

# Yaesu FT-8800R 'Quickstart' Manual

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de VE7DSN

*Of course, at the start of an incident, we will use conventional handwritten messaging.*

*For this, we use the FT-8800 dual band VHF/UHF transceiver*

*This session outlines how to switch on, tune, operate the FT-8800 as an “voice” based rig. Digital operation will be shown elsewhere.*

# Power up the station

- Remove front and back covers, set aside
- Verify VHF transceiver is connected to a VHF antenna
- Verify AC power plug is plugged into a power source



- Turn on 12vdc power supply
- Turn on power master switch (back of unit)

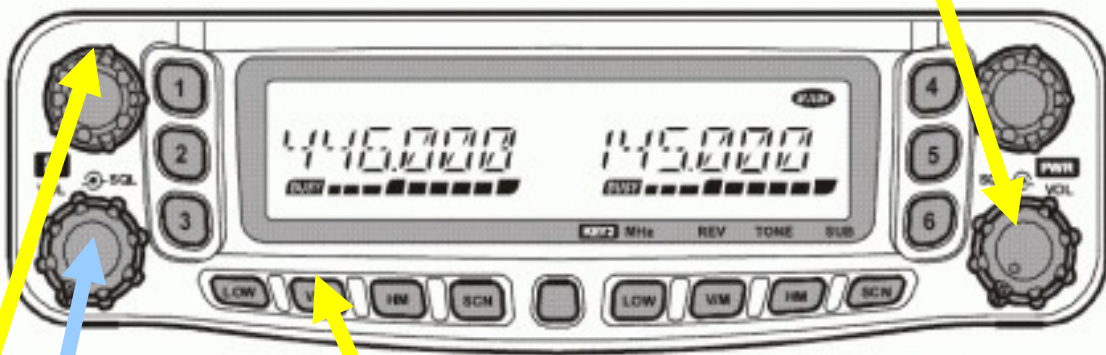
# Turn on the Transceiver

- Turn on, tune the VHF Transceiver (*details next slide*)



# Starting the Transceiver

-Press and hold 'Pwr" button (2 sec)



Press 'V/M button to select 'memory Channels

-Press left dial knob to select left bank

- Rotate dial knob to select channel ( see next slide)

- Adjust volume and squelch to taste.

*Assumes channel is pre programmed in memory. If not, see reference*

# Six pre-programmed memory Channels

The FT8800 uses about 50 pre-programmed memory channels. Six well used ones are:

Ch	Freq	Call	Remarks
<b>07</b>	<b>147.28+</b>	<b>VE7PQA</b>	<b>Voice Repeater Primary Parksville IRLP</b>
<b>08</b>	<b>145.37-</b>	<b>VE7RPQ</b>	<b>Voice Repeater Secondary Parksville</b>
<b>10</b>	<b>147.32+</b>	<b>VE7SPR</b>	<b>Voice Repeater Saltspring Isl EMBC access</b>
<b>11</b>	<b>147.24+</b>	<b>VE7KU</b>	<b>Voice Repeater Mt Arrowsmith – solar power</b>
<b>13</b>	<b>147.43 -</b>	<b>VE7DJA</b>	<b>Voice Repeater Nanaimo Isl Trunk system</b>
<b>04</b>	<b>144.49S</b>	<b>VA7MIR-10</b>	<b>Packet Radio digital messaging</b>

*( see 'FT8800- comprehensive memory channel list ' for the full list )*

# Voice procedure hints

Speak slowly and clearly

Pause every 3 to 5 words when messaging

If assigned, identify with your 'tactical' callsign, otherwise the stations formal callsign

'Check In' with net control every half hour

Maintain the logbook and copies of formal messages

# Summary

This slide set reviewed the key features you need know to use the FT-8800R transceiver in 'voice' mode.

More detailed instructions can be found in the printed manual which should be located in the lower tray of this Grab and Go box.

Alternatively, close this slide show and return to the main page and select the virtual manual.

Technicians – Please move on to the next slide for details of programming the FT-8800



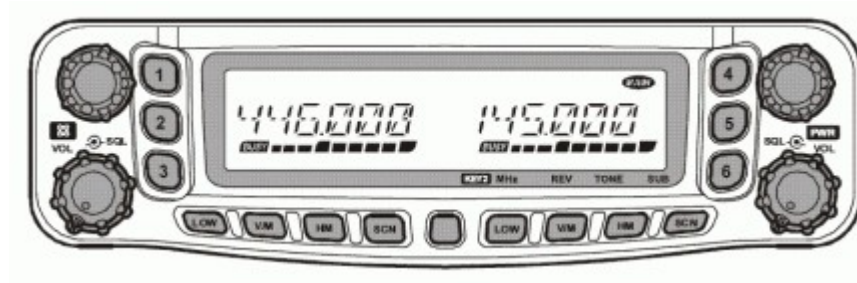
# FT 8800 - Checklist setup for Technicians



As technical staff one needs to know more than just how to turn the FT-8800 on and select a frequency from memory.

The following slides provides a checklist 'step by step procedures for setting additional functions of the radio, such as setting up to use a new repeater or, possibly, restoring a radio to normal operation after an individual, in desperation, has resorted to random pressing of buttons and rendered the radio unusable.

# FT 8800 - Checklist setup for Technicians



The following skills are needed:

- Within a band set up:
  - a specific frequency
    - repeater offset (*or simplex*)
    - tone
- Assign the frequency to a memory channel
- 'Fine Tune' by adjusting some 'Menu' items for optimal operation

# Active Band Selection



The FT-8800 features a 'left' side and 'right' side transceiver. Only one can transmit at a time so we must select which side we want to use. By local convention we choose to use 2m on the left side, 430 on the right

The active band is indicated by the 'MAIN' symbol

To change the active band:

