Application for FCC / IC FCC ID: K6620345X40 / IC: 511B-20345X40



FTM-400XDR/DE Operating Manual

144/430MHz 50W DUAL BAND TRANSCEIVER

C4FM FDMA/FM

VFO 446.500 FN W SOL MUTE SCOPE Before Using

Installation and Connection

Basic Operations

Using the Memory

Scanning

Using the GPS Function

Using the APRS Function

Using the GM Function

Convenient Functions

Functions to be used when Necessary

Customize Menu Settings and User Preferences

Appendix

Introduction

Features of this radio

- O 144/430 MHz dual band mobile radio equipped with standard C4FM digital communication modem
- O Clear audio and data communication is achieved using the digital modem functions
- Wide band receive in the 108 MHz to 999 MHz range (wireless business, public service and air band)
- O Transmit power 50 watts with cooling fan
- O Full color 3.5-inch LCD, high luminance TFT touch panel controller
- O Intuitive, user touch panel operation
- 500 memory channels in the Band A (band at the top of the display) and 500 channels in the Band B (band at the bottom of the display)
- The frequency and settings memories can be saved, using a micro-SD card. The data in the micro-SD card can easily be copied to other radios
- O Diverse range of scanning functions (VFO scan, memory scan etc.)
- Built-in GPS receiver unit, location and movement information can be displayed and GPS data can be output to connected devices
- Incorporated APRS[®] functions. Position, movement data and messages can be communicated to other stations, digipeaters and the Internet.
 *Befor to the concrete "APBS Operating Manual"
 - *Refer to the separate "APRS Operating Manual"
- GM (Group Monitor) function where in a group of frequently communicating members can be registered, and then position information and messages can be exchanged <u>*Refer to the separate "GM Operating Manual"</u>
- Supports Yaesu WIRES-X Internet linking, providing communication with remote partners using the Internet

*Refer to the separate "WIRES-X Operating Manual"

- O Bluetooth adaptor unit BU-2 (sold separately) permits hands-free operation
- Voice guide unit FVS-2 (sold separately) provides frequency voice announcement, and recording of received audio
- Camera-equipped microphone MH-85A11U (sold separately). Images taken with the camera can be transmitted to other stations, and also shown on the LCD display.
- * The APRS, GM and WIRES-X Operating Manuals are not included with the product. Please download them from the Yaesu website.

Introduction

Important precautions for mobile radio operation

- O The use of protective tape or covering is recommended to protect the wiring and the power cord inside the vehicle.
- O When installing the unit inside a vehicle, locate the radio, antenna, co-axial cable, etc. at least 20 cm away from the following control equipment.
 - Engine-related: Fuel injection equipment and engine control
 - Transmission-related: Transmission and 4WD electronic control unit
 - Others: ECS/EPS/ABS/ETACS/Fully automatic air-conditioner/ Auto-heater control unit/G sensor
- Install the antenna and co-axial cable away from the control unit and wiring harness. Place all cables so they do not entangle and impede the driver or passengers. Never place any equipment in a location where it may pose a danger to the passengers, where it may interfere with driving, or obstruct the driver field of view.
- Do not install any apparatus in such a way that it may interfere with the proper operation of the air bags.
- After installing the radio, check that the brake lamp, head lamp, turning indicator lights, wiper, etc. are working normally with the radio power switched on.
- O Keep full attention on driving, do not operate the radio controls or look at the radio display while driving. Stop the vehicle at a safe location, before operating the radio controls or looking at the display.
- Do not drive the car in such a way that external sounds required for safe driving cannot be heard. Most areas and districts prohibit the use of earphones and headphones while driving.
- O When using the radio transmitter, if it appears to have abnormal effects on the control equipment of the vehicle, stop the engine, turn off the power supply, and disconnect the power cord. Resolve the problem before continuing to operate the radio equipment.
- O When using the radio in an electric or hybrid car, the receiver may experience high RF interference and noise from the inverters that are built into the electric vehicle.

About the touch panel

• Precautions in using the touch panel

The touch panel of the controller is designed to work with the slightest touch of a finger.

- O The touch panel may not work when a protective film or sheet is adhered to the LCD.
- Use of a pointed fingernail or pen to operate the touch panel, or pressing too hard may damage or scratch the screen.
- O Smart phone operations such as flicking, pinch in and pinch out are not possible.

Maintaining the touch panel

 O To clean the touch panel, switch off the power supply first before using a dry, soft cloth to wipe away dust and dirt from the touch panel.
 When the touch panel is really dirty, wet a soft cloth and wring it out thoroughly before

When the touch panel is really dirty, wet a soft cloth and wring it out thoroughly before using it to wipe the touch panel.

• When wiping the touch panel, be careful not to wipe too hard or scratch the surface with your nails.

When the touch panel is scratched, it may become difficult to see the display.

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Introduction

How to read this manual

In this manual, controller operations are expressed as follows:

Press DBP	Indicates that the key or switch is to be pressed quickly.
Press Est for 1 second or longer	Indicates that the key or switch is to be pressed for one second or longer.
Touch [SQL]	Indicates that the symbol on the touch panel screen is to be touched quickly.
Touch [SQL] for 1 second or longer.	Indicates that the symbol on the touch panel screen is to be touched for one second or longer.
Select [MODE]	Indicates that the items are to be highlighted on the touch panel screen.
The following symbols are also used	in this manual:

The following symbols are also used in this manual:

Caution	Explains information to avoid incorrect operation.
Tip	Explains operating hints and helpful advice.

Also note: the actual product may differ from the drawings shown in this manual.

Contents

Introduction Features of this radio Important precautions for mobile radio operation . About the touch panel About registered trademarks and copyrights	.2 .3 .4 .4
How to read this manual	
Before Using Safety Precautions (make sure to read these) Accessories	. 9 13
Name and Function of Each Component	
Front Back	
Left side Main body	
Front	16
Microphone (MH-48A6JA) Explanation of the screen	17
Installation and Connection	
Installing the Radio	
Precautions during installation Installation location when used in a	24
mobile unit	
About the antenna Install the antenna	
Installing the main body	
Installing the controller	
Connecting the Radio	
Connecting the controller to the main body	
Connecting the microphone	
Connecting the antenna	
Connecting the Power Supply	
Connecting the rower Supply	
Connecting the external	00
power supply equipment	32
Setting Up the micro-SD Card	
Micro-SD cards that can be used	33
Things to note when using micro-SD cards	33
Installing the micro-SD card	
Removing the micro-SD card	34
Initializing the micro-SD card	35
Basic Operations	36
Receiving	
Turning the power on	
Switching the power off	
Inputing the call sign	
Switching the operating band	
Adjusting the volume	
Adjusting the squelch level	
Tuning the radio	
Changing the frequency steps	
Switching the operating mode	
Switching the communication mode	45
Switching the modulation mode	46

Displaying the band scope
Muting the audio
Communicating
Transmitting
Adjusting the transmit power
Adjusting the sensitivity of the microphone 50 Communicating in the FM mode
Communicating using the repeater
Changing the beep volume
Locking the knobs and switches
Adjusting the date and time
Adjusting the display brightness
Changing the background color of the
frequency display area 60
Reconfiguring the Settings
Using the Memory62
Writing to the memory62
Recalling the memory63
Recalling the home channel63
Changing the frequency of the home channel 64
Erasing the memory65
Naming the memory66
Changing the method of the
memory tag display 67
Split memory
Receiving Weather Broadcast Channels
(USA version only)70
Assigning the "WX" function to a programmable key on the microphone 71
Recalling the weather channels
Listening the weather alert
Scanning72
Signal Search72
VFO scan72
Setting the receive operation when the
scanning stops 73
Memory scan74
Selecting the scanning method
Setting the specified memories
Scan only the specified memory channels 76
Setting the memories to be skipped
Scanning the programmable memories (PMS) 79
Writing into the programmable memory
Scanning the programmable memory

Application for 100 / 10
K6620345X40 / IC: 511B-20345X40

Displaying the current position
information of your station 87
Displaying the position information
of the partner station in the digital mode 87
Explanation of the position information
screen 88 Recording the position information
(GPS log function) 89
Checking the route using a
personal computer 90
Measuring the altitude
Other settings92
Using the Smart Navigation Function
Displaying the Compass screen
Using the real-time navigation function
Using the backtrack function
Saving the destination
Displaying the position of the
destination in real time 97
Using the APRS Function98
What is the APRS Function?
Using the GM Function
What is the GM Function?
Basic Methods to use the GM function
Convenient Functions
Communicating with Specified Partner Stations 102
Using the tone squelch 102
Setting the tone frequency 102
Using the tone squelch103
Transmitting the tone signal 103
Using digital code squelch 104
Setting the DCS code
Using DCS
Using the pager function
Setting the receive station code
Activating the pager function
Recalling a specified station
Notification of an incoming call from a partner station using the bell110
Other squelch functions110
Using the DTMF Function
Registering the DTMF code
Transmitting the registered DTMF code
Sending out the DTMF code manually
Using the Timer Function
Using the stopwatch function
Displaying the timer / clock screen
Using the lap timer
Using the countdown timer
Using the APO function
Using the TOT function
Changing the Touch Key Function
Sending and Receiving Messages and Pictures 122
Viewing messages and pictures
Sorting the messages and pictures 123

