



DM Series Digital Mobile Radios Quick Reference Guide

NOTE: For more details on your radio's operations/features, refer to the User Guides:

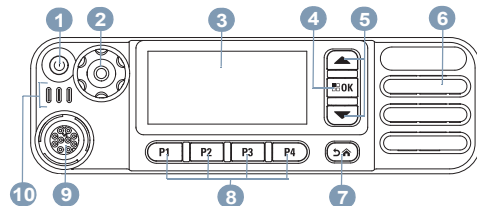
- *MOTOTRBO DM4600/DM4601 Colour Display User Guide* (68012007021)
- *MOTOTRBO DM4400/DM4401 Numeric Display User Guide* (68012007017)

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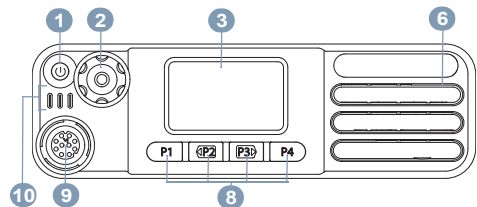
Radio Controls



Color Display Mobile Radio



Numeric Display Mobile Radio



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Record your radio's programmable button functions in the blanks provided. **SP** represents short press, **LP** represents long press.

- 1 On/Off Button
- 2 Volume/Channel Knob
- 3 Display
- 4 OK/Menu Button
- 5 Scroll Up/Down
- 6 Speaker
- 7 Return/Home Button
- 8 Front Programmable Buttons
SP: _____ **LP:** _____
SP: _____ **LP:** _____
SP: _____ **LP:** _____
SP: _____ **LP:** _____
- 9 Accessory Connector
- 10 LED Indicators

Display Icons

The following are the icons that appear on the radio's display.



Received Signal Strength Indicator (RSSI)

The number of bars displayed represents the radio signal strength. Four bars indicate the strongest signal. This icon is only displayed while receiving.



Bluetooth

The Bluetooth feature is enabled but there is no remote Bluetooth device connected.



Bluetooth Connected

The Bluetooth feature is enabled. The icon stays lit when one or more remote Bluetooth devices are connected.



Emergency

Radio is in Emergency mode.



Notifications

Notification List has one or more missed events.



Scan*†

Scan feature is enabled.

**Scan – Priority 1*‡**

Radio detects activity on channel/group designated as Priority 1.

**Scan – Priority 2*‡**

Radio detects activity on channel/group designated as Priority 2.

**Vote Scan**

Vote scan feature is enabled.

**Monitor**

Selected channel is being monitored.

**Talkaround*‡**

In the absence of a repeater, radio is currently configured for direct radio to radio communication.

**Site Roaming***

The site roaming feature is enabled.

**Secure**

The Privacy feature is enabled.

**Unsecure**

The Privacy feature is disabled.

**GPS Available**

The GPS feature is enabled. The icon stays lit when a position fix is available.

**GPS Not Available/Out of Range**

The GPS feature is enabled but is not receiving data from the satellite.

**Option Board**

The Option Board is enabled.

**Option Board Non-Function**

The Option Board is disabled.

**Tones Disable**

Tones are turned off.



OR

**Power Level**

Radio is set at Low power.

Radio is set at High power.

**Not applicable in Capacity Plus*

‡Not applicable in Linked Capacity Plus

■ Call Icons

The following icons appear during a call, and in the Contacts list to indicate ID type.



Private Call

Indicates a Private Call in progress.

In the Contacts list, it indicates a subscriber alias (name) or ID (number).



Group Call/All Call

Indicates a Group Call or All Call in progress.

In the Contacts list, it indicates a group alias (name) or ID (number).

■ Bluetooth Device Icons

The following icons also appear next to items in the list of Bluetooth-enabled devices available to indicate the device type.



Bluetooth Data Device

Bluetooth-enabled data device, such as a scanner.



Bluetooth Audio Device

Bluetooth-enabled audio device, such as a headset.



Bluetooth PTT Device

Bluetooth-enabled PTT device, such as a PTT-Only Device (POD).

