

# KING DPH/DPHx

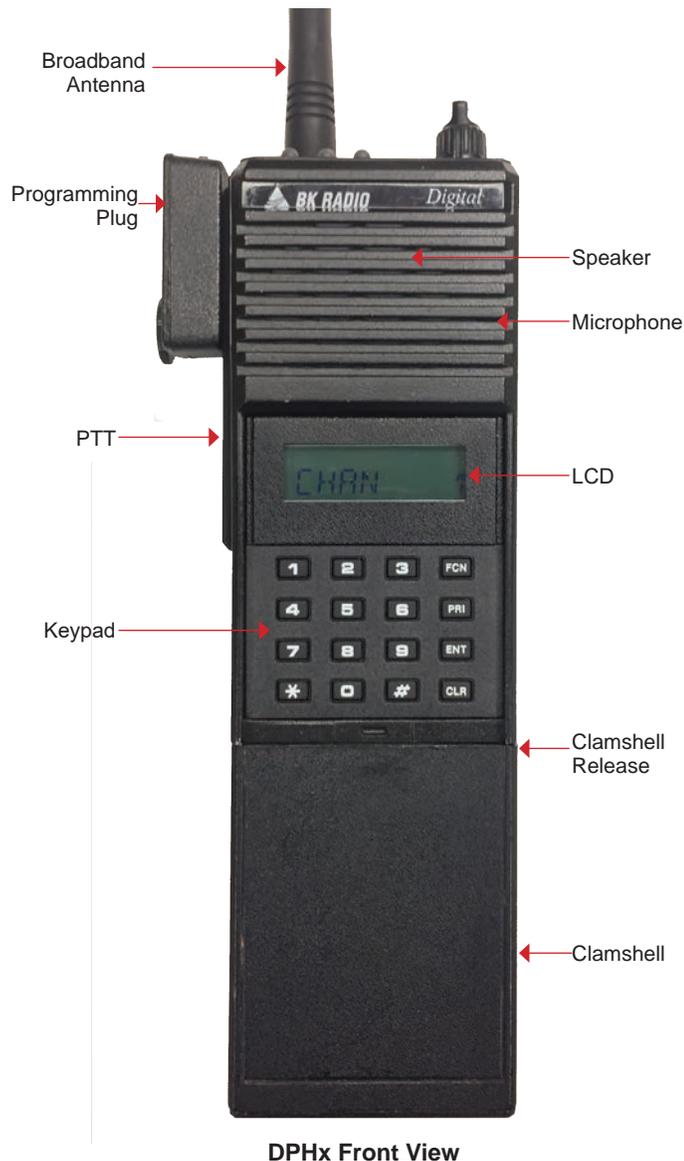


# DPH/DPHx PORTABLE RADIO BASIC OPERATION & CONTROLS

1. Turn power ON by turning the ON/OFF Volume Knob clockwise.  
*Note: A beep indicates the radio is operational. The LCD will briefly indicate the current group before indicating the current channel.*
2. Select a group number by pressing the "#" key and entering a 2-digit number followed by the "ENT" key.
3. Select a channel by turning the **Channel Select Knob** to one of the 16 available positions.
4. Adjust the volume by turning the **Squelch Knob clockwise** to open the squelch and setting the volume to a desired level.
5. Adjust the Squelch by turning the Squelch Knob counterclockwise until the squelch closes.  
*Note: This is the Threshold Squelch Setting.*  
*Turn the squelch Knob fully counterclockwise into the detent position to place the RX in Code Guard. RX must have a tone programmed in order for RX Code Guard to function properly. Putting the RX in Code Guard, will enable the RX not to open squelch unless the it receives the correct RX tone.*

## The radio is now ready to RECEIVE on the selected group and channel.

6. To transmit, press and hold the Push-To-Talk (PTT) button on the side of the radio.  
*Note: The Transmit Indicator Light should glow red while transmitting. If not, the battery may be low or the channel is RX only or busy.*
7. 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.*
8. Release the PTT to stop transmitting and receive incoming transmissions.



# DPH/DPHx PORTABLE RADIO SETTINGS/OPTIONS

## ADD/REMOVE CHANNELS FROM SCAN LIST

To **ADD channel to Scan List**, select a channel to scan with the channel select knob and press the "ENT" key.