Contents

Downloading messages and images 124
Sending messages and pictures 125
Creating and sending a message 125
Sending saved pictures 129
Replying to a message or picture
Forwarding messages and pictures
Functions to be Used when Necessary 134
Using the Bluetooth Headset
Mounting the Bluetooth unit "BU-2" 134
Setting the Bluetooth headset operation
Identifying the Bluetooth headset 137
Using the Bluetooth headset 139
Taking Pictures with the optional Camera
(Snapshot Function) 140
Connecting the speaker microphone
with camera 140
Taking pictures 141
Viewing a saved picture
Optional receive Audio Record and Playback 144
Mounting the voice guide unit "FVS-2" 144
Using the voice memory
Setting the voice memory operation
Recording the receive audio
Replaying the recorded audio
Erasing the recorded audio
Listening to the frequency
voice announcement 149
Cotting the ennounce function energian 110
Setting the announce function operation 149
Listening to the frequency
Listening to the frequency voice announcement 150
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card 151 Copying data to a micro-SD card 151 Copying data from the micro-SD card 152 Using the clone function
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card 151 Copying data to a micro-SD card 151 Copying data from the micro-SD card 152 Using the clone function
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement 150 Copying the Radio Data to another Transceiver 151 Using the micro-SD card
Listening to the frequency voice announcement

Setting the display background color 172 Setting the band scope display width 172 Setting the display brightness 173

Contents

Setting the display contrast 173
Switching the time display
and the voltage display 173
Transmit and receive settings 174
Setting the signal format 174
Setting the AMS transmission mode 174
Setting the squelch type of the
digital mode 175
Setting the squelch code of the
digital mode 176
Setting the pop-up time for the
partner station information 177
Setting the display method for my position 178
Setting the Standby Beep
Displaying the version of the DSP program 178
Setting the sub-band mute
Setting the sensitivity of the microphone 179
Memory channel settings
Setting the display method for the
memory tag 179
Setting the memory scan method
Tone signal settings
Setting the squelch tone frequency
(CTCSS) 180
Setting the DCS code
of the DTMF code 180 Registering the DTMF code 180
Recalling only specified stations
Setting the user programmed
reverse CTCSS tone 180
Using the bell Notification of an
incoming call from a partner station
using the bell 181
Setting the squelch type separately
for transmit and receive 181
Setting the weather alert operation
(USA Version Only) 182
Scan settings
Setting the signal reception method
Setting the scanning direction
Setting the receive operation
when the scanning stops 183
Group monitor function settings
Settings on the functions and configuration 183
Setting the date and time
Setting the display format for the
date and time 184
Setting the time zone 185
Setting the auto repeater shift 186
Setting the direction of the repeater shift 186
Setting the shift width of the repeater 187
Setting the frequency step 188
Setting the volume of the beep 188
Setting the clock shift of the CPU 188
Setting the program key of the microphone 189
Expanding the receive range 190

Setting the unit display 191
Switching the power off automatically 191
Limiting the continuous transmission time 191
Setting the PIN code of the
optional Bluetooth headset 191
Setting the geodetic reference system
of the GPS function 192
Positioning using the external GPS device 192
Setting the interval for recording the
GPS position information 192
•
Data communication settings
Setting the COM port 193
Setting the operating band of the
APRS and data communication 196
Setting the baud rate of the APRS and
data communication 197
Setting the output condition of the
squelch detection and squelch terminal 198
APRS function settings 199
Micro-SD card settings 199
Writing settings to the micro-SD card
Writing group IDs to the micro-SD card 200
Initializing the micro-SD card
Optional device settings
Setting the image of the connected
speaker microphone with camera 200
Setting the operation of the
Bluetooth headset 201
Setting the voice memory operation
Initialization and saving settings
Reconfiguring the settings
Registering the preset 201
Recalling the registered preset
Sorting the registered memory channels 203
Copying saved data 203
Call sign settings204
Changing the call sign
Appendix 206
Options List
Maintenance 207
Care and maintenance207
Replacing the fuse
When you have difficulties
There is no power
There is no sound
There is no sound
There is no sound208There is no transmission208The keys or knobs will not operate208
There is no sound208There is no transmission208The keys or knobs will not operate208About internal spurious signals209
There is no sound208There is no transmission208The keys or knobs will not operate208About internal spurious signals209After-market Services209
There is no sound208There is no transmission208The keys or knobs will not operate208About internal spurious signals209
There is no sound208There is no transmission208The keys or knobs will not operate208About internal spurious signals209After-market Services209

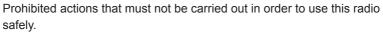
Make sure to read this manual in order to use this radio safely and correctly.

