



IC-202S

2 METER BAND
SSB TRANSCEIVER



INSTRUCTION
MANUAL

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SECTION I INTRODUCTION

Congratulations on the purchase of the IC-202S portable 2 meter SSB transceiver. The IC-202S was designed to be operable anywhere like most portables, but we also included features found in most base sets like a very effective noise blanker, RIT, S&RF meter, CW monitor, and a full 3 watts output on either USB or LSB. Two built-in crystals in the stable VXO allow operation between 144.00 and 144.40MHz. If you wish to expand the range of the IC-202S, we have also provided 2 spare crystal sockets for your convenience. With a slight retuning of the IC-202S, and installation of a special crystal, you may also work through OSCAR in USB for up-link (for mode A of AMSAT OSCAR 7 and 8, and for mode J of AMSAT OSCAR 8) and in LSB for down-link (for mode B of AMSAT OSCAR 7).



The aluminum die cast frame provides a very strong yet light housing for the 2 circuit boards, and the aluminum sides snap off easily if service is ever necessary or to change batteries.

The IC-202S operates on 9 inexpensive C cell batteries, or an external 13.8V DC source. The IC-202S will also operate on nicad batteries, contained in the BC-20/BC-15 nicad battery/charger kit. For AC operation, we recommend the IC-3PS which not only provides power for the IC-202S, but also doubles as a stand and holder for the IC-20L 10 watt linear amplifier.

You can use the built-in whip antenna for portable use, or a flexible antenna such as the IC-FA1. An external antenna connects to the antenna connector on the back of the IC-202S.

We are sure that you will have years of lasting enjoyment from your IC-202S, manufactured by the leader in communication equipment: Inoue Communication Equipment Corporation.

SECTION II SPECIFICATIONS

General:

Number of Semi-conductors	Transistors 19 FET 7 IC 7 Diodes 36
Frequency Coverage	144–146MHz
Frequency Stability	Less than 200Hz per hour at +25°C
Antenna Impedance	50 ohms unbalanced
Power Supply Requirements	DC 13.8V±15% Negative Ground 800mA max
Current Drain	Transmitting: A3J Approx. 540mA A1 Approx. 750mA Receiving: At max audio approx 250mA With no signal approx 90mA Dial Light: Approx 40mA
Dimensions	183mm (H) x 61mm (W) x 162mm (D)
Net Weight	2.0kg including batteries.

Transmitter:

Emission Mode	A3J (USB, LSB) and A1
RF Power Output	A3J 3W (PEP) A1 3W
Carrier Suppression	More than 40dB below peak power
Unwanted Sideband Suppression	More than 40dB down at 1000Hz AF input
Spurious Radiation	More than 60dB below peak power
Microphone	Impedance: 600 ohms Input level: 10mV typical Dynamic or optional Electret condenser microphone
CW Monitor	Built-in. Audio level adjustable by VOL knob.

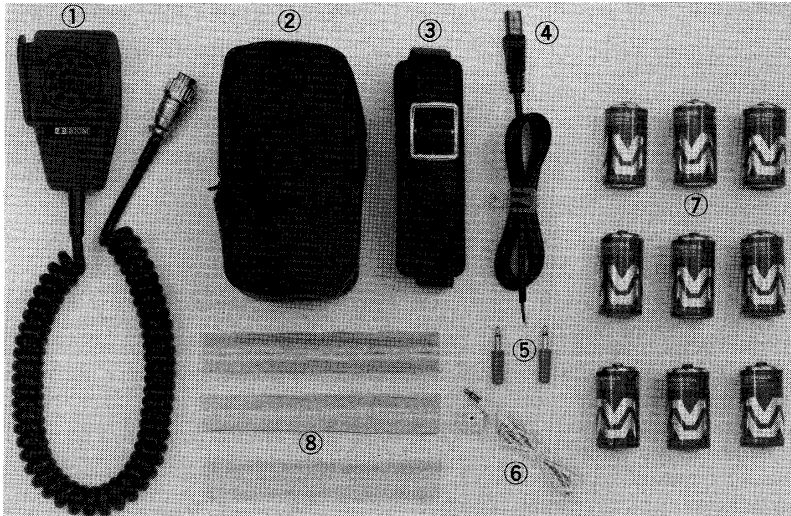
Receiver:

Receiving System	Single Conversion Superheterodyne
Intermediate Frequency	10.7MHz
Receiving Mode	A3J (USB, LSB) and A1
Spurious Response Rejection Ratio	More than 60dB
Sensitivity	Less than 0.5μV for 10dB S+N/N
Selectivity	±1.2KHz at –6dB ±2.4KHz at –60dB
Audio Output	More than 1W
Audio Output Impedance	8 ohms

