



MODEL 75-507

**NEW FRS "FAMILY RADIO SERVICE"
MICRO-SIZE WITH MAXIMUM POWER
14 CHANNEL, LED DISPLAY, SCAN,
DUAL WATCH, CALL BUTTON,
POWER SAVE CIRCUIT**

TABLE OF CONTENTS

Introduction.....	3
Battery Installation.....	3
Belt Clip, Quick Use Instructions.....	4
Controls and Operation.....	4,5
Battery Information and Service.....	6
Technical Specification.....	7
Warranty.....	8

OPTIONAL ACCESSORIES FOR YOUR RADIO

Accessory Name	Model Number
Standard Ni-Cad Charger	18-395
Lapel Microphone with Earbud Speaker.....	22-
Speaker/Microphone.....	22-
Stealth Type Noise Canceling Throat Mic with Earbud.....	22-
Boom Microphone Headset	22-

Call 1 816 241 8500 ext. 200 to order accessories

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

Your Midland model 75-507 brings the new FRS (Family Radio Service) to your fingertips. The Family Radio Service is provided for by the FCC and is totally license free. For the first time business and the general public can use the quiet UHF FM band for personal communications at no charge. The 75-507 uses maximum allowable power for range up to 2 miles. Use for fishing, hunting, picnics, biking, business, or any other activity where communications are needed for convenience or safety. The model 75-507 operates on 14 channels to provide the best in quiet and private communication. Also this radio offers power save, and auto-squelch.

TIPS FOR GETTING THE MOST FROM YOUR 75-507

Due to the band of operation (462/467 MHz) the 75-507 provides communications that are virtually free of atmospheric interference (skip) that is common on lower frequency bands. Along with this and an antenna system that is very efficient as compared to other unlicensed radio bands, communications range is surprisingly good. Many times the limits to maximum possible range are environmental factors such as blockage caused by trees, buildings, hills, or other obstructions. If you find communication is not possible, many times this can be overcome by moving only a few feet to a new location. Range may be reduced while operating in a vehicle or from inside to outside a metal building. Battery condition also affects range. The 75-507 operates best on alkaline batteries. While this unit has been designed with gaskets for water resistance and ruggedness it is a precision piece of electronic equipment that should not be exposed to water or handled carelessly. Normal care should result in years of trouble free operation. Do not leave batteries installed over a long period of time as leakage may occur that can destroy the radio. Always save your receipt, as it is required for warranty consideration.

PREPARATION

BATTERIES

75-507 radios operate with 4 AAA alkaline batteries or optional Ni-cad batteries. Alkaline batteries will provide about 24 hours of use. Ni-cad batteries provide about 8 hours of use. The 75-507 is not supplied with Ni-cad batteries and a wall charger or alkaline batteries. **Ni-Cad batteries must be charged prior to use.** Charge time is 10 hours with the wall charger. Do not mix battery types in the radio.

To Install Batteries:

1. Hold the radio face down. Press the battery cover firmly at the ridges.
2. Slide the battery cover off the unit.
3. Insert 4 AAA batteries observing the proper polarity.
4. Replace the battery cover by sliding it up until secure.

Low Battery/Transmit Indicator:

The "TX/BATT" LED on the front of the radio will light when the unit is transmitting and when not transmitting if the batteries are low.

BELT CLIP

The 75-507 comes standard with a belt clip. Attach it to the radio back by sliding the top of the clip up over the two rectangular bosses on the back of the radio until it snaps into place. To detach the belt clip, press the lever inside the top of the clip away from the radio body and slide the clip toward the bottom of the radio.

QUICK USE INSTRUCTIONS:

1. Install fresh or fully charged batteries.
2. Attach the antenna.
3. Turn the unit on by turning the volume control clockwise.
4. To talk press the PTT button on the side of the radio and talk into the front of the radio.
5. To listen release the PTT button.
6. Volume and other functions maybe adjusted as described later.

POWER SAVE CIRCUIT

This part of the operation of the radio is completely automatic and not adjustable. When the radio has not transmitted or received a signal for about 8 seconds it will begin to cycle from a sleep mode to fully on. This occurs several times a second. If a signal is received or you cause the unit to transmit the radio will become fully awake. This cycling from sleep to fully on increases the standby battery life more than 50%.

FEATURES AND LOCATION OF CONTROLS

The antenna must be screwed into the connector on top of the radio before using. Do not over-tighten.

