# TABLE OF CONTENTS

I. INTRODUCTION .................................................. 1  
II. SPECIFICATIONS .............................................. 2  
III. ACCESSORIES .................................................. 4  
IV. PRE-OPERATION ............................................... 5  
V. CONTROL FUNCTIONS ......................................... 11  
VI. OPERATION .................................................... 17  
VII. INSIDE VIEW .................................................. 19  
VIII. TROUBLE SHOOTING ......................................... 21  
IX. VOLTAGE CHARTS ............................................. 24  
X. BLOCK DIAGRAM ............................................... 28  
XI. OPTIONS ..................................................... 29
SYNTHESIZED HANDIE TALKIE

Small, light, and 800 channels capability,* a handy for use any time, whether outdoors, in a car, or at home, 800 channels for use on any 2 meter frequency, or any repeater.

DUAL POWER LEVEL

Transmitter output can be switched easily to either of two levels; 1.5W output HIGH for long distances, and 0.15W LOW for short distances. Battery consumption is minimized in the Low Power Mode. IC-BP5, Battery Pack as option, gives 2.3W output.

VARIOUS POWER PACKS AVAILABLE

The Power Pack is slipped on the bottom of the radio very easily, and various power packs are available to suit your needs, for minimum size, longer use, or higher power.

* IC-2A       800 channels
  IC-2AT      800 channels with Touch Tone Encoder
  IC-2E D L   400 channels with Independent Tone Type
  IC-2E I     800 channels with Independent Tone Type
  IC-2E G     400 channels with Auto Tone Type
SECTION II SPECIFICATIONS

GENERAL
Number of Semi-conductors
- Transistors: 43 (42) < 41>
- FET: 3
- IC: 5 [6] (6)
- Diodes: 21 (20)

Frequency Coverage
- 144.000 ~ 147.995MHz: IC-2A, IC-2AT, IC-2EI
- 144.000 ~ 145.995MHz: IC-2EDL, IC-2EG

Frequency resolution: 5KHz steps 800 channels or 400 channels

Frequency Control: Digital PLL synthesizer, with thumb wheel switch

Frequency stability: Within ±1.5KHz

Usable Temperature: −10°C ~ 60°C (14°F ~ 140°F)

Antenna impedance: 50 ohms unbalanced

Power supply requirement: DC 8.4V; with attendant battery pack IC-BP3, DC 6 ~ 16V
   negative ground is acceptable

Current drain at 8.4V:
   Transmitting
      HIGH: 1.5W Approx. 550mA
      LOW: 0.15W Approx. 220mA
   Receiving
      At max audio output Approx. 130mA
      Squelched Approx. 20mA

Dimensions: 116.5mm (H) x 65mm (W) x 35mm (D) Without battery pack

Attendant battery pack, IC-BP3 49mm (H) x 65mm (W) x 35mm (D)

Weight: 470g [490g] including battery pack, IC-BP3 and flexible antenna
TRANSMITTER
Output power                                   HIGH: 1.5W, LOW: 0.15W at 8.4V
Emission mode                                16F₃
Modulation system                           Variable reactance frequency modulation
Max. frequency deviation                     ±5KHz
Spurious emission                           More than 60dB below carrier
Microphone                                   Built-in Electret condenser microphone
                                               Optional Speaker-microphone can be used (IC-HM9)
Operating mode                              Simplex
                                               Duplex ±600KHz from receive frequency

RECEIVER
Receiving system                             Double-conversion superheterodyne
Modulation acceptance                       16F₃
Intermediate frequency                      1st:  10.695MHz
                                               2nd:  455KHz
Sensitivity                                  More than 26dB S+N+D/N+D at 1μV
                                               Less than 0.5μV for 20dB Noise quieting
Squelch sensitivity                          Less than 0.4μV
Spurious response rejection ratio            More than 60dB
Selectivity                                  More than ±7.5KHz at −6dB point
                                               Less than ±15KHz at −60dB point
Audio output power                           More than 300mW
Audio output impedance                      8 ohms

Note: [ ] Values for IC-2AT    ( ) Values for IC-2EG    < > Values for IC-2EDL and IC-2EI
Specifications are approximate and are subject to change without notice or obligation.
Carefully remove your transceiver from the packing carton and examine it for signs of shipping damage. Should any be apparent, notify the delivering carrier or dealer immediately, stating the full extent of the damage. It is recommended you keep the shipping cartons. In the event storage, moving, or reshipment becomes necessary, they come in handy. Various accessories are packed with the transceiver. Make sure you have not overlooked anything.