Note beforehand that the company shall not be liable for any damages suffered by the customer or third parties in using this product, or for any failures and faults that occur during the use or misuse of this product, unless otherwise provided for under the law.

Type and meaning of the marks

DANGER	This symbol indicates the possibility of death or serious injury being inflicted on the user and the surrounding people when these instructions are ignored and the product is handled wrongly.
A WARNING	This symbol indicates the possibility of death or serious injury being inflicted on the user and the surrounding people when these instructions are ignored and the product is handled wrongly.
A CAUTION	This symbol indicates the possibility of physical impediments occurring or impediments being inflicted on the user and the surrounding people when these instructions are ignored and the product is handled wrongly.

Type and meaning of symbols



For example, S signifies that disassembly is prohibited.



Precautions that must be adhered to in order to use this radio safely. For example, **c** signifies that the power supply is to be disconnected.



Do not use the device in "regions or aircrafts and vehicles where its use is prohibited" such as in hospitals and aeroplanes.

This may exert an impact on electronic and medical devices.

Do not use this product while driving or riding a motorbike. This may result in accidents.

Make sure to stop the car in a safe location first before use if the device is going to be used by the driver.



Never touch the antenna during transmission.

This may result in injury, electric shock and equipment failure.



When an alarm goes off with the external antenna connected, cut off the power supply to this radio immediately and disconnect the external antenna from this radio. If not, this may result in fire, electric shock and equipment failure.



Do not operate the device when flammable gas is generated. Doing so may result in fire and explosion.

Do not transmit in crowded places in consideration of people who are fitted with medical devices such as heart pacemakers.

Electromagnetic waves from the device may affect the medical device, resulting in accidents caused by malfunctions.

Do not touch any liquid leaking from the liquid display with your bare hands.



There is a risk of chemical burns occurring when the liquid comes into contact with the skin or gets into the eyes. In this case, seek medical treatment immediately.

.....



Do not use voltages other than the specified power supply voltage.

Doing so may result in fire and electric shock.

Do not transmit continuously for long periods of time.

This may cause the temperature of the main body to rise and result in burns and failures due to overheating.



Do not dismantle or modify the device.

This may result in injury, electric shock and equipment failure.

Do not handle the power plug and connector etc. with wet hands. Also do not plug and unplug the power plug with wet hands.

This may result in injury, liquid leak, electric shock and equipment failure.

When smoke or strange odors are emitted from the radio, turn off the power and disconnect the power cord from the socket.



This may result in fire, liquid leak, overheating, damage, ignition and equipment failure. Please contact our company amateur customer support or the retail store where you purchased the device.



Keep the power plug pins and the surrounding areas clean at all times. This may result in fire, liquid leak, overheating, breakage, ignition etc.

Do not place the device in areas

that may get wet easily (e.g. near a humidifier). This may result in fire, electric shock

and equipment failure.



When connecting a DC power cord, pay due care not to mix up the positive and negative polarities. This may result in fire, electric shock and equipment failure.



Do not use DC power cords other than the one enclosed or specified. This may result in fire, electric shock and equipment failure.



Do not bend, twist, pull, heat and modify the power cord and connection cables in an unreasonable manner.

This may cut or damage the cables and result in fire, electric shock and equipment failure.



Do not pull the cable when plugging and unplugging the power cord and connection cables.

Please hold the plug or connector when unplugging. If not, this may result in fire, electric shock and equipment failure.

Do not use the device when the power cord and connection cables are damaged, and when the DC power connector cannot be plugged



in tightly.

Please contact our company amateur customer support or the retail store where you purchased the device as this may result in fire, electric shock and equipment failure.



Never cut off the fuse holder of the DC power cord.

This may cause short-circuiting and result in ignition and fire.



Do not use fuses other than those specified.

Doing so may result in fire and equipment failure.

