

MIDLAND 75-785 40 CH AM HANDHELD CB TRANSCEIVER

75-785 represents the state-of-the art in high-tech engineering. Designed for 40 channels Citizen Band Mobile operate, this transceiver is big in performance. The unit, useable both in professional purposes and private situations such as leisure activities, is a quality piece of electronic equipment, skilfully constructed from the finest components. The circuitry is all a solid-state, mounted on rugged printed circuit boards. It is designed for many years of reliable, trouble-free performance. Your mobile CB has a built 40 channel Phase-Locked Loop synthesizer circuit. The PLL circuit achieves a new technique for generating all the required frequencies with fewer crystals. The result is much tighter frequency control and superior reliability.

Main features:

- Condensor microphone.
- Ceramic filter: delivers greater selectivity and reduces adjacent channel interference.
- AGC (automatic gain control) for a constant sound level
- Automatic modulation control for a constant audio transmit modulation level.
- Low distortion IC audio circuit.
- Automatic noise limiter to reduce pulse noise.
- "HI-LO" switch: reduces the output power.
- Antenna with BNC connector.
- Jack for external power source and battery charger.

ADVICES :

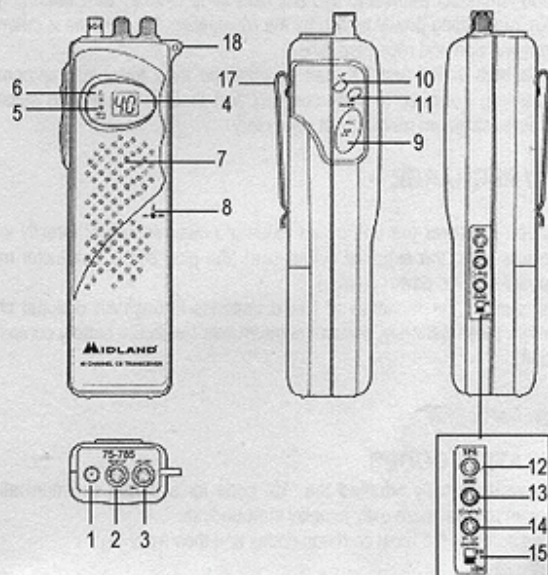
- While **75-785** has been designed for many year of reliable, trouble-free performance, it is a precision piece of electronic equipment that should not be exposed to water or to extreme temperatures.
- Do not leave batteries installed over a long period of time, as leakage may occur and this can destroy the radio.
- Never use different batteries from the ones suggested.
- Clean the unit with a damp cloth only; do not use harsh chemicals.

CARE OF OPTIONAL RECHARGEABLE NI-CD BATTERIES

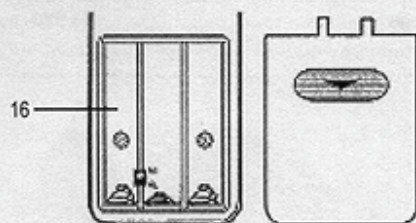
The following is meant as general information regarding Ni-Cd batteries.

- Always allow the battery to fully charge before using.
- Allow the batteries to fully discharge before recharging. Full discharge will be indicated by the "BATT/LOW" indicator.
- The above will prevent the batteries from developing "memory" which effectively reduces their capacity.
- It is better to store Ni-Cd batteries that are discharged rather than charged.
- Never use batteries which differ from the ones recommended. Do not mix old and new batteries or batteries of different capacities.
- If you experience problems when using the transceiver, check the following :
 - A. Batteries must be in good condition;
 - B. The volume level and the squelch control setting;
 - C. The channel selector for an active channel;
 - D. The antenna must be properly inserted.

CONTROLS AND INDICATORS



- 1. Antenna connector:** with BNC connector type. To obtain better results, use either a telescopic or an external antenna.
- 2. Squelch knob:** for the maximum receiver sensitivity, the control must be regulated 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 reception.
- 4. Display:** Indicates the selected channel (from 1 to 40). The display turns off when the squelch is operative.
- 5. "BATT LOW" LED:** This indicator lights when the batteries are low. Replace the alkaline or recharge the AA Ni-Cd batteries.
- 6. "TX" LED:** The indicator lights when the unit is transmitting.
- 7. Speaker**
- 8. Microphone:** during transmission, keep your mouth 4 cm far from the unit, and speak with a normal tone of voice to the microphone.
- 9. Push to talk button ("PTT"):** By pressing it, the transmitter is activated. When released, you activate the receiver.
- 10. "Channel UP" button:** To skip to the next channel. Keeping this button pressed, the "autorepeat" function is obtained.
- 11. "Channel DOWN" button:** To skip to the previous channel. Keeping this button pressed, the "autorepeat" function is obtained.
- 12. "SPK" jack:** external loudspeaker jack (the internal loudspeaker is excluded).
- 13. "PTT/MIC" jack:** PTT jack / external microphone.
- 14. 13.8 Vdc CHARGE:** Power supply/charge jack. You can charge the unit from external sources (car battery, etc.) and to recharge the Ni-Cd batteries.
- 15. "HI/LOW" interrupter:** It selects the output power level during transmission.
- 16. Battery compartment:** Insert 9 AA type alkaline or Ni-Cd batteries. (Note: alkaline batteries are not rechargeable).
- 17. Belt clip**
- 18. Hole for wrist belt**



