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Midland 13-795 Owner's Manual
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MIDLAND
ELECTRONICS COMPANY[®]

MODEL 13-795

23-CHANNEL

CITIZENS BAND TRANSCEIVER



OWNER'S GUIDE

FEDERAL COMMUNICATIONS COMMISSIONS REQUIREMENTS

Your new Midland 13-795 is a combination receiver-transmitter designed and built for licensed Class 'D' operation on any of the 23 frequencies designed as citizens band channels by the Federal Communications Commission. You are required to read and understand Part 95 of the F.C.C. rules and regulations prior to operation of this unit. Part 95 regulations are available for \$2.00 from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. You are also required to complete F.C.C. form 505 and submit it to the F.C.C. in order to receive your license to operate this unit. F.C.C. regulations will be violated if you transmit with this unit prior to receipt of your license.

OWNER'S GUIDE

Your 13-795 is a versatile, professional quality transceiver and we strongly suggest that you read this Owner's Guide carefully before operation so that you may receive full benefit from its many features.

COMMUNICATION RANGE

Operating range will vary from 1 to 10 miles, depending on terrain, interference, climatic conditions, and the other transceiver used. Using a mobile or base station antenna will increase range. Generally, operating range is greater in open country than in an urban center. Battery condition also affects range and fresh batteries will provide for better range than weak ones.

OPERATING CONTROLS AND FUNCTIONS (FIGURE 1)

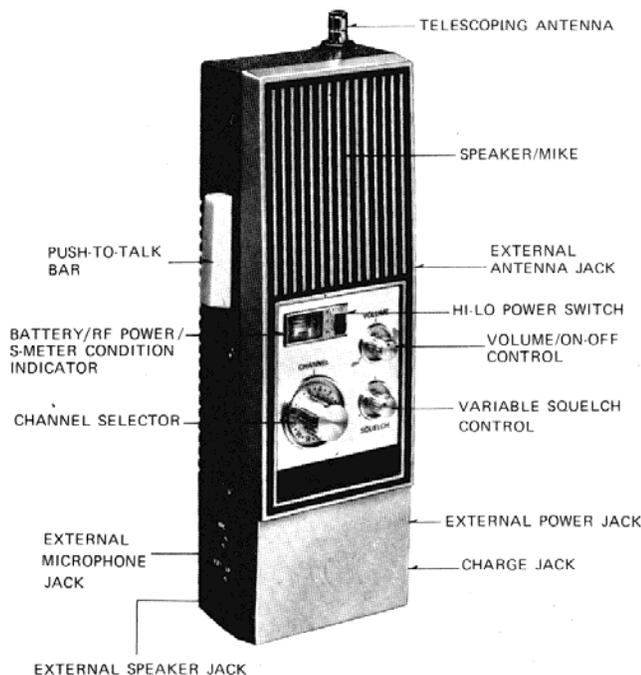


FIGURE-1

CHANNEL SELECTOR

Controls both transmitter and receiver frequencies simultaneously and may be set to any of the 23 positions indicated. All necessary crystals are supplied for full 23 channel operation.

VOLUME/ON-OFF

Turns the set on and controls the sound output from the speaker when receiving. The volume control does not affect transmitting output.

SQUELCH

Quiets the receiver when signals are not being received and allows a quiet standby operation. It functions only in the receive mode and does not affect the receiver volume when signals are being received. To adjust: When no signals are present, rotate the squelch control clockwise until the receiver is quieted. Incoming signals will automatically release the squelch. Careful adjustment is necessary as settings too far to the right will not allow weaker signals to release the squelch.

HI-LO POWER SWITCH

This controls the transmitter-output power. This is an important control and when properly used will greatly extend battery life. For short or medium range communications, set this switch to low. In this position, the power input is reduced to 2 watts. For long range use or when maximum power is needed to get through interference, move this switch to high position.

PUSH-TO-TALK BAR

This controls both the transmitter and the receiver. To transmit, press and hold the bar, to receive, release it.

EXTERNAL ANTENNA JACK

External antennas, either mobile or base may be plugged into this jack and will increase the units range. The built-in antenna is not extended when an external antenna is being used.

CHARGE JACK

Permits recharging of rechargeable batteries without removal from the case.