- LCD will display "SCN" in the upper section, indicating that the current displayed channel is in the scan list. (See Figure 1)

To **REMOVE channel from Scan List**, select the channel to remove with the channel select knob and press the "CLR" key.

- "SCN" will be removed from the upper section of the LCD.

*Note: Scan must be disabled in order to add or remove channels from the scan list, by toggling the "SCAN" and "PRI" toggle switches in the down position. (Toward the front of the radio)*

## ADD PRIORITY SCAN CHANNEL NIICD default is set to all PRI off.

To **select a channel as a Priority Scan Channel**, select a channel and press the "PRI" key. (See Figure 2)

- LCD will display "PR" in the upper section, indicating that the current displayed channel is now the Priority 1 Channel.

*Note: Scan must be disabled in order to add or remove the Priority 1 Channel, by toggling the "SCAN" and "PRI" toggle switches in the down position. (Toward the front of the radio)  
Priority 2 Channel can only be changed in the "CH 00" parameters. (See "CH 00" Settings)*

*Note: Enabling PRI Scan will only scan the Priority Channel(s). In order to scan the scan list channels and the Priority Channel(s), both the Scan and PRI Toggle switches must be enabled.*

## ENABLE/DISABLE SCAN/PRIORITY SCAN

To **Enable Scan**, by toggling the **Scan Toggle Switch** to the up position. (Toward the back of the radio)

- LCD will indicate scan is enabled by flashing "-- --" in the right side of the display if alphanumeric mode is disabled. (See Figure 3)

or

- LCD will indicate scan is enabled by flashing "SCN" in the upper part of the display if alphanumeric mode is enabled.

To **Disable Scan**, by toggling the Scan Toggle Switch to the down position. (Toward the front of the radio)

To **Enable Priority Scan**, by toggling the **PRI Toggle Switch** to the up position. (Toward the back of the radio)

- LCD will indicate Priority Scan is enabled by flashing "-- --" in the right side of the display and with a "PR" icon in the top portion of the display if alphanumeric mode is disabled. (See Figure 4)

or

- LCD will indicate Priority Scan is enabled by flashing "SCN" in the upper part of the display if alphanumeric mode is enabled.

To **Disable Priority Scan**, by toggling the **PRI Toggle Switch** to the down position. (Toward the front of the radio)

*Note: Depending on what type of Priority Scan Mode is enabled, the LCD will display and operate differently for each priority mode. Check the priority mode in the "CH 00" Group Settings.  
NIICD Default is set to Priority Mode A, Priority Channels follows the selected channel.*

## CHANGING GROUPS

To **Change Groups**, press the "#" key followed with the 2-digit number of the desired group and press "ENT" or wait 3 seconds. (See Figure 5)

*Note: All DPH/DPHx NIICD model radios have a 25 group capacity.  
Groups 1-5 contain the Standard NIICD Frequencies.*

## TX USER SELECTABLE TONES

To **Enable Selectable Tone**, press one of number keys (1-9) to select a pre programmed TX User Selectable Tone.

- Display will indicate a TX User Selectable Tone is enabled by displaying the "CG" icon in the top portion of the LCD.
- If Alphanumeric Mode is Disabled, display will also indicate the selected TX User Tone. (See Figure 6)

To **Disable Selectable Tone**, press the "0" key on the keypad.

*Note: NIICD default is TX User Selectable Tones Disabled and can be enabled through the "CH 00" functions.*

## HI/LOW POWER SETTINGS

To **Select Low Power**, toggle the LO/HI Toggle Switch to the up position. (Toward the back of the radio)

To **Select High Power**, toggle the LO/HI Toggle Switch to the down position. (Toward the front of the radio)

*Note: NIICD Low Power setting is set to 2.0 Watts, High Power setting is set to 5.0 Watts.  
(Current draw dependent)*

## ENABLE/DISABLE KEYPAD

To **Disable keypad**, press and hold the "FNC" key until the LCD displays "LOCKED". (See Figure 7)

To **Enable keypad**, press and hold the "FNC" key until the LCD displays "UNLOCKED". (See Figure 8)

