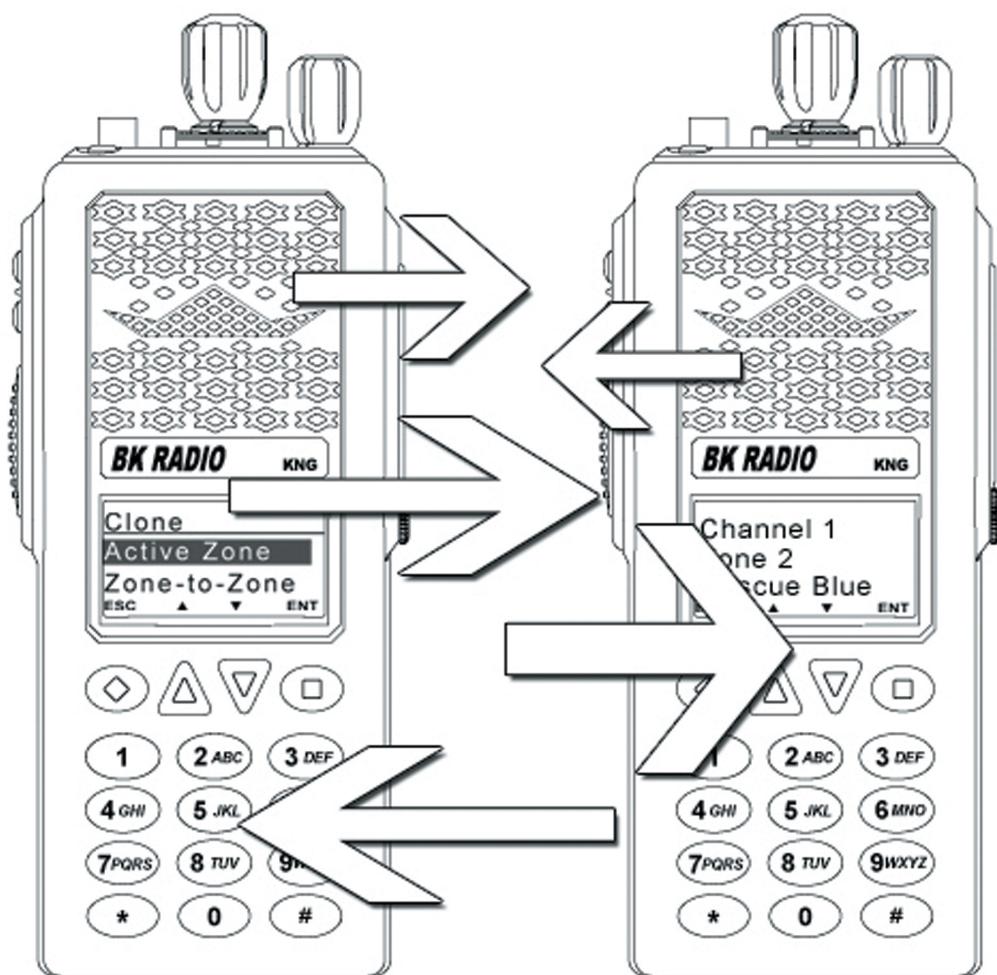


KAA 0700

KNG Portable Cloning Cable



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Introduction

The KAA0700 Cloning Cable offers radio users the ability to share programmed information between KNG portable radios.

Operation

The Source radio is a radio programmed with the desired radio frequencies and settings you wish to transfer to another radio of the same frequency range.

In order to clone radio information the Source radio must have a menu item programmed, via PC Radio Editor KAA0730, to allow cloning. (Refer to the "Menus/Controls" section of the radio editor.)

The radio receiving the program is referred to as the Target.

Target radios can be programmed to block incoming cloning information on a zone by zone basis.

KNG radios only allow one cloning option: Active Zone.

KNG-S radios allow for three cloning options: Active Zone, Zone-to-Zone or Entire Radio.

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 (functional on KNG-S to KNG-S cloning only.)

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. (functional on KNG-S to KNG-S cloning only.)

Zone Cloning Information

Cloned zone information includes:

Channel and Zone Labels	Bandwidth
Frequencies	Low Power Selection
Operating Modes	ANI Settings
Code Guards (CG)*	Zone Priority Settings
Network Access Codes (NAC)*	Zone Scan List Selection
Squelch Operation	Security Settings**
Talk Groups*	OTAR Channel**
Scan List	

*If picklist selections are assigned in the source radio, the associated value will be cloned to the target radio. For instance, if a channel has a picklist selected NAC whose value is \$123, then \$123 will be sent to the target radio. The target radio picklists will not be affected.

