



NIRSC ICOM IC-A3 POCKET CARD

MANUAL FREQUENCY ENTRY

1. Select Frequency Mode by pressing "CLR".
2. Enter desired frequency using digit keys on keypad, using the tuning dial, or using the "UP/DOWN" arrow keys.

Basic Operation

RECEIVING

1. Turn the Radio "ON" by turning the "ON/OFF" volume knob clockwise.
2. Select a valid AM frequency from on the memory locations or direct enter a valid AM frequency via the keypad. *(See Manual Frequency Entry)*
3. Adjust the volume level by turning the Volume knob to desired level.
Note: Rotating the "Squelch Control" maximum clockwise, will open the Squelch to allow the volume to be set to a desired level.
4. Rotate "Squelch Control" counterclockwise until noise is muted on the speaker.
Note: If "squelch" control is set too "tight", squelch may not open for weak signals.
5. Push the "ANL" side button to reduce pulse noise caused by engine ignitions or other outside interference.
6. The radio is ready to RECEIVE on that current Frequency.

TRANSMITTING

1. Set the desired frequency. *(See Manual Frequency Entry)*
2. Press and hold the "PTT" to transmit.
3. Speak into mic at a normal voice level.
4. Release "PTT" to return to receive incoming transmissions.
Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

Note: Once the frequency is set, the radio operates on this frequency on both TX and RX.

IC-A3 SETTINGS & OPTIONS

MEMORY CHANNEL SELECTION

1. Press the "MR" key to select memory mode.
2. Select desired memory channel using two digits (01-50) on the keypad or by rotating the channel knob.
Note: NIRSC has preprogrammed 6 AM Frequencies in memory locations 1-6

PROGRAMMING A MEMORY CHANNEL

1. Set the desired frequency.
2. Press the "F" key then the "MR" key.
3. Select the memory channel (01-50) to be programmed using two digits on the keypad or rotating the channel knob.
4. Press "ENT" to enter the frequency in memory
or
5. Press "MR" to change the alpha/numeric label then pressing "ENT" to store the frequency and label into memory.
Note: The user must know which keys correspond to alpha characters. When entering alpha characters, use up/down arrow keys to move cursor.

LOCK FUNCTION (DISABLE/ENABLE KEYPAD)

1. Press the "F" key then press the "7" key [KEY LOCK] to turn the function ON or OFF.
Note: A key icon appears in the display when Key Lock is on.

CLEARING MEMORY CONTENTS

1. Select a memory channel to be cleared.
2. Press "F" then press and hold "CLR" for 1 second. "-----" displays momentarily when memory is cleared.
Note: Programming over a memory channel also clears the programmed contents. Memory channel 1 cannot be cleared.



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Basic Operation

RECEIVING

1. Turn the Radio "ON" by turning the "ON/OFF" volume knob clockwise.
2. Select a valid AM frequency from on the memory locations or direct enter a valid AM frequency via the keypad. *(See Manual Frequency Entry)*
3. Adjust the volume level by turning the Volume knob to desired level.
Note: Rotating the "Squelch Control" maximum clockwise, will open the Squelch to allow the volume to be set to a desired level.
4. Rotate "Squelch Control" counterclockwise until noise is muted on the speaker.
Note: If "squelch" control is set too "tight", squelch may not open for weak signals.
5. Push the "ANL" side button to reduce pulse noise caused by engine ignitions or other outside interference.
6. The radio is ready to RECEIVE on that current Frequency.

TRANSMITTING

1. Set the desired frequency. *(See Manual Frequency Entry)*
2. Press and hold the "PTT" to transmit.
3. Speak into mic at a normal voice level.
4. Release "PTT" to return to receive incoming transmissions.
Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

Note: Once the frequency is set, the radio operates on this frequency on both TX and RX.

IC-A3 SETTINGS & OPTIONS

MEMORY CHANNEL SELECTION

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Note: NIRSC has preprogrammed 6 AM Frequencies in memory locations 1-6

PROGRAMMING A MEMORY CHANNEL

1. Set the desired frequency.
2. Press the "F" key then the "MR" key.
3. Select the memory channel (01-50) to be programmed using two digits on the keypad or rotating the channel knob.
4. Press "ENT" to enter the frequency in memory
or
5. Press "MR" to change the alpha/numeric label then pressing "ENT" to store the frequency and label into memory.
Note: The user must know which keys correspond to alpha characters. When entering alpha characters, use up/down arrow keys to move cursor.

LOCK FUNCTION (DISABLE/ENABLE KEYPAD)

1. Press the "F" key then press the "7" key [KEY LOCK] to turn the function ON or OFF.
Note: A key icon appears in the display when Key Lock is on.

CLEARING MEMORY CONTENTS

1. Select a memory channel to be cleared.
2. Press "F" then press and hold "CLR" for 1 second. "-----" displays momentarily when memory is cleared.
Note: Programming over a memory channel also clears the programmed contents. Memory channel 1 cannot be cleared.



NIRSC ICOM IC-A6 POCKET CARD

Basic Operation

RECEIVING

1. Press and hold the "PWR" softkey for 3 seconds to turn power "ON".
2. Select a valid AM frequency from one of the memory locations or direct enter a valid AM frequency via the keypad. *(See Manual Frequency Entry)*
3. Adjust the volume by turning the Volume Knob to desired level.
4. Adjust the Squelch by pushing the "SQL" softkey, then rotate the tuning dial to desired squelch level (00 - 24). *(See Setting Squelch Level)*
Note: If the squelch control is set too high, squelch may not open weak signals.
4. Push the "ANL" side button to reduce pulse noise caused by engine ignitions or other outside interference. *(See ANL Function)*
5. The radio is ready to **RECEIVE** on that current frequency.

TRANSMITTING

1. Set the desired frequency.
2. Press and hold the "PTT" to transmit.
3. Speak into mic at a normal voice level.
4. Release "PTT" to return to receive incoming transmissions.
Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

Note: Once the frequency is set, the radio operates on this frequency on both TX and RX.

