# INTRODUCTION

Programming the TAD M8 series of radios is a simple and quick operation. Once in the programming mode, the programming sequence is similar to setting a digital watch and progresses in a methodical manner by using the keys on the front of the radio.

There are two methods of entering the Dealer Programming mode.

**1.Method 1 -   MANUAL-**
- (a)   Remove the top cover.
- (b)   Remove the shield cover (bright tin) from the control board by gently prying it off.
- (c)   You will note there is a screw near the centre of the control board with a small circle or dot on the printed circuit located approximately 3/16" away from it (See Figure 15,Jumper Information, Page 43). Turn the radio on and momentarily short between the screw and the dot with a metal screwdriver  or facsimile.
- (d)   The display will read:
  **The "1" will be flashing.**

```
┌─────────────────────────────┐
│  ⊔ |─ ⊔⊔⊔.⊔⊔⊔                │
│  Ⓓ  PROG            TX        │
└─────────────────────────────┘
```
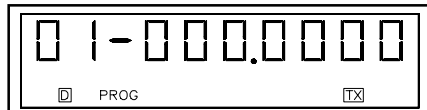
You are now in the Dealer Programming mode and can proceed to the **Dealer Programming Section** to program the radio.(Page 30)

**2.Method 2 - PASS NUMBER-**
- (b)   Remove the shield cover (bright tin) from the control board by gently prying it off.
- (c)   Locate points marked JW203 and install a permanent jumper wire.
- (d)   Turn the radio on. The display will read either:
  (i)"CH ALL CL" , this means the channels are all clear of information.
  (ii)Or it will display an existing channel already programmed in the radio.
- (e)   Press and hold the **U P** key and while still holding the **UP** key, press and hold the **P R G** key (Always press the **U P** key first as the pass number can not be accessed from the User Pro-

gramming Mode). After holding both keys for about 1 to 2 seconds, the display will read:
**The first "0" will be flashing.**

```
┌─────────────────────────────┐
│   ⊔ ⊔ ⊔ ⊔                    │
│  Ⓓ  PROG                     │
└─────────────────────────────┘
```
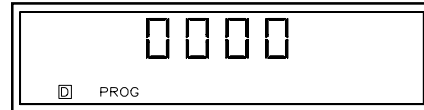
> **NOTE:**   At this point the radio is looking to have a code or pass number of 4 digits programmed into it. Once the pass number has been entered the radio can be programmed without having to open it. The only way to change the pass number is to completely clear all the memory from the radio, in other words , *the pass number is unique and should not be forgotten.*

- (f)   Select a 4 digit pass number.
- (g)   Enter your pass number by pressing the **UP** or **D N** key to arrive at the required number in the flashing digit location and press the **PRI** key to change the digit that is flashing.
- (h)   Having selected and entered your 4 digit pass number,press the **DISP** key.
- (i)   Turn the radio off and replace the cover.
- (j)   From this point on, to enter the dealer programming mode, turn on the radio and follow steps (e) through (h).
- (k)   Once the pass number is displayed and the **DISP** key has been pressed, the display will read:
  **The "1" is flashing**

```
┌─────────────────────────────┐
│  ⊔ |─ ⊔⊔⊔.⊔⊔⊔                │
│  Ⓓ  PROG            TX        │
└─────────────────────────────┘
```
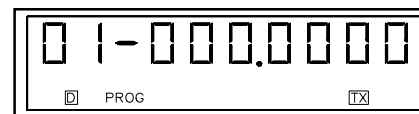
You are now in the dealer programming mode and may proceed to the **Dealer Programming Section** to program the radio.

## DEALER PROGRAMMING WITH A GROUP ERPOM

With one exception, all the dealer programming parameters remain the same.  The exception is that a pass number may be changed without having to erase all the channel information stored in the radio.  To do this the dealer enters the pass
number as usual and presses the **DISP** button.  At

this time "Clr PASS?" is displayed.  To continue on as normal, press the **DISP** button again.  To change the pass number, press the **PRI** button, enter the new pass number, press the **DISP** button then continue as normal.

# DEALER PROGRAMMING SECTION

## BASIC CONTROL OPERATION

Pressing the **DISP** button enters the information and steps through the dealer modes.

Pressing the **PRI** button changes the flashing digit(s).

Pressing **UP** or **DN** button changes the value of the flashing digit(s) (In the TX Power and Priority Channel option modes, the **PRI** button changes the information).

## DEALER MODES

When the radio is in the D PROG mode, a qualified person can program each channel with the following information:

1.  Channel number
2.  TX frequency
3.  RX frequency
4.  TX CTCSS tone
5.  RX CTCSS tone
6.  TX power output
7.  Channel name(ALPHA models only)

The following information effects all the channels in the radio and is programmed only once.

8.  TX time out timer
9.  Priority channel option
10.  Tone Lockout (V532, V611, ALPHA)

These 10 groups of information are programmed sequentially in the following manner.

