APPENDIX 5

OPERATOR'S MANUAL

SEVEN (7) PAGE OPERATOR'S MANUAL FOLLOWS THIS SHEET

OPERATOR'S MANUAL
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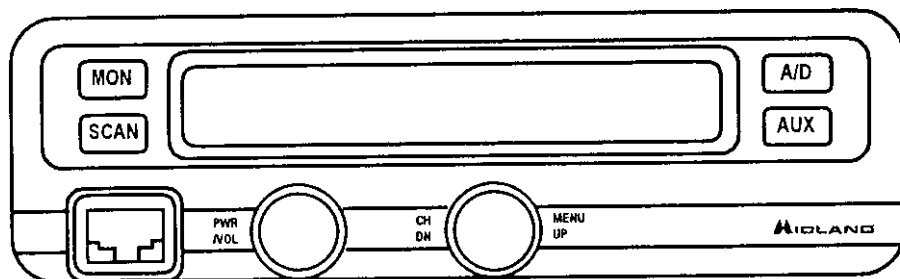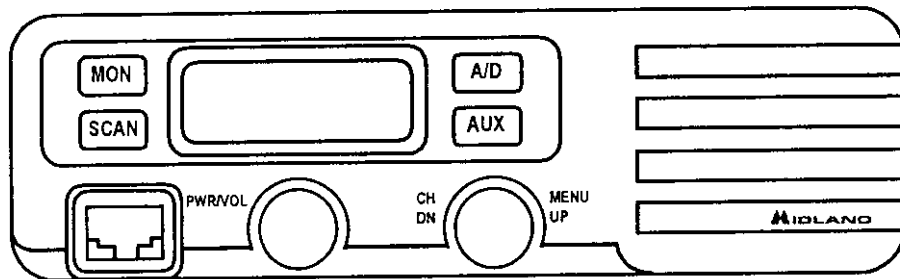
APPENDIX 5

ᴍIDLAND®USA

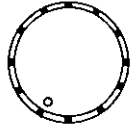# Titan™

MULTI-MODE TWO-WAY FM MOBILE RADIOS

OPERATOR'S MANUAL

CONTENTS

STANDARD CONTROLS
AND INDICATORS

POWER/VOLUME KNOB

Press and hold for a few seconds for power on. Press and hold again for power off. Clockwise rotation increases volume of received messages.
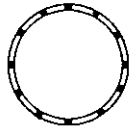
CHANNEL/MENU CONTROL KNOB

Channel Function: Rotate to scroll through channels. Your radio can be programmed to either stop at the highest and lowest channels, or for channel rollover.

Menu Function: Press and hold for 1 second to activate the menu mode, which will allow you to access Channel Display, Squelch Setting (SQL), Group Setting (GRP), Scan Key Type Setting (PRI, SCN, P/S), Back Light Control (BLN= on, or BLF=off), ANI (ANN=on, ANF=off), Clone Mode (CLN) and Clone Process.
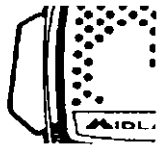
PUSH-TO-TALK BAR (On the Hand Microphone)

Transmit mode (talk mode) is initiated when pressed. The radio will emit your voice signals on the channel that appears in the Channel Display.

SCAN BUTTON

Press SCAN to activate Scan operation. For detailed information see the following descriptions of the different scan modes.

MONITOR BUTTON

Press and immediately release the MON button to disable the Coded Squelch function for adjustment of squelch and volume and to check for busy channel. Press and release again to re-enable the coded squelch.

A/D BUTTON

Press A/D to activate Add/Delete Mode. For detailed information see the following description of scan operation.

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AUX AUX BUTTON
Press AUX to access Auxiliary functions.

CHANNEL DISPLAY
Indicates selected channel number and is always illuminated when radio is on. During scan operation, indicates selected channel or received channel.

DISPATCH OPERATION

SELECTING CHANNELS

If your radio is equipped with more than one channel, rotate the channel knob to select available channels. Consult your dispatcher for proper usage.

MESSAGE RECEIPT (RECEIVE)

If a signal exists on the displayed Channel, and you are within radio range of the sender, you will hear it on the loudspeaker.

NOTE: Your radio may be equipped to block communications from radios not in your radio system (coded squelch feature), or it may even block calls from your system that are not directed to you (select call feature).

SENDING A MESSAGE (TRANSMIT)

1. Press MON to deactivate the Coded Squelch feature. If your transceiver is equipped with the Midland Switched Hang-Up Box, simply lift the hand microphone from the box, instead. If the selected channel does not use coded squelch, skip this step.

2. Listen to make sure the selected Channel is clear.

3. Hold the hand microphone close to your mouth, press the Push-To-Talk Bar (PTT) on the hand microphone to initiate transmit, then announce your message. To hear the replay, release PTT when finished speaking.