[ **Quick Press** ] the **DIAL** knob for the side you wish to use

Note the 'MAIN' symbol moves to the side you wish to be active

# Band Selection *p 21*

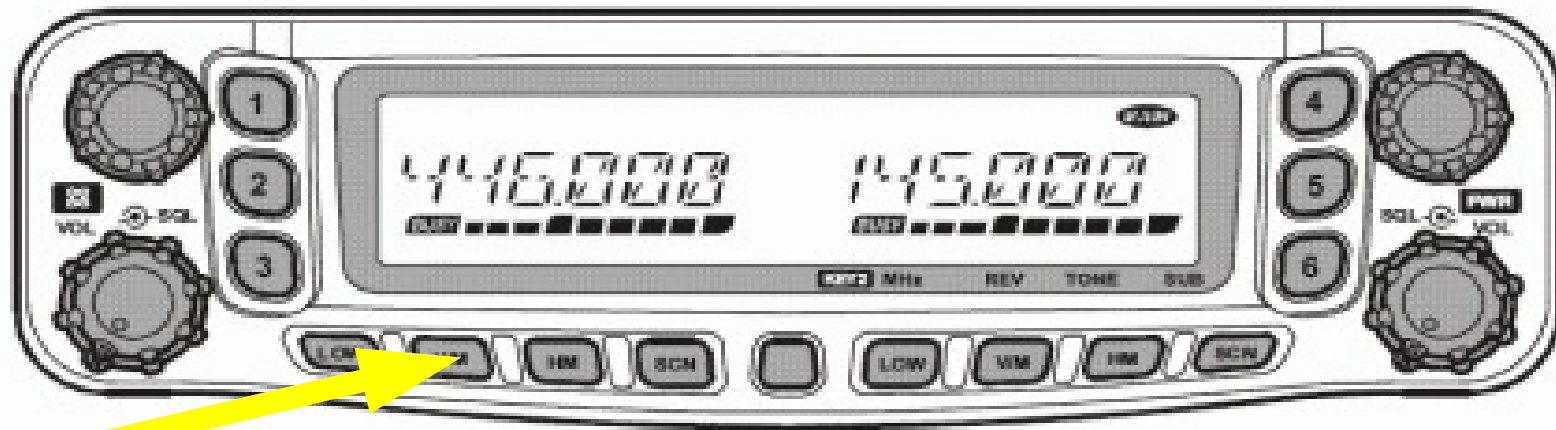


The FT8800 covers 5 bands (**144**, 250, 360, **430**, 850 Mhz)

[ **Quick Press** ] **SET** button to enter 'set mode'

[ **Press & Hold** ] DIAL knob – rotate to desired band

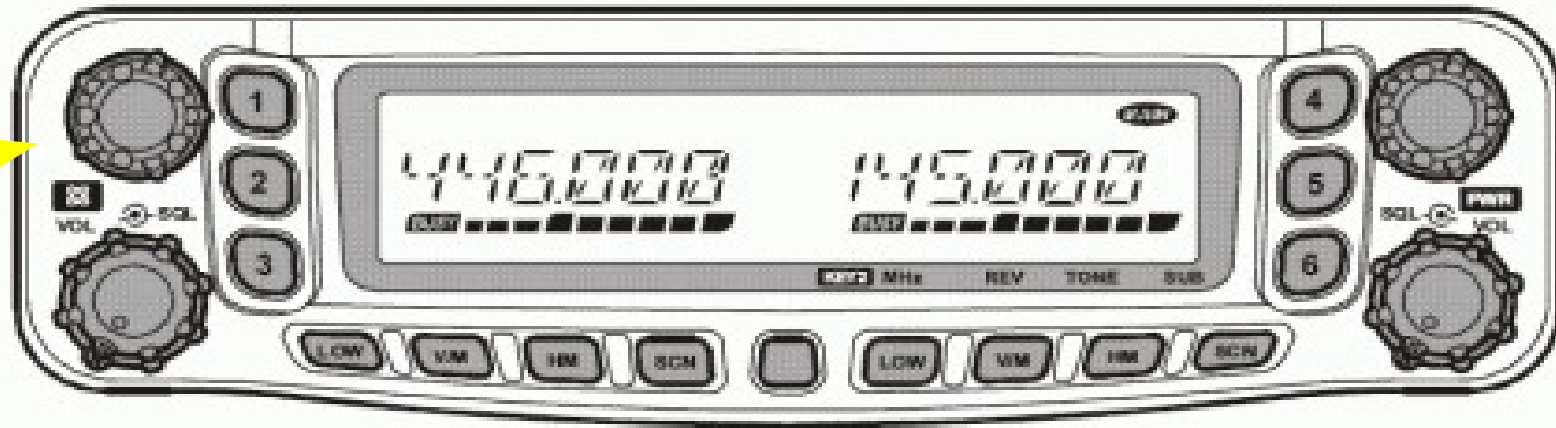
# Memory or VFO Selection



The FT8800 can transmit directly from the VFO settings or from frequencies stored in any of 6 memory banks.

[ **Quick Press** ] **V/M** button for left or right side radio to switch from VFO to Memory (*Memory mode shows channel numbers*)

# Frequency Set *p 22*



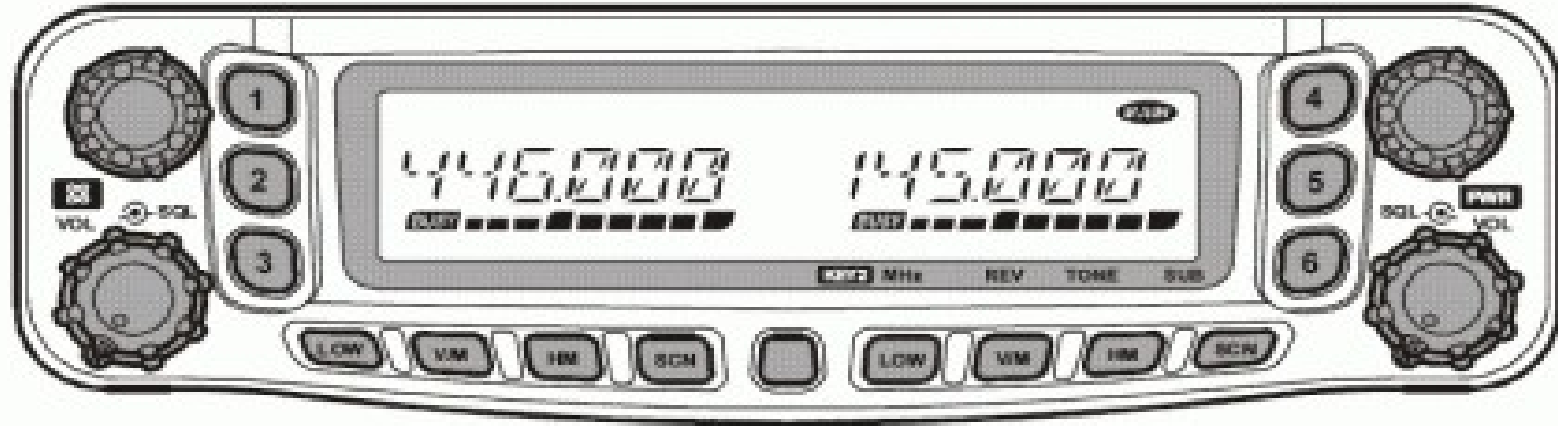
The FT8800 can be tuned by rotating the **DIAL** knob or by direct microphone keypad entry. *For keypad entry see p22 of user manual.*

