

Infrared Remote Accessory for Lowe Receiver

Instructions

Software version 1.0

Manual version 1.0

OVERVIEW

Thank you for purchasing the Infrared Remote Control accessory designed to work with the Lowe HF-150 Communications Receiver. (It has not been tested with the Lowe HF-225, but due to similarities in the data protocol used, should provide similar results.)

This adapter provides:

Direct frequency input

Direct memory access

Stepping through the first 10 memories via a single button press

Mode selection of AM, AMn, USB, LSB

This device features compact size, and requires no external power source. It is designed for ease of installation and simplicity in operation. Current drain is in the order of a few milliamps, so there will be negligible impact on battery life if the radio is being operated on batteries. It recognizes commands from most any TV remote control that uses the Sony format.

INSTALLATION

The Infrared Remote Adapter accessory simply plugs into the “KEYPAD” jack on the rear of the receiver. Position the adaptor so that end opposite of the cord has an unblocked view to where the remote will be used. No initialization or settings on the receiver itself needs to be made.

CONFIGURING THE HAND-HELD REMOTE

Almost any Sony brand TV remote should work with this adapter. It recognizes only the command bits and not the unit bits making it compatible with more models of remotes.

Any “universal” remote programmed to work with a Sony TV should work. Some universal remotes have a code table. Simply follow the instructions that were supplied with the remote and enter the codes for Sony TVs until you find one that responds.

Some universal remotes have an “Auto Program” mode, where you continue to press the power button until your TV turns on. Since the Lowe protocol does not include the function for turning the receiver on or off, look for the digit “1” to appear on the display when you have found the correct code if your remote uses this method.

One inexpensive universal remote that has been tested is the ONN 4-Function, available at Wal-Mart. Use the code “1071”.

OPERATION

Direct Frequency Input

Use the numeric keys to enter the frequency in kilohertz. The receiver will only tune to the entered frequency when entry is complete – either when sufficient digits have been keyed in or when the [enter] key is pressed. (If your remote does not have an [Enter] key, use the [OK] key instead.)

Frequencies above 3000 kHz will enter automatically as soon as the last digit is keyed. Those below 3000 kHz should be followed by the enter key.

For example [1] [2] [0] [9] [5] tunes to 12.095 mHz
[1] [9] [8] [enter] tunes to 198 kHz

Because frequencies entered by the keypad are to the nearest kilohertz, it may be necessary to retune the receiver slightly to correctly receive single sideband signals.

If you press an incorrect key on the keypad, the current digits can be cleared by pressing the dot key [.] , after which the frequency should be reentered. Please note that once the frequency entry is started the other controls on the receiver will be inoperative until entry is completed or cancelled.

Direct Memory Access

In order to directly access frequencies stored in the receiver's memories, simply enter the memory number between 1 and 60, followed by the [enter] key. The corresponding memory is recalled and the receiver's mode and frequency is set.

For example [2] [#] recalls and tunes memory 2
 [4] [5] [#] recalls and tunes memory 45

Stepping through Memories

The first 10 memories can be accessed by simply pressing the [Channel Up] or [Channel Down] keys. The memory number will be displayed briefly, followed by the frequency that is stored in that memory. Once you get to the highest or lowest memory, the next press will wrap around and start over. Please note: since the Lowe protocol only operates in one direction, the IR Adapter will not know which memory is in use if it is selected from the front panel of the radio. For example, if you've stepped up to memory 5, then select memory 20 from the radio front panel, the next Channel Up press on the remote will take you to memory 6. This is a normal condition.

Mode Selection

Pressing the [Input] or [TV/Video] button will step through various modes. Since there is no visual indication on the radio which mode you are currently in, only the most common modes are provided for this function. They are: AM, LSB, USB, and AMn in that order. If you are in the AMn mode, the next press will select AