

ICF-PRO70/PRO80

SERVICE MANUAL



Photo: ICF-PRO70

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
 ICF-PRO80
AEP Model
E Model
 ICF-PRO70

SPECIFICATIONS

Circuit system	LW/MW/SW/VHF: Dual conversion superheterodyne FM: Superheterodyne		DCC-127A or DCC-120 car battery cord (optional) for use with 12 V car battery DCC-240 car battery cord (optional) for use with 24 V car battery EBP-6 battery case (optional) using four size C (R14) batteries
Frequency coverage	ICF-PRO70 (Excluding VHF converter, FRQ-80) AUS, E (Middle East except Saudi Arabia): 150 kHz – 108 MHz AEP (Norway, Finland, Denmark and others except FRG): 150 – 29,995 kHz and 87.6 – 108 MHz E (Saudi Arabia): 150 – 285 kHz, 531 – 26,100 kHz and 87.6 – 108 MHz ICF-PRO80 (Including VHF converter, FRQ-80) US, Canadian, UK, AEP (France, Spain, Sweden), E (Outside Middle East including Saudi Arabia): 150 kHz – 108 MHz (without using the FRQ-80 frequency converter) 115.15 – 223 MHz (using the FRQ-80)	Battery life Approx. 10 hours using Sony SUM-3(NS) batteries	
		Dimensions Approx. 90 × 182 × 50 mm (w/h/d) (3 ⁵ / ₈ × 7 ¹ / ₄ × 2 inches) including projecting parts and controls, not including the telescopic antenna	
		Weight Approx. 650 g (1 lb 7 oz) including batteries, shoulder strap and telescopic antenna	
Antennas	SW/VHF/FM: Telescopic antenna LW/MW: Built-in ferrite bar antenna External antenna connector: TNC connector	FRQ-80 frequency converter (supplied with the ICF-PRO80 only) Shift frequency 115 MHz Attenuator 0 dB/–30 dB Power requirements 3 V DC, two size AA (R6) batteries Battery life Approx. 80 hours using Sony SUM-3(NS) batteries Dimensions Approx. 40 × 98 × 31 mm (w/h/d) (1 ⁵ / ₈ × 3 ⁷ / ₈ × 1 ¹ / ₄ inches) including projecting parts and controls	
Speaker	7 × 3.5 cm	Weight Approx. 120 g (4.2 oz) including batteries	
Power output	400 mW (at 10% harmonic distortion)		
Output jack	Earphone jack (minijack) (1) 8 ohm Recording output jack (minijack) (1) Output level 0.775 mV (–60 dB) Output impedance 1 kilohm		
Power requirements	6 V DC (for radio/computer backup) Four size AA (R6) batteries or BP-23 rechargeable battery pack (optional) DC IN 6 V jack accepts: AC-D4 AC power adaptor (optional) for use on 100, 120, 220 or 240 V AC depending on the model type of the AC-D4 available in your country		

Design and specifications subject to change without notice.

PLL SYNTHESIZED RECEIVER
SONY®



FEATURES

WORLD-WIDE FREQUENCY COVERAGE

No band selector is provided.

The entire frequency range is tuned in consecutively. The detection mode is set automatically according to the frequency range to which the tuned frequency belongs.

Selectable detection modes

The entire frequency coverage is divided into 2 to 4 ranges depending on the model type, and the detection modes, FM, NARROW FM, AM WIDE, AM NARROW and SSB* can be selected for each range.

Frequency converter supplied for wider coverage (ICF-PRO80 only)

By attaching the supplied FRQ-80 frequency converter, 115.15-223 MHz can also be received.

VERSATILE TUNING MODES

Direct tuning by inputting a frequency to be tuned in	• When you know the frequency of the station
Memory tuning by simply pressing one button to tune in the stored station	• For daily listening to your favorite station
Manual tuning by scanning frequencies step by step at a determined interval	• When you do not know the frequency of the station • To tune in precisely a station located by scan tuning or limited scan tuning precisely
Scan tuning by automatically scanning the entire frequency coverage	• When you do not know the frequency of the station
Limited scan tuning by automatically scanning the frequency coverage you have defined	• When you know the frequency range in which the desired station is located (e.g. FM or MW radio broadcasting range, an SW meter band).
Memory scan tuning by automatically scanning the stored (up to 10) stations	• To choose a station from among those stored in a certain memory page
Program memory scan tuning by automatically scanning only the stations you have programmed among all stored in memory (up to 40 stations) in the order programmed	• To choose a station from among those having the specified conditions (e.g. FM broadcasting stations)
Priority tuning by tuning in the specified station every 3 seconds	• To catch a radio communication when you are not sure when it will take place.

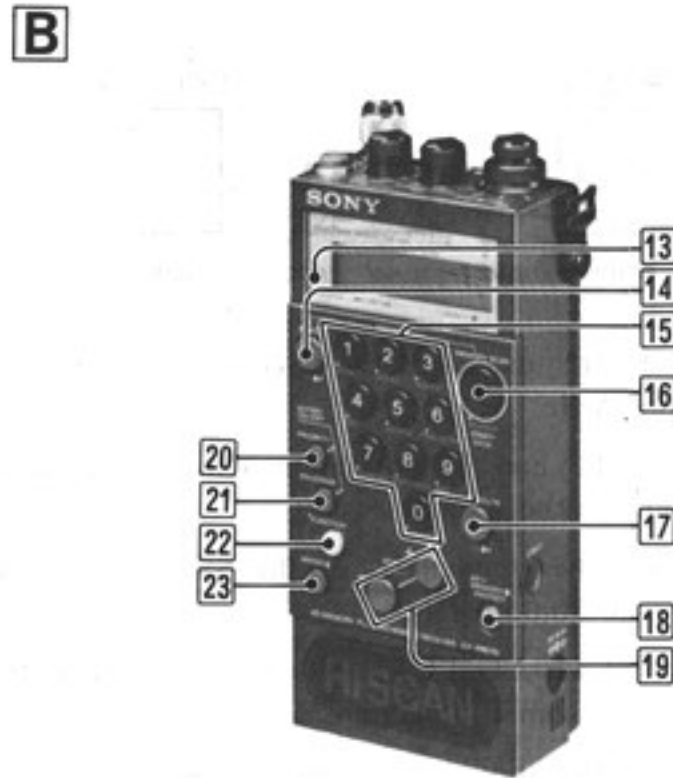
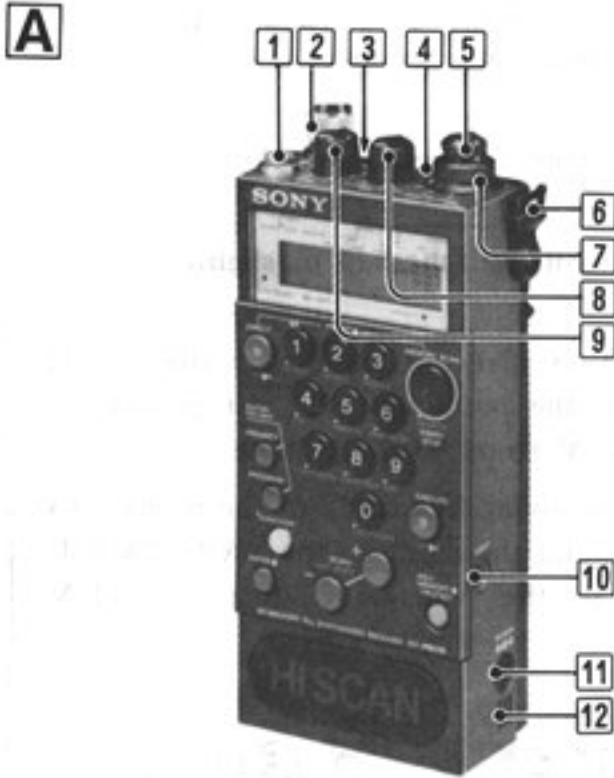
CONVENIENT FUNCTIONS

Memory of up to 40 stations	Up to 40 stations can be stored on 4 memory pages (10 stations for each page) and tuned in instantly.
Three scan modes selectable	Scanning can be stopped at the first-located station, or be resumed after each station located has been received for several seconds or until the signal of the station stops.
Memory search	The frequencies of the stations stored on one page are displayed in sequence while your desired station is kept tuned in.
Program memory search	The frequencies of the stations programmed are displayed in sequence while your desired station is kept tuned in.
Memory protection	The memory of one page (10 stations stored) is locked so that it cannot be changed inadvertently.
Key protection	The buttons on the front panel are locked so that they cannot be operated by accident.
Squelch control	The receivable signal level can be adjusted so that scanning stops at stations with stronger signals only and noise is suppressed while tuning and while no station signal is present.
Fine tuning	AM (LW, MW and SW) and SSB stations can be tuned in precisely.

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LOCATION AND FUNCTION OF CONTROLS



Front (Photos A and B)

- 1 POWER switch**
- 2 Antenna connector (TNC type)**
- 3 (earphone) jack (mini-jack)**
Connect an earphone or an external speaker.
- 4 (recording output) jack (mini-jack)**
- 5 FINE/SSB control**
Used for AM and SSB fine tuning.
FINE: When AM WIDE or AM NARROW detection mode is selected, press **FUNCTION** + **6** so that the "FINE" indicator appears and fine tune with this control.
SSB: When SSB detection mode is selected, fine tune with this control.
- 6 Loop for shoulder strap**
- 7 PAGE selector**
Select memory page, 1 to 4.
- 8 SQL (squelch) control**
Adjust the squelch level.
▲ **AUTO (depressed):** The signal (and noise) with a lower level than the factory-preset level is cut.
▢ **MANUAL (released):** Adjust manually the level of the signal you want to receive.
- 9 VOLUME/TONE control**
Functions as a volume control and a tone control.
VOLUME: Turn to adjust the volume.
TONE: Depress (▲ LOW) to emphasize bass, and press to release (▢ HIGH) to emphasize treble.
The volume can be adjusted in either the depressed or released position.
- 10 LIGHT button**
Press to illuminate the display window for approximately 10 seconds. If any button on the front panel is pressed, the illumination will remain for 10 seconds more.

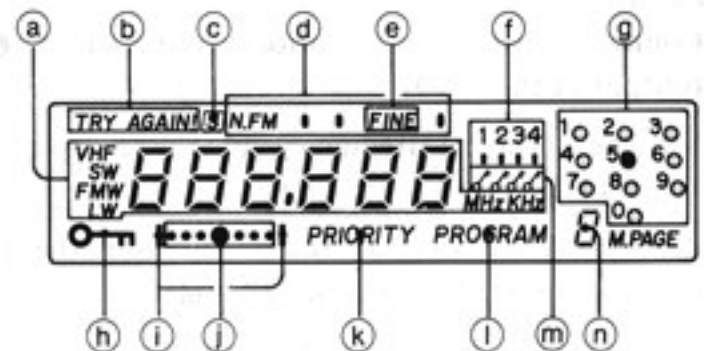
- 11 DC IN 6 V (external power input) jack**
Connect the optional AC power adaptor or car battery cord.
- 12 Battery case (rear)**
- 13 RECEIVE indicator**
Lights red when a signal or noise is received.
- 14 DIRECT button**
Press to start direct tuning.
This button is also used in combination with **FUNCTION** or **ENTER**.
- 15 Number buttons**
Press to recall the stored station (memory tuning).
Press to input the frequency of a station for direct tuning.
These buttons are also used in combination with **FUNCTION**, **ENTER**, **PROGRAM** or **PRIORITY**.
- 16 MEMORY SCAN button**
Press to start memory scan tuning (with PROGRAM OFF) and program memory scan tuning (with PROGRAM ON).
This button is also used in combination with **FUNCTION**.
- 17 EXECUTE button**
Press this button to tune in the frequency for direct tuning.
This button is also used in combination with **FUNCTION** or **ENTER**.
- 18 KEY/MEMORY PROTECT button**
Press to activate the key protection function (i.e. the ↔ indicator appears). The buttons on the front panel are locked and no longer function. Press again to deactivate the key protection function.
This button is also used in combination with **ENTER**.
- 19 SCAN +/- buttons**
Used for manual tuning.
This button is also used to start scan tuning and limited scan tuning.

- 20 PRIORITY button**
Press to activate priority tuning (i.e. **PRIORITY** indicator appears). Press again to deactivate it.
- 21 PROGRAM button**
Press to activate program memory scan tuning and program memory search (i.e. **PROGRAM** indicator appears). Press again to deactivate it.
- 22 FUNCTION button**
When a button with a yellow dot is pressed with this button, the function of the button changes to that indicated on the panel together with the yellow dot.

Buttons to be pressed	Function
FUNCTION + ① (SCAN 1) + ② (SCAN 2) + ③ (SCAN 3)	To select the scan mode for scan, limited scan, memory scan and program memory scan tuning.
+ ④ (FM) + ⑤ (AM WIDE) FUNCTION + ⑦ (NARROW FM)* + ⑧ (AM NARROW) + ⑨ (SSB)	To select the detection mode.
FUNCTION + ⑥ (FINE ON/OFF)	Press to activate AM fine tuning (i.e. FINE indicator appears). Press again to deactivate it.
FUNCTION + (LIMIT ON/OFF)	Press to activate limited scan tuning (i.e. the limited scan indicator appears). Press again to deactivate it.
FUNCTION + DIRECT (L1) + EXECUTE (L2)	To display the preset limit frequency.
FUNCTION + MEMORY SCAN (SEARCH)	To activate the memory search function (with PROGRAM OFF) or program memory search function (with PROGRAM ON).

* NARROW FM is not provided with the ICF-PRO70 type 3 model.

C



ENTER button

When a button with a white dot is pressed with this button, the function of the button changes to that indicated on the panel in white.

Buttons to be pressed	Function
ENTER + ① - ⑩ (PRESET)	To store the station being tuned in on the number buttons
ENTER + DIRECT (L1) EXECUTE (L2)	To store the limit frequency.
ENTER + KEY/MEMORY PROTECT (MEMORY PROTECT)	Press to activate the memory protection function (i.e. ⚡ indicator appears below the PAGE selector setting indicator). Press again to deactivate it.

Display window (illustration C)

- Ⓐ Frequency being received
 - Ⓑ TRY AGAIN indicator
 - Ⓒ S (frequency shift) indicator (ICF-PRO80 only)
 - Ⓓ Detection mode indicator
 - Ⓔ FINE (fine tuning) indicator
 - Ⓕ PAGE selector setting indicator
 - Ⓖ Memory station indicator
- The dot lights to show that the station stored on the corresponding number button is being received.
- Ⓗ Key protection indicator
 - Ⓘ Limited scan indicator
 - Ⓢ Scan mode indicator
 - Ⓚ PRIORITY indicator
 - Ⓛ PROGRAM indicator
 - Ⓜ Memory protection indicator
 - Ⓝ Memory page indicator

SECTION 1
ELECTRICAL ADJUSTMENTS

Note: Standard power-supply voltage is 6 VDC unless other wise noted.

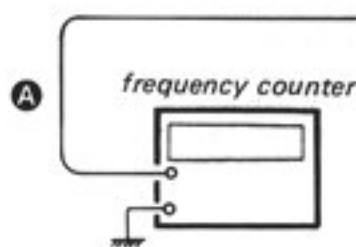
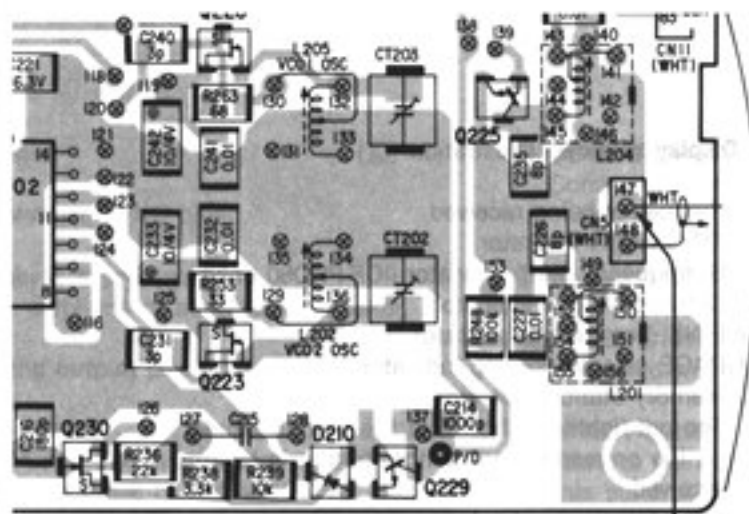
Be sure to perform the "VCO1 PD-Voltage Adjustment" and "VCO2 PD-Voltage Adjustment" when the "FM-L Tracking Adjustment" and "FM-H Tracking Adjustment" are performed respectively.

Reference-Frequency Oscillator (7.2 MHz) Adjustment

Procedure:

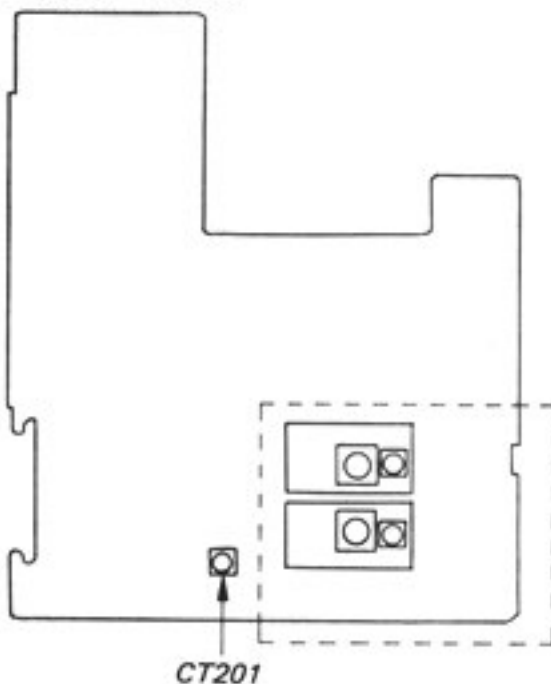
1. Connect a frequency counter to the point **A** (output of the VCO).
2. Set the receiving frequency of the receiver to 108.00 MHz.
3. Adjust CT201 so that the reading on the frequency counter becomes in 118.7 MHz \pm 100 Hz.

PLL board - IC side -



Adjustment Location:

PLL board - IC side -



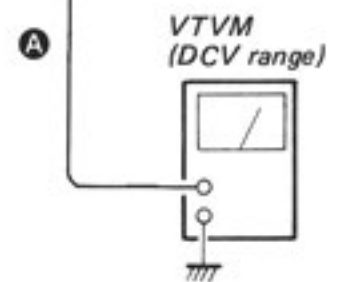
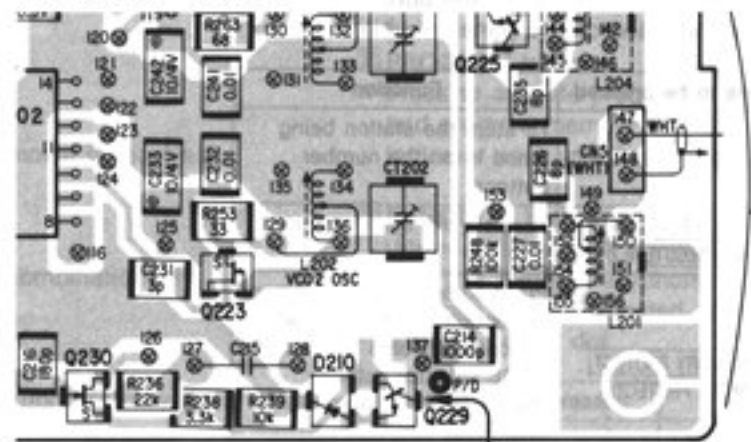
VCO1 PD-Voltage Adjustment

Note: Be sure to perform the "FM-L Tracking Adjustment" when this adjustment is performed.