TO TURN THE RADIO ON OR OFF

The ON/OFF/VOLUME control at the top of the radio controls power and volume. A series of tones will be heard confirming that radio is working.

TO CHANGE THE CHANNEL IN USE

Press and release the channel button $\wedge$ or $\vee$ to select the desired channel. To change channel rapidly, press and hold the channel button $\wedge$ or $\vee$ until the desired channel appears on the display. Note: The display will shut off in four seconds if no activity is heard on the channel.

TO SCAN THE CHANNELS

Press the SCAN button. The radio will scan to the next busy channel. Scanning will stop for about 5 seconds then will continue to the next busy channel. Note: The display will not shut off in scan mode. To stop scanning, press SCAN again or press PTT or a channel button.

TO SET UP DUAL WATCH

Select a channel with the channel button $\wedge$ or $\vee$ as channel A. Press the DW (dual watch) button. The display will begin to flash. Within 5 seconds, select a second channel as channel B and again press the DW button. (After 5 seconds the radio will beep three times and revert to normal operation) The radio will switch alternately between channels A and B. Pressing PTT, DW, $\wedge$ or $\vee$ cancels dual watch.

TO USE CALL BUTTON

Press and release the CALL button. A call signal will be sent for about 2 seconds. The signal will also be heard in the speaker.

TO ENABLE/DISABLE "ROGER-BEEP"

With the radio off, press and hold the CALL button. Turn on the radio. Release the CALL button when the TX/BATT indicator is lit. The default condition is for the "roger beep" to be on. If it is to remain off it must be turned off each time the radio is turned on.

TO ADJUST THE VOLUME

Use the ON/OFF/VOLUME control to adjust the volume. To test the volume setting, press the "MON" button so static noise can be heard. The noise can be used as a reference level for volume setting.

TROUBLESHOOTING

PROBLEM	SOLUTION
No Power	1. Check battery installation and/or replace batteries
Cannot Receive Messages	1. Make sure the volume is set high enough. 2. Change your location, you may be out of range. 3. Install batteries properly or replace.
Range is Short	1. Operating the radio in a vehicle or metal building will decrease the range. If possible operate outside of vehicles or buildings. 2. Carrying the radio so that the antenna is very near the body will decrease the range. Hold the radio in the open for the best range.
Interference/Static	1. Change your location. The interference may be caused by nearby electronic or electrical equipment.

CARE OF RECHARGEABLE NI-CAD BATTERIES

ALWAYS DISPOSE OF BATTERIES PROPERLY

Always follow the battery manufactures 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. This requires 10 hours with the included charger.
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.

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.

Include a money order for \$7.50 to cover shipping and handling (this may not be required in some states).

You do not need to return accessory items (brackets, screws, power cord, antenna, etc.) unless they maybe 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.

A flat rate of \$45.00 will apply to repairs not covered by warranty. Send only cashiers check, money order or Master Card or Visa card number.

TECHNICAL SPECIFICATIONS*

GENERAL

Frequency range.....462/467 MHz
Channels.....14
Modulation type..... FM
Antenna impedance50 Ohm
Loudspeaker.....8 Ohm 0.5W
Microphone.....electret type
Power supply.....4 AAA Ni-cads or Alkaline (4.8/6.0VDC)

RECEIVER

Sensitivity at 12dB Sinad.....0.25µV
Selectivity.....50 dB
Squelch range.....automatic
Audio output power.....0.25W @ 8 Ohm (10% distortion)
Distortion at 1000 mV.....7%
Audio frequency response.....400-2400 Hz

TRANSMITTER

RF Output Power.....nominal 500 mW @ 6.0VDC
Frequency Tolerance.....0.00025%
Harmonic Suppression.....more than 50 dB
Modulation.....FM +/- 2.5 kHz

***Specifications are nominal and subject to change**

CHANNEL FREQUENCIES

01=462.5625	05=462.6625	09=467.5875	13=467.6875
02=462.5875	06=462.6875	10=467.6125	14=467.7125
03=462.6125	07=462.7125	11=467.6375	
04=462.6375	08=467.5625	12=467.6625	

LIMITED WARRANTY

Midland Consumer Radio Inc. will repair or replace, at its option without charge, any Midland Mobile, 4 watt portable, Base Station Citizens Band, or FRS 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.

Midland Consumer Radio
1670 N. Topping
Kansas City, Mo. 64120-1224

Printed in China

Tel: (816) 241-8500
E-mail: midlndcb@midlandradio.com
URL: www.midlandradio.com