Rotate **DIAL** knob until desired receive frequency is displayed

*Note:*

*A [quick press] dial knob toggles between Mhz and 25 Khz steps*

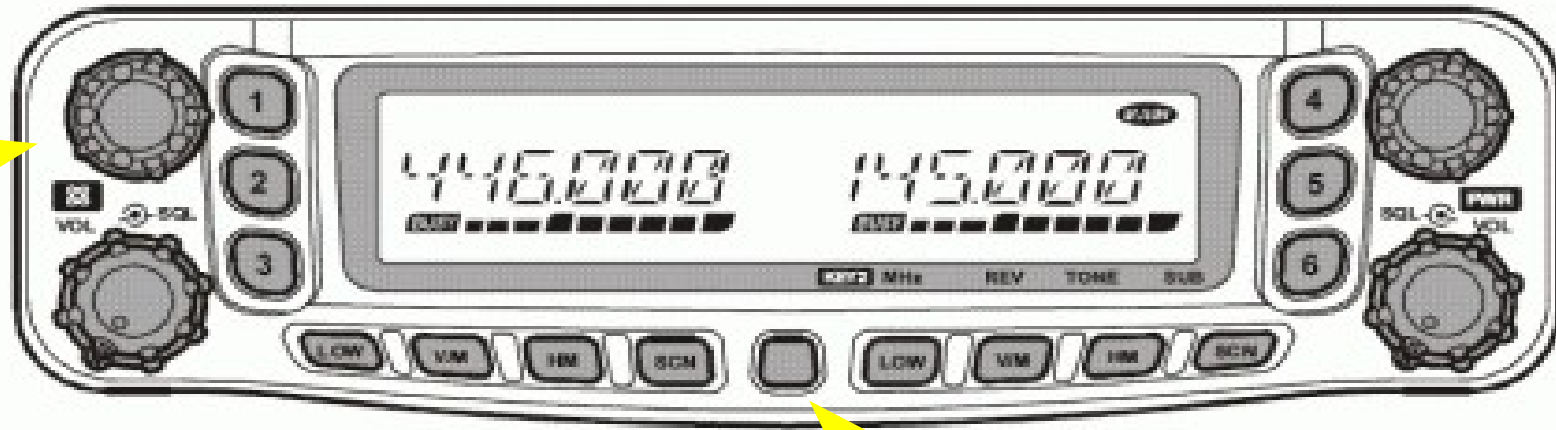
# Repeater Shift *p 27*



The FT8800 is normally set to 'ARS' or Automatic Repeater Shift. When you dial in a repeater output frequency you will see the shift indicated in the top line of the display.

If you wish to change the 'shift' or change to simplex please see Menu #33 (RPT.MOD) elsewhere in this slide set.

# Tone Set *p 29 1/2*



Repeaters usually require that a sub audible tone be transmitted to access the repeater. The next 2 slides outline the procedure.

[ **Quick Press** ] **SET** button to enter 'set' mode

Rotate DIAL knob to select Menu #41 (TONE M)

[ **Quick Press** ] **DIAL** knob – Rotate to display ENC



# Tone Set p 29 2/2



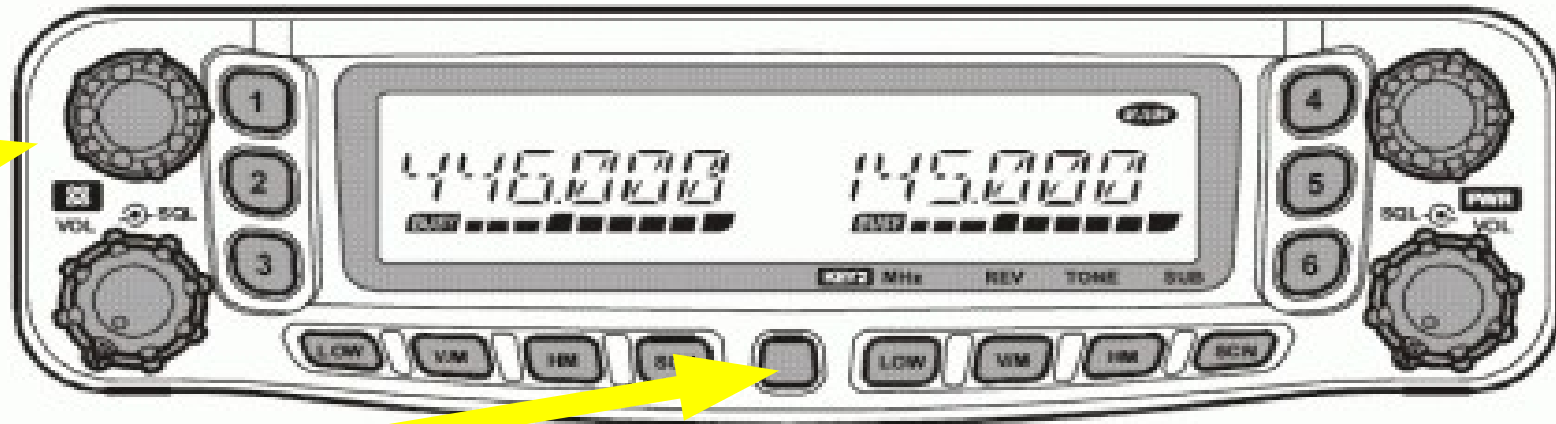
[ Quick Press ] **DIAL** knob – rotate clockwise to select Menu #40 (Tone F)

[ Quick Press ] **DIAL** knob – Rotate to display tone one needs

[ Press & Hold ] **DIAL** knob to save and exit to normal operation

*Next we look at saving this setup to a memory channel*

# Write VFO to Memory *p 34*



Verify that the frequency setup on the VFO functions correctly before you consider committing it to a memory channel.

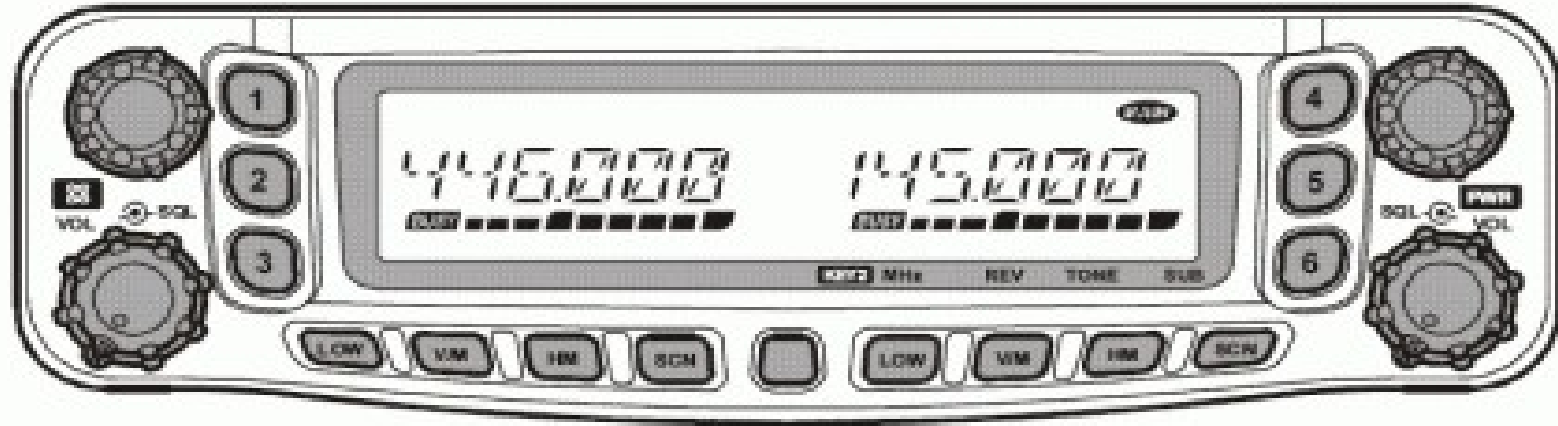
Be aware that you could overwrite an already committed memory channel. It might be a good idea ensure the new channel is placed above the existing active channels. (*see the frequency list, elsewhere in the G&G box*)