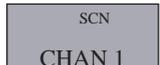


Figure 1



Figure 2

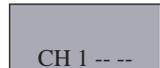


Figure 3



Figure 4



Figure 5

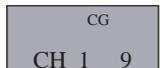


Figure 6



Figure 7



Figure 8

# DPH/DPHx PORTABLE RADIO ANALOG PROGRAMMING GUIDE

1. Turn on the radio and select the desired group before accessing the program mode.
2. **Access Program Mode** (See Figure 1)
  - Insert a programming plug into the side accessories connector of the radio.
  - **Press and hold** the red Master Switch on the programming plug.
  - Simultaneously **press and hold** the "FCN" key for approximately three seconds until the LCD displays "-- -- ID".
  - Enter a valid password. *NIICD default password is set to "000000"*
  - Press the "ENT" key to proceed into the programming mode.
  - If the correct password was entered, the LCD displays "CH 00". (See Figure 2)
3. From the "CH 00" mode, **select a 2-digit channel number (01-16)** to program using the keypad.  
*Note: Once a channel is entered, pressing the "FNC" key will scroll through that particular channel parameters.*
4. **Channel Bandwidth Setting**, press the "# " key to toggle between Wide-Band and Narrow-Band. (See Figure 3)
  - Once the Bandwidth is set, press the "FCN" key to scroll to the next programming parameter.  
*Note: The "N" indicates that the channel is set for Narrow-Band operation, No indication for Wide-Band operation.*
5. **Channel Receive Frequency**, press the "CLR" key to clear the current frequency and enter a valid **VHF RX frequency** and press the "ENT" key to save the **RX frequency** and scroll to the next parameter. (See Figure 4)
6. **Channel Receive Mode**, press the "PRI" key to toggle between "A", "D", or "M". Select "A" for **Analog Mode** and press the "ENT" key to save the **RX mode** and scroll to the next parameter. (See Figure 5)  
*Note: A=Analog Channel, D=Digital Channel, and M=Mixed Mode Channel*
7. **Channel Receive Code Guard**, press the "CLR" key to clear the tone and enter a valid tone using the keypad and press the "ENT" key to save the **RX Tone** and scroll to the next parameter. (See Figure 6)  
*Note: Enter "000.0" for no tone.*
8. **Channel Receive NAC**, used for programming the RX Network Access Code.  
This is a **Digital** Channel Function, press the "ENT" key to skip to the next programming parameter.
9. **Channel Squelch Mode**, press the "PRI" key to toggle between "NRM", or "SEL". Select "NRM" for analog settings and press the "ENT" key to save the Squelch Mode and scroll to the next parameter. (See Figure 7)  
*Note: "SEL" is used only in Digital or Mixed Mode to use Talk Groups or Individual Call Functions.*
10. **Channel Transmit Frequency**, press the "CLR" key to clear the current frequency and enter a valid **VHF TX frequency** and press the "ENT" key to save the **TX Frequency** and scroll to the next parameter. (See Figure 8)
11. **Channel Transmit Mode**, press the "PRI" key to toggle between "A", "D", or "M". Select "A" for Analog Mode and press the "ENT" key so save the TX Mode and scroll to the next parameter. (See Figure 9)  
*Note: A=Analog Channel, D=Digital Channel, and M=Mixed Mode Channel*
12. **Channel Transmit Code Guard**, press the "CLR" key to clear the current tone and enter a valid tone using the keypad and press the "ENT" key to save the **TX Tone** and scroll to the next parameter. (See Figure 10)  
*Note: Enter "000.0" for no tone.*
13. **Channel Transmit NAC**, used for programming the TX Network Access Code.  
This is a **Digital** Channel Function, press the "ENT" key to scroll to the next programming parameter.
14. **Channel Talk Group ID**, used for programming the TX Talk Group ID.  
This is a **Digital** Channel Function, press the "ENT" key to scroll to the next programming parameter.
15. **Channel Label**, press the "ENT" key to keep name/label and finish programming the channel or press the "CLR" key to change the name/label for that channel. (See figure 11)  
**Changing Channel Label**
  - Press the "CLR" key to clear the label.
  - Press the "PRI" key to scroll through available Alphanumeric Characters.
  - Press the "FCN" key to enter a character and shift to the left for the next character.
  - Repeat the process until desired name/label is entered and press the "ENT" key when complete.*Note: LCD is an 8 character display. NIICD default is set to display the numeric characters only in the "CH 00" parameters.*
16. Once the label is entered and saved, the program will bring the first channel parameter up, channel programming is complete and saved at this point. The user may select another channel to program by starting on **step 3** or exit the program mode by cycling power to the radio.



