...:  $\mu$ PD.
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

When indicating parts by reference number, please include the board.

| Ref. No.       | Part No.     | Description                   | Remark   | Ref. No. | Part No.     | Description                         | Remark |
|----------------|--------------|-------------------------------|----------|----------|--------------|-------------------------------------|--------|
| * A-3679-645-A |              | MAIN BOARD, COMPLETE<br>***** |          |          |              | < IC >                              |        |
|                |              | < CAPACITOR >                 |          | IC1      | 8-752-055-05 | IC CXA1019S                         |        |
|                |              |                               |          | IC2      | 8-759-044-56 | IC BU2305F                          |        |
|                |              | < JUMPER RESISTOR >           |          | JC1      | 1-216-296-00 | METAL CHIP 0 5% 1/8W                |        |
| C2             | 1-163-102-00 | CERAMIC CHIP 24PF             | 5% 50V   | JC2      | 1-216-296-00 | METAL CHIP 0 5% 1/8W                |        |
| C3             | 1-163-104-00 | CERAMIC CHIP 30PF             | 5% 50V   |          |              | < COIL >                            |        |
| C4             | 1-163-088-00 | CERAMIC CHIP 5PF              | 50V      | L1       | 1-402-566-11 | ANTENNA, FERRITE-ROD (MW)           |        |
| C5             | 1-124-234-00 | ELECT 22uF                    | 20% 16V  | * L2     | 1-422-320-11 | COIL, AIR-CORE                      |        |
| C6             | 1-163-141-00 | CERAMIC CHIP 0.001uF          | 5% 50V   | * L3     | 1-428-229-11 | COIL, AIR-CORE                      |        |
|                |              |                               |          | L4       | 1-406-028-00 | COIL, OSC (MW)                      |        |
| C9             | 1-124-902-00 | ELECT 0.47uF                  | 20% 50V  |          |              | < TRANSISTOR >                      |        |
| C10            | 1-164-232-11 | CERAMIC CHIP 0.01uF           | 50V      | Q1       | 8-729-807-87 | TRANSISTOR 2SB1295-UL6              |        |
| C12            | 1-126-963-11 | ELECT 4.7uF                   | 20% 50V  |          |              | < RESISTOR >                        |        |
| C13            | 1-126-963-11 | ELECT 4.7uF                   | 20% 50V  | R1       | 1-216-073-00 | METAL, CHIP 10K 5% 1/10W            |        |
| C14            | 1-124-907-11 | ELECT 10uF                    | 20% 50V  | R2       | 1-216-069-00 | METAL, CHIP 6.8K 5% 1/10W           |        |
|                |              |                               |          | R4       | 1-216-017-00 | METAL, CHIP 47 5% 1/10W             |        |
| C15            | 1-164-005-11 | CERAMIC CHIP 0.47uF           | 25V      | R6       | 1-216-057-00 | METAL, CHIP 2.2K 5% 1/10W           |        |
