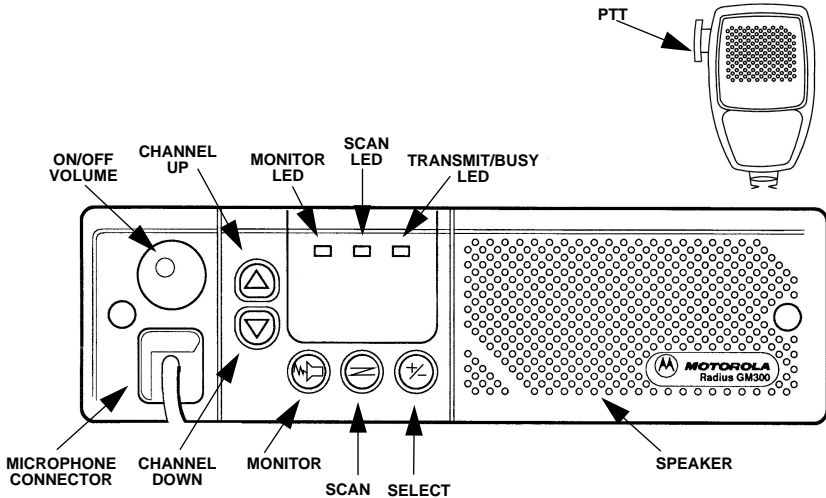


## Operating Instructions

### 8 Channel Operating Instructions




#### To Turn The Radio On


Turn the ON/OFF VOLUME knob to the right until it clicks. The LED lights will show the last status of the radio and a start-up tone will be heard.


#### To Receive

Set the volume by turning the ON/OFF VOLUME knob clockwise.

Select the channel by pressing the UP/DOWN button [  ]. Continued pressing of the button will scroll through the channels.

To monitor a channel, press the MONITOR button [  ] or take the microphone off hook. When in the monitor mode, the amber MONITOR LED light steadily.

To unsquelch the radio, press and hold the MONITOR button [  ] for 2 seconds.

To leave the unsquelched mode, press the MONITOR button [  ] again. This will return the radio to the coded squelch (PL/DPL) mode.

A short beep tone will be heard whenever a valid keypress is made.

#### To Transmit

When the channel is clear, press and hold down the Push-to-Talk (PTT) button on the side of the microphone and speak slowly and clearly. The TRANSMIT/BUSY LED will remain red until the PTT button is released to indicate that you are "on-the-air".

The red TRANSMIT/BUSY LED will flash whenever there is another carrier on the selected channel.


**NOTE**

If your radio has the Time-Out-Timer function activated, transmission will terminate if you hold down the PTT button for over 60 seconds or the preprogrammed time period. When this occurs, an alert tone sounds 4 seconds before the transmission is cut. To resume transmitting, release the PTT button and push again.

**Channel Scan**


The 8 channel GM300 mobile may have a single user scan list which can be programmed from the front panel.

**To Turn Scan On or Off**


Press the SCAN button [  ]. The radio will only scan when the microphone is on-hook.

The green scan LED will turn on and display segments will light to indicate that scan is functional.




When an active channel is detected, the channel number will be displayed and you will hear the call. To leave scan, press the SCAN button [  ].



**To Delete a Nuisance Channel**

While receiving an undesired transmission, hold down the SELECT button [  ] for 2 seconds and the nuisance channel will be temporarily deleted (until scan is exited or the radio is turned off). Priority channels and the home channel cannot be deleted.

**To Respond to Scanned Channel Activity**

When the microphone is lifted off-hook, the radio will suspend scanning and return to the channel displayed before entering scan. If you wish to transmit on another channel, press the UP/DOWN button [  ] to reach the desired channel. Scan will resume after replacing the microphone on-hook.

**To Create or Modify the User List**

Hold the SCAN button [  ] for 2 seconds until you hear a second chirp tone and the channel number flashes. The displayed channel can be added or deleted from the user scan list by pressing the SELECT button [  ].

A vertical segment in the upper left corner of the display will light and flash, alternating with the channel number, to indicate that the flashing channel has been added to the scan list. The segment will disappear when the channel is deleted.



