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VNER'S MANUAL

40-Channel mobile citizens band transceiver. www.matemarcinl national CIN

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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.

located for maximum convenience and ease of operation.

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

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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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Features:

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

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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 dualconversion 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 timeand motion saving features built into your new radio, microphone and mounting system.

You'll find and enjoy the benefits of this altention 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.

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- Precision PLL (Phase Locked Loop) tuner.
- Fresh, attractive styling with satinfinish
- Mounting bracket for easy installation and removal.
- Rugged all metal cabinet
- · New sub miniature size-fits almost anywhere in any car.

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How to install your Midland mobile CB Mounting Bracket Lock Washer x 2 Rubber Washer x 2 Tapping Screw x 2

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.

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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:

- Easy-removal mounting bracket system.
- 2. Microphone bracket system.
- All main-unit and microphone mounting hardware needed for normal installation.
- 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.

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.

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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.

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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.)

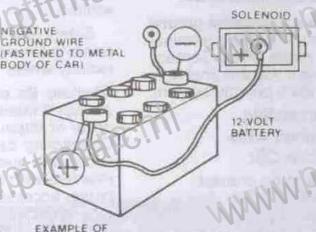
Then tightly connect the black wire directly to the vehicle's metal frame.

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.

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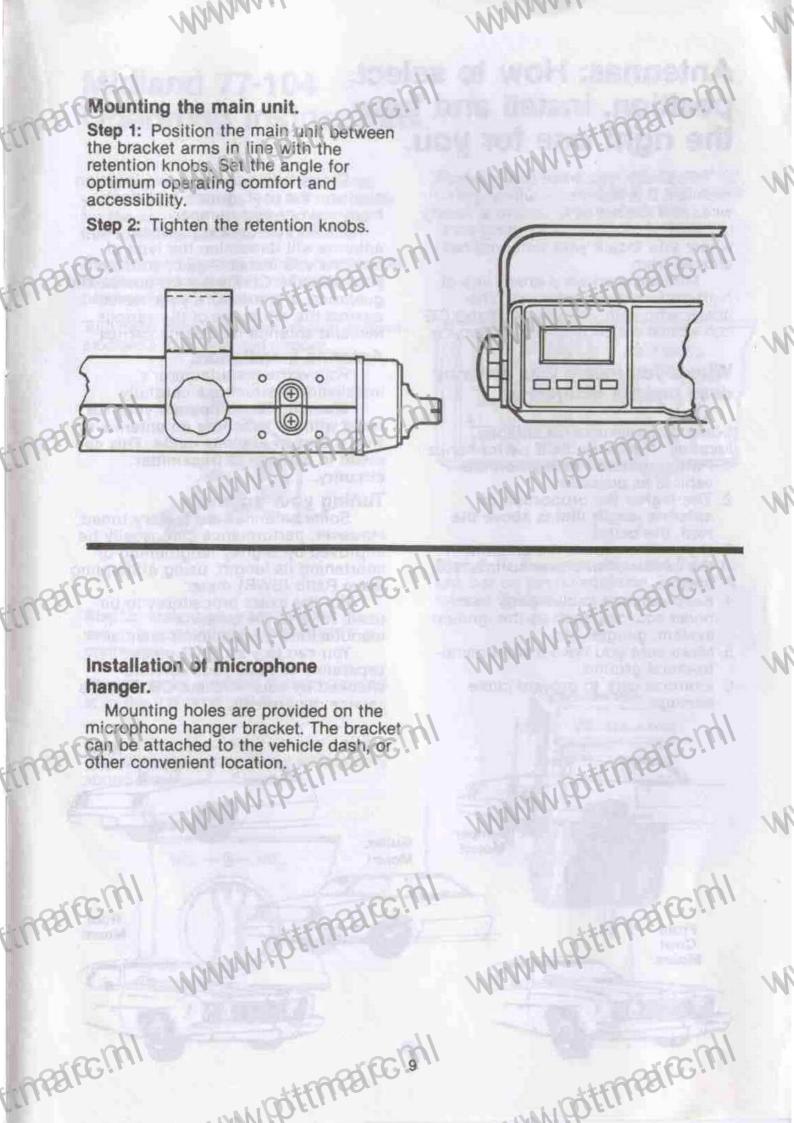
CAR'S MOTOR FLOCK OR FIRE WALL GROUND



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

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

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

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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:

- 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.
- If possible, mount the antenna in the center of whatever surface you
- 4. Keep antenna cables away from noise sources, such as the ignition system, gauges, etc.
- Make sure you have a solid metalto-metal ground.
- Exercise care to prevent cable

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

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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 amenna 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



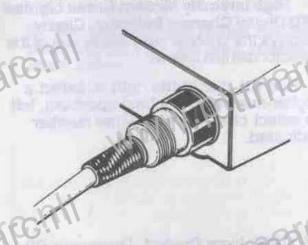
Midland 77-104 Operating Instructions.

