

MIDLAND®



77-104

OWNER'S MANUAL

40-Channel mobile citizens band transceiver.

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Welcome to the world of Midland electronics.

Congratulations. You've just graduated to the state of the art in mobile CB power, clarity and operating convenience.

In the years ahead, you can expect to realize — time and time again — the real reasons and meaning of the front running position Midland holds among CB users everywhere.

And you'll come to know that Midland Power is more than just a slogan, but the heading of a long list of hearable, seeable benefits.

Like controls designed and located for maximum convenience and ease of operation.

And like the assurance that comes from knowing the nationwide Midland service

network goes with you everywhere you take and use your Midland CB.

As your Midland CB experience unfolds and grows, we hope you'll remember that CB is only one kind of electronic excellence available under the Midland nameplate.

Remember that the same dependability, range and clarity engineered into your CB are also built into a long, versatile line of Midland car stereo receivers, telephones and other electronic Products.

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Midland 77-104

40-channel mobile
CB transceiver.



Features:

State-of-the-art techniques have been used in the electronics of your new Midland CB.

Including Midland Power performance — with a transmitter rated for legal maximum 4-watt output power with high level modulation in accordance with FCC Part 95.

Plus a highly sensitive, selective dual-conversion superheterodyne receiver with tuned RF stage and built in, automatic noise limiter — certified to FCC Part 15 requirements.

Outside, it's designed to give you the most convenient operation possible.

No other design aspect has been given more attention than the time- and motion-saving features built into your new radio, microphone and mounting system.

You'll find and enjoy the benefits of this attention to detail all across the control panel. For example:

- Large-scale, easy-reading green LED 40-channel indicator.
- Full-range, variable squelch control.
- Fully, electronic signal/power meter.
- Front Mounted plug-in deluxe microphone.
- Precision PLL (Phase Locked Loop) tuner.
- Fresh, attractive styling with satinfinish bezel.
- Mounting bracket for easy installation and removal.
- Rugged all metal cabinet.
- New sub miniature size-fits almost anywhere in any car.

Midland 77-104 mobile CB Operating controls.

Midland 77-104
40-channel mobile
CB transceiver



Modern green high intensity
40-channel indicator.

Squelch control

Electronic
signal/power
meter

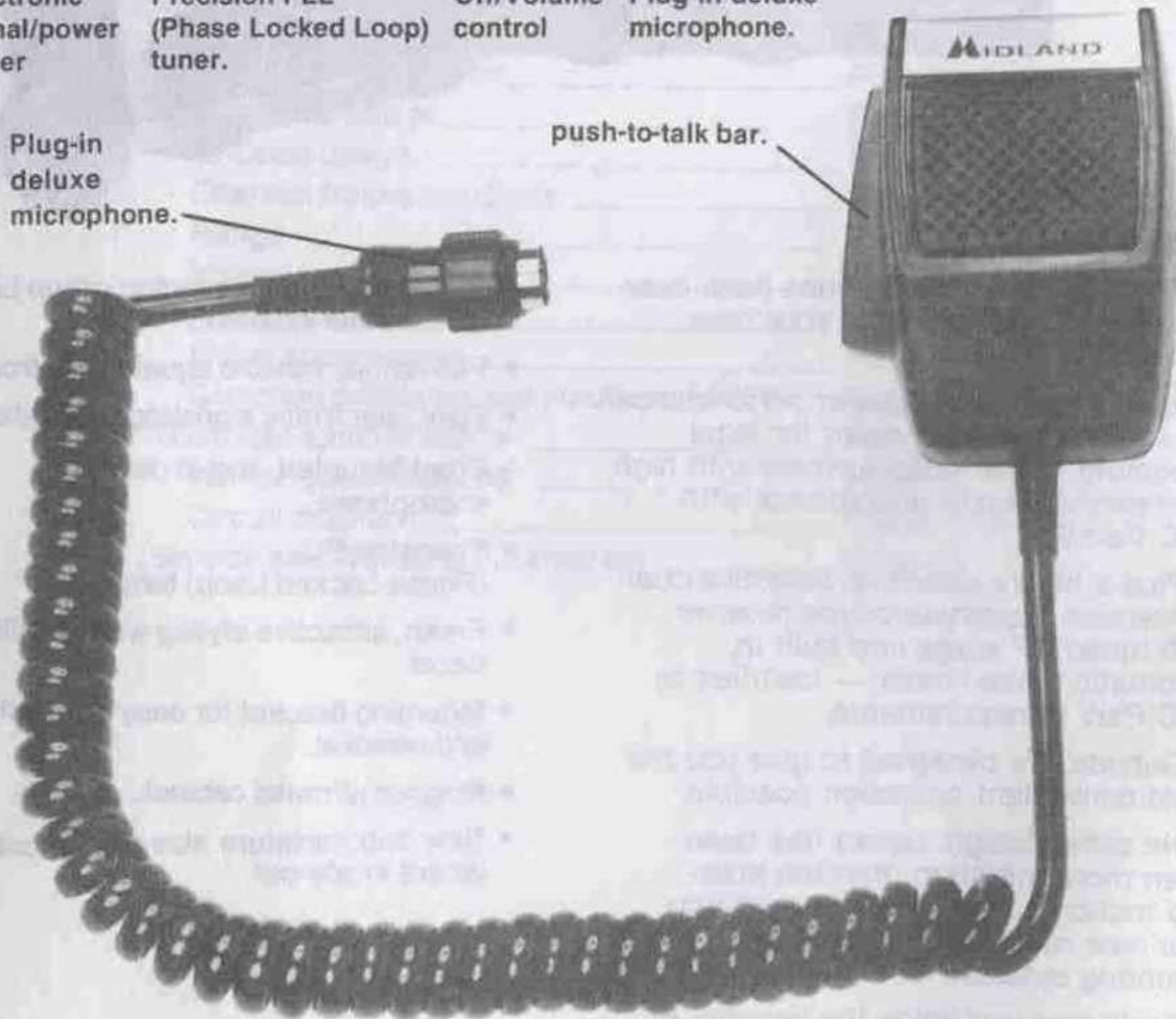
Precision PLL
(Phase Locked Loop)
tuner.

