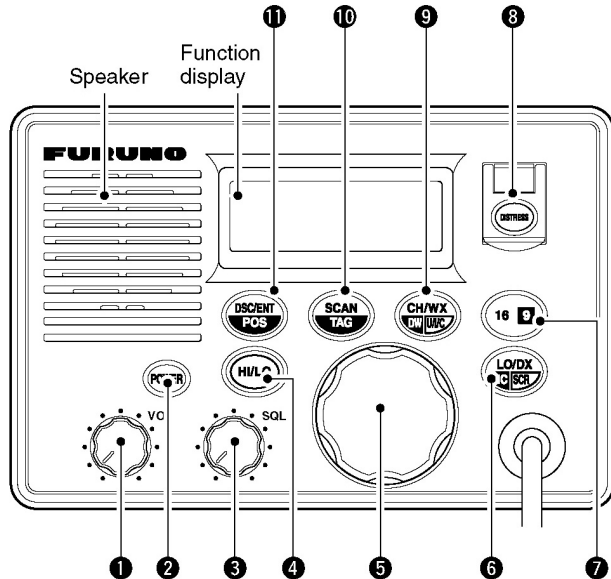


FM3000 VHF Radio Operations and Information Quick Guide

Specifications: 13.8VDC +/- 15% @ 5.5A max (TX), Output power:25W (High) or 1W (low), Audio power:4.5W @4 ohm load

FM3000 VHF Radio Front Panel



- ➊ **[VOL] control** (p. 7)
Adjusts the audio level.
- ➋ **[POWER] key**
Toggles the transceiver power ON or OFF.
- ➌ **[SQL] control** (p. 7)
Sets the squelch threshold level.
- ➍ **[HI/LO] key**
 - ➔ Toggles power high or low when pushed. (p. 7)
 - Some channels are set to low power only.
 - ➔ While pushing this key, some keys perform secondary functions.
- ➎ **[CHANNEL] knob**
 - ➔ Rotate **[CHANNEL]** to select the operating channels, Set mode settings, etc. (pgs. 7, 37)
 - ➔ While pushing **[HI/LO]**, rotate **[CHANNEL]** to adjust the brightness of the LCD and key backlight. (p.36)
- ➏ **[LO/DX] (**[IC]** **[SCR]**) key**
 - ➔ Toggles the Attenuator function ON or OFF when pushed momentarily. (p. 7)
 - "LOCAL" appears when the Attenuator is in use. The order of indication precedence is "SP OFF," "LOCAL" and "CALL"
 - ➔ Activates an optional Intercom function when pushed for 1 sec. (p. 35)
 - ➔ Calls optional FM-3010 when pushed and held while in Intercom mode. (p. 35)
 - ➔ While pushing **[HI/LO]**, activates an optional Voice scrambler function. (p. 9)
 - The optional Voice scrambler function cannot be used on Channel 16 and 70.
- ➐ **[16] (**[9]**) key**
 - ➔ Selects Channel 16 when pushed. (p. 5)
 - ➔ Selects call channel when pushed for 1 sec. (p. 5)
 - "CALL" appears when call channel is selected. "SP OFF" and "LOCAL" indications have priority.
 - ➔ Push for 3 sec. to enter call channel programming condition when call channel is selected. (p. 8)
 - ➔ While pushing **[HI/LO]**, enters channel comments programming condition. (p. 8)
 - ➔ Enters Set mode when pushed while turning power ON. (p. 37)
- ➑ **[DISTRESS] key**
Transmits Distress call when pushed for 5 sec. (p. 17)
- ➒ **[CH/WX] (**[DW]** **[U/C]**) key**
 - ➔ Selects and toggles the regular channels and weather channel when pushed momentarily. (p. 6)
 - ➔ While pushing **[HI/LO]**, selects one of 3 regular channels in sequence when pushed. (p. 6)
 - International, U.S.A. and Canadian channels are available for regular channels.
 - ➔ Starts Dualwatch or Tri-watch when pushed for 1 sec. (p. 10)
 - ➔ Stops Dualwatch or Tri-watch when either is activated.
- ➓ **[SCAN] (**[TAG]**) key** (p. 12)
 - ➔ Starts and stops Normal or Priority scan when tag (scanned) channels are programmed.
 - ➔ Push **[SCAN] (**[TAG]**)** for 1 sec. to set or cancel the displayed channel as a tag (scanned) channel.
 - ➔ While pushing **[HI/LO]**, push for 3 sec. to clear or set all tag channels.
- ➔ **[DSC/ENT] (**[Pos]**) key**
 - ➔ Selects the DSC menu when pushed. (p. 13)
 - ➔ Shows current position and time from a GPS receiver, etc. when pushed for 1 sec. (p. 16)

Notes and troubleshooting:

Intercom mode: Inhibits transmit (TX) and receive (RX) functions

Microphone Lock Function: Press and hold the [16/9] key on the microphone, turn power "ON" to toggle the lock function on or off.