| C16            | 1-163-037-11 | CERAMIC CHIP 0.022uF          | 10% 25V  | R7       | 1-216-065-00 | METAL, CHIP 4.7K 5% 1/10W           |        |
| C17            | 1-126-963-11 | ELECT 4.7uF                   | 20% 50V  | R9       | 1-216-093-00 | METAL, CHIP 68K 5% 1/10W            |        |
| C18            | 1-164-346-11 | CERAMIC CHIP 1uF              | 16V      | R10      | 1-216-121-00 | METAL, CHIP 1M 5% 1/10W             |        |
| C19            | 1-124-442-00 | ELECT 330uF                   | 20% 6.3V | R11      | 1-216-113-00 | METAL, CHIP 470K 5% 1/10W           |        |
|                |              |                               |          | R12      | 1-216-049-00 | METAL, CHIP 1K 5% 1/10W             |        |
| C20            | 1-164-346-11 | CERAMIC CHIP 1uF              | 16V      | R13      | 1-216-057-00 | METAL, CHIP 2.2K 5% 1/10W           |        |
| C21            | 1-124-442-00 | ELECT 330uF                   | 20% 6.3V | R14      | 1-216-089-00 | METAL, CHIP 47K 5% 1/10W            |        |
| C22            | 1-163-109-00 | CERAMIC CHIP 47PF             | 5% 50V   | R15      | 1-216-073-00 | METAL, CHIP 10K 5% 1/10W            |        |
| C23            | 1-163-017-00 | CERAMIC CHIP 0.0047uF         | 5% 50V   | R16      | 1-216-073-00 | METAL, CHIP 10K 5% 1/10W            |        |
| C24            | 1-163-038-00 | CERAMIC CHIP 0.1uF            | 25V      |          |              | < VARIABLE RESISTOR >               |        |
|                |              |                               |          | RV1      | 1-223-738-11 | RES, VAR (VOL)                      |        |
| C25            | 1-164-005-11 | CERAMIC CHIP 0.47uF           | 25V      |          |              | < SWITCH >                          |        |
|                |              |                               |          | S1       | 1-552-370-00 | SWITCH, SOLDE (AM/FM)               |        |
|                |              |                               |          | S2       | 1-554-088-00 | SWITCH, KEY BOARD (POWER(AUTO OFF)) |        |
|                |              |                               |          |          |              | < DIODE >                           |        |
| CF1            | 1-567-097-61 | FILTER, CERAMIC               |          |          |              | < VARIABLE CAPACITOR >              |        |
| CF2            | 1-567-097-61 | FILTER, CERAMIC               |          | CV1      | 1-141-523-11 | CAP, VAR                            |        |
| CF3            | 1-577-072-11 | FILTER, CERAMIC               |          | CT1-4    |              |                                     |        |
|                |              |                               |          | D2       | 8-719-812-41 | LED TLR124 (TUNE)                   |        |



