

bhi



Radio Mate



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Radio Mate

Compact Keypad for
Yaesu FT-817, FT-857 and FT-897

Operating Instructions



1090-107D
Issue H

Important Information

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	Bank 1		Bank 2	
Memory	Frequency (MHz)	Modulation	Frequency (MHz)	Modulation
1				
2				
3				
4				
5				
6				
7				
8				
9				
0				

	Bank 1		Bank 2	
Memory	Frequency (MHz)	Modulation	Frequency (MHz)	Modulation
1				
2				
3				
4				
5				
6				
7				
8				
9				
0				

Appendix A - Blank frequency tables

Memory	Bank 1		Bank 2	
	Frequency (MHz)	Modulation	Frequency (MHz)	Modulation
1				
2				
3				
4				
5				
6				
7				
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0				

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1				
2				
3				
4				
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7				
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0				

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1. Set up.

Connecting and setting up the Radio Mate. (See your radio user manual for more information on setting up the CAT interface).

- Turn radio OFF.
- Turn the Radio Mate OFF using the switch located on right-hand side of case.
- Insert DIN plug on Radio Mate cable into ACC jack on FT-817 or the CAT/LINEAR jack on the FT-857/897 (Be very careful not to bend the pins).
- Turn the radio ON.

Radio-specific settings.

FT-817

Press and hold function button (F) for one second (two beeps) to enter the Menu and then set Menu 14 [CAT Rate] to 9600 baud.

Press and hold function button (F) for one second to store this setting.

FT-857 and FT-897

Press and hold function button (F) for one second (two beeps) to enter Menu and then set Menu 020 to CAT, then set 019 [CAT Rate] to 9600 baud.

Press and hold function button (F) for one second to store this setting.

Turn ON the Radio Mate.

The LED on the Radio Mate will glow RED and a beep should be heard approximately 3 seconds after power up.

The LED glowing RED indicates the Radio Mate is in Memory Function mode. (See Section 2.)

NCH Noise Cancelling Headphones



These headphones feed an inverted copy of the ambient noise to cancel it out.

The headphones effectively remove noise such as blower noise, ambient noise, jet engine noise or music from another room.

The headphones are supplied with an aircraft adapter, so you can now listen to the film, or CD player without all the jet engine noise. Also supplied with carry bag.



BBRP Banner Badge



Get the message across

Easy to program using push buttons on back: no cords, no wires, no software needed. Enter your message and watch it scroll across.

BBRP (Includes 2 CR2032 coin cells)

BBAT replacement CR2032 coin cell



Applications

- ID badge
- Club badge
- Restaurants
- Receptions
- Gifts
- Stag and Hen nights
- DJs
- etc...

What will yours say?

1042 Switch Box



Allows connection of up to 6 pieces of equipment to one bhi noise elimination speaker or any other extension speaker.
(Includes 2 free ALD001 3.5mm audio leads)

Audio Adapters and Accessories.

Power adapters:

1030-UKPA 12V DC UK power adapter

1030-EUPA 12 VDC European adapter

1030-VEPL Fused vehicle power adapter

Audio leads:

ALD-001 1.2m 3.5mm - 3.5mm mono lead

ALD-002 2.5m 3.5mm - 3.5mm mono lead

ALD-003 phono -phono plug

ALD-004 3.5mm stereo plug - phono plug

ALD-005 3.5mm mono plug - phono plug

Audio adapters:

ADP-P001 6.35mm plug - 3.5mm mono socket

ADP-P002 6.35mm plug - 3.5mm mono socket

ADP-P003 3.5mm stereo plug - 3.5mm mono socket

ADP-P004 Phono plug - 3.5mm mono socket

ADP-P005 2.5mm mono plug - 3.5mm mono socket

ADP-P006 2.5mm stereo plug - 3.5mm mono socket

ADP-P007 6.35mm stereo plug - 3.5mm stereo socket

ADP-P008 3.5mm stereo - aircraft adapter

ADP-S001 3.5mm mono socket - 3.5mm mono plug

ADP-S002 6.35mm socket - 3.5mm mono plug

ADP-S003 6.35mm stereo socket - 3.5mm mono plug

ADP-S004 2.5mm stereo socket - 3.5mm mono plug

ADP-S005 2.5mm mono socket - 3.5mm mono plug

Note:

To aid partially sighted and blind users, a small self adhesive rubber bump is included and can be easily fixed between keys 5,6,8,9.