IC-A6 SETTINGS & OPTIONS

MANUAL FREQUENCY ENTRY USING THE KEYPAD

1. Press and Hold the "PWR" softkey for 3 seconds until the power turns ON.
2. Push the "SQL" softkey to select frequency mode.
3. Enter a valid 5 digit AM frequency and press the "ENT" key. *(118.000 through 136.975)*
Note: Programming over a memory channel also clears the programmed contents.
Memory channel 1 cannot be cleared.

MANUAL FREQUENCY ENTRY USING THE TUNING DIAL

1. Press and Hold the "PWR" softkey for 3 seconds until the power turns "ON".
2. Push the "CLR" softkey to select frequency mode.
3. Rotate the tuning dial to set the desired frequency. *(Scroll 118.000 through 136.975)*

KEYPAD LOCK FUNCTION

1. To Enable Key Lock, press the "F" key, then press the "7" key *(Key Lock)*.
2. To Disable Key Lock, repeat the process. *(LCD displays " " when enabled)*
Note: The lock function prevents accidental frequency changes & accidental function activation.

SETTING SQUELCH LEVEL

1. Push the "SQL" softkey, then rotate the tuning dial to desired squelch level (00 - 24).
Note: "SQL -- 0" is open squelch and "SQL -- 24" is tight squelch.
(NIRSC suggested level is 20)
If the squelch is set too high, squelch may not open for weak signals.

AUTOMATIC NOISE LIMITER (ANL) FUNCTION

1. To Enable ANL, press the "ANL" softkey.
(LCD displays an "ANL" icon in the lower part of the LCD indicating ANL is enabled)
2. To Disable ANL, press the "ANL" softkey.
Note: The ANL function reduces pulse noise or other outside interference.



NIRSC ICOM IC-A6 POCKET CARD

Basic Operation

RECEIVING

1. Press and hold the "PWR" softkey for 3 seconds to turn power "ON".
2. Select a valid AM frequency from one of the memory locations or direct enter a valid AM frequency via the keypad. *(See Manual Frequency Entry)*
3. Adjust the volume by turning the Volume Knob to desired level.
4. Adjust the Squelch by pushing the "SQL" softkey, then rotate the tuning dial to desired squelch level (00 - 24). *(See Setting Squelch Level)*
Note: If the squelch control is set too high, squelch may not open weak signals.
4. Push the "ANL" side button to reduce pulse noise caused by engine ignitions or other outside interference. *(See ANL Function)*
5. The radio is ready to **RECEIVE** on that current frequency.

TRANSMITTING

1. Set the desired frequency.
2. Press and hold the "PTT" to transmit.
3. Speak into mic at a normal voice level.
4. Release "PTT" to return to receive incoming transmissions.
Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

Note: Once the frequency is set, the radio operates on this frequency on both TX and RX.

IC-A6 SETTINGS & OPTIONS

MANUAL FREQUENCY ENTRY USING THE KEYPAD

1. Press and Hold the "PWR" softkey for 3 seconds until the power turns ON.
2. Push the "SQL" softkey to select frequency mode.
3. Enter a valid 5 digit AM frequency and press the "ENT" key. *(118.000 through 136.975)*
Note: Programming over a memory channel also clears the programmed contents.
Memory channel 1 cannot be cleared.

MANUAL FREQUENCY ENTRY USING THE TUNING DIAL

1. Press and Hold the "PWR" softkey for 3 seconds until the power turns "ON".
2. Push the "CLR" softkey to select frequency mode.
3. Rotate the tuning dial to set the desired frequency. *(Scroll 118.000 through 136.975)*

KEYPAD LOCK FUNCTION

1. To Enable Key Lock, press the "F" key, then press the "7" key *(Key Lock)*.
2. To Disable Key Lock, repeat the process. *(LCD displays " " when enabled)*
Note: The lock function prevents accidental frequency changes & accidental function activation.

SETTING SQUELCH LEVEL

1. Push the "SQL" softkey, then rotate the tuning dial to desired squelch level (00 - 24).
Note: "SQL -- 0" is open squelch and "SQL -- 24" is tight squelch.
(NIRSC suggested level is 20)
If the squelch is set too high, squelch may not open for weak signals.

AUTOMATIC NOISE LIMITER (ANL) FUNCTION

1. To Enable ANL, press the "ANL" softkey.
(LCD displays an "ANL" icon in the lower part of the LCD indicating ANL is enabled)
2. To Disable ANL, press the "ANL" softkey.
Note: The ANL function reduces pulse noise or other outside interference.



NIRSC DATRON POCKET CARD

1. Select the group and channel that is needed to programmed.
2. Program Access
Press the Large Green Multi-function key to bring up the Main Menu Screen.
Scroll up/down using the Blue Multi-function keys to select "PROGRM" and press the "ENT" key.
Enter a 6-Digit Password if requested and press the "ENT" key. (NIFC Password is "000000")
3. Programming a Channel (ANALOG ONLY)
 - Scroll down to "CHANNEL" and press "ENT" to start programming the channel parameters.
 - Scroll down to "TAG" and press "ENT". Change the channel name using keypad and press "ENT".
 - Scroll down to "MODE" and press "ENT". Select "ANALOG" and press "ENT".
 - Scroll down to "BW" and press "ENT". Select either "25Khz" or "12.5Khz" and press "ENT".
Note: 25Khz= Wideband, 12.5Khz= Narrowband
 - Scroll down to "ENCRPT" and press "ENT". Select "DISABD" and press "ENT".
 - Scroll down to "RX" and press "ENT". Enter the RX frequency using keypad and press "ENT".
 - Scroll down to "RX SQMD" and press "ENT". Select either NOISE, DCS, CTCSS, or NONE.
Note: "NOISE" uses Squelch level to open RX, "DCS" use DCS code to open RX, "CTCSS" uses CTCSS to open RX, and "None" opens RX squelch at all times.
 - Scroll down to "TX" and press "ENT". Enter the TX frequency using keypad and press "ENT".
 - Scroll down to "TX SQMD" and press "ENT". Select either DCS, CTCSS, or NONE.
Note: "DCS" sends DCS code on TX carrier, "CTCSS" send CTCSS tone on TX carrier, and "None" sends no tones.
 - Scroll down to "LO PWR" and press "ENT". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENT" softkey.
 - Scroll down to "HI PWR" and press "ENT". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENT" softkey.