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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 from side panel and check for secure fit.

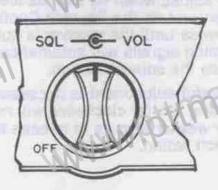
Turn collar clockwise to secure plug, counterclockwise to loosen and remove.



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

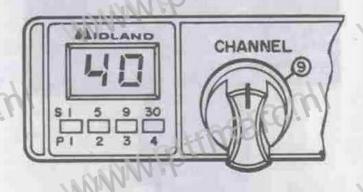
Step 3: Make sure the Squelch control is in the 9 o'clock position.

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



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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.



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Operating controls, connectors: Their functions and uses



Starting at the upper left (driver's side) of your Michael 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 out 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.



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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.

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MANIAA Microphone Connector. Securely links your microphone to the main unit during use, vet allows quick disconnection when out of service. imarcini www.pitmarcm www.pttmalrcm D Microphone Push-To-Talk Bar. Simply MNNNCOFFERRECENT 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. WWW POTERRECENII MMMKattuateur timatemi timatemi watermare in l water are is a larger to is a larger

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.

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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. CE 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.

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

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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.

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

AND LAND	W	N W	7 H 17 K
Code	Meaning	10-35	Confidential information.
10-1	Receiving poorly.	\10-36	Correct time is.
10-2	Receiving well.	10-37	Wrecker needed at.
10-3	Stop transmitting.	10-38	Ambulance needed at.
10-4	OK, message received.	10-39	Your message delivered.
10-5	Relay message	10-41	Please turn to Channel.
10-6	Busy, stand by	10-42	Traffic accident at.
10-7	Out of service; leaving the air.	10-43	Traffic tie-up at.
10-8	In service, subject to call.	10-44	I have a message for you.
10-9	Repeat message.	10-45	All units within range report.
10-10	Transmission completed, standing	10-50	Break channel.
100	by.	10-60	What is next message number?
AC10-11	Talking too fast.	10-62	Unable to copy; use phone
10-12	Visitors present.	10-63	Network directed to
10-13	Advise weather/road conditions.	10-64	Network clear
10-16	Make pickup at	10-65	Awaiting your next message/
10-17	Urgent business.	A STATE OF THE PARTY OF THE PAR	assignment.
10-18	Anything for us?	10-67	All units comply.
10-19	Nothing for you; return to base.	10-70	Fire at.
10-20	My location is.	10-71	Proceed with transmission in
10-21	Call by telephone.	1	sequence.
10-23	Report in person to.	10-77	Negative contact.
10-23	Stand by	10-81	Reserve hotel room at
10-24	Completed last assignment	10-82	Reserve room to
10-25	Can you contact?	10-84	My telephone number is.
10-26	Disregard last information.	10-85	My address is.
10-27	t arn moving to Channel.	10-91	Talk closer to mike.
10-28	Identify your station.	10-93	Check my frequency on this
10-29	Time is up for contact.		channel.
10-30	Does not conform to FCC rules.	10-94	Please give me a long count.
10-32	I will give you a radio check.	10-99	Mission completed; all units
10-33	Emergency traffic.	10 200	secure. Police needed at.
10-34	Trouble at this station.	10-200	Fonce needed at.
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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
2Z025 MHz	600
27.035 MHz	744 1940
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	1400
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	2288
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	
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	- 138
27.395 MHz	39
27.405 MHz	40
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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.

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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 an cun, 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.