The CAT port remains powered on the FT-817, even when the radio is switched off. It is advisable to switch the keypad off when the radio isn't in use.

2. Memory Function

Memory Bank Selection:

Twenty (20) memory locations are available to use as two Memory Banks, each containing ten (10) memories numbered 0 through 9. When the **Mem** key is pressed the LED illuminates RED. To select the First Bank, simply press the **Mem** key and release it when you hear a single beep. To select the Second Bank, simply press the **Mem** key and release it when you hear two beeps. The Memory Bank selected will remain as the selected Bank until you specifically change it; however, it defaults to Memory Bank 1 on Power Up.

Storing a Memory:

Once you have selected a memory location into which you to store the frequency and mode, simply press the selected number key (**0-9**) until a single beep is heard and then immediately release your finger from the key. The LED will also flash once to indicate that the current frequency and mode has been stored in the selected memory. Be sure you have the desired Memory Bank selected.

Recalling a Memory:

Simply press the selected number key (**0-9**) and then quickly release your finger from the key to recall the stored frequency and mode.

The Radio Mate memories can be reset to the generic frequencies in the table by switching off the Radio Mate power, then switching it back on again, holding the “0” key down whilst the LED is green, until a beep is heard.

Memory	Bank 1		Bank 2	
	Frequency (MHz)	Modulation	Frequency (MHz)	Modulation
1	1.850	CW	144.030	CW
2	3.530	CW	144.300	CW
3	3.600	LSB	144.750	FM
4	7.030	CW	145.450	FM
5	7.080	LSB	145.475	FM
6	14.030	CW	145.500	FM
7	14.200	USB	145.525	FM
8	18.040	USB	145.550	FM
9	21.010	USB	145.575	FM
0	28.500	USB	145.750	FM

There are blank forms in Appendix A to record your own frequencies and modes.

3. Modulation.

In this mode the keypad will select an operating mode at the single press of a button.

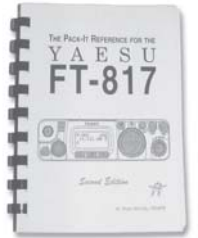
Press the **Mod** for **Modulation** mode. The LED will illuminate **YELLOW**.

Pressing the appropriate button i.e. USB, AM, FM etc. will change the radio over to that mode.

Press: **1** for **USB**
4 for **LSB**
7 for **AM**
2 for **FM**
5&0 for **FMN**
(not on FT817 it will lock up - battery removal required)
8 for **PKT**
3 for **CW**
6 for **CWR**
9 for **DIG**

Packit Reference Book for the FT817

Wherever you are you can have at your finger tips all the information you need to use the many FT-817 features.



Other reference books.

Yellow book for VX7R
Yellow book for VX6R
Yellow book for VX5R
Yellow book for VX2R

FT817 cables.