PRG  
--- ID

Figure 1



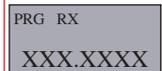
PRG  
CH 00

Figure 2



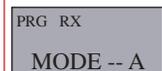
PRG  
CH 01N

Figure 3



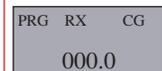
PRG RX  
XXX.XXXX

Figure 4



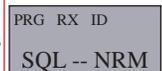
PRG RX  
MODE -- A

Figure 5



PRG RX CG  
000.0

Figure 6



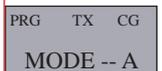
PRG RX ID  
SQL -- NRM

Figure 7



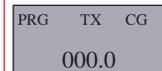
PRG TX  
XXX.XXXX

Figure 8



PRG TX CG  
MODE -- A

Figure 9



PRG TX CG  
000.0

Figure 10



PRG  
CMD 8

Figure 11

# DPH/DPHx PORTABLE RADIO "CH 00" SETTINGS

1. Select a **group** you wish to program and Access the **Program Mode** to enter the "CH 00" Settings. *(See Figure 1)*  
*(See Access Program Mode)*  
*Note: Once "CH 00" is displayed, press the "FNC" key to scroll to the first "CH 00" parameter.*
2. **Group Password**, press the "ENT" and advance to the next programming parameter. *(See Figure 2)*  
*Note: NIICD does not recommend changing the group password. NIICD default password is set to "P000000"*
3. **Group Automatic Numeric Identification** parameter (ANI): This is used as either a radio management number or transmitted as a DTMF tone. Press the "ENT" or "FNC" key to advance to the next parameter.  
*NIICD default is set to "0000000" (See Figure 3)*
4. **Transmit Tim-Out Timer** (TOT) duration: To change the TOT, press the "PRI" key to increase the TOT duration and press the "ENT" to store the value and advance to the next parameter.  
*NIICD default is set to "120 SEC", A TOT value of 0.0 Seconds, disables the TOT. (See Figure 4)*
5. **Scan Delay Time**: To change the Scan Delay Time, press the "PRI" key to increase the duration and press the "ENT" key to store the value and advance to the next parameter.  
*NIICD default is set to "2.0 SEC" (See Figure 5)*
6. **Priority 1 Channel**: To enable a **Priority 1 Channel**, press the "PRI" key to select a channel or turn OFF the function and press the "ENT" key to store the value and advance to the next parameter.  
*NIFC Default is set to "OFF" (See Figure 6)*  
*Note: Priority 1 Channel can be programmed as a fixed channel, selected by the channel select knob, or OFF. If the PRI 1 is set as fixed, it can be changed through the front keypad by pressing the "PRI" key.*
7. **Priority 2 Channel**: To enable the **Priority 2 Channel**, press the "PRI" key to select a channel or turn OFF the function and press the "ENT" key to store and advance to the next field.  
*NIFC Default is set to "OFF" (See Figure 7)*  
*Note: Priority 2 Channel can only be changed via the "CH 00" parameters.*
8. "Ch 00" Group One, Two, Three Functions *(See Figure 8)*  
*Note: The group functions can be enabled or disabled by pressing the number key corresponding to that function.*

## **CH 00 Group 1 Functions** *NIICD default is "1-12345" (See Figure 8)*

- 1-12345.....**Battery Saver Inhibit** (Disables the Battery Saver Function for current drain on battery life.)
- 1-12345.....**Group Scan** (Enables the current group to be scanned while in Group Scan Mode.)
- 1-12345.....**TX on PRI 1** (Enables transmission on PRI 1 when PRI Scan is Enabled.)
- 1-12345.....**Priority 1 Lock** (Enables the Lock out of the "PRI" key, so user can not change the Priority 1 Channel.)
- 1-12345.....**Scan List Lock** (Enables the Scan List Lock out, so user can not add/remove channels from the scan list.)