Procedure:

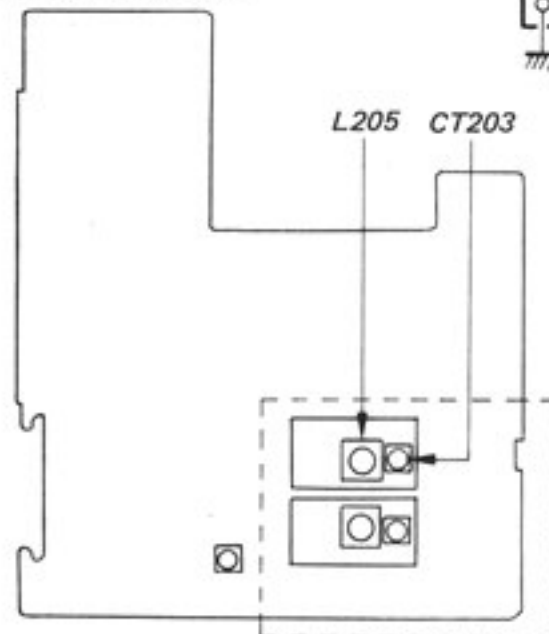
1. Set the receiving frequency of the receiver to 150 kHz.
2. Set CT203 to a slightly meshed position.
3. Adjust L205 so that the reading on the VTVM connected to the point **A** (PD test point) becomes in 1.35 V \pm 0.05 VDC.
4. Set the receiving frequency of the receiver to 75.95 MHz, and the mode to the WIDE FM. Confirm that the reading on the VTVM is 14.0 V \pm 1 VDC.

PLL board - IC side -



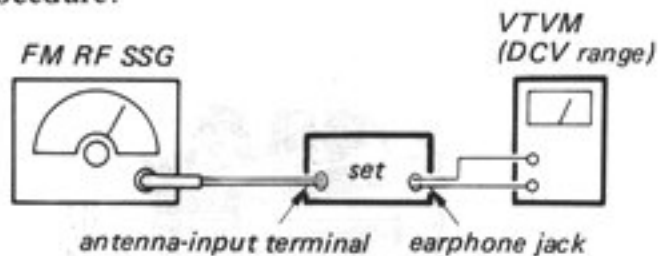
Adjustment Location:

PLL board - IC side -



FM-L Tracking Adjustment

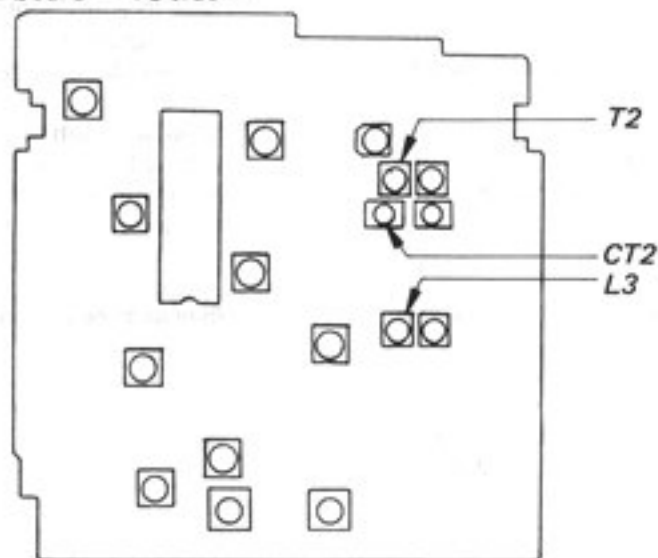
Procedure:



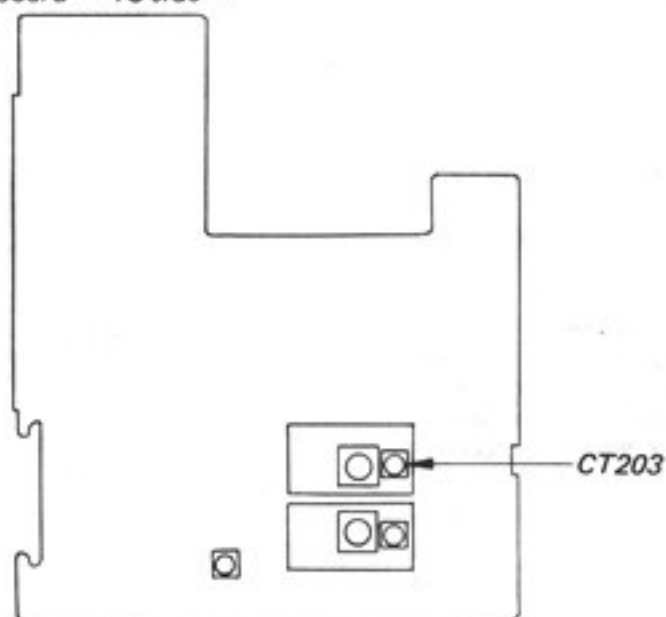
1. Set the frequencies of the SSG and the receiver to 55.000 MHz.
2. Adjust L3 and T2 to obtain a maximum signal output on the VTVM.
3. Change the frequencies of the SSG and the receiver to 70.000 MHz.
4. Adjust CT203 and CT2 so that the reading on the VTVM becomes in maximum.
5. Repeat the above steps 1 through 4 several times until no further improvements is obtained.
6. Perform and confirm the prior step "VCO1 PD-Voltage Adjustment".

Adjustment Location:

main board - IC side -



PLL board - IC side -



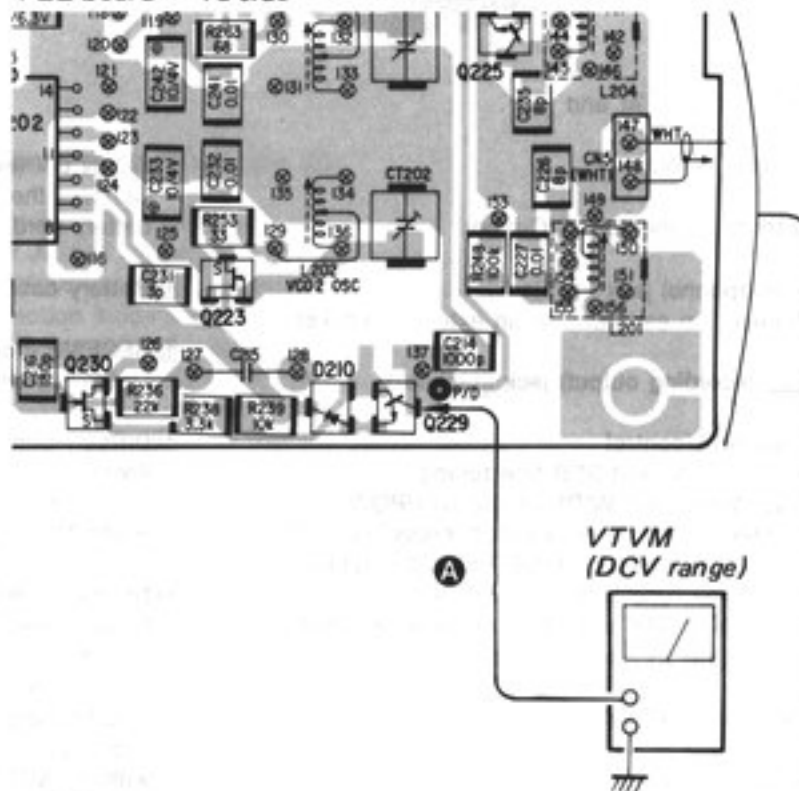
VCO2 PD-Voltage Adjustment

Note: Be sure to perform the "FM-H Tracking Adjustment" when this adjustment is performed.

Procedure:

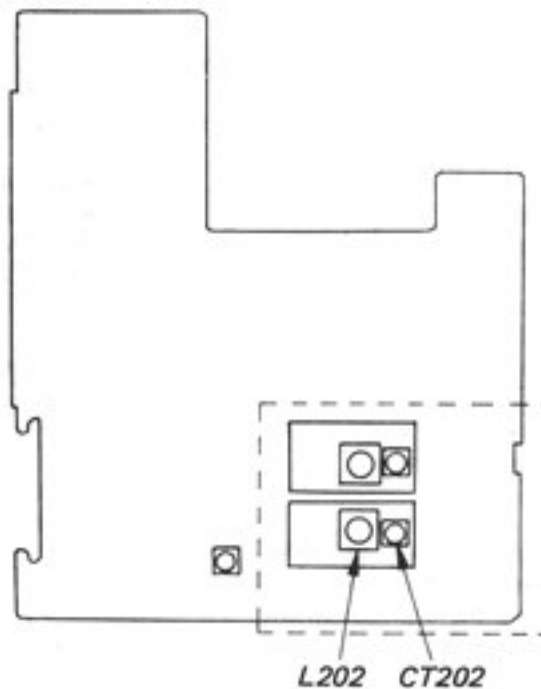
1. Set the receiving frequency of the receiver to 30.000 MHz.
2. Set CT202 to its half-meshed or slightly-meshed position.
3. Adjust L202 so that the reading on the VTVM connected to the point A (PD test point) becomes in 1.35 V \pm 0.05 VDC.
4. Change the receiving frequency of the receiver to 75.995 MHz, and the mode to the NARROW FM. Confirm that the voltage reading is 14.0 V \pm 1.0 VDC.

PLL board - IC side -



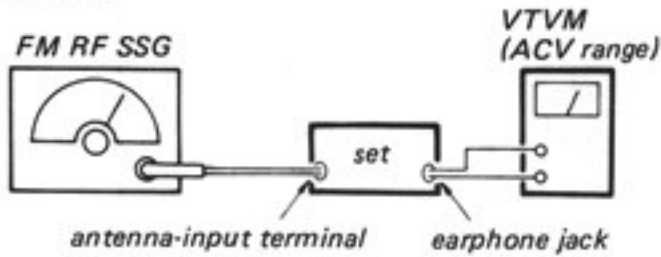
Adjustment Location:

PLL board - IC side -



FM-H Tracking Adjustment

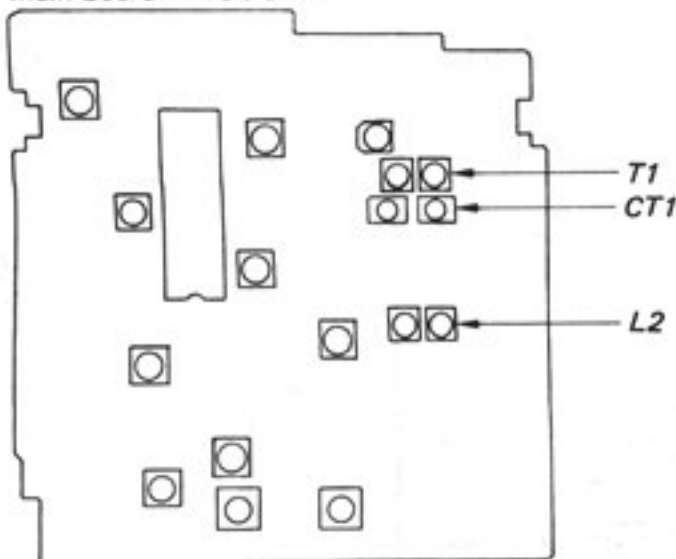
Procedure:



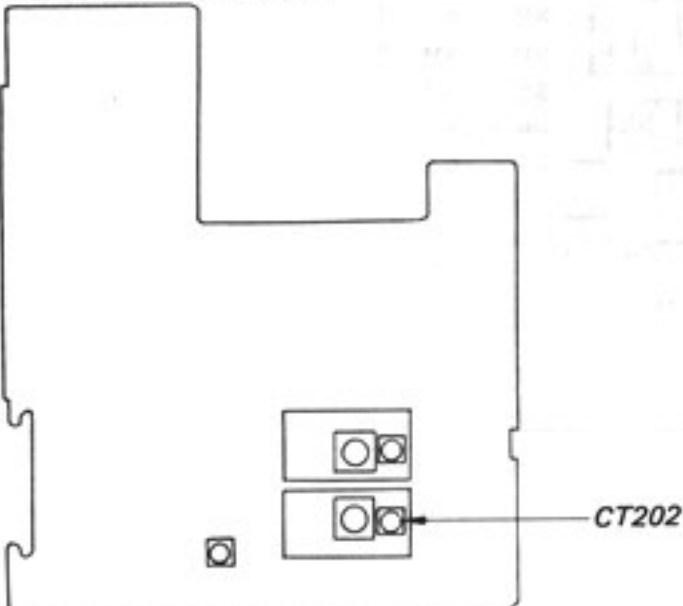
1. Set the receiving frequency of the receiver to 80.000 MHz.
2. Adjust L2 and T1 to obtain a maximum signal-output on the VTVM.
3. Change the receiving frequency of the receiver to 105.00 MHz.
4. Adjust CT202 and CT1 to obtain a maximum signal-output level.
5. Repeat the above steps 1 through 4 until no further improvements is obtained.
6. Perform and confirm the prior step "VCO2 PD-Voltage Adjustment".

Adjustment Location:

main board – IC side –

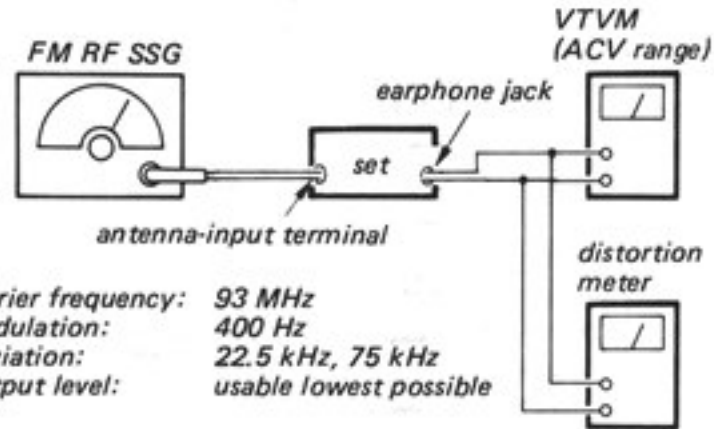


PLL board – IC side –



FM IF Adjustment

Procedure:

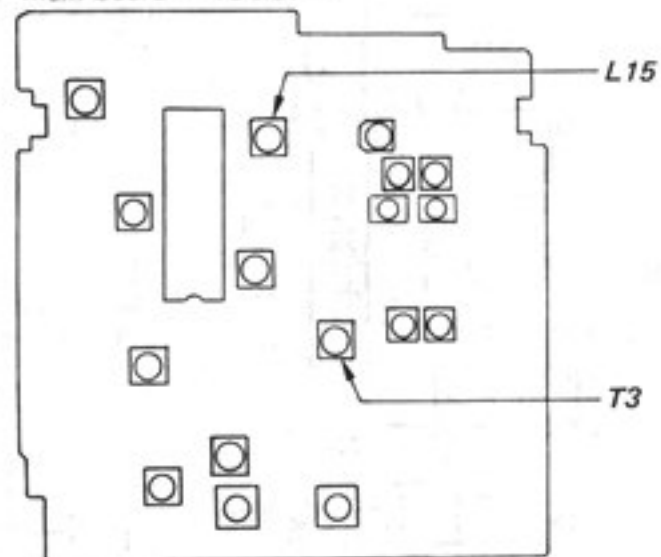


Carrier frequency: 93 MHz
 Modulation: 400 Hz
 Deviation: 22.5 kHz, 75 kHz
 Output level: usable lowest possible

1. Set the frequencies of the SSG and the receiver to 93.000 MHz.
2. Set the deviation of the SSG to 22.5 kHz.
3. Adjust T3 to obtain a maximum signal-output level on the VTVM.
4. Set the output attenuator of the SSG to 60 dB and the deviation to 75 kHz.
5. Adjust L15 to obtain a minimum distortion of the output signal.

