



NATIONAL INTERAGENCY INCIDENT COMMUNICATIONS DIVISION
 DATRON PORTABLE RADIO ANALOG CHANNEL PROGRAMMING
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1. Select a channel for programming by rotating the Channel Select Knob to one of the sixteen rotary positions.
2. Press the Large **Green** Multi-Function key to bring up the Main Menu screen. **(See Figure 1)**
3. Scroll up/down using the Blue Multi-Functions keys (**up/down keys**) to select **"PROGRM"** and press the **"ENT"** key.
4. Enter a 6-Digit Password if requested and press the **" ENT"** key.

Note: *NIFC password is "000000".*

5. Scroll up/down and select **" CHANEL"** and press the **" ENT"** key. **(See Figure 2)**
6. Scroll down and select **" TAG"** and press the **" ENT"** key. **(see Figure 3)**

Change the channel name/label using the keypad and press the **" ENT"** key when complete.

Note: *"ID" cannot be changed, it is automatically updated when programming a channel.*

7. Scroll down and select **" MODE"** and press the **" ENT"** key. **(See Figure 4)**
- Select either **" ANALOG"** or **" DIGITAL"** and press the **" ENT"** key.

Note: *NIFC Default is "ANALOG" for all channels.*

8. Scroll down and select **" B/W"** and press the **" ENT"** key. **(See Figure 4)**

Select either **" 25Khz"** or **" 12.5Khz"** and press the **" ENT"** key.

Note: *25Khz= Wide-Band, 12.5khz= Narrow-Band. If "DIGITAL" is selected for "MODE", the "B/W" option is not available. Other options are available once "DIGITAL" is selected.*

Note: *NIFC Default is "12.5 Khz" for Narrow-Band operation.*

9. Scroll down and select **" ENCRPT"** and press the **" ENT"** key. **(See Figure 5)**

Select either **" ENABLD"** or **" DISABD"** and press the **" ENT"** key.

Note: *If Encryption is enabled, a key must be loaded first into the radio with the PC Programmer.*

Note: *NIFC Default is "DISABD"*

10. Scroll down and select **" RX"** and press **" ENT"**. **(See Figure 6)**

Enter a valid RX frequency from 136-174 Mhz using the keypad and press the **" ENT"** key.

11. Scroll down and select **" RX SQMD"** and press the **" ENT"** key. **(See Figure 7)**

Select either **" NOISE"**, **" DCS"**, **" CTCSS"**, or **" NONE"** and press the **" ENT"** key.

Note: *If "Noise" is selected, the program will proceed with the Squelch Adjust parameter (SQ=), select a squelch setting and press "ENT" when done; this setting opens the squelch with any corresponding analog signal. If "CTCSS" is selected, the program will proceed with a SUB Audible Tone menu, select a tone from the menu by scrolling through and then press "ENT"; this setting will open the squelch with any corresponding analog signal that contains the correct "CTCSS" tone. If "DCS" is selected, the program will proceed with the Digital Coded Squelch tone menu, select a tone from the menu by scrolling through and then press "ENT"; this setting will open the squelch with any corresponding analog signal that contains the correct "DCS" tone. If "None" is selected, squelch will be open at all times (Constant Open Squelch).*

Note: *NIFC Default is "Noise" with a "SQ" setting of 8.*

12. Scroll down and select **" TX"** and press the **" ENT"** key. **(See Figure 8)**

Enter a valid TX frequency from 136-174 Mhz using the keypad and press the **" ENT"** key.

13. Scroll down and select **" TX SQMD"** and press the **" ENT"** key. **(See Figure 9)**

Select either **" DCS"**, **" CTCSS"**, or **" NONE"** and press the **" ENT"** key.

Note: *If "CTCSS" is selected, the program will proceed with a Sub Audible Tone menu, select a tone from the menu by scrolling through and press "ENT"; this setting will include a "CTCSS" tone on the analog transmit signal. If "DCS" is selected, the program will proceed with a Digital Coded Squelch menu, select a tone from the menu by scrolling through and then press "ENT"; this setting will include a "DCS" tone on the analog transmit signal. If "None" is selected, no tones are sent out on the analog transmit signal.*

Note: *NIFC Default is "None".*

14. Scroll down and select **" LO PWR"** and press **" ENT"**. **(See Figure 10)**

Select either **" 0.1"**, **" 0.5"**, **" 1.0"**, **" 2.0"**, or **" 5.0"** Watts for low power setting and press the **" ENT"** key.

