

# ICB-700

*E Model*

*Serial No. 24001 and later*



## TRANSCEIVER

### SPECIFICATIONS

#### GENERAL

<b>Frequency:</b>	CH-1 27.085 MHz CH-2 27.035 MHz
<b>Communication System:</b>	Push-to-talk system (one-way system)
<b>Semiconductors:</b>	1 IC, 1 FET, 13 transistors, 6 diodes
<b>Antenna:</b>	Telescopic antenna 1,893 mm (6'2")
<b>Speaker:</b>	Permanent dynamic speaker 7.7 cm dia (3" dia), 8 $\Omega$
<b>Microphone:</b>	Dynamic microphone, 200 $\Omega$
<b>Power Requirement:</b>	DC 12V flashlight battery size "D" 8 pcs Car battery DC 12V by using SONY car battery cord DCC-6 AC 120V 60 Hz by using SONY AC adaptor AC-12
<b>Covering Distance:</b>	In cities 1 ~ 2 km, 0.5 ~ 1 miles In the suburbs 6 ~ 8 km, 3.5 ~ 5 miles In-sight areas 80 ~ 160 km, 50 ~ 100 miles
<b>Dimensions:</b>	196 (w) x 280 (h) x 86 (d) mm 7 $\frac{3}{4}$ (w) x 11 (h) x 3 $\frac{3}{8}$ (d) inches
<b>Weight:</b>	3,270 g, 7 lb 3 oz (including batteries)

#### TRANSMITTER SECTION

<b>Circuit:</b>	Crystal controlled oscillator
<b>Frequency Tolerance:</b>	$\pm 0.005$ %
<b>Output Power:</b>	500 mW
<b>Modulation:</b>	Simultaneous collector modulation at oscillator and final stage
<b>Modulation Sensitivity:</b>	63 dB
<b>Current Drain:</b>	120 mA at no modulation

#### RECEIVER SECTION

<b>Circuit:</b>	Superheterodyne using crystal controlled local oscillator
<b>Intermediate Frequency:</b>	455 kHz
<b>Maximum Sensitivity at 50 mW output:</b>	-6 dB (0.5 $\mu$ V)
<b>Signal-to-Noise Ratio:</b>	45 dB (at 44 dB input)
<b>Selectivity:</b>	55 dB at 27.085 MHz $\pm 8$ kHz off-resonance
<b>Maximum Power Output:</b>	900 mW
<b>Current Drain:</b>	23 mA at zero signal 25 mA at stand-by position

**SONY**<sup>®</sup>  
**SERVICE MANUAL**

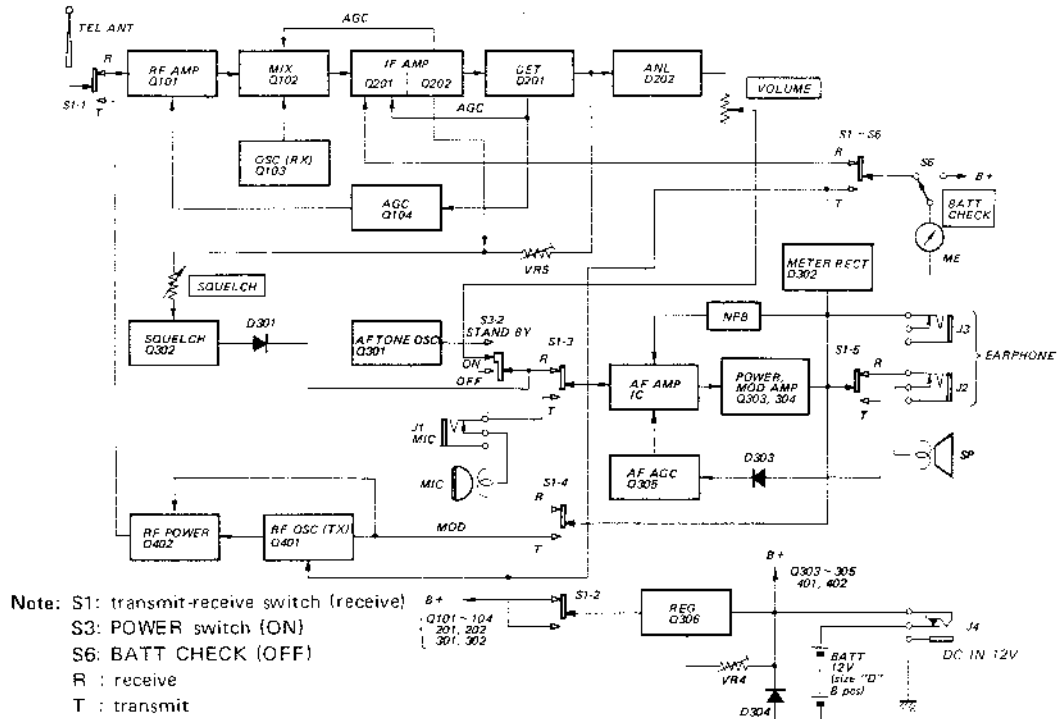
**TABLE OF CONTENTS**

<u>Section</u>	<u>Title</u>	<u>Page</u>
	Specifications .....	1
<b>1. OUTLINE</b>		
1-1.	Block Diagram .....	3
1-2.	External View .....	3
1-3.	Internal View .....	4
1-4.	Stand-By Circuit .....	5
<b>2. DISASSEMBLY</b>		
2-1.	Case Removal .....	6
2-2.	Telescopic Antenna Removal .....	6
2-3.	Top Panel Removal .....	6
2-4.	Printed Circuit Board Removal .....	7
<b>3. ADJUSTMENTS</b>		
3-1.	B+ Voltage Adjustment .....	8
3-2.	Bias Adjustment .....	8
3-3.	I-f Alignment .....	9
3-4.	Sensitivity Adjustment .....	9
3-5.	ANL Adjustment .....	10
3-6.	SQUELCH Level Adjustment .....	10
3-7.	Transmitter Output Power Adjustment .....	11
3-8.	Stand By Audio Tone Volume Adjustment .....	12
3-9.	Loading Coil Adjustment .....	12
<b>4. DIAGRAMS</b>		
4-1.	Schematic Diagram .....	13
4-2.	Mounting Diagram – Conductor Side – .....	15
4-3.	Mounting Diagram – Component Side – .....	17
<b>5. EXPLODED VIEWS AND PACKING</b>		
5-1.	Exploded View (1) .....	19
5-2.	Exploded View (2) .....	21
<b>6. ELECTRICAL PARTS LIST</b>		24
<b>7. HARDWARE</b>		26

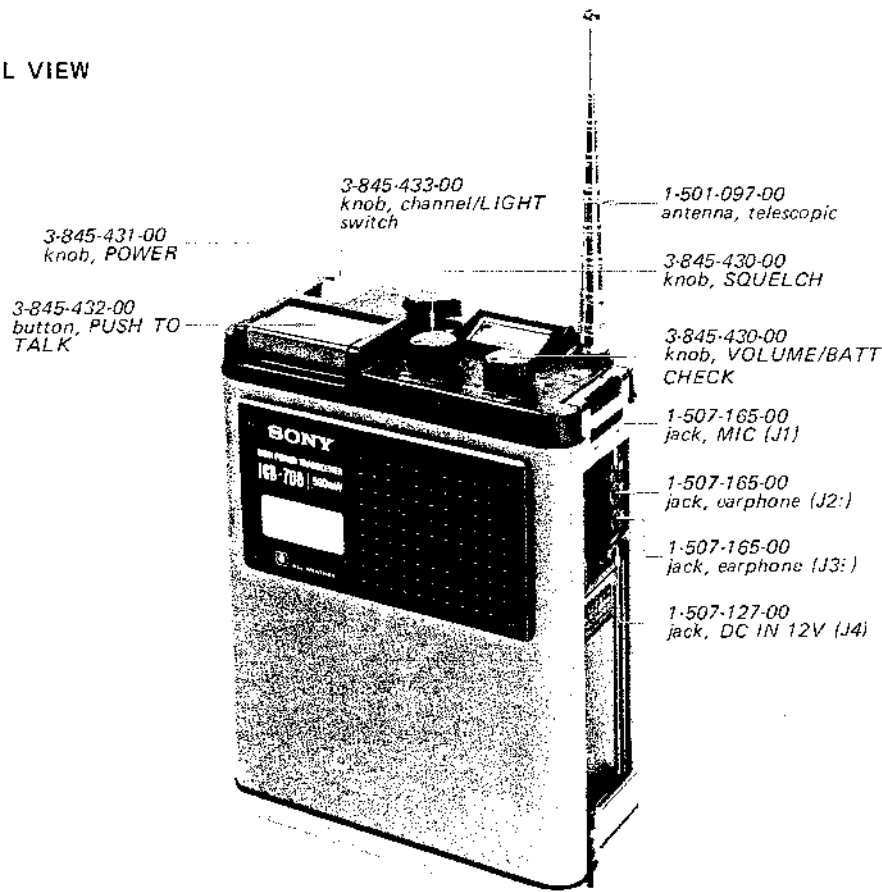
*When ordering replacement parts, use PART NUMBERS listed in Parts Lists or shown in EXPLODED VIEWS. Parts List reference numbers should not be used.*