Adjustment Location:

main board – IC side –

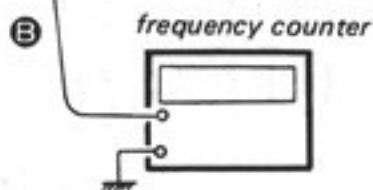
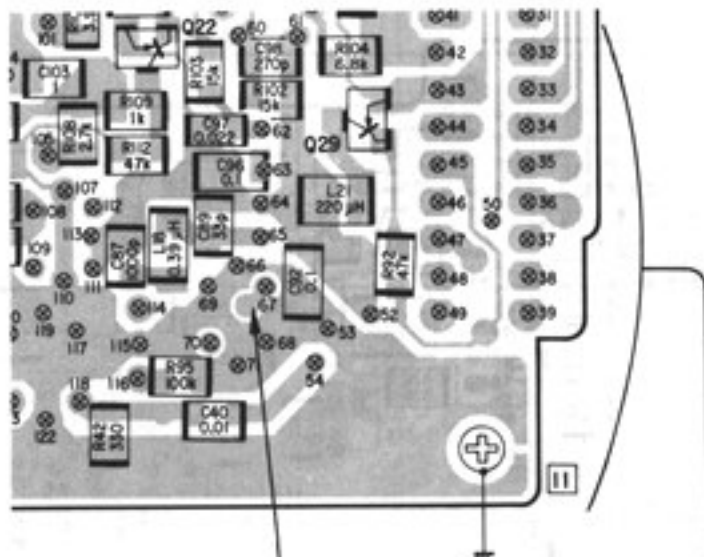


Second Local Oscillator Adjustment

Procedure:

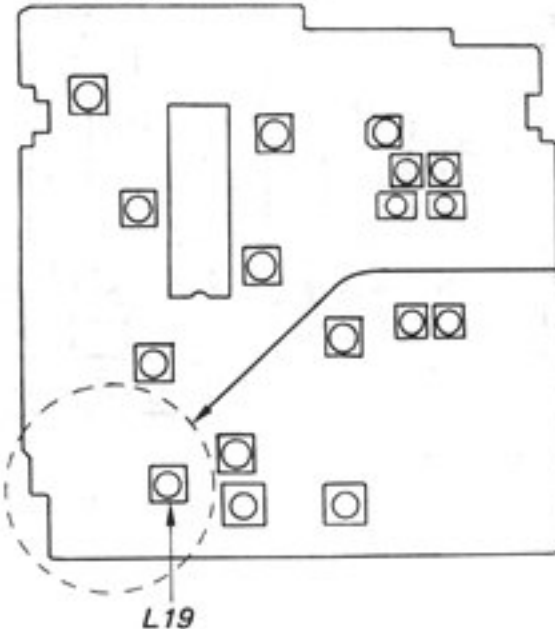
1. Set the receiving frequency of the receiver to 75.995 MHz, and the receiving mode to the NARROW FM and turn the FINE switch off.
2. Connect a high-input impedance frequency counter to the point **E**.
3. Adjust L19 so that the reading on the frequency counter becomes in 55.390 MHz \pm 100 Hz.
4. Turn the FINE switch on and adjust the FINE control to both FINE MIN and FINE MAX ends. The frequency readings at both ends should be \pm 3.5 to \pm 4.5 kHz when referred to that obtained in the step 3 above.

main board – grounding-pattern side –



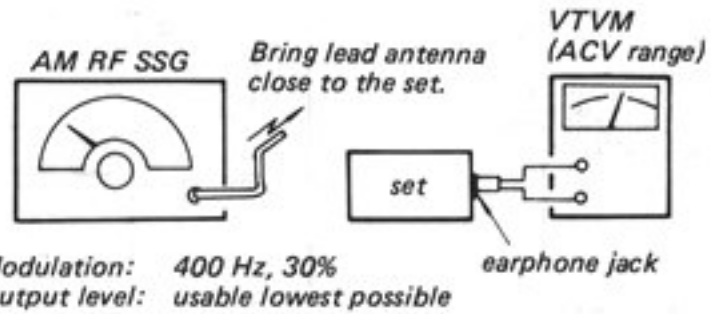
Adjustment Location:

main board – IC side –



AM 1st and 2nd IF Adjustment

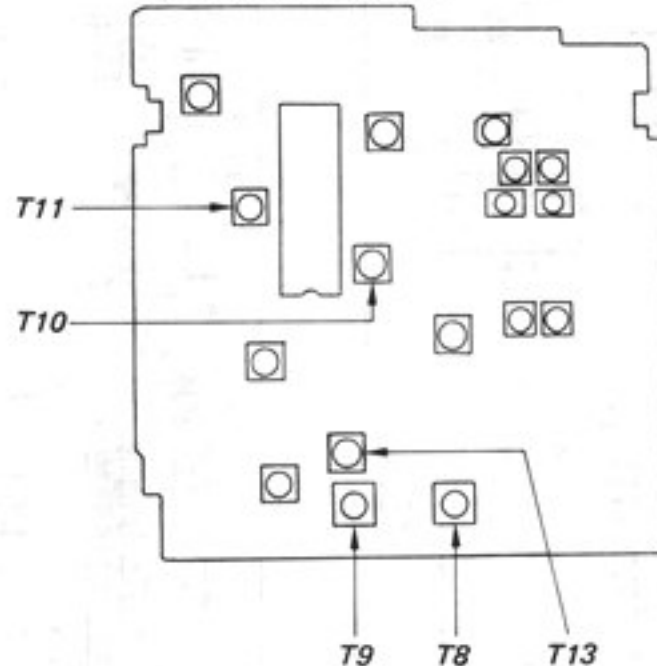
Procedure:



1. AM 1st IF Adjustment:
 - a) Set the frequencies of the SSG and the receiver to 11,800 kHz, and set the mode of the receiver to the AM NARROW.
 - b) Adjust T8 and T9 to obtain a maximum output level.
2. AM 2nd IF Adjustment:
 - a) Set the frequencies of the SSG and the receiver to 11,800 kHz, and set the mode of the receiver to the AM NARROW.
 - b) Adjust T10 (455 kHz), T11 (AM detector) and T13 (2nd mixer) to obtain a maximum output signal level.

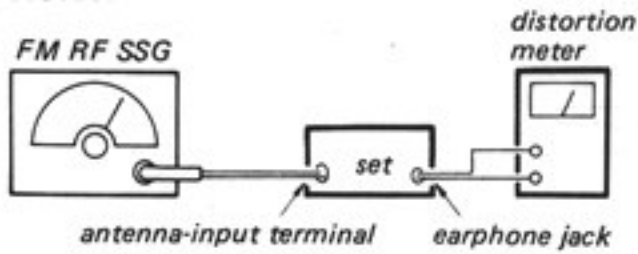
Adjustment Location:

main board – IC side –



NARROW-FM Detector Adjustment

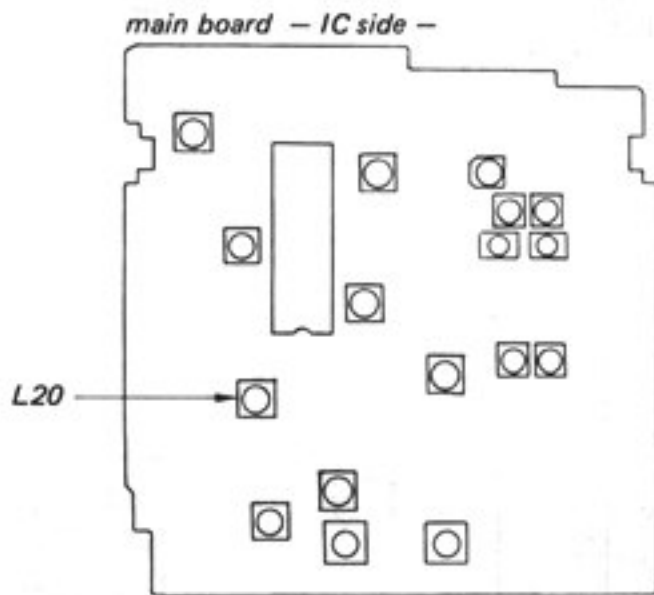
Procedure:



Modulation: 400 Hz
 Deviation: 3.5 kHz
 Output level: 60 dB

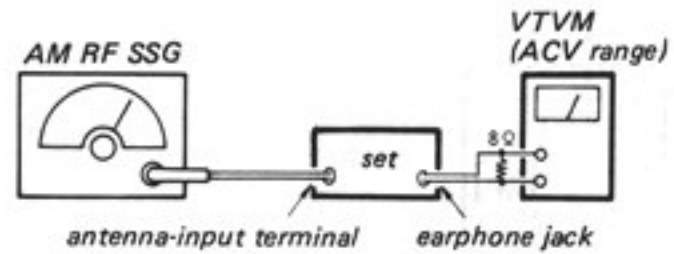
1. Set the frequencies of the SSG and the receiver to 11,800 kHz and the mode of the receiver to the FM NARROW.
2. Adjust L20 to obtain a minimum distortion of about 1% of the output signal.

Adjustment Location:



AM AGC Adjustment

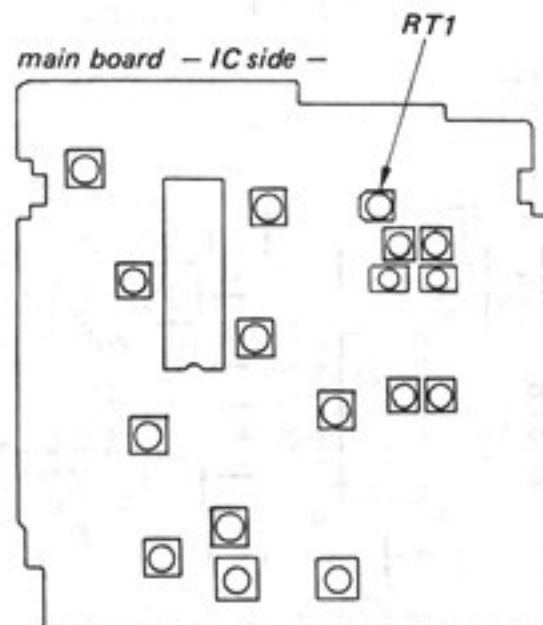
Procedure:



Frequency: 11,800 kHz
 Modulation: no modulation
 Output level: 44 dB μ

1. Set the frequencies of the SSG and the receiver to 11,800 kHz, and the mode of the receiver to the AM NARROW.
2. Adjust the VOLUME control to obtain an output level of approximately 50 mW (0.64 V) across the 8-ohm load.
3. Turn RT1 clockwise in more than one turn and obtain the point where the noise-output level is maximum and the signal-to-noise ratio is approximately 20 dB. This point is the slotted open area of RT1 and the resistance is infinite.
4. Turn RT1 counterclockwise from the point obtained in step 3 above and obtain a point where the noise-output level is minimum, and where the signal-to-noise ratio is approximately some 40 to 50 dB.
5. Further slightly turn RT1 counterclockwise from the minimum-noise point obtained in step 4 above, and set RT1 at the point where the noise level increases in 1 to 2 dB.

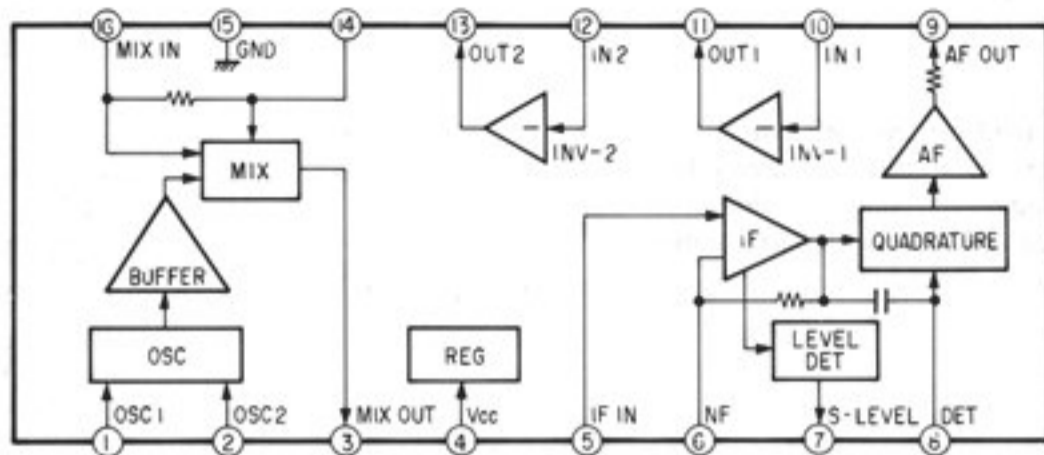
Adjustment Location:



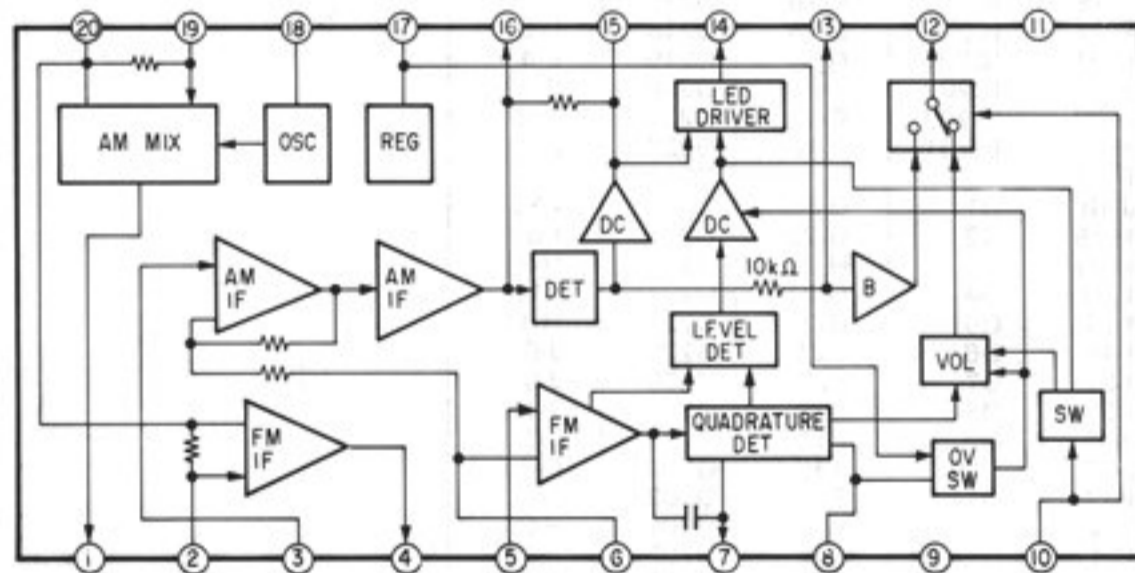
SECTION 2
DIAGRAMS

• IC BLOCK DIAGRAMS

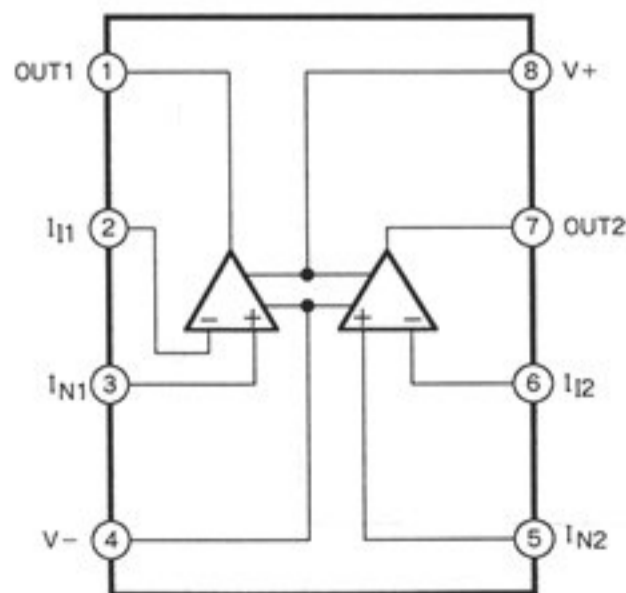
IC1 TA7761F



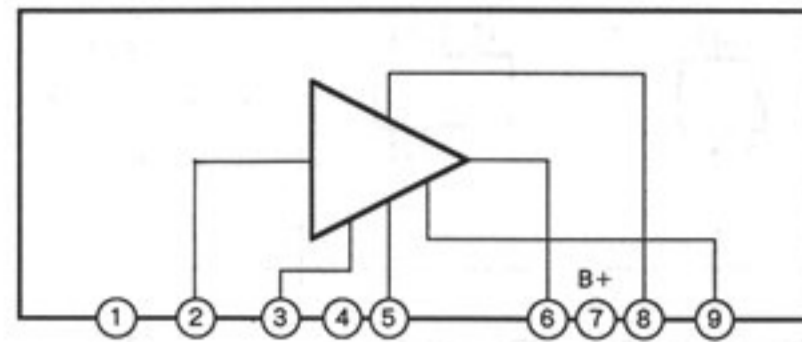
IC2 TA7758P



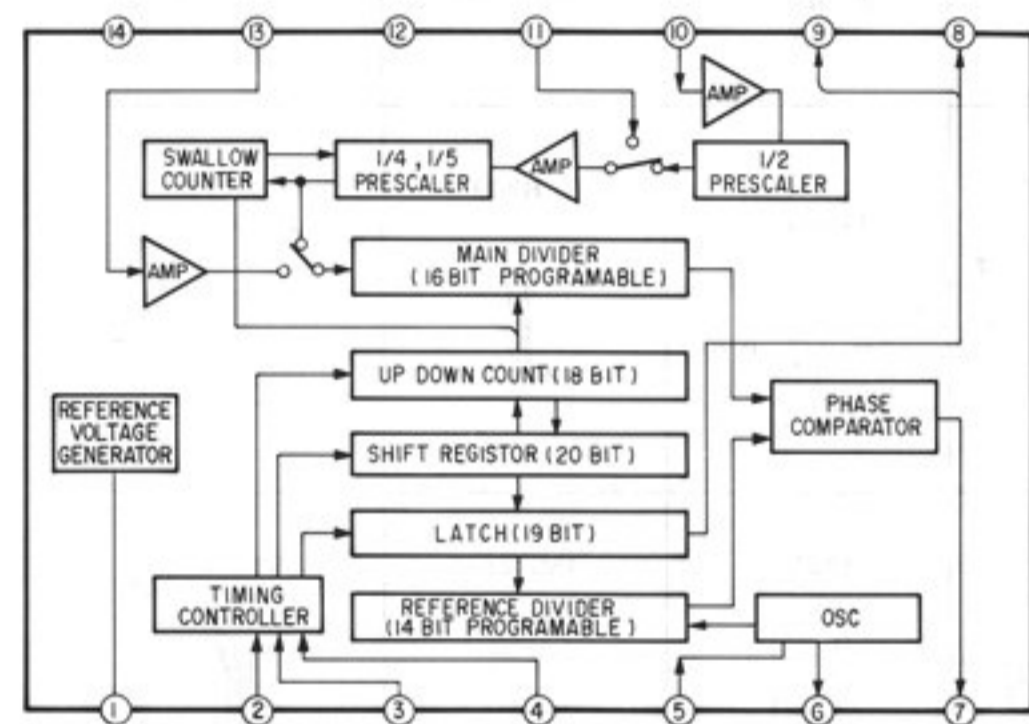
IC3 μPC358G2



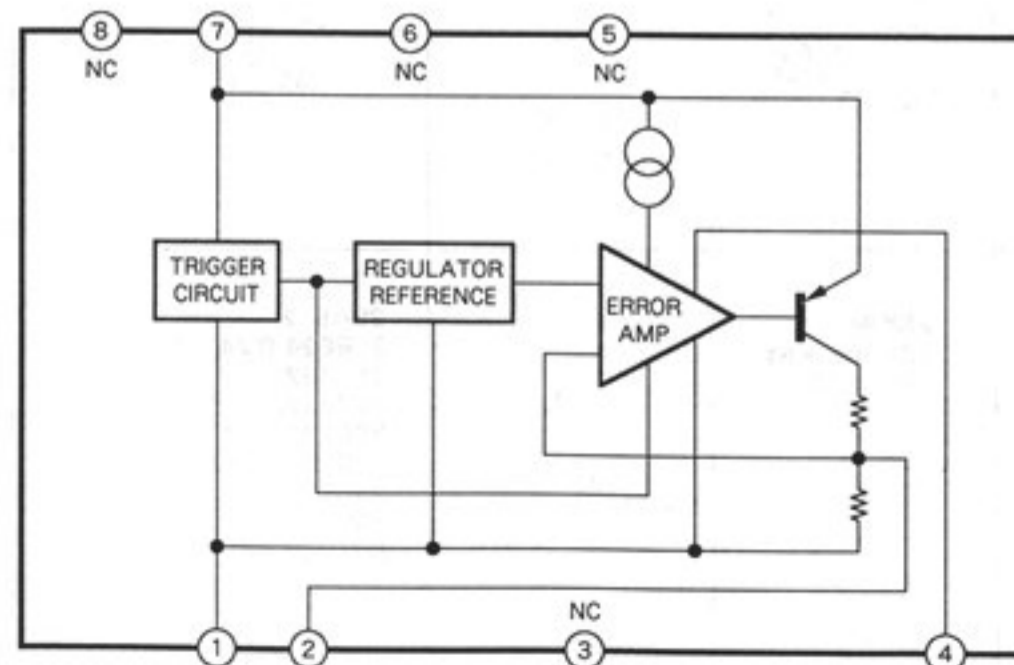
IC201 LA4145



IC202 CXD1118M



IC203 LA5003M



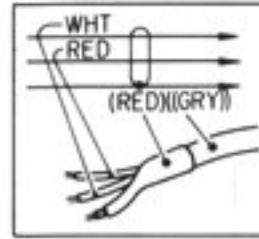
• See pages 20 to 22 for Control Section Mounting Diagram.