■ Sent Items Icons

The following icons appear at the top right corner of the radio's display in the Sent Items folder.



OR



Sent Successfully

The text message is sent successfully.



OR



Send Failed

The text message cannot be sent.



OR



In-Progress

- The text message to a subscriber alias or ID is pending transmission, followed by waiting for acknowledgement.
- The text message to a group alias or ID is pending transmission.

■ LED Indicator

Blinking red – Radio is receiving an emergency transmission or has failed the self-test upon powering up.

Solid green – Radio is powering up, or transmitting. Also indicates full charge of the battery when Battery Strength button is pressed.

Solid green – Radio is powering up, or transmitting

Blinking green – Radio is receiving a non-privacy-enabled call or data, or detecting activity over the air.

Double blinking green – Radio is receiving a privacy-enabled call or data.

Solid yellow – Radio is monitoring a conventional channel.

Blinking yellow – Radio is scanning for activity or receiving a Call Alert, or all local Linked Capacity Plus channels are busy.

Double blinking yellow – Radio is no longer connected to the repeater while in Capacity Plus or Linked Capacity Plus, all Capacity Plus or Linked Capacity Plus channels are currently busy, Auto Roaming is enabled, radio is actively searching for a new site. Also indicates radio has yet to respond to a group call alert, or radio is locked.

NOTE: For Capacity Plus and Linked Capacity Plus, there is no LED indication when the radio is detecting activity over the air.

■ Powering Up and Turning Off the Radio

Rotate the **Volume/Channel Knob** clockwise until you hear a click. You see **MOTOTRBO (TM)** on the radio's display momentarily, followed by a welcome message or welcome image.

The LED lights up solid green and the Home screen lights up if the backlight setting is set to turn on automatically.

*To turn off the radio, rotate this knob counterclockwise until you hear a click. You see a brief **Powering Down on the radio's display.***

■ Adjusting the Volume

To increase the volume, turn the **Volume/Channel Knob** clockwise.

To decrease the volume, turn this knob counterclockwise.

NOTE: Your radio can be programmed to have a minimum volume offset where the volume level cannot be turned down fully. Check with your dealer or system administrator for more information.



■ Using the Volume/Channel Knob

The **Volume/Channel Knob** can be programmed as dual purpose for both volume and channel or as a volume-only control.

To adjust volume, see **Adjusting the Volume** on page 5.

To change channels, push and hold the knob until channel selection screen is displayed, then turn the knob to the required channel.

To exit channel selection state, do any of the following.





- Push the **Volume/Channel Knob** again.
- Press 
- Press 
- Wait for the menu timer to expire



■ Accessing the Radio from Password

1. Power up the radio.
2. You hear a continuous tone.
3. Enter your current four-digit password via keypad microphone.

The display shows **••••**. Press  to proceed.

OR

Enter your current four-digit password. Press  or  to edit each digit's numeric value and  to enter the selected digit and move to the next digit. Each digit changes to **•**. Press  to confirm your selection.

You hear a positive indicator tone for every digit pressed. Press  to remove the each **•** on the display. You hear a negative indicator tone, if you press  when the line is empty, or if you press more than four digits.

4. If the password is correct:
Your radio proceeds to power up. See **Powering Up and Turning Off the Radio** on page 5.

OR

If the password is incorrect:

The display shows **Wrong Password**. Repeat Step 3.

OR

After the third incorrect password, the display shows **Wrong Password** and then, shows **Radio Locked**. A tone sounds and the LED double blinks yellow.

■ Selecting a Zone

A zone is a group of channels. Your Color Display Mobile and Numeric Display Mobile supports up to 99 channels and 2 zones, with a maximum of 99 channels per zone.

Use the following procedures to select a zone.



Color Display Mobile Radio

Press the programmed **Zone** button and proceed to Step 3.

OR

Follow the procedure below.

1. to access the menu.
2. or to Zone and press to select.
3. The current zone is displayed and indicated by a ✓.
4. or to the required zone and press to select.
5. The display shows <Zone> Selected momentarily and returns to the selected zone screen.



