

## **MODEL 75-820**

**40 CHANNEL PORTABLE MINI CB  
WITH 10 CHANNEL WEATHER RECEIVE  
5 MEMORY CHANNELS, MEMORY SCAN  
ALL CHANNEL SCAN, INSTANT CHANNEL 9/19  
HI/LO POWER, AUTO POWER SAVE  
BACK LIGHTED LCD DIGITAL CONTROL SCREEN**

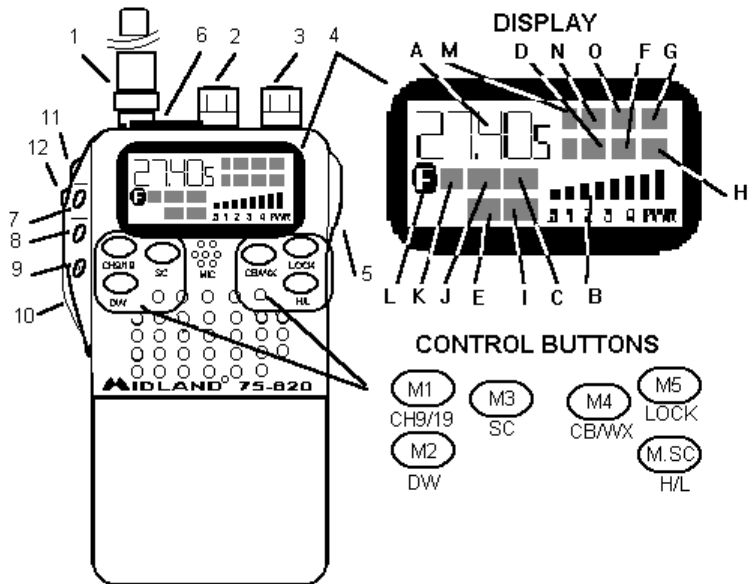
**THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.  
OPERATION IS SUBJECT TO THE CONDITION THAT THIS DEVICE  
DOES NOT CAUSE HARMFUL INTERFERENCE.**

Your 40 channel Portable CB/Weather Monitor represents the state-of-the art in high-tech engineering. Designed for 40 channel Citizen Band operation plus 10 weather channels, this compact package is big in performance. This unit is a quality piece of electronic equipment, skillfully constructed with the finest components. Surface mount circuitry is all solid - state, mounted on fiberglass printed circuit boards. It is designed for many years of reliable, trouble-free performance. Your portable CB is under control of a microprocessor resulting in enhanced features and performance. The microprocessor controls not only the CB tuning but also dual watch, memory channels, weather monitor, and a host of other useful features.

**GETTING THE MOST FROM YOUR PORTABLE CB**

Range of a CB is generally determined by environmental conditions. Range will be severely reduced when operating in a vehicle or metal building. Use of a mobile or base antenna will increase range greatly. Do not leave batteries in the unit for long periods of time, the batteries may leak and destroy the unit. Keep the unit dry and protected from moisture. If problems occur always check the batteries and antenna.

**FUNCTION AND LOCATION OF THE CONTROLS**



1. **Antenna connector:** With BNC connector type. A mobile or base station antenna (adapter required) can be used to extend range.
2. **“Squelch” Control:** For the maximum receiver sensitivity, the control must be adjusted exactly where the receiver background noise disappears.
3. **“ON/OFF” Volume Control.**  
In “OFF” position your transceiver is off. Turn this control clockwise to switch on the unit. Turn the knob clockwise a little more to set the audio level, until you get a comfortable sound level.
4. **Multifunction backlighted display.** This liquid crystal display has been enlarged to show all of the operating modes.
  - A. Shows the selected channel number or operating frequency.
  - B. Indicates the received signal strength or the relative power of the transmit signal.
  - C. RX: Indicates the receive mode is on.
  - D. EMG: Icon appears to indicate the emergency channel 9 function is activated.
  - E. LOW: Low icon appears when the low power function activated.
  - F. SAVE: Indicates the save function is activated. This is an automatic function to increase battery life.
  - G. LOCK: Indicates the keyboard lock function is activated.
  - H. BATT: When this icon illuminates, it indicates the batteries are low and should be replaced or recharged.
  - I. TX: Illuminates to indicate the unit is in the tx mode.