• Semiconductor Lead Layouts

<p>TA7761F</p>	<p>LA5003M μPC358G2</p>	<p>CXD1118M TC4016BF</p>	<p>TA7758P</p>
<p>LA4145</p>	<p>μPD7508G-779-00</p>	<p>μPD7514G-145-12</p>	<p>μPC1651G</p>
<p>GL1PR51</p>	<p>TLG123A TLR124</p>	<p>TLR209</p>	<p>1SS279</p>
<p>1S2837 HSM2693</p>	<p>1T33</p>	<p>1SS123</p>	<p>SVC203</p>
<p>1SS193 RD16M-B SB01-05CP</p>	<p>1S2835</p>	<p>ND487C1-3R</p>	<p>2SK360D</p>
<p>2SK210GR</p>	<p>2SK94 2SK508-K51 2SK613-3</p>	<p>FMW1</p>	<p>2SA812 2SB624-BV4 2SC1623 2SC2223 2SC2813-Q4 2SC3624A-L16 2SD596 2SD1048 DTC124XK</p>

Note:

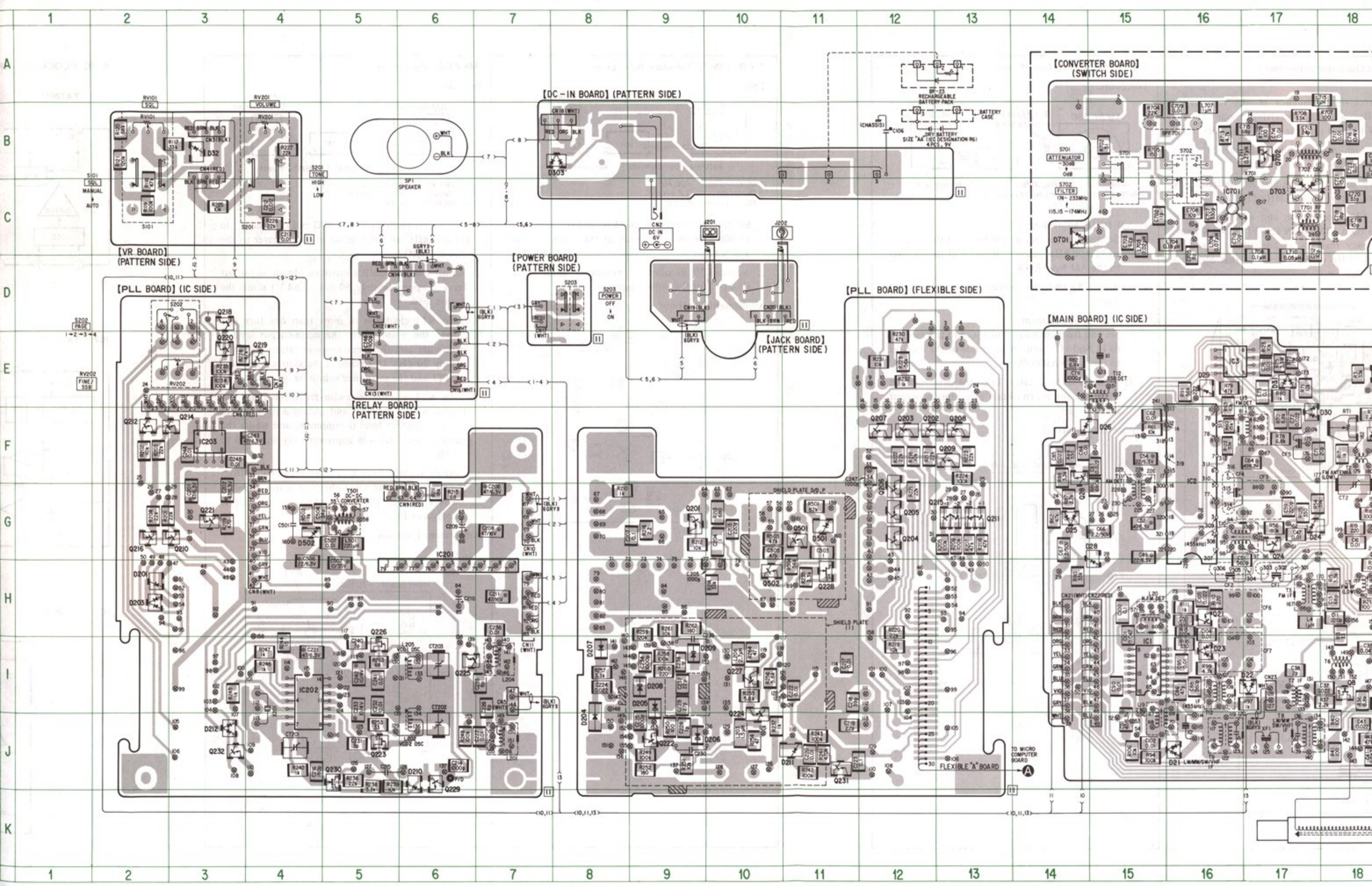
- Color code or sleeving over the end of the jacket.



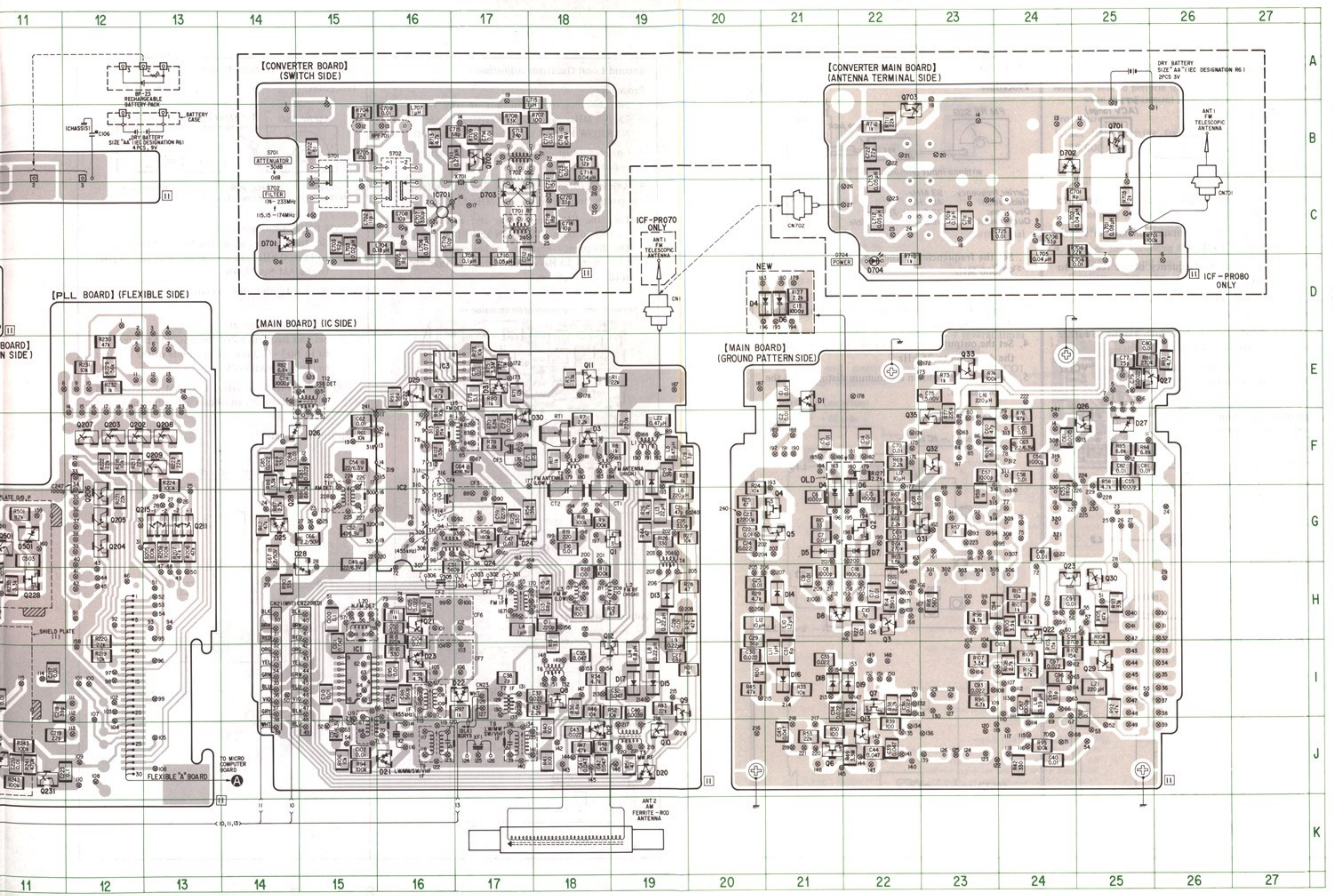
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- □ : indicates side identified with part number.
- ⊗ : Through hole.

• SEMICONDUCTOR LOCATION

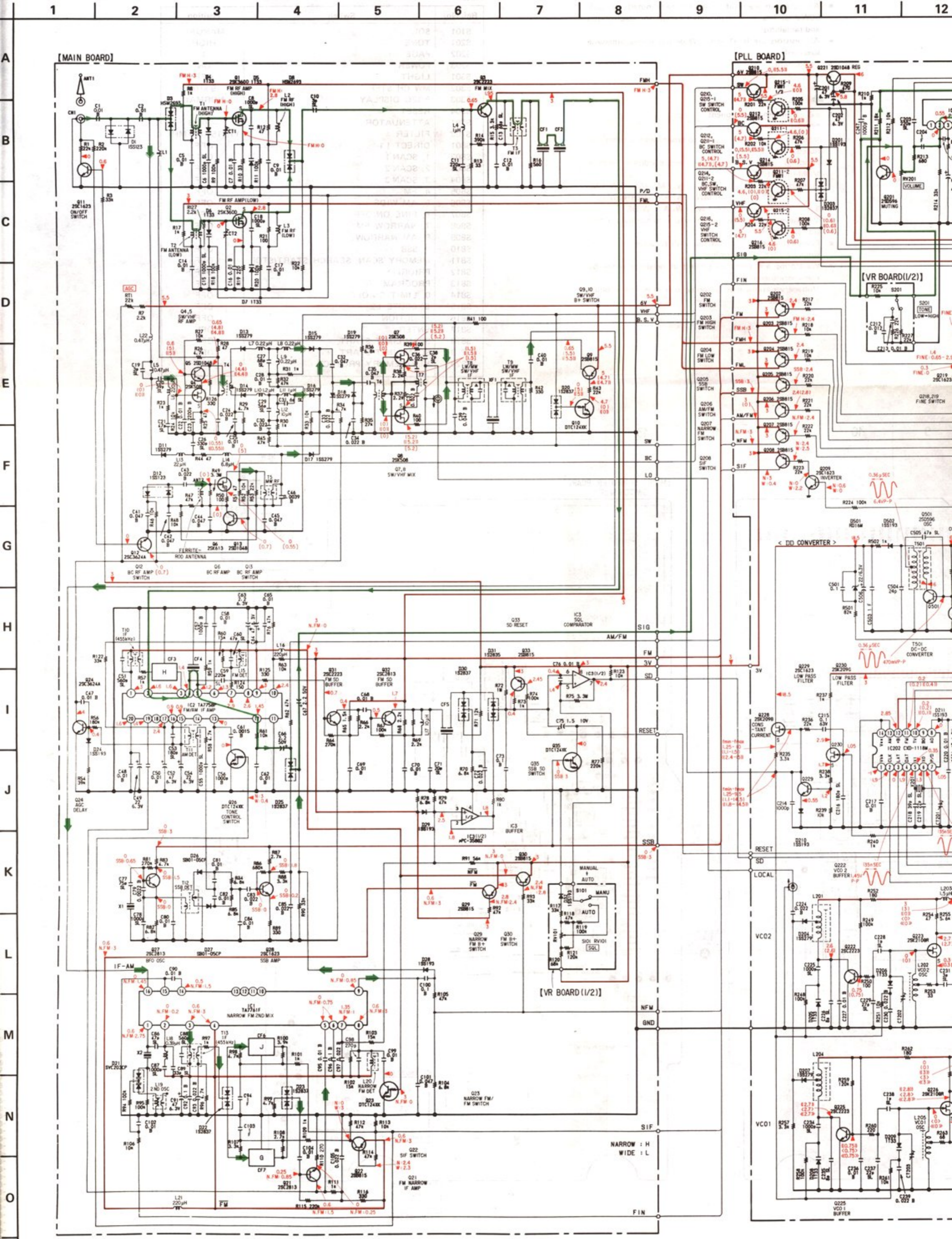
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	E-21	IC1	I-15	Q215	G-13
D3	F-18	IC2	F-16	Q216	G-2
D4	F-21	IC3	E-16	Q218	D-3
D5	G-21	IC201	G-6	Q219	E-4
D6	F-22	IC202	I-4	Q220	E-3
D7	G-22	IC203	F-3	Q221	G-3
D8	H-21	IC701	C-16	Q222	J-9
D11	F-19			Q223	J-5
D12	J-18	Q1	G-19	Q224	I-10
D13	H-19	Q2	G-22	Q225	I-6
D14	H-21	Q3	H-22	Q226	H-5
D15	I-19	Q4	G-21	Q227	I-10
D16	I-21	Q5	G-21	Q228	H-11
D17	I-19	Q6	J-21	Q229	J-6
D18	I-21	Q7	I-22	Q230	J-5
D19	I-22	Q8	I-18	Q231	J-11
D20	J-19	Q9	I-19	Q232	J-3
D21	J-16	Q10	J-19	Q501	G-11
D22	I-17	Q11	E-18	Q502	H-10
D23	I-16	Q12	H-18	Q701	B-25
D24	G-17	Q13	J-22	Q702	B-17
D25	G-14	Q21	H-16	Q703	A-22
D26	F-15	Q22	H-24		
D27	F-25	Q23	H-24		
D28	G-15	Q24	G-17		
D29	E-16	Q26	E-25		
D30	F-18	Q27	E-26		
D31	E-17	Q28	G-14		
D32	B-3	Q29	I-25		
D201	H-2	Q30	H-25		
D203	H-2	Q31	G-23		
D204	J-8	Q32	F-23		
D205	I-9	Q33	E-23		
D206	J-10	Q35	F-22		
D207	I-8	Q201	G-9		
D208	I-9	Q202	F-12		
D209	I-10	Q203	F-12		
D210	J-6	Q204	G-12		
D211	J-11	Q205	G-12		
D212	J-3	Q206	G-12		
D303	B-8	Q207	F-12		
D501	G-11	Q208	F-13		
D502	G-4	Q209	F-13		
D701	C-14	Q210	G-3		
D702	B-24	Q211	G-13		
D703	C-17	Q212	F-2		
D704	D-22	Q214	F-3		

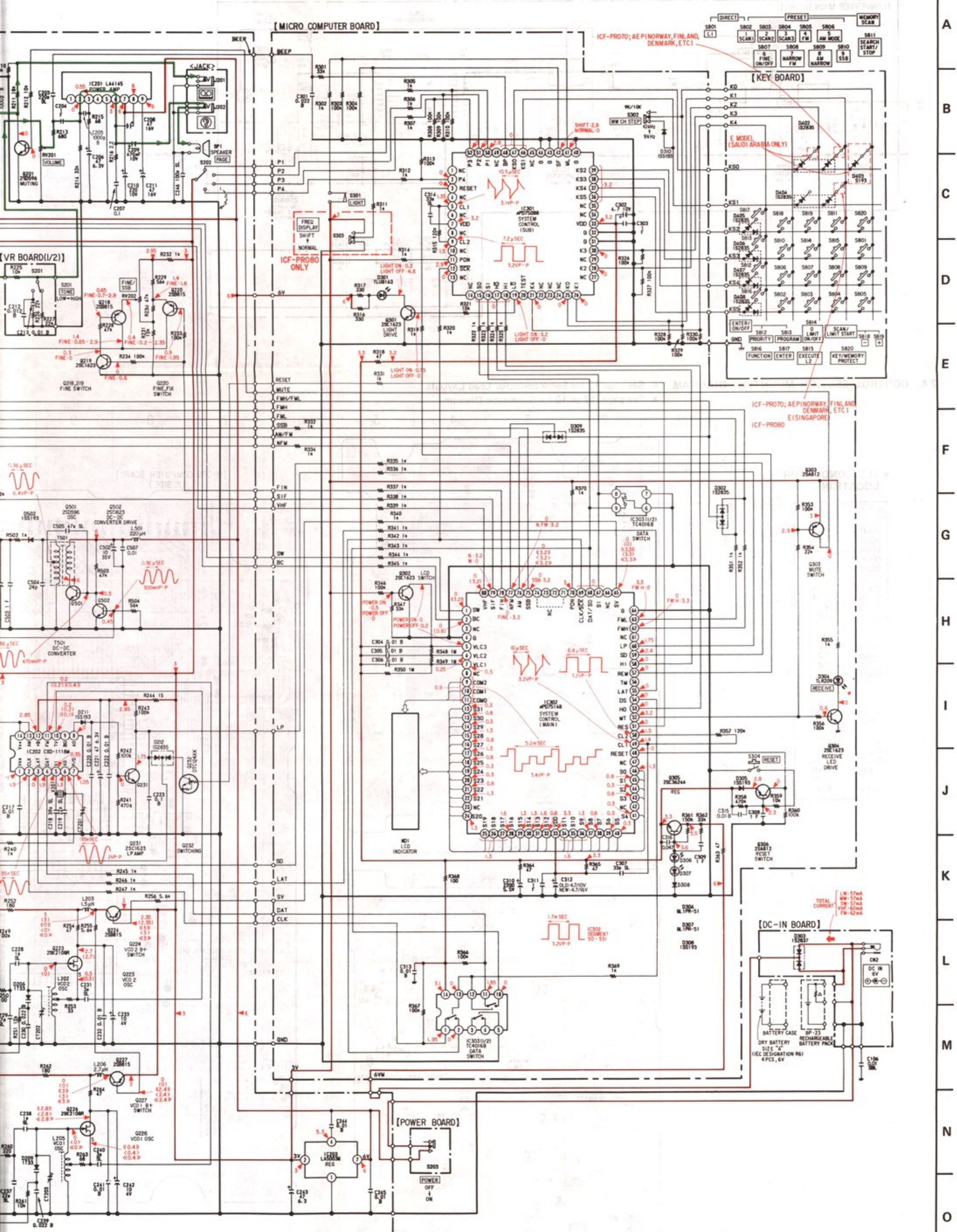


ICF-PRO70/PRO80



- See pages 10, 11 for IC Block Diagrams.
- See pages 20, 21 for Converter Board Schematic Diagram (Only for ICF-PR80).
- See pages 20 to 22 for Control Board Section Mounting Diagram.
- See pages 21, 22 for notes.