## **CH 00 Group 2 Functions** *NIICD default is "2-12345" (See Figure 9)*

- 2-12345.....**User CH Code Guard** (Enables keypad to independently select a Channel Code Guard value from programmed channels.)
- 2-12345.....**Busy Channel Indicator** (Yellow LED illuminates when signal is received on selected channel.)
- 2-12345.....**Busy Channel Lockout** (Yellow LED illuminates and PTT is disabled when a signal is received on selected channel.)
- 2-12345.....**Busy Channel Lockout/Over-ride** (Same as Busy Channel Lockout, but PTT can be activating the Squelch Code Guard.)
- 2-12345.....**ANI** (Enables the ANI ID number to be transmitted with each press of the PTT as a DTMF tone.)
- 2-12345.....**Manual DTMF Encoder** (Enables keypad for manual DTMF operation.)
- 2-12345.....**Manual DTMF/ANI Encoder** (Enables the ANI ID number to be transmitted only after the "ENT" key is pressed during TX.)

## **CH 00 Group 3 Functions** *NIICD default is "3-12345" (See Figure 10)*

- 3-12345.....**Reserved**
- 3-12345.....**Reserved**
- 3-12345.....**LCD Back light ON Display Change** (LCD back light will illuminate each time the display receives an input.)
- 3-12345.....**LCD Back light ON Key Press** (LCD back light will illuminate each time a key is pressed.)
- 3-12345.....**Alphanumeric Mode** (LCD will display Alphanumeric Characters.)

9. **Back Light Duration**: To change the back light duration, press the "PRI" key to select an available setting and press the "ENT" key to store the value and advance to the next parameter.  
*NIICD default is "OFF" (See Figure 11)*

10. **Group Label**: Press the "ENT" key to advance back to the "CH 00" starting point. *(See Figure 12)*  
At this point, pressing the "FNC" key repeatedly will scroll down each value parameter of the "CH 00" settings for that group.  
If no changes are needed, exit the program mode by cycling power to the radio or continue with channel programming.

PRG  
CH 00

Figure 1

PRG  
P000000

Figure 2

PRG ID  
0000000

Figure 3

PRG TX  
160 SEC

Figure 4

PRG SCN  
2.0 SEC

Figure 5

PRG  
PRI 1 OFF

Figure 6

PRG  
PRI 2 OFF

Figure 7

PRG  
1 -- 12345

Figure 8

PRG  
2 -- 12345

Figure 9

PRG  
3 -- 12345

Figure 10

PRG  
LITE OFF

Figure 11

PRG  
GROUP XX

Figure 12

# DPH/DPHx PORTABLE RADIO CLONING GUIDE

- Assure that the Master and Clone radios are off.
  - Attach the Master end of the cloning cable to the side connector of the Master radio.
  - Attach the Clone/Slave end of the cloning cable to the side connector of the radio being cloned.
- Turn both radios on.
  - Assure each radio is in the corresponding group before continuing with the cloning process.
- Access the Programming Mode on the Master radio by holding down the Master Switch and simultaneously pressing the "FCN" key on the Master radio until the LCD displays (-- -- ID). *(See Figure 1)*
- Enter a valid password and press the "ENT" key. *(NIICD default Password is set to "000000")*
  - The LCD will display "CH 00" if the correct password was entered. *(See Figure 2)*
- Press the "\*" key on the Master radio keypad.
  - The LCD will flash "PROG", indicating that the radio is ready to download the clone. *(See Figure 3)*
- Press the "FCN" key to download the clone to the clone/slave radio.
  - If the clone was successful, the Master radio will resume flashing "PROG" on the display.
  - If the clone was not successful, the Master radio will flash "FAIL" followed by continuous beeps. *(See Figure 4)*

*Note: To stop "FAIL" mode, press the "CLR" key, turn off the radios, and start the cloning process again.*

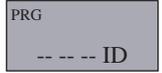


Figure 1



Figure 2



Figure 3



Figure 4

*When the Master radio downloads to a clone, the Scan List and Priority Channel designations are also downloaded to the clone radio. Group Password are also downloaded between DPH and GPH Model radios, NIICD recommends not modifying the Group Password when programming radios.*



**DPHx Cloning Connections**

# KING KNG-P150s



# KNG P150s PORTABLE RADIO BASIC OPERATION & CONTROLS

1. Turn the power **ON** by turning the "**VOL**" Knob clockwise.
  - The LCD will indicate the current Zone and Channel label.
2. Select a zone number by pressing the "**Zone**" softkey. Enter the zone number via the keypad and press the "**OK**" softkey.  
**OR**  
Press the "**Zone**" softkey then press the **UP/Down** soft keys to highlight desired zone and press the "**OK**" softkey.
3. Select a channel by turning the **Channel Select Knob** to one of the 16 available positions.
4. Adjust the volume by pressing the "**Monitor**" button once to open the squelch and set the volume to desired level, press the "**Monitor**" key once more to close the Squelch.