If screen reads "SAVE CHANNEL", select "YES". If not, the channel information has been stored. Select another channel and continue programming or press "ESC" a few times to exit.

DATRON SETTINGS AND OPTIONS

ADD/REMOVING A CHANNEL FROM SCAN LIST

1. Select a Channel to Add to Scan List with the channel select knob.
2. To Add, briefly press & release the 3rd Multi-function key from the left, when released a box "□" will enclose the "C" in the display.
3. To Remove, briefly press & release the 2nd Multi-function key from the left. The box "□" will be removed from the "C" in the display.

ADD PRIORITY SCAN CHANNEL

1. Press the Large Green Multi-function key for bring up the Main Menu, and select "PROGRM".
2. Scroll down to "SCAN" and press the "ENT" softkey.
3. Scroll down to "P1" and press the "ENT" softkey. Select a desired channel and press "ENT".
4. Press "ESC" key a few times to return to main screen.
TOP Toggle Switch: C=Scan OFF, B=Scan ON, C=PRI Scan ON

CHANGE 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" softkey
3. Scroll down to "ZONE" and press "ENT". Scroll to the desired zone and press "ENT", then press the "ESC" softkey a few times to reach the main screen.

DISABLE/ENABLE KEYPAD

1. Press and hold the 1st Blue Multi function key while pressing and holding Large Green key. Display will show "Keys Disabled", "Side Enabled".
2. Repeat the process, display shows "Keys Disabled, Side Disabled"
3. To Enable all keys, repeat the process on more time.

HI/LOW POWER SELECTION

1. Press the programmed power selection side button to toggle between HI and LOW Power.
Note: Third side button from the top is programmed as the HI/LOW Power Switch.



NIRSC DATRON POCKET CARD

1. Select the group and channel that is needed to programmed.
2. Program Access
Press the Large Green Multi-function key to bring up the Main Menu Screen.
Scroll up/down using the Blue Multi-function keys to select "PROGRM" and press the "ENT" key.
Enter a 6-Digit Password if requested and press the "ENT" key. (NIFC Password is "000000")
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 - Scroll down to "CHANNEL" and press "ENT" to start programming the channel parameters.
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 - Scroll down to "MODE" and press "ENT". Select "ANALOG" and press "ENT".
 - Scroll down to "BW" and press "ENT". Select either "25Khz" or "12.5Khz" and press "ENT".
Note: 25Khz= Wideband, 12.5Khz= Narrowband
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 - Scroll down to "RX" and press "ENT". Enter the RX frequency using keypad and press "ENT".
 - Scroll down to "RX SQMD" and press "ENT". Select either NOISE, DCS, CTCSS, or NONE.
Note: "NOISE" uses Squelch level to open RX, "DCS" use DCS code to open RX, "CTCSS" uses CTCSS to open RX, and "None" opens RX squelch at all times.
 - Scroll down to "TX" and press "ENT". Enter the TX frequency using keypad and press "ENT".
 - Scroll down to "TX SQMD" and press "ENT". Select either DCS, CTCSS, or NONE.
Note: "DCS" sends DCS code on TX carrier, "CTCSS" send CTCSS tone on TX carrier, and "None" sends no tones.
 - Scroll down to "LO PWR" and press "ENT". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENT" softkey.
 - Scroll down to "HI PWR" and press "ENT". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENT" softkey.

If screen reads "SAVE CHANNEL", select "YES". If not, the channel information has been stored. Select another channel and continue programming or press "ESC" a few times to exit.

DATRON SETTINGS AND OPTIONS

ADD/REMOVING A CHANNEL FROM SCAN LIST

1. Select a Channel to Add to Scan List with the channel select knob.
2. To Add, briefly press & release the 3rd Multi-function key from the left, when released a box "□" will enclose the "C" in the display.
3. To Remove, briefly press & release the 2nd Multi-function key from the left. The box "□" will be removed from the "C" in the display.

ADD PRIORITY SCAN CHANNEL

1. Press the Large Green Multi-function key for bring up the Main Menu, and select "PROGRM".
2. Scroll down to "SCAN" and press the "ENT" softkey.
3. Scroll down to "P1" and press the "ENT" softkey. Select a desired channel and press "ENT".
4. Press "ESC" key a few times to return to main screen.
TOP Toggle Switch: C=Scan OFF, B=Scan ON, C=PRI Scan ON

CHANGE 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" softkey
3. Scroll down to "ZONE" and press "ENT". Scroll to the desired zone and press "ENT", then press the "ESC" softkey a few times to reach the main screen.

DISABLE/ENABLE KEYPAD

1. Press and hold the 1st Blue Multi function key while pressing and holding Large Green key. Display will show "Keys Disabled", "Side Enabled".
2. Repeat the process, display shows "Keys Disabled, Side Disabled"
3. To Enable all keys, repeat the process on more time.

HI/LOW POWER SELECTION

1. Press the programmed power selection side button to toggle between HI and LOW Power.
Note: Third side button from the top is programmed as the HI/LOW Power Switch.



NIRSC MIDLAND POCKET CARD

1. Select the group and channel that is needed to be programmed. (See *Changing Zones*)
2. Programming a Channel (**ANALOG ONLY**)
 - Select "Menu" softkey, scroll up/down to "Channel Parameters" and press the "Select" softkey
 - Scroll up/down to "Channel" and press the "Select" softkey.
 - Enter a 5-Digit password and press "OK". (NIRSC Radio Password is "00000")
 - Scroll up/down to desired channel and press the "Select" softkey to enter channel parameters.