EXTERNAL POWER JACK

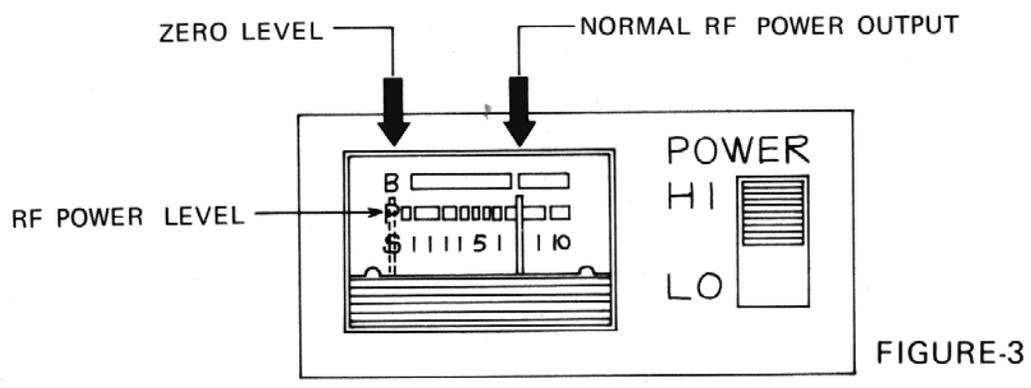
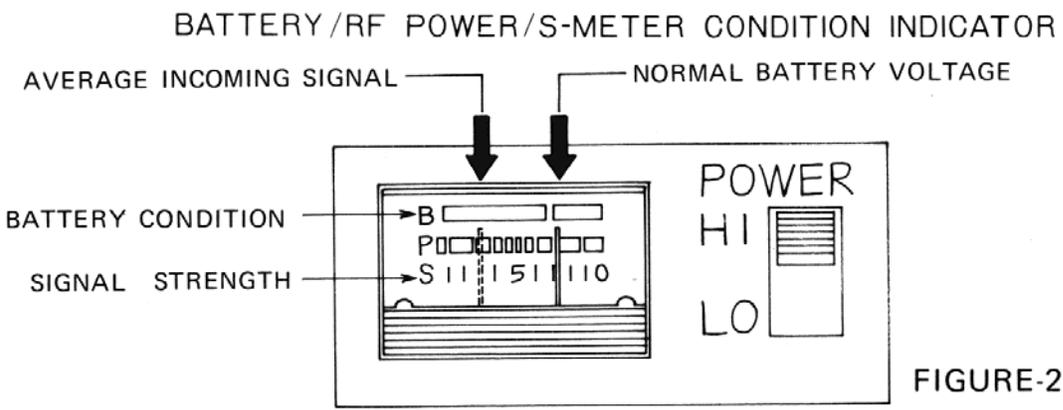
Permits use of an external 15 volts DC supply.
(SEE MOBILE AND BASE OPERATION)

EXTERNAL SPEAKER JACK

Permits the use of an external 8 ohm speaker. When the external speaker is plugged in, the speaker in the set is disconnected in the receive position. The built in speaker/mike will still function normally in the transmit position.

METER

In the transmit position, it measures the relative output power of your transmitter. In the receive position, it measures the relative strength of incoming signals and the condition of the batteries. (See figures 2 and 3)



BATTERY INSTALLATION

When replacing batteries, turn power switch off.

Note: This transceiver operates from 15 volts DC and may be powered by 12 1.25 volt nickel cadmium rechargeable cells or 10 1.5 volt regular "AA" type penlight cells. When using penlight cells, 2 dummy batteries (supplied) must be used.

Due to the high current drain of this unit, nickel cadmium or alkaline cells are recommended.

To replace batteries, loosen the two large slotted screws located on the bottom and back of the case. (See figure 6)

Carefully disconnect the battery power plug.

Refer to figure 4 for regular penlight cell installation. Note: Dummy batteries must be placed as shown.

Refer to figure 5 for nickel cadmium cell installation.

Connect power plug and replace cabinet back.