**The radio is now ready to operate on the selected group and channel.**

6. To transmit, press and hold the Push-To-Talk (PTT) button on the side of the radio.  
*Note: The Transmit Indicator Light should glow red while transmitting.  
If not, the battery may be low or the channel is RX only or busy.*
7. 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.*
8. Release the **PTT** to stop transmitting and receive incoming transmissions.



**KNG P150s Front View**



**KNG P150s Top View**

# KNG P150s PORTABLE RADIO SETTINGS/OPTIONS

## CHANGING ZONES

- **To change groups**, press the "Zone" softkey.
- Enter the zone number via the key pad and press the "ENT" softkey. *(See Figure 1 & 2)*  
**OR**
- Press the "Zone" softkey. Press the **UP/Down** keypad keys to desired zone and press the "ENT" softkey. *(See Figure 1 & 2)*

## ENABLING/DISABLING SCAN *(See Figure 1)*

- **To Enable Scan** - Toggle the "Scan Toggle" switch towards the front of the radio. The display will indicate the radio is in Scan Mode by displaying a flashing "SCN" icon on the LCD.
- **To Disable Scan** - Toggle the "Scan Toggle" switch towards the back of the radio.

## ENABLING/DISABLING PRIORITY SCAN

- **To Enable Priority Scan** - Toggle the "PRI Toggle" switch towards the front of the radio. The display will indicate the radio is in Priority Scan Mode by displaying a flashing "SCN" icon on the LCD.
- **To Disable Priority Scan** - Toggle the "PRI Toggle" switch towards the back of the radio.

## ADD/REMOVE CHANNEL FROM SCAN LIST *(See Figure 3)*

- **To Add a Channel to Scan List** - Press the "Menu" softkey, scroll down to "Scan List" using the UP/DOWN softkeys and press the "ENT" softkey.
- Select the channel to scan using the UP/DOWN softkeys, then press the "+/-" softkey to add or delete the channel from the scan list.  
*Note: An "+" next to the select channel indicates the Channel is in the Scan List. Press the "ESC" softkey twice to return to normal operation.*
- **To Remove a Channel from Scan List** - Repeat the process and select "-".

## TX POWER SELECTION *(See Figure 4)*

- **To Enable Low Power** - Press the "LPW" softkey to enable low power setting. Once enabled, a black background around the "LPW" display will be outlined.
- **To Enable High Power** - Press the "LPW" softkey to disable low power setting.

## LOCKING KEYPAD

- **To Lock Keypad** - Turn the top bezel button located on the top of the radio to the "∅" position. If any keys on the front panel are pushing while the keypad is locked, the LCD will display the following "Keys Locked" message. *(See Figure 5)*
- **To Unlock the Keypad** - Turn the top bezel button to the "○" position.