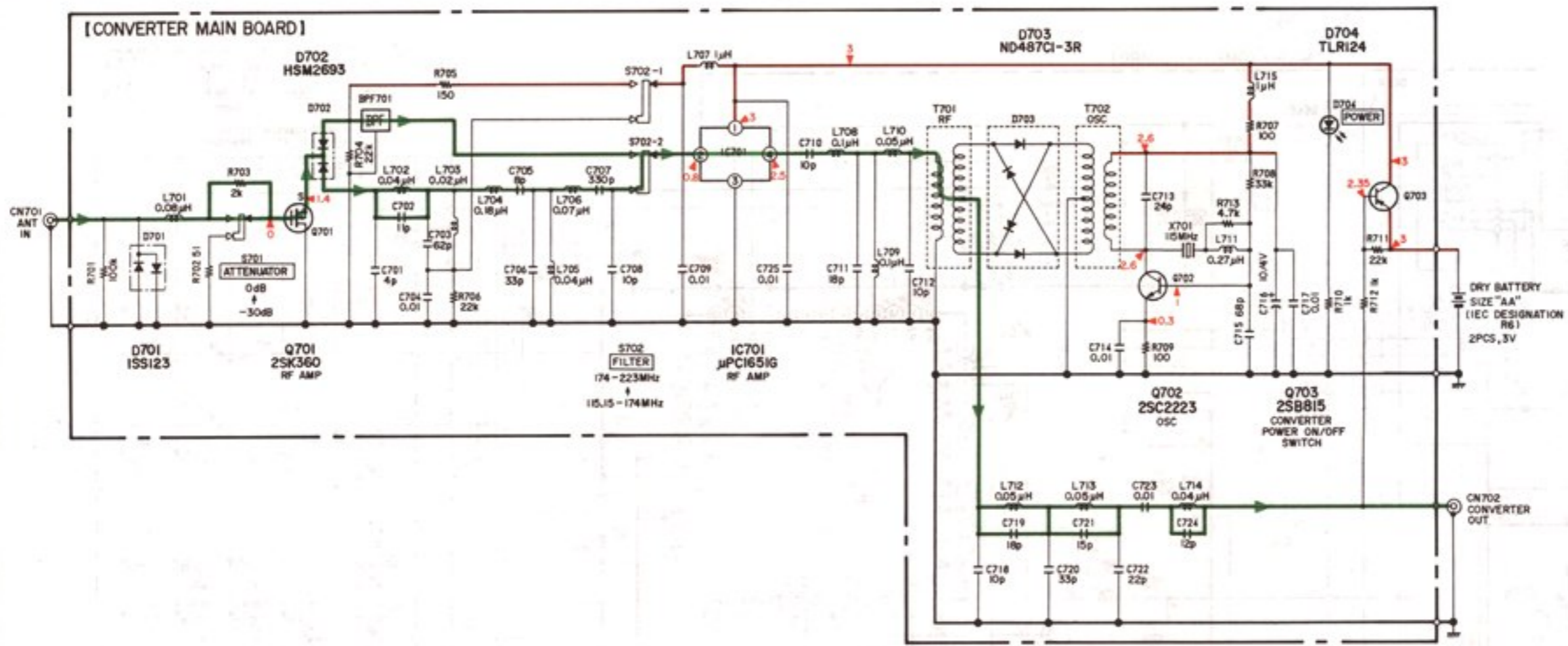




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2-3. CONVERTER BOARD SCHEMATIC DIAGRAM (ONLY FOR ICF-PRO80)

• See pages 15, 16 for Mounting Diagram.

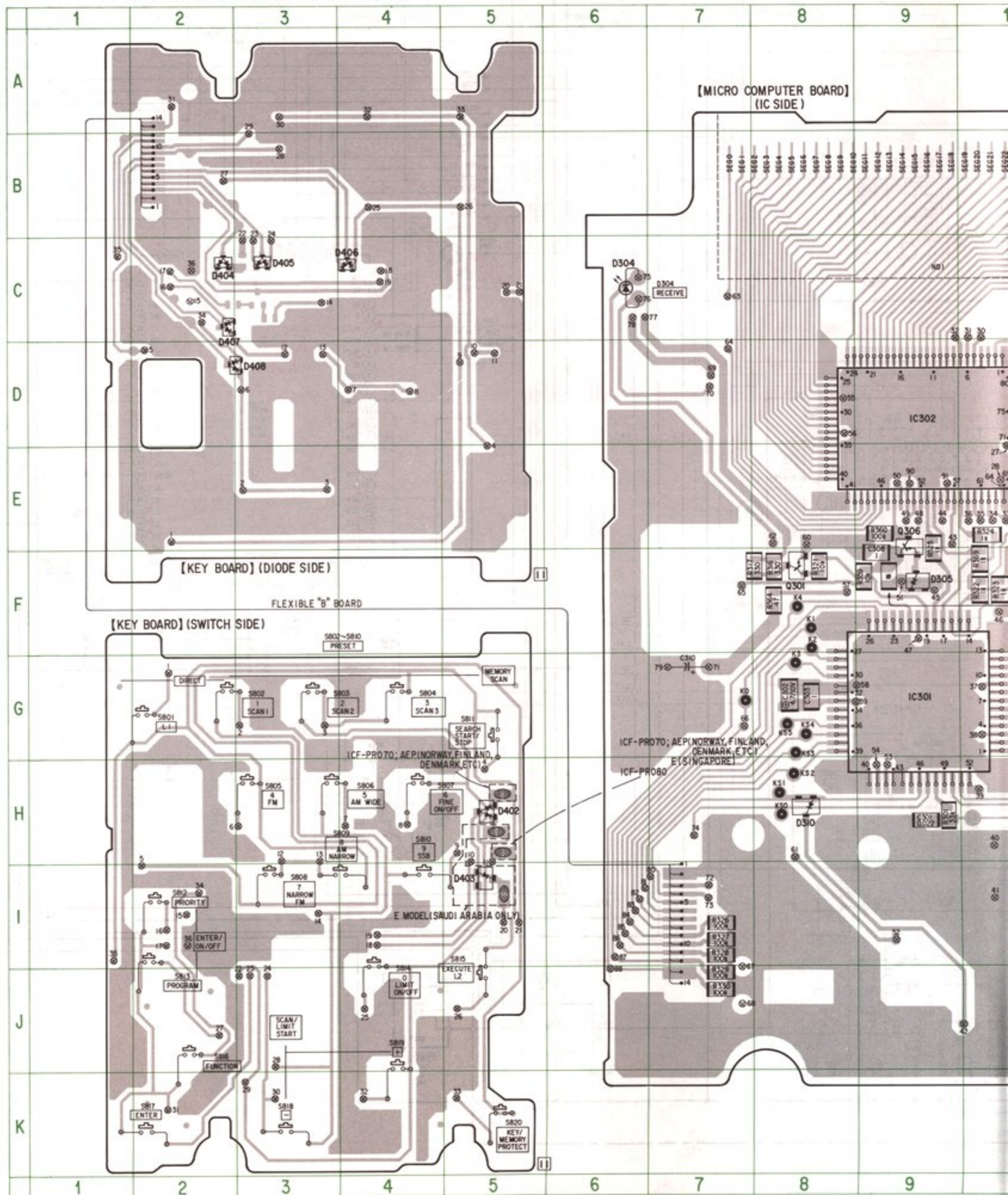


2-4. CONTROL SECTION MOUNTING DIAGRAM

• See page 12 for Semiconductor Lead Layouts.
• See pages 17 to 19 for Schematic Diagram.

• SEMICONDUCTOR LOCATION

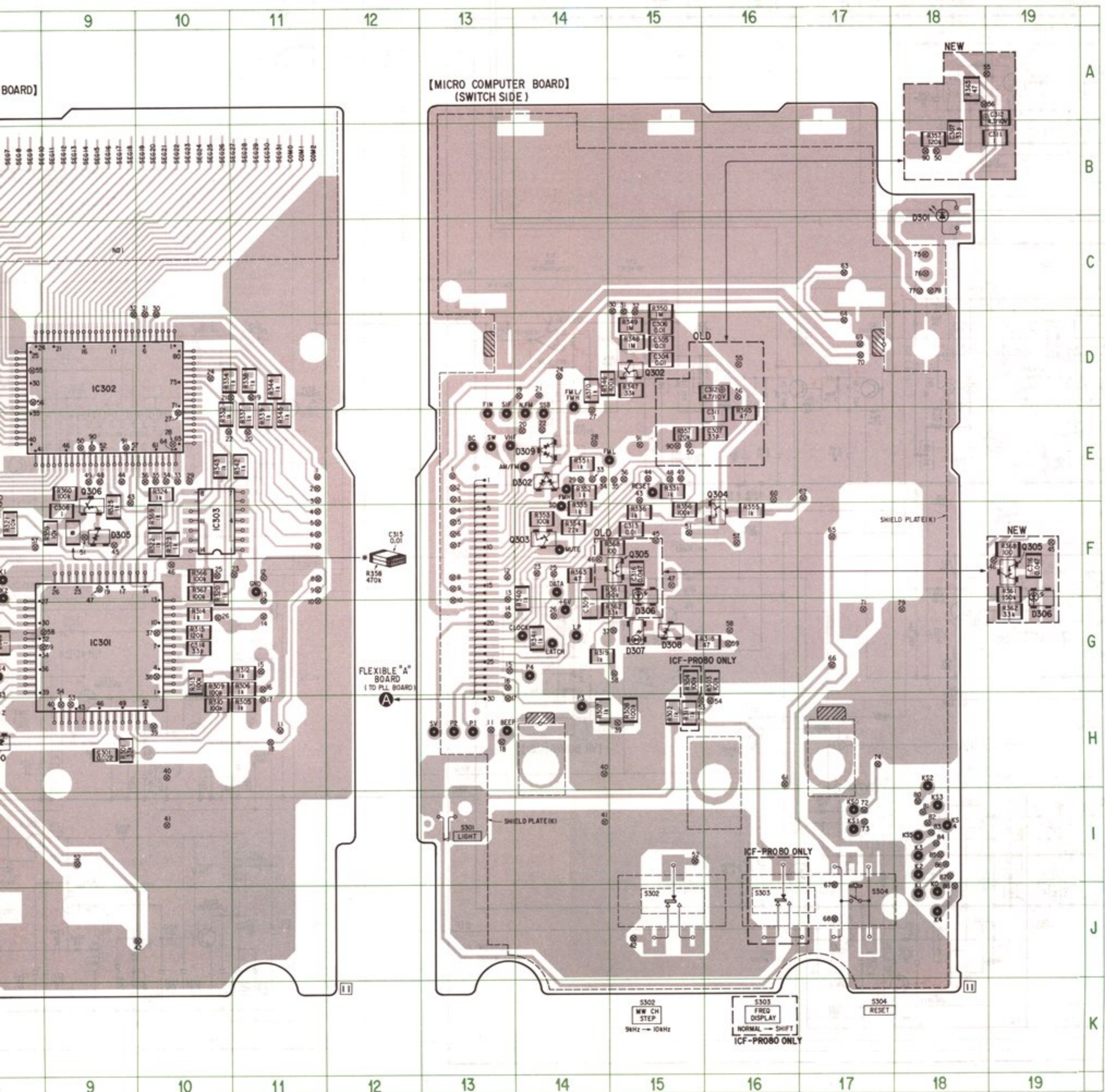
Ref. No.	Location
D301	C-18
D302	E-14
D304	C-6
D305	F-9
D306	G-15
D307	G-15
D308	G-15
D309	E-14
D310	H-8
D401	C-3
D402	H-5
D403	I-5
D404	C-2
D405	C-3
D406	C-4
D407	C-2
D408	D-3
IC301	G-9
IC302	D-9
IC303	F-10
Q301	F-8
Q302	D-15
Q303	F-14
Q304	E-16
Q305	F-15
Q306	E-9



- Note:**
- All capacitors are in μF unless otherwise noted. pF : μpF
50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
 - Signal path:
 ◀ : FM signal path.
 ▶ : MW signal path.
 ▶ : SW, VHF signal path.
 - Δ : internal component.
 - --- : B+ bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under detuned conditions with a VOM (50 k Ω /V).
 no mark: FM []: BC N: FM: NARROW FM
 (): VHF < >: MW N: AM NARROW
 []: SW << >>: LW W: AM WIDE
 - Voltage variations may be noted due to normal production tolerances.
 - Power voltage is 6 V and fed with regulated dc power supply from battery terminal.
 - Waveforms are taken to ground in no-signal mode by using oscilloscope.
 Voltage variations may be noted due to normal production tolerances.

• Switch

Ref. No.	Switch	Position
S101	SQL	MANUAL
S201	TONE	HIGH
S202	PAGE	1
S203	POWER	ON
S301	LIGHT	OFF
S302	MW CH STEP	9 kHz
S303	FREQ DISPLAY	NORMAL
S304	RESET	OFF
S701	ATTENUATOR	-30 dB
S702	FILTER	115.15-174 MHz
S801	DIRECT L1	OFF
S802	1, SCAN 1	OFF
S803	2, SCAN 2	OFF
S804	3, SCAN 3	OFF
S805	4, FM	OFF
S806	5, AM WIDE	OFF
S807	6, FINE ON/OFF	OFF
S808	7, NARROW FM	OFF
S809	8, AM NARROW	OFF
S810	9, SSB	OFF
S811	MEMORY SCAN, SEARCH START/STOP	OFF
S812	PRIORITY PROGRAM	OFF
S813	PROGRAM	OFF
S814	0, LIMIT ON/OFF	OFF
S815	EXECUTE L2	OFF
S816	FUNCTION	OFF
S817	ENTER	OFF
S818	SCAN/LIMIT START, -	OFF
S819	SCAN/LIMIT START, +	OFF
S820	KEY/MEMORY PROTECT	OFF

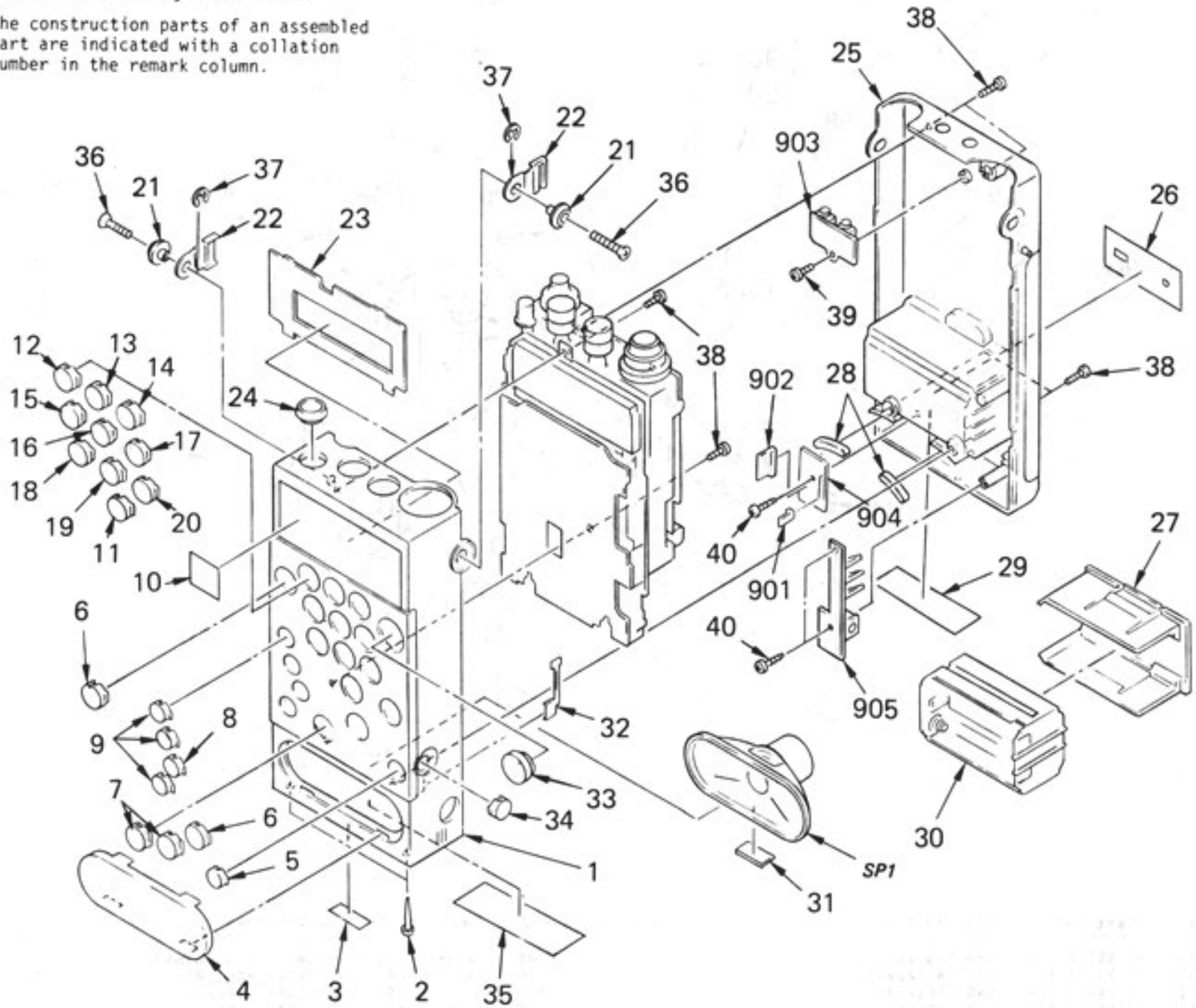


SECTION 3
EXPLODED VIEWS AND PARTS LIST

NOTE:

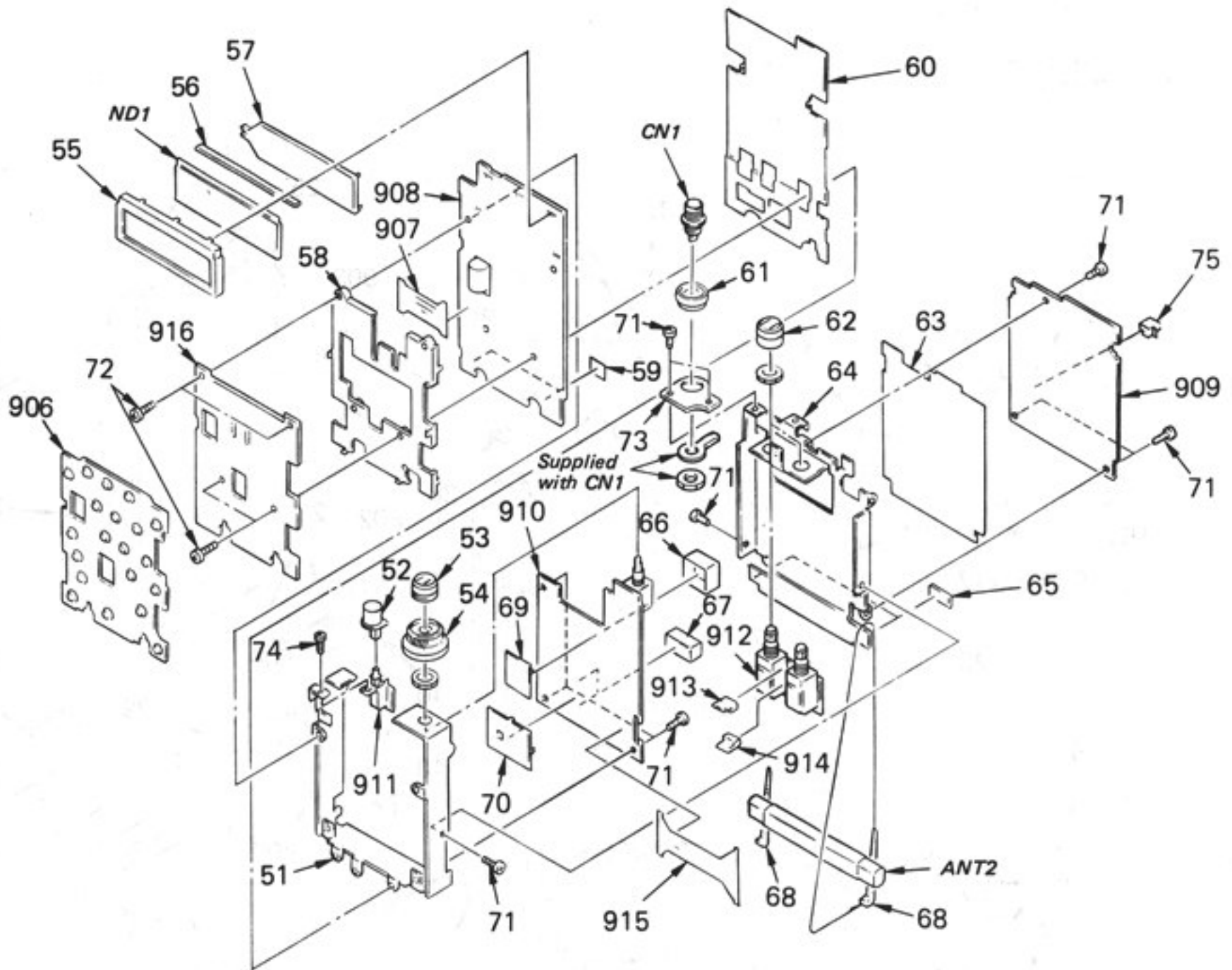
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with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