Channel Parameters:

 - Channel Mode: Press "Edit" and scroll up/down to select "Analog" and press "OK".
 - RX Freq: Press "Edit", then press "C" several times to clear and enter a new RX Frequency and press "OK" when done.
 - TX Freq: Press "Edit", then press "C" several times to clear and enter a new TX Frequency and press "OK" when done.
 - TX Power: Press "Edit" and scroll up/down to select either "Low, Medium, or High" and press "OK".
 - Channel Name: Press "Edit", then press "C" several times to clear and enter new name via the alphanumeric keypad and press "OK" when done.
 - TX Timeout: Press "Edit" and scroll up/down to select "Yes" and press "OK". (Default=120 Sec)
 - RX Tone Type: Press "Edit" and scroll up/down to select "CCS" and press "OK".
 - RX Tone: Press "Edit" and scroll up/down to select desired tone from list or select "NONE" and press "OK" when done.
 - TX Tone Type: Press "Edit" and scroll up/down to select "CCS" and press "OK".
 - TX Tone: Press "Edit" and scroll up/down to select desired tone from list or select "NONE" and press "OK" when done.
 - Channel Spacing: Press "Edit" and scroll up/down to select "12.5Khz or 15Khz" and press "OK".
 - ANI Type: Press "Edit" and scroll up/down to select either "None, 5-Tone, DTMF" and press "OK".
 - Selcall Type: Press "Edit" and scroll up/down to select "None" and press "OK".

Once all parameters are entered, press the "Exit" key. Press "Yes" when display shows "Save Changes Permanently?".

MIDLAND SETTINGS AND OPTIONS

CHANGING ZONES

To change groups, press the "Zone" softkey. Enter the zone number via the key pad and press the "OK" softkey.

OR

Press the "Zone" softkey. Press the UP/Down keypad keys to desired zone and press "OK".

ENABLING/DISABLING SCAN

To Enable Scan - Press the "C" softkey. The display will indicate the radio is scanning by a "Z" icon in the upper right corner.

To Disable Scan - Press the "C" softkey.

Note: Pressing the "Menu" softkey while scanning will also disable scan.

ADD/REMOVE CHANNEL FROM SCAN LIST

- **To Add a Channel** - Press the "Menu" softkey, scroll down to "Channel Parameter" using the up/down softkeys and press the "Select" softkey.
- Scroll down to "Channel Scan" and press the "Select" softkey.
- Scroll up/down to desired channel and press the "Select" softkey. Scroll to "Add to List", "1st Priority" or "2nd Priority" and press the "OK" softkey.
- Press the "Exit" softkey, and continue adding more channels to the scan list.
- Once complete, press "Exit" twice to close scan edit list.
- **To Remove a Channel** - Repeat the process and select "Remove".

HI/MID/LOW Power Selection (H= 5W High Power, M= 2W Medium Power, L=1W Low Power)

Press the "F1" side button to cycle between HI/MID/LOW power settings.

LOCKING KEYPAD

Press the " " softkey once to lock key pad.

Press the " " softkey once more then press the "Unlock" softkey to unlock keypad.



NIRSC MIDLAND POCKET CARD

1. Select the group and channel that is needed to be programmed. (See *Changing Zones*)
2. Programming a Channel (**ANALOG ONLY**)
 - Select "Menu" softkey, scroll up/down to "Channel Parameters" and press the "Select" softkey
 - Scroll up/down to "Channel" and press the "Select" softkey.
 - Enter a 5-Digit password and press "OK". (NIRSC Radio Password is "00000")
 - Scroll up/down to desired channel and press the "Select" softkey to enter channel parameters.

Channel Parameters:

 - Channel Mode: Press "Edit" and scroll up/down to select "Analog" and press "OK".
 - RX Freq: Press "Edit", then press "C" several times to clear and enter a new RX Frequency and press "OK" when done.
 - TX Freq: Press "Edit", then press "C" several times to clear and enter a new TX Frequency and press "OK" when done.
 - TX Power: Press "Edit" and scroll up/down to select either "Low, Medium, or High" and press "OK".
 - Channel Name: Press "Edit", then press "C" several times to clear and enter new name via the alphanumeric keypad and press "OK" when done.
 - TX Timeout: Press "Edit" and scroll up/down to select "Yes" and press "OK". (Default=120 Sec)
 - RX Tone Type: Press "Edit" and scroll up/down to select "CCS" and press "OK".
 - RX Tone: Press "Edit" and scroll up/down to select desired tone from list or select "NONE" and press "OK" when done.
 - TX Tone Type: Press "Edit" and scroll up/down to select "CCS" and press "OK".
 - TX Tone: Press "Edit" and scroll up/down to select desired tone from list or select "NONE" and press "OK" when done.
 - Channel Spacing: Press "Edit" and scroll up/down to select "12.5Khz or 15Khz" and press "OK".
 - ANI Type: Press "Edit" and scroll up/down to select either "None, 5-Tone, DTMF" and press "OK".
 - Selcall Type: Press "Edit" and scroll up/down to select "None" and press "OK".

Once all parameters are entered, press the "Exit" key. Press "Yes" when display shows "Save Changes Permanently?".

MIDLAND SETTINGS AND OPTIONS

CHANGING ZONES

To change groups, press the "Zone" softkey. Enter the zone number via the key pad and press the "OK" softkey.

OR

Press the "Zone" softkey. Press the UP/Down keypad keys to desired zone and press "OK".

ENABLING/DISABLING SCAN

To Enable Scan - Press the "C" softkey. The display will indicate the radio is scanning by a "Z" icon in the upper right corner.

To Disable Scan - Press the "C" softkey.

Note: Pressing the "Menu" softkey while scanning will also disable scan.

ADD/REMOVE CHANNEL FROM SCAN LIST

- **To Add a Channel** - Press the "Menu" softkey, scroll down to "Channel Parameter" using the up/down softkeys and press the "Select" softkey.
- Scroll down to "Channel Scan" and press the "Select" softkey.
- Scroll up/down to desired channel and press the "Select" softkey. Scroll to "Add to List", "1st Priority" or "2nd Priority" and press the "OK" softkey.
- Press the "Exit" softkey, and continue adding more channels to the scan list.
- Once complete, press "Exit" twice to close scan edit list.
- **To Remove a Channel** - Repeat the process and select "Remove".

