**South-Central Oregon**

**Fire Management**

**Partnership**

**Radio Communications Guide**

**2022**

National Air Frequency Use Regulations

The following definitions describe the intent and use of Air Guard and National Flight Following frequencies:

**National Air Guard - 168.625 MHz**

A National Interagency Air Guard frequency for government aircraft assigned to incidents. It is used in emergency communications for aviation. A separate aircraft priority receiver is required to permit continuous monitoring. Transmitters on this frequency should be equipped with an encoder on 110.9 Hz. 168.625 is restricted to the following use:

Air-to-air emergency contact and coordination.

Ground-to-air emergency contact.

Initial call, recall, and redirection of aircraft when no other contact frequency is available.

**National Flight Following - 168.650 MHz**

The National Interagency Air Net frequency is used for flight following of official aircraft. The intent is not to use this frequency for incident operations. All dispatch centers/offices will monitor the national fight following frequency at all times. 168.650 is restricted to the following use:

Flight following, dispatch, and/or re-direction of aircraft.

Air-to-ground and ground-to-air administrative traffic.

Not authorized for ground-to-ground traffic.

**Policy Release Date: January 2005**

Agency specific policies for radio communications may be found in:

*Department of Interior, Department Manual, Radio Communications*

*Handbook (377 DM).*

*USDA Forest Service Handbook (FSH 6609.14 chapters 10-40 and Forest*

*Service Manual (FSM) 6600 Systems Management Chapter 6640*

*Telecommunications.*

**Center/Office Phone Numbers:**

LIFC 24 hr 541-947-6315, During COOP call this same number

Bly RD 541-353-2427 Lakeview RD 541-947-3334

Paisley RD 541-943-3114 Silver Lake RD 541-576-2107

Klamath RD 541-883-6714 Chemult RD 541-365-7001

Chiloquin RD 541-783-4001 Sheldon-Hart Mt 541-947-3315

Gerber GS 541-545-6746 Fort Rock GS 541-576-2220

Fire Cache 541-947-6172 Road Crew Shop 541-947-6327

BLM/FS LIO 541-947-2177/2151 BLM K-Falls 541-883-6916

Equip Shop 541-947-6236/6262 Radio Shop 541-947-6165/6218

**General Radio Use**

Lakeview Interagency Fire Center (LIFC) dispatch control radio systems belonging to Bureau of Land Management, Forest Service, U.S. Fish and Wildlife, Oregon Department of Forestry and Crater Lake National Park. In some cases, these radio systems utilize the same mountaintops, providing redundancy, but in most cases, separate mountaintops are used. Fire support is the main operation of these centers, however, check-in/check-out procedures and emergency situations can be part of their daily activities.

Center/Office Call Signs:

Lakeview—Lakeview Interagency Fire Center

KOD414—Lakeview Interagency Office

KOD474—BLM Klamath Falls Office

Ranger Districts are stated by name, such as “Bly” or “Bly Ranger District”. When calling Lakeview Ranger District, state the full name. “Lakeview” is the call sign for LIFC Dispatch.

Other office radio contacts include Gerber and Fort Rock Guard Stations, Road Crew Shop, Equipment Shop, and Radio Shop.

Talk Around/Direct Feature Utilization

Talk Around and Direct are two terms which generally refer to the same meaning--transmit and receive frequencies are the same, as in BLM Direct. However, when referring to talk around or direct while on a repeater channel, these terms indicate that the user is bypassing (talking around) the mountaintop repeater and transmitting car to car (direct). While operating in the Talk Around or Direct mode on a repeater channel, the radio will transmit that channel’s receive tone and frequency. The repeater will not receive this transmission but all units monitoring this channel in the vicinity will.

Use of the Talk Around/Direct feature on repeater channels such as ODFKYX and ODFLBC change these channels to ODF Klamath Direct and ODF Lake Direct. **Enabling Talk Around/Direct (TRN DIR) of the King DPH portable radio affect all repeater channels.** If you cannot “hit” a repeater that you think you should be able to, check to see that the Talk Around/Direct feature is not enabled.