(1)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	X-3893-707-1	(ICF-PRO70:Saudi Arabia) ...CABINET (FRONT) ASSY		24	3-893-728-01	RING, POWER	
	X-3898-203-1	(ICF-PRO80).....CABINET (FRONT) ASSY		25	3-898-224-01	LID, REAR, CABINET	
	X-3898-204-1	(ICF-PRO70:E,AEP)...CABINET (FRONT) ASSY		26	*3-898-204-01	LABEL, SWITCH	
2	3-427-542-00	STOPER		27	3-893-706-01	HOLDER, BATTERY	
3	*3-701-999-00	LABEL, SERIAL NUMBER		28	3-881-931-00	CUSHION, SPEAKER	
4	3-898-226-01	PANEL, SPEAKER		29	3-893-722-01	PLATE, BLIND	
5	3-893-717-01	BUTTON, KP		30	X-3564-820-0	HOLDER ASSY, BATTERY	
6	3-893-704-01	BUTTON (B), MEMORY		31	9-911-838-XX	CUSHION, SPEAKER	
7	3-893-704-11	BUTTON (B), MEMORY		32	*3-898-215-01	SPRING (2)	
8	3-893-716-21	BUTTON, DOUBLE KEY		33	3-893-715-01	BUTTON, S/S	
9	3-893-716-11	BUTTON, DOUBLE KEY		34	3-893-717-11	BUTTON, KP	
10	3-703-709-00	STICKER, SONY SYMBOL (15)		35	*3-898-202-01	(ICF-PRO80)...LABEL, MODEL NUMBER (U)	
11	3-893-703-91	BUTTON (A), MEMORY		36	7-621-662-80	SCREW +RK 2.6X12	
12	3-893-703-01	BUTTON (A), MEMORY		37	7-624-109-04	STOP RING 5.0, TYPE -E	
13	3-893-703-11	BUTTON (A), MEMORY		38	7-621-284-30	SCREW +P 2.6X8	
14	3-893-703-21	BUTTON (A), MEMORY		39	7-621-259-25	SCREW +P 2.6X4	
15	3-893-703-31	BUTTON (A), MEMORY		40	7-685-134-19	SCREW +P 2.6X8 TYPE2 SLIT	
16	3-893-703-41	BUTTON (A), MEMORY		901	*1-560-456-00	PIN, CONNECTOR 2P	
17	3-893-703-51	BUTTON (A), MEMORY		902	*1-560-591-00	PIN, CONNECTOR 7P	
18	3-893-703-61	BUTTON (A), MEMORY		904	*1-622-289-11	PC BOARD, TRANSLATION	
19	3-893-703-71	BUTTON (A), MEMORY		905	*1-622-288-11	PC BOARD, DC-IN	
20	3-893-703-81	BUTTON (A), MEMORY		SP1	1-503-374-11	SPEAKER	
21	3-893-726-01	COLLAR, BELT					
22	3-893-730-01	BRACKET, BELT					
23	3-898-227-01	(ICF-PRO70:E,ICF-PRO80)...PLATE, BACK					
	3-898-227-01	(ICF-PRO70:Saudi Arabia)...PLATE, BACK					
	3-898-227-31	(ICF-PRO70:AEP).....PLATE, BACK					

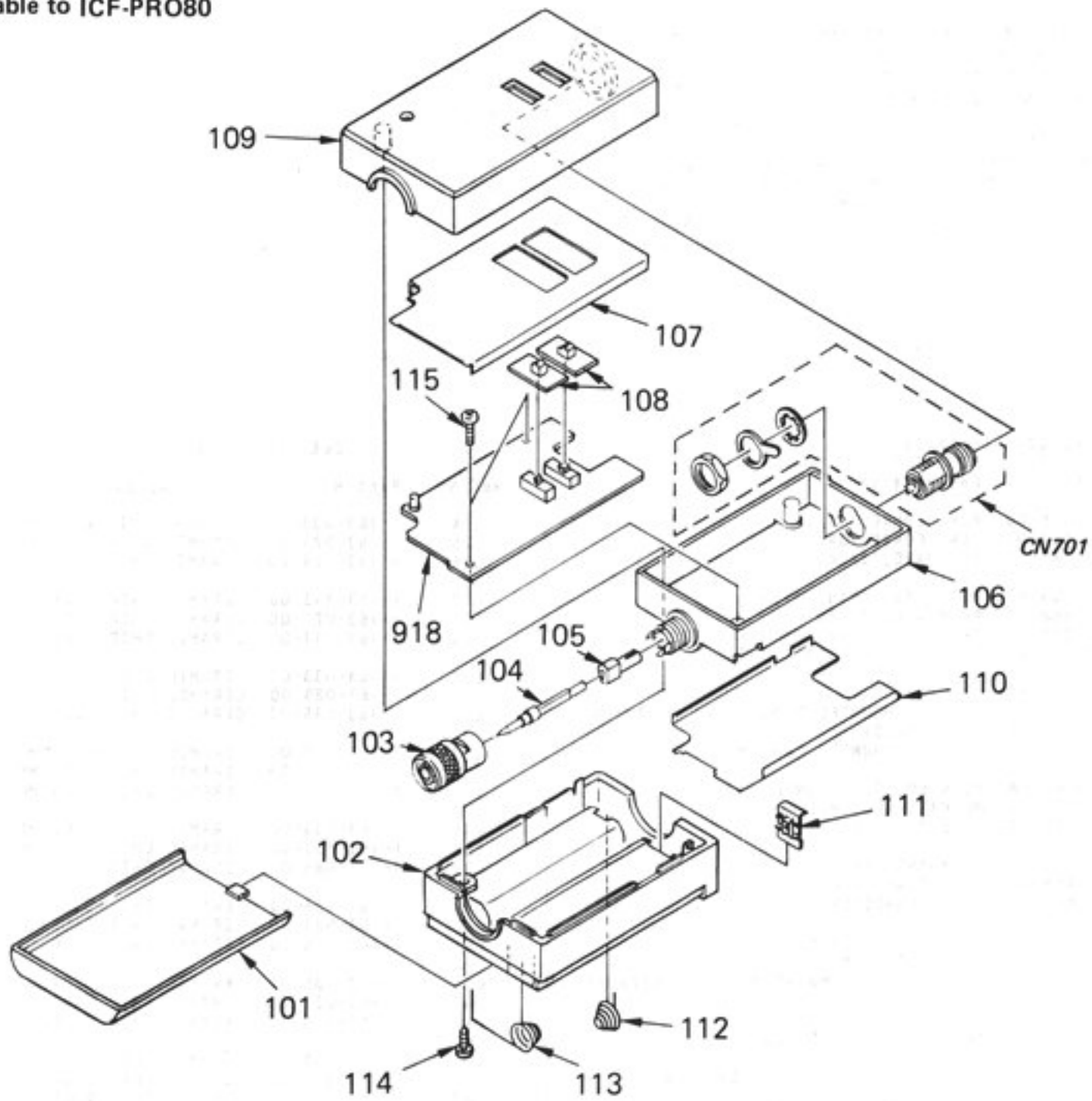
(2)



No.	Part No.	Description	Remarks
51	*3-893-712-01	CHASSIS (B)	
52	3-893-714-01	BUTTON (POWER)	
53	3-898-213-01	KNOB (FINE)	
54	3-898-214-01	KNOB (PAGE)	
55	*3-898-216-01	HOLDER, LCD	
56	1-535-656-11	CONDUCTOR, CONNECTOR	
57	*3-893-721-01	CHIP, ILLUMINATION	
58	*3-898-223-01	SPACER	
59	*3-893-763-01	SPACER, PC BOARD	
60	*X-3893-701-1	PLATE (K) ASSY, SHIELD	
61	3-893-719-01	RING, ANTENNA	
62	3-893-713-01	KNOB (A)	
63	*3-893-755-01	INSULATOR (C)	
64	*3-893-711-01	CHASSIS (A)	
65	9-911-838-XX	CUSHION, SPEAKER	
66	*3-898-220-01	PLATE, SHIELD, D/D,M	
67	*3-898-218-01	PLATE (2), SHIELD	
68	*3-671-893-00	CLAMP (LOW TYPE)	
69	*X-3898-202-1	PLATE (D/D,P) ASSY, SHIELD	
70	*X-3898-201-1	PLATE (I) ASSY, SHIELD	
71	7-621-259-25	SCREW +P 2.6X4	
72	7-621-284-30	SCREW +P 2.6X8	
73	*3-893-720-01	HOLDER, ANTENNA	
74	7-621-255-25	SCREW +P 2X4	
75	*3-893-770-01	CASE (CF), SHIELD	
903	*1-622-287-11	PC BOARD, JACK	
906	1-571-044-11	SWITCH, RUBBER KEY (S801-820)	
907	1-622-336-11	PC BOARD, FLEXIBLE (B)	
908	A-3661-044-A	(ICF-PRO80)...MOUNTED PCB, MICRO COMPUTER	
	A-3661-045-A	(ICF-PRO70)...MOUNTED PCB, MICRO COMPUTER	

No.	Part No.	Description	Remarks
909	A-3660-680-A	MOUNTED PCB, SIGNAL	
910	A-3661-043-A	MOUNTED PCB, PLL	
911	*1-622-285-11	PC BOARD, POWER	
912	*1-622-286-11	PC BOARD, YR	
913	*1-560-466-00	PIN, CONNECTOR 3P	
914	*1-560-466-00	PIN, CONNECTOR 3P	
915	1-622-335-11	PC BOARD, FLEXIBLE (A)	
916	*1-622-284-11	PC BOARD, KEY	
ANT2	1-402-272-11	ANTENNA, FERRITE-ROD	
CN1	*1-563-956-11	SOCKET, CONNECTOR	

(3) Applicable to ICF-PRO80



No.	Part No.	Description	Remarks
101	3-898-234-01	(ICF-PRO80)...LID, BATTERY CASE	
102	3-898-242-01	(ICF-PRO80)...COVER (B)	
103	*3-898-239-01	(ICF-PRO80)...SHELL, TMC-P	
104	*3-898-237-01	(ICF-PRO80)...CONTACT	
105	*3-898-238-01	(ICF-PRO80)...SLEEVE	
106	*X-3898-205-1	(ICF-PRO80)...CHASSIS ASSY	
107	*3-898-231-01	(ICF-PRO80)...PLATE (A), SHIELD	
108	3-898-235-01	COVER, SWITCH	
109	3-898-241-01	(ICF-PRO80)...COVER (A)	
110	*3-898-232-01	(ICF-PRO80)...PLATE (B), SHIELD	
111	3-898-229-01	(ICF-PRO80)...TERMINAL BOARD, PLUS	
112	3-898-230-01	(ICF-PRO80)...SPRING	
113	3-898-243-01	(ICF-PRO80)...SPRING	
114	7-685-134-19	SCREW +P 2.6X8 TYPE2 SLIT	
115	7-621-259-25	SCREW +P 2.6X4	
918	A-3665-026-A	(ICF-PRO80)...MOUNTED PCB, CONVERTER	
CN701	*I-563-956-21	(ICF-PRO80)...SOCKET, CONNECTOR	

SECTION 4
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

SEMICONDUCTORS

In each case, U : μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-560-456-00	PIN, CONNECTOR 2P
902	*1-560-591-00	PIN, CONNECTOR 7P
903	*1-622-287-11	PC BOARD, JACK
904	*1-622-289-11	PC BOARD, TRANSLATION
905	*1-622-288-11	PC BOARD, DC-1N
906	1-571-044-11	SWITCH, RUBBER KEY (S801-820)
907	1-622-336-11	PC BOARD, FLEXIBLE (B)
908	A-3661-044-A	(ICF-PRO80) ...MOUNTED PCB, MICRO COMPUTER
	A-3661-045-A	(ICF-PRO70) ...MOUNTED PCB, MICRO COMPUTER
909	A-3660-680-A	MOUNTED PCB, SIGNAL
910	A-3661-043-A	MOUNTED PCB, PLL
911	*1-622-285-11	PC BOARD, POWER
912	*1-622-286-11	PC BOARD, YR
913	*1-560-466-00	PIN, CONNECTOR 3P
914	*1-560-466-00	PIN, CONNECTOR 3P
915	1-622-335-11	PC BOARD, FLEXIBLE (A)
916	*1-622-284-11	PC BOARD, KEY
918	A-3665-026-A	(ICF-PRO80)...MOUNTED PCB, CONVERTER
ANT1	1-501-377-11	ANTENNA, TELESCOPIC
ANT2	1-402-272-11	ANTENNA, FERRITE-ROD
BPF701	1-235-763-11	(ICF-PRO80)...FILTER, BAND PASS
C1	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C2	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C5	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C6	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V
C7	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C8	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V
C9	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C10	1-163-086-00	CERAMIC CHIP 3PF 0.25PF 50V
C11	1-163-125-00	CERAMIC CHIP 220PF 5% 50V
C12	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C13	1-163-113-00	CERAMIC CHIP 68PF 5% 50V
C14	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C15	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V
C16	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C17	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C18	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V
C19	1-163-086-00	CERAMIC CHIP 3PF 0.25PF 50V
C20	1-163-107-00	CERAMIC CHIP 39PF 5% 50V
C21	1-163-109-00	CERAMIC CHIP 47PF 5% 50V
C22	1-163-021-00	CERAMIC CHIP 0.01MF 10% 50V
C23	1-163-013-00	CERAMIC CHIP 0.0022MF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
C24	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C25	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C26	1-163-129-00	CERAMIC CHIP 330PF	5%	50V
C27	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C28	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C29	1-163-111-00	CERAMIC CHIP 56PF	5%	50V
C30	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C31	1-163-089-00	CERAMIC CHIP 6PF	0.25PF	50V
C32	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C33	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C34	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C35	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C36	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C37	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C38	1-163-085-00	CERAMIC CHIP 2PF	0.25PF	50V
C39	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C40	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C41	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C42	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C43	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V
C44	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C45	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V
C46	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C47	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C48	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C49	1-124-778-00	ELECT 22MF	20%	6.3V
C50	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C51	1-163-135-00	CERAMIC CHIP 560PF	5%	50V
C52	1-126-205-00	ELECT 47MF	20%	6.3V
C53	1-163-123-00	CERAMIC CHIP 180PF	5%	50V
C54	1-124-778-00	ELECT 22MF	20%	6.3V
C55	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
C56	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C57	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V
C58	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C59	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C60	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C61	1-163-145-00	CERAMIC CHIP 0.0015MF	10%	50V
C62	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C63	1-135-099-00	TANTAL. CHIP 2.2MF	10%	6.3V
C64	1-126-205-00	ELECT 47MF	20%	6.3V
C65	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C66	1-126-195-00	ELECT 2.2MF	20%	50V
C67	1-126-195-00	ELECT 2.2MF	20%	50V
C68	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C69	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C70	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C71	1-163-100-00	CERAMIC CHIP 20PF	5%	50V	
C72	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C73	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	
C74	1-162-611-00	CERAMIC CHIP 1MF		25V	
C75	1-135-095-00	TANTAL. CHIP 1.5MF	10%	10V	
C76	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C77	1-163-114-00	CERAMIC CHIP 75PF	5%	50V	
C78	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C79	1-163-013-00	CERAMIC CHIP 0.0022MF	10%	50V	
C80	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C81	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C82	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C83	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C84	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C85	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C86	1-163-598-91	CERAMIC CHIP 47PF	5%	50V	
C87	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C88	1-163-135-00	CERAMIC CHIP 560PF	5%	50V	
C89	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
C90	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C91	1-126-205-00	ELECT 47MF	20%	6.3V	
C92	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	
C93	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C94	1-162-638-11	CERAMIC CHIP 1MF		16V	
C95	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C96	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	
C97	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C98	1-163-127-00	CERAMIC CHIP 270PF	5%	50V	
C99	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C100	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	
C101	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V	
C102	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C103	1-162-611-00	CERAMIC CHIP 1MF		25V	
C104	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C105	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C201	1-126-205-00	ELECT 47MF	20%	6.3V	
C202	1-126-205-00	ELECT 47MF	20%	6.3V	
C203	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	
C204	1-162-611-00	CERAMIC CHIP 1MF		25V	
C205	1-163-141-00	CERAMIC CHIP 0.001MF	10%	50V	
C206	1-126-205-00	ELECT 47MF	20%	6.3V	
C207	1-163-077-11	CERAMIC CHIP 0.1MF		16V	
C208	1-126-204-11	ELECT 47MF	20%	16V	
C209	1-124-472-11	ELECT 470MF	20%	10V	
C210	1-124-444-00	ELECT 220MF	20%	10V	
C211	1-126-204-11	ELECT 47MF	20%	16V	
C212	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V	
C213	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C214	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C215	1-130-768-00	FILM 0.1MF	10%	63V	
C216	1-163-123-00	CERAMIC CHIP 180PF	5%	50V	
C217	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C218	1-163-107-00	CERAMIC CHIP 39PF	5%	50V	
C219	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C220	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C221	1-126-205-00	ELECT 47MF	20%	6.3V	
C222	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C223	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V	
C224	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C225	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C226	1-163-091-00	CERAMIC CHIP 8PF		0.25PF 50V	
C227	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C228	1-163-083-00	CERAMIC CHIP 1PF		0.25PF 50V	
C229	1-163-103-00	CERAMIC CHIP 27PF	5%	50V	
C230	1-161-055-00	CERAMIC 0.022MF	20%	25V	
C231	1-163-086-00	CERAMIC CHIP 3PF		0.25PF 50V	
C232	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C233	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C234	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C235	1-163-091-00	CERAMIC CHIP 8PF		0.25PF 50V	
C236	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C237	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	
C238	1-163-083-00	CERAMIC CHIP 1PF		0.25PF 50V	
C239	1-161-055-00	CERAMIC 0.022MF	20%	25V	
C240	1-163-086-00	CERAMIC CHIP 3PF		0.25PF 50V	
C241	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C242	1-135-104-00	TANTAL. CHIP 10MF	10%	4V	
C243	1-126-205-00	ELECT 47MF	20%	6.3V	
C244	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C245	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C246	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C247	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C301	1-163-033-00	CERAMIC CHIP 0.022MF	10%	25V	
C302	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C303	1-162-611-00	CERAMIC CHIP 1MF		25V	
C304	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C305	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C306	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C307	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
C308	1-162-611-00	CERAMIC CHIP 1MF		25V	
C309	1-162-611-00	CERAMIC CHIP 1MF		25V	
C310	1-126-166-11	ELECT 2200MF		5.5V	
C311	1-162-611-00	CERAMIC CHIP 1MF		25V	
C312	1-135-096-21	TANTAL. CHIP 4.7MF	10%	10V	
C313	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C314	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
C315	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C316	1-163-035-00	CERAMIC CHIP 0.047MF	10%	25V	
C501	1-130-768-00	FILM 0.1MF	10%	63V	
C502	1-126-200-00	ELECT 10MF	20%	35V	
C503	1-162-611-00	CERAMIC CHIP 1MF		25V	
C504	1-163-102-00	CERAMIC CHIP 24PF		0.25PF 50V	
C505	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
C506	1-124-778-00	ELECT 22MF	20%	6.3V	
C507	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C701	1-163-087-00	(ICF-PRO80) ...CERAMIC CHIP 4PF		0.25PF 50V	
C702	1-163-094-00	(ICF-PRO80) ...CERAMIC CHIP 11PF	5%	50V	
C703	1-163-112-00	(ICF-PRO80) ...CERAMIC CHIP 62PF	5%	50V	
C704	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF	10%	50V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C705	1-163-091-00	(ICF-PRO80) ...CERAMIC CHIP 8PF 0.25PF 50V
C706	1-163-105-00	(ICF-PRO80) ...CERAMIC CHIP 33PF 5% 50V
C707	1-163-129-00	(ICF-PRO80) ...CERAMIC CHIP 330PF 5% 50V
C708	1-163-093-00	(ICF-PRO80) ...CERAMIC CHIP 10PF 5% 50V
C709	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF 10% 50V
C710	1-163-093-00	(ICF-PRO80) ...CERAMIC CHIP 10PF 5% 50V
C711	1-163-099-00	(ICF-PRO80) ...CERAMIC CHIP 18PF 5% 50V
C712	1-163-093-00	(ICF-PRO80) ...CERAMIC CHIP 10PF 5% 50V
C713	1-163-103-00	(ICF-PRO80) ...CERAMIC CHIP 27PF 5% 50V
C714	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF 10% 50V
C715	1-163-113-00	(ICF-PRO80) ...CERAMIC CHIP 68PF 5% 50V
C716	1-135-104-00	(ICF-PRO80) ...TANTAL. CHIP 10MF 20% 4V
C717	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF 10% 50V
C718	1-163-093-00	(ICF-PRO80) ...CERAMIC CHIP 10PF 5% 50V
C719	1-163-099-00	(ICF-PRO80) ...CERAMIC CHIP 18PF 5% 50V
C720	1-163-105-00	(ICF-PRO80) ...CERAMIC CHIP 33PF 5% 50V
C721	1-163-097-00	(ICF-PRO80) ...CERAMIC CHIP 15PF 5% 50V
C722	1-163-101-00	(ICF-PRO80) ...CERAMIC CHIP 22PF 5% 50V
C723	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF 10% 50V
C724	1-163-095-00	(ICF-PRO80) ...CERAMIC CHIP 12PF 5% 50V
C725	1-163-021-00	(ICF-PRO80) ...CERAMIC CHIP 0.01MF 10% 50V
CF1	- - -	FILTER, CERAMIC
CF2	- - -	FILTER, CERAMIC
CF3	1-567-844-11	FILTER, CERAMIC
CF4	- - -	FILTER, CERAMIC
CF5	1-527-483-00	FILTER, CERAMIC
CF6	1-567-846-11	FILTER, CERAMIC
CF7	1-567-845-11	FILTER, CERAMIC
CN1	*1-563-956-11	SOCKET, CONNECTOR
CN2	1-507-954-11	JACK, EXTERNAL POWER (DC IN 6V)
CN701	*1-563-956-21	(ICF-PRO80)...SOCKET, CONNECTOR
CT1	1-141-329-11	CAP, VAR, TRIMMER (CHIP)
CT2	1-141-329-11	CAP, VAR, TRIMMER (CHIP)
CT201	1-141-311-11	CAP, VAR, TRIMMER (CHIP)
CT202	1-141-311-11	CAP, VAR, TRIMMER (CHIP)
CT203	1-141-329-11	CAP, VAR, TRIMMER (CHIP)
D1	8-719-101-23	DIODE ISS123
D3	8-719-941-25	DIODE HSM2693
D4	8-713-300-00	DIODE IT33