Off/Volume
control

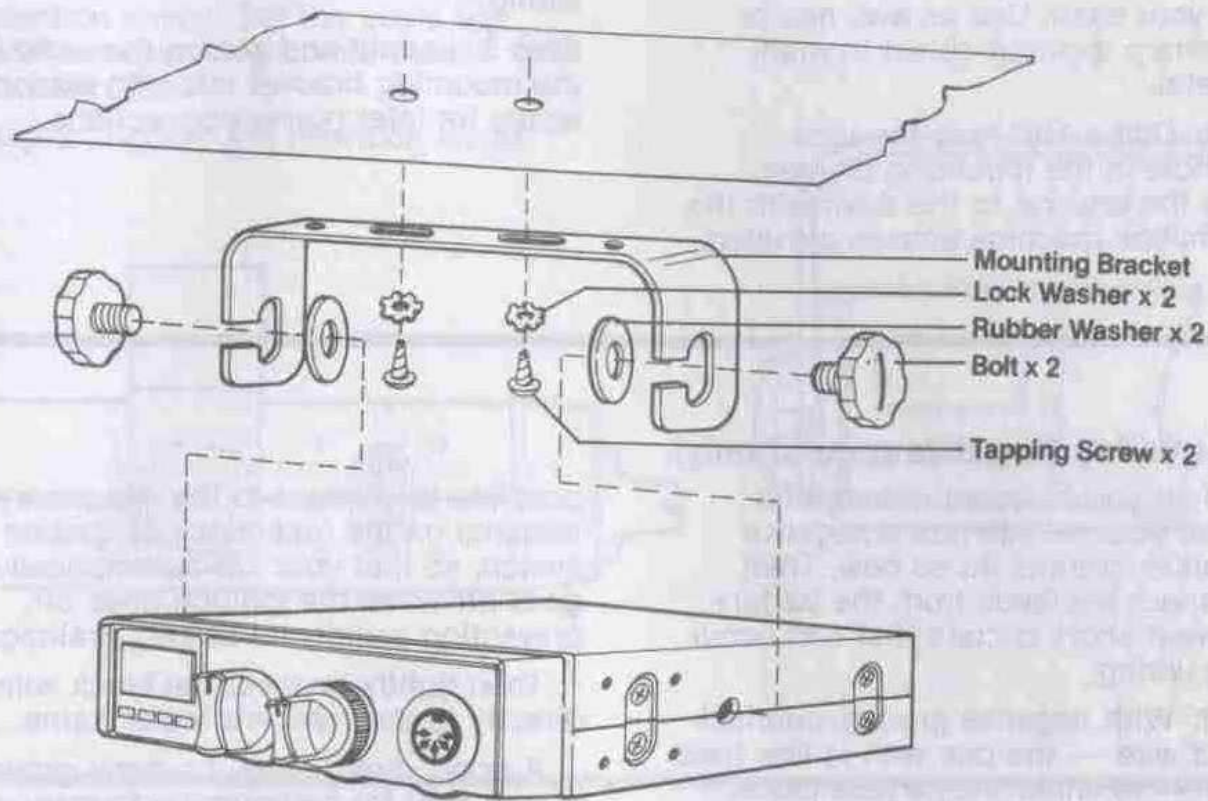
Plug-in deluxe
microphone.

Plug-in
deluxe
microphone.

push-to-talk bar.



How to install your Midland mobile CB.



This transceiver may be installed in any **12-volt negative ground-system** car or truck. Most current U.S. and foreign vehicles use a negative system, but some older models and some newer large trucks may have a positive ground.

Check the requirements for your vehicle before you begin installation.

Generally, you have a **negative-ground** system if the minus (-) battery terminal is connected to the motor block. Contact your dealer in the event you are unable to determine your vehicle's polarity system.

Installation and operating accessories furnished with your Midland Mobile CB:

1. Easy-removal mounting bracket system.
2. Microphone bracket system.
3. All main-unit and microphone mounting hardware needed for normal installation.
4. Plug-in microphone with coil cord.

5. FCC Part 95, Subpart D.
6. Owner's Manual.

Where to locate your CB transceiver.

Your new Midland CB is designed to be installed under the dash of your vehicle.

Safety and convenience are the primary considerations in deciding exactly where to locate your radio.

Caution: *Be sure that the unit is located so that it does not interfere with the driver or impair access to any controls. Connecting cables must be routed and secured in such a manner as not to interfere with the operation of the brake, accelerator or other controls. Interference from either the unit or connecting cables may contribute to the loss of control of the vehicle.*

Mechanical mounting.

Step 1: Heeding the caution, use the mounting bracket as a template for marking the location of screwholes under your dash. Use an awl, nail or other sharp, pointed object to mark the metal.

Step 2: Drill a 1/8" hole for each screwhole in the mounting bracket. Attach the bracket to the dash with the 3/8" Phillips machine screws provided.

Extreme care should be exercised when drilling into dash to avoid damage to under-dash electronic ignition, cruise control, instrument and/or accessory wiring.

Step 3: Locate and secure the radio into the mounting bracket allowing working space for later power connections.

Power wiring (negative ground only).

Step 1: If you have not determined whether your vehicle has a negative or positive ground, do so now. Then disconnect the leads from the battery to prevent short circuits that can occur during wiring.

Step 2: With negative ground, connect the red wire — the one with in-line fuse holder — to either the (a) fuse block, (b) cigarette lighter or (c) directly to the positive post on your battery.

(Usually, the fuse block is the most convenient connecting point. It is also

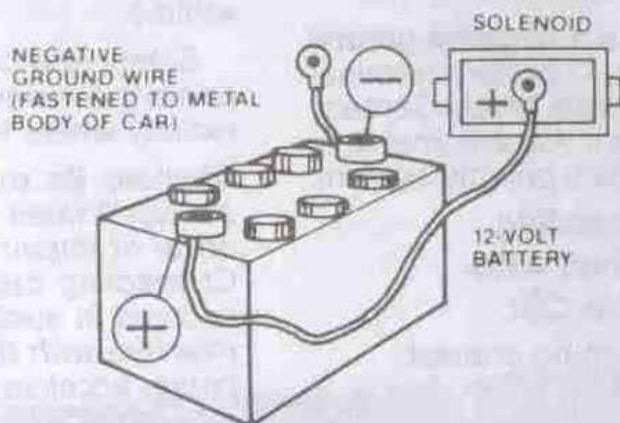
possible to connect to the Accessory terminal on the fuse block or ignition switch, so that your CB automatically goes off when the ignition goes off, preventing accidental battery drainage.)