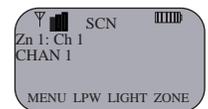


Figure 1

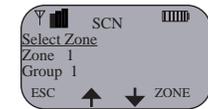


Figure 2

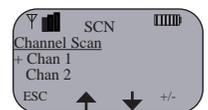


Figure 3

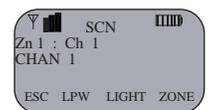


Figure 4

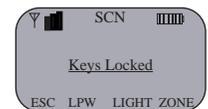


Figure 5

# KNG P150s PORTABLE RADIO ANALOG PROGRAMMING GUIDE

1. Turn on the radio.
2. Access the Program Mode *(See Figure 1 and 2)*
  - Press the "Menu" softkey.
  - Scroll down using the **Up/Down** softkeys to highlight "Keypad Prog" and press the "ENT" softkey.
  - Highlight "Keypad Prog" and the press the "ENT" softkey.
  - Enter the 7-digit NIICD password and press the "ENT" softkey. *NIICD password is set to "000000"*
3. Once in Program Mode, scroll **up/down** to highlight "Channels" and press "ENT".
4. Scroll to the desired Zone/Group using the **up/down** softkeys and press "ENT".
5. Scroll to the desired Channel using the **up/down** softkeys and press "ENT".
6. Highlight "Rx Freq" and press "ENT". *(See Figure 6)*
  - Press the "CLR" softkey and enter a valid **RX Frequency** and press "ENT".
7. Highlight "Rx Mode" and press "ENT", highlight "Analog" and press "ENT". *(See Figure 7)*
8. Highlight "Rx Guard" and press "ENT". *(See Figure 8)*
  - Press the "CLR" softkey and enter a valid **RX Tone** and press "ENT".
  - Note: "RX NAC" is a Digital function and should be skipped while programming an Analog channel.*
  - Note: "Squelch Mode" can not be changed while programming an Analog Channel.*
9. Highlight "Tx Freq" using the up/down softkeys and press "ENT". *(See Figure 9)*
  - Press the "CLR" softkey and enter a valid **TX Frequency** and press "ENT".
10. Highlight "Tx Mode" and press "ENT", highlight "Analog" and press "ENT". *(See Figure 10)*
11. Highlight "Bandwidth" and press "ENT", highlight "12.5 Khz" for Narrowband and press "ENT". *(See Figure 11)*
12. Highlight "Tx Guard" and press "ENT". *(See Figure 12)*
  - Press the "CLR" softkey and enter a valid **TX Tone** and press "ENT".
  - Note: "TX NAC" is a Digital function and should be skipped while programming an Analog channel.*
  - "TGID" is a Digital function and should be skipped while programming an Analog channel.*
13. Highlight "Secure Mode" and press "ENT", highlight "Clear" and press "ENT". *(See Figure 13)*
  - Note: "Key" and "Key Lock" options or for Encryption only, and should be skipped while programming an Analog Channel.*
14. Highlight "Low Pow Lock" and press "ENT", highlight "OFF" and press "ENT". *(See Figure 14)*
  - Note: Selecting "ON" will enable low power at all times for that particular channel.*
15. Highlight "Plist Disable" using the up/down softkey and press "ENT", select "OFF" and press "ENT".
16. Press "ESC" once and select another channel to program repeat steps 6 through 15, or press "ESC" several times to exit the programming mode.

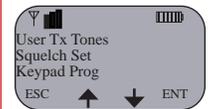


Figure 1

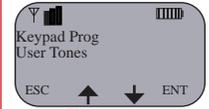


Figure 2

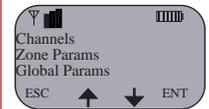


Figure 3

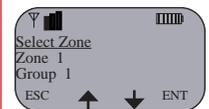


Figure 4

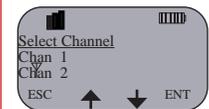


Figure 5



Figure 6



Figure 7



Figure 8

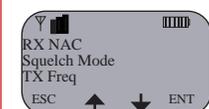


Figure 9



Figure 10



Figure 11



Figure 12

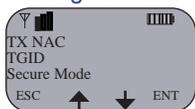


Figure 13

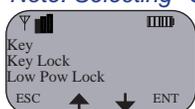


Figure 14

# KNG P150s PORTABLE RADIO CLONING GUIDE

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on.  
*Note: Determine which group needs to be cloned from the Source radio, and to which group on the target radio will be cloned.*
3. Place the Master radio in Cloning Mode by pressing the "Menu" softkey, highlight "Cloning" and press "ENT".  
**(See Figure 1)**
4. Select the type of clone to be preformed by the Master radio. **(See Figure 2)**
  - **Active Zone** - Information from the current selected zone in the source radio will be sent to the current active zone on the target radio.
  - **Zone-to-Zone** - User selects the source and target zones to be cloned.
  - **Entire Radio** - All information from the Source radio will be cloned to the target radio.  
*Note: Radios programmed with blocked zones will not receive cloning information when a Entire Radio clone is selected. Entire radio cloning transfers all radio information except the following:*
    - Radio Serial Number
    - P25 Identification Number
    - Encryption Keys
    - Passwords

**Active Zone: (See Figure 2)**

  - Highlight "Active Zone" and press "ENT".