1. Battery pack IC-BP3 ............... 1
2. Wall charger BC-25U/E* ............ 1
3. Flexible antenna .................. 1
4. Belt clip ......................... 1
5. Earphone ......................... 1
6. Earphone plug .................... 1
7. Microphone plug ................. 1
8. Hand-strap ....................... 1
9. AC conversion plug (Universal type) 1
   * BC-25U for 117V
   * BC-25E for 240V
BATTERY INSTALLATION

When using alkaline battery pack IC-BP4:
Place the power switch in the OFF position. Remove the battery pack from bottom of the set by pushing the pack in the indicated direction. Separate the pack into two parts (case) as follows:

Each case holds three AA type batteries. Install batteries into each case, according to indicated polarity. With the batteries properly in place, carefully replace the pack and slip it onto the set with the reverse procedure.
Also, AA type Nickel-Cadmium, rechargeable, batteries can be used. But the charger for them should be the optional BC-30 charger.
WHEN TO REPLACE BATTERIES (When using alkaline batteries).

When the Transmit Indicator LED does not light up during transmission, the batteries are exhausted. Use batteries of the same type, for mixed types might cause leakage. Replace worn batteries with a complete new set. If used with old batteries, the life of new ones might be shortened. Battery life is shortened more by transmitting than by receiving, since several times more current is drawn in transmit. To prolong battery life, therefore, practice as follows:

* Try to minimize the transmit period.
* Reduce volume during reception.
* Be sure to cut off power source when set is not used.

More working hours are available if high-performance batteries are employed.

When using Nickel-Cadmium battery pack IC-BP3:
The IC-BP3 is a rechargeable Nickel-Cadmium battery pack, and it can be slipped onto or off of the set very easily. It has a connector for a charger charge-current control circuit, reverse polarity protection circuit and charge indicator LED in its own pack. You can use the supplied BC-25U/E wall charger or similar simple wall charger, or a car battery by using optional cable IC-CP1 for recharging. Before use, the battery pack should be charged about 15 hours, because the battery may have discharged. (Refer "How to charge" on page 7.)

After charging is completed, the batteries can be used in the same manner as dry cells. However, the voltage of Nickel-Cadmium batteries drops rapidly just before they are exhausted, so when the Transmit Indicator LED of the transceiver goes out, be sure to immediately stop using it, and charge the batteries again.
HOW TO CHARGE (When using Nickel-Cadmium battery pack IC-BP3).

1. Use the supplied wall charger BC-25U/E or a stable power source with an output voltage of DC 13.8V and current capacity over 50mA, or use a 12V car battery with optional charger cable IC-CP1. (Output voltage of 12~15V can be used, but output voltage near the specified voltage should be used.)

2. The power switch of the transceiver must be OFF, or remove the battery pack from the transceiver.

3. Connect the output plug of the wall charger (BC-25U/E), or other power source, to the charger socket of the battery pack. (When charging Nickel-Cadmium batteries in the IC-BP4 battery pack, you should use the BC-30 charger only.)

The charge indicator LED of the battery pack is lit, which shows that the charger is working.
4. It takes about 15 hours to charge the batteries completely. This charger is designed for 0.1°C (10-hour rate current), but charge for 15 hours in order to compensate for any unbalance of the batteries.
   You should charge the batteries for 15 hours when you have not used them for a long time or after buying them.
5. Charge between 0°C and 40°C.
6. Avoid continuing charging as much as possible after full charging, (15 hours). If excess charging is repeated, efficiency of the battery pack is reduced.
7. After charging, unplug the plug of the power source from the charger socket of the battery pack.
The transceiver and the battery pack is now ready for operation.

PRECAUTIONS FOR USE OF THE NICKEL-CADMIUM BATTERIES
(from the JIS C8705 MANUAL)

General Cautions

1. Never short the battery pack.
   Since internal resistance is low, excess shorted current flows away, causing the batteries or conductors to burn. Avoid shorts! Label showing polarity is put on the battery pack.
2. Never solder the batteries directly.
   If the batteries are soldered directly, the separator or insulator may be melted and damaged. Accordingly, the terminal must be spot-welded first and then soldered.
3. Confirm polarities in order to prevent reverse charging. If they are charged in reverse, batteries may be damaged. Therefore confirmation of correct polarity is essential.
4. Never charge with excess charging current.
   If an excess charging rate is employed, gas consumption speed cannot keep up with gas generating speed at the time of charging. Batteries may be damaged by increasing internal pressure. Accordingly, the charging must be kept regulated.
5. Avoid charging under 0°C or over 40°C. 
   Under 0°C, since gas consumption speed becomes lower at the charging time, inside pressure 
   increases and hydrogeneon is generated. Since charging efficiency is reduced over 40°C, it is rather 
   difficult to charge. Accordingly, charging must be done between 0°C and 40°C.
6. Never put batteries into fire. 
   Since there may be a little gas left in the batteries, internal pressure increases suddenly and the 
   batteries explode if thrown into a fire. Also, battery electrolyte is ejected and can cause damage 
   to skin and clothes.