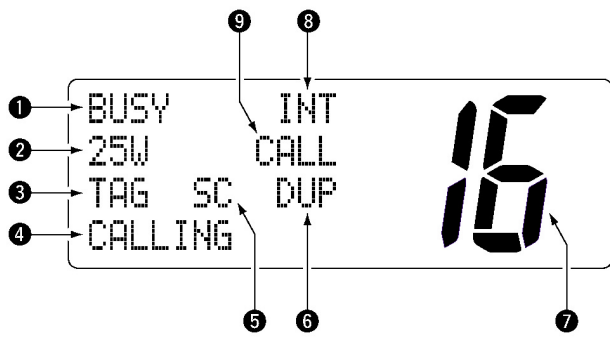
No speaker sound: Internal speaker may be turned "off", use the Set Mode (see page 2) to turn "on".

Sensitivity is low: The attenuator may be activated, Press [LO/DX] to turn the function "off".

No Transmit or high power: Some channels are for low power or receive only, change channels and/or press [HI/LO] for high power.

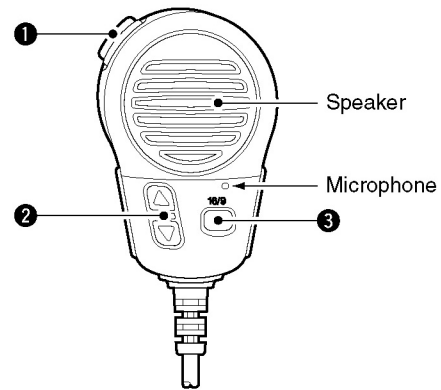
Scan does not start: "TAG" channel is not programmed; set desired "TAG" channels (see page 12 of the operators manual).

Distress call will not transmit: MMSI (Maritime Mobile Service Identity) code is not programmed (see operator manual page 13).



- 1 **BUSY/TRANSMIT INDICATOR** (p. 7)
 - ➔ "BUSY" appears when receiving a signal or when the squelch opens.
 - ➔ "TX" appears while transmitting.
- 2 **POWER INDICATOR** (p. 7)
 - ➔ "25W" appears when high power is selected.
 - ➔ "1W" appears when low power is selected.
- 3 **TAG CHANNEL INDICATOR** (p. 12)
 - Appears when a tag channel is selected.
- 4 **CHANNEL COMMENT INDICATOR**
 - ➔ Channel comment appears if programmed. (p. 8)
 - ➔ "Low Battery" blinks when the battery voltage drops to approx. 10 V DC or below.
 - ➔ "DUAL" appears during Dualwatch; "TRI" appears during Tri-watch. (p. 10)
- 5 **SCRAMBLER INDICATOR** (p. 9)
 - Appears when an optional Voice scrambler is activated.

- 6 **DUPLEX INDICATOR** (p. 6)
 - Appears when a duplex channel is selected.
 - Duplex channel has a different TX and RX frequency.
- 7 **CHANNEL NUMBER READOUT**
 - ➔ Indicates the selected operating channel number.
 - "A" appears when a simplex channel is selected. "b" appears when a receive only channel for a Canadian channel group is selected. (p. 6)
 - ➔ In Set mode, indicates the selected condition. (p. 37)
- 8 **CHANNEL GROUP INDICATOR** (p. 6)
 - Indicates whether an International "INT," U.S.A. "USA," Canadian "CAN" or weather "WEATHER" channel is selected.
- 9 **CALL CHANNEL INDICATOR**
 - ➔ "CALL" appears when call channel is selected. (p. 5)
 - ➔ "SP OFF" appears when the internal speaker is turned OFF in Set mode. (p. 39)
 - ➔ "LOCAL" appears when the Attenuator is in use. (p. 7)
 - The order of indication precedence is "SP OFF," "LOCAL" and "CALL."



- 1 **[PTT] switch** (p. 7)
 - Push and hold to transmit; release to receive.
- 2 **CHANNEL UP/DOWN KEYS [▲]/[▼]** (pgs. 7, 37)
 - Push either key to change the operating channel, Set mode settings, etc.
- 3 **[16/9] key**
 - ➔ Push to select Channel 16; push for 1 sec. to select call channel (default is Channel 9). (p. 5)
 - ➔ While pushing [16/9], turn power ON to toggle the Lock function ON or OFF. (p. 36)

Set Mode Programming: Press and hold [16/9] key and power "ON". After display appears release [16/9] key. Press [16/9] key to select item, rotate [CHANNEL] knob to select condition. Power "OFF" then "ON" to exit Set mode.