[ **Press Hold** ] **SET** button (*1/2 sec*)

Rotate **DIAL** to select desired channel (*within 10 secs*)

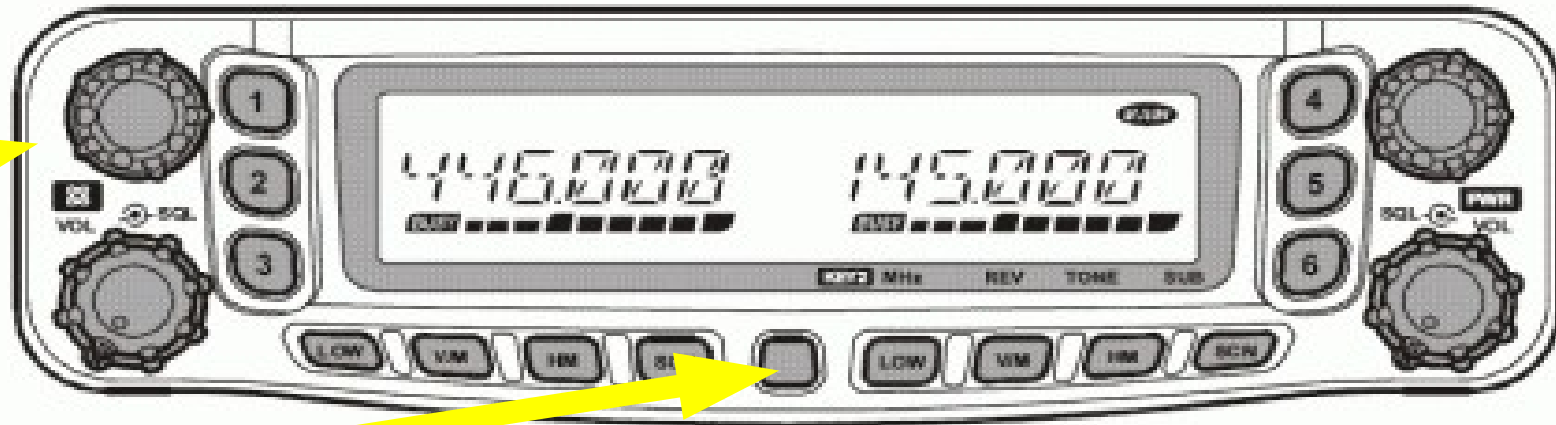
[ **Quick Press** ] **SET** button to save the frequency to chosen channel

# Additional Features



The following slides outline how to use FT-8800 **Menus** to enhance emergency communications. You will need to scroll through the slides to find the one that addresses your issue (s).

# Menu #2 ARS (Automatic Repeater Shift) p 27



Sets a standard offset for a repeater or, some unusual shift ( *600mhz VHF or 5Mhz UHF are standard* )

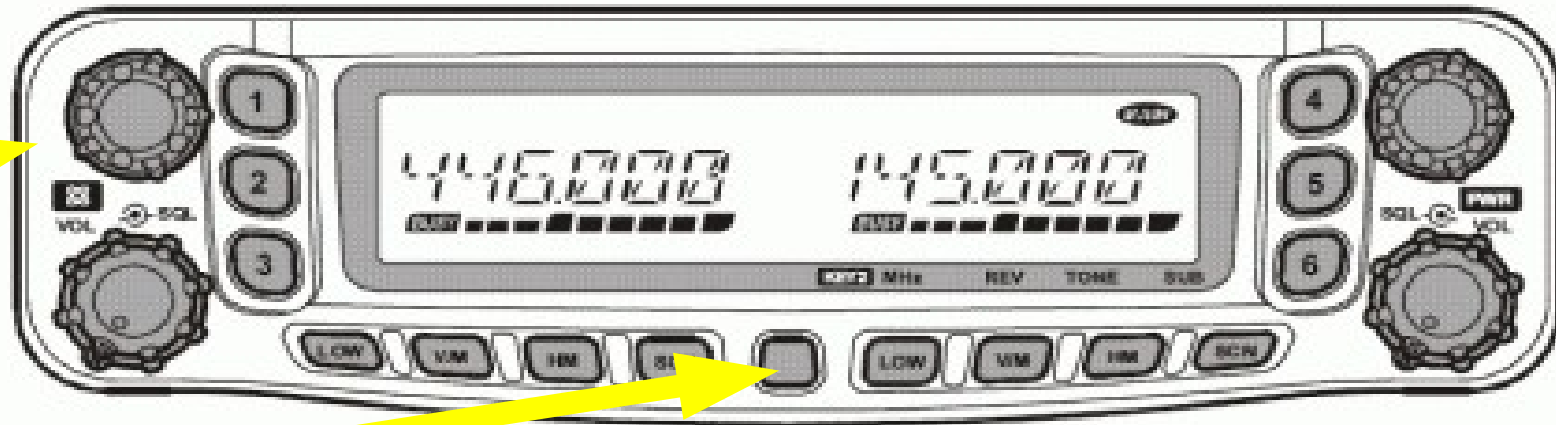
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #2 ARS

[ **Quick Press** ] **DIAL** knob – rotate to select Off or On

[ **Press Hold** ] **DIAL** knob ( *1/2 sec* ) to save setting and exit

# Menu #5 Beep p 24



Sets whether or not the radio 'beeps' when you press a button or key

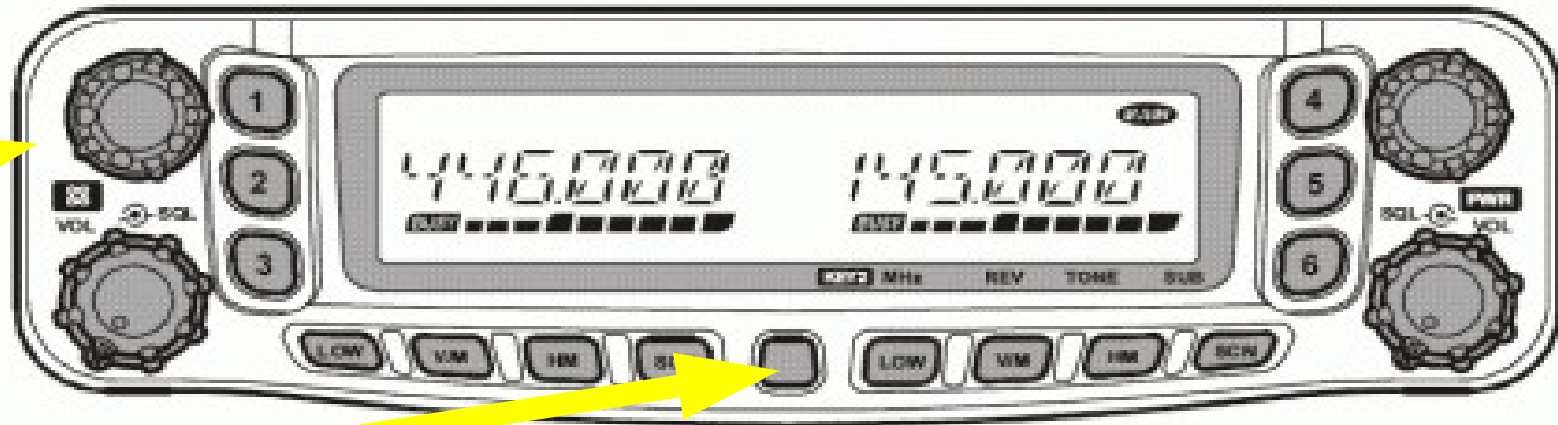
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #5 BEEP