FOR OUTDOOR USE
1. Attach the supplied battery pack. (Refer to “BATTERY INSTALLATION”)
2. Attach the supplied hand strap and belt clip through the fixture on the boy (as shown in the 
   drawings on page 10).
3. Attach the flexible rubber antenna.

FOR USE IN THE CAR
1. Avoid using the unit near the outlet of heaters, air-conditioners, etc.
2. Put the unit in a convenient place to avoid disrupting safe driving.
3. Firmly ground to the car body a mobile antenna (e.g. whip antenna) that requires it.

FOR FIXED USE
1. Avoid putting the unit in places exposed to rain, water splash, direct sunshine, dust, vibration, or 
   heat.
2. An external antenna should be used for indoor operation. The use of the flexible antenna indoors 
   may cause TVI, BCI, Hi-Fi interference, malfunction of stabilized DC power supply.
EXTERNAL ANTENNA

1. Select a high performance antenna (a multi-element beam or gain antenna) and set it up in the highest possible position.
2. Use a 50 ohm antenna and coaxial cable.
3. On VHF, the power loss in the antenna cable is large, so use a cable with the lowest possible loss and make it as short as possible.
4. Use a BNC plug for connection to the unit.

ATTACHMENT OF HAND STRAP AND BELT CLIP

- Attach the belt clip on the back cover with 2 screws supplied.
SECTION V CONTROL FUNCTIONS

TOP PANEL
[IC-2A, IC-2AT, IC-2EG]

1. SQUELCH CONTROL
2. TRANSMIT/BATTERY INDICATOR
3. ANTENNA CONNECTOR
4. VOLUME CONTROL
5. EXTERNAL MIC JACK
6. EXTERNAL SPEAKER JACK
7. POWER SWITCH
8. 5KHz SHIFT SWITCH
9. 10KHz THUMBWHEEL SWITCH

[IC-2EDL, IC-2EI]

4. VOLUME CONTROL AND INDEPENDENT TONE CALL SWITCH (PUSH TO GENERATE TONE)
7. POWER SWITCH
1. **ANTENNA CONNECTOR**
   Connect the supplied flexible antenna. An external antenna can be used, using a BNC connector.

2. **TRANSMIT/BATTERY INDICATOR**
   Illuminates in the transmit mode. Also indicates the battery condition; during transmission. The voltage of Nickel-Cadmium batteries drops rapidly just before they are exhausted, so when this indicator goes out, be sure to immediately stop using it, and charge the batteries again.

3. **SQUELCH CONTROL**
   Sets the squelch threshold level. To turn OFF the squelch function, rotate this control completely counterclockwise. To set the threshold level higher, rotate the control clockwise.

4. **VOLUME CONTROL (and TONE CALL SWITCH)**
   Controls the audio output level in the receive mode. Clockwise rotation increases audio output.

**TONE CALL SWITCH (IC-2E independent tone type only)**
Most repeaters require a 1750Hz Tone-burst for initial access. Depressing the VOLUME CONTROL knob for the required period for a repeater, puts the set in the transmit mode and the tone burst generator actuates and you can access the repeater.

5. **EXTERNAL MIC JACK**
   When an external microphone is used, connect it to this jack. See the schematic for the proper hookup. When the external microphone is connected the built-in microphone does not function. The IC-HM9 optional speaker-microphone can also be used.
⑥ EXTERNAL SPEAKER JACK
When an external speaker (or an earphone) is used, connect it to this jack. Use a speaker with an impedance of 8 ohms. When the external speaker is connected the built-in speaker does not function.

⑦ POWER SWITCH
The ON/OFF switch controls the supplied power to the set.

⑧ 5KHz SHIFT SWITCH
When the desired operating frequency has a 5KHz digit, set this switch in the +5KHz position, and add 5KHz to the indicated frequency on the thumbwheel switches.
9 10KHz THUMBWHEEL SWITCH
Sets 10KHz digit of the desired operating frequency.