## SECTION 1 OUTLINE

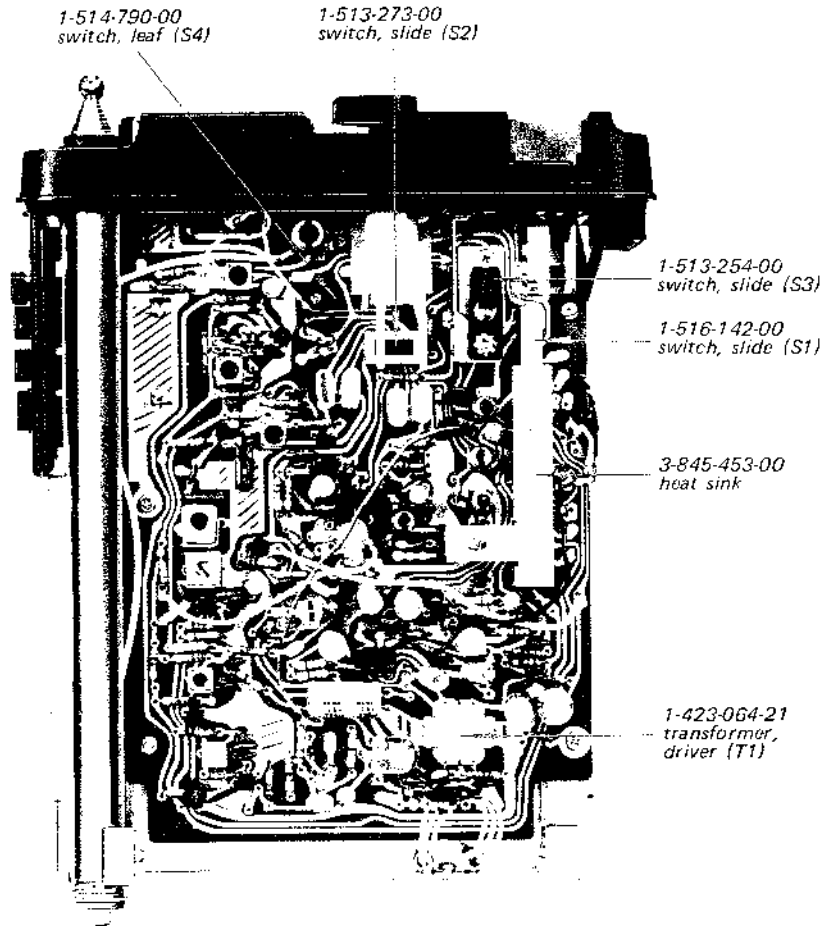
### 1-1. BLOCK DIAGRAM



### 1-2. EXTERNAL VIEW



1-3. INTERNAL VIEW



1-4. STAND-BY CIRCUIT

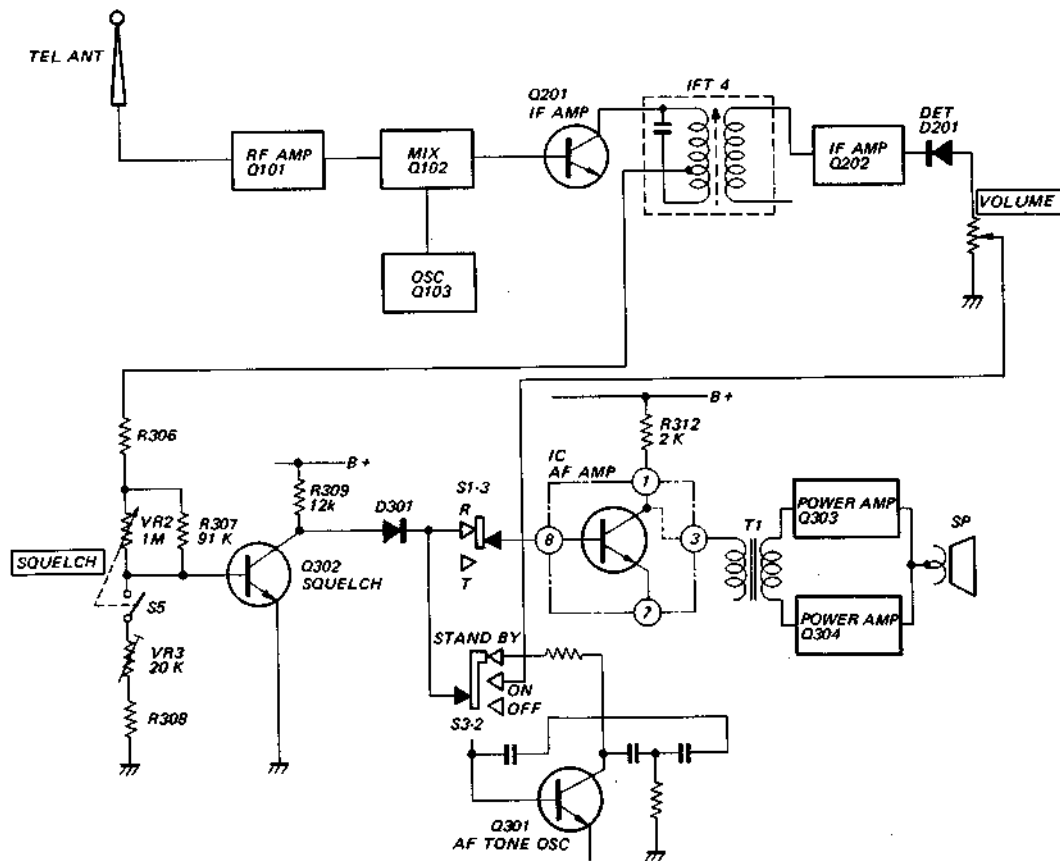
ICB-700 uses STAND BY circuit consisting of SQUELCH and STAND BY oscillator circuits.

The STAND BY circuit operates when the unit receives a signal of higher level than the level set with the SQUELCH control knob. When such a signal is received, a STAND BY oscillator signal of 300 ~ 800Hz is heard through the speaker.

When a signal is received and transferred to the Q201 collector, the Q302 collector current increases and flows through R309. The voltage drop across R309 decreases the collector voltage of Q302. When input signal level is higher than the level set with the

SQUELCH control knob, D301 is reverse-biased and turns off. The STAND BY oscillator signal is amplified through IC and power amplifier and is heard through the speaker.

When the input signal level is lower, the Q302 collector current decreases and D301 is forward-biased. Consequently the collector current of the transistor in the IC increases and the collector voltage drops to make the voltage between collector and emitter almost zero. So the IC does not operate as an amplifier and the STAND BY oscillator signal is not heard through the speaker.



## SECTION 2 DISASSEMBLY

### 2-1. CASE REMOVAL

Remove case in the numerical order shown below.

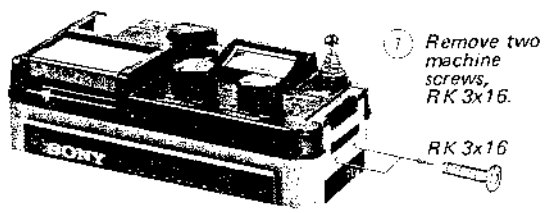


Fig. 2-1.

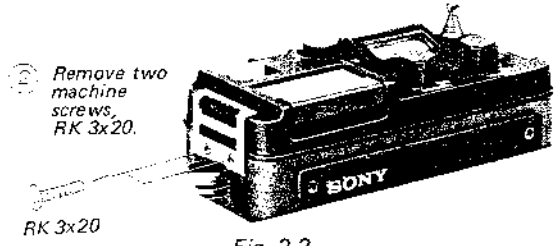


Fig. 2-2.

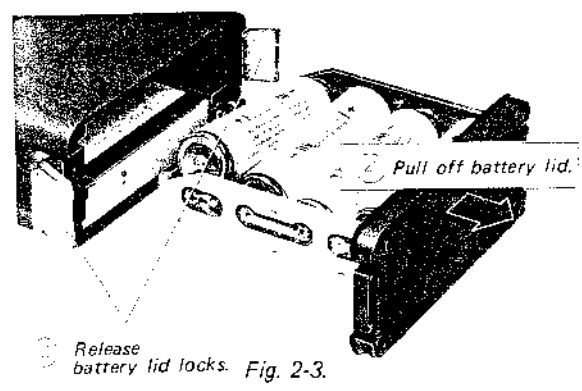


Fig. 2-3.

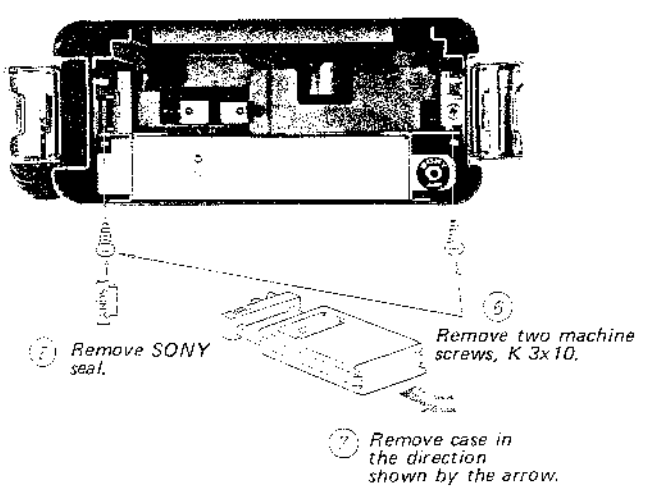


Fig. 2-4.

### 2-2. TELESCOPIC ANTENNA REMOVAL

Remove telescopic antenna in the numerical order shown below.

- ① Remove case as outlined in 2-1 above.
- ② Remove water release screw from the bottom of the telescopic antenna as shown in Fig. 2-5 below.
- ③ Remove telescopic antenna upwards through telescopic antenna sleeve.

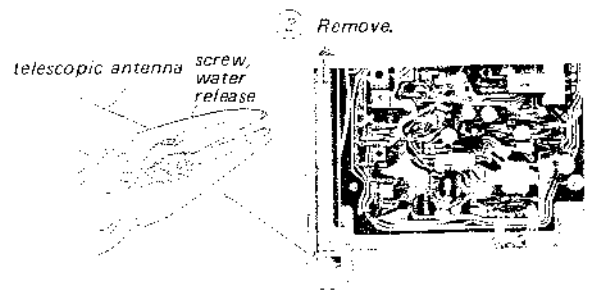


Fig. 2-5.

