

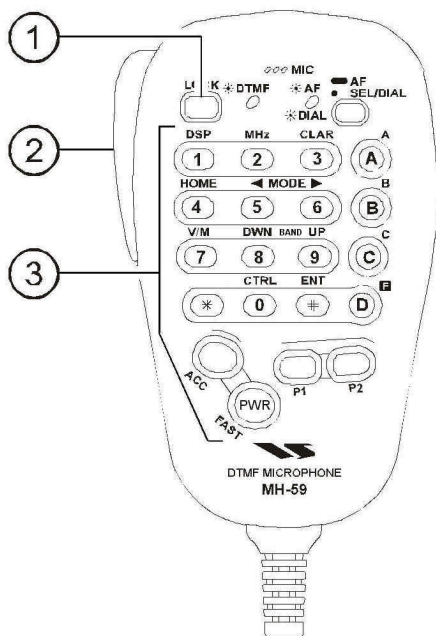
## MH-59A8J Remote Microphone

The optional **MH-59A8J** Remote Microphone provides control of the major functions of the **FT-897** from the microphone's keypad. The **MH-59A8J** includes a rotary control knob for adjust the operating frequency and receiver audio volume level.

Before connecting the **MH-59A8J**, you must instruct the **FT-897's** microprocessor that the **MH-59A8J** is being used, using the Menu Mode:

1. Press and hold in the **[FUNC]** key for one second to activate the Menu Mode.
2. Rotate the **SELECT** knob to recall Menu Mode **No-001 [EXT MENU]**, then rotate the **DIAL** to change the setting to **"ON"** to enable the extended Menu Mode.
3. Rotate the **SELECT** knob to recall Menu Mode **No-059 [MIC SEL]**. The default setting for this Menu is **"NOR"**. Rotate the **DIAL** to change the setting to **"RMT"**.
4. Press and hold in the **[FUNC]** key for one second to save the new setting and exit to normal operation.

### MH-59A8J Switches and Controls



#### (1) LOCK Switch

Pressing this key locks the **FT-897's** front panel keys so as to prevent accidental frequency change.

#### (2) PTT Switch

Press this switch to transmit, and release it to receive.

#### (3) Keypad

##### [1(DSP)] key

Pressing this key provides instant access to Multi Function Row "p" (**MFp**), which contains the command keys for the receiver's Digital Signal Processing System. This key generates the DTMF "1" tone during transmission, and frequency entry digit "1" during Direct Keypad Frequency Entry.

##### [2(MHz)] key

Pressing this key allows tuning in 1-MHz steps of the VFO frequency.

This key generates the DTMF "2" tone during transmission, and frequency entry digit "2" during Direct Keypad Frequency Entry.

##### [3(CLAR)] key

Pressing this key momentarily activates the Receiver Clarifier ("R.I.T.") feature.

Press and hold in this key for one second to activate the IF Shift feature.

This key generates the DTMF "3" tone during transmission, and frequency entry digit "3" during Direct Keypad Frequency Entry.

##### [4(HOME)] key

Pressing this key recalls a favorite "Home" frequency memory.

This key generates the DTMF "4" tone during transmission, and frequency entry digit "4" during Direct Keypad Frequency Entry.

##### [5(←MODE)] key

Pressing this key changes the operating mode:

**USB⇒LSB⇒PKT⇒DIG⇒FM⇒AM⇒CWR⇒CW⇒USB**

This key generates the DTMF "5" tone during transmission, and frequency entry digit "5" during Direct Keypad Frequency Entry.

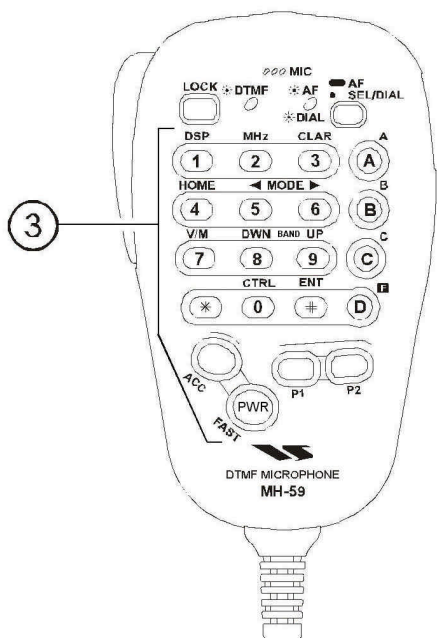
##### [6(MODE⇒)] key

Pressing this key changes the operating mode:

**USB⇒CW⇒CWR⇒AM⇒FM⇒DIG⇒PKT⇒LSB⇒USB**

This key generates the DTMF "6" tone during transmission, and frequency entry digit "6" during Direct Keypad Frequency Entry.

MH-59A8J Remote Microphone (continued)



**(3) Keypad (continued)**

**[7(V/M)] key**

Pressing this key switches frequency control between the VFO and Memory Systems.

This key generates the DTMF "7" tone during transmission, and frequency entry digit "7" during Direct Keypad Frequency Entry.

**[8(DWN BAND)] key**

Pressing this key causes the frequency to be moved down by one frequency band:

**1.8MHz⇒430MHz⇒144MHz⇒108MHz⇒88MHz⇒  
50MHz⇒28MHz⇒24MHz⇒21MHz⇒18MHz⇒15MHz⇒  
14MHz⇒10MHz⇒7MHz⇒5MHz⇒3.5MHz⇒1.8MHz**

This key generates the DTMF "8" tone during transmission, and frequency entry digit "8" during Direct Keypad Frequency Entry.