Hints and Etiquette

1. When utilizing a repeater, the operator must allow for repeater key-up delay or the first part of their transmission will be cut off. Pause for approximately one second after keying radio, and then begin speaking.

2. Observe the general rule of speaking clearly and concisely one to two inches away from the microphone.

3. If the channel you want to use is busy, wait for the traffic to end, and then go ahead with your traffic. Any attempt to override the busy channel will result in garbled reception.

4. State the channel being used when initiating a transmission.

1. Dispatching procedures should include a preliminary Command and Air to Ground Tactical frequency in the script for every dispatch. Once an IC is on scene and established, these should be validated by the IC.
2. Air to Ground Tactical frequencies are to be used strictly as Air to Ground and Ground to Air communication. Air to Air and Ground to Ground use of these frequencies is in violation of their intent.
3. The closest repeater may not be the best or clearest to use. Get familiar with your location and check for the best repeater.
4. When radio traffic is heavy or when information is critical, consider using either a second radio to monitor traffic, or delegate to another person the monitoring of a frequency. These practices can help ensure that critical information is communicated clearly and in a timely manner.
5. Fire traffic should be performed using zones 1 - 9 in the SCOFMP communications plan. The plan provides zones for Administrative traffic in 10 and 12. The plan is designed to provide for all users in a way that we impact each other as little as possible when radio use is needed by all.
6. While driving and when available use a passenger as the radio operator and/or scribe. Consider pulling over when no one is available to perform these tasks. These practices will help provide for the safety of all when traveling.
7. Consider using human repeaters and Lookout personnel to improve communications. Often overlooked, this practice can be very effective.

**In the event of a medical emergency provide the following information to the Communications Unit:**

1. Declare the nature of the emergency.
2. Medical injury/illness?
3. If injury/illness is it life threatening?
4. If life threatening, then request that the designated frequency be cleared for emergency traffic.
5. Identify the on-scene Point of Contact (POC) by Resource and Last name (i.e. POC is TFLD Smith).
6. Identify nature of incident, number injured, patient assessment(s) and location (geographic and GPS coordinates).
7. Identify on-scene medical personnel by position and name (i.e. EMT Jones).
8. Identify preferred method of patient transport.
9. Request any additional resources and/or equipment needed.
10. Document all information received and transmitted on the radio or phone.
11. Identify any changes in the on-scene Point of Contact or medical personnel as they occur.

 From “Wildland Fire Lessons Learned Center”

**South-Central Oregon Fire Management Partnership**

**Repeater Sites**

WAGONTIRE MT

BLACK CAP

LIGHT PK

Mt Scott

Watchman

WELCH BT

 LIFC Dispatch Radio Control:

FWNF: Walker Mt ODF: Welch Butte FWNF: Bald Mt BLM: FWS: ODF:

 Applegate Butte Hamaker Mt Picture Rock Direct Light Peak Direct

 Pelican Butte Yainax Butte Spodue Mt Hart Mt Warner Peak Black Cap

 Swan Lake Point Direct(Hogback Mt) Grizzly Peak Yainax Butte Thousand Creek Round Pass