Note: *NIFC Default for Low Power is 1.0 Watts.*

15. Scroll down and select **" HI PWR"** and press the **" ENT"** key. **(See Figure 10)**

Select either **" 0.1"**, **" 0.5"**, **" 1.0"**, **" 2.0"**, or **" 5.0"** Watts for high power setting and press the **" ENT"** key.

Note: *NIFC Default for Hi Power is 2.0 Watts.*

16. If screen reads **" SAVE CHANNEL "**, select **" YES"** to save. If not, channel information was stored and you can select another channel using the channel select knob and continue programming other channels or press **" ESC"** a few times to return to the main display.

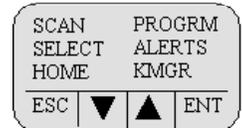


Fig. 1: Main Program Menu



Fig. 2: Program Menu



Fig. 3: Channel Program 1

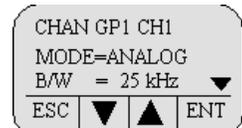


Fig. 4: Channel Program 2

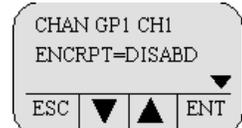


Fig. 5: Channel Program 3

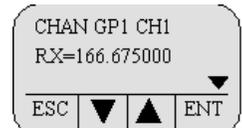


Fig. 6: Channel Program 4

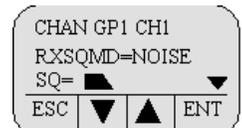


Fig. 7: Channel Program 5

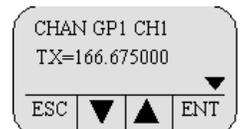


Fig. 8: Channel Program 6

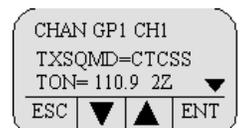


Fig. 9: Channel Program 7

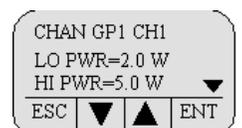


Fig. 10: Channel Program 8



ADD/REMOVE CHANNEL FROM SCAN LIST

1. Set the radio that the channel to be added in the Scan List by using the Channel Select knob.
2. **To Add Channel**, briefly press and release the 3rd Multi-Function key from the left, when released a box "□" will enclose the "C" in the display, indicating that the channel is in the scan list. (See Figure 1)
3. **To Remove**, briefly press and release the 2nd Multi-Function key from the left. The box "□" will be removed from the "C" in the display.

Note: *If the 3rd Multi-Function key is pressed to long, it will enable Zone Scan, which will scan other scan channels in different zones/groups.*

SCAN/PRIORITY SCAN MODE

1. **To Enable SCAN**, the 3-position toggle switch must be in the "B" position. The display will indicate that the radio is scanning. (See figure 2)
2. **To Enable PRI SCAN**, the top 3-Position toggle switch must be in the "A" position. The display will indicate that the radio that Priority Scan is enabled. (See Figure 3)
3. **To Disable SCAN/PRI SCAN**, the 3-position toggle switch must be in the "C" position.

Note: *In order for Priority Scan to function properly, the user must add a priority scan channel. (See Add Priority Scan Channel)*

ADD PRIORITY SCAN CHANNEL

1. Press the Large Green Multi-Function key to bring up the Main Menu screen.
2. Scroll down to "PROGRM" and press the "ENT" key.
3. Scroll down to "SCAN" and press the "ENT" key.
4. Scroll down to "P1" and press the "ENT" key.
5. Select the P1 Channel by using the Channel select knob and press the "ENT" key when done.
6. To add a second priority channel P2, scroll down to "P2" and press the "ENT" key. Select the P2 Channel by using the Channel Select Knob and the press the "ENT" key when done.
7. Press the "ESC" key a few times to reach the main screen.