10 100KHz THUMBWHEEL SWITCH
Sets 100KHz digit of the desired operating frequency.

11 1MHz THUMBWHEEL SWITCH
Sets 1MHz digit of the desired operating frequency. When you set a digit of a frequency that is out of the band, the set will work as follows:

<table>
<thead>
<tr>
<th>Digit</th>
<th>Actual Working frequency band</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IC-2A - IC-2AT</td>
</tr>
<tr>
<td>0</td>
<td>144MHz</td>
</tr>
<tr>
<td>1</td>
<td>145</td>
</tr>
<tr>
<td>2</td>
<td>146</td>
</tr>
<tr>
<td>3</td>
<td>147</td>
</tr>
<tr>
<td>4</td>
<td>144</td>
</tr>
<tr>
<td>5</td>
<td>145</td>
</tr>
<tr>
<td>6</td>
<td>146</td>
</tr>
<tr>
<td>7</td>
<td>147</td>
</tr>
<tr>
<td>8</td>
<td>144</td>
</tr>
<tr>
<td>9</td>
<td>145</td>
</tr>
</tbody>
</table>

12 PUSH TO TALK (PTT) SWITCH
For transmission, press this switch and talk into the microphone with normal voice. The internal microphone is of the electret-condenser type and provides good pickup for all levels of voice.
*TWO-TONE ENCODER PAD*
IC-2AT has a standard two-tone encoder pad on the front panel. The pad can be used for autopatch, accessing to closed repeater, and/or other controls.

13 **RF POWER SWITCH**
Selects the RF output power HIGH 1.5 Watt (at 8.4V) or LOW 0.15 Watt (at 8.4V). In the LOW position, the current drain is decreased, to prolong the battery life.

14 **DUPLEX/SIMPLEX SWITCH**
Selects the operation mode DUPLEX for repeater operation, or SIMPLEX for the same receive/transmit frequency operation.

15 **DUPLEX MODE SWITCH**
In the DUPLEX mode, selects the transmitting frequency, 600KHz above or below the receiving frequency according to the desired repeater input frequency.

16 **CHARGER CONNECTOR**
Connects to the output plug of the wall charger BC-25U/E or other power source.

17 **BATTERY CHARGE INDICATOR**
Lights during battery charging.
SECTION VI  OPERATION

RECEIVING

Make sure the ⑧ POWER SWITCH is in the OFF position, and before turning ON the power switch, confirm as follows:
1. Make sure the battery pack is properly charged and attached to the set.
2. Make sure the supplied flexible antenna is properly set.
   When an external antenna is employed, make sure the coaxial line is of the correct impedance (50 ohms) and is neither shorted nor opened, and is firmly connected to the antenna connector.

Set the controls and switches as follows:
③ SQUELCH CONTROL  Completely counterclockwise
④ VOLUME CONTROL  Completely counterclockwise
⑨～⑩ THUMBWHEEL SWITCHES and ⑦ 5KHz SHIFT SWITCH  Desired frequency
   (Others may be at any position or setting.)

Set the ⑧ power switch to the ON position.
Turn the ④ VOL control clockwise to a comfortable audio level.

If no signal can be heard but only noise, turn the ③ SQL control clockwise until the noise from the speaker stops and set it just below this threshold. (When adjusting the SQL setting, if some communication signals can be heard, turn the thumbwheel switch either direction and set it where only noise can be heard.) Your transceiver will now remain silent until an in-coming signal is received which opens the squelch. If the squelch is unstable due to the reception of weak or mobile stations, adjust the squelch control further until the proper threshold is obtained.
TRANSMITTING

Set the controls and switches as follows:

14. DUPLEX/SIMPLEX SWITCH (see below)
15. DUPLEX MODE SWITCH (see below)
13. RF Power Switch HIGH

For simplex operation, set 14. DUPLEX/SIMPLEX SWITCH at the SIMPLEX position, making 15. DUPLEX MODE SWITCH nonfunctional.

For repeater operation, set 14. DUPLEX/SIMPLEX SWITCH at DUPLEX and select whether the transmitting frequency is to be 600KHz above (+600) or below (−600) the receiving frequency.

If the lower output power is sufficient, set 13. RF Power Switch to the LOW position.

Depress the 12. PTT switch for transmitting and release for receiving. Speak into the microphone with your normal speech level for the proper microphone level.