Do not allow metallic objects such as wires and water to get inside the product.

This may result in fire, electric shock and equipment failure.



Refrain from using headphones and earphones at a loud volume. Continuous exposure to loud volumes

may result in hearing impairment.



Disconnect the power cord and connection cables before incorporating items sold separately and replacing the fuse.

This may result in fire, electric shock and equipment failure.



Follow the instructions given when installing items sold separately and replacing the fuse.

This may result in fire, electric shock and equipment failure.

Do not use the device when the alarm goes off. For safety reasons, please pull the

 \bigcirc

power plug of the DC power equipment connected to the product out of the AC socket.

Never touch the antenna as well. This may result in fire, electric shock and equipment failure due to thunder.



Do not place this device near a heating instrument or in a location exposed to direct sunlight. This may result in deformation and

discoloration.



Do not place this device in a location where there is a lot of dust and humidity.

Doing so may result in fire and equipment failure.

Stay as far away from the antenna as possible during transmission.

Long-term exposure to electromagnetic radiation may have a negative effect on the human body.

Do not wipe the case using thinner and benzene etc.

Please use a soft and dry piece of cloth to wipe away the stains on the case.



For safety reasons, switch off the power and pull out the DC power cord connected to the DC power connector when the device is not going to be used for a long period of time.

If not, this may result in fire and overheating.



Do not throw or subject the device to strong impact forces.

This may result in equipment failure.



Do not the put this device near magnetic cards and video tapes. The data in the cash card and video tape etc. may be erased.



Do not turn on the volume too high when using a headphone or earphone.

This may result in hearing impairment.



Keep out of the reach of small children.

If not, this may result in injuries to children.

Do not put heavy objects on top of the power cord and connection cables.

This may damage the power cord and connection cables, resulting in fire and electric shock



Do not transmit near the television and radio.

This may result in electromagnetic interference.

Do not use optional products other than those specified by our company.

If not, this may result in equipment failure.

When using the device in a hybrid car or fuel-saving car, make sure to check with the car manufacturer before using.

The device may not be able to receive transmissions normally due to the influence of noises from the electrical devices (inverters etc.) fitted in the car.

Do not place the device on an unsteady or sloping surface, or in a location where there is a lot of vibration.

The device may fall over or drop, resulting in fire, injury and equipment failure.

Do not stand on top of the product, and do not place heavy objects on top or insert objects inside it. If not, this may result in equipment



failure. Do not use a microphone other than

those specified when connecting a microphone to the device.

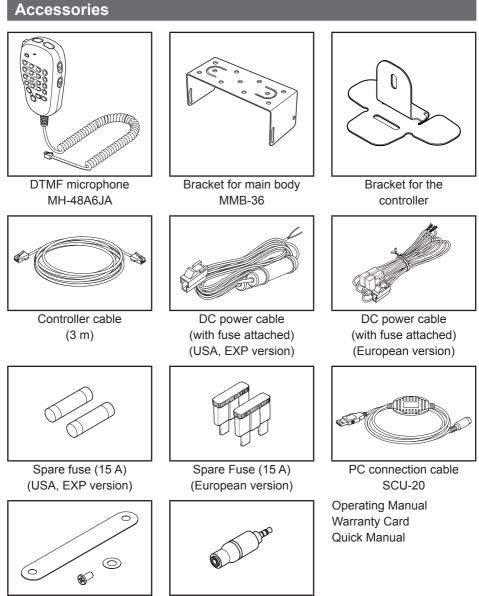
If not, this may result in equipment failure.

Do not touch the heat radiating parts.

When used for a long period of time, the temperature of the heat radiating parts will get higher, resulting in burns when touched.

Do not open the case of the product except when replacing the fuse and when installing items sold separately.

This may result in injury, electric shock and equipment failure.



Microphone cord holder

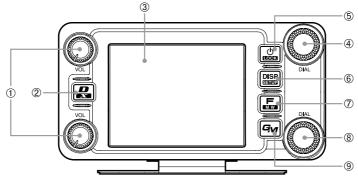
Stereo to Monaural Plug

Tip =

Various optional parts are also available. Refer to Page 206 for details. Before Using

Controller

Front



1) VOL knob (🐼 🚇)

The volume will increase when the knob is turned in a clockwise direction and decrease when turned in an counter-clockwise direction.

The upper end is for Band A use while the lower end is for Band B use.

② D/X key ()

The communication mode changes each time this key is pressed for a short time. Tip Refer to Page 45 for the communication mode.

