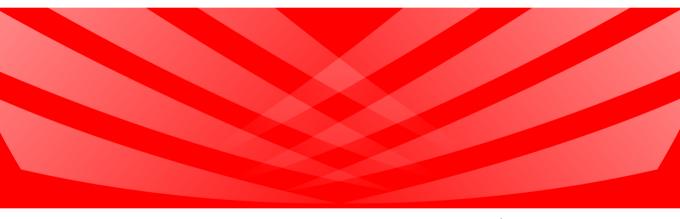


HM78X DIGITAL MOBILE RADIO





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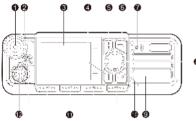
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Product Overview

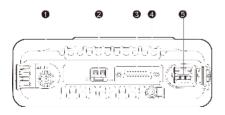
Product Layout

Front Panel



No.	Part Name	No.	Part Name
1	Smart Knob	7	On-Off Key
2	LED Indicator	8	Navigation Key
3	LCD Display	9	Speaker
4	OK/Menu Key	10	P5/Answer Key
5	Back/Subgroup Key	11	Programmable Keys
6	P6/End Key	12	Aviation Port

Rear Panel



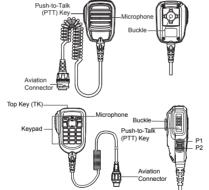
No.	Part Name	No.	Part Name
1	RF Antenna		GPS Antenna
1	Connector	4	Connector
2	Power Inlet	5	Network Port
3	Accessory	,	,
3	Connector	/	l'



NOTE

The GPS antenna connector is used only by radios with the GPS feature

Palm Microphone





NOTE

The palm microphone without keypad is available for the conventional radio and the one with keypad is for the trunking radio.

Programmable Keys

You can request your dealer to program the following keys as shortcuts to assignable radio features:

- Radio: TK, P1 key, P2 key, P3 key, P4 key, P5/Answer key, and P6/End key.
- Palm microphone with keypad: TK, P1 key, and P2 key.

Installation

Instructions

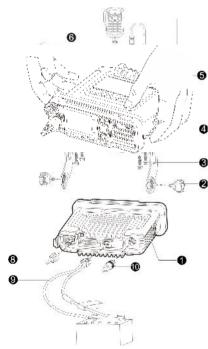
Before installing the radio in a vehicle, read the following instructions carefully:

- Before installation, check the ground polarity and voltage of the vehicle power. The radio must work with a 13.6 V±15% negative ground electrical system.
- Before installation, check how long the screws will
 extend from the bottom surface of the radio. Drill the
 mounting hole cautiously to avoid damage to the vehicle
 wiring and other parts.
- Before you install the radio in the mounting bracket, connect the antenna and power cord to the radio. Use the dedicated antenna and power cord provided by the Company for digital radios.
- Install the radio with the mounting bracket supplied by the Company, to avoid accidental radio looseness. The loose radio may cause bodily injury.
- Install the radio in a location where you can reach the front panel conveniently.
- Keep sufficient clearance at the back of the radio for wiring.
- Use the fuse with the same specification for DC power cord upon replacement.
- If any other devices are in the vicinity of the radio, keep the antenna of these devices at least 10 m away from that of the radio.

Tools

- Electric drill
- Phillips screwdriver
- T20 torx screwdriver

Parts



No.	Part Name	No.	Part Name
1	Radio	6	Screw (4 mm x 16 mm)
2	Locking Knobs	7	Microphone Hanger
3	Mounting Bracket	8	GPS Antenna
4	Screw (4.8 mm x 20 mm)	9	Power Cord (with fuse)
5	Palm Microphone	10	RF Antenna



NOTE

- The RF antenna must be purchased separately.
- The GPS antenna is available only for radios with the GPS feature.
- The palm microphone without keypad (with
 ® and
 ¬) is available for the conventional radio, and the one with keypad (with
 ® and
 ¬) is for the trunking radio.

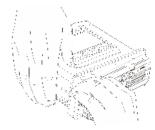
Procedure

Installing the TF Card

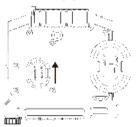
1. Release the latch on both sides of the plastic upper cover.



 Hold the front panel, and then pull and remove the plastic upper cover.



Insert the TF card to the metal card slot properly as directed in the following figure.



 Align the concave side of the plastic upper cover with the aluminum chassis, and then press the cover until the latches are properly locked.