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D5	8-713-300-00	DIODE IT33
D6	8-713-300-00	DIODE IT33
D7	8-713-300-00	DIODE IT33
D8	8-719-941-25	DIODE HSM2693
D11	8-719-123-79	DIODE ISS279
D12	8-719-101-23	DIODE ISS123
D13	8-719-123-79	DIODE ISS279
D14	8-719-123-79	DIODE ISS279
D15	8-719-123-79	DIODE ISS279
D16	8-719-123-79	DIODE ISS279
D17	8-719-123-79	DIODE ISS279
D18	8-719-123-79	DIODE ISS279
D19	8-719-123-79	DIODE ISS279
D20	8-719-101-05	DIODE IS2837
D21	8-719-908-57	DIODE SVC203
D22	8-719-100-05	DIODE IS2837
D23	8-719-100-05	DIODE IS2837
D24	8-719-801-48	DIODE ISS193
D25	8-719-100-05	DIODE IS2837
D26	8-719-938-72	DIODE SB01-05CP
D27	8-719-938-72	DIODE SB01-05CP
D28	8-719-801-48	DIODE ISS193
D29	8-719-801-48	DIODE ISS193
D30	8-719-100-05	DIODE IS2837
D31	8-719-100-03	DIODE IS2835
D32	8-719-801-48	DIODE ISS193
D201	8-719-801-48	DIODE ISS193
D203	8-719-100-05	DIODE IS2837
D204	8-719-123-79	DIODE ISS279
D205	8-713-300-00	DIODE IT33
D206	8-713-300-00	DIODE IT33
D207	8-719-123-79	DIODE ISS279
D208	8-713-300-00	DIODE IT33
D209	8-713-300-00	DIODE IT33
D210	8-719-801-48	DIODE ISS193
D211	8-719-801-48	DIODE ISS193
D212	8-719-100-03	DIODE IS2835
D301	8-719-812-33	DIODE TLG123A
D302	8-719-100-03	DIODE IS2835
D303	8-719-100-05	DIODE IS2837
D304	8-719-800-67	DIODE TLR209
D305	8-719-801-48	DIODE ISS193
D306	8-719-940-16	DIODE GL1PR51
D307	8-719-940-16	DIODE GL1PR51
D308	8-719-801-48	DIODE ISS193
D309	8-719-100-03	DIODE IS2835
D310	8-719-801-48	DIODE ISS193
D402	8-719-100-03	DIODE IS2835
D403	8-719-801-48	DIODE ISS193
D405	8-719-100-03	DIODE IS2835
D406	8-719-100-03	DIODE IS2835
D407	8-719-100-03	DIODE IS2835
D408	8-719-100-03	DIODE IS2835
D501	8-719-106-98	DIODE RD16M-B
D502	8-719-801-48	DIODE ISS193
D701	8-719-101-23	(ICF-PRO80)...DIODE ISS123

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D702	8-719-941-25	(ICF-PRO80)...DIODE HSM2693
D703	8-719-118-32	(ICF-PRO80)...DIODE ND487C1
D704	8-719-812-41	(ICF-PRO80)...DIODE TLR124
IC1	8-759-208-37	IC TA7761F
IC2	8-759-208-38	IC TA7758P
IC3	8-759-100-94	IC UPC358G2
IC201	8-759-801-65	IC LA4145
IC202	8-752-323-84	IC CXD1118M
IC203	8-759-801-15	IC LA5003M
IC301	8-759-140-45	IC UPD7508G-798-00
IC302	8-759-140-41	IC UPD7514G-296-12
IC303	8-759-207-82	IC TC4016B
IC701	8-759-107-67	(ICF-PRO80)...IC UPC1651G
J201	1-507-921-00	JACK (EARPHONE)
J202	1-507-921-00	JACK (TAPE)
L1	1-426-308-11	TRANSFORMER, HIGH FREQUENCY
L2	1-459-720-11	COIL (WITH CORE)
L3	1-459-721-11	COIL (WITH CORE)
L4	1-410-192-51	INDUCTOR CHIP 1UH
L5	1-410-188-51	INDUCTOR CHIP 0.47UH
L6	1-410-220-31	INDUCTOR CHIP 220UH
L7	1-410-184-51	INDUCTOR CHIP 0.22UH
L8	1-410-184-51	INDUCTOR CHIP 0.22UH
L9	1-410-184-51	INDUCTOR CHIP 0.22UH
L10	1-410-193-41	INDUCTOR CHIP 1.2UH
L11	1-410-192-51	INDUCTOR CHIP 1UH
L12	1-410-204-41	INDUCTOR CHIP 10UH
L13	1-410-208-41	INDUCTOR CHIP 22UH
L14	1-410-202-51	INDUCTOR CHIP 6.8UH
L15	1-404-725-11	TRANSFORMER, IF
L16	1-410-220-31	INDUCTOR CHIP 220UH
L17	1-410-204-41	INDUCTOR CHIP 10UH
L18	1-410-187-41	INDUCTOR CHIP 0.39UH
L19	1-406-232-11	COIL (OSC)
L20	1-404-728-11	TRANSFORMER, IF
L21	1-410-220-31	INDUCTOR CHIP 220UH
L22	1-410-188-51	INDUCTOR CHIP 0.47UH
L201	1-459-722-11	COIL (WITH CORE)
L202	1-459-716-11	COIL (WITH CORE)
L203	1-410-194-41	INDUCTOR CHIP 1.5UH
L204	1-459-723-11	COIL (WITH CORE)
L205	1-459-717-11	COIL (WITH CORE)
L206	1-410-197-11	INDUCTOR CHIP 2.7UH
L501	1-410-220-31	INDUCTOR CHIP 220UH
L701	1-410-806-11	(ICF-PRO80)...INDUCTOR CHIP 0.08UH
L702	1-410-802-11	(ICF-PRO80)...INDUCTOR CHIP 0.04UH
L703	1-410-797-11	(ICF-PRO80)...INDUCTOR CHIP 0.02UH
L704	1-410-732-21	(ICF-PRO80)...INDUCTOR CHIP 0.18UH
L705	1-410-802-11	(ICF-PRO80)...INDUCTOR CHIP 0.04UH
L706	1-410-805-11	(ICF-PRO80)...INDUCTOR CHIP 0.07UH
L707	1-410-192-51	(ICF-PRO80)...INDUCTOR CHIP 1UH
L708	1-410-807-11	(ICF-PRO80)...INDUCTOR CHIP 0.1UH
L709	1-410-807-11	(ICF-PRO80)...INDUCTOR CHIP 0.1UH
L710	1-410-803-11	(ICF-PRO80)...INDUCTOR CHIP 0.05UH
L711	1-410-734-11	(ICF-PRO80)...INDUCTOR CHIP 0.27UH
L712	1-410-803-11	(ICF-PRO80)...INDUCTOR CHIP 0.05UH
L713	1-410-803-11	(ICF-PRO80)...INDUCTOR CHIP 0.05UH
L714	1-410-802-11	(ICF-PRO80)...INDUCTOR CHIP 0.04UH
L715	1-410-192-51	(ICF-PRO80)...INDUCTOR CHIP 1UH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
ND1	1-807-822-11	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-304-13	TRANSISTOR 2SK360D
Q2	8-729-304-13	TRANSISTOR 2SK360D
Q3	8-729-102-06	TRANSISTOR 2SC2223
Q4	8-729-116-64	TRANSISTOR 2SK508-K51
Q5	8-729-800-36	TRANSISTOR 2SD1048
Q6	8-769-401-59	TRANSISTOR 2SK613-3
Q7	8-729-116-64	TRANSISTOR 2SK508-K51
Q8	8-729-116-64	TRANSISTOR 2SK508-K51
Q9	8-729-162-44	TRANSISTOR 2SB624-BY4
Q10	8-729-901-02	TRANSISTOR DTC124XK
Q11	8-729-100-66	TRANSISTOR 2SC1623
Q12	8-729-107-45	TRANSISTOR 2SC3624A-L16
Q13	8-729-800-36	TRANSISTOR 2SD1048
Q21	8-729-801-08	TRANSISTOR 2SC2813Q4
Q22	8-729-162-44	TRANSISTOR 2SB624-BY4
Q23	8-729-901-02	TRANSISTOR DTC124XK
Q24	8-729-107-45	TRANSISTOR 2SC3624A-L16
Q26	8-729-901-02	TRANSISTOR DTC124XK
Q27	8-729-801-08	TRANSISTOR 2SC2813Q4
Q28	8-729-100-66	TRANSISTOR 2SC1623
Q29	8-729-162-44	TRANSISTOR 2SB624-BY4
Q30	8-729-162-44	TRANSISTOR 2SB624-BY4
Q31	8-729-102-06	TRANSISTOR 2SC2223
Q32	8-729-801-08	TRANSISTOR 2SC2813Q4
Q33	8-729-162-44	TRANSISTOR 2SB623-BY4
Q35	8-729-901-02	TRANSISTOR DTC124XK
Q201	8-729-159-64	TRANSISTOR 2SD596
Q202	8-729-162-44	TRANSISTOR 2SB624-BY4
Q203	8-729-162-44	TRANSISTOR 2SB624-BY4
Q204	8-729-162-44	TRANSISTOR 2SB624-BY4
Q205	8-729-162-44	TRANSISTOR 2SB624-BY4
Q206	8-729-162-44	TRANSISTOR 2SB624-BY4
Q207	8-729-162-44	TRANSISTOR 2SB624-BY4
Q208	8-729-162-44	TRANSISTOR 2SB624-BY4
Q209	8-729-100-66	TRANSISTOR 2SC1623
Q210	8-729-162-44	TRANSISTOR 2SB624-BY4
Q211	8-729-903-10	TRANSISTOR FMW1
Q212	8-729-162-44	TRANSISTOR 2SB624-BY4
Q214	8-729-162-44	TRANSISTOR 2SB624-BY4
Q215	8-729-903-10	TRANSISTOR FMW1
Q216	8-729-162-44	TRANSISTOR 2SB624-BY4
Q218	8-729-162-44	TRANSISTOR 2SB624-BY4
Q219	8-729-100-66	TRANSISTOR 2SC1623
Q220	8-729-162-44	TRANSISTOR 2SB624-BY4
Q221	8-729-159-64	TRANSISTOR 2SD596
Q222	8-729-102-06	TRANSISTOR 2SC2223
Q223	8-729-208-47	TRANSISTOR 2SK210GR
Q224	8-729-162-44	TRANSISTOR 2SB624-BY4
Q225	8-729-102-06	TRANSISTOR 2SC2223
Q226	8-729-208-47	TRANSISTOR 2SK210GR
Q227	8-729-162-44	TRANSISTOR 2SB624-BY4
Q228	8-729-109-44	TRANSISTOR 2SK94
Q229	8-729-100-66	TRANSISTOR 2SC1623
Q230	8-729-109-44	TRANSISTOR 2SK94
Q231	8-729-100-66	TRANSISTOR 2SC1623
Q232	8-729-901-02	TRANSISTOR DTC124XK
Q301	8-729-100-66	TRANSISTOR 2SC1623