### 2-3. TOP PANEL REMOVAL

Remove top panel in the numerical order shown below.

- ① Remove case as outlined in 2-1 above.

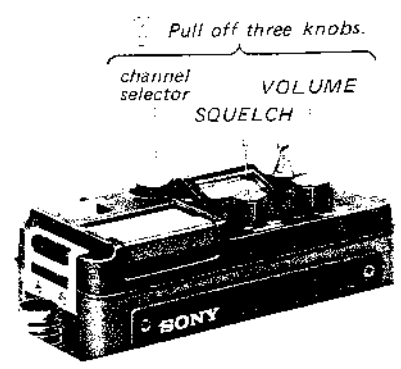
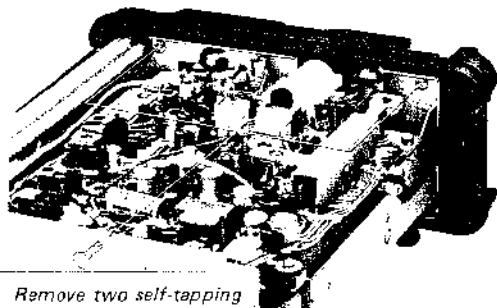


Fig. 2-6.

2-4. PRINTED CIRCUIT BOARD REMOVAL

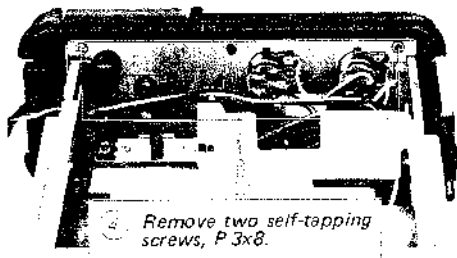
Remove printed circuit board in the numerical order shown below.

1 Remove case as outlined in 2-1 on page 6.



3 Remove two self-tapping screws, P 3x8.

Fig. 2-7.

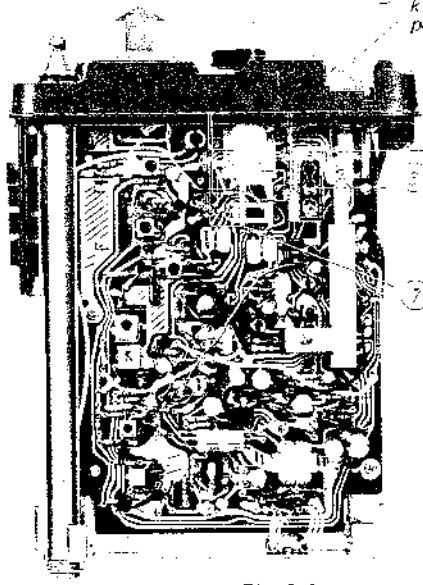


4 Remove two self-tapping screws, P 3x8.

Fig. 2-8.

5 Remove top panel in the direction shown by the arrow.

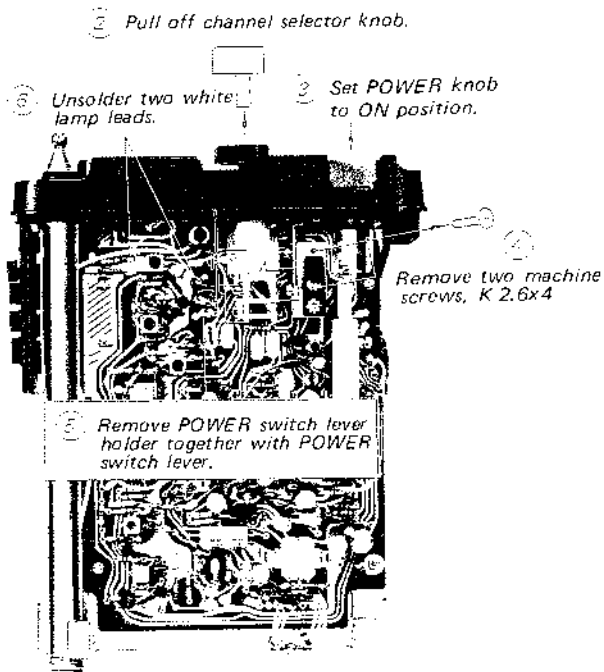
Set POWER knob to ON position.



6 Remove two machine screws, K 2.6x4.

7 Remove POWER switch lever holder together with POWER switch lever.

Fig. 2-9.



8 Pull off channel selector knob.

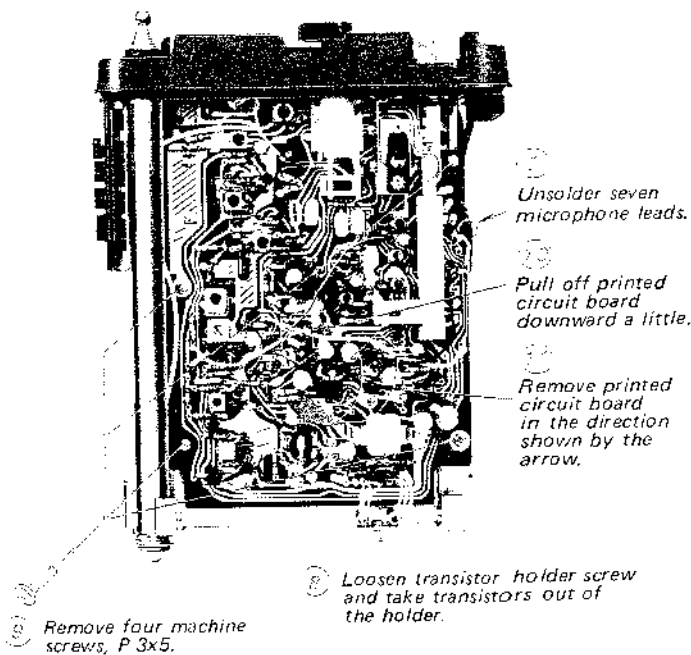
9 Unsolder two white lamp leads.

2 Set POWER knob to ON position.

Remove two machine screws, K 2.6x4

5 Remove POWER switch lever holder together with POWER switch lever.

Fig. 2-10.



10 Unsolder seven microphone leads.

11 Pull off printed circuit board downward a little.

12 Remove printed circuit board in the direction shown by the arrow.

13 Remove four machine screws, P 3x5.

14 Loosen transistor holder screw and take transistors out of the holder.

Fig. 2-11.

## SECTION 3 ADJUSTMENTS

### 1. B+ VOLTAGE ADJUSTMENT

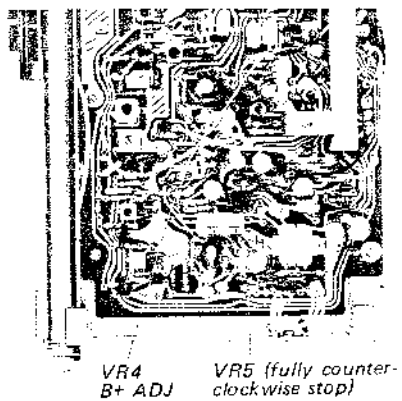
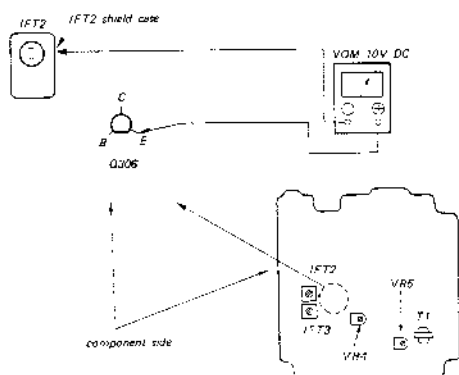
**Settings:**

POWER switch: ON  
 VOLUME control: MIN  
 PUSH TO TALK button: released  
 power source: 12 V DC

**Procedure:**

Mode: Receive

1. Set the ANL control VR5 to fully counterclockwise stop.
2. Adjust B+ ADJ control VR4 for 6.5V VOM reading.



### 2. BIAS ADJUSTMENT

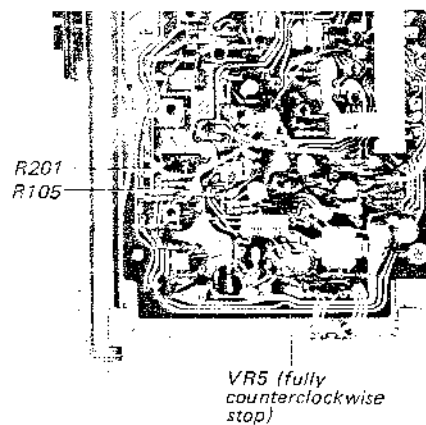
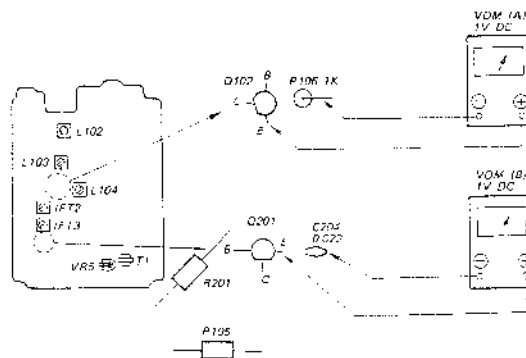
**Settings:**

POWER SWITCH: ON  
 VOLUME control: MIN  
 SQUELCH control: OFF  
 PUSH TO TALK button: released  
 power source: 12V DC

**Procedure:**

Mode: Receive

1. Set the ANL control VR5 to fully counterclockwise stop.
2. Select R105 (10k ~ 39k) for 0.35 V VOM (A) reading. Voltage rises as the value of R105 decreases.
3. Select R201 (180 kΩ ~ 240 kΩ) for 0.4V VOM (B) reading. Voltage rises as the value of R201 increases.