HI/MID/LOW Power Selection (H= 5W High Power, M= 2W Medium Power, L=1W Low Power)

Press the "F1" side button to cycle between HI/MID/LOW power settings.

LOCKING KEYPAD

Press the " " softkey once to lock key pad.

Press the " " softkey once more then press the "Unlock" softkey to unlock keypad.



NIRSC MOTOROLA 2500/5000 POCKET CARD

1. Program Access

Press the 4-Way Navigation Key to the right until 'FPP' softkey is displayed.

Press the 'FPP' softkey to proceed into programming mode.

Radio will prompt for 'Password', press the 'OK' softkey to enter program mode.

Radio will display active zone, select the desired zone by pressing the 4-Way Nav. key left or right.

Once desired zone is reached, press the 'VIEW' softkey to select that zone channel information.

2. Programming a Channel (ANALOG Only)

Once the zone is selected, select the desired channel, by pressing the 4-Way Nav. key left or right.

Press the 'View' softkey to change that particular channel information.

Press the 'Edit' softkey to change the 'TX' frequency, press the 'OK' key when done.

Press the 4-Way key to the right to enter the RX frequency.

Press the 'Edit' softkey to change the 'RX' frequency, press the 'OK' key when done.

Press the 4-Way key to the right several times until 'RX Type' is displayed.

Press the 'Edit' softkey to change the RX type, press the 4-way key up/down to toggle between

'ANALOG', 'MIXED' or 'DIGITAL', select 'ANALOG' and press the 'OK' key when done.

Press the 4-way key to the right several times until 'Bandwidth' is displayed.

Press the 'Edit' softkey to change the Bandwidth, press the 4-Way key up/down to toggle between

'12.5Khz', '20.0Khz', or '25.0Khz', select '12.5Khz' for narrowband and press the 'OK' key.

Once all the programming parameters have been entered for that channel, press the 'Done' softkey

and select an other channel to program or press the 'HOME' key to exit programming mode.

Note: Do not change TX/RX DPL, or TX/RX NAC for analog channels, these parameters are used for digital channel only.

MOTOROLA XTS 2500/5000 SETTINGS AND OPTIONS

CHANGING ZONES/GROUPS

1. To change zones/groups, press the 'ZONE' softkey from the default screen/display.
2. Select the desired zone/group by scrolling right/left with the 4-Way Navigation Switch.
(or direct enter a 2 digit zone/group number via the key)
3. Once a desired zone/group is selected, press the 'HOME' button to make that zone/group active.

ENABLE/DISABLE SCAN/PRIORITY SCAN

1. To Enable Scan, place the 3-Position Rotary/Toggle Switch to the 'B' or 'C' position.
LCD will indicate the radio is in scan mode, by displaying an (Z) icon on the upper LCD.
2. To Disable Scan, place the 3-Position Rotary/Toggle Switch to the 'A' position.

Note: If no channels are in the Scan List, the radio will beep and indicate empty scan list on the LCD when scan is enabled.

ADD/REMOVE CHANNELS FROM SCAN/PRIORITY LIST

1. To add a channel to the Scan List, press the 'PROG' softkey from the default screen/display.
2. Press the 'SCAN' softkey to enter into the scan list programming mode.
3. Select the desired channel to scan with the top 16 Channel Select Knob.
4. Press the 'SEL' softkey once to enter that selected channel in the scan list.
LCD will indicate the channel is in the scan list, by displaying an (Z) icon on the upper LCD.
5. Press the 'SEL' softkey once more to enter that selected channel as the scan priority 1 channel.
LCD will indicate the radio is PRI 1 by displaying an (Z) icon on the upper part of the LCD.
6. Press the 'SEL' softkey once more to enter that selected channel as the scan priority 2 channel.
LCD will indicate the radio is PRI 2 by displaying an (Z) icon on the upper part of the LCD.
7. Press the 'SEL' softkey once more to remove the channel from the scan list completely.
Or press the 'DEL' softkey to remove the channel from the scan list.
8. Press the 'HOME' button to return to the main screen.



NIRSC MOTOROLA 2500/5000 POCKET CARD

1. Program Access

Press the 4-Way Navigation Key to the right until 'FPP' softkey is displayed.

Press the 'FPP' softkey to proceed into programming mode.

Radio will prompt for 'Password', press the 'OK' softkey to enter program mode.

Radio will display active zone, select the desired zone by pressing the 4-Way Nav. key left or right.

Once desired zone is reached, press the 'VIEW' softkey to select that zone channel information.

2. Programming a Channel (ANALOG Only)

Once the zone is selected, select the desired channel, by pressing the 4-Way Nav. key left or right.

Press the 'View' softkey to change that particular channel information.

Press the 'Edit' softkey to change the 'TX' frequency, press the 'OK' key when done.

Press the 4-Way key to the right to enter the RX frequency.

Press the 'Edit' softkey to change the 'RX' frequency, press the 'OK' key when done.

Press the 4-Way key to the right several times until 'RX Type' is displayed.

Press the 'Edit' softkey to change the RX type, press the 4-way key up/down to toggle between

'ANALOG', 'MIXED' or 'DIGITAL', select 'ANALOG' and press the 'OK' key when done.

Press the 4-way key to the right several times until 'Bandwidth' is displayed.

Press the 'Edit' softkey to change the Bandwidth, press the 4-Way key up/down to toggle between

'12.5Khz', '20.0Khz', or '25.0Khz', select '12.5Khz' for narrowband and press the 'OK' key.

Once all the programming parameters have been entered for that channel, press the 'Done' softkey

and select an other channel to program or press the 'HOME' key to exit programming mode.

Note: Do not change TX/RX DPL, or TX/RX NAC for analog channels, these parameters are used for digital channel only.