J. DW: Illuminates when the dual watch mode is enabled.

K. AM: Indicates the CB mode is activated.

L. "F": Indicates the function button has been activated. The function mode allows use of the modes inprinted on the function buttons face.

M. "M/1": Indicates the memory channel selection.

N. SCAN: Illuminates to indicate the scan mode is activated.

O. WX: When visible indicates your transceiver is in the weather receive mode.

Select the appropriate channel with the up/down buttons.

5. **Hand Strap Mount:** Attach the included hand strap to this point.
6. **Mic/Spk:** Plug in an optional speaker/microphone in this jack. The Midland model 22-410 speaker/mic or 22-430 throat mic with earphone is available from your Midland dealer or directly from Midland.
7. **LIGHT button:** Press and release will cause the display backlight to turn on. It will automatically shut off after a few seconds.
8. **"LCR" button:** Pressing this button will recall the last selected channel.
9. **"F" button:** This is a dual function button. Press and release to activate the "M1-M5" memory selections or for memory programming. Press and **hold** will cause the display to toggle between channel number and frequency readout.
10. **"PTT" button:** Press to activate transmit.
11. **"Channel UP" button:** To skip to the next channel in CB or weather mode. Keeping this button pressed causes rapid incrementing.
12. **"Channel DOWN":** To skip to the previous channel in CB or weather mode. Keeping this button pressed causes rapid incrementing.
13. **"Control buttons":**
  - a. "M1 CH9/19 Button"; Press this button and release to select emergency channel 9. Press and release again and highway channel 19 will be selected. Press and release again will cause return to the original channel.

To select memory channel 1; Press the "F" function button and release. Then press the "M1" button and release, memory channel 1 will be selected.

To program memory channel 1; Select the desired channel to be in memory 1. Press and release the "F" function button. Press and **hold** the "M1" button until a "beep" is heard and the M1 icon is displayed. The selected channel is now programmed in memory 1.
  - b. "M2 DW Button"; To program the 2 dual watch channels, select the first channel. Press and **hold** the "DW" dual watch button until a "beep" is heard and the DW icon begins flashing. **While the DW icon is flashing** select the second channel, then press and **hold** the DW button again until a "beep" is heard and the DW icon stops flashing. The receiver will scan between the 2 programmed dual watch channels.

To stop dual watch press the "DW" button. To resume dual watch press the "DW" button again.

To select memory channel M2 press and release the "M2" button.

To program memory channel 2 follow the instructions for programming memory channel 1, except substituting channel 2 for channel 1.

**c. “M3 SC Button”;** To start scan, set the squelch to mute the background noise. Press and release the “SC” scan button, scan will begin. The scan will stop on all channels where a signal is received with enough strength to open the squelch. The squelch will remain stopped for a few seconds after the signal disappears to allow time to answer the call. To stop scan press the SC button. Pressing the UP/DOWN or PTT buttons will also stop the scan.

To select memory channel M3 press and release the “M3” button.

To program memory channel 3 follow the instructions for programming memory channel 1, except substituting channel 3 for channel 1.

**d. “M4 CB/WX Button”;** To change between CB and weather receive, press and release the CB/WX button. To select weather channels press the up or down button.

To select memory channel M4 press and release the “M4” button.

To program memory channel 4 follow the instructions for programming memory channel 1, except substituting channel 4 for channel 1.

**e. “M5 Lock Button”;** To lock out all button functions except PTT, press and release the LOCK button. To unlock, again press and release the LOCK button.

To select memory channel M5 press and release the “M5” button.

To program memory channel 5 follow the instructions for programming memory channel 1, except substituting channel 5 for channel 1.

f. “M.SC H/L Button”; To change between high and low power, press and release the H/L button.