| Ref. No. | Part No. | Description | Remark |
|----------|----------|-------------|--------|
|----------|----------|-------------|--------|

T1 1-404-790-11 TRANSFORMER, IF

\*\*\*\*\*

MISCELLANEOUS  
\*\*\*\*\*

28 1-769-097-11 LEAD, ANTENNA  
SP1 1-504-918-11 SPEAKER

\*\*\*\*\*

ACCESSORIES & PACKING MATERIALS  
\*\*\*\*\*

3-759-209-21 MANUAL, INSTRUCTION (ENGLISH) (US)  
3-759-209-31 MANUAL, INSTRUCTION (ENGLISH, FRENCH)  
(Canadian)  
3-759-209-41 MANUAL, INSTRUCTION (GERMAN) (AEP)  
\* 3-917-354-11 INDIVIDUAL CARTON (US)  
\* 3-917-354-21 INDIVIDUAL CARTON (Canadian, AEP)  
X-3897-401-1 STRAP ASSY



# ICF-S70

## SONY SERVICE MANUAL

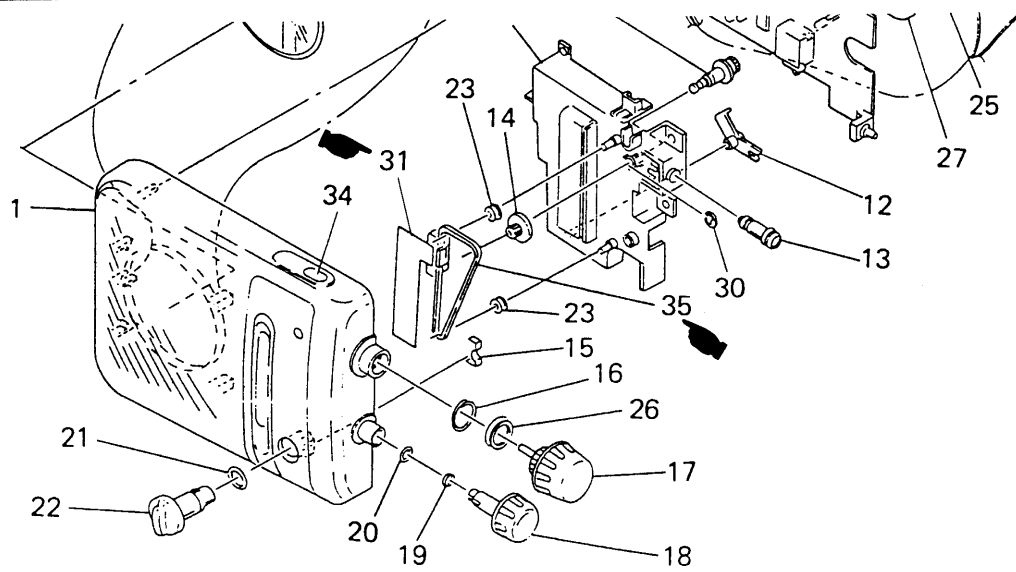
US Model  
Canadian Model  
AEP Model

### CORRECTION-2

Correct your service manual as shown below.

 : indicates corrected portion

| Page | INCORRECT |          |             | CORRECT |              |             |
|------|-----------|----------|-------------|---------|--------------|-------------|
|      | No.       | Part No. | Description | No.     | Part No.     | Description |
| 11   |           |          |             | 35      | 3-917-367-01 | BELT (TUNE) |

(SPM-96050)

# ICF-S70

SONY®

## SERVICE MANUAL

2000. 03

US Model  
Canadian Model  
AEP Model

### SUPPLEMENT-1

File this supplement with the service manual.

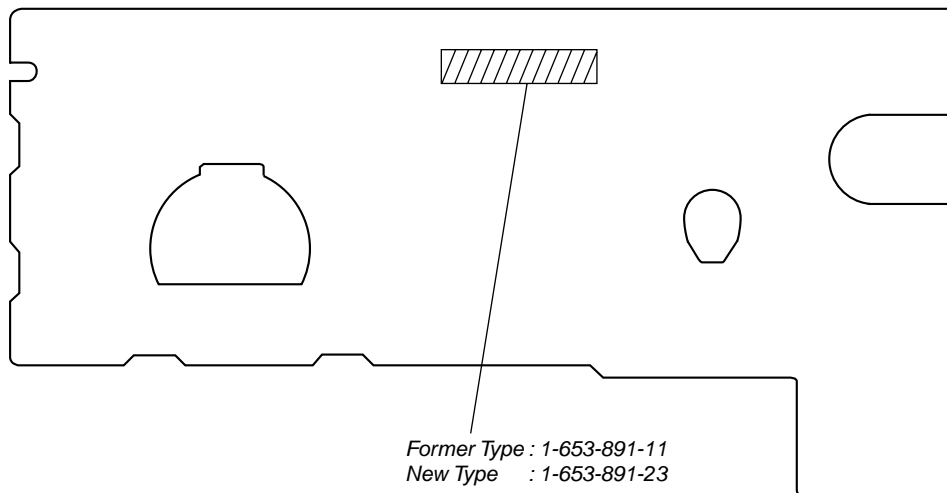
**Subject:**

1. Correction
2. Main Board Modification
3. US Model Modification  
(Serial No. 209,331 and later)

(ECN-TR801641)

• NEW/FORMER TYPE DISCRIMINATION


– MAIN BOARD (Component Side) –



• CORRECTION

(1) EXPLODED VIEWS

 : Indicates added or changed portion.