Note: *In order for P2 channel to function properly, the user must enable the P2 function under the scan options. Press the "ENT" key to bring up the Main Menu Screen. Select "SCAN" and press the "ENT" key. Scroll down to "PRIMODE" and press the "ENT" key. Select "PR1+2" to enable P2 scan function. Once P2 scan function is enabled, when the radio is set to Priority Scan, the display will indicate that both Priority Channels are being scanned. (See Figure 4)*

NIFC Default is P1 Enabled.

CHANGING ZONES

1. Press the Large Green Multi-Function key to bring up the Main Menu screen.
2. Scroll down to "SELECT" and press the "ENT" key.
3. Scroll down to "ZONE" and press the "ENT" key. (See Figure 5)
4. Scroll to the desired zone/group and press the "ENT" key to select the zone. Press the "ESC" key a few times to reach the main screen.

Note: *NIFC has a total of 16 available zones under the NIFC Bank. Additional 3 zones are available under the Incident Bank. NIFC Default is "NIFC BANK"*

CHANGING BANKS

1. Press the Green Multi-Function key to bring up the Main Menu screen.
2. Scroll down to "SELECT" and press the "ENT" key.
3. Scroll down to "BANK" and press the "ENT" key. (See Figure 5)
4. Scroll to the desired bank and press the "ENT" key to select a bank. Press the "ESC" key a few times to reach the main screen.

Note: *NIFC Default in "NIFC Bank". The "INCIDENT Bank" contains 3 additional zones available for programming or cloning.*

DISABLE/ENABLE KEYPAD

1. Press and hold the 1st Blue Multi-Function key while pressing and holding the Green Multi-Function key. Display will show "Keys Disabled", "Side Enabled". (Only the keypad is disabled, while all the side button are still enabled)
2. Repeat the process, display shows "Keys Disabled", "Side Disabled". (Both the keypad and the side buttons are disabled)
3. To Enable Keypad and Side buttons, repeat the process on more time and display will show "Keys Enabled, "Side Enabled". (See Figures 6 & 7)



Fig. 1: Scan Channel

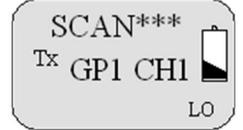


Fig. 2: Scan Mode Display

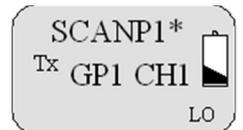


Fig. 3: Pri Scan Mode Display

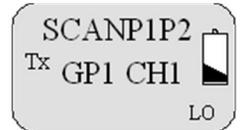


Fig. 4: Pri 2 Scan Mode Display



Fig. 5: Select Mode Menu



Fig. 6: Keys Disabled Screen

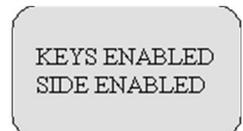


Fig. 7: Keys Enabled Screen



NATIONAL INTERAGENCY INCIDENT COMMUNICATIONS DIVISION DATRON PORTABLE RADIO CLONING INSTRUCTIONS

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1. Turn both radios on.
2. Connect Source end of cloning cable to Master Radio. (See Figure 8)
3. Connect Target end of cloning cable to Slave/Target Radio.

Master radio automatically detects the target radio, and brings up the Cloning Main Menu. (See Figure 1)

Note: If a non-Fire Feature target radio is connected, the only cloning option is to clone all channels, zones, and banks.

4. Scroll down using the "▼" softkey through the Cloning Main Menu.
5. Use the "√" softkey to select or de-select cloning features.

Selectable Cloning Features: (See Figure 1 & 2)

- GLOBAL DATA:** Clones all buttons, toggle switch settings, and scan configurations.
ALL ZONE: Clones all Bank and Zone information in radio, including the "Event Bank"
EVENT CLONE: Clones either one of the event zones (17,18, or 19) or can select all event zones to clone.
FULL EVBANK: Clones all zones, channels in the event zones (17,18, 19).
TX SQL LIST: Clones Analog/Digital Transmit Squelch tone pick list.
TALKGP LIST: Clones talk group list (DIGITAL Only).