Then tightly connect the black wire directly to the vehicle's metal frame.

A good, direct metal-to-metal ground is essential for optimum performance.

Step 3: Plug-in the power cord to the receptacle provided on the back of the transceiver.

CAR'S MOTOR BLOCK OR FIRE WALL GROUND

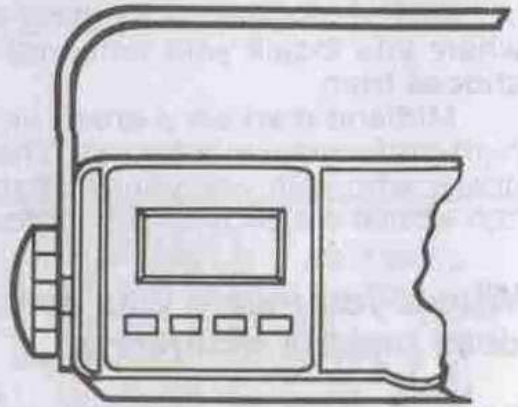
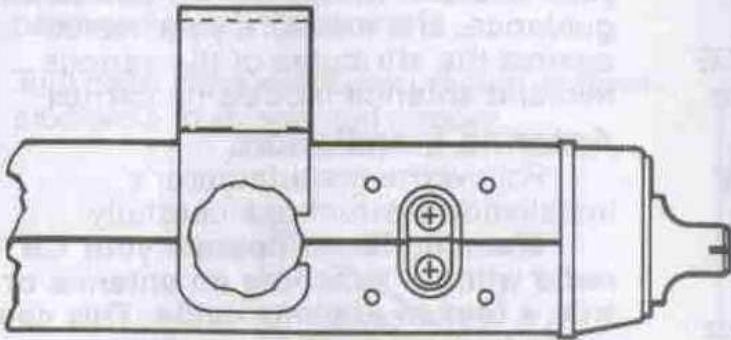


EXAMPLE OF NEG. GROUND 12-V DC CAR BATT CONNECTION ILLUSTRATION MOST CARS & TRUCKS ARE THIS TYPE

Mounting the main unit.

Step 1: Position the main unit between the bracket arms in line with the retention knobs. Set the angle for optimum operating comfort and accessibility.

Step 2: Tighten the retention knobs.



Installation of microphone hanger.

Mounting holes are provided on the microphone hanger bracket. The bracket can be attached to the vehicle dash, or other convenient location.



Antennas: How to select, position, install and tune the right one for you.

Basically, you have two types of mobile CB antennas — full-length whip and loaded whip — and a variety of types of mounts (depending on where you locate your antenna) to choose from.

Midland markets a broad line of high-performance antennas. The dealer who sold you your Midland CB can advise which type is best for you.

Where you locate your antenna does make a difference.

Some general rules for antenna location that can aid CB performance:

1. Put your mount as high on the vehicle as possible.
2. The higher the proportion of antenna length that is above the roof, the better.
3. If possible, mount the antenna in the center of whatever surface you choose.
4. Keep antenna cables away from noise sources, such as the ignition system, gauges, etc.
5. Make sure you have a solid metal-to-metal ground.
6. Exercise care to prevent cable damage.

Essentially, you have five location choices: the roof, gutter, rear deck, front cowl or rear bumper.

Where you decide to locate your antenna will determine the type of antenna you install. Again, consult your Midland CB Dealer for advice and guidance, and measure your needs against the attributes of the various Midland antenna models he carries.

Antenna installation.

Follow the manufacturer's installation instructions carefully.

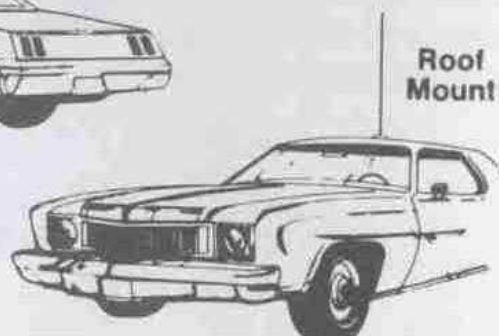
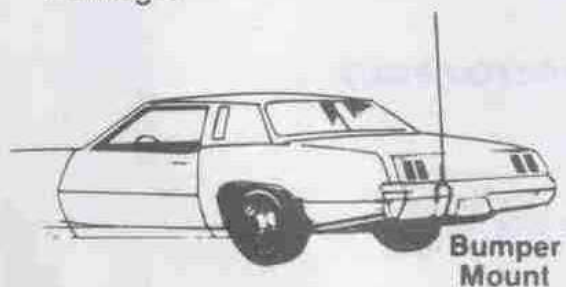
Warning: Never operate your CB radio without attaching an antenna or with a broken antenna cable. This can result in damage to transmitter circuitry.

Tuning your antenna.

Some antennas are factory tuned. However, performance can usually be improved by slightly lengthening or shortening its length, using a Standing Wave Ratio (SWR) meter.

For the exact procedures to be used, refer to the antenna manufacturer's installation manual.

You can buy an SWR meter separately or have your antenna checked by your Midland CB Dealer's service department.

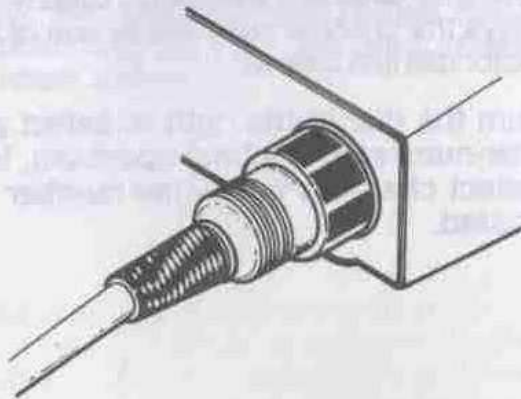


Midland 77-104 Operating Instructions.

Having properly installed and wired your CB and antenna, you are now ready for the six steps designed to get you into effective, satisfactory operation:

Step 1: Insert the plug from the microphone into the microphone jack on the front side panel and check for secure fit.

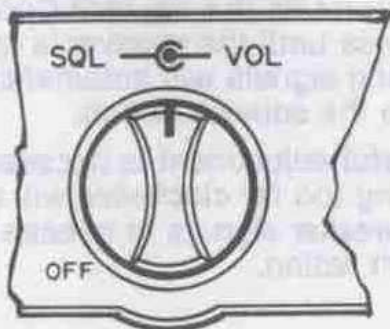
Turn collar clockwise to secure plug, counter-clockwise to loosen and remove.