 Hogback Mt Crater Lk Watchman Round Pass Green Mt Badger Mt Yainax Bt

 Chase Mt Crater Lk Mt Scott Drake Peak Hamaker Mt Mahogany Mt

MAHOGANY MT

BADGER MT

**NEVADA**

Sheldon NWR

**OREGON**

**CALIFORNIA**

ODELL BT

GRIZZLY PK

SUGAR HILL

LOOKOUT MT

KING MT

EAST BT

SNOW MT

APPLEGATE BT

CHASE MT

HAMAKER MT

PELICAN BT

SWAN LAKE PT

HOGBACK MT

YAINAX BT

THOUSAND CREEK

DRAKE PK

WALKER MT

BALD MT

PICTURE ROCK

ROUND PASS

HART MT

WARNER PK

GREEN MT

SPODUE MT

GRIZZLY PK

Wagontire

Three Sisters Wilderness

Crater Lake NP

Hart Mt NWR

Adel

Chiloquin

Chemult

Plush

Bly

Silver Lake

Fort Rock

Bend

Burns

Riley

Paisley

Alturas

Klamath Falls

Lakeview

97

139

138

58

140

140

205

5-10

78

97

97

395

31

395

395

20

BK Radio KNG-M150 Functional Diagram

A. ON/OFF, Volume

B. Channel and Zone Name

C. Receive Signal Strength

D. Rx/Tx Analog/Digital

E. Designates Priority Channel

F. Tx Direct Indicator

G. High/Low Tx Power

H. Scan Mode: Channel, Priority, Zone

I. Scan Indicator

J. Scanned Channel

K. Channel Select

L. Nuisance Channel Delete

M. Light Sensor

N. Home Button

O. Menu Navigation

P. Status LED

Q. *touch* Menu Display

R. *touch* Zone Selection

S. *touch* Priority Scan Enable

T. *touch* Scan Enable

U. *touch* Priority Scan Selection

V. Rx and Tx Frequency

W. USB Programming Port

X. Microphone Jack

KNG-M REMOTE

*BK RADIO*

**M**

**E**

**N**

**U**

**PRI+**

**SCAN**

**PSCN**

**ZONE**

**RXA**

**H**

**C**

**P**

**P1**

**OK**

**H**

**HART MT**

**EAST ADMIN**

**173.88750**

A

C

B

L

K

J

I

H

G

X

F

E

D

N

M

O

P

Q

R

S

T

U

V

W

MENU Items

1. Channel Scan List

2. Channel Scan

3. Priority Channels

4. Priority Scan

5. Zone Scan List

6. Zone Scan

7. Squelch Adjust

8. Backlight

9. Cloning

10. User Tx Tones

11. Tx Power

12. Surveillance Mode

13. Versions

14. Keypad Programming

MICROPHONE Functions

1. Side Buttons--unprogrammed

2. Use Arrow and OK buttons to navigate the Display

3. Use 0-9 to directly select Zone

4. Use \* for channel Add/Delete (COMMAND Zone)

5. Use # to toggle Surveillance on/off

Menu Items: 6: Zone Scan List 12: TX Power

1: Chan Scan 7: Zone Select 13: Battery Life

2: Chan Scan List 8: Squelch Adjust 14: Surveillance

3: Priority Scan 9: Backlight 15: Versions

4: Priority Chans 10: Cloning 16: Keypad Prog

5: Zone Scan 11: User TX Tones

Accessory Jack

Priority Select

Nuisance Channel Delete

Monitor

PTT

On/Off

Volume

**BK RADIO**

**KNG*2*-P150**

Home Channel

APA

***BK RADIO*** KNG***2***-P150

**MENU**

PWR

**TXCG**

**ZONE**

RXA

**166.27500**

**ZONE 5**

**IATAC3**

**C**

**P**

H

P1

Microphone

Light Sensor

Displayed function correspond to the buttons below. These functions change when in Menu and Squelch adjust mode, etc.