6. Select desired cloning process; "GLOBAL DATA", "ALL ZONE", "EVENT CLONE", "FULL EVBANK", "TX SQL LIST", or "TALKGP LIST" and press the "ENTER" key.

Cloning Procedure For Each Cloning Feature

- GLOBAL DATA:** Press the "PTT" button to send data to clone radio. (See Figure 3)
ALL ZONES: Press the "PTT" button to send data to clone radio. (See Figure 3)
EVENT CLONE: Press the "ENTER" key. (See Figure 3)
 Select "SELECT ZONES" and press the "ENTER" key. (See Figure 4)
 Select which Invert Zone will be cloned in the "Target" radio and press "ENTER". (See Figure 5)
 Select which Zone will be cloned from the "Source" radio to the "Target" radio by scrolling through the available zones and press the "ENTER" key. (See Figure 6)
 Press "ESC" once to return to the "Start Cloning" menu.
 Select "START CLONING" and press the "ENTER" key.
 Press the "PTT" to download to the "Target" radio.

Note: When performing an "EVENT CLONE", the user can only select zones for that current bank. If Zones 17, 18, or 19 need to be cloned over to the "Target" radio, the user must first select the "Event Bank" on the Master radio before connecting the cloning cable in order to select these zones.

- FULL EVBANK:** Press the "PTT" button to send data to clone radio. (See Figure 3)
TX SQL LIST: Press the "PTT" button to send data to clone radio. (See Figure 3)
TALKGP LIST: Press the "PTT" button to send data to clone radio. (See Figure 3)

7. Once the clone is complete, the "Target" radio will indicate which zone or zones where cloned over. (See Figure 7)
8. Disconnect "Target" radio and connect any other "Target" radios that need to be cloned.



Fig. 1: Cloning Main Menu



Fig. 2: Cloning Main Menu 2

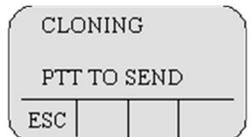


Fig. 3: Push PTT to Send Menu

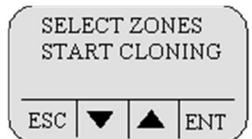


Fig. 4: Select Zones Menu



Fig. 5: Target Zones Screen

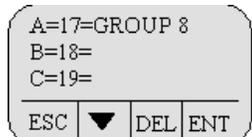


Fig. 6: Source Zones Screen

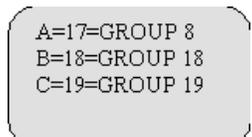


Fig. 7: Target Radio Screen



Fig. 8: Cloning Cable Connections



1. Turn power ON by turning the ON/OFF Volume knob clockwise.
A beep indicates the radio is operational. The LCD will indicate the current group and channel.
2. Select a channel by turning the Channel Select Knob to one of the 16 available positions.
3. Adjust the volume by pressing the Squelch Monitor Button to open the squelch and set the volume to desired level.
Press the Squelch Monitor Button once more to close the squelch.

The radio is ready to receive on that current channel.

5. To Transmit, press and hold the Push-To-Talk (PTT).
Note: The Transmit Indicator should light RED. If not, the battery may be low or the channel is busy.
6. Pause 1 Second and talk in a normal voice into the microphone.
Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.
7. Release the PTT to stop transmitting and receive incoming transmissions.

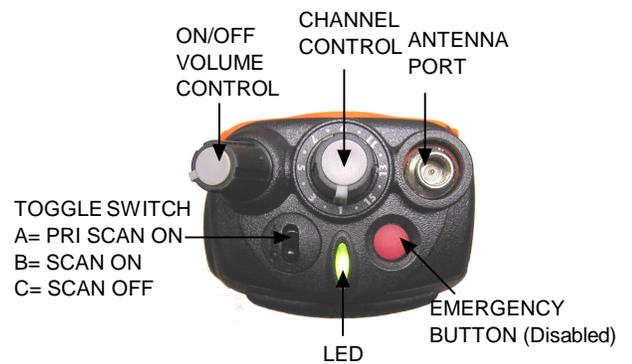


Figure 1: DATRON Top View



Figure 2: DATRON Front View



Figure 3: DATRON Side View