MOTOROLA XTS 2500/5000 SETTINGS AND OPTIONS

CHANGING ZONES/GROUPS

1. To change zones/groups, press the 'ZONE' softkey from the default screen/display.
2. Select the desired zone/group by scrolling right/left with the 4-Way Navigation Switch.
(or direct enter a 2 digit zone/group number via the key)
3. Once a desired zone/group is selected, press the 'HOME' button to make that zone/group active.

ENABLE/DISABLE SCAN/PRIORITY SCAN

1. To Enable Scan, place the 3-Position Rotary/Toggle Switch to the 'B' or 'C' position.
LCD will indicate the radio is in scan mode, by displaying an (Z) icon on the upper LCD.
2. To Disable Scan, place the 3-Position Rotary/Toggle Switch to the 'A' position.

Note: If no channels are in the Scan List, the radio will beep and indicate empty scan list on the LCD when scan is enabled.

ADD/REMOVE CHANNELS FROM SCAN/PRIORITY LIST

1. To add a channel to the Scan List, press the 'PROG' softkey from the default screen/display.
2. Press the 'SCAN' softkey to enter into the scan list programming mode.
3. Select the desired channel to scan with the top 16 Channel Select Knob.
4. Press the 'SEL' softkey once to enter that selected channel in the scan list.
LCD will indicate the channel is in the scan list, by displaying an (Z) icon on the upper LCD.
5. Press the 'SEL' softkey once more to enter that selected channel as the scan priority 1 channel.
LCD will indicate the radio is PRI 1 by displaying an (Z) icon on the upper part of the LCD.
6. Press the 'SEL' softkey once more to enter that selected channel as the scan priority 2 channel.
LCD will indicate the radio is PRI 2 by displaying an (Z) icon on the upper part of the LCD.
7. Press the 'SEL' softkey once more to remove the channel from the scan list completely.
Or press the 'DEL' softkey to remove the channel from the scan list.
8. Press the 'HOME' button to return to the main screen.



NIRSC THALES 25 (RACAL) POCKET CARD

1. Select the group and channel that is needed to be programmed.
2. Program Access

Press the "ENTER" key to bring up the Main Menu Screen.

Scroll up/down using the "O" and "◇" keys to select "PROGRM" and press "ENTER" key.
Enter a 6-Digit Password if requested and press "ENTER". (NIFC Password is "000000")

3. Programming a Channel (ANALOG ONLY)

- Scroll down to "CHANNEL" and press "ENTER" to start programming the channel parameters.
- Scroll down to "TAG" and press "ENTER". Change the CH name using keypad and press "ENTER".
- Scroll down to "MODE" and press "ENTER". Select "ANALOG" and press "ENTER".
- Scroll down to "BW" and press "ENTER". Select either "25Khz" or "12.5Khz" and press "ENTER".
Note: 25Khz= Wideband, 12.5Khz= Narrowband
- Scroll down to "ENCRPT" and press "ENTER". Select "DISABD" and press "ENTER".
- Scroll down to "RX" and press "ENTER". Enter the RX frequency using keypad and press "ENTER".
- Scroll down to "RX SQMD" and press "ENTER". Select either NOISE, DCS, CTCSS, or NONE.
Note: "NOISE" uses Squelch level to open RX, "DCS" use DCS code to open RX, "CTCSS" uses CTCSS to open RX, and "None" opens RX squelch at all times.
- Scroll down to "TX" and press "ENTER". Enter the TX frequency using keypad and press "ENTER".
- Scroll down to "TX SQMD" and press "ENTER". Select either DCS, CTCSS, or NONE.
Note: "DCS" sends DCS code on TX carrier, "CTCSS" sends CTCSS tone on TX carrier, and "None" sends no tones.
- Scroll down to "LO PWR" and press "ENTER". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENTER" key.
- Scroll down to "HI PWR" and press "ENTER". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENTER" key.

If screen reads "SAVE CHANNEL", select "YES". If not, channel has been saved.
Select another Channel and continue programming or press "ESC" a few times to exit.

RACAL SETTINGS AND OPTIONS

ADD/REMOVING A CH FROM SCAN LIST

1. Select a desired channel to add to Scan List using the channel select knob.
2. To Add, briefly press & release the "◇" key. An outline "□" will enclose the "C" in the display.
3. To Remove, briefly press & release the "O" key. The outline "□" will be removed from the "C".

ADD PRIORITY SCAN CHANNEL

1. Press the "ENTER" key for bring up the Main Menu, and select "PROGRM".
2. Scroll down to "SCAN" and press the "ENTER" key.
3. Scroll down to "P1" and Press "ENTER". Select channel using CH Select Knob and press "ENT".
4. Press "ESC" key a few times to return to main screen.
Top Toggle switch: C=Scan OFF, B=Scan ON, C=Priority Scan ON

CHANGE ZONES

1. Press the "ENTER" softkey to bring up the Main Menu Screen.
2. Scroll down to "SELECT" and press the "ENTER" key.
3. Scroll down to "ZONE" and press "ENTER". Scroll to the desired zone and press "ENTER", then press "ESC" softkey a few times to exit.

DISABLE/ENABLE KEYPAD

1. Press and hold the "□" softkey while pressing and holding the "ENTER" key.
Display will show "Keys Disabled", "Side Enabled".
2. Repeat the process, display shows "Keys Disabled, Side Disabled"
3. To Enable all, repeat the process on more time.

HI/LOW POWER SELECTION

1. Press the programmed power selection side button to toggle between HI and LOW Power.
Note: Third side button from the top is programmed as the HI/LOW Power Switch.



NIRSC THALES 25 (RACAL) POCKET CARD

1. Select the group and channel that is needed to be programmed.
2. Program Access

Press the "ENTER" key to bring up the Main Menu Screen.