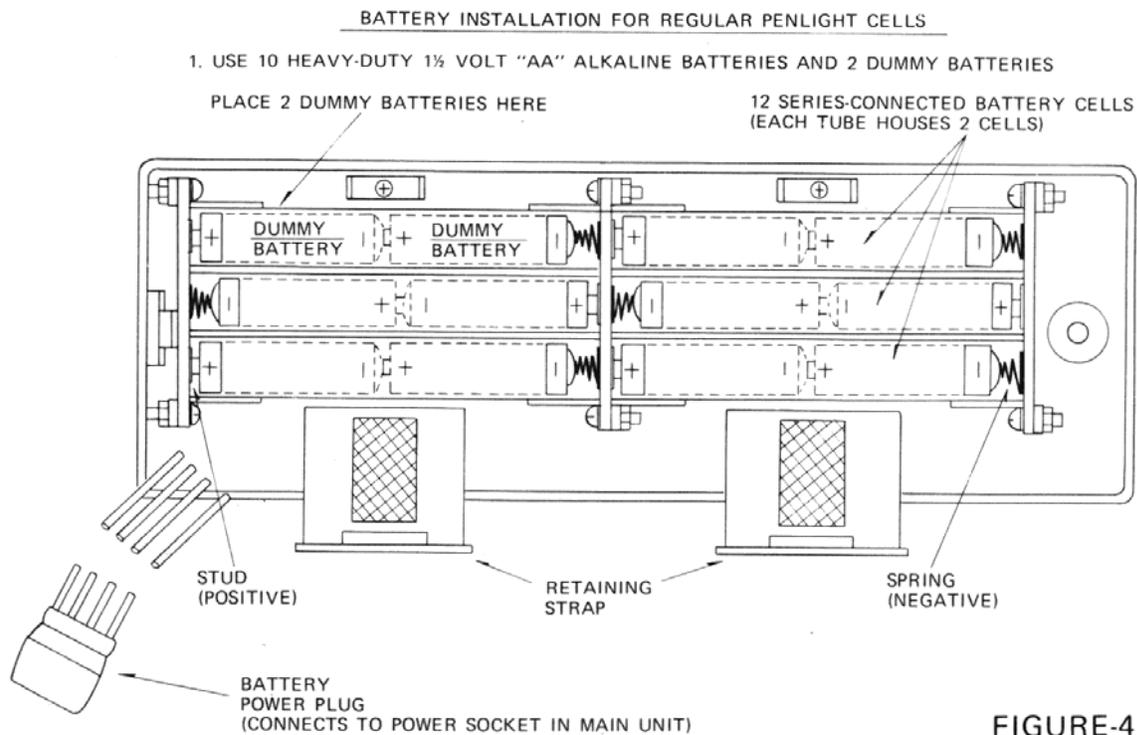


FIGURE-4

BATTERY INSTALLATION FOR NICKEL-CADMIUM BATTERIES

1. USE 12 NICKEL-CADMIUM RECHARGEABLE BATTERIES (1.25 VOLTS EACH)

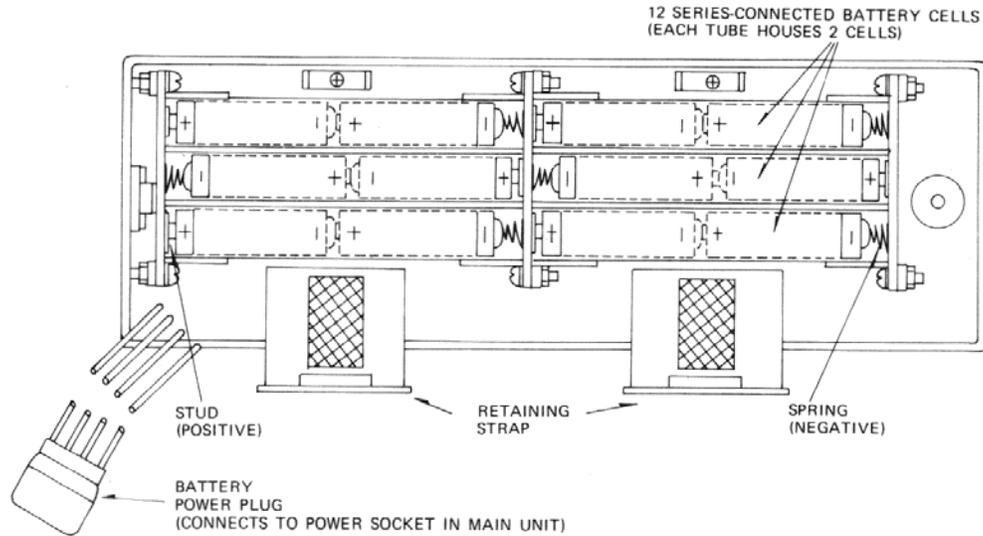


FIGURE-5

OPERATING INSTRUCTIONS

1. Extend the antenna to its full length or connect an external antenna.
NOTE: Transmitting without any antenna may damage the output transistors.
2. Turn the volume/on-off switch to the on position.
3. Check the meter to be sure your batteries are good.
4. Set the channel selector to the desired channel.
5. Adjust the volume and squelch controls.
6. To transmit, press and hold the push-to-talk bar and talk into the speaker/mike grill. Use a normal tone of voice and hold the unit about 2 to 3 inches from your mouth. To receive, release the push-to-talk bar.

For best transmission and reception when using the built in antenna, it should be held in a vertical position.

MOBILE OPERATION

This unit may be used in a vehicle, drawing its power from the car or boat battery system and using a mobile antenna installed on the vehicle. However, this unit is designed to operate from 15 volts DC and slightly reduced performance may be noticed when using a 12 volt supply system.

BASE STATION OPERATION

This unit may also be used as a base station with a suitable base station antenna.