If you need a tone-burst for initial access of the repeater, depress the 4. Tone Call Switch for the required period. (Tone-burst periods vary individually from 100 milliseconds to 2 seconds.) (IC-2E independent tone type only)
SECTION VII INSIDE VIEW

MAIN UNIT SIDE

- Thumbwheel Switches
- IC2 (BA516 AF Power Amp)
- L2 ~ L4 (RX Band-Pass Filter)
- FI1 (10.695MHz Crystal Filter)
- IC1 (MP5071 IF Circuit IC)
- S1 (PTT Switch)
- L7 (Quadrature Coil)
- FI2 (455KHz Ceramic Filter)
- X1 (10.240MHz 2nd LO Crystal)
- R77 (Tone Signal Level Adjust)
- Tone Generator circuit (IC-2E Only)
- Two-Tone Encoder Connector
- R71 (Deviation Adjust)
Your IC-2A(T)/E has been tested very carefully at the factory before shipping. The chart below has been designed to help you correct any problems which are not equipment malfunctions. If you are not able to locate the problem and/or solve it through use of this chart, please contact your dealer or ICOM distributor for assistance.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Power does not come ON when the switch is turned.</td>
<td>Bad connection of the battery pack. Reverse polarity of the battery (when using IC-BP4) The battery has been exhausted.</td>
<td>Check the connection of the battery pack and correct any problems. Make sure of the polarity of each battery and replace them into the pack. Replace the battery with a new one or recharge it.</td>
</tr>
<tr>
<td>2. No sound comes from the speaker.</td>
<td>VOLUME CONTROL knob is completely counterclockwise. The unit is in the transmit mode, by the PTT switch.</td>
<td>Turn the knob clockwise to a suitable level. Put the unit in the receive mode.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2. No sound comes from the speaker.</td>
<td>SQUELCH setting is turned too far clockwise.</td>
<td>Turn the SQUELCH CONTROL counterclockwise until noise can be heard and reset it just below the threshold.</td>
</tr>
<tr>
<td></td>
<td>External speaker (or earphone) is in use.</td>
<td>Check if the external speaker plug is inserted properly or if the external speaker cable is cut.</td>
</tr>
<tr>
<td></td>
<td>The battery has been exhausted.</td>
<td>Replace the battery with a new one or recharge it.</td>
</tr>
<tr>
<td>3. Sensitivity is low and only strong signals are audible.</td>
<td>Bad connection of the flexible antenna.</td>
<td>Check the connection of the antenna and correct any problems.</td>
</tr>
<tr>
<td></td>
<td>The antenna feed line is cut or shorted. (When using an external antenna.)</td>
<td>Check the feed line and correct any improper condition.</td>
</tr>
<tr>
<td>4. No or low RF output.</td>
<td>RF Power switch is set at the Low position.</td>
<td>Set the RF Power switch to the High position.</td>
</tr>
<tr>
<td></td>
<td>The battery has been exhausted.</td>
<td>Replace the battery with a new one or recharge it.</td>
</tr>
<tr>
<td></td>
<td>The antenna feed line is cut or shorted.</td>
<td>Check the antenna feed line and correct any problems.</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>5. No modulation. (When using external microphone.)</td>
<td>Bad connection of the MIC connector.</td>
<td>Check the connection of the MIC connector and correct any problems.</td>
</tr>
<tr>
<td></td>
<td>The MIC cable is cut.</td>
<td>Repair the disconnected or cut wire.</td>
</tr>
<tr>
<td>6. The receive mode functions properly and your signals are transmitted,</td>
<td>The DUPLEX/SIMPLEX Switch is in the SIMP position.</td>
<td>Set the DUPLEX/SIMPLEX Switch in the DUP position, and the DUPLEX MODE Switch in +600 or −600 position according to repeater input/output frequency.</td>
</tr>
<tr>
<td>your signals are transmitted, but you are unable to make contact with another station. (When desiring DUPLEX mode.) (When desiring, SIMPLEX mode.)</td>
<td>Improper input/output frequency of the repeater.</td>
<td>Set the DUPLEX/SIMPLEX Switch in the SIMP position</td>
</tr>
</tbody>
</table>
SECTION IX  VOLTAGE CHARTS