6 pin Mini DIN - Data cable
8 pin Mini DIN - Accessory cable
Cigar lighter power lead
Fused power lead

Order code: 6pin
Order code: 8pin
Order code: FT817VEPL
Order code: FT817FPL



NEDSP1061- KBD

Fit the bhi DSP noise cancellation in your Transceiver. Features 4 filter levels with visual and audio indication
Single button operation labels and mounting hardware

Generic module to fit most transceivers/receivers. Specific instructions cover installation into the following:

- Yaesu FT817, FRG-100
- Icom 706 MKII G
- Icom 736/738
- Kenwood TS50, TS440
- Alinco DX-77
- Realistic DX-934



NEDSP1062- KBD

Revive that old rig or extension speaker with this easy to fit DSP noise cancellation module. The module comes pre-wired with all the connections needed for operation, and can be easily retrofitted into the loudspeaker path of many transceivers, receivers & extension speakers. It has simple user controls via two pushbuttons. Features: 4 or 8 filter levels with LED & audio indication * Power on/off with audio bypass * 2 Watts output * Power connector * Labels * Fused DC power lead & full fitting instructions supplied, including guides for the Kenwood SP31 & Yaesu SP8 extension speakers

4. Direct frequency input.

The operating frequency can be entered directly using the numeric keypad. To enter the direct frequency input mode - press **Dir**, the LED will illuminate GREEN.

To illustrate the use of the mode is illustrated by the examples below.

For example with the radio reading 145.500
to change to 145.400 press .4 **Ent** new reading is 145.400

Alternatively entering .400 would also give same result.

Note:

When entering 3 digits after the decimal point there is no need to press the enter button on pressing the third digit a double beep is heard and radio is automatically updated.

To change to 144.300
press 4.3 **Ent** new reading 144.300

(entering 4.300 would also give same result)

For example with radio reading 144.300
press 5.5 **Ent** and you are back to 145.500

entering .525 new reading 145.525

To go to HF

press 007 **Ent** new reading 7.525
press .010 new reading 7.010
entering 14 **Ent** new reading 14.010

To change from 14.010 to 3.500 you need to remove the 10 from the 14 this is done by using a leading zero.

enter 03.500 new reading 3.500

5. VFO operation.

- VFO operation can be set as follows:
- To swap VFOs A & B, A/B press the “.” (decimal) key
- VFO A=B long press of the “.”(decimal) key
- Split VFO mode by pressing the **CLR** key.

6. Tune function.

Pressing and holding the **Ent** key puts the Radio Mate into the tune mode.

When in this mode, all the current modes of operation are read from the radio and stored in the keypad. The radio is then put into transmit mode for 10 seconds to tune an ATU. After the tune is complete the radio is returned to its previous settings. If the tuning operation completes after a few seconds, press the **Ent** key again and the tune function will be stopped and the radio returned to its previous settings.

7. Other bhi Products.

bhi design and manufacture a range of Digital Signal Processing (DSP) products to remove unwanted noise and interference leaving only the speech. The amount of noise removed is dependant on the filter level setting (65% - 98%). The resulting speech signal remains virtually unaltered even when high levels of noise are present. If there is no noise present at all, the speech passes through unaltered. The system is fully adaptive and adjusts itself continuously to changing environmental conditions.

There are noise elimination speakers that fit into base station or mobile environment, in-line modules that can be integrated into the communications system, or PCB modules that can be retrofitted internally into the equipment. The products work just as well in the transmit or receive path.

NES10-2 MKII Noise Eliminating speaker.

DSP noise cancellation built into a compact speaker unit. The unit provides an easy to install solution to noise reduction and easily connects to the extension speaker socket or headphone socket of your equipment. Supplied with a fused power lead.



NEIM1031 In-line module.

The **NEIM1031** provides a flexible solution to noise reduction and easily fits between your equipment and speaker.

The unit is also equipped with line level inputs and outputs, and a 3.5mm mono headphone socket. Supplied with a fused power and audio lead.

ANEM Noise Away.

New ANEM “Noise Away”
DSP Noise Cancelling as Easy
as 1-2-3

- 1 - Plug in Audio
- 2 - Connect Loudspeaker
- 3 - Connect Power



Easy to use, simply fits between your equipment and extension speaker. Audio bypasses module when the power is switched or removed. All the DSP functions are controlled by a single button. The unit is compact and can be mounted out of the way.

Supplied with hook and loop fastener, fused power cable and audio lead.