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COMMON CB PROBLEMS:	Chari	Charles Cahi	Che i fuse	Che Squelo	Chan Onloff Swill	Check to active	Fully antenna	Che. Gepress	The microph	metal.	W-0.	STREET STREET		00	CC	Ņ
COMMON CB PROBLEMS:	Charles	Charles Power	Che I Iuse.	Che	Chan Onloh	Check to act	Fully antenna	Che. depress	Ch. Microph	metal.	W-0.	* *	n a	89	(60	'n
No sound or channel light.	e Chari	e Ch. Power	15	1/1	Chan onloh	Check to act	Fully antenna	Che depress	. Ch. Microph	metal .		ŧ	in.	89	(60	Ŋ
No sound or channel light. Channel light but no sound.	O Char	e Charles	e Charit fuse.	Che	Char onioh	Check act	Fully antenna	Che Chesss	Ch. Microph	Metal.	# / P	ŧ	n,	æ	(60	Ü
No sound or channel light.	e Chart	e Charles	15	Che	Char Onloh	Check to act	Fully antenna	Cher Chess	e Ch. Milcroph	The Market A.		tt	7	83	(60	Ņ
No sound or channel light. Channel light but no sound.	- Chart	e Charles	0	Che	Charles	Check to act	Fully	Character Character	e Ch. Microph	ock metal.		į	n,	88	(66	
No sound or channel light. Channel light but no sound. No voice reception.	6	e Cramer	0	Che	Charles	e Check	Fully Shipma	13	e Ch. A microph	The Market L.		it.	7	Pá		

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" 6-11/16"d
- 2. Unit weight: 1 lb. 10 oz.
- Shipping weight: 2 ib. 12 oz.
- 4. Five-pin DIN connector for microphone.
- 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 shortcircuit conditions.
- 7. Input power is suitably filtered and bypassed to prevent alternator 'whine" on transmit or receive. national 18 ml

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 uV for 10 dB (S+N)/N.

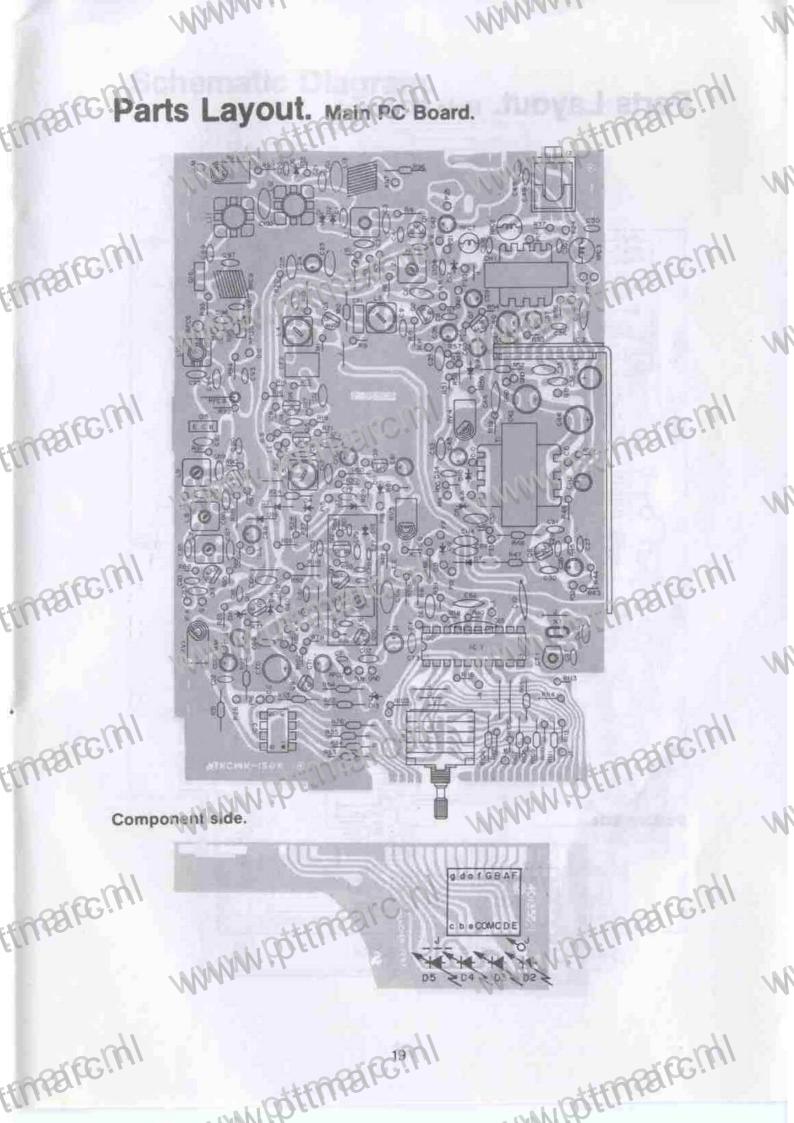
Receiver Selectivity: More than 45 db + 10 KHz.