[ **Quick Press** ] **DIAL** knob – rotate to select Off or On

[ **Press Hold** ] **DIAL** knob ( *1/2 sec* ) to save setting and exit

# Menu #9 Dimmer *p 25*



Sets the brightness of the screen background

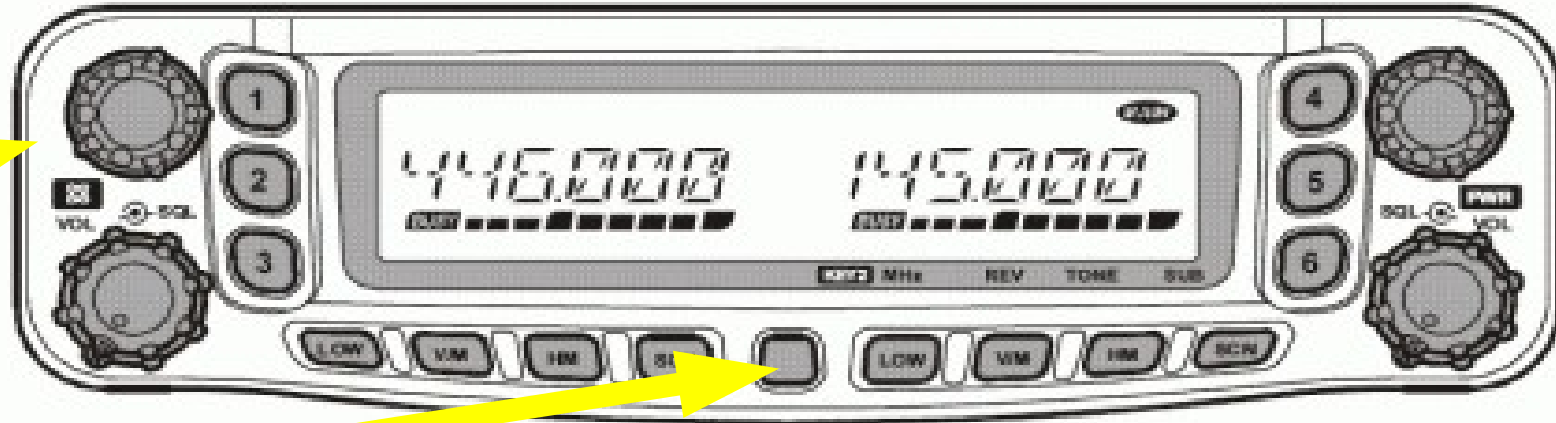
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #9 DIMMER

[ **Quick Press** ] **DIAL** knob – rotate to select one of 4 levels

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit

# Menu #16 Hyper p 63



Enables/Disables Automatic Writing feature to Hyper Memory. (*Best to avoid this one – leave on manual*)

[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #16 Hyper

[ **Quick Press** ] **DIAL** knob – rotate to select Manual or Auto

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit

# Menu #22 Lockt *p 64*



Enables/Disables PTT button locking to prevent unintended transmission

[ **Quick Press** ] **SET** button to enter 'set mode'

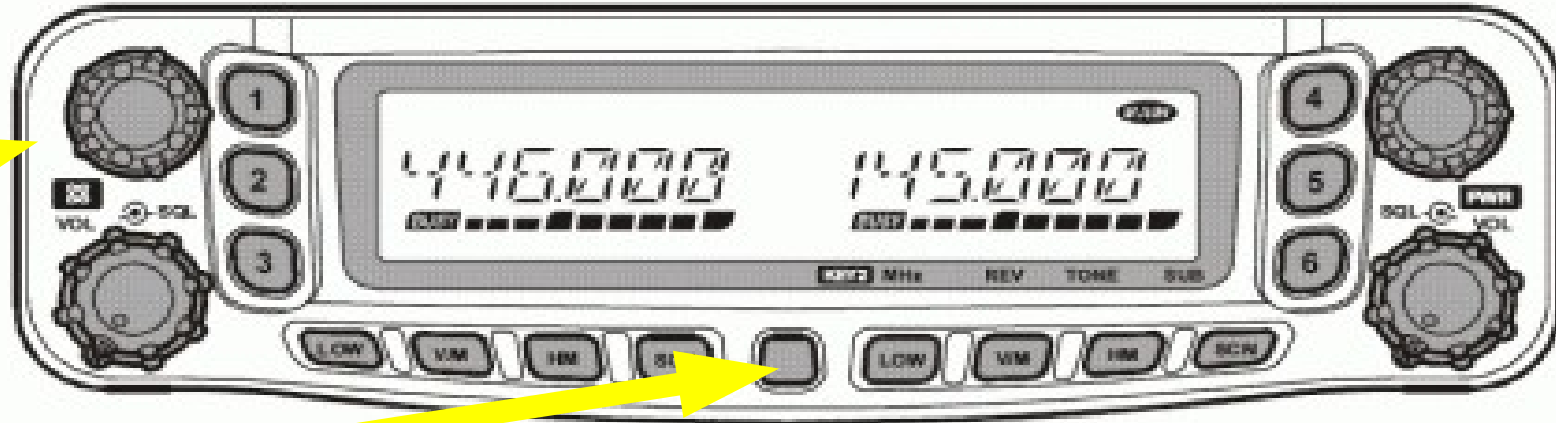
Rotate **DIAL** to select Menu #22 LOCKT

[ **Quick Press** ] **DIAL** knob – rotate to select one of OFF, BANDR, BANDL, BOTH