**Security and OTAR functions require radio encryption options. Encryption keys are not clonable.

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

Entire Radio Cloning Information

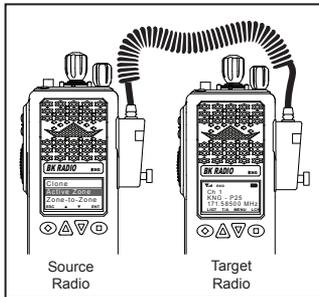
When “Entire Radio” is selected from the cloning menu, information from the all zones is sent to the corresponding zones of the radio being cloned.

NOTE: Radios programmed with any zone(s) blocked from receiving cloning information will not accept an “Entire Radio” clone.

Entire Radio cloning transfers all radio information except the following:

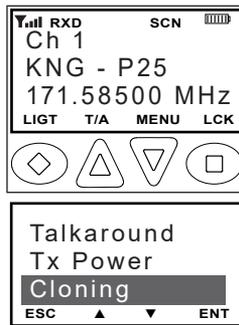
Radio Serial Number
P25 Identification Number
Encryption Keys
Passwords

KNG as Source Radio

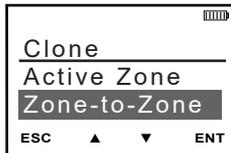


Connect the KAA0700 Cloning Cable to the side connector of the Source and target radios and power up both radios.

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.

NOTE: When “Active Zone” is selected, information from the currently selected zone will be sent to the currently operating zone in the Target radio.

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

Source Zone			
Zone 1			
Zone Label			
ESC	▲	▼	ENT

Dest. Zone			
→ Zone 1			
Zone 2			
ESC	▲	▼	ENT

- 4a. Use the up/down buttons to select the desired source radio zone.
- 4b. Press the Enter button.
- 4c. Use the up/down buttons to select the desired target radio zone.
5. Press the Enter button to send the cloning information.

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

Zone-to-Zone Successfully Cloned			
ESC	▲	▼	ENT

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

Clone Failed: Target Zone Locked			
ESC	▲	▼	ENT

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

Error Notifications

Source Clone Error

KNG Source

Destination Clone
Locked

KNG Target

If the targeted zone is blocked from cloning, or the clone is not successful any other reason, the KNG Source radio will display “Source Clone Error” and require radio power to be cycled.

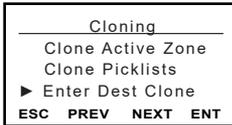
If a KNG targeted zone is blocked from cloning the target will display the “Destination Clone Locked” message and requires radio power to be cycled.

KNG-S and Legacy target radios do not display any error messages.

KNG as Target Radio

(firmware version 4.6.2 and higher)

To clone to a KNG radio, it must be put in “Destination Clone Mode.” The KNG radio can only receive “Active Zone” or “Picklist” clone information.



On the KNG Target radio:

1. Select 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”



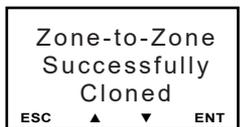
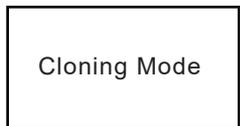
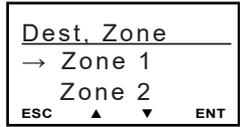
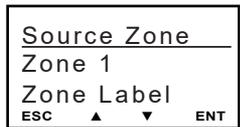
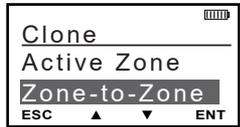
After a successful information transfer, “Power off” is displayed and the radio will restart.



The only cloning functions supported by the KNG Target radio are “Active Zone” and “Picklist”. All other functions are unsupported.

KNG-S to KNG-S Cloning

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



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 from accepting an incoming clone, a failure message will appear on the Source radio.

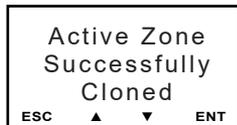
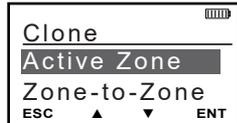
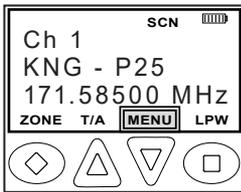
KNG-S to KNG Cloning

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

On the KNG-S 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.



On the KNG-S Source radio:

1. Press the Menu button.
2. Use the up/down buttons to select “Cloning”.
3. Press the [ENT] button.
4. Select “Active Zone” cloning.
5. Press the Enter button to send the cloning information.

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 from accepting an incoming clone, a failure message will appear on the Source radio.

Quick Reference

KNG to Any Compatible Model

1. Put Source and Target radios in the desired Zone.
2. Select “Cloning” from the menu.
3. Press the ENT button to send.

KNG-S to Any Compatible Model

1. Select “Cloning” from the menu.
2. Select “Active Zone” from the cloning menu.
3. Press the ENT button to send.

KNG-S to KNG-S

1. Select “Cloning” from the menu.
2. Select “Active Zone”, “Zone-to-Zone” or “Entire Radio” from the cloning menu.
- 2(a). If “Zone-to-Zone” is selected, select desired source and target zones.
3. Press the ENT button to send.