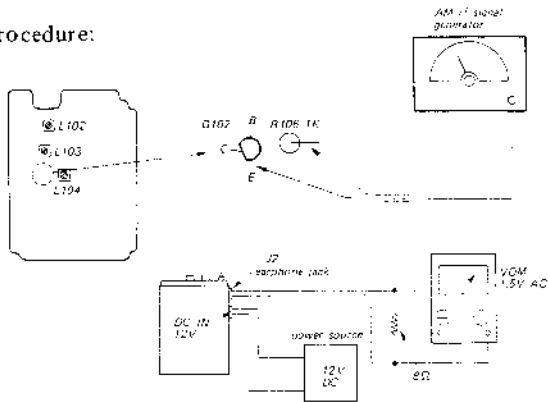


### 3. IF ALIGNMENT

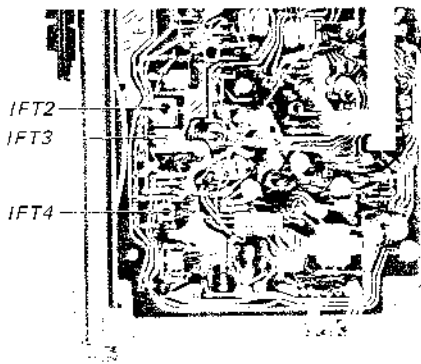
**Settings:**

- POWER switch: ON
- VOLUME control: MAX
- SQUELCH control: OFF
- PUSH TO TALK button: released
- channel selector: CH-1
- power source: 12 V DC
- signal source: AM rf signal generator (455 kHz, 400 Hz, 30% modulation)

**Procedure:**



Adjust IFT 2 ~ 4 for maximum VOM reading.

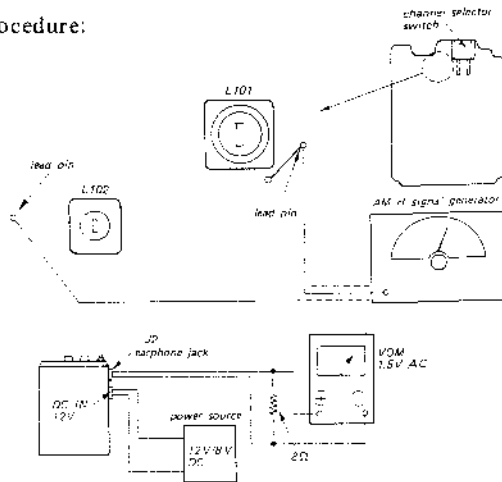


### 4. SENSITIVITY ADJUSTMENT

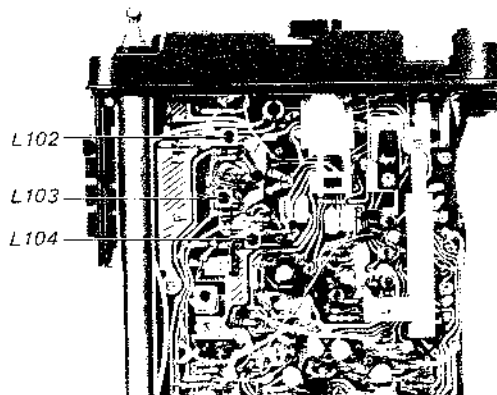
**Settings:**

- POWER switch: ON
- VOLUME control: MAX
- SQUELCH control: OFF
- PUSH TO TALK button: released
- channel selector: CH-1
- power source: 12 V/8 V
- signal source: AM rf signal generator (27.085 MHz, 400 Hz, 30% modulation, attenuator usable lowest possible)

**Procedure:**



1. Adjust L102 ~ 104 for maximum VOM reading with power source of 12V DC.
2. Reduce power source voltage from 12V to 8V DC and check that VOM still deflects. If not, adjust L104 to obtain VOM deflection.

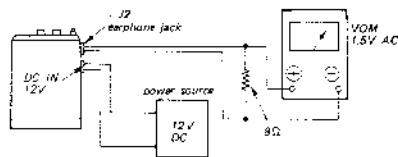
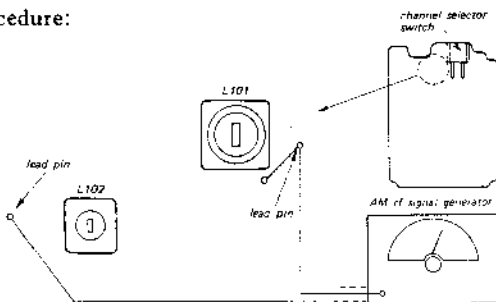


### 5. ANL ADJUSTMENT

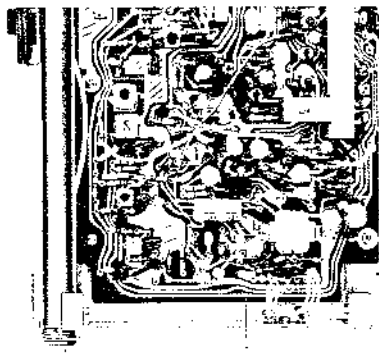
**Settings:**

POWER switch: ON  
 SQUELCH control: OFF  
 PUSH TO TALK button: released  
 channel selector: select channel on which no station is coming in  
 power source: 12V DC  
 signal source: AM rf signal generator (27.085 MHz or 27.035 MHz, 30% modulation, attenuator maximum)

**Procedure:**



1. Vary VOLUME control for 0.63V (50 mW output) VOM reading.
2. Adjust and set VR5 for 0.5V (2dB down from 0.63V) VOM reading.



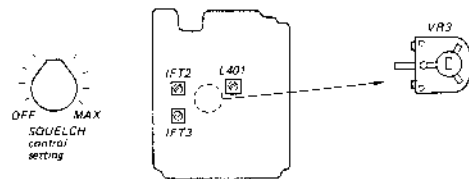
VR5

### 6. SQUELCH LEVEL ADJUSTMENT

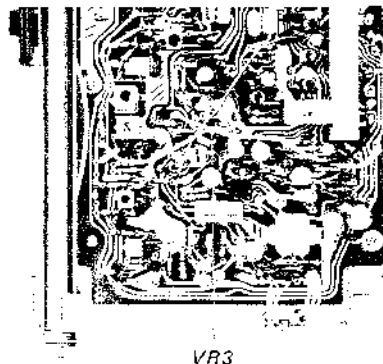
**Settings:**

POWER switch: ON  
 VOLUME control: MAX  
 SQUELCH control: mechanical mid position  
 PUSH TO TALK button: released  
 channel selector: select channel on which no station is coming in  
 telescopic antenna: fully extended  
 power source: 12V DC

**Procedure:**



Adjust and set VR3 (SQUELCH LEVEL) to the point at which receiver noise disappears.



VR3

### 7. TRANSMITTER OUTPUT POWER ADJUSTMENT

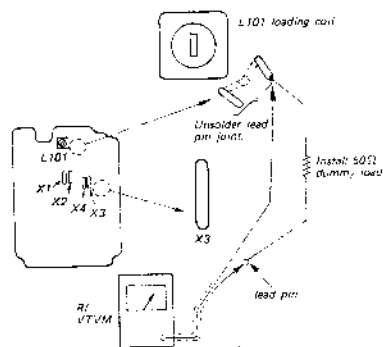
**Settings:**

POWER switch: ON  
 PUSH TO TALK button: pressed  
 channel selector: CH-1, CH-2  
 power source: 12V/8V DC

**Procedure:**

**Preparation**

1. Install a shortening plug in MIC jack to disable modulator.
2. Unsolder lead pin joint and install a 50 Ω dummy load between lead pins as shown below.



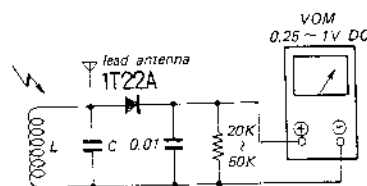
3. Set channel selector to CH-1.

**A. Rf VTVM Method**

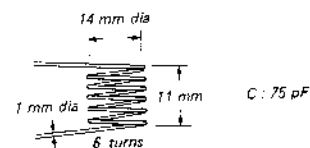
1. Press PUSH TO TALK button. Adjust L402 ~ 404 for maximum rf VTVM reading.
2. Adjust L401 for 5 V rf VTVM reading. If 5 V can not be obtained, select R403 (15 ~ 30 Ω) to obtain 5V.
3. Set channel selector to CH-2 and ensure that the change of rf VTVM reading is negligible.
4. Remove 50 Ω dummy load and reconnect unsoldered lead pins.
5. Fix cores of L401 ~ 404 with wax.

**B. Absorption Type Frequency Meter Method**

1. Prepare a 27MHz absorption type frequency meter as shown.

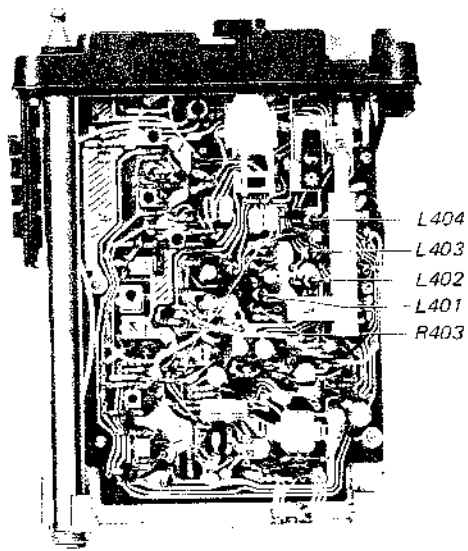


L.C Value:



2. Press PUSH TO TALK button and bring the frequency meter close to the 50 Ω dummy load about 1 cm apart so that VOM deflects half scale.
3. Adjust L401 ~ 404 for maximum VOM reading.
4. Decrease power source voltage to 8V DC and ensure that VOM still deflects.
5. If VOM deflection falls, adjust L401 to obtain VOM deflection.
6. Set channel selector to CH-2 and ensure that the VOM deflection changes are negligible when compared with those obtained on CH-1, while changing power source voltage from 12V to 8V DC.
7. Remove 50 Ω dummy load and reconnect unsoldered lead pins.
8. Fix cores of L401 ~ 404 with wax.