Scroll up/down using the "O" and "◇" keys to select "PROGRM" and press "ENTER" key.
Enter a 6-Digit Password if requested and press "ENTER". (NIFC Password is "000000")

3. Programming a Channel (ANALOG ONLY)

- Scroll down to "CHANNEL" and press "ENTER" to start programming the channel parameters.
- Scroll down to "TAG" and press "ENTER". Change the CH name using keypad and press "ENTER".
- Scroll down to "MODE" and press "ENTER". Select "ANALOG" and press "ENTER".
- Scroll down to "BW" and press "ENTER". Select either "25Khz" or "12.5Khz" and press "ENTER".
Note: 25Khz= Wideband, 12.5Khz= Narrowband
- Scroll down to "ENCRPT" and press "ENTER". Select "DISABD" and press "ENTER".
- Scroll down to "RX" and press "ENTER". Enter the RX frequency using keypad and press "ENTER".
- Scroll down to "RX SQMD" and press "ENTER". Select either NOISE, DCS, CTCSS, or NONE.
Note: "NOISE" uses Squelch level to open RX, "DCS" use DCS code to open RX, "CTCSS" uses CTCSS to open RX, and "None" opens RX squelch at all times.
- Scroll down to "TX" and press "ENTER". Enter the TX frequency using keypad and press "ENTER".
- Scroll down to "TX SQMD" and press "ENTER". Select either DCS, CTCSS, or NONE.
Note: "DCS" sends DCS code on TX carrier, "CTCSS" sends CTCSS tone on TX carrier, and "None" sends no tones.
- Scroll down to "LO PWR" and press "ENTER". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENTER" key.
- Scroll down to "HI PWR" and press "ENTER". Select either "0.1", "0.5", "1.0", "2.0" or "5.0" and press the "ENTER" key.

If screen reads "SAVE CHANNEL", select "YES". If not, channel has been saved.
Select another Channel and continue programming or press "ESC" a few times to exit.

RACAL SETTINGS AND OPTIONS

ADD/REMOVING A CH FROM SCAN LIST

1. Select a desired channel to add to Scan List using the channel select knob.
2. To Add, briefly press & release the "◇" key. An outline "□" will enclose the "C" in the display.
3. To Remove, briefly press & release the "O" key. The outline "□" will be removed from the "C".

ADD PRIORITY SCAN CHANNEL

1. Press the "ENTER" key for bring up the Main Menu, and select "PROGRM".
2. Scroll down to "SCAN" and press the "ENTER" key.
3. Scroll down to "P1" and Press "ENTER". Select channel using CH Select Knob and press "ENT".
4. Press "ESC" key a few times to return to main screen.
Top Toggle switch: C=Scan OFF, B=Scan ON, C=Priority Scan ON

CHANGE ZONES

1. Press the "ENTER" softkey to bring up the Main Menu Screen.
2. Scroll down to "SELECT" and press the "ENTER" key.
3. Scroll down to "ZONE" and press "ENTER". Scroll to the desired zone and press "ENTER", then press "ESC" softkey a few times to exit.

DISABLE/ENABLE KEYPAD

1. Press and hold the "□" softkey while pressing and holding the "ENTER" key.
Display will show "Keys Disabled", "Side Enabled".
2. Repeat the process, display shows "Keys Disabled, Side Disabled"
3. To Enable all, repeat the process on more time.

HI/LOW POWER SELECTION

1. Press the programmed power selection side button to toggle between HI and LOW Power.
Note: Third side button from the top is programmed as the HI/LOW Power Switch.



NIRSC RELM KING DPH/DPHx POCKET CARD

1. Select the group and channel that is needed to be programmed.
Select a group by pressing the "#" key followed by a 2-digit group and press the "ENT" key.
2. Program Access
 - Insert programming plug into radio side connector.
 - Press and hold the master switch on plug.
 - While pressing the master switch, press and hold the "FCN" key for about 3 secs. LCD should display "-- --ID". (**NIRSC radio password is "000000"**)
 - Enter the SIX-DIGIT password and press the "ENT" key to enter program mode.
If the correct password was entered, the LCD will display "PRG CH 00".
3. Programming a Channel (**ANALOG ONLY**)
From the "PRG CH00" screen, press a desired 2-digit channel number to program via the keypad.
 - "PRG CH 01".....Channel 01 Settings is currently selected.
 - "PRG CH 01N".....Press # to toggle between Narrow/Wide Band and press the "FCN" key.
 - "PRG RX 170.47500".....Press "CLR" and enter new valid "RX Frequency" and press the "ENT" key.
 - "PRG RX MODE-A".....Change RX Mode with "PRI" key to "A" for Analog and press the "ENT" key.
 - "PRG RX CG 000.0".....Press "CLR" and enter new "RX Code Guard" and press "ENT" key.
 - "PRG RX IDCG, NAC0659".....RX NAC, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG RX ID SQL-NRM".....Change "Squelch" with "PRI" key to "NRM" and press the "ENT" key.
 - "PRG TX 170.47500".....Press "CLR" and enter new valid "TX Frequency" and press the "ENT" key.
 - "PRG TX MODE-A".....Change TX Mode with "PRI" key to "A" for Analog and press the "ENT" key.
 - "PRG TX CG 103.5".....Press "CLR" and enter new "TX Code Guard" and press the "ENT" key.
 - "PRG TX IDCG, NAC0659".....TX NAC, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG ID TG00001".....Talk Group ID, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG CHAN 1".....Channel Label, press "ENT" to bring up the first programming field (PRG CH 01N).
4. Channel Programming is complete. At this point the user may select another channel to program or exit the program mode by cycling power to the radio.

DPH SETTINGS & OPTIONS

ADD Channel to Scan List

Select a desired CH and press the "ENT" key. "SCN" will appear in upper display.

DELETE Channel from Scan List

Select a desired CH and press the "CLR" key. "SCN" will be removed from the upper display.

Note: Scan must be disabled to add/delete CH's from scan list.

ADD PRI Scan Channel

Select CH, Press "PRI" key, PRI will appear in display.

Priority Mode B, C or D must be enabled to change PRI Channel via the keypad.

HI/LOW Power Selection

LOW Power: Toggle the LO/HI Switch to the up position. (**Towards the back of the radio**)

HI Power: Toggling the LO/HI Switch to the down position. (**Towards the front of the radio**)

TX User Selectable Tones.

NIRSC Radios TX User Tones are Disabled.