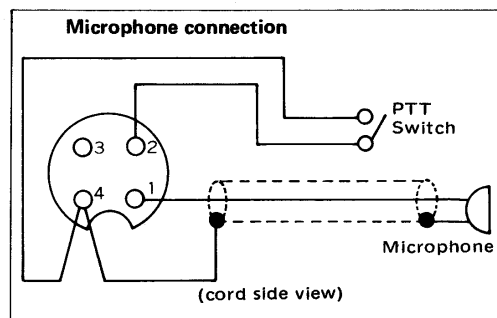
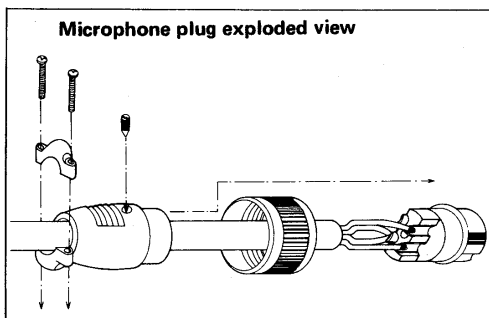
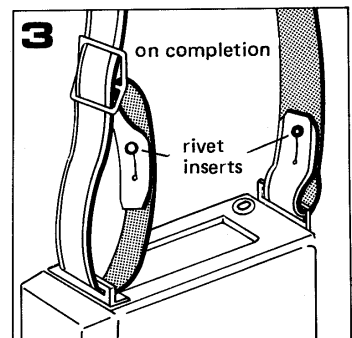
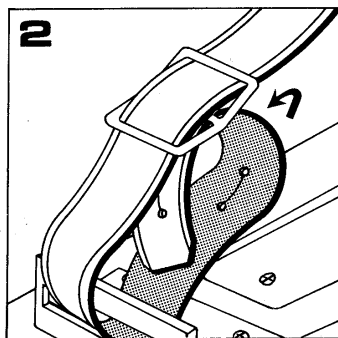
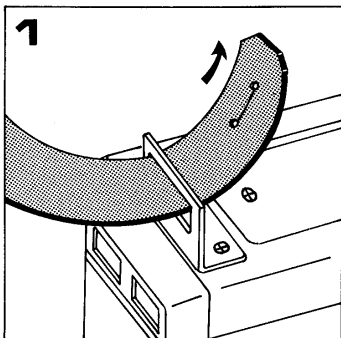
144.00–144.40MHz built-in (2 crystals). Each crystal gives 200KHz continuous coverage. Two spare crystal sockets are provided for additional frequency ranges between 144.40–146.00MHz.

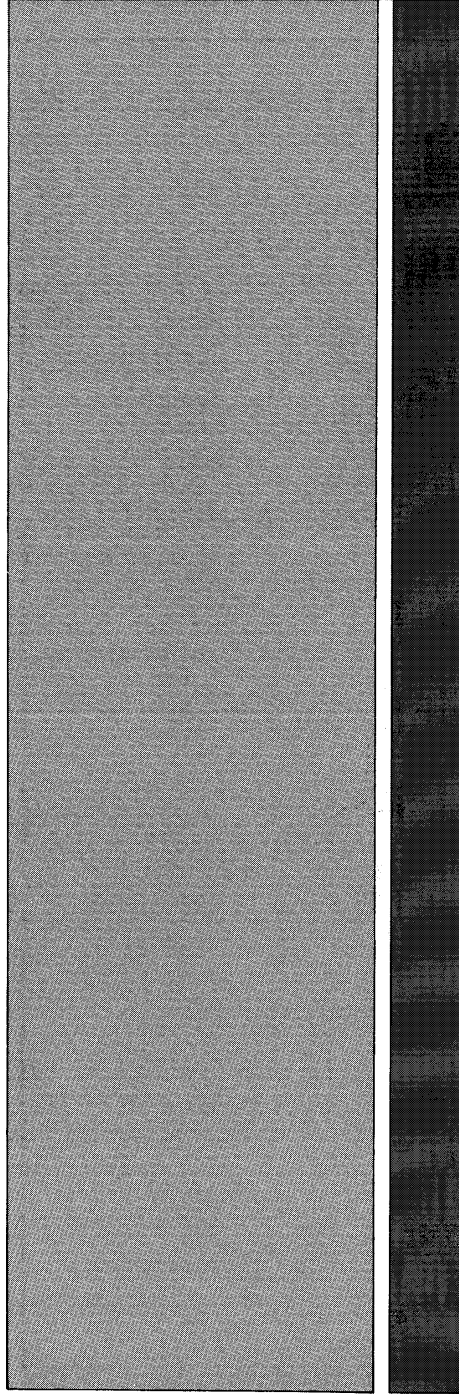
SECTION III ACCESSORIES

Various accessories are packed with your transceiver. Be sure not to overlook anything. Also it's a good idea to keep packing cartons in case of moving or if return for service is necessary.



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|-----------------------|---|--------------------------------|---|
| 1. Dynamic Microphone | 1 | 5. Ext. Speaker Plug, Key Plug | 2 |
| 2. Microphone Case | 1 | 6. Earphone | 1 |
| 3. Shoulder Strap | 1 | 7. Dry Cells Type "C" | 9 |
| 4. Power Cord | 1 | 8. Battery Tubes | 3 |





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