4. When your conversation is complete, press MON again to engage the Code Squelch feature, or return the hand microphone to the Switched Hang-Up Box.

QUICK GUIDE OF MOBILE SCAN MODES

The radio technician can initially program this radio for one of four different types of scan. The user can select, through the MENU mode, three variations of the scan programmed by the radio technician. The following table outlines line scan type variation that the user can obtain depending upon the radio programming.

	SCAN TYPE PROGRAMMED			
	NORMAL	MODIFIED	SECONDARY	PS
USER SELECTION	RESULTING SCAN TYPE			
PRI (PRI)	A SCAN	A SCAN	S CH MODE	PS PSCAN
SCAN (SCN)	B SCAN	B' SCAN	B' SCAN	-----------
PRI SCAN (P/S)	-----------	GRP A	A SCAN	-----------

NOTE: The "OFF HOOK SCAN STOP" enable/disable is programmed by the radio technician prior to use of the radio.

TYPE "A" SCAN MODE

1. The radio will scan the "A" scan channels as programmed by the radio technician. To start scan, press and release the scan button.

2. The transmit "PRI 1" priority channel will be the channel that was set when starting the scan operation.

3. Priority monitor enable/disable is programmed by the radio technician.

4. In the scan mode, the transmit channel will be the priority channel.

5. To delete a nuisance channel from the scan list: When the scan stops on the nuisance channel, press and release the A/D button.

6. To stop scan, press and release the scan button. To restart scan when the radio is stopped on a busy channel, rotate the channel knob up one channel.

7. If the "OFF HOOK SCAN STOP" is enabled and the microphone is off hook the "PRI 2" channel add/delete is available. To add or delete the "PRI 2" channel, press and hold the SCAN button more than 1 second.

8. If scan is stopped, Add/Delete of Group A channels is available in Add/Delete mode.

TYPE "B" SCAN MODE

1. The radio will scan the "B" scan channels as programmed by the radio technician.

2. Transmit will occur on the channel that was last stopped during scan (hold channel). If there was no hold channel the radio will transmit on the "PRI 1" channel.

3. To return to the hold channel during scan, press and release the scan button.

4. PRI monitor function is not available in this mode. If scan is stopped, Add/Delete of Group B channels is available in Add/Delete mode.

5. Other operation is the same as type "A" scan.

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TYPE "B' " SCAN MODE

1. Operation is the same as type "B" scan, except the SCAN button operation is the same as type "A" scan.

2. If scan is stopped, Add/Delete of Group B channels is available in Add/Delete mode.

TYPE "PS" SCAN MODE

1. The "A" channels will be scanned in this mode.

2. The transmit priority channel will be the channel that was set when scan was activated.

3. "PRI" monitor is the same operation as type "A" scan.

4. To change the "PRI 1" channel, rotate the channel selector while in the scan mode or during OFF HOOK SCAN stop.

5. Deleting a nuisance channel is the same as type "A" scan.

6. Adding or deleting the "PRI 2" channel is the same as type "A" scan.

7. If scan is stopped, Add/Delete of Group A channels is available in Add/Delete mode.

TYPE "GRP A" MODE

1. Transmit will occur on the currently displayed channel.

2. To change the LAST HOLD CHANNEL rotate the channel selector during scan.

3. It is not possible to add or delete scan channels.

4. Channel returns to the LAST HOLD CHANNEL, when scan is stopped by the operator.

5. Other operation is the same as type "A" scan.

TYPE "S CH" MODE

1. This mode allows setting of a secondary channel on which the radio will transmit. To set the secondary channel, rotate the channel selector during scan operation to the desired channel.

2. If the radio is stopped scanning on the "PRI 1" or "PRI 2" then transmit will occur on the corresponding "PRI" channel.

3. It is not possible to add or delete scan channels in this mode.

4. Other operation is the same as type "A" scan.

NOTE: It is a programmable function to enable/disable the initialization of the Add/Delete scan table. It is possible to initialize the scan table by pressing the A/D button for a few seconds while in the Add/Delete mode.

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CAUTION

The Antenna Connector must be snugly tightened to maintain proper electrical connection and moisture resistance.

GENERAL SAFETY INFORMATION

DO NOT operate a mobile radio transmitter when someone outside the vehicle is within two feet (0.6 meter) of the antenna.

DO NOT operate a transmitter of any radio unless all RF connectors are secure and properly terminated.

DO NOT operate this equipment near electrical blasting caps or in an explosive atmosphere.

All equipment must be grounded according to Midland installation instruction for safe operation.

All equipment should be serviced only by a qualified technician.

Refer to the unit service manual for additional safety information.

SERVICE MANUALS

Testing alignment and service information are provided in the service manual for this model. Service manuals for Titan™ radios are available from Midland at the address shown on the back cover.

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

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