HOW TO OPERATE WITH YOUR TRANSCEIVER

1. Insert the antenna to the antenna connector.
2. Insert 9 AA alkaline or Ni-Cd batteries into the battery compartment (pay attention to the polarity). When using Ni-Cd batteries, switch the interrupter inside this compartment to "Ni" position: in this way, the Ni-Cd batteries can be charged by an optional charger. Select the "AL" position when using the alkaline batteries.
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/DOWN" buttons.

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

To receive: simply release the PTT button.

ANTENNA

The 75-785 antenna connector permits to use any kind of 50 Ohm/27 Mhz band antennas. Being the allowable transmitting power limited by the regulations, the antenna is determining as to the radio's transmission and reception range. Better achievements both in RX and TX, can be obtained by a telescopic antenna. The supplied rubber antenna, however, is more compact and practical to use: it is suitable for communications where maximum range is not necessary.

POWER JACK / RECHARGE

This jack enables you to power the unit by an external power source or directly with the battery of your vehicle using the supplied power cord (the plug center conductor must be connected to the positive of the power source).

The jack, besides, permits the recharge of Ni-Cd batteries through an optional charger. (Attention: to recharge these batteries, switch the interrupter inside the battery compartment onto the "Ni" position).

CB COMMUNICATION CODES

Radio operators have universally adopted the "10" code for standard communications. It enables them to communicate more easily in noisy surroundings.

Herebelow you'll find some of the most common codes and their meaning:

| Code | Meaning |
|-------------|------------------------------------|
| 10-1..... | Receiving poorly |
| 10-2..... | Receiving well |
| 10-3..... | Stop transmitting |
| 10-4..... | OK-understood |
| 10-6..... | Busy-stand by |
| 10-7..... | Out of service – leaving air |
| 10-8..... | In service – subject to call |
| 10-9..... | Please repeat |
| 10-10..... | Transmission completed-standing by |
| 10-13..... | Road advices – weather conditions |
| 10-20..... | What is your location? |
| 10-33..... | Emergency traffic |
| 10-36..... | Exact time |
| 10-41..... | Switch to channel |
| 10-62..... | Cannot receive – use phone |
| 10-70..... | Fire at |
| 10-200..... | Police needed at |

SPECIFICATIONS

General

| | |
|--------------------------|----------------------------------|
| Channels | 40 AM |
| Frequency range | 26.965 – 27.405 Mhz |
| Frequency control | PLL |
| Temperature range | -10°C to +55°C |
| Loudspeaker | 8 Ohm 0.5 Watt |
| Microphone | Electret type |
| Power supply range | 13.8Vdc nom. - 10.9Vdc - 15.6Vdc |
| Dimensions | 55 x 180 x 45 mm |
| Weight | 255 gr |

Receiver

| | |
|------------------------------------|---|
| Receiving system | Superheterodyne with double conversion |
| I.F. | 1 st IF : 10.965 Mhz – 2 nd IF: 455 KHz |
| Sensitivity | Less than 1 µV for 10 dB (s+n)/N |
| Audio output power @10% THD | 0.5 W @ 8 Ohm |
| Audio distortion | less than 8% @ 1 KHz |
| Image rejection | 65 dB |
| Adjacent channel selectivity | 65 dB |
| Signal noise ratio | 45 dB |
| RX consumption | 60 mA |

Transmitter

| | |
|-------------------------------------|------------------------------|
| Output power | 4 W @ 13.8 VDC |
| Modulation | 85% to 95% |
| Audio frequency response | 400 Hz to 2.5 KHz |
| Frequency tolerance | 0.005% |
| Harmonic emission suppression | better than 70 dB |
| Current consumption | 900 mA (without modulation). |

Specifications are subject to change without notice.

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

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.

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

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