Channel Select

Scan

On/Off

Collar Switch

Keypad Lock

 = Off

Transmit

Indicator

Zone Select

Transmit Code Guard Select

TX Power

Menu Screen

Priority Scan

On/Off

Add/Delete Channel

Surveillance

|  |  |
| --- | --- |
| 1: Channel Scan off/on, select channels to scan first2: Chan Scan List Edit current zone, channel scan list Use +/- to add or delete3: Priority Scan off/on, set priority channel first4: Priority Chans 1: System P1 Chan Global PRI1 channel Off Use Main follows channel select knob Select: any channel of all zones 2: System P2 Chan Global PRI2 channel Off Use Main follows channel select knob Select: any channel of all zones 3: Zone # P1 Chan Off Use Main follows channel select knob Select: any channel of current zone 4: Zone # P2 Chan Off Use Main follows channel select knob Select: any channel of current zone5: Zone Scan (Global operation) On/Off if ON, scan Toggle Switch control6: Zone Scan List Select zones to scan Use +/- to add or delete7: Zone Select8: Squelch Adjust Adjust… Selected Channel Selected Zone All Channels Reset… Selected Channel Selected Zone All Channels Set Default Level9: Backlight Auto Off Dim Medium Bright Custom10: Cloning Clone Active Zone as Master radio Clone Picklists Enter Dest Clone as Slave radio11: User Tx Tones Use to select transmit tones 1-32 | 12: TX Power13: Battery Life14: Surveillance15: Versions current firmware/software of radio16: Keypad Prog 1: Global Pri Scan Period Display Timeout 2: System System P1 Chan Tx on Priority 1 System P2 Chan Scan Hold Time 3: Zone Edit Zone Zone Label Zone P1 Chan Zone Tx on P1 Zone P2 Chan 4: Channel 1: Edit Channel choose Zone and Channel 1: Channel Label 2: Rx Frequency Press CLR even if there are zeros Enter new frequency, then ENT 3: Rx Mode Analog Digital Mixed 4: Rx Guard Off Tone: Digital: Select: 5: Bandwidth narrowband 6: Tx Power Selectable Low 7: Tx Frequency Press CLR even if there are zeros Enter new frequency, then ENT 8: Tx Mode Analog Digital Selectable 9: Tx Guard Off Tone: Digital: Select: 10: DTMF Live Dial ON 2: Add Channel 3: Delete Channel |

**MENU items for KNG-M150 and KNG2-P150**

Priority Scan

On/Off

***BK RADIO*** KNG-P150S

APA

**GRIZZLY**

**ZONE 5**

**169.92500 MHz**

**MENU**

**LPW**

**TCG**

**ZONE**

Accessory Jack

Not Assigned

Nuisance Channel Delete

Monitor

PTT

Menu Screen

TX Power

Zone Select

Transmit Code Guard Select

Scan

On/Off

Channel Select

On/Off

Volume

Transmit

Indicator

**Relm BK Radio**

**KNG-P150S**

Copy Channel

Collar Switch

Keypad Lock

 = Off

Displayed function corresponds to the buttons below. These functions change when in Menu and Squelch adjust mode, etc.

Menu Items:

Scan List Cloning Version

Pri. Channels Backlight Contrast Adj.

Squelch Set Keypad Prog Radio Status

**KNG-P150S CLONING PROCEDURES**

KNG-S radios allow for three cloning options:

**Active Zone** - Copies the information in the Source radio’s active zone to the Target radio’s active zone.

**Zone-to-Zone** - Allows for selection of any zone in the source radio to be copied into any non-blocked zone in the Target radio.

**Entire Radio** - Copies all non-radio specific data from the Source radio to the Target radio. Radio specific data includes P25 ID, serial number, encryption keys and passwords.

Zone-to-Zone and Entire Radio cloning are available only when cloning between two KNG-S models and not supported by other KNG portables, mobiles or legacy radios.

Connect the KAA0701 Cloning Cable to the side connector of the Source and Target radios and power up both radios.

**KNG-P150S to KNG-P150S**

On the Source radio:

1. Press the Menu button.

2. Use the up/down buttons to select “Cloning”.

3. Press the [ENT] button.

4. Use the up/down buttons to select the cloning type.

5. Press the Enter button to send the cloning information.

The following additional steps are required for Zone-to-Zone cloning:

a. Use the up/down buttons to select the desired Source radio zone.

b. Press the Enter button.

c. Use the up/down buttons to select the desired Target radio zone.

d. Press the Enter button to send the cloning information.

While sending or receiving information “Cloning Mode” will be shown on the Target radio display.

After a successful information transfer, “Cloning Successful” is displayed on the Source radio before reverting to Send Clone mode.

If the cloning process fails or the Target radio’s zone is blocked form accepting an incoming clone, a failure message will appear on the Source radio.