**NOTE:** Measuring instrument is a 50KΩ/V multimeter.

### MAIN UNIT TRANSISTORS

<table>
<thead>
<tr>
<th>TR No.</th>
<th>TRANSMIT</th>
<th>RECEIVE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BASE OR GATE1</td>
<td>COLLECTOR OR DRAIN</td>
<td>EMITTER OR SOURCE</td>
</tr>
<tr>
<td>Q 1</td>
<td>0</td>
<td>0</td>
<td>GND</td>
</tr>
<tr>
<td>Q 2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q 3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q 4</td>
<td>0</td>
<td>0</td>
<td>GND</td>
</tr>
<tr>
<td>Q 5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Q 6</td>
<td>4.2</td>
<td>4.8</td>
<td>5.0</td>
</tr>
<tr>
<td>Q 7</td>
<td>0</td>
<td>0.7</td>
<td>GND</td>
</tr>
<tr>
<td>Q 8</td>
<td>0.7</td>
<td>0</td>
<td>GND</td>
</tr>
<tr>
<td>Q 9</td>
<td>4.6</td>
<td>0</td>
<td>5.6</td>
</tr>
<tr>
<td>Q 10</td>
<td>0</td>
<td>8.2</td>
<td>0</td>
</tr>
<tr>
<td>Q 11</td>
<td>7.8</td>
<td>0</td>
<td>8.4</td>
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<tr>
<td>Q 12</td>
<td>4.8</td>
<td>7.9</td>
<td>4.2</td>
</tr>
<tr>
<td>Q 13</td>
<td>0</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>Q 14</td>
<td>0.6</td>
<td>0</td>
<td>GND</td>
</tr>
<tr>
<td>Q 15</td>
<td>0</td>
<td>7.8</td>
<td>0</td>
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<tr>
<td>Q 16</td>
<td>7.8</td>
<td>0</td>
<td>8.4</td>
</tr>
<tr>
<td>TR No.</td>
<td>TRANSMIT</td>
<td>RECEIVE</td>
<td>REMARKS</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
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<td>---------</td>
</tr>
<tr>
<td></td>
<td>BASE OR GATE1</td>
<td>COLLECTOR OR DRAIN</td>
<td>EMITTER OR SOURCE</td>
</tr>
<tr>
<td>Q17</td>
<td>0.6</td>
<td>8.4</td>
<td>2.0</td>
</tr>
<tr>
<td>Q18</td>
<td>8.2</td>
<td>5.0</td>
<td>8.4</td>
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<tr>
<td>Q19</td>
<td>0.6</td>
<td>8.2</td>
<td>GND</td>
</tr>
<tr>
<td>Q20</td>
<td>0.6</td>
<td>0.6</td>
<td>GND</td>
</tr>
<tr>
<td>Q21</td>
<td>5.7</td>
<td>3.4</td>
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<td>GND</td>
</tr>
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<td>Q25</td>
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</tr>
<tr>
<td>Q26</td>
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<td>2.0</td>
</tr>
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SECTION XI OPTIONS

We have prepared a variety of options for the transceiver IC-2A(T)/E in order to enlarge its use.

1. **BC-30 Nickel-Cadmium Battery Charger**
   A convenient set-in type charger for Nickel-Cadmium battery packs. Two charging rates provided - high speed and regular rate. The charger is compatible with any type of Nickel-Cadmium batteries packs.

2. **IC-BP2 Nickel-Cadmium Battery Pack**
   This battery pack has six AA type 450mAH Nickel-Cadmium batteries and provides 1 Watt output power for the IC-2A(T)/E with attendant longer use capability. Recharge time, when using the BC-30 is 1-1/2 hours.

3. **IC-BP4 Battery Case**
   This case will accept dry batteries, zinc or alkaline, for 1.5W output, or Nickel-Cadmium for 1 Watt output power. It holds six cells. When Nickel-Cadmium are installed the BC-30 can be used to recharge the batteries.

4. **IC-BP5 Nickel-Cadmium Battery Pack**
   This battery pack has nine AA type 450mAH Nickel-Cadmium batteries and provides 2.3 Watts output power, plus longer operating capability. It can be recharged by the BC-30 in 1-1/2 hours.

5. **IC-CP1 Cigarette Lighter Recharger for IC-BP3**
   A handy way to recharge the Nickel-Cadmium packs while mobile - plugs in the cigarette lighter.

6. **IC-HM9 Speaker/Microphone**
   A handy speaker and microphone in one unit. Clips on the clothing and operates as both speaker and microphone when plugged in the unit.

7. **Leather Case, LC-2/LC-3/LC-6/LC-7**
   A soft leather case designed specifically for the IC-2A(T)/E as a convenient, protective case when the set is used outdoors.
ICOM INCORPORATED
1-6-19, KAMI KURATSUKURI, HIRANO-KU,
OSAKA JAPAN

Printed in Japan
A-0267 A