Numeric Display Mobile Radio

1. Press the programmed **Zone** button.
2. You hear a positive indicator tone, indicating the radio has switched from Zone 1 to Zone 2.

OR

You hear a negative indicator tone, indicating the radio has switched from Zone 2 to Zone 1.

■ Selecting a Channel

Once the required zone is displayed (if you have multiple zones in your radio), use the **Scroll Up/Down buttons**, **Volume/Channel Knob**, or programmed **Channel Up/Down** buttons to select the channel, subscriber alias or ID, or group alias or ID.

OR

Press the programmed **One Touch Access** button to select the preset channel assigned to the button.

■ Making a Group Call

Press the **Channel Up** or **Channel Down** button to select the channel with the active group ID and proceed with Step 3.

OR

Follow the procedure below.

1. Press the **Volume/Channel Knob** to enter the channel selection state.
2. Turn the knob to select the channel with the active group alias or ID.
3. Press the **PTT** button to make the call. The green LED lights up.
4. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

OR



Wait for the **PTT** Sidetone to finish (if enabled) and speak clearly into the microphone.

5. Release the **PTT** button to listen. When the target radio responds, the green LED blinks.



6. If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the target radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond.

OR

If there is no voice activity for a predetermined period of time, the call ends.

■ Making a Private Call

Press the **Channel Up** or **Channel Down** button to select the channel with the active subscriber ID and proceed with Step 3.

OR

Follow the procedure below.

1. Press the **Volume/Channel Knob** to enter the channel selection state.
2. Turn the knob to select the channel with the active subscriber alias or ID.
3. Press the **PTT** button to make the call. The green LED lights up.
4. Wait for the Talk Permit Tone to finish (if enabled) and speak clearly into the microphone.

OR



Wait for the **PTT** Sidetone to finish (if enabled) and speak clearly into the microphone.

5. Release the **PTT** button to listen. When the target radio responds, the green LED blinks.



6. If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the target radio releases the **PTT** button, indicating the channel is free for you to respond. Press the **PTT** button to respond.

OR

If there is no voice activity for a predetermined period of time, the call ends.

■ Scanning Channels

NOTE: This feature is not applicable in Capacity Plus and Linked Capacity Plus.

Press the programmed **Scan** button to turn scan on or off.

During scan, the LED blinks yellow and the scan icon is displayed.

■ Making a Call Alert



Color Display Mobile Radio

Press the programmed **One Touch Access** button and proceed to Step 5.

OR

Follow the procedure below.

1. to access the menu.
2. or to **Contacts** and press to select.
3. or to the required subscriber alias or ID and press to select.
4. or to **Call Alert** and press to select.
5. The display shows **Call Alert** and the subscriber alias or ID, indicating that the Call Alert has been sent.
6. The green LED lights up when your radio is sending the Call Alert.
7. If the Call Alert acknowledgement is received, the display shows positive mini notice.

OR

If the Call Alert acknowledgement is not received, the display shows negative mini notice.



Numeric Display Mobile Radio

1. Press the programmed **One Touch Access** button to make a Call Alert to the predefined ID.
2. The green LED lights up when your radio is sending the Call Alert.
3. If the Call Alert acknowledgement is received, two chirps sound.

OR

If the Call Alert acknowledgement is not received, a low-pitched tone sounds.

■ Sending a Quick Text Message



Color Display Mobile Radio

Press the programmed **Text Message** button and proceed to Step 3.










OR

Press the programmed **One Touch Access** button to send a predefined Quick Text message to a predefined alias or ID and proceed to Step 6.

OR

Follow the procedure below.

1. to access the menu.
2. or to **Messages** and press to select.

3.  or  to Quick Text and press  to select.
4.  or  to the required Quick Text and press  to select.
5.  or  to the required alias or ID and press  to select.
6. The display shows transitional mini notice, confirming your message is being sent.
7. If the message is sent, a tone sounds and the display shows positive mini notice.
OR
If the message is not sent, a low tone sounds and the display shows negative mini notice.