Adjustment location:

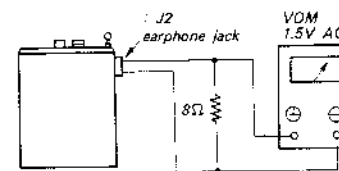


### 8. STAND-BY AUDIO TONE VOLUME ADJUSTMENT

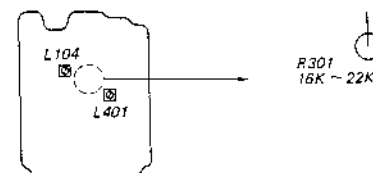
**Settings:**

POWER switch: STAND BY  
 SQUELCH control: OFF  
 PUSH TO TALK button: released  
 power source: 12V DC

**Procedure:**



Select R301 (16 kΩ ~ 22 kΩ) for 0.9V (100 mW output) VOM reading.

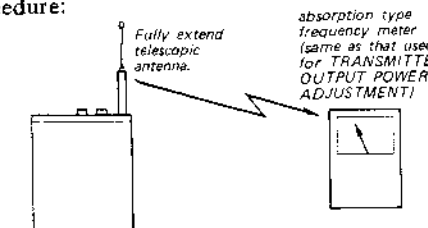


### 9. LOADING COIL ADJUSTMENT

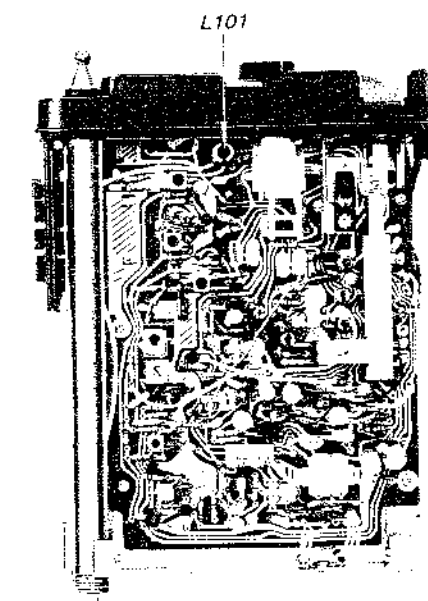
**Settings:**

POWER switch: ON  
 PUSH TO TALK button: pressed  
 channel selector: CH-1  
 telescopic antenna: fully extended  
 power source: 12V DC

**Procedure:**



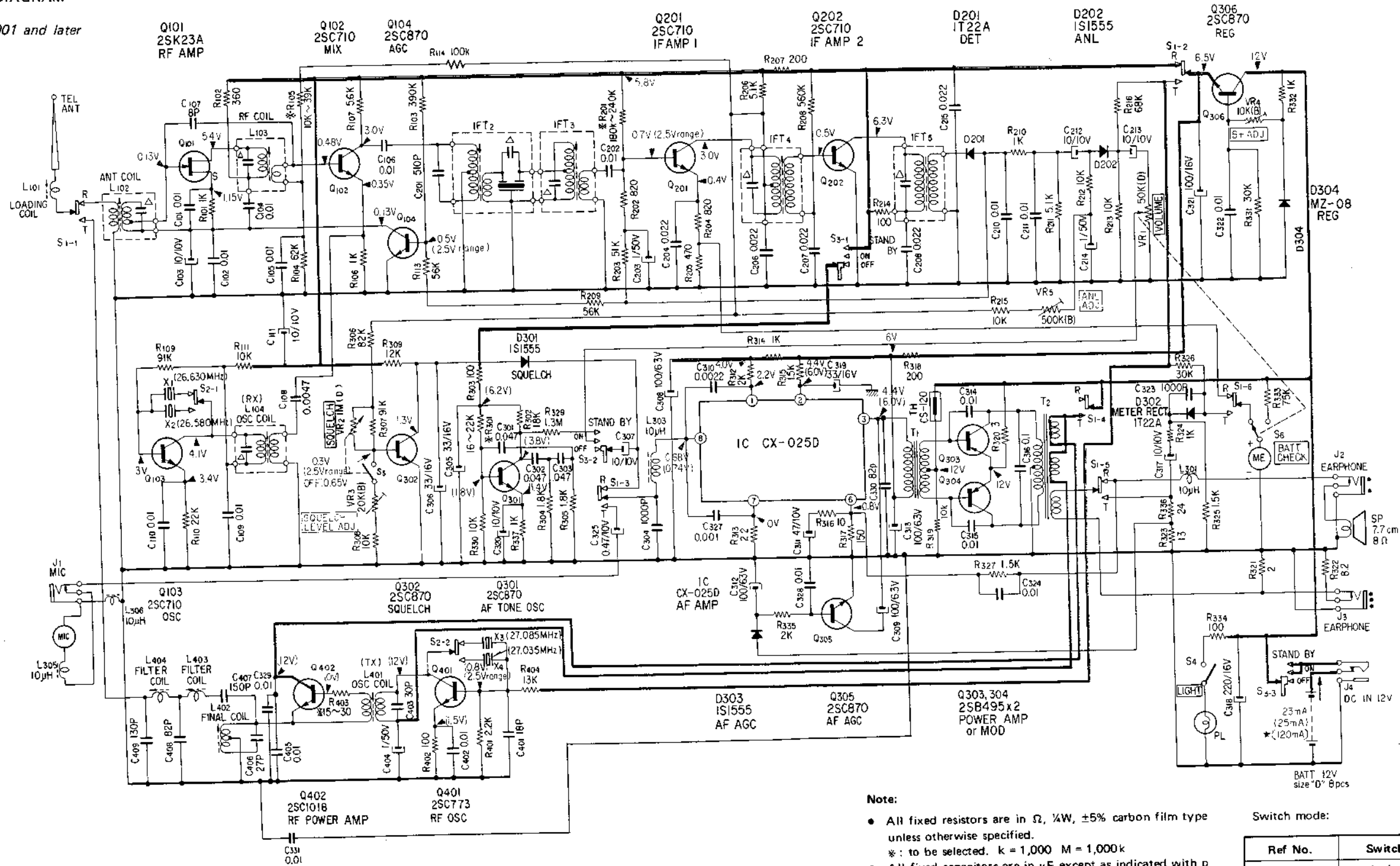
1. Install a shortening plug in MIC jack to disable modulator.
2. Press PUSH TO TALK button.
3. Adjust L101 for maximum VOM reading.
4. Fix core of L101 with wax.



SECTION 4  
DIAGRAMS

4-1. SCHEMATIC DIAGRAM

Serial No. 24001 and later



Note:

- All fixed resistors are in  $\Omega$ ,  $\frac{1}{4}W$ ,  $\pm 5\%$  carbon film type unless otherwise specified.
- \* : to be selected. k = 1,000 M = 1,000k
- All fixed capacitors are in  $\mu F$  except as indicated with p which means  $\mu F$ .  $\Delta$ : included in coils and transformers.
- All voltages and currents are taken with a 20 k $\Omega/V$  DC VOM with reference to ground pattern with no receiving signal, no modulation. [ ] : transmitting mode. ( ) : STAND BY mode. \* : taken with telescopic antenna fully extended. No mark: receiving mode.
- : B+ Line

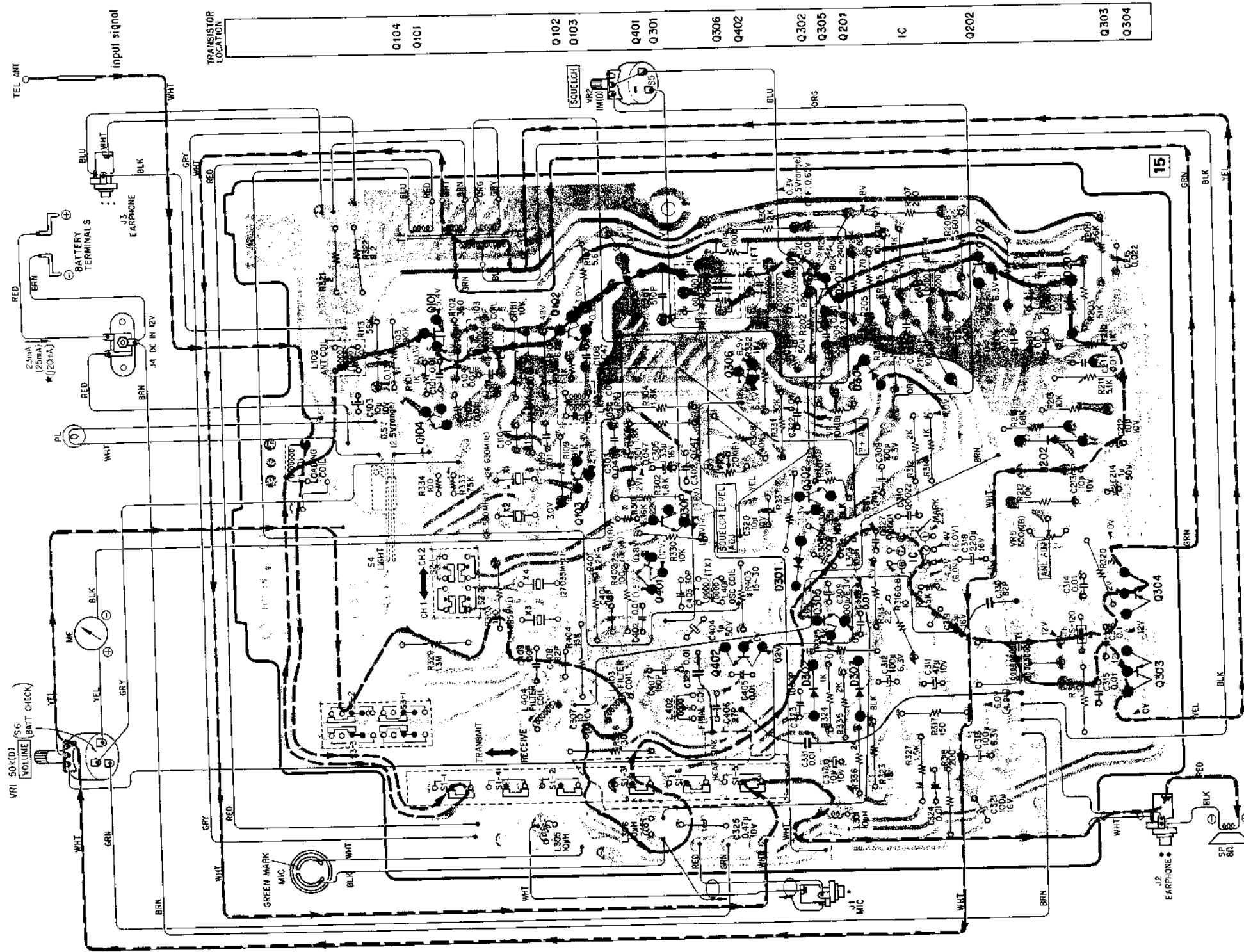
Switch mode:

Ref No.	Switch	Mode
S1-1 ~ 6	receive/transmit	receive
S2-1 ~ 2	channel	CH-1
S3-1 ~ 3	POWER	OFF
S4	LIGHT	OFF
S5	SQUELCH	OFF
S6	BATT CHECK	OFF

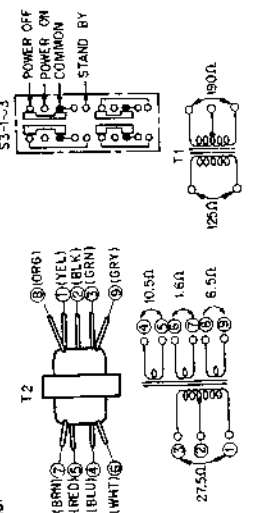
4-2. MOUNTING DIAGRAM

— Conductor Side —

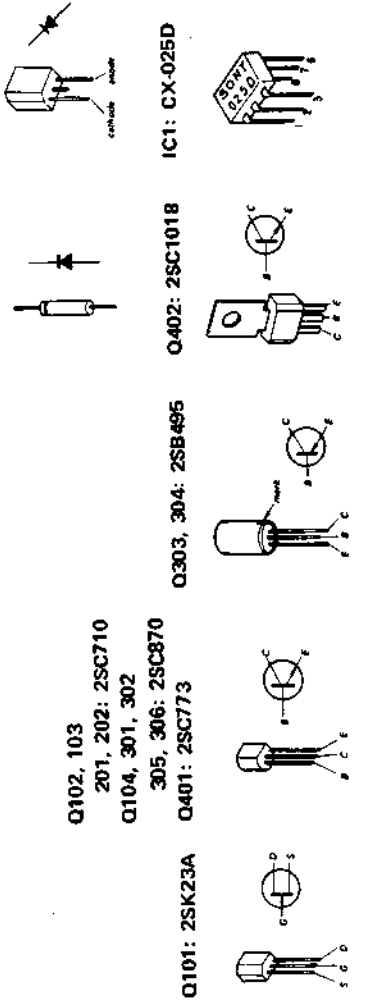
Serial No. 24001 and later



Q104	Q101	Q102	Q103	Q401	Q301	Q306	Q402	Q302	Q305	Q201	IC	Q202	Q303	Q304
------	------	------	------	------	------	------	------	------	------	------	----	------	------	------



D201, 302: 1T22A  
D202, 301, 303: 1S1555 D304: MZ-08



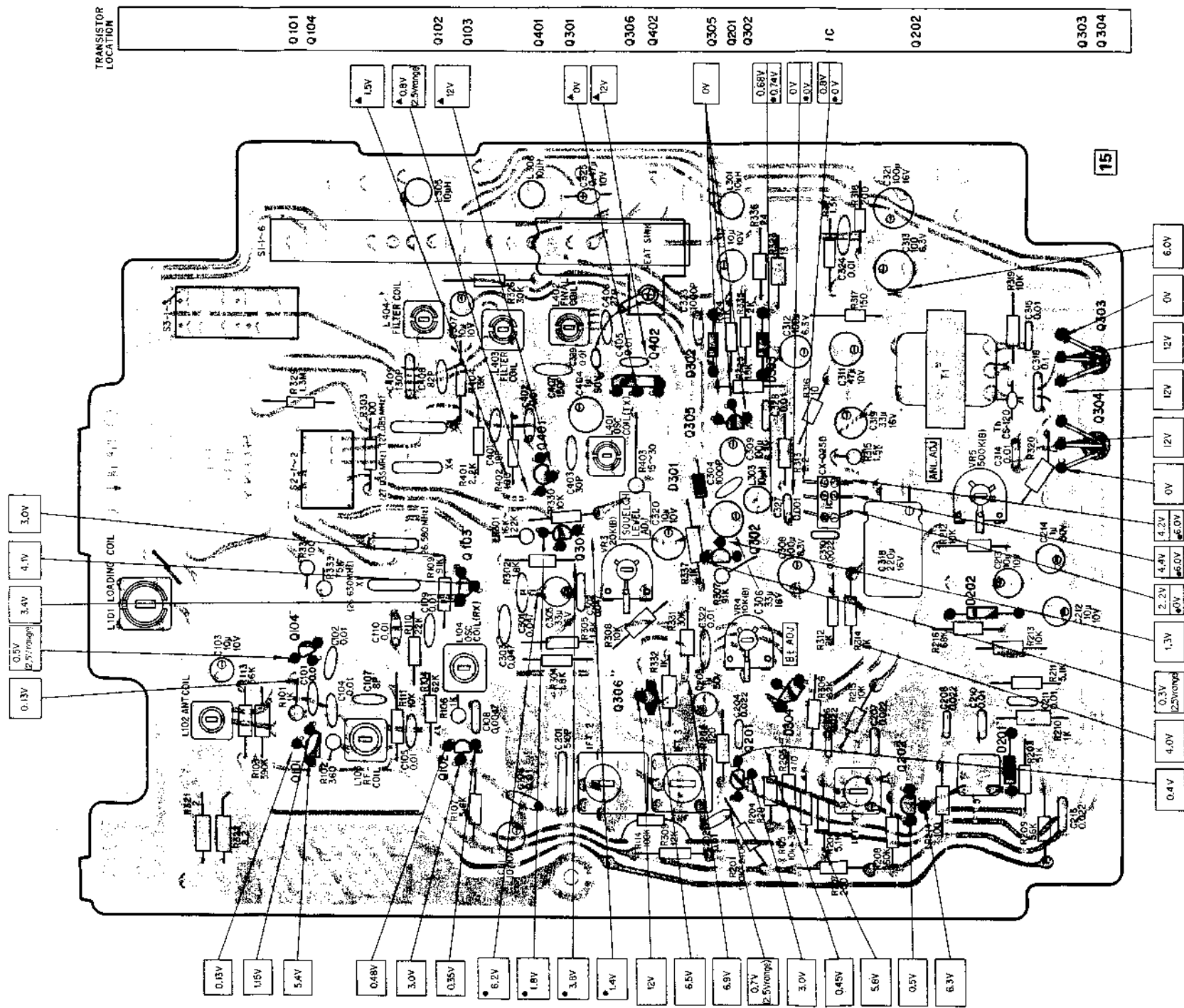
DC Resistance

- Note:
- All fixed resistors are in  $\Omega$ ,  $\frac{1}{2}W$ ,  $\pm 5\%$  carbon film type unless otherwise specified.
  - \* : to be selected.  $k = 1,000$   $M = 1,000k$
  - All fixed capacitors are in  $\mu F$  except as indicated with  $p$  which means  $\mu F$ .  $\Delta$ : included in coils and transformers.
  - All voltages and currents are taken with a  $20k\Omega/V$  DC VOM with reference to ground pattern with no receiving signal, no modulation. [ ] : transmitting mode. ( ) : STAND BY mode. \* : taken with telescopic antenna fully extended. No mark: receiving mode.
  - B + pattern
  - : signal path
  - C330, C331 are mounted on conductor side.