## 1.HOW TO PROGRAM THE CHANNEL NUMBER

(a)     Enter the **D PROG** mode, the display will read:
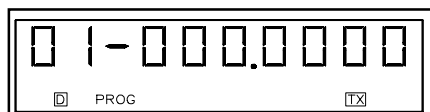


**The "1" is flashing.**

(b)     Press the **UP** or **DN** key, the flashing digit will step up or down one number each  time you press the key. Select the appropriate number for the channel desired (i.e. the 6 of 36, etc.).

(c)     Press the **PRI** key, the other channel digit will begin to flash.

(d)     You can now advance this number by pressing the **UP** or **DN** key, and complete the desired channel number.

## 2.HOW TO PROGRAM THE TX FREQUENCY

(a)     Having selected the channel number, for example, channel 99,press the **DISP** key. The display will read:
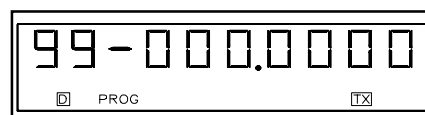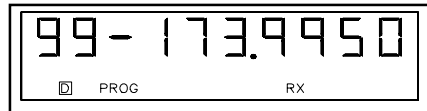


**The  1st -3 "000" are flashing.**

(b)     Press the **UP** or **DN** key and the flashing numbers will step up or down one MHz each time the key is pressed. Select the MHz portion of the frequency desired.

(c)     Press the **PRI** key and the next "0" will begin flashing.

(d)     Press the **UP** or **DN** key and the flashing digit will change one number each time the key is pressed. Select the "hundred thousand" portion of the frequency desired.

(e)     Press the **PRI** key and the last three "000" will be flashing.

(f)     Press the **UP** or **DN** key and the numbers will change in 5KHz steps (or 6.25 KHz steps if that option has been selected.-see Control Board Informaton) Select the "ten thousand and one thousand" portion of the frequency desired.

The display should now show the channel and the transmit frequency desired. If at this point you want to change any part of the TX frequency, pressing the **PRI** key will step you through the frequency sequence again.

## 3.HOW TO PROGRAM THE RX FREQUENCY

(a) Having programmed steps 1 and 2, with a TX frequency of eg. 173.995 MHz, press the **DISP** key once. The display will read:

```
99- 173.9950
 D   PROG           RX
```

**The "173" will be flashing.
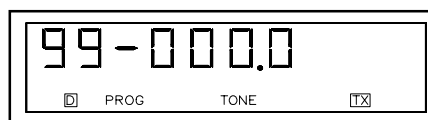The channel number will be the same.**

If this channel has not been programmed before, the frequency will be the same as has been programmed into the TX frequency. If this channel had a frequency programmed into it, that previous frequency will be displayed.(The process of changing this frequency is the same as the TX frequency.)

(b) Press the **UP** or **D N** key and the flashing numbers will step up or down one MHz each time the key is pressed. Select the MHz portion of the frequency desired.

(c) Press the **PRI** key and the next "0" will begin flashing.

(d) Press the **UP** or **D N** key and the flashing digit will change one number each time the key is pressed. Select the "hundred thousand" portion of the frequency desired.

(e) Press the **PRI** key and the last three "000" will be flashing.

(f) Press the **UP** or **D N** key and the numbers will change in 5KHz steps or whatever channel step size has been selected. Select the "ten thousand and one thousand" portion of the frequency desired.

The display should now show the channel number and the receive frequency desired. If at this point you want to change any part of the RX frequency pressing the **PRI** key will step the radio through the frequency sequence again.

## 4.HOW TO PROGRAM THE CTCSS TX TONE

(a) Having programmed steps 1, 2 and 3, press the **DISP** key. The display should read:

```
99-000.0
 D   PROG      TONE      TX
```
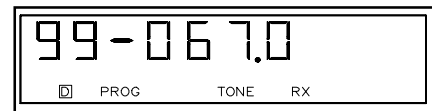
The channel number will be the same.

(b) Pressing the **U P** or **D N** key will step the display up or down through the normal 38 CTCSS tones. The tones read out in their frequency. Select the desired TX tone.

## 5.HOW TO PROGRAM THE CTCSS RX TONE

(a) Having programmed steps 1 through 4, and having put in TX CTCSS tone of eg. 67 KHz, press the **DISP** key. The display should now read:

```
99-067.0
 D   PROG      TONE   RX
```

If this channel has not been programmed before, the tone will be the same as has been programmed into the TX tone .