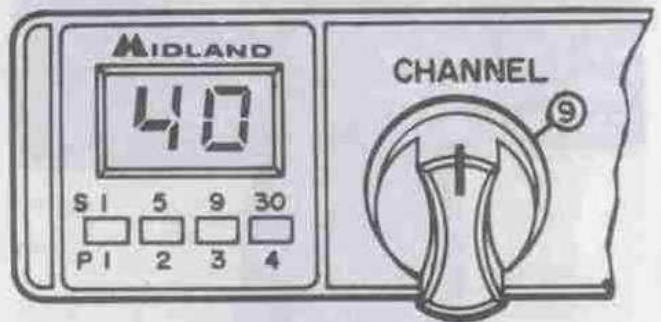
Step 2: Make sure your antenna is securely connected to the antenna connector.

Step 3: Make sure the Squelch control is in the 9 o'clock position.

Step 4: Turn the power on and adjust the "Volume" control for a satisfactory sound level.



Step 5: Select your desired channel by turning the Channel Selector dial to the right of the LED digital indicator clockwise (up) or counter-clockwise (down).



Step 6: To transmit, press the Push-to-talk bar on the microphone. To receive, release the bar.



Operating controls, connectors: Their functions and uses.

Starting at the upper left (driver's side) of your Midland 77-104 and moving counter-clockwise:



A Electronic Signal/Power Meter. This high-visibility meter is used two ways. (1) When receiving, it gives the relative strength of incoming signals. (2) When transmitting, it shows the amount of power out put by your transmitter.

High Intensity Modern Green Lighted LED Digital Channel Indicator. Clearly displays the channel selected by use of the selector dial just below.

Turn the dial to the right to select a higher-numbered channel spectrum, left to select channels below the number indicated.



B Off/Volume Control. Turns your CB on and adjusts the sound level for comfortable reception.

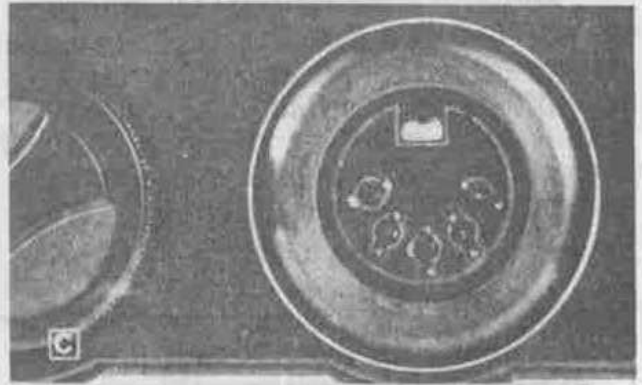
Squelch Control. Turned clockwise, it quiets the receiver when signals are not being received and allows a quiet standby operation.

The Squelch Control functions only in the receive mode and does not affect 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 action.

Careful adjustment is necessary as a setting too far clockwise will not allow weaker signals to release the squelch action.

C Microphone Connector. Securely links your microphone to the main unit during use, yet allows quick disconnection when out of service.



D Microphone Push-To-Talk Bar. Simply push this bar in to transmit; release when receiving.



E External Speaker Jack. Allows you to attach an external speaker that will override the unit's internal speaker. Connection is made through the External Speaker Jack, also on the back panel.



Midland International Corporation hereby certifies that this unit has been designed, manufactured, FCC type accepted and certified in accordance with Part 95 and Part 15, Subpart C, of the current FCC rules and regulations as of the date of manufacture.

NOTICE!

EFFECTIVE IMMEDIATELY YOU ARE NO LONGER REQUIRED TO OBTAIN A F.C.C. LICENSE FOR OPERATION OF YOUR CITIZENSBAND TRANSCEIVER.

YOU MAY NOW USE YOUR CITIZENSBAND EQUIPMENT RIGHT AWAY WITHOUT FILLING OUT A FORM OR CONTACTING THE FCC.

General CB information.

In 1958, The Federal Communications Commission approved the use of 23 channels by duly licensed Citizens Band radio operators. The authorization was expanded to 40 channels in 1977.

A simple, basic means of communication, CB requires no more skill or knowledge than the operation of a standard AM or FM receiver.

Still, there are certain facts, procedures and "rules of the road" you'll need to know in order to make the most of your CB experience.

Make it "short and sweet." When using your CB, get on and off the air as quickly as possible. Never use profanity — which is against the law and subject to heavy penalties. Follow the FCC rules outlined in Part 95.

Use Channel 9 in emergencies only. Emergency channel 9 is designated for this purpose and this purpose alone.

The FCC has given public safety agencies various "call signs" including "0911" numbers, coinciding with the "911" phone numbers these agencies use in telephone communications.

The call signs for state-level agencies use 3 letters and 4 numbers, with the second and third letters being the official Post Office state abbreviation, e.g., "KS" for "Kansas."

Why and how to use the "10 Code." Developed over the years by official agencies in order to save time and provide precise, clear messages, the "10-Code" has become a popular tool for CBers.

The table below lists some of the more common codes and their meanings.