To scan only the 5 channels in memory locations 1 through 5, press the “F” function button and release, then press and release the “M.SC” button. To stop memory scan, press the up, down, or PTT button.

### **HOW TO OPERATE YOUR TRANSCEIVER FOR CB**

1. Insert the antenna in the antenna connector.
2. Insert 6 alkaline or nic-cad batteries into the battery compartment, noting polarity.
3. Rotate the ON/OFF volume control clockwise to turn the unit on. Adjust the volume for a normal listening level.
4. Adjust the SQUELCH control.
5. Select the desired channel by the up or down buttons.

An optional mobile adapter is available that will transform your 75-820 into a mini mobile.

Check with your Midland dealer or the Midland factory.

**Note:** If the channel will not change, check that the “LOCK” button has not been pressed. In this case, press the the “LOCK” button to deactivate this function.

**To transmit:** press and hold the PTT button, then talk into the microphone.

**To receive:** simply release the PTT button.

### **TO RECEIVE WEATHER**

Press the WX, button then select one of the channels in your area from the 10 channels available.

### **CAUTION: DON'T EXPOSE THE DISPLAY TO EXTREME HOT OR COLD TEMPERATURES**

## **CARE OF RECHARGEABLE NI-CAD BATTERIES**

Always follow the battery manufacturers recommendations for charging and disposing of ni-cad batteries.

The following is meant as general information regarding ni-cad batteries.

1. Occasionally allow the batteries to fully discharge before recharging. Full discharge will be indicated by the low battery indicator coming on during receive operation.
2. Always allow the battery to fully charge before using.
3. The above will prevent the batteries from developing “memory” which effectively reduces their capacity.
4. It is better to store ni-cad batteries that are discharged rather than charged.

## SPECIFICATIONS CB

Channels	1 through 40
Power Output	4 watts nominal
Modulation	90% +/- 5%
TX Dist	<5%
Spurious and Harmonics	<-60dbc
Receiver Sensitivity	0.7 uv for 10 db s/n
Audio output	4 watts
Selectivity	50 db

## SPECIFICATIONS WEATHER RECEIVER

### CHANNELS

<u>00</u>	<u>163.275</u>	<u>05</u>	<u>162.450</u>
<u>01</u>	<u>162.550</u>	<u>06</u>	<u>162.500</u>
<u>02</u>	<u>162.400</u>	<u>07</u>	<u>162.525</u>
<u>03</u>	<u>162.475</u>	<u>08</u>	<u>161.650</u>
<u>04</u>	<u>162.425</u>	<u>09</u>	<u>161.775</u>

Sensitivity_____	0.7 uV for 20 db
Audio Power_____	4 watts
Audio Load_____	8 ohms

## SERVICE:

If it ever becomes necessary to return your unit for service:

Pack the unit in its original box and packing. Improper packing may result in damage during shipment.

Include a full description of any problems. Include your telephone number.

You do not need to return accessory items (brackets, screws, power cord, antenna, etc) unless they may be directly related to the problem.

Include a photocopy of the bill of sale or other proof of purchase showing the date of sale. This information must be included before warranty service can be considered.

## LIMITED WARRANTY

Midland Consumer Radio Inc. will repair or replace , at its option without charge, any Midland Mobile, high power portable, FRS, or Base Station Citizens Band transceiver which fails due to a defect in material or workmanship within one year following the initial consumer purchase.

This warranty does not include any carrying cases, earphones, or telescoping antennas which may be a part of or included with the warranted product, or the cost of labor for removal or re-installation of the product in a vehicle or other mounting.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, along with proof of purchase date, to Midland Consumer Radio Inc., Warranty Service Department, 1670 North Topping Avenue, Kansas City, Missouri 64120, or to any "Midland Authorized Warranty Service Station," or to the place of purchase (if a participating dealer).

Warranty information and the location of the nearest "Midland Authorized Warranty Service Station," may be obtained by writing Midland Consumer Radio, Warranty Service Department.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Note:** The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange. For warranty coverage on merchandise purchased elsewhere, consult the supplemental warranty information included with this product or ask your dealer.

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