 : Indicates cancelled portion.

| Page | INCORRECT |              |                             |        | CORRECT  |              |                            |        |
|------|-----------|--------------|-----------------------------|--------|----------|--------------|----------------------------|--------|
|      | Ref. No.  | Part No.     | Description                 | Remark | Ref. No. | Part No.     | Description                | Remark |
| 11   | 8         | 3-889-721-00 | TERMINAL BOARD, POSITIVE    |        | 8        | 3-889-721-11 | TERMINAL BOARD, POSITIVE   |        |
|      | 11        | 3-917-356-01 | SUCKER                      |        | 11       | 3-040-605-01 | SUCKER                     |        |
|      | 16        | 3-900-151-01 | SPRING, RING                |        | 16       | 3-931-749-01 | SPRING, RING               |        |
|      | 25        | 3-919-774-11 | SCREW (M2.6X5 LOCK ACE)     |        |          |              |                            |        |
|      | 29        | 7-685-136-19 | SCREW +BTP 2.6X12 TYPE2 N-S |        |          |              |                            |        |
|      | <hr/>     |              |                             |        | <hr/>    |              |                            |        |
|      | 32        | 9-911-830-XX | CUSHION                     |        | 32       | 3-022-451-01 | CUSHION (BATTERY CASE LID) |        |
|      |           |              |                             |        | 36       | 3-025-103-01 | RETAINER, BELT             |        |
|      |           |              |                             |        | 37       | 3-363-895-01 | SCREW (M1.7)               |        |
|      |           |              |                             |        |          |              |                            |        |

**(2) ELECTRICAL PARTS LIST**

| Page | INCORRECT                       |  |              |   | CORRECT                         |  |                       |  |  |
|------|---------------------------------|--|--------------|---|---------------------------------|--|-----------------------|--|--|
|      | Ref. No.                        | Part No.                                 | Description  | Remark  | Ref. No.                        | Part No.                                 | Description           | Remark   |  |
| 13   | *****<br>HARDWARE LIST<br>***** |  |              |   | *****<br>HARDWARE LIST<br>***** |  |                       |  |  |
|      |                                 |  |              |   | #1                              | 7-621-770-87                             | SCREW +P 2.6X5        |  |  |
|      |                                 |  |              |   | #2                              | 7-685-536-19                             | SCREW (+B 2.6X12)     |  |  |
|      |                                 |  |              |   | #3                              | 7-624-104-04                             | STOP RING 2.0 TYPE -E |  |  |
|      |                                 | ACCESSORIES & PACKING MATERIALS<br>***** |              |   |                                 | ACCESSORIES & PACKING MATERIALS<br>***** |                       |  |  |
|      |                                 | 3-759-209-21                             |              | MANUAL, INSTRUCTION (ENGLISH) (US)                  |                                 | 3-810-421-21                             |                       | MANUAL, INSTRUCTION (ENGLISH) (US)   |  |
|      |                                 | 3-759-209-31                             |              | MANUAL, INSTRUCTION<br>(ENGLISH, FRENCH) (Canadian) |                                 | 3-810-421-31                             |                       | MANUAL, INSTRUCTION<br>(ENGLISH, FRENCH) (Canadian)                            |  |
|      |                                 | 3-759-209-41                             |              | MANUAL, INSTRUCTION (GERMAN) (AEP)                  |                                 | 3-810-421-11                             |                       | MANUAL, INSTRUCTION<br>(ENGLISH, GERMAN, ITALIAN, SWEDISH,<br>HUNGARIAN) (AEP) |  |
|      |                                 | *  | 3-917-354-11 | INDIVIDUAL CARTON (US)                              |                                 |  |                       | not supplied   |  |
|      |                                 | *  | 3-917-354-21 | INDIVIDUAL CARTON (Canadian, AEP)                   |                                 |  |                       | not supplied   |  |
|      |                                 |  |              |   | 3-917-356-01                    | SUCKER                                   |                       |  |  |

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

**• MAIN BOARD MODIFICATIONS**

**(1) EXPLODED VIEWS**

| Page | Former Type |          |              |                      | New Type |          |              |                                  |
|------|-------------|----------|--------------|----------------------|----------|----------|--------------|----------------------------------|
|      | Ref. No.    | Part No. | Description  | Remark               | Ref. No. | Part No. | Description  | Remark                           |
| 11   | *           | 4        | A-3679-645-A | MAIN BOARD, COMPLETE | *        | 4        | A-3679-645-A | MAIN BOARD, COMPLETE (EXCEPT US) |
|      |             |          |              |                      | *        | 4        | A-3683-146-A | MAIN BOARD, COMPLETE (US)        |