| Code | Meaning |
|--------|--|
| 10-1 | Receiving poorly. |
| 10-2 | Receiving well. |
| 10-3 | Stop transmitting. |
| 10-4 | OK, message received. |
| 10-5 | Relay message. |
| 10-6 | Busy, stand by. |
| 10-7 | Out of service; leaving the air. |
| 10-8 | In service, subject to call. |
| 10-9 | Repeat message. |
| 10-10 | Transmission completed, standing by. |
| 10-11 | Talking too fast. |
| 10-12 | Visitors present. |
| 10-13 | Advise weather/road conditions. |
| 10-16 | Make pickup at. |
| 10-17 | Urgent business. |
| 10-18 | Anything for us? |
| 10-19 | Nothing for you; return to base. |
| 10-20 | My location is. |
| 10-21 | Call by telephone. |
| 10-22 | Report in person to. |
| 10-23 | Stand by. |
| 10-24 | Completed last assignment. |
| 10-25 | Can you contact? |
| 10-26 | Disregard last information. |
| 10-27 | I am moving to Channel. |
| 10-28 | Identify your station. |
| 10-29 | Time is up for contact. |
| 10-30 | Does not conform to FCC rules. |
| 10-32 | I will give you a radio check. |
| 10-33 | Emergency traffic. |
| 10-34 | Trouble at this station. |
| 10-35 | Confidential information. |
| 10-36 | Correct time is. |
| 10-37 | Wrecker needed at. |
| 10-38 | Ambulance needed at. |
| 10-39 | Your message delivered. |
| 10-41 | Please turn to Channel. |
| 10-42 | Traffic accident at. |
| 10-43 | Traffic tie-up at. |
| 10-44 | I have a message for you. |
| 10-45 | All units within range report. |
| 10-50 | Break channel. |
| 10-60 | What is next message number? |
| 10-62 | Unable to copy; use phone. |
| 10-63 | Network directed to. |
| 10-64 | Network clear. |
| 10-65 | Awaiting your next message/assignment. |
| 10-67 | All units comply. |
| 10-70 | Fire at. |
| 10-71 | Proceed with transmission in sequence. |
| 10-77 | Negative contact. |
| 10-81 | Reserve hotel room at. |
| 10-82 | Reserve room for. |
| 10-84 | My telephone number is. |
| 10-85 | My address is. |
| 10-91 | Talk closer to mike. |
| 10-93 | Check my frequency on this channel. |
| 10-94 | Please give me a long count. |
| 10-99 | Mission completed; all units secure. |
| 10-200 | Police needed at. |

Frequency-channel number chart.

| Frequency | Channel |
|------------------|---------|
| 26.965 MHz _____ | 1 |
| 26.975 MHz _____ | 2 |
| 26.985 MHz _____ | 3 |
| 27.005 MHz _____ | 4 |
| 27.015 MHz _____ | 5 |
| 27.025 MHz _____ | 6 |
| 27.035 MHz _____ | 7 |
| 27.055 MHz _____ | 8 |
| 27.065 MHz _____ | 9 |
| 27.075 MHz _____ | 10 |
| 27.085 MHz _____ | 11 |
| 27.105 MHz _____ | 12 |
| 27.115 MHz _____ | 13 |
| 27.125 MHz _____ | 14 |
| 27.135 MHz _____ | 15 |
| 27.155 MHz _____ | 16 |
| 27.165 MHz _____ | 17 |
| 27.175 MHz _____ | 18 |
| 27.185 MHz _____ | 19 |
| 27.205 MHz _____ | 20 |
| 27.215 MHz _____ | 21 |
| 27.225 MHz _____ | 22 |
| 27.255 MHz _____ | 23 |
| 27.235 MHz _____ | 24 |
| 27.245 MHz _____ | 25 |
| 27.265 MHz _____ | 26 |
| 27.275 MHz _____ | 27 |
| 27.285 MHz _____ | 28 |
| 27.295 MHz _____ | 29 |
| 27.305 MHz _____ | 30 |
| 27.315 MHz _____ | 31 |
| 27.325 MHz _____ | 32 |
| 27.335 MHz _____ | 33 |
| 27.345 MHz _____ | 34 |
| 27.355 MHz _____ | 35 |
| 27.365 MHz _____ | 36 |
| 27.375 MHz _____ | 37 |
| 27.385 MHz _____ | 38 |
| 27.395 MHz _____ | 39 |
| 27.405 MHz _____ | 40 |

Factors affecting effective CB range.

Essentially, they're the same influences that optimize or limit AM, FM and other kinds of performance in moving vehicles:

Terrain: Hills and valleys naturally interrupt and shorten CB signals.

Weather. You can expect that CB range will be reduced — perhaps drastically — in times of atmospheric disturbance, such as in a thunderstorm or heavy snow. Sunspots, too, are known to adversely affect CB performance.

Obstructions. Inside a tunnel, covered parking garage or viaduct, CB sending/receiving capability may be cut off altogether.

In short, you can expect to maintain maximum transmitting/receiving performance in flat, open country in stable (not necessarily clear) weather conditions.

Should effective range be limited in these conditions, check to see that your CB is connected properly and your antenna adjusted correctly. It may be necessary to consult your Midland CB Dealer's service department.

What causes noise?

If you have an abnormal noise problem, the chances are your vehicle itself is the cause.

A CB receiver is a very sensitive instrument, able to pick up small noise signals and amplify them — particularly if the source of these signals is within a few feet of your CB.

Any noise that comes from your CB almost certainly comes from outside the unit itself. Devices have been designed into your Midland CB (a noise blanker or an automatic noise limiter, for example) to minimize this kind of distraction.

Trouble-shooting aids.

Frequently, there are simple, quick actions you can take to eliminate or minimize such problems as interference and noise.

Noise suppression.

A very common source of excessive noise is the ignition system of a CB owner's vehicle. If you suspect this is true, simply turn off the ignition and set the key in the accessories (ACC) position.

This way you'll provide power to the transceiver, minus any ignition interference that might exist. If the noise goes away, you know instantly that the ignition system is the culprit.

Still, there are a number of places in the ignition system where noise can originate.

Sparkplugs and sparkplug wires are probably the worst noise producers. To eliminate this kind of noise, you can take any of four simple measures: (1) Install resistive sparkplug suppressors, (2) resistor sparkplugs or (3) resistance-wire cabling, between plugs and the distributor and also between the distributor and ignition coil. (4) Replace old plugs and sparkplug wiring and properly tune the engine. This generally cures most noise.

Many cars come suppressor-cable equipped. If yours didn't (consult your vehicle owners manual or dealer service department to be sure), you can get it at any auto supply store and, given a moderate amount of mechanical skill, install it yourself.

Caution: Do not undertake any ignition-system repairs or modifications without either professional help or some automotive service experience.

Generator-brush sparking can create an annoying "whine." It's caused by a dirty commutator, and is eliminated by polishing its surface with fine-grade emery cloth, and cleaning grooves with a small, sharp tool.

Voltage regulators can cause a "hashy" sound in your CB when relay contacts jitter open and closed when the battery is fully charged. To eliminate this noise, mount coaxial feedthrough capacitors at the battery and armature terminals on the regulator box.

Alternator slip rings should also be kept clean and good brush contact maintained to minimize CB noise.

In addition, single-contact alternator regulator boxes need a coaxial capacitor at the ignition terminal. Double-contact units should have a second capacitor at the battery terminal. Shielding between the regulator and alternator may be needed as well. Be sure to ground the shield at both ends.

