



PROFESSIONAL DIGITAL TWO-WAY RADIO

MOTOTRBO™ **DP4800/DP4801** **COLOUR DISPLAY PORTABLE** **USER GUIDE**



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Handling Precautions

The MOTOTRBO Series Digital Portable radio meets IP57 specifications, allowing the radio to withstand adverse field conditions such as being submersed in water.

- If the radio has been submersed in water, shake the radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.
- If the radio's battery contact area has been exposed to water, clean and dry battery contacts on both the radio and the battery before attaching the battery to the radio. The residual water could short-circuit the radio.
- If the radio has been submersed in a corrosive substance (e.g. saltwater), rinse the radio and battery in fresh water then dry the radio and battery.
- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (i.e. one teaspoon of detergent to one gallon of water).

- Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so may create a leak path into the radio and the radio's submersibility may be lost.
- Never obstruct or cover the vent, even with a label.
- Ensure that no oily substances come in contact with the vent.
- The radio with antenna attached properly is designed to be submersible to a maximum depth of 1 meter (3.28 feet) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna may result in damage to the radio.
- When cleaning the radio, do not use a high pressure jet spray on the radio as this will exceed the 1 meter depth pressure and may cause water to leak into the radio.



Caution: Do not disassemble the radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance should only be done in service depot that is equipped to test and replace the seal on the radio.

Getting Started

How to Use This Guide

This User Guide covers the basic operation of the MOTOTRBO Portables.

However, your dealer or system administrator may have customized your radio for your specific needs. Check with your dealer or system administrator for more information.

Throughout this publication, the icons described next are used to indicate features supported in either the conventional Analog mode or conventional Digital mode:



Indicates a conventional **Analog Mode-Only** feature.



Indicates a conventional **Digital Mode-Only** feature.

For features that are available in **both** conventional Analog and Digital modes, **no** icon is shown.

Conventional Analog Mode-Only features are not available in Connect Plus mode of operation. See [Connect Plus Operations](#) on page 173 for more information.

For features that are available in a conventional multi-site mode, see [IP Site Connect](#) on page 41 for more information.

Selected features are **also** available on the single-site trunking mode, **Capacity Plus**. See [Capacity Plus](#) on page 42 for more information.

Selected features are **also** available in the multi-site trunking mode, **Linked Capacity Plus**. See [Linked Capacity Plus](#) on page 42 for more information.

What Your Dealer/System Administrator Can Tell You

You can consult your dealer or system administrator about the following:

- Is your radio programmed with any preset conventional channels?
- Which buttons have been programmed to access other features?
- What optional accessories may suit your needs?

- What are the best radio usage practices for effective communication?
- What maintenance procedures will help promote longer radio life?

Preparing Your Radio for Use

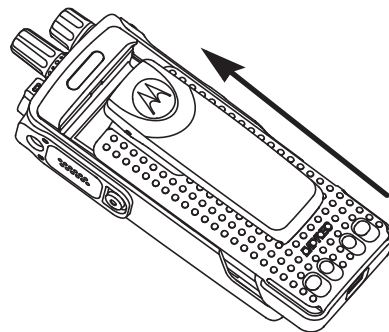
Charging the Battery

For best performance, your radio is powered by a Motorola-approved Nickel Metal-Hydrate (NiMH) or Lithium-Ion (Li-Ion) battery. To avoid damage and to ensure compliance with warranty terms, charge the battery using a Motorola charger *exactly* as described in the charger user guide. It is recommended your radio remains powered off while charging.

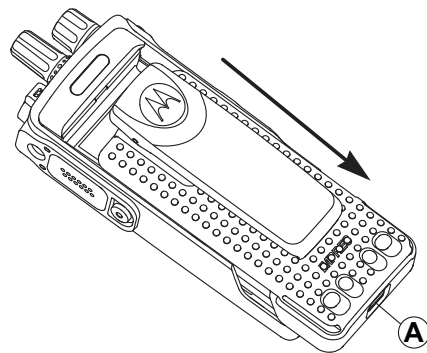
Charge a new battery 14 to 16 hours before initial use for best performance.

Attaching the Battery

- 1 Align the battery with the rails on the back of the radio. Press the battery firmly, and slide upwards until the latch snaps into place. Slide battery latch into lock position.



- 2 To remove the battery, turn the radio off. Move the battery latch (A) into unlock position and hold, and slide the battery down and off the rails.

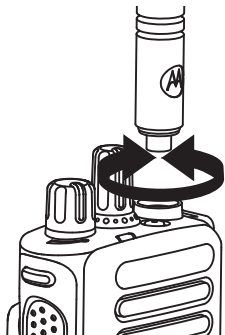


Attaching the Antenna



Caution: If antenna needs to be replaced, ensure that only MOTOTRBO antennas are used. Neglecting this will damage your radio.

- 1 With the radio turned off, set the antenna in its receptacle and turn clockwise.



- 2 To remove the antenna, turn the antenna counterclockwise.

Attaching the Belt Clip

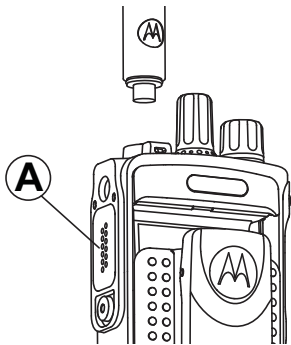
- 1 To attach the belt clip, align the grooves on the clip with those on the battery and press downward until you hear a click.