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit



# Menu #22 Lockt *p 64*



Enables/Disables PTT button locking to prevent unintended transmission

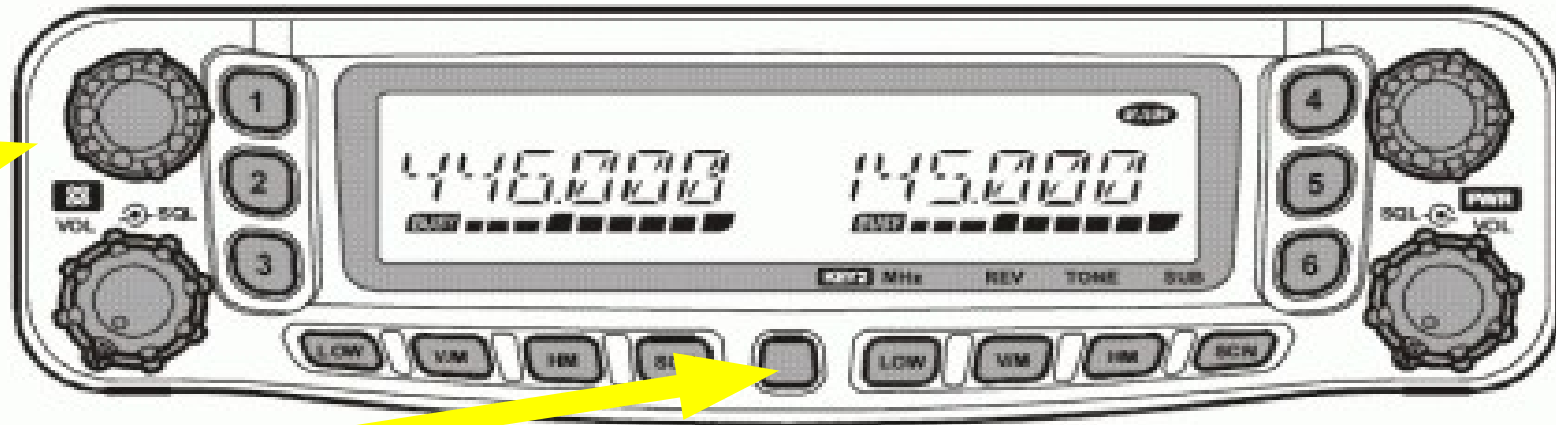
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #22 LOCKT

[ **Quick Press** ] **DIAL** knob – rotate to select one of OFF, BANDR, BANDL, BOTH

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit

# Menu #24 Mute p 64



Enables/Disables the Audio Mute feature by reducing volume of non active sub band

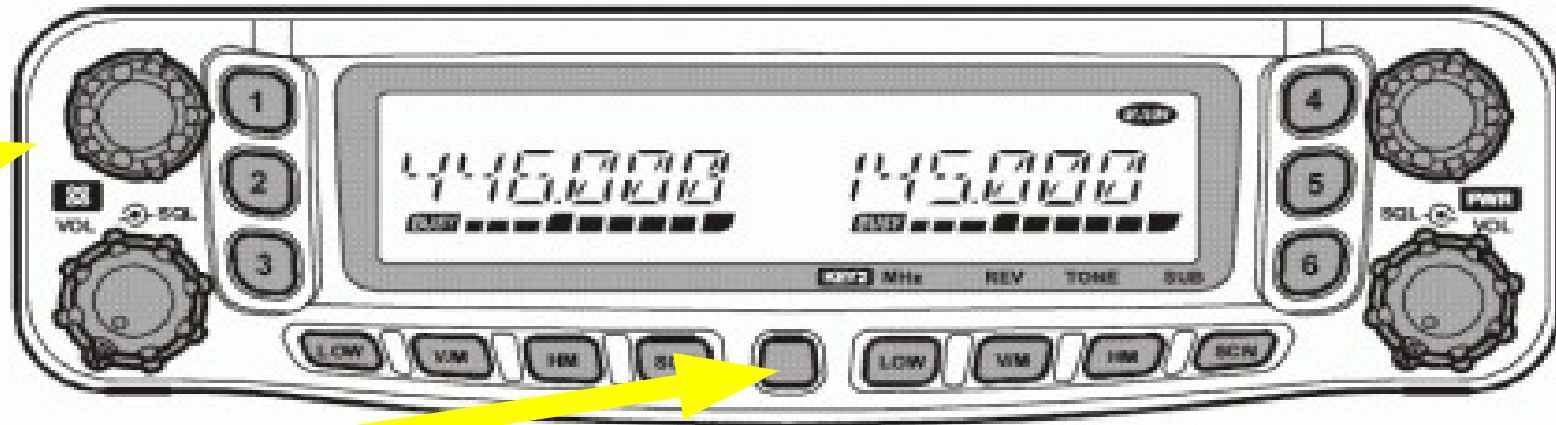
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #24 MUTE

[ **Quick Press** ] **DIAL** knob – rotate to select one of OFF, TX, RX, TX/RX (see manual p. 64 for details)

[ **Press Hold** ] **DIAL** knob ( 1/2 sec ) to save setting and exit

# Menu #32 Rf Sql p 65



Adjusts the RF SQL threshold level

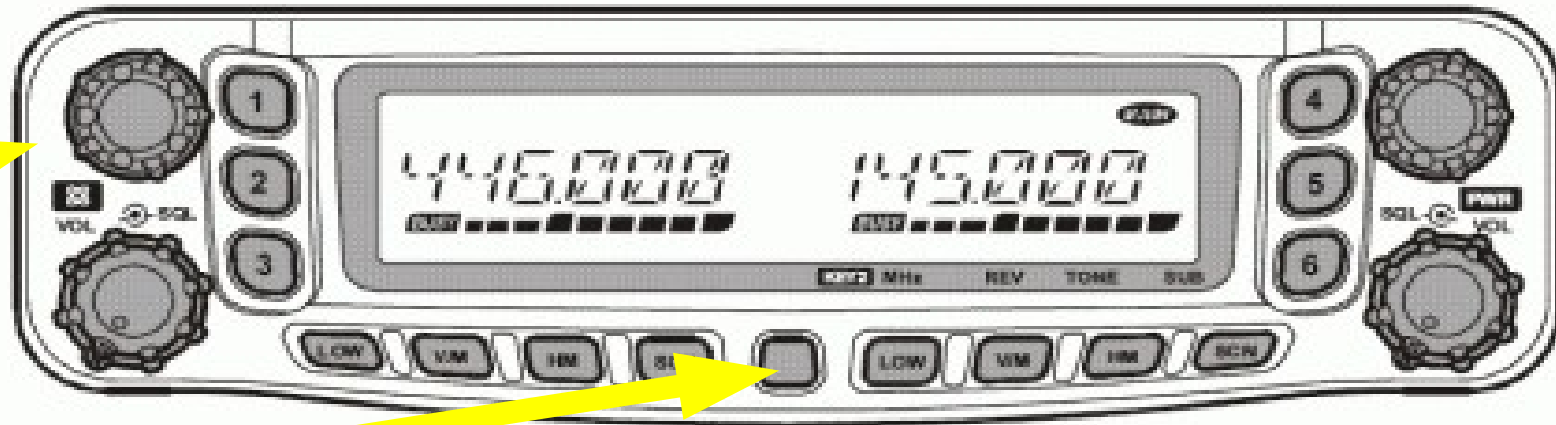
[ Quick Press ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #32 RF SQL

[ Quick Press ] **DIAL** knob – rotate to select one of:  
OFF / S-2 / S-5 / S-9 / S-FULL (see manual p. 64 for details)