Infrequent, though real, noise generators like your car's heat fan, turn signals, electric-windows and windshield-wiper motors can also be silenced with a coaxial capacitor (consult your serviceman).

Wheels and tires can also cause CB noise also. Wheel noise is eliminated by putting static-collector springs between the wheel spindle bolt and grease retainer cup. Tire static can be quieted with antistatic powder applied inside each wheel.

Antenna corona-discharge noise — most frequently occurring with sharp-pointed "whip" models — can happen just before or during electrical storms. The only cure is for the storm to blow over or pass.

SOLUTIONS:

COMMON CB PROBLEMS:

| | Check power cable connection. | Check fuse. | Check Squelch adjustment. | Check on/off switch. | Change to active channel. | Check antenna connection and cable. | Fully depress push-to-talk bar. | Check microphones connection. | Check metal-to-metal ground connection. |
|-----------------------------|-------------------------------|-------------|---------------------------|----------------------|---------------------------|-------------------------------------|---------------------------------|-------------------------------|---|
| No sound or channel light. | • | • | | • | | | | | • |
| Channel light but no sound. | | | • | | • | | • | • | |
| No voice reception. | | | • | • | | | | | |
| Poor reception. | | | | | • | | • | | |
| Transmission problems. | | | | | • | • | • | • | |
| Unclear reception. | | | | | • | | | • | |

Caution: The fuse included with this unit is an important safety feature which must not be circumvented. Removal of this fuse or the use of a fuse rated greater than 2 supplied may result in overheating and/or fire and consequential damage to the unit or vehicle. If a replacement fuse burns out, have the unit inspected and repaired by a qualified service technician.

Midland 77-104 Mobile CB Transceiver: Technical Specifications.

General Construction.

1. Unit size: 1-1/4" h x 4-1/2" w x 6-11/16" d
2. Unit weight: 1 lb. 10 oz.
3. Shipping weight: 2 lb. 12 oz.
4. Five-pin DIN connector for microphone.
5. No mechanical relays. All switching is solid state using diodes and transistors for high reliability.
6. Transmitter output stage is protected from mismatch, no-load or short-circuit conditions.
7. Input power is suitably filtered and bypassed to prevent alternator "whine" on transmit or receive.

Electrical Specifications.

All test conditions and methods are in accordance with EIA standards RS-382 and RS-424 or applicable government regulations.

Frequency Control: PLL

Receiver Sensitivity: 0.7 μ V for 10 dB (S+N)/N.

Receiver Selectivity: More than 45 db \pm 10 KHz.

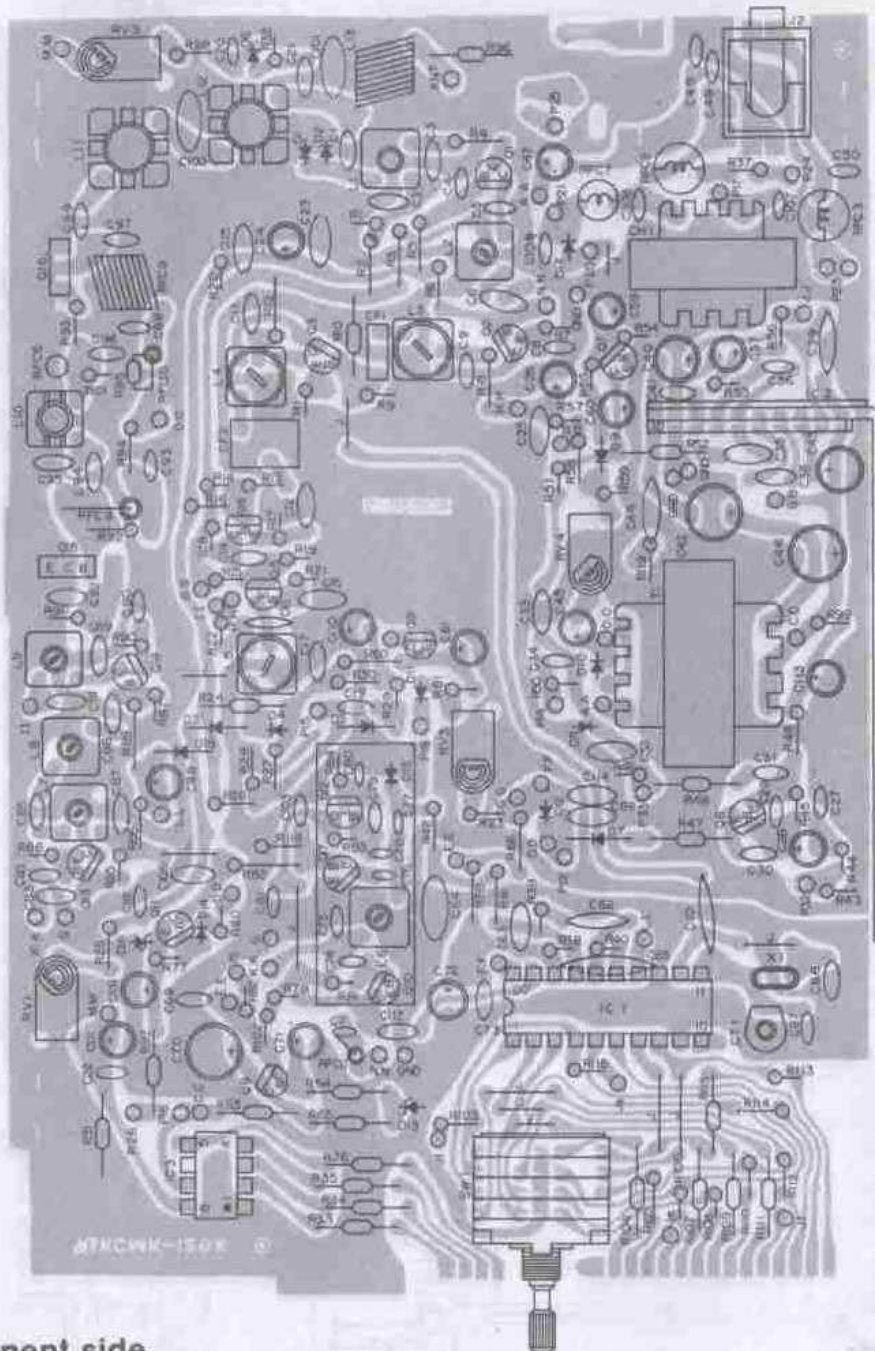
Controls: On/off/volume. Variable squelch. Channel selector. Signal/power meter. LED channel indicator. Push-to-talk bar (on microphone).