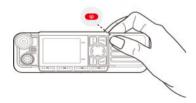
Installing the Radio

- Select a location, drill holes based on the shape of the mounting bracket, and then use the screws (4.8 mm x 20 mm) to secure the bracket.
- Connect the RF antenna, GPS antenna, and power cord to the radio
- Slide the radio into the mounted bracket, and then secure it by using the locking knobs.
- Install the microphone hanger in a location where you can reach it easily, and then use the screws (4 mm x 16 mm) to secure it.
- Align the triangle index on the palm microphone with the installation index, plug the connector into the radio, and then rotate the connector clockwise to secure it.
- Place the palm microphone on the hanger.

Basic Operations

Turning On or Off the Radio

- To turn on the radio, long press the On-Off key.
- To turn off the radio, press the On-Off key.



Adjusting the Volume

To increase or decrease the volume, rotate the **Smart** knob clockwise or counter-clockwise.



Switching the Operation Mode

The radio can operate in conventional mode, or digital/analog trunking mode (enabled by your dealer).

To switch the operation mode, do either of the following:

- Go to Menu > Mode, press the Navigation key up or down to select the mode, and then press the OK/Menu key.
- Press the preprogrammed Operation Mode Switch key.

Conventional Mode

Selecting a Zone

Go to Menu > Zone, press the Navigation key up or down to select the zone, and then press the OK/Menu key.

Selecting a Channel

Through Smart Knob

On the home screen, press the **Smart** knob, and then rotate the knob within 5s.

Through Menu

- 1 Go to Menu > Zone
- 2. Press the Navigation key up or down to select the zone.
- Press the Navigation key up or down to select the channel
- Press the OK/Menu key.

Trunking Mode

Selecting a Group or Private Contact

Through Smart Knob

On the home screen, press the **Smart** knob, and then rotate the knob within 5s

Through Menu

- On the home screen, press the Back/Subgroup key, or go to Menu > Subgroup.
- Press the Navigation key up or down to select the subgroup.
- Press the Navigation key up or down to select the group or private contact.
- 4. Press the OK/Menu key.

Selecting a Subgroup

- On the home screen, press the Back/Subgroup key, or go to Menu > Subgroup.
- Press the Navigation key up or down to select the subgroup.
- 3. Press the OK/Menu key.

Status Indications

LCD Icons

Icon	Radio Status
Ψx	The radio detects no signal.
Till	The number of bars indicates the signal strength.
L	The radio operates in low power mode.
Н	The radio operates in high power mode.
₹ 0	An accessory is connected.
盃	The Mode Automatic Switch feature is enabled.
G	The radio is scanning.
(The Voice Operated Transmit (VOX) feature is enabled.
咸	The radio operates in silent mode.

	The radio operates in profile 1.
. ₽	The radio operates in profile 2.
Δ	The radio is in emergency mode.
1.0	There is/are missed call(s).
\bowtie	There is/are unread message(s).
\times	The inbox is full.

For more status icons, refer to the User Manual

LED Indicators

LED Indicator	Radio Status
Flashes green	The radio is being turned on.
Flashes green slowly	The radio is standby in trunking mode.
Glows green	The radio is receiving.
Glows red	The radio is transmitting.
	The radio is establishing a call in
Flashes red	trunking mode. This indication is
	applicable only to the calling radio.
	Conventional mode: The radio
Flashes orange	is scanning or roaming.
slowly	Trunking mode: The radio is
	scanning.
	Conventional mode: The radio
	is operating in emergency mode.
Elashar anna	Trunking mode: The radio is
Flashes orange	establishing a Full Off Air Call
rapidly	Set-up (FOACSU) private call.
	This indication is applicable
	only to the called radio.
	Call hang time: No voice is being
	transmitted or received during a call.
Glows orange	Within such a period, you can press
	and hold the PTT key and speak.

Flashes blue every 3s	The BT feature is enabled, but no BT device is connected.
Flashes blue every 1.5s	A BT device is connected.
Flashes blue every 0.1s	The BT feature is being disabled.

Call Services

Call on Digital Channel

Through Smart Knob

- On the home screen, press the Smart knob.
- Rotate the Smart knob within 5s to select the digital channel or contact.
- 3. Press and hold the PTT key.

Through Menu

- Go to Menu > Contact or Zone/Subgroup.
- Press the Navigation key up or down to select the contact.
- 3. Press and hold the PTT key.

Call on Analog Channel

Call Without Signaling

- On the home screen, press the Smart knob.
- Rotate the Smart knob within 5s to select the analog channel.
- Press and hold the PTT key.

Call with Signaling

Go to Menu > Contact > Contact/Favorite, or press the preprogrammed Contact List key.

- Press the Navigation key up or down to select the contact.
- Press and hold the PTT key, or press the preprogrammed
 One Touch Call/Menu key.

Emergency Call

The Emergency feature is configured and enabled by your dealer. For details, refer to the User Manual.



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