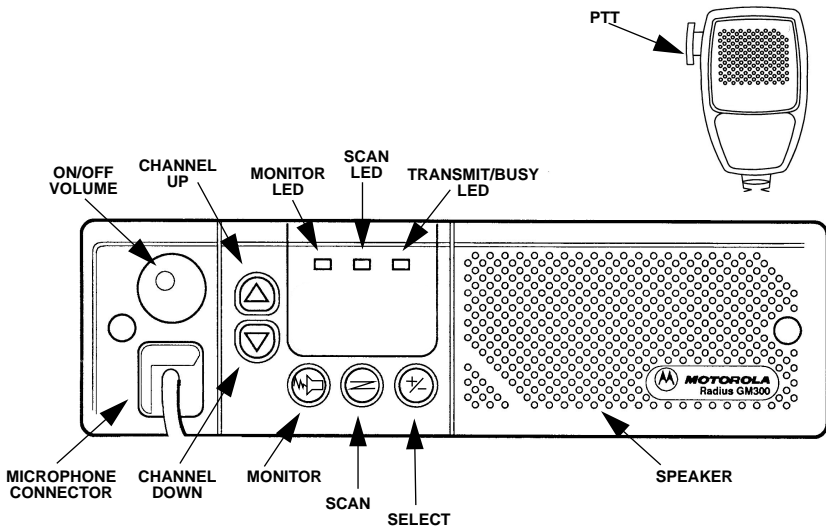
Use the UP/DOWN and SELECT buttons [▲/▼, ⊕] to add or delete other desired channels in the user list.

### To Select Priorities for The User List

Go to the desired channel and hold the SELECT button [⊕] down for 2 seconds. The scan LED will flash to indicate that this is the first priority channel. Repeat the process to select a second priority channel. Priority Two will be indicated by a steady light on the scan LED.

The Priority One channel must be programmed first, followed by the Priority Two channel. Deleting either priority channel will delete both channels simultaneously.

## 16 Channel Operating Instructions



### To Turn The Radio On

Turn the ON/OFF VOLUME knob to the right until it clicks. The LED lights will show the last status of the radio and a start-up tone will be heard.

### To Receive

Set the volume by turning the ON/OFF VOLUME knob clockwise.

Select the channel by pressing the UP/DOWN button [ / ]. Continued pressing of the button will scroll through the channels.

To monitor a channel, press the MONITOR button [ ] to take the microphone off hook. When in the monitor mode, the amber MONITOR LED will light steadily.

To unsquelch the radio, press and hold the MONITOR button [ ] for 2 seconds.

To leave the unsquelched mode, press the MONITOR button [ ] again. This will return the radio to the coded squelch (PL/DPL) mode.

A short beep tone will be heard whenever a valid keypress is made.

### To Transmit

When the channel is clear, press and hold down the PTT button on the side of the microphone and speak slowly and clearly. The TRANSMIT/BUSY LED will remain red until the PTT button is released to indicate that you are “on-the-air”.

The red TRANSMIT/BUSY LED will flash whenever there is another carrier on the selected channel.


**NOTE**


The radio has a Time-Out-Timer that will terminate your transmission if you hold down the PTT button for over 60 seconds. When this occurs, an alert tone sounds for 4 seconds before the transmission is cut. To resume transmitting, release the PTT button and push again.

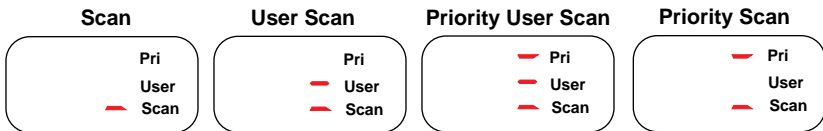
**Channel Scan**

The 16 channel GM300 mobile may have a preprogrammed scan list for each active channel and a single user scan list which can be programmed from the front panel.


**To Turn Scan On or Off**

Press the SCAN button [  ]. The radio will only scan when the microphone is on-hook.


Green display segments will light to indicate that scan is functional. Use the SELECT button [  ] to advance through the various scan types:

**NOTE**


The first and last displays apply to the preprogrammed scan lists and will be the only types of scan available until a user list is programmed.

When an active channel is detected, the channel number will be displayed and you will hear the call. To leave scan, press the SCAN button [  ].



**To Respond to Scanned Channel Activity**

When the microphone is lifted off-hook, the radio will suspend scanning and return to the channel displayed before entering scan. If you wish to transmit on another channel, press the UP/DOWN button [  ] to reach the desired channel. Scan will resume after replacing the microphone on-hook.