- 2 To remove the belt clip, press the belt clip tab away from the battery using a key. Then slide the clip upward and away from the radio.

Attaching the Universal Connector Cover (Dust Cover)

The universal connector (A) is located on the antenna side of the radio. It is used to connect MOTOTRBO accessories to the radio.



Insert the hooked end of the cover into the slots above the universal connector. Press downward on the cover to seat the lower tab properly into the RF connector.

Turn the thumbscrew clockwise to secure the connector cover to the radio.

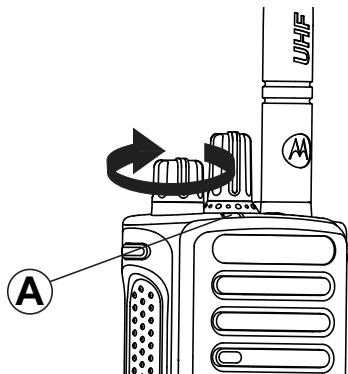
To remove the universal connector cover, press down on the cover and turn the thumbscrew counterclockwise.

Replace the dust cover when the universal connector is not in use.

Powering Up the Radio

Rotate the **On/Off/Volume Control 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 (A) and the Home screen lights up if the backlight setting is set to turn on automatically.



Note: The Home screen does not light up during a power up if the LED indicator is disabled (see [Turning the LED Indicator On or Off](#) on page 149).

A brief tone sounds, indicating that the power up test is successful.

Note: There is no power up tone if the radio tones/alerts function is disabled (see [Turning the Radio Tones/Alerts On or Off](#) on page 143).

If your radio does not power up, check your battery. Make sure that it is charged and properly attached. If your radio still does not power up, contact your dealer.

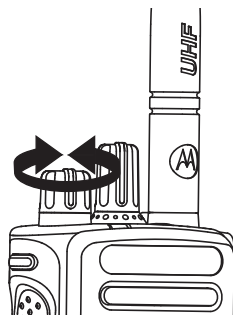
To turn off the radio, rotate this knob counterclockwise until you hear a click. You see a brief *Powering Down* on the radio's display.

Adjusting the Volume

To increase the volume, turn the **On/Off/Volume Control Knob** clockwise.

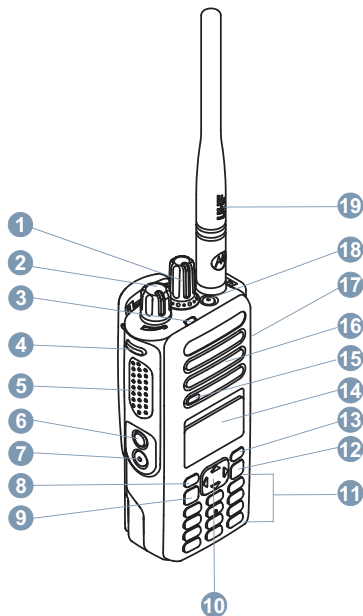
To decrease the volume, turn this knob counterclockwise.

Note: Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume. Check with your dealer or system administrator for more information.




Identifying Radio Controls

Radio Controls




- 1 Channel Selector Knob
- 2 On/Off/Volume Control Knob
- 3 LED Indicator
- 4 Side Button 1^[1]
- 5 Push-to-Talk (**PTT**) Button
- 6 Side Button 2^[1]
- 7 Side Button 3^[1]
- 8 Front Button P1^[1]
- 9 Menu/OK Button
- 10 4-Way Navigation Button
- 11 Keypad
- 12 Back/Home Button
- 13 Front Button P2^[1]
- 14 Display
- 15 Microphone
- 16 Speaker
- 17 Universal Connector for Accessories
- 18 Emergency Button^[1]
- 19 Antenna

Using the 4-Way Navigation Button

You can use the 4-way navigation button, , to scroll through options, increase/decrease values, and navigate vertically.

Category	Direction	
	▲ or ▼	◀ or ▶
Menu	Vertical Navigation	-
Lists	Vertical Navigation	-
View Details	Vertical Navigation	Previous/Next Item

You can use the 4-way navigation button, , as a number, alias, or free form text editor.

Editor Category	Direction	
	▲ or ▼	◀ or ▶
Number	-	Left : Delete last digit Right : -
Alias	-	-
Free Form Text	Move cursor up/down	Move cursor one character right/left
Numeric Values	Increase/Decrease	Move cursor one character right/left

Using the Keypad

You can use the 3 x 4 alphanumeric keypad to access your radio's features. You can use the keypad to enter subscriber aliases or IDs, and text messages. Many characters require that you press a key multiple times. The next table shows the number of times a key needs to be pressed to generate the required character.

Key	Number of Times Key is Pressed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1 ,.?	1	.	,	?	!	@	&	'	%	—	:	*	#
2 ABC	A	B	C	2									
3 DEF	D	E	F	3									
4 GHI	G	H	I	4									
5 JKL	J	K	L	5									
6 MNO	M	N	O	6									
7 PQRS	P	Q	R	S	7								
8 TUV	T	U	V	8									

Key	Number of Times Key is Pressed													
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	W	X	Y	Z	9									
	0	Note: Press to enter “0” and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.												
	* or del	Note: Press during text entry to delete the character. Press during numeric entry to enter a “*”.												
	# or space	Note: Press during text entry to insert a space. Press during numeric entry to enter a “#”. Long press to change text entry method.												
Note: For the Arabic language, the text entry orientation is from right to left.														

Non-Connect Plus Operations