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

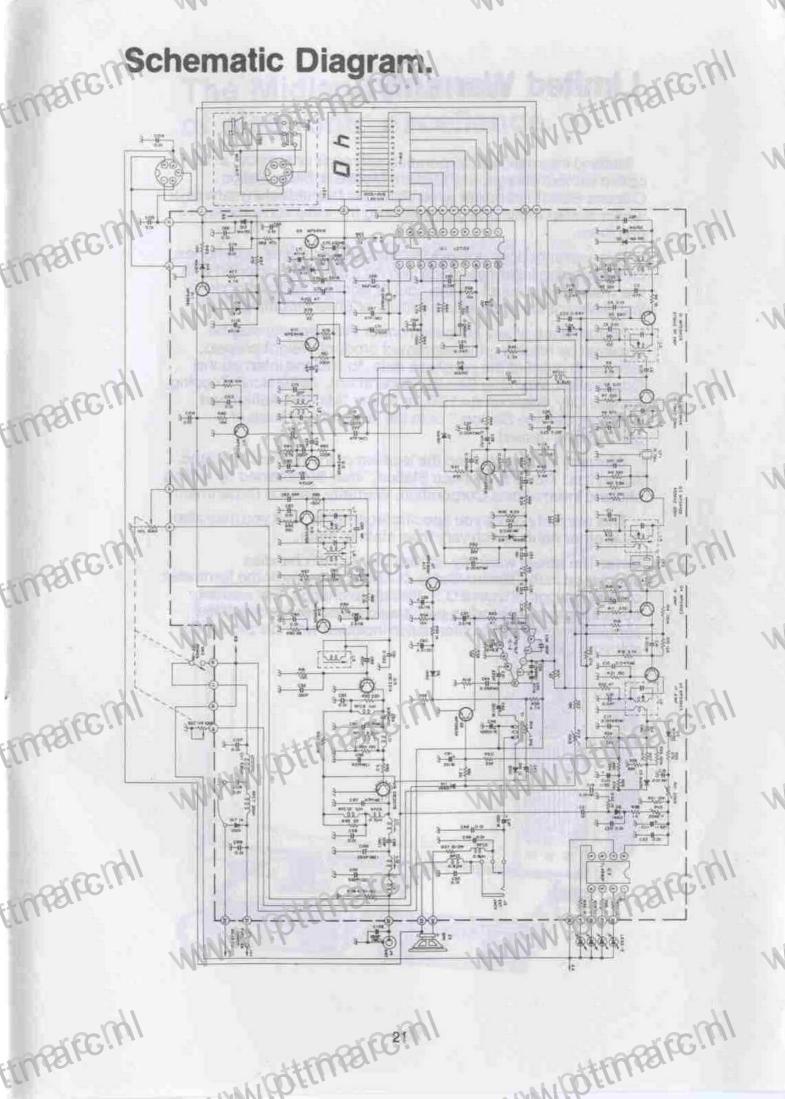
Jacks and Connections: Microphone 50-ohm antenna. 8-ohm external speaker.

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

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WWW pttmatemi ted 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 anternas which may be a part of or included with the warranted product, or the cost of labor for removal or reinstallation 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 purchased in the United States of America or any of the territories or possessions of from a U.S. military exchange. For warrants have other rights which vary from state to state. coverage on merchandise purchased elsewhere, consult the supplemental warranty information included with this product or ask your dealer. WWW Cottes accill WWW. FOTTONERGINI imarcini WWW POTERNATE IN I WWW POETERRATEGINI imarcini imarcini material (3) matten execution

WALLA WWW imarcini of electronic excellence. Outstanding CB performance and dependability are only two ways Midland electronic excellence will tmaremi 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 steleo receivers, telephones and accessories. MMMALELERATECIAN WWWYOFERRATEIN timaremi tmarcini imajeciyl imaremi tmarcini timatemi and the state of t WALLOW FRANCE SALL

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