**To Delete a Nuisance Channel**




While receiving an undesired transmission, hold down the SELECT button [  ] for 2 seconds and the nuisance channel will be temporarily deleted (until scan is exited or the radio is turned off). Priority channels and the home channel cannot be deleted.

## To Create or Modify the User List


Hold the SCAN button [  ] for 2 seconds until you hear a second chirp tone and the channel number flashes. The displayed channel can be added or deleted from the user scan list by pressing the SELECT button [  ].

A vertical segment in the upper left corner of the display will light and flash, alternating with the channel number, to indicate that the flashing channel has been added to the scan list. The segment will disappear when the channel is deleted.



Use the UP/DOWN and SELECT buttons [  /  ,  ] to add or delete other desired channels in the user list.

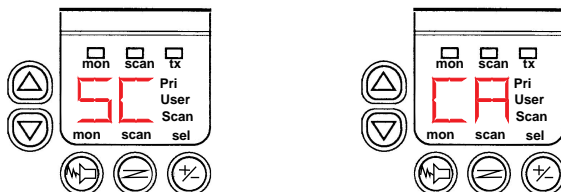
## To Select Priorities for The User List

Go to the desired channel and hold the SELECT button [  ] down for 2 seconds. The scan LED will flash to indicate that this is the first priority channel. Repeat the process to select a second priority channel. Priority Two will be indicated by a steady light on the scan LED.

The Priority One channel must be programmed first, followed by the Priority Two channel. Deleting either priority channel will delete both channels simultaneously.

## 16 Channel RapidCall Operating Instructions

### Mobile (Field Unit) Selective Signalling



The Monitor LED remains lit in normal operation to indicate monitor mode. To indicate an incoming select call, the Monitor LED will flash and the display will show the appropriate letter abbreviations.

#### Receiving a Voice Selective Call

When a Voice Selective Call is received a one-time 2 beep alert tone will sound, the amber Monitor LED will flash and the display will show "SC".


The radio will unmute and a voice message will follow. After the transmission is completed, the radio returns to normal operation.

#### Receiving a Call Alert

When a Call Alert is received the amber Monitor LED will flash and a series of 4 alert tones will sound. The display will show "CA". Depending on the signalling format used, a voice message may follow.

A Call Alert "leaves a message" for the mobile operator. The Monitor LED will continue to flash, the "CA" will remain on the display and the alert tones will repeat every 10 seconds until the PTT or any other button is pressed. The radio will then return to normal operation.

#### Receiving an External Alarm (Horn or Lights)

The External Alarm, Horn, or Lights function requires an alarm relay cable. To enable an incoming Call Alert to turn on the horn and/or lights, press the SELECT button [  ] and the display will show "HL". The duration of the external alarm is 6 seconds.

There will be a slight delay before the horn or lights relay is closed. An operator in or near the vehicle who sees or hears the Call Alert indication will have the opportunity to turn off the External Alarm before it sounds. This is done by pressing any button or taking the microphone off-hook.

## **Mobile (Field Unit) Selective Signalling**

### **Sending an Identification Number**

Every time the PTT button is pressed, the radio automatically transmits a unit identification (ID) number. While holding the PTT button, a tone may be heard while the unit ID number is being sent out. Do not begin talking until the tone is over.

### **Sending an Emergency Alarm**

Emergency alarm requires the press of an external footswitch or pushbutton to send the emergency call.

If programmed for STANDARD EMERGENCY, the following will occur:

- The operator will hear a single alert tone when the Emergency is sent by the radio and the transmit LED will light.
- The letters "EE" will appear on the display.
- Five alert tones will sound to indicate the Control unit has received and acknowledged the Emergency. The "EE" will then disappear from the display.
- Messages will be heard over the radio's speaker during the Emergency.
- Monitor and Busy LEDs will function normally during the Emergency.
- The only way to cancel the emergency is by pressing the PTT button. No other button press will function normally except Monitor.

If programmed for EMERGENCY REVERT, the radio will automatically change (revert) to an emergency channel to send the call. The channel display will show the emergency channel after the "EE" clears.

If programmed for SILENT EMERGENCY, there will be no audio or visual indication that the emergency call was sent and the radio will remain muted. The operator must press the PTT button to initiate a voice message and begin receiving again.

### **Signalling and Channel Scan**

Signalling and scan are compatible. However, during scan operation, a selective call on a particular channel could be missed since the radio may not be checking that channel when the selective call is sent.

We recommend that priority scan be selected and the signalling channel be designated a priority channel to improve the likelihood that the selective call will be received.