Numeric Display Radio


1. Press the programmed **One Touch Access** button to send a predefined Quick Text message to a predefined ID.
2. The green LED lights up.
3. Two chirps indicate that the message is sent successfully.
OR
A low-pitched tone indicates that the message cannot be sent.

Sending an Emergency Alarm

NOTE: If your radio is set to Silent, it will not display any audio or visual indicators during Emergency mode.



Color Display Mobile Radio

1. Press the programmed **Emergency On** button or the **Emergency** footswitch.
2. The display shows Tx Alarm and the destination alias. The green LED lights up and the Emergency icon appears.
OR
 The display shows Tx Telegram and the destination alias. The LED lights up solid green and the Emergency icon appears.
3. When an Emergency Alarm acknowledgment is received, the Emergency tone sounds and the green LED blinks. The display shows Alarm Sent.
OR
If your radio does not receive an Emergency Alarm acknowledgement, and after all retries have been exhausted, a tone sounds and the display shows Alarm Failed.
4. Radio exits the Emergency Alarm mode and returns to the Home screen.



Numeric Display Radio

1. Press the programmed **Emergency On** button or the **Emergency** footswitch.
2. The green LED lights up.
3. When an Emergency Alarm acknowledgment is received, the Emergency tone sounds. The green LED blinks.
OR
If your radio does not receive an Emergency Alarm acknowledgement, and after all retries have been exhausted, a low-pitch tone sounds.
4. Radio exits the Emergency Alarm mode.

Privacy

Press the programmed **Privacy** button to toggle privacy on or off.

Finding and Connecting to a Bluetooth Device

NOTE: Do not turn off your Bluetooth-enabled device or press during the finding and connecting operation as this cancels the operation.

A pin code may be required to be programmed in your radio before it can pair with some devices. Contact your dealer for more information



Color Display Mobile Radio

1. Turn on your Bluetooth-enabled device and place it in pairing mode. Refer to respective Bluetooth-enabled device's user manual.
2. On your radio, press to access the menu.
3. or to **Bluetooth** and press to select.
4. or to **Devices** and press to select.
5. or to the required device and press to select.
OR
 or to **Find Devices** to locate available devices.
 or to the required device and press to select.
6. or to **Connect** and press to select. Display shows **Connecting to <device>**. Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to respective Bluetooth-enabled device's user manual.
7. If successful, the radio display shows **<Device> Connected**. A tone sounds and appears beside the connected device. The Bluetooth Connected icon appears on the status bar.
OR
If unsuccessful, the radio display shows **Connecting Failed**.



Numeric Display Radio

1. Turn on your Bluetooth-enabled device and place it in pairing mode. Refer to respective Bluetooth-enabled device's user manual.
2. On your radio, press the programmed **Bluetooth Connect** button.
3. A tone sounds and LED blinks yellow.
4. Your Bluetooth-enabled device may require additional steps to complete the pairing. Refer to respective Bluetooth-enabled device's user manual.
5. If successful, a positive tone sounds.
OR
If unsuccessful, a negative indicator tone sounds.

NOTE: Your radio connects to the Bluetooth-enabled device within range with either the strongest signal strength, or to one which it has connected to before in a prior session.

Voice Announcement



Color Display Mobile Radio

Press the programmed **Voice Announcement** button.

OR

Follow the procedure below.

1. to access the menu.
2. or to Utilities and press to select.

3. or to Voice Announcement.

4. Press to enable Voice Announcement. The display shows ✓ beside Enabled.

OR

Press to disable Voice Announcement. The ✓ disappears from beside Enabled.

Intelligent Audio



Color Display Mobile Radio

Press the programmed **Intelligent Audio** button to toggle the feature on or off.

OR

Follow the procedure below.

1. to access the menu.
2. or to Utilities and press to select.
3. or to Radio Settings and press to select.
4. or to Intelligent Audio.
5. Press to enable Intelligent Audio. The display shows ✓ beside Enabled.
OR
Press to disable Intelligent Audio. The ✓ disappears from beside Enabled.