**KNG-P150S as source radio**

On the source radio select the zone with the information to be cloned by pressing the Zone button, or selecting “Zone Select” from the menu, then entering the number of the desired zone. On the target radio select the Zone or Group to which the information is to be sent.

For Legacy radio models select a target group by pressing the [#] key and entering the number of the desired group.

Some zones may be blocked by PC programming to prevent them from being overwritten. Only unlocked groups will accept incoming clones.

On the Target radio:

1. Press the Menu button.

2. Use the up/down buttons to select “Cloning”.

3. Press the [ENT] button.

4. Select “Enter Dest Clone”.

When the KNG Target radio is in “Destination Clone Mode”, the Source radio can initiate the cloning of the “Active Zone” or “Picklist”. When cloning has started, the KNG Target radio will display “Destination Clone Start”

After a successful information transfer, “Power off” is displayed and the radio will restart. The only cloning functions supported by the KNG Target radio are “Active Zone” and “Picklist”. All other functions are unsupported

**KNG ABBREVIATED KEYPAD CHANNEL PROGRAMMING**

Refer to KNG-P150S series owner’s manual (pg 55) for complete instructions.

To edit the programmable Channel settings: Press Menu, scroll to Keypad Programming and press ENT, Keypad Programming appears again, press ENT, enter password (000000), press ENT to select Channels. At this point, choose which Zone to edit the channel and then select the Channel to edit. Enter desired RX/TX frequencies and tones. Remember to clear (CLR) the current value first and enter (ENT) the new value. Below are common settings for analog channels:

A. Chan Label – enter channel name

B. Rx Freq – enter receive frequency

C. Rx Mode – analog

D. Rx Guard – enter tone frequency

E. Rx NAC – (digital mode)

F. Squelch Mode – (digital mode)

G. Tx Freq – enter transmit frequency

H. Tx Mode – analog

I. Bandwidth – 12.5 KHz

J. Tx Guard – enter tone frequency

K. Tx NAC – (digital mode)

L. TGID – (digital mode)

M. Secure Mode – clear

N. Key – 01 (do not change)

O. Key Lock – off

P. Low Pow Lock – off

Q. PList Disable – off

***BK RADIO*** *Digital*

PR TX RX SCN CG

 IATAC1

**7**

**CLR**

**#**

**0**

**\***

**ENT**

**9**

**8**

**PRI**

**6**

**5**

**4**

**1**

**FCN**

**3**

**2**

Push-to-Talk (PTT)

TX—Displayed when radio is transmitting

Channel Name Display

PR—Indicates channel is Priority during scan

RX—Displayed when radio is receiving

Code Guard, same as Tone, CTCSS and PL

SCN—Indicates channel is in scan list.

Flashing SCN indicates radio is scanning.

HI/LO Transmit Power Switch

Scan ON/OFF Switch—Flashing SCN indicates switch is on.

Antenna—Do not over-tighten

TX indicator light

t

Priority Channel Scan

RX Code Guard Enable,

Squelch Set

RX/Busy/Low Battery indicator light

ON/OFF/Volume

Channel Select Switch

|  |  |
| --- | --- |
| **Function** | **Label** |
| Repeater Talk Around | TRN DIR |
| Group Scan | GRP SCN |
| Transmit Digital | TX DIG |

To access functions on the keypad [FCN] key menu:

1. Press FCN to display function menu. 2. Repeatedly press FCN to step through menu. 3. Press PRI to toggle the function on/off when the desired menu item is displayed.

Flashing function label indicates enabled.

To lock/unlock the keypad, press and hold the FCN key.

Press to set current channel as Priority

Press to Enter current channel in scan list

Press to Clear current channel from scan list

**King DPHX5102X**

**P25 Digital Portable Radio**

See manual for detailed description of radio operation and controls.

Press to display Group. Enter GRP number to change group.

APA

**BK Radio Cloning Procedures**

NOTE: Some groups may be locked by PC programming to prevent them from being overwritten. Only unlocked groups will accept incoming clones.