Jacks and Connections: Microphone. 50-ohm antenna. 8-ohm external speaker.

Accessories Included: 500-ohm push-to-talk microphone with coil cord and plug-in connector. Microphone clip. Slotted mounting bracket and hardware. Owners manual. Part 95, Subpart D.

Schematic Diagram

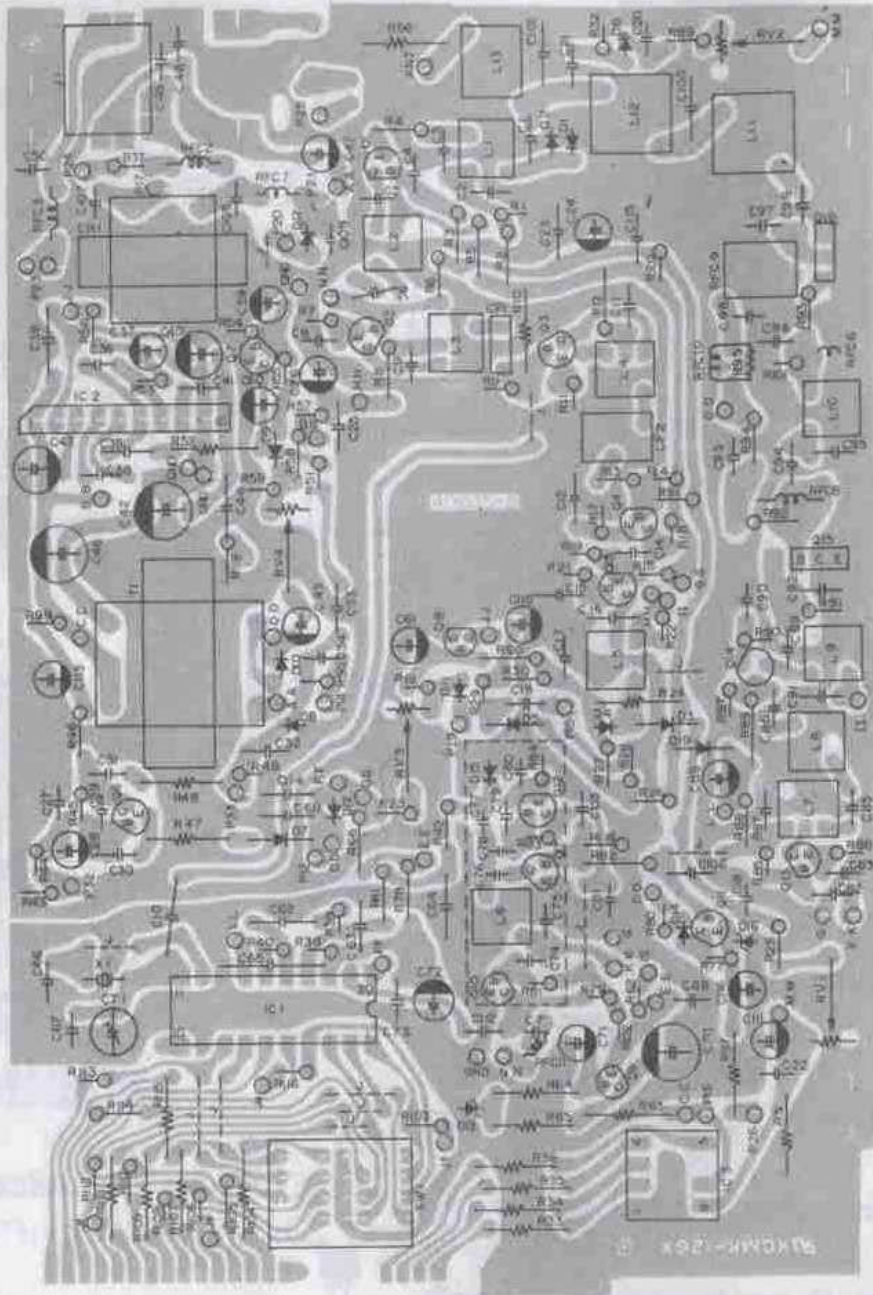
Parts Layout. Main PC Board.



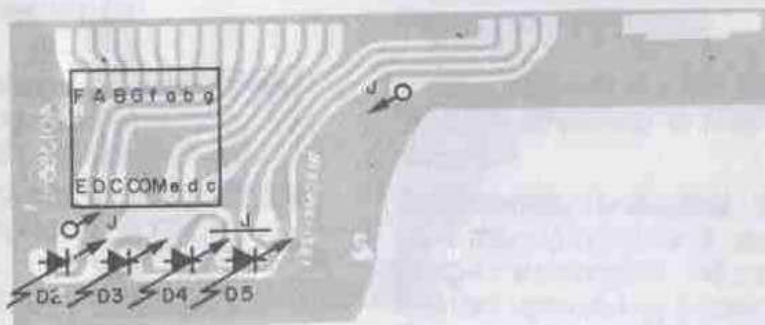
Component side.