(b) Pressing the **U P** or **D N** key will step the display up or down through the normal 38 CTCSS tones. The tones read out in their frequency. Select the desired RX tone.
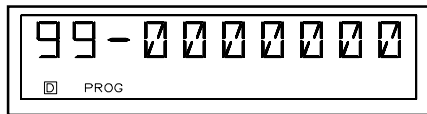
## 6.HOW TO PROGRAM THE TRANSMITTER POWER OUTPUT

(a) Having programmed steps 1 through 5 press the **DISP** key and the display should now read:

```
99-H I
 D   PROG
```
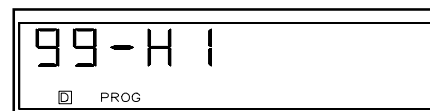
**The channel number will be the same**

## 7.HOW TO PROGRAM THE CHANNELNAME (Alpha Versions only)

(a) **Having programmed steps 1 through 6 press the DISP key and the display should now read:**

```
99-000000
 D  PROG
```

**The 1st "0" will be flashing.**
**The channel will be the same.**

(b) Press the **U P** and **D N** key and the flashing digit will change in the follow ing manner.

i)Up from 0 steps through numbers from 1 to 9 and then the alphabet.

ii)Down one step from 0 is a blank which allows the programmer to insert a space. (**NOTE: when a blank is selected the digit will no longer flash).**

iii)Down from the blank are various extra characters followed by the end of the alphabet. Press and holding the **U P** or **D N** key momentarily will scroll the characters rapidly until the key is released. The Alpha table is close ended, meaning it will continu- ously repeat if the **UP** or **D N** key is held long enough.

c) When the character required appears press, the **PRI** key to continue to the next digit. As in other programming sequences, the **PRI** key may be used to repeatedly select any digit until the name is complete. For example:
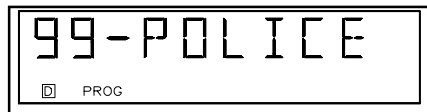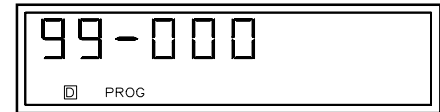
```
99-POLICE
 D  PROG
```

**8.HOW TO PROGRAM THE TIME-OUT-TIMER**

(a) Having programmed steps 1 through 7, press the **DISP** key and the display should read:
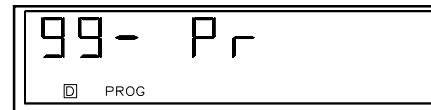
```
99-000
 D  PROG
```

**The channel number will be the same.**

(b) Pressing the **U P** or **D N** key will change the figures in 30 second jumps from 30 to 300 seconds. Select the time limit desired.

**9.HOW TO PROGRAM THE PRIORITY OPTION**

(a) Having programmed steps 1 through 8, press the **DISP** key. The display should now read:

```
99- Pr
 D  PROG
```

**The channel number will be the same.**

(b) The "Pr" may or may not be flashing. Pressing the **PRI** key will select whether the "Pr" is flashing or not.

(i)"Pr" Flashing – means any time the Pri mode is selected the radio will revert to the Priority channel when ever the mic is taken off hook.

(ii)"Pr" Not Flashing – means anytime the Pri mode is selected the radio will revert to the Priority channel when the mic is lifted off hook, only if the radio is not on a busy channel. If the radio is on a busy channel when the mic comes off hook the radio will stay on that busy channel until the mic is placed back on hook.

**10. HOW TO PROGRAM BUSY CHANNEL LOCKOUT (V532 , V611 and ALPHA ONLY)**

a)Having programmed steps 1 through 9, press the **DISP** key. The display should read:

```
99-Loc OFF
 D  PROG
```
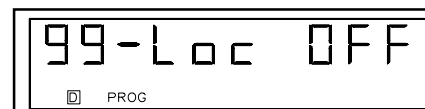
b)Pressing the **PRI** key will alternately change the

display between "**Loc OFF**" and "**Loc On**".

    i)"**Loc OFF**" means the CTCSS channels will allow monitoring.

    ii)"**Loc on**" activates the channel Lockout on all tone channels. Monitoring is not allowed, on or off hook. In addition, TX is inhibited on any busy channel if the correct tone is not present. A warning tone is then heard when **PTT** is pressed.

This completes the programming of one channel. Pressing the **DISP** key will advance the radio to the next channel and programming of this channel or any other desired channel is done by following the first 6 steps.

Once all the desired programming has been accomplished, press the **DISP** key once then turn the radio off for a few seconds then turn it back on. All the information programmed will be retained in the radio's memory and the radio is ready to be placed in service as far as dealer programming is concerned. It is a good idea, at this time, to check 1 or 2 channels in the radio for proper operation.

## 11.HOW TO CLEAR MEMORY
    (A) Enter the D PROG mode.
    (b) Press and hold the SCAN Key
    (c)Then press and hold the PRI key also
    (d)Release the SCAN key
    (e)Now release the PRI key

The display should be flashing and read "CH ALL Cl". After about 20 to 30 seconds the display will stop flashing and the memory will have been cleared.