**[9(BAND UP)] key**

Pressing this key causes the frequency to be moved up by one frequency band:

**1.8MHz⇒3.5MHz⇒5MHz⇒7MHz⇒10MHz⇒14MHz⇒  
15MHz⇒18MHz⇒21MHz⇒24MHz⇒28MHz⇒50MHz⇒  
88MHz⇒108MHz⇒144MHz⇒430MHz⇒1.8MHz**

This key generates the DTMF "9" tone during transmission, and frequency entry digit "9" during Direct Keypad Frequency Entry.

**[\*] key**

This key generates the DTMF "F(\*)" tone during transmission.

**[O(CTRL)] key**

This key generates the DTMF "0" tone during transmission, and frequency entry digit "0" during Direct Keypad Frequency Entry.

**[ENT(#)] key**

Press this key for Direct Keypad Frequency Entry:

To enter 14.25000 MHz, press:

**[ENT]⇒[1] ⇒ [4] ⇒ [D(point)] ⇒ [2] ⇒ [5] ⇒ [ENT]**

To enter 0.95000 MHz, press:

**[ENT] ⇒ [D(point)] ⇒ [9] ⇒ [5] ⇒ [ENT]**

You may recall a memory channel, as well;

To recall memory channel 001, press:

**[ENT] ⇒ [1] ⇒ [\*]**

To recall memory channel 125, press:

**[ENT] ⇒ [1] ⇒ [2] ⇒ [5] ⇒ [\*]**

This key generates the DTMF "E (#)" tone during transmission.

**[A] key**

This key emulates the function of the FT-897's front panel [A] key.

This key generates the DTMF "A" tone during transmission.

**[B] key**

This key emulates the function of the FT-897's front panel [B] key.

This key generates the DTMF "B" tone during transmission.

**[C] key**

This key emulates the function of the FT-897's front panel [C] key.

This key generates the DTMF "C" tone during transmission.

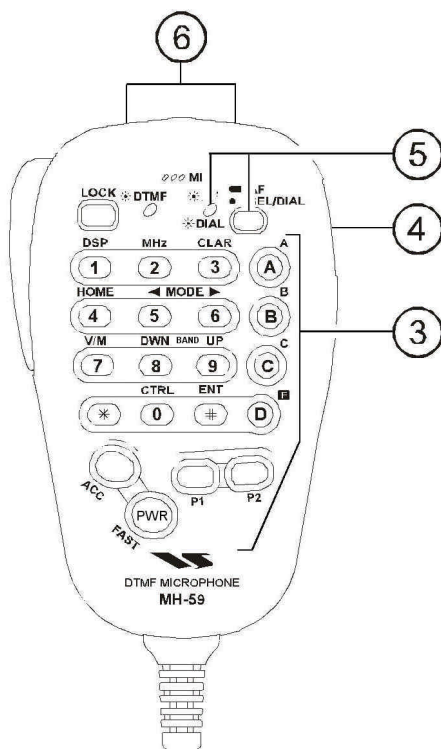
**[D(F)] key**

Press this key momentarily to enable the changing of the function of the Multi Function keys ([A], [B], and [C]) by the SELECT knob.

Press and hold in this key for one second to activate the "Menu" mode.

This key generates the DTMF "D" tone during transmission, and frequency entry digit "point" during Direct Keypad Frequency Entry.

MH-59A8J Remote Microphone (continued)



**(3) Keypad (continued)**

**[ACC] key**

Press this key to disable the Noise Squelch.

You may program the configuration of this key, to enable use of a different function, via Menu Mode No-068 [PG ACC].

**[PWR(FAST)] key**

Press and hold in this key for one second to turn the transceiver on or off.

While the transceiver is turned on, pressing this key momentarily will engage the "Fast Tuning" mode, to allow more rapid frequency navigation (a small "running man" icon will be observed in the bottom right-hand corner of the LCD).

**[P1] key (Quick Split)**

Press this key to change the Sub VFO frequency (Main VFO frequency + 5 kHz) and automatically engage the "Split" feature.

You may program the configuration of this key, to enable use of a different function, via Menu Mode No-069 [PG P1].

**[P2] key**

Press this key to engage the 1750-Hz burst tone for access of a repeater requiring tone burst (typically in Europe).

You may program the configuration of this key, to enable use of a different function, via Menu Mode No-070 [PG P2].

**(4) SEL knob**

This rotary switch is used for VFO frequency tuning, memory channel selection, and receiver audio volume level adjustment.

**(5) SEL/DIAL key and Indicator**

The SEL key switches the synthesizer steps of the SEL knob between the fine tuning (same as DIAL knob step) and coarse tuning (same as SEL knob step) modes. When the "fine tuning" mode is selected, the SEL LED glows orange.

Press and hold in this key for one second to enable the "VOL" feature, which allows adjustment of the receiver audio volume level (by adjusting the SEL knob). When the "VOL" feature is engaged, the SEL LED glows green.

To return to the synthesizer step-selection mode, just press the SEL key.

**(6) [UP]/[DWN] keys**

Press (or hold in) either of these keys to tune (or scan up or down) the operating frequency or through the memory channels. In many ways, these keys emulate the function of the FT-897's DIAL knob.