[ Press Hold ] **DIAL** knob ( 1/2 sec ) to save setting and exit

# Menu #33 Rpt-Mod p 65



Adjusts the Repeater offset shift direction

[ Quick Press ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #33 - RPT.MOD

[ Quick Press ] **DIAL** knob – rotate to select one of:  
RPT.OFF / RPT. - / RPT + (see manual p. 64 for details)

[ Press Hold ] **DIAL** knob ( 1/2 sec ) to save setting and exit

# Menu #36 Rpt - Shift *p* 66



Adjusts the Repeater offset magnitude from 0.00 to 99.95Mhz in 50 Khz steps ( *600khz is normal* )

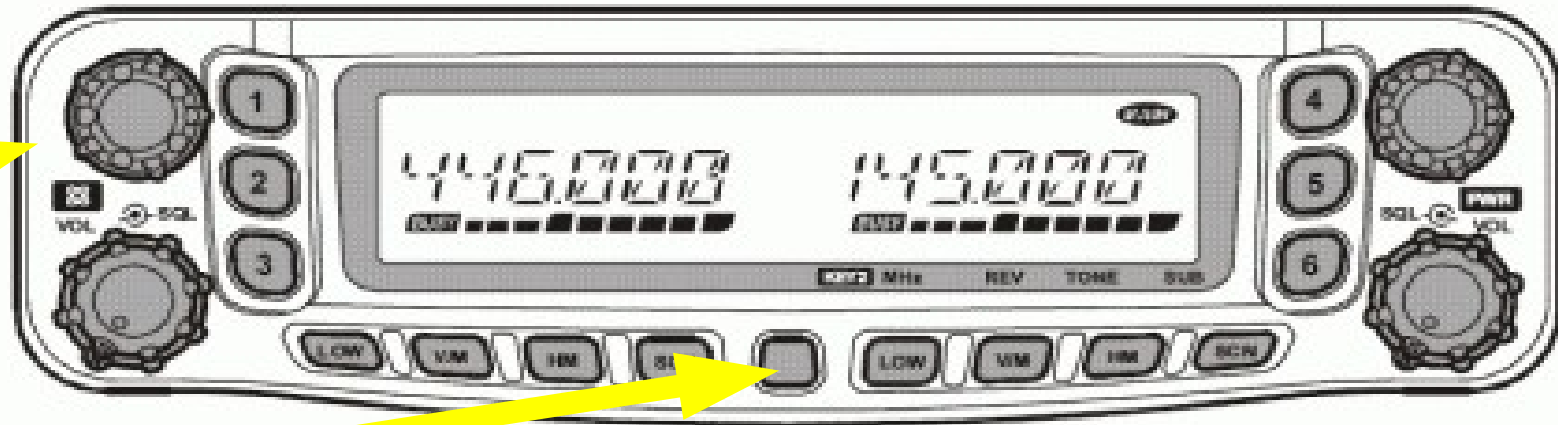
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #36 SHIFT

[ **Quick Press** ] **DIAL** knob – rotate to select shift in 50Khz steps

[ **Press Hold** ] **DIAL** knob ( *1/2 sec* ) to save setting and exit

# Menu #38 - Step *p 66*



Adjusts the Synthesizer steps (*15khz is normal*)

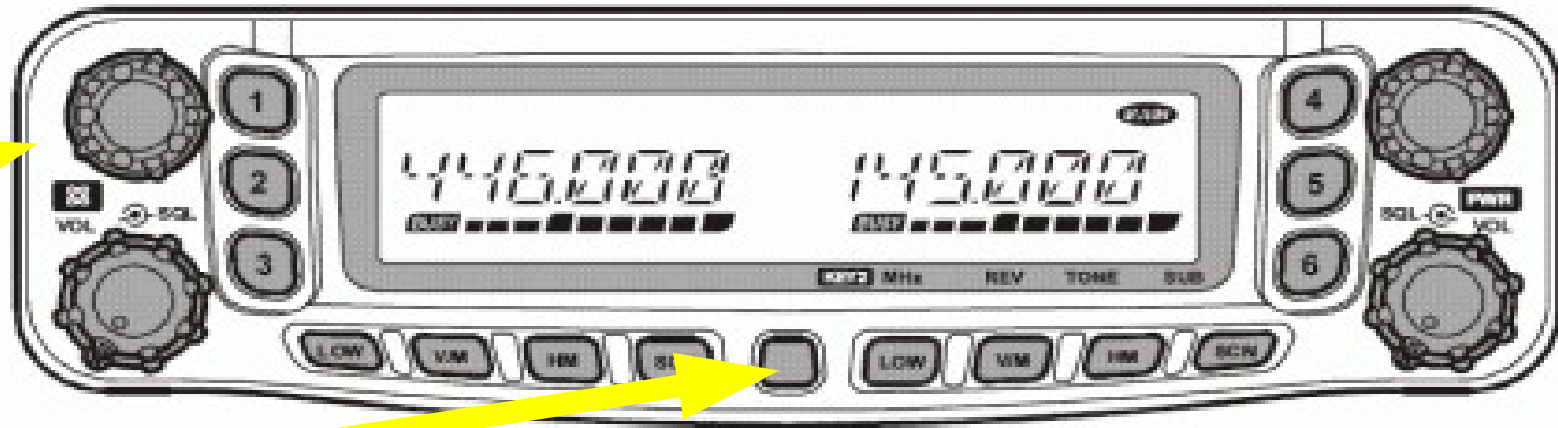
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #38 - STEP

[ **Quick Press** ] **DIAL** knob – rotate to select:  
5.0k / 10.0 k / 12.5 k / 20.0k / 25.0k / 50.0k

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit

# Menu #40 – Tone F p 67



Adjusts the CTCSS Tone Frequency (*District 69 mainly uses 100hz or 141.3hz*)

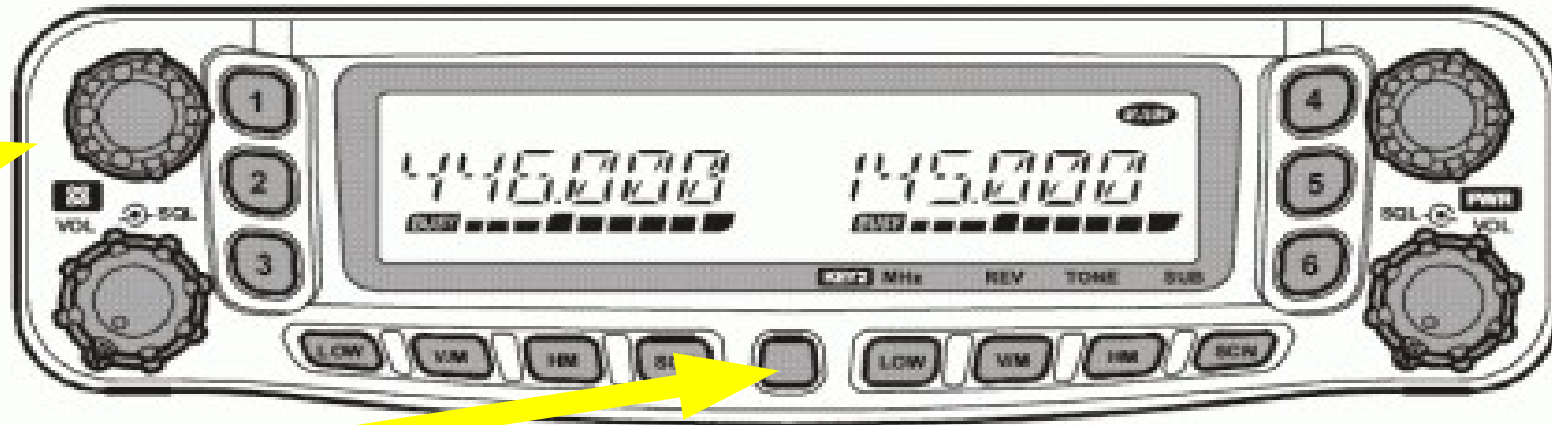
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #40 – TONE F