**Zone-to-Zone: (See Figure 3)**

  - Highlight "Zone-to-Zone" and press "ENT".
  - Scroll and select the "Source Zone" and press "ENT".
  - Scroll and select the "Destination Zone" and press "ENT".

**Entire Radio: (See Figure 4)**

  - Highlight "Entire Radio" and press "ENT".
5. Once the cloning is complete press "ESC" on the Source radio for normal operation. **(See Figure 5)**  
*Note: If cloned failed, its possible that the Target zone is blocked from accepting any incoming clone. (See Figure 6)*



Figure 1

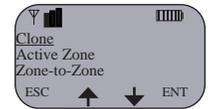


Figure 2

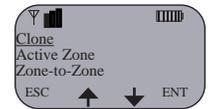


Figure 3

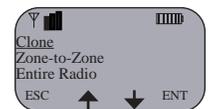


Figure 4



Figure 5

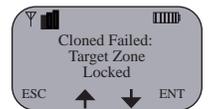


Figure 6



**KNG P150s Cloning Connections**

# KNG PORTABLE RADIO QUICK CLONING GUIDE

## KNGs to KNGs

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on and select desired zone to clone on each Source and Target radios.
3. Place the Master radio in Cloning Mode by pressing the "Menu" softkey, highlight "Cloning" and press "ENT".
4. Select the type of clone to be performed by the Master radio, ("Active Zone", "Zone-to-Zone" or "Entire Radio"), then press the "ENT" key.
  - **Active Zone** - Information from the current selected zone in the source radio will be sent to the current active zone on the target radio.
  - **Zone-to-Zone** - User selects the source and target zones to be cloned.
  - **Entire Radio** - All information from the Source radio will be cloned to the target radio
5. Once the cloning is complete press "ESC" on the Source radio for normal operation.

## KNG to KNGs

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on and select desired zone to clone on each Source and Target radios.
3. On Source/Master radio, press the "Menu" softkey.
  - Select "Cloning" using the Up/Down softkeys, then press the "ENT" softkey.
  - Select "Clone Active Zone" using the Up/Down softkeys, then press the "ENT" softkey to send clone.
4. Once the cloning is complete, press "ESC" on the Source radio for normal operation.

## KNG to KNG

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on and select desired zone to clone on each Source and Target radios.
3. On Target radio, press the "Menu" softkey.
  - Select "Cloning" using the Up/Down softkey, then press the "ENT" softkey.
  - Select "Enter Dest Clone" using the Up/Down softkeys, then press the "ENT" softkey to send clone.
4. On the Source radio, press the "Menu" softkey.
  - Select "Cloning" using the up/down softkeys, then press the "ENT" softkey.
  - Select "Clone Active Zone" using the up/down softkeys, then press the "ENT" softkey.
4. Once the cloning is complete, press "ESC" on the Source radio for normal operation.

## KNG to DPH/DPHx

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on and select desired zone to clone on each Source and Target radios.
3. On the Source radio, press the "Menu" softkey.
  - Select "Cloning" using the up/down softkeys, then press the "ENT" softkey.
  - Select "Clone Active Zone" using the up/down softkeys, then press the "ENT" softkey.
4. Once the cloning is complete, press "ESC" on the Source radio for normal operation.

## DPH/DPHx to KNG/KNGs

1. Assure that both radios are off and attach the cloning cable to both the Source and Target radios.
2. Turn both radios on and select desired zone to clone on each Source and Target radios.
3. On the Source radio, access the program mode by holding down the Master Switch and simultaneously pressing the "FCN" key until the LCD displays (-- -- ID).
  - Enter a valid password and the "ENT" key.
4. Press the "\*" key on the master radio.
  - The LCD will flash "PROG", indicating the radio is ready to download the clone.
5. Press the "FCN" key to download the clone to the Target radio.
6. Once the cloning is complete, cycle power on the Target radio.

*Note: Radios programmed with blocked zones will not receive cloning information when a Entire Radio clone is selected.*

*Note: If cloned failed, its possible that the Target zone is blocked from accepting any incoming clone.*

*Entire radio cloning transfers all radio information except the following:*

- Radio Serial Number
- P25 Identification Number
- Encryption Keys
- Passwords