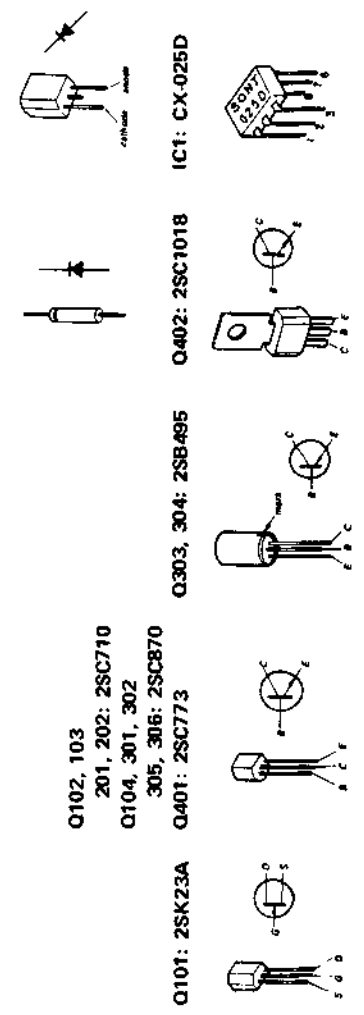
# ICB-700 ICB-700

## 4.3. MOUNTING DIAGRAM

— Component Side —  
Serial No. 24001 and later



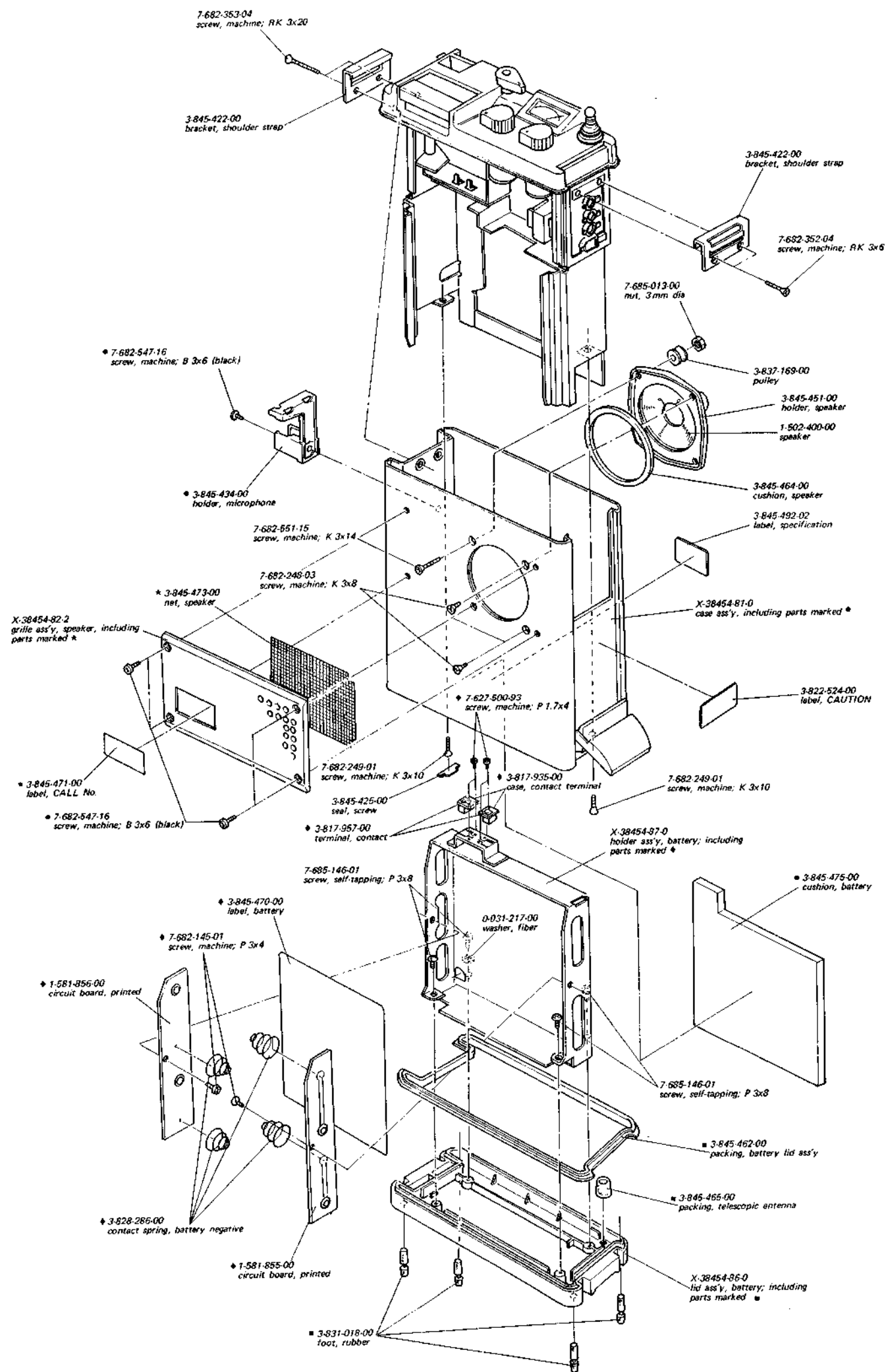
D201, 302: 1T22A  
D202, 301, 303: 1S1555 D304: MZ-08



**Note:**

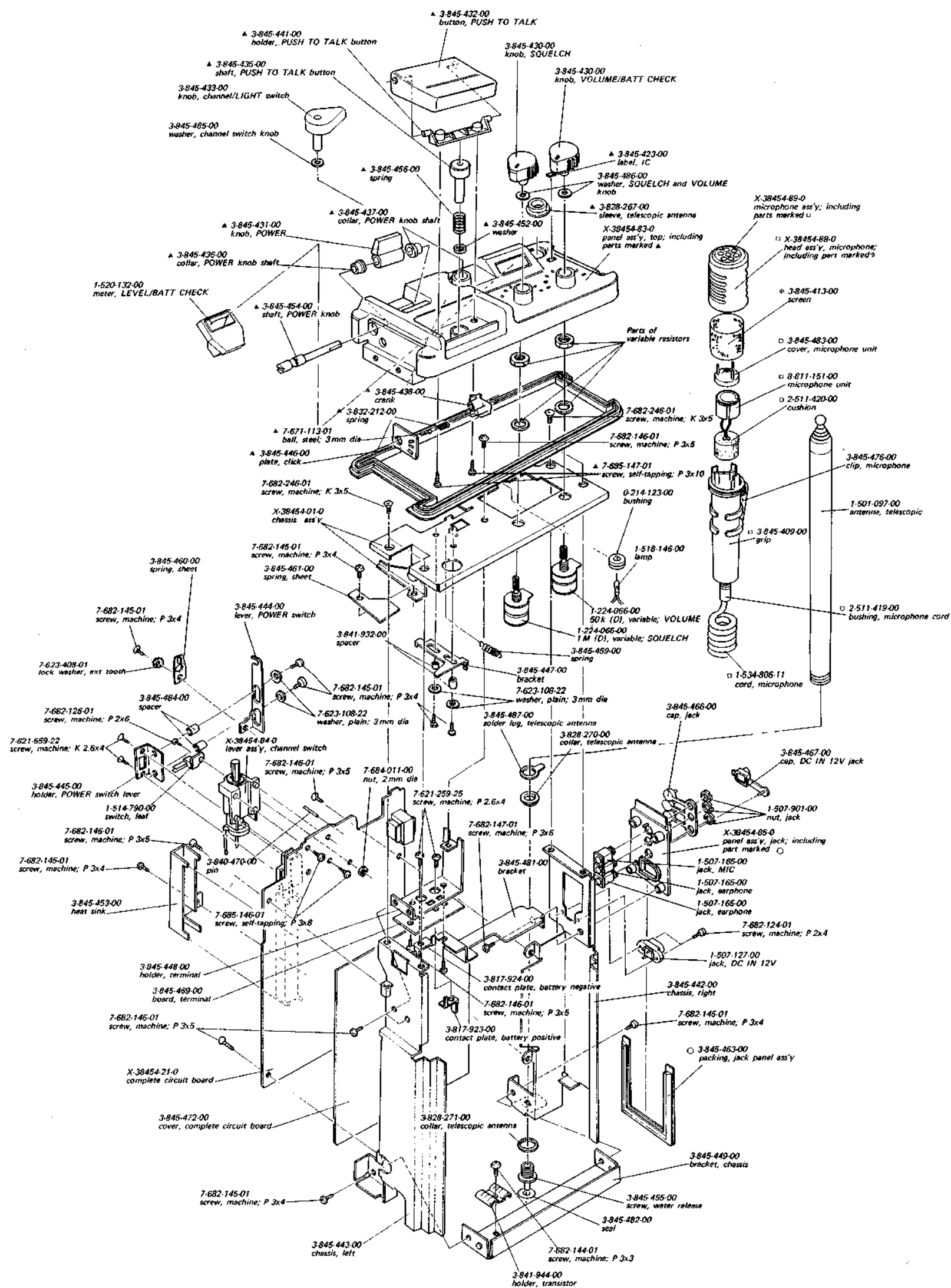
- All fixed resistors are in  $\Omega$ ,  $\frac{1}{4}W$ ,  $\pm 5\%$  carbon film type unless otherwise specified.
- \* : to be selected,  $k = 1,000$   $M = 1,000k$
- All fixed capacitors are in  $\mu F$  except as indicated with p which means  $\mu F$ .  $\Delta$ : included in coils and transformers.
- All voltages and currents are taken with a 20  $k\Omega/V$  DC VOM with reference to ground pattern with no receiving signal, no modulation.  $\Delta$ : transmitting mode.
- : STAND BY mode. \* : taken with telescopic antenna fully extended. No mark: receiving mode.