1. Make sure the battery packs for both radios are charged.
2. Attach the master switch end of the cloning cable to the side connector of the Master radio.
3. Turn on the Master radio.
4. Select the group to be cloned from the Master radio.
5. Put the Master radio in Programming Mode by pressing and holding the [FCN] key until the display shows ‘- - - ID.’ Enter the password of the selected group. The display shows ‘PRG CH 00’.
6. Review the values programmed in the radio by pressing the [FCN] or [ENT] key at each CHXX prompt. Any required changes must be made now.
7. Connect the other plug of the cable to the side connector of the radio you want to clone.
8. Turn on the clone and set it to the desired channel group.
9. Press the [\*] key on the Master radio keypad. The display will flash ‘PROG’ signifying that the radio is ready to download its program to the clone.
10. Press the [FCN] key on the Master radio keypad. The program in the Master will then be downloaded to the clone.
11. If the download was successful, the display on the Master will resume flashing ‘PROG’. More radios may be cloned at this stage.
12. To program another group or if the process failed, start the process over from the beginning.

**BK Radio Abbreviated Keypad Channel Programming**

NOTE: Refer to the DPH programming manual for complete instructions (steps A-L channel programming below begin on page 16). Select group to be programmed by pressing #, group number and ENT. Press and hold the program plug master switch. While holding the master switch press and hold the FCN key. After about three seconds the LCD will display “---ID”. Release the FCN key and master switch, enter password code; default is 000000, then press ENT. At CH 00, press FCN to step through CH 00 Settings or press PRI to advance to CH 01 and up or enter channel number.

CH 01 below is used as an example assuming Analog Operation.

1. CH 01 or CH 01N, use # to toggle between wide and narrow-band. Press FCN to advance programming.
2. ###.####, Receive Frequency, press CLR to clear, enter new frequency then press ENT.
3. MODE—A, Default, press PRI to cycle through **A**nalog, **D**igital, **M**ixed, press ENT.
4. ###.#, RX analog tone, press CLR, enter new tone, press ENT.
5. NAC0659, Default network access code, press FCN to skip.
6. SQL—NRM, Default squelch operation, press FCN to skip.
7. ###.####, Transmit Frequency, press CLR, enter new frequency.
8. MODE—A, Default, PRI cycles through A, D, and M.
9. ###.#, TX analog tone, press CLR, enter new tone, press ENT.
10. NAC0659, Default network access code, press FCN to skip.
11. TG00001, Talk Group ID, Default, press FCN to skip.
12. Channel Label, press FCN to skip. To change press CLR, PRI repeatedly to cycle through characters, FCN to shift the display left, FCN again for space, ENT to store changes.

**Common CH 00 Settings—Per Group Settings**

P000000

0000000

060 SEC

3.0 SEC

PR1 01 (Not On or Off)

PR2 OFF

1-1**2**345 (2 flashing) Press number to change state.

2-12**3**4**5** (3 & 5 flashing)

3-12**345** (3, 4 &5 flashing)

3 SEC ON

GROUP #

These CH 00 values are what are commonly used for User Selectable Priority Channel settings.

**BK Radio DMH Functional Diagram**

 VOLCH ***BK RADIO*** *Digital*

**MON**

**SCN**

**PRI**

**SQL**

**GRP**

I A T A C 1

**PRG PR TX RX SCN ID CG**

**G**

**R**

**P**

APA

1. Transmit Indicator
2. Channel/Group/Information Display
3. Programming Indicator
4. Priority Channel Indicator
5. Transmit/Program Step Indicator
6. Receive/Program Step Indicator
7. Scanned Channel, Flashing--Scan on
8. Digital Identification Number Indicator
9. Code Guard (Tone) Program Step
10. Talk Group ID Phone Icon
11. Display Dimming Sensor
12. Internal Speaker
13. Squelch, press and release, use Channel Knob to adjust
14. Channel Selector Knob
15. Group Display/Selection, press and use Channel Knob to adjust
16. Priority Scan on/off, press and hold to select current channel
17. On/Off/Volume, push on/off radio power
18. Scan on/off, press and hold to select/deselect current channel
19. Monitor, opens squelch
20. Microphone Connector/Program Port
21. Function Button On/Off Indicators
22. Priority Indicator/Busy Channel Light