**(2) ELECTRICAL PARTS LIST**

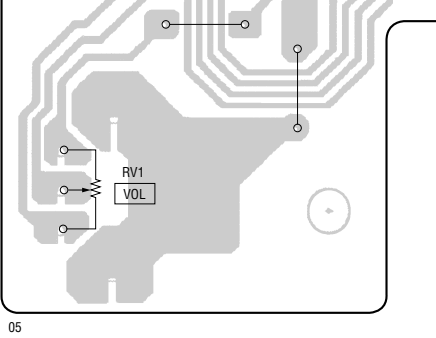
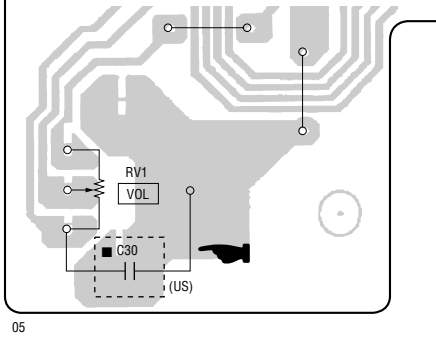
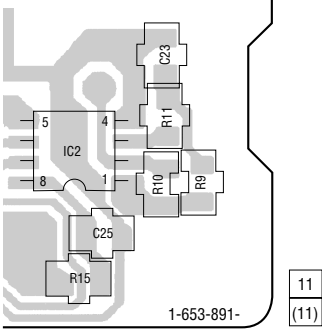
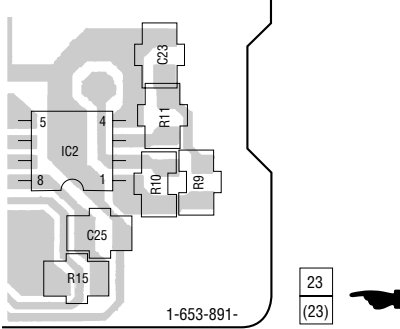
| Page | Former Type |          |              |                         | New Type |          |              |                                     |                    |  |
|------|-------------|----------|--------------|-------------------------|----------|----------|--------------|-------------------------------------|--------------------|--|
|      | Ref. No.    | Part No. | Description  | Remark                  | Ref. No. | Part No. | Description  | Remark                              |                    |  |
| 12   | *           |          | A-3679-645-A | MAIN BOARD, COMPLETE    | *        |          | A-3679-645-A | MAIN BOARD, COMPLETE (EXCEPT US)    |                    |  |
|      |             |          |              |                         | *        |          | A-3683-146-A | MAIN BOARD, COMPLETE (US)           |                    |  |
|      |             |          | *****        |                         |          |          |              |                                     | *****              |  |
|      |             |          |              |                         |          | C30      | 1-162-282-31 | CERAMIC                             | 100PF 10% 50V (US) |  |
|      |             | D2       | 8-719-812-41 | LED TLR124 (TUNE)       |          | D2       | 8-719-057-27 | LED L-132XHD (TUNE)                 |                    |  |
|      |             | R16      | 1-216-073-00 | METAL CHIP 10K 5% 1/10W |          | R16      | 1-216-059-00 | METAL CHIP 2.7K 5% 1/10W (US)       |                    |  |
|      |             |          |              |                         |          | R16      | 1-216-073-00 | METAL CHIP 10K 5% 1/10W (EXCEPT US) |                    |  |

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# ICF-S70

## • PRINTED WIRING BOARD

☞ : Changed portion

| Page | Former Type   | New Type   |
|------|---|--|
| 7    | <p>Location F-G, 1-3</p>     | <p>Location F-G, 1-3</p>     |
| 8    | <p>Location D-F, 11-13</p>  | <p>Location D-F, 11-13</p>  |

• ■ : parts mounted on the conductor side.

• SCHEMATIC DIAGRAM

👉 : Changed portion.