WIRES-X will start when this key is pressed for one second or longer.

- ③ Touch panel display
- ④ Band A DIAL knob (🐼)
 - The frequency of the upper band in the dual band display can be adjusted. The frequency will increase when the knob is turned in a clockwise direction and decrease when turned in an counter-clockwise direction.

Press the knob to enable setting the operating band frequency in 1 MHz units. Press the knob for one second or longer to enable setting the frequency in 5 MHz units.

- In memory mode when the knob is pressed for one second or longer, if a tag (name) is attached to the memory channel, the tag and frequency displays will be reversed.
- This knob is also used to select the items during the set up and memory operations, group monitor operations, etc.
- ⑤ Power supply/LOCK switch () Press this button for 2 seconds or longer to switch the power on and off. The key lock can be engaged or released by pressing the button quickly while the radio is turned on.
- 6 DISP/SETUP key (B)

The display screen will change each time the button is pressed quickly.
Tip Refer to Page 20 for the display.

14 Press the button for one second or longer to display the set-up menu.

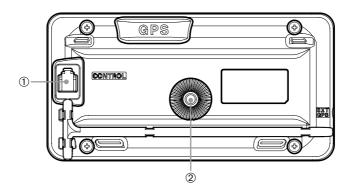
⑦ F/MW key (🔚)

Press the button quickly to display the function menu. Press the button for 2 seconds or longer to change to the memory writing mode.

- 8 Band B DIAL knob ()
 - The frequency of the upper band in the dual band display can be adjusted.
 Press the knob to enable setting the operating band frequency in 1 MHz units.
 Press the knob for one second or longer to enable setting the frequency in 5 MHz units.
 - In memory mode when the knob is pressed for one second or longer, if a tag (name) is attached to the memory channel, the tag and frequency displays will be reversed.
- 9 GM key (59)

Press this key to start the group monitor function.

Back

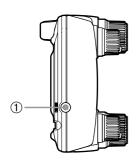


① CONTROL jack

Plug in the control cable into this jack to connect with the main body.

2 Screw hole to attach the mounting bracket

Left side

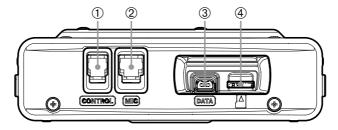


① EXT GPS jack

Plug in a cable to connect with external GPS devices.

Main body

Front



① CONTROL jack

Plug in the control cable into this jack to connect with the controller.

2 MIC jack

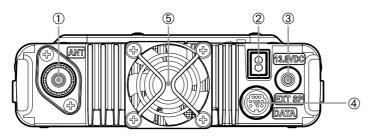
Plug in the provided microphone cable.

③ DATA jack

Connect MH-85A11U, the optional speaker microphone with camera.

- * There is no audio output available from the FTM-400XDR/DE to the MH-85A11U speaker.
- ④ micro-SD card slot

Back



① ANT terminal

Connect the co-axial cable for the antenna.

2 13.8 VDC

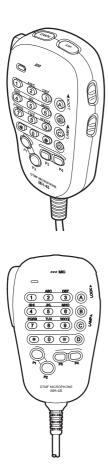
Connect the provided DC power supply cable (with fuse attached).

- ③ EXT SP jack Connect the optional external speaker.
- ④ DATA jack

Connect a cable for remote operation or the cable for connecting with the personal computer interface unit and the external terminal unit (resp. 155 Page).

5 Cooling fan

Microphone (MH-48A6JA)



[UP] [DWN] [LOCK]	Frequency is increased by 1 step. Frequency is decreased by 1 step. Locks / unlocks the [UP] and [DWN] keys and [P1] to [P4] keys.
[LAMP]	Turns the lamp on the body of the microphone on/off.
[MIC]	Speak into here during transmission.
[1] to [0]	Enters the numbers and letters.
[*]	Changes the VFO/Memory operating mode of the operating band.
[#]	Activates the GM (Group Monitor) functions.
[A]	Switches the operating band to Band A.
[B]	Switches the operating band to Band B.
[C]	Adjusts the squelch level.
[D]	Switches the display.
[P1]	Turns off the squelch (T.CALL: European version).
[P2]	Recalls the receiver home channel.
[P3]	Changes the communication mode.
[P4]	Changes the transmit power.
[PTT]	Press this key to begin the transmit mode.

Tip =

Preferred functions can be assigned to buttons [P1] to [P4]. Select using the [CONFIG] \rightarrow [10 MIC PROGRAM KEY] in the set-up menu.