SECTION 5  
EXPLODED VIEWS AND PACKING



Note: 1. Parts without part numbers and names are not available.  
2. All screws are Phillips type (cross recess type) unless otherwise indicated. (-): slotted head

ICB-700 ICB-700



Note: 1. Parts without part numbers and names are not available.  
 2. All screws are Phillips type (cross recess type) unless otherwise indicated. (-): slotted head

ICB-700 ICB-700



**MEMO**

**SECTION 6  
ELECTRICAL PARTS LIST**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
<b>COMPLETE CIRCUIT BOARD</b>		
	X-38454-21-0	complete circuit board
<b>SEMICONDUCTORS</b>		
Q101		transistor 2SK23A
Q102		transistor 2SC710
Q103		transistor 2SC710
Q104		transistor 2SC870
Q201		transistor 2SC710
Q202		transistor 2SC710
Q301		transistor 2SC870
Q302		transistor 2SC870
Q303		transistor 2SB495
Q304		transistor 2SB495
Q305		transistor 2SC870
Q306		transistor 2SC870
Q401		transistor 2SC773
Q402		transistor 2SC1018
IC		integrated circuit CX-025D
D201		diode 1T22A
D202		diode 1S1555
D301		diode 1S1555
D302		diode 1T22A
D303		diode 1S1555
D304		diode MZ-08
Th	1-800-192-00	thermistor CS-120
<b>COILS AND TRANSFORMERS</b>		
IFT1		-----
IFT2	1-403-888-11	filter, ceramic
IFT3	1-403-888-21	filter, ceramic
IFT4	1-403-110-00	transformer, i-f
IFT5	1-403-137-00	transformer, i-f
L101	1-401-356-00	coil, loading
L102	1-401-384-00	coil, antenna
L103	1-425-374-21	coil, rf
L104	1-405-163-00	coil, osc (RX)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
L301	1-407-190-00	10 $\mu$ H, micro inductor
L302		-----
L303	1-407-190-00	10 $\mu$ H, micro inductor
L304		-----
L305	1-407-190-00	10 $\mu$ H, micro inductor
L306	1-407-190-00	10 $\mu$ H, micro inductor
L401	1-405-446-00	coil, osc (TX)
L402	1-425-671-00	coil, final
L403	1-407-449-00	coil, filter
L404	1-407-450-00	coil, filter
T1	1-423-064-21	transformer, driver
T2	1-459-098-00	transformer, output and/or modulator
<b>CAPACITORS</b>		
All fixed capacitors are in $\mu$ F except as indicated with p which means $\mu$ F. elect = electrolytic		
C101	1-101-923-11	0.01 ceramic
C102	1-101-923-11	0.01 ceramic
C103	1-121-469-11	10 10V elect
C104	1-101-923-11	0.01 ceramic
C105	1-101-923-11	0.01 ceramic
C106	1-101-923-11	0.01 ceramic
C107	1-102-945-11	8p ceramic
C108	1-108-509-12	0.0047 mylar
C109	1-101-923-11	0.01 ceramic
C110	1-101-923-11	0.01 ceramic
C111	1-121-469-11	10 10V elect
C201	1-107-235-11	510p mica
C202	1-101-923-11	0.01 ceramic
C203	1-121-391-11	1 50V elect
C204	1-108-517-12	0.022 mylar
C205		-----
C206	1-108-517-12	0.022 mylar
C207	1-108-517-12	0.022 mylar
C208	1-108-517-12	0.022 mylar
C209		-----
C210	1-108-513-12	0.01 mylar
C211	1-108-513-12	0.01 mylar
C212	1-121-469-11	10 10V elect
C213	1-121-469-11	10 10V elect
C214	1-121-391-11	1 50V elect
C215	1-108-517-12	0.022 mylar
C301	1-108-521-12	0.047 mylar
C302	1-108-521-12	0.047 mylar

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C303	1-108-521-12	0.047	mylar
C304	1-101-918-11	1,000p	ceramic
C305	1-121-403-11	33	16V elect
C306	1-121-403-11	33	16V elect
C307	1-121-469-11	10	10V elect
C308	1-121-413-11	100	6.3V elect
C309	1-121-413-11	100	6.3V elect
C310	1-108-505-12	0.0022	mylar
C311	1-121-352-11	47	10V elect
C312	1-121-413-11	100	6.3V elect
C313	1-121-413-11	100	6.3V elect
C314	1-108-513-12	0.01	mylar
C315	1-108-513-12	0.01	mylar
C316	1-108-525-12	0.1	mylar
C317	1-121-469-11	10	10V elect
C318	1-121-421-11	220	16V elect
C319	1-121-403-11	33	16V elect
C320	1-121-469-11	10	10V elect
C321	1-121-415-11	100	16V elect
C322	1-101-923-11	0.01	ceramic
C323	1-101-918-11	1,000p	ceramic
C324	1-108-513-12	0.01	mylar
C325	1-127-022-11	0.47	10V solid aluminum
C326	1-108-517-12	-----	
C327	1-108-501-12	0.001	mylar
C328	1-108-513-12	0.01	mylar
C329	1-108-230-12	0.01	mylar
C330	1-102-971-11	82p	ceramic
C331	1-108-230-12	0.01	mylar
C401	1-102-953-11	18p	ceramic
C402	1-102-923-11	0.01	ceramic
C403	1-102-962-11	30p	ceramic
C404	1-121-391-11	1	50V elect
C405	1-101-923-11	0.01	ceramic
C406	1-102-961-11	27p	ceramic
C407	1-107-089-11	150p	mica
C408	1-102-971-11	82p	ceramic
C409	1-107-088-11	130p	mica

**RESISTORS**

All fixed resistors are in  $\Omega$ ,  $\frac{1}{4}W$ ,  $\pm 5\%$  carbon film type unless otherwise specified. k = 1,000, M = 1,000k

R101	1-244-673-11	1k
R102	1-240-460-11	360
R103	1-244-735-11	390k
R104	1-244-716-11	62k
* R105	1-244-697-11	10k
	1-244-704-11	20k
	1-244-708-11	30k

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
* R105	1-244-711-11	39k
R106	1-240-473-11	1k
R107	1-244-691-11	5.6k
R108		-----
R109	1-244-735-11	91k
R110	1-244-705-11	22k
R111	1-244-697-11	10k
R112		-----
R113	1-244-715-11	56k
R114	1-244-721-11	100k
* R201	1-244-727-11	180k
	1-244-728-11	200k
	1-244-729-11	220k
	1-244-730-11	240k
R202	1-244-669-11	820
R203	1-244-714-11	51k
R204	1-244-671-11	820
R205	1-244-665-11	470
R206	1-244-690-11	5.1k
R207	1-244-656-11	200
R208	1-244-739-11	560k
R209	1-244-715-11	56k
R210	1-244-673-11	1k
R211	1-244-690-11	5.1k
R212	1-244-697-11	10k
R213	1-244-697-11	10k
R214	1-244-649-11	100
R215	1-244-697-11	10k
R216	1-244-741-11	680k
* R301	1-240-502-11	16k
	1-240-503-11	18k
	1-240-504-11	20k
	1-240-505-11	22k
R302	1-244-679-11	1.8k
R303	1-244-649-11	100
R304	1-244-679-11	1.8k
R305	1-244-679-11	1.8k
R306	1-244-719-11	82k
R307	1-240-520-11	91k
R308	1-244-697-11	10k
R309	1-244-699-11	12k
R310		-----
R311		-----
R312	1-244-680-11	2k
R313	1-244-609-11	2.2
R314	1-244-673-11	1k
R315	1-240-477-11	1.5k
R316	1-244-625-11	10
R317	1-244-653-11	150
R318	1-244-656-11	200

Ref. No.	Part No.	Description
R319	1-244-697-11	10k
R320	1-244-611-11	3
R321	1-244-608-11	2
R322	1-244-623-11	8.2
R323	1-244-628-11	13
R324	1-244-673-11	1k
R325	1-244-677-11	1.5k
R326	1-244-708-11	30k
R327	1-244-677-11	1.5k
R328	-----	-----
R329	1-244-547-11	1.3M
R330	1-244-697-11	10k
R331	1-244-708-11	30k
R332	1-244-673-11	1k
R333	1-244-518-11	75k
R334	1-244-449-11	100
R335	1-244-681-11	2k
R336	1-244-634-11	33
R337	1-244-673-11	1k
R401	1-244-681-11	2.2k
R402	1-244-649-11	100
* R403	1-244-629-11	15
	1-244-632-11	20
	1-244-634-11	24
	1-244-635-11	27
	1-244-636-11	30
R404	1-244-700-11	13k











\* : to be selected

Ref. No.	Part No.	Description
VR1	1-224-066-00	50k (D), variable; VOLUME
VR2	1-224-065-00	1 M (D), variable; SQUELCH
VR3	1-221-499-00	20k (B), adjustable
VR4	1-221-359-00	10k (B), adjustable
VR5	1-221-372-00	500k (B), adjustable

### MISCELLANEOUS

J1	1-507-165-00	jack, MIC
J2	1-507-165-00	jack, earphone
J3	1-507-165-00	jack, earphone
J4	1-507-127-00	jack, DC IN 12V
ME	1-520-132-00	meter, LEVEL/BATT CHECK
MIC	8-811-151-00	microphone unit
PL	1-518-146-00	lamp
SP	1-502-400-00	speaker
S1	1-516-142-00	switch, slide
S2	1-513-273-00	switch, slide
S3	1-513-254-00	switch, slide
S4	1-514-790-00	switch, leaf
S5	-----	SQUELCH (included in VR2)
S6	-----	BATT CHECK (included in VR1)
TEL ANT	1-501-097-00	antenna, telescopic
X1	1-527-075-11	crystal unit, rx; 26.630 MHz
X2	1-527-258-11	crystal unit, rx; 26.580 MHz
X3	1-527-055-11	crystal unit, tx; 27.085 MHz
X4	1-527-257-11	crystal unit, tx; 27.035 MHz
	1-507-901-00	nut, jack
	1-534-806-11	cord, microphone

### Hardware Nomenclature

<b>P</b> - Pan Head Screw .....		<b>SC</b> - Set Screw .....	
<b>PS</b> - Pan Head Screw with Spring Washer .....		<b>E</b> - Retaining Ring (E Washer) .....	
<b>K</b> - Flat Countersunk Head Screw .....		<b>W</b> - Washer	
<b>B</b> - Binding Head Screw .....		<b>SW</b> - Spring Washer	
<b>RK</b> - Oval Countersunk Head Screw .....		<b>LW</b> - Lock Washer	
<b>T</b> - Truss Head Screw .....		<b>N</b> - Nut	
<b>R</b> - Round Head Screw .....			
<b>F</b> - Flat Fillister Head Screw .....			

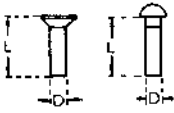
- Example -

P 3x10

└─ Length in mm (L)

└─ Diameter in mm (D)

└─ Type of Head



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- 26 -