**BK Radio DMH Basic Operation**

1. Turn on radio by pressing the Volume knob.
2. Set the volume by pressing the MON button to hear squelch noise. Turn the Volume knob to set a comfortable volume level. Press MON again to stop squelch noise.
3. Select a channel group by pressing the GRP button and turning the Channel Selector knob. Press the GRP button again to return to Channel Select mode.
4. Select a channel by rotating the Channel Selector knob. A beep will be heard when the knob is rotated beyond the 1st and 16th channels.
5. Press the SQL button and turn the Channel Selector knob to adjust Squelch. “Open” squelch is fully to the right. Press the SQL button again to return to normal operation.
6. Press the SCN button to start/stop scanning channels in the scan list. Flashing SCN indicates scan is on.
7. Press the PRI button to start/stop priority channel scan.
8. With scan and priority scan off, press and hold the SCN button to add/remove channels from the scan list or use ENT/CLR of the microphone. Press and hold the PRI button to select a priority channel or use PRI of the microphone.
9. To transmit, press the Push-To-Talk switch on the microphone. The red Transmit Indicator will illuminate during transmission. Speak at a normal volume level with the microphone 1-2 inches from your mouth.
10. Turn on/off group scan by pressing FCN of the microphone until “GRP SCN” is displayed, then press PRI and ENT. Flashing “GRP SCN” indicates group scan is on. Repeat these steps to turn off group scan.
11. If radio is equipped with a remote speaker, audio can be routed to it by pressing the FCN button on the microphone until “REM SPK” is displayed, then press PRI and ENT. Flashing “REM SPK” indicates remote speaker is on. Repeat these steps to return audio to inside speaker.
12. Nuisance channel delete during scan is accomplished by pressing the SCN button for at least 1 second or by pressing the CLR key of the microphone. The scan list is restored when the radio is powered off and back on.
13. To clone a group from a BK Radio handheld (assuming handheld radio is in cloning mode), select an empty group (15-25) of the mobile radio, remove the microphone cover and plug, insert the modular plug of the cloning cable and proceed with clone as if cloning to another handheld radio. Global settings of the mobile radio will not be affected.

|  |
| --- |
| **National Tone/NAC Pick List** |
|
| **Number** | **Tone** | **Number** | **Tone** |
| 1 | 110.9$455 | 17 | 67.0$29E |
| 2 | 123.0$4CE | 18 | 71.9$2CF |
| 3 | 131.8$526 | 19 | 74.4$2E8 |
| 4 | 136.5$555 | 20 | 77.0$302 |
| 5 | 146.2$5B6 | 21 | 79.7$31D |
| 6 | 156.7$61F | 22 | 82.5$339 |
| 7 | 167.9$68F | 23 | 85.4$356 |
| 8 | 103.5$40B | 24 | 88.5$375 |
| 9 | 100.0$3E8 | 25 | 91.5$393 |
| 10 | 107.2$430 | 26 | 94.8$3B4 |
| 11 | 114.8$47C | 27 | 97.4$3CE |
| 12 | 127.3$4F9 | 28 | 118.8$4A4 |
| 13 | 141.3$585 | 29 | 173.8$6CA |
| 14 | 151.4$5EA | 30 | 179.9$707 |
| 15 | 162.2$656 | 31 | 186.2$746 |
| 16 | 192.8$788 | 32 | 203.5$7F3 |

|  |  |
| --- | --- |
| A AlphaB BravoC CharlieD DeltaE EchoF FoxtrotG GolfH HotelI IndiaJ JulietK KiloL LimaM Mike | N NovemberO OscarP PapaQ QuebecR RomeoS SierraT TangoU UniformV VictorW WhiskyX X-rayY YankeeZ Zulu |