[ **Quick Press** ] **DIAL** knob – rotate to select: one of 50 available tones

[ **Press Hold** ] **DIAL** knob (*1/2 sec*) to save setting and exit

# Menu #41 – Tone M p 67



Selects the Tone Encoder and /or Decoder mode.

[ Quick Press ] SET button to enter 'set mode'

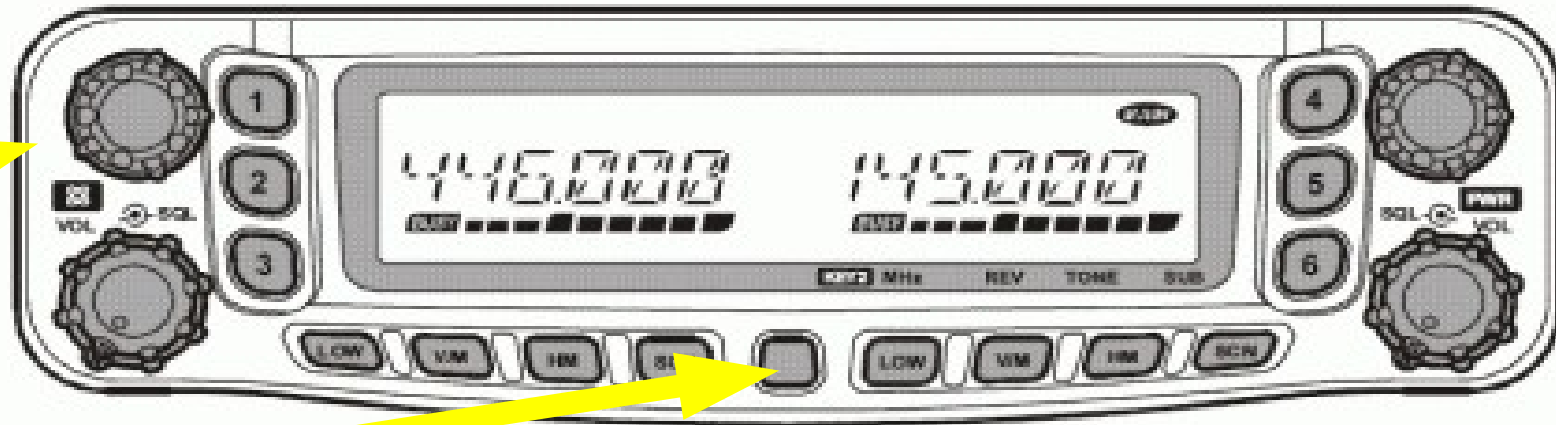
Rotate **DIAL** to select Menu #41 – TONE M

[ Quick Press ] **DIAL** knob – rotate to select: one of:  
OFF / ENC / ENC.DEC / DCS (see manual p 67, for details )

[ Press Hold ] **DIAL** knob ( 1/2 sec ) to save setting and exit



# Menu #42 - Tot p 67



Sets the Time-Out Timer between 1 and 30 minutes .

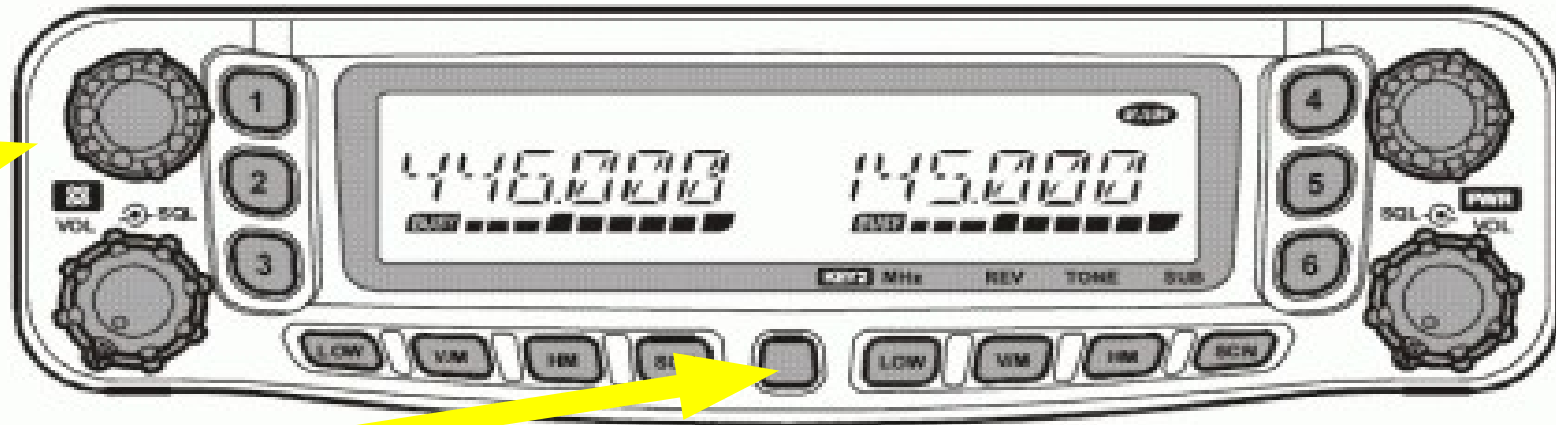
[ **Quick Press** ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #42 – TOT

[ **Quick Press** ] **DIAL** knob – rotate to select: one of:  
OFF / or 1 – 30 minutes

[ **Press Hold** ] **DIAL** knob ( *1/2 sec* ) to save setting and exit

# Menu #44 – Wid.Nar p 68



Adjusts the mic gain ( Deviation ) to suit wide or narrow band operation (*hams usually use WIDE* )

[ Quick Press ] **SET** button to enter 'set mode'

Rotate **DIAL** to select Menu #44 – WID.NAR

[ Quick Press ] **DIAL** knob – rotate to select: one of:

WIDE / NARROW (*can be set independently for each band*)

[ Press Hold ] **DIAL** knob (*1/2 sec*) to save setting and exit

**Questions or Comments ???**

**Tnx fer ur attn de VE7DSN**