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q302	8-729-100-66	TRANSISTOR 2SC1623
Q303	8-729-100-76	TRANSISTOR 2SA812
Q304	8-729-100-66	TRANSISTOR 2SC1623
Q305	8-729-107-45	TRANSISTOR 2SC3624A-L16
Q306	8-729-100-76	TRANSISTOR 2SA812
Q501	8-729-159-64	TRANSISTOR 2SD596
Q502	8-729-100-66	TRANSISTOR 2SC1623
Q701	8-729-304-13	(ICF-PRO80)...TRANSISTOR 2SK3600
Q702	8-729-102-06	(ICF-PRO80)...TRANSISTOR 2SC2223
Q703	8-729-162-44	(ICF-PRO80)...TRANSISTOR 2SB624-BY4
R1	1-216-081-00	METAL CHIP 22K 5% 1/10W
R2	1-216-105-00	METAL CHIP 220K 5% 1/10W
R3	1-216-085-00	METAL CHIP 33K 5% 1/10W
R7	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R8	1-216-049-00	METAL CHIP 1K 5% 1/10W
R9	1-216-097-00	METAL CHIP 100K 5% 1/10W
R10	1-216-013-00	METAL CHIP 33 5% 1/10W
R11	1-216-097-00	METAL CHIP 100K 5% 1/10W
R12	1-216-017-00	METAL CHIP 47 5% 1/10W
R13	1-216-013-00	METAL CHIP 33 5% 1/10W
R14	1-216-111-00	METAL CHIP 390K 5% 1/10W
R15	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R16	1-216-043-00	METAL CHIP 560 5% 1/10W
R17	1-216-049-00	METAL CHIP 1K 5% 1/10W
R18	1-216-097-00	METAL CHIP 100K 5% 1/10W
R19	1-216-033-00	METAL CHIP 220 5% 1/10W
R20	1-216-097-00	METAL CHIP 100K 5% 1/10W
R21	1-216-025-00	METAL CHIP 100 5% 1/10W
R22	1-216-073-00	METAL CHIP 10K 5% 1/10W
R23	1-216-049-00	METAL CHIP 1K 5% 1/10W
R24	1-216-073-00	METAL CHIP 10K 5% 1/10W
R25	1-216-017-00	METAL CHIP 47 5% 1/10W
R26	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R27	1-216-073-00	METAL CHIP 10K 5% 1/10W
R28	1-216-017-00	METAL CHIP 47 5% 1/10W
R29	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R30	1-216-049-00	METAL CHIP 1K 5% 1/10W
R31	1-216-049-00	METAL CHIP 1K 5% 1/10W
R32	1-216-089-00	METAL CHIP 47K 5% 1/10W
R33	1-216-073-00	METAL CHIP 10K 5% 1/10W
R34	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R35	1-216-083-00	METAL CHIP 27K 5% 1/10W
R36	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R37	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R38	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R39	1-216-025-00	METAL CHIP 100 5% 1/10W
R40	1-216-025-00	METAL CHIP 100 5% 1/10W
R41	1-216-025-00	METAL CHIP 100 5% 1/10W
R42	1-216-037-00	METAL CHIP 330 5% 1/10W
R43	1-216-081-00	METAL CHIP 22K 5% 1/10W
R44	1-216-017-00	METAL CHIP 47 5% 1/10W
R45	1-216-089-00	METAL CHIP 47K 5% 1/10W
R46	1-216-073-00	METAL CHIP 10K 5% 1/10W
R47	1-216-089-00	METAL CHIP 47K 5% 1/10W
R48	1-216-073-00	METAL CHIP 10K 5% 1/10W
R49	1-216-133-00	METAL CHIP 3.3M 5% 1/10W
R50	1-216-025-00	METAL CHIP 100 5% 1/10W
R51	1-216-017-00	METAL CHIP 47 5% 1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R52	1-216-073-00	METAL CHIP 10K 5% 1/10W
R53	1-216-081-00	METAL CHIP 22K 5% 1/10W
R54	1-216-748-11	METAL CHIP 39K 5% 1/10W
R56	1-216-103-00	METAL CHIP 180K 5% 1/10W
R57	1-216-049-00	METAL CHIP 1K 5% 1/10W
R58	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R59	1-216-049-00	METAL CHIP 1K 5% 1/10W
R60	1-216-077-00	METAL CHIP 15K 5% 1/10W
R61	1-216-073-00	METAL CHIP 10K 5% 1/10W
R62	1-216-089-00	METAL CHIP 47K 5% 1/10W
R63	1-216-073-00	METAL CHIP 10K 5% 1/10W
R64	1-216-107-00	METAL CHIP 270K 5% 1/10W
R65	1-216-053-00	METAL CHIP 1.5K 5% 1/10W
R66	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R67	1-216-097-00	METAL CHIP 100K 5% 1/10W
R68	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R69	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R70	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R71	1-216-075-00	METAL CHIP 12K 5% 1/10W
R72	1-216-121-00	METAL CHIP 1M 5% 1/10W
R73	1-216-049-00	METAL CHIP 1K 5% 1/10W
R74	1-216-097-00	METAL CHIP 100K 5% 1/10W
R75	1-216-133-00	METAL CHIP 3.3M 5% 1/10W
R76	1-216-089-00	METAL CHIP 47K 5% 1/10W
R77	1-216-105-00	METAL CHIP 220K 5% 1/10W
R78	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R79	1-216-089-00	METAL CHIP 47K 5% 1/10W
R80	1-216-049-00	METAL CHIP 1K 5% 1/10W
R81	1-216-107-00	METAL CHIP 270K 5% 1/10W
R82	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R83	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R84	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R85	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R86	1-216-117-00	METAL CHIP 680K 5% 1/10W
R87	1-216-059-00	METAL CHIP 2.7K 5% 1/10W
R88	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R89	1-216-037-00	METAL CHIP 330 5% 1/10W
R90	1-216-085-00	METAL CHIP 33K 5% 1/10W
R91	1-216-091-00	METAL CHIP 56K 5% 1/10W
R92	1-216-089-00	METAL CHIP 47K 5% 1/10W
R93	1-216-085-00	METAL CHIP 33K 5% 1/10W
R94	1-216-097-00	METAL CHIP 100K 5% 1/10W
R95	1-216-097-00	METAL CHIP 100K 5% 1/10W
R96	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R97	1-216-049-00	METAL CHIP 1K 5% 1/10W
R98	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R99	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R100	1-216-063-00	METAL CHIP 3.9K 5% 1/10W
R101	1-216-049-00	METAL CHIP 1K 5% 1/10W
R102	1-216-077-00	METAL CHIP 15K 5% 1/10W
R103	1-216-077-00	METAL CHIP 15K 5% 1/10W
R104	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R105	1-216-089-00	METAL CHIP 47K 5% 1/10W
R106	1-216-073-00	METAL CHIP 10K 5% 1/10W
R107	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R108	1-216-059-00	METAL CHIP 2.7K 5% 1/10W
R109	1-216-049-00	METAL CHIP 1K 5% 1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R110	1-216-035-00	METAL CHIP	270	5%	1/10W
R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
R112	1-216-089-00	METAL CHIP	47K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-089-00	METAL CHIP	47K	5%	1/10W
R115	1-216-105-00	METAL CHIP	220K	5%	1/10W
R116	1-216-037-00	METAL CHIP	330	5%	1/10W
R117	1-216-085-00	METAL CHIP	33K	5%	1/10W
R118	1-216-089-00	METAL CHIP	47K	5%	1/10W
R119	1-216-097-00	METAL CHIP	100K	5%	1/10W
R120	1-216-093-00	METAL CHIP	68K	5%	1/10W
R121	1-216-099-00	METAL CHIP	120K	5%	1/10W
R122	1-216-085-00	METAL CHIP	33K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-029-00	METAL CHIP	150	5%	1/10W
R125	1-216-037-00	METAL CHIP	330	5%	1/10W
R126	1-216-037-00	METAL CHIP	330	5%	1/10W
R127	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-073-00	METAL CHIP	10K	5%	1/10W
R203	1-216-081-00	METAL CHIP	22K	5%	1/10W
R204	1-216-081-00	METAL CHIP	22K	5%	1/10W
R205	1-216-097-00	METAL CHIP	100K	5%	1/10W
R206	1-216-089-00	METAL CHIP	47K	5%	1/10W
R207	1-216-089-00	METAL CHIP	47K	5%	1/10W
R208	1-216-097-00	METAL CHIP	100K	5%	1/10W
R209	1-216-041-00	METAL CHIP	470	5%	1/10W
R210	1-216-049-00	METAL CHIP	1K	5%	1/10W
R211	1-216-079-00	METAL CHIP	18K	5%	1/10W
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W
R213	1-216-045-00	METAL CHIP	680	5%	1/10W
R214	1-216-085-00	METAL CHIP	33K	5%	1/10W
R215	1-216-021-00	METAL CHIP	68	5%	1/10W
R216	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R217	1-216-081-00	METAL CHIP	22K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-081-00	METAL CHIP	22K	5%	1/10W
R221	1-216-081-00	METAL CHIP	22K	5%	1/10W
R222	1-216-081-00	METAL CHIP	22K	5%	1/10W
R223	1-216-081-00	METAL CHIP	22K	5%	1/10W
R224	1-216-097-00	METAL CHIP	100K	5%	1/10W
R225	1-216-073-00	METAL CHIP	10K	5%	1/10W
R226	1-216-081-00	METAL CHIP	22K	5%	1/10W
R227	1-216-081-00	METAL CHIP	22K	5%	1/10W
R228	1-216-089-00	METAL CHIP	47K	5%	1/10W
R229	1-216-091-00	METAL CHIP	56K	5%	1/10W
R230	1-216-089-00	METAL CHIP	47K	5%	1/10W
R231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-049-00	METAL CHIP	1K	5%	1/10W
R233	1-216-097-00	METAL CHIP	100K	5%	1/10W
R234	1-216-097-00	METAL CHIP	100K	5%	1/10W
R235	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R236	1-216-081-00	METAL CHIP	22K	5%	1/10W
R237	1-216-049-00	METAL CHIP	1K	5%	1/10W
R238	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R239	1-216-073-00	METAL CHIP	10K	5%	1/10W
R240	1-216-049-00	METAL CHIP	1K	5%	1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R241	1-216-113-00	METAL CHIP	470K	5%	1/10W
R242	1-216-097-00	METAL CHIP	100K	5%	1/10W
R243	1-216-097-00	METAL CHIP	100K	5%	1/10W
R244	1-216-005-00	METAL CHIP	15	5%	1/10W
R245	1-216-049-00	METAL CHIP	1K	5%	1/10W
R246	1-216-049-00	METAL CHIP	1K	5%	1/10W
R247	1-216-049-00	METAL CHIP	1K	5%	1/10W
R248	1-216-097-00	METAL CHIP	100K	5%	1/10W
R249	1-216-097-00	METAL CHIP	100K	5%	1/10W
R250	1-216-025-00	METAL CHIP	100	5%	1/10W
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R252	1-216-031-00	METAL CHIP	180	5%	1/10W
R253	1-216-013-00	METAL CHIP	33	5%	1/10W
R254	1-216-017-00	METAL CHIP	47	5%	1/10W
R255	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R256	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R257	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R258	1-216-097-00	METAL CHIP	100K	5%	1/10W
R259	1-216-099-00	METAL CHIP	120K	5%	1/10W
R260	1-216-033-00	METAL CHIP	220	5%	1/10W
R261	1-216-073-00	METAL CHIP	10K	5%	1/10W
R262	1-216-031-00	METAL CHIP	180	5%	1/10W
R263	1-216-021-00	METAL CHIP	68	5%	1/10W
R264	1-216-017-00	METAL CHIP	47	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-049-00	METAL CHIP	1K	5%	1/10W
R303	1-216-097-00	METAL CHIP	100K	5%	1/10W
R304	1-216-097-00	(ICF-PRO80)...METAL CHIP	100K	5%	1/10W
R305	1-216-049-00	METAL CHIP	1K	5%	1/10W
R306	1-216-049-00	METAL CHIP	1K	5%	1/10W
R307	1-216-049-00	METAL CHIP	1K	5%	1/10W
R308	1-216-097-00	METAL CHIP	100K	5%	1/10W
R309	1-216-097-00	METAL CHIP	100K	5%	1/10W
R310	1-216-097-00	METAL CHIP	100K	5%	1/10W
R311	1-216-049-00	(ICF-PRO80)...METAL CHIP	1K	5%	1/10W
R312	1-216-049-00	METAL CHIP	1K	5%	1/10W
R313	1-216-097-00	METAL CHIP	100K	5%	1/10W
R314	1-216-049-00	METAL CHIP	1K	5%	1/10W
R315	1-216-099-00	METAL CHIP	120K	5%	1/10W
R316	1-216-037-00	METAL CHIP	330	5%	1/10W
R317	1-216-037-00	METAL CHIP	330	5%	1/10W
R318	1-216-017-00	METAL CHIP	47	5%	1/10W
R319	1-216-049-00	METAL CHIP	1K	5%	1/10W
R320	1-216-049-00	METAL CHIP	1K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
R322	1-216-049-00	METAL CHIP	1K	5%	1/10W
R323	1-216-049-00	METAL CHIP	1K	5%	1/10W
R324	1-216-049-00	METAL CHIP	1K	5%	1/10W
R325	1-216-049-00	METAL CHIP	1K	5%	1/10W
R326	1-216-097-00	METAL CHIP	100K	5%	1/10W
R327	1-216-097-00	METAL CHIP	100K	5%	1/10W
R328	1-216-097-00	METAL CHIP	100K	5%	1/10W
R329	1-216-097-00	METAL CHIP	100K	5%	1/10W
R330	1-216-097-00	METAL CHIP	100K	5%	1/10W
R331	1-216-049-00	METAL CHIP	1K	5%	1/10W
R332	1-216-049-00	METAL CHIP	1K	5%	1/10W
R334	1-216-049-00	METAL CHIP	1K	5%	1/10W
R335	1-216-049-00	METAL CHIP	1K	5%	1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R336	1-216-049-00	METAL CHIP	1K	5%	1/10W
R337	1-216-049-00	METAL CHIP	1K	5%	1/10W
R338	1-216-049-00	METAL CHIP	1K	5%	1/10W
R339	1-216-049-00	METAL CHIP	1K	5%	1/10W
R340	1-216-049-00	METAL CHIP	1K	5%	1/10W
R341	1-216-049-00	METAL CHIP	1K	5%	1/10W
R342	1-216-049-00	METAL CHIP	1K	5%	1/10W
R343	1-216-049-00	METAL CHIP	1K	5%	1/10W
R344	1-216-049-00	METAL CHIP	1K	5%	1/10W
R345	1-216-049-00	METAL CHIP	1K	5%	1/10W
R346	1-216-097-00	METAL CHIP	100K	5%	1/10W
R347	1-216-085-00	METAL CHIP	33K	5%	1/10W
R348	1-216-121-00	METAL CHIP	1M	5%	1/10W
R349	1-216-121-00	METAL CHIP	1M	5%	1/10W
R350	1-216-121-00	METAL CHIP	1M	5%	1/10W
R351	1-216-049-00	METAL CHIP	1K	5%	1/10W
R352	1-216-049-00	METAL CHIP	1K	5%	1/10W
R353	1-216-097-00	METAL CHIP	100K	5%	1/10W
R354	1-216-081-00	METAL CHIP	22K	5%	1/10W
R355	1-216-049-00	METAL CHIP	1K	5%	1/10W
R356	1-216-097-00	METAL CHIP	100K	5%	1/10W
R357	1-216-099-00	METAL CHIP	120K	5%	1/10W
R358	1-216-113-00	METAL CHIP	470K	5%	1/10W
R359	1-216-073-00	METAL CHIP	10K	5%	1/10W
R360	1-216-097-00	METAL CHIP	100K	5%	1/10W
R361	1-216-101-00	METAL CHIP	150K	5%	1/10W
R362	1-216-085-00	METAL CHIP	33K	5%	1/10W
R363	1-216-017-00	METAL CHIP	47	5%	1/10W
R364	1-216-017-00	METAL CHIP	47	5%	1/10W
R365	1-216-017-00	METAL CHIP	47	5%	1/10W
R366	1-216-097-00	METAL CHIP	100K	5%	1/10W
R367	1-216-097-00	METAL CHIP	100K	5%	1/10W
R368	1-216-025-00	METAL CHIP	100	5%	1/10W
R369	1-216-049-00	METAL CHIP	1K	5%	1/10W
R370	1-216-049-00	METAL CHIP	1K	5%	1/10W
R501	1-216-095-00	METAL CHIP	82K	5%	1/10W
R502	1-216-049-00	METAL CHIP	1K	5%	1/10W
R503	1-216-089-00	METAL CHIP	47K	5%	1/10W
R504	1-216-091-00	METAL CHIP	56K	5%	1/10W
R701	1-216-097-00	{ICF-PRO80}...METAL CHIP	100K	5%	1/10W
R702	1-216-018-00	{ICF-PRO80}...METAL CHIP	51	5%	1/10W
R703	1-216-056-00	{ICF-PRO80}...METAL CHIP	2K	5%	1/10W
R704	1-216-081-00	{ICF-PRO80}...METAL CHIP	22K	5%	1/10W
R705	1-216-029-00	{ICF-PRO80}...METAL CHIP	150	5%	1/10W
R706	1-216-081-00	{ICF-PRO80}...METAL CHIP	22K	5%	1/10W
R707	1-216-025-00	{ICF-PRO80}...METAL CHIP	100	5%	1/10W
R708	1-216-085-00	{ICF-PRO80}...METAL CHIP	33K	5%	1/10W
R709	1-216-025-00	{ICF-PRO80}...METAL CHIP	100	5%	1/10W
R710	1-216-049-00	{ICF-PRO80}...METAL CHIP	1K	5%	1/10W
R711	1-216-081-00	{ICF-PRO80}...METAL CHIP	22K	5%	1/10W
R712	1-216-049-00	{ICF-PRO80}...METAL CHIP	1K	5%	1/10W
R713	1-216-065-00	{ICF-PRO80}...METAL CHIP	4,7K	5%	1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RT1	1-237-406-21	RES, ADJ, METAL GLAZE 22K
RY101	1-230-538-11	RES, VAR, CARBON (WITH SW) 50K(SQL)
RY201	1-237-670-11	RES, VAR, CARBON (WITH SW) 20K (VOLUME, TONE)
RY202	1-237-651-11	RES, VAR, CARBON (WITH SW) 100K (FINE/SSB, PAGE)
S203	1-554-957-11	SWITCH, PUSH (1 KEY)(POWER)
S301	1-554-956-11	SWITCH, LEAF (LIGHT)
S302	1-553-977-31	SWITCH, SLIDE (WM CH STEP)
S303	1-553-977-31	{ICF-PRO80}...SWITCH, SLIDE (FREQ DISPLAY)
S304	1-554-371-00	SWITCH, TACT (RESET)
S701	1-554-903-21	{ICF-PRO80}...SWITCH, SLIDE (ATTENUATOR)
S702	1-554-903-21	{ICF-PRO80}...SWITCH, SLIDE (FILTER)
SP1	1-503-374-11	SPEAKER
T1	1-459-718-11	COIL (WITH CORE)
T2	1-459-719-11	COIL (WITH CORE)
T3	1-404-729-11	TRANSFORMER, 1F
T4	1-426-309-11	TRANSFORMER, HIGH FREQUENCY
T5	1-426-311-11	TRANSFORMER, HIGH FREQUENCY
T6	1-426-308-11	TRANSFORMER, HIGH FREQUENCY
T7	1-426-310-11	TRANSFORMER, HIGH FREQUENCY
T8	1-404-731-11	TRANSFORMER, 1F
T9	1-404-730-11	TRANSFORMER, 1F
T10	1-404-727-11	TRANSFORMER, 1F
T11	1-404-648-11	TRANSFORMER, 1F
T12	1-404-726-11	TRANSFORMER, 1F
T501	1-406-231-11	COIL (OSC)
T701	1-426-312-11	{ICF-PRO80}...TRANSFORMER, HIGH FREQUENCY
T702	1-406-236-11	{ICF-PRO80}...COIL (OSC)
X1	1-567-841-11	VIBRATOR, CERAMIC
X2	1-567-843-11	VIBRATOR, CRYSTAL
X201	1-567-847-11	VIBRATOR, CRYSTAL
X701	1-567-871-11	{ICF-PRO80}...VIBRATOR, CRYSTAL
XF1	1-567-842-11	FILTER, CRYSTAL
ACCESSORY & PACKING MATERIAL		
Part No. Description		
1-501-377-11	ANTENNA, TELESCOPIC	
1-504-059-11	MAGNETIC EARPHONE(ME-20H)	
1-566-456-11	ADAPTOR, PLUG (TNC-BNC)	
*3-701-616-00	BAG, POLYETHYLENE	
3-890-830-00	BAG, POLYETHYLENE	
*3-701-617-00	{ICF-PRO80}...BAG, POLYETHYLENE, STANDARD	
3-887-285-06	{ICF-PRO70:Saudi Arabia}...GUIDE BOOK, RADIO WAVE	
3-893-708-01	BELT, CARRYING	
3-893-761-01	{ICF-PRO70:E,ICF-PRO80:US,Canadian,E}...SPACER	
3-893-771-01	HOLDER, TELESCOPIC ANTENNA	
3-893-802-03	{ICF-PRO70:E,AEP,ICF-PRO80}...BOOK, GUIDE, WAVE	
*3-898-203-01	{ICF-PRO70}...LABEL, SWITCH	
*3-898-204-01	{ICF-PRO80:US,Canadian}...LABEL, SWITCH	
*3-898-205-01	{ICF-PRO70}...LABEL, MODEL NUMBER (E)	
3-898-209-01	CUSHION	
3-898-240-01	CASE, CARRYING	
3-898-206-01	{ICF-PRO70}...CARTON, INDIVIDUAL	
3-898-210-01	{ICF-PRO80}...CARTON, INDIVIDUAL	
3-990-095-11	{ICF-PRO70:E,AEP,ICF-PRO80}...MANUAL, INSTRUCTION	
3-990-095-41	{ICF-PRO70:AEP}...MANUAL, INSTRUCTION	
3-990-095-51	{ICF-PRO70:Saudi Arabia}...MANUAL, INSTRUCTION	