Disable/Enable Keypad

To Disable, press and hold "FCN" key.

To Enable, press and hold "FCN" key.

NIRSC DPH CH 00 Program Guide

"P000000".....Group Password Assignment
 "0000000".....Group ANI/DTMF ID
 "120 SEC".....Transmit Time-Out Timer
 "2.0SEC".....Scan Delay Time
 "PR1 OFF".....Priority 1 Channel Assignment
 "PR2 OFF".....Priority 2 Channel Assignment

Group 1: (NIRSC Default is 1-12345)

Battery Saver Disabled.....1-12345
 Group Scan.....1-12345
 TX ON PRI 1.....1-12345
 Priority Key Lockout.....1-12345
 Scan List Lockout.....1-12345

Group 2: (NIRSC Default is 2-12345)

User Code Guard Enabled.....2-12345
 Busy Channel Indicator Enabled.....2-12345
 Busy Channel Lockout Enabled.....2-12345
 Busy Channel Lockout/Override.....2-12345
 ANI Enabled.....2-12345
 Manual DTMF Encoder.....2-12345
 Manual DTMF/ANI Encoder.....2-12345

Group 3: (NIRSC Default is 3-12345)

Reserved.....3-12345
 Reserved.....3-12345
 LCD Backlight ON Display Change.....3-12345
 LCD Backlight ON Key Press.....3-12345
 Alphanumeric Mode Enabled.....3-12345
 "LITE OFF".....Back Light Duration
 "GROUP XX".....Group Label

Bold= Flashing



NIRSC RELM KING DPH/DPHx POCKET CARD

1. Select the group and channel that is needed to be programmed.
Select a group by pressing the "#" key followed by a 2-digit group and press the "ENT" key.
2. Program Access
 - Insert programming plug into radio side connector.
 - Press and hold the master switch on plug.
 - While pressing the master switch, press and hold the "FCN" key for about 3 secs. LCD should display "-- --ID". (**NIRSC radio password is "000000"**)
 - Enter the SIX-DIGIT password and press the "ENT" key to enter program mode.
If the correct password was entered, the LCD will display "PRG CH 00".
3. Programming a Channel (**ANALOG ONLY**)
From the "PRG CH00" screen, press a desired 2-digit channel number to program via the keypad.
 - "PRG CH 01".....Channel 01 Settings is currently selected.
 - "PRG CH 01N".....Press # to toggle between Narrow/Wide Band and press the "FCN" key.
 - "PRG RX 170.47500".....Press "CLR" and enter new valid "RX Frequency" and press the "ENT" key.
 - "PRG RX MODE-A".....Change RX Mode with "PRI" key to "A" for Analog and press the "ENT" key.
 - "PRG RX CG 000.0".....Press "CLR" and enter new "RX Code Guard" and press "ENT" key.
 - "PRG RX IDCG, NAC0659".....RX NAC, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG RX ID SQL-NRM".....Change "Squelch" with "PRI" key to "NRM" and press the "ENT" key.
 - "PRG TX 170.47500".....Press "CLR" and enter new valid "TX Frequency" and press the "ENT" key.
 - "PRG TX MODE-A".....Change TX Mode with "PRI" key to "A" for Analog and press the "ENT" key.
 - "PRG TX CG 103.5".....Press "CLR" and enter new "TX Code Guard" and press the "ENT" key.
 - "PRG TX IDCG, NAC0659".....TX NAC, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG ID TG00001".....Talk Group ID, DIGITAL ONLY, press the "ENT" key to skip to next field.
 - "PRG CHAN 1".....Channel Label, press "ENT" to bring up the first programming field (PRG CH 01N).
4. Channel Programming is complete. At this point the user may select another channel to program or exit the program mode by cycling power to the radio.

DPH SETTINGS & OPTIONS

ADD Channel to Scan List

Select a desired CH and press the "ENT" key. "SCN" will appear in upper display.

DELETE Channel from Scan List

Select a desired CH and press the "CLR" key. "SCN" will be removed from the upper display.

Note: Scan must be disabled to add/delete CH's from scan list.

ADD PRI Scan Channel

Select CH, Press "PRI" key, PRI will appear in display.

Priority Mode B, C or D must be enabled to change PRI Channel via the keypad.

HI/LOW Power Selection

LOW Power: Toggle the LO/HI Switch to the up position. (**Towards the back of the radio**)

HI Power: Toggling the LO/HI Switch to the down position. (**Towards the front of the radio**)

TX User Selectable Tones.

NIRSC Radios TX User Tones are Disabled.

Disable/Enable Keypad

To Disable, press and hold "FCN" key.

To Enable, press and hold "FCN" key.

NIRSC DPH CH 00 Program Guide

"P000000".....Group Password Assignment
 "0000000".....Group ANI/DTMF ID
 "120 SEC".....Transmit Time-Out Timer
 "2.0SEC".....Scan Delay Time
 "PR1 OFF".....Priority 1 Channel Assignment
 "PR2 OFF".....Priority 2 Channel Assignment

Group 1: (NIRSC Default is 1-12345)

Battery Saver Disabled.....1-12345
 Group Scan.....1-12345
 TX ON PRI 1.....1-12345
 Priority Key Lockout.....1-12345
 Scan List Lockout.....1-12345

Group 2: (NIRSC Default is 2-12345)

User Code Guard Enabled.....2-12345
 Busy Channel Indicator Enabled.....2-12345
 Busy Channel Lockout Enabled.....2-12345
 Busy Channel Lockout/Override.....2-12345
 ANI Enabled.....2-12345
 Manual DTMF Encoder.....2-12345
 Manual DTMF/ANI Encoder.....2-12345

Group 3: (NIRSC Default is 3-12345)

Reserved.....3-12345
 Reserved.....3-12345
 LCD Backlight ON Display Change.....3-12345
 LCD Backlight ON Key Press.....3-12345
 Alphanumeric Mode Enabled.....3-12345
 "LITE OFF".....Back Light Duration
 "GROUP XX".....Group Label

Bold= Flashing