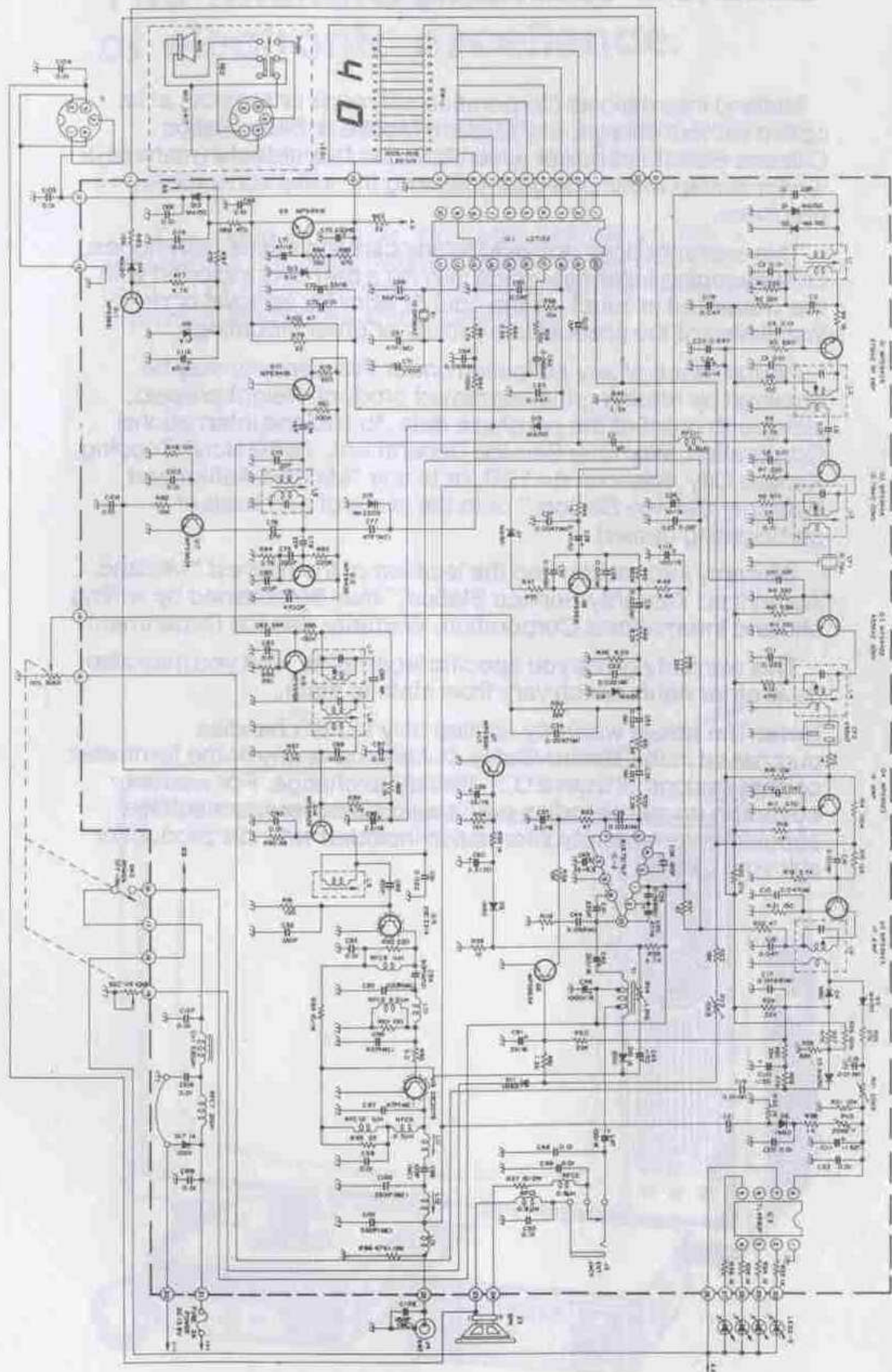
Parts Layout. Main PC Board.



Pattern side.



Schematic Diagram.



Limited Warranty.

Midland International Corporation will repair or replace, at its option without charge, any Midland Mobile 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 the purchase date, to Midland International Corporation, Warranty Service Department, 1690 North Topping, 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 International Corporation, Warranty Service Department.

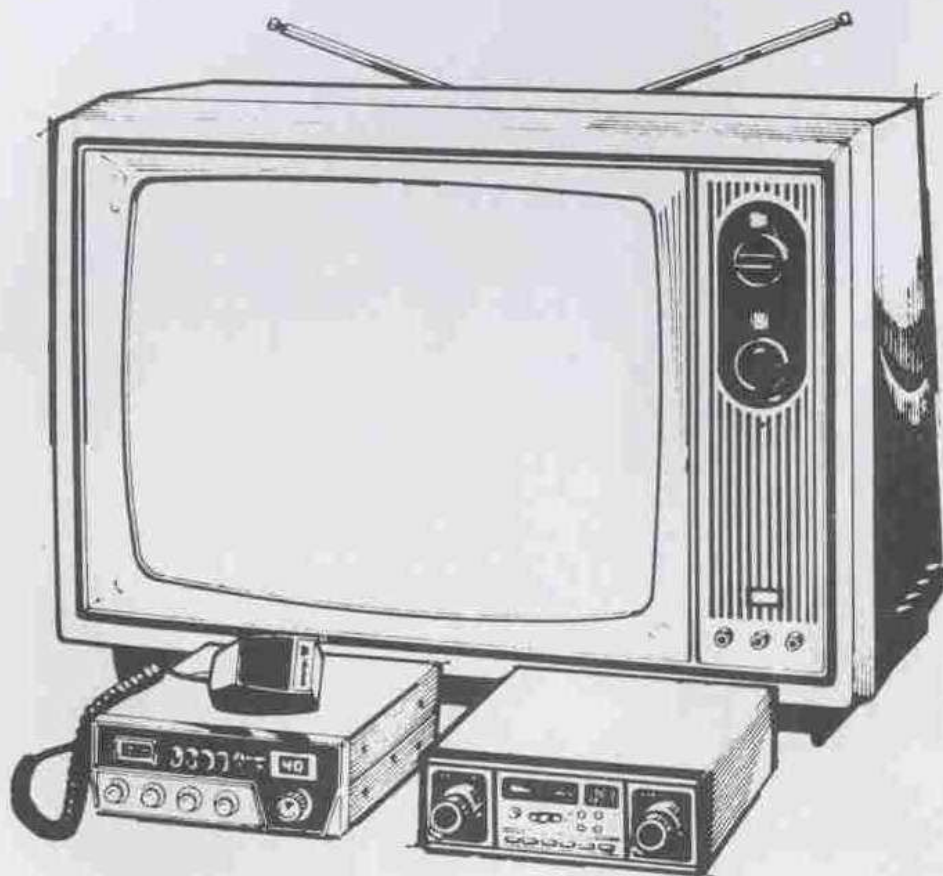
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Note: The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions of 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.

The Midland tradition of electronic excellence.

Outstanding CB performance and dependability are only two ways Midland electronic excellence will brighten your life.

The same expertise, skill and dedication that's engineered into your Midland CB also go into every product in the long, versatile line of Midland car stereo receivers, telephones and accessories.





P.O. Box 419903, Kansas City, Missouri 64141.

Phone (816) 241-8500. Telex 43-4045.

Cable Address MICO.

Corporate Offices, Distribution and Service Center:
1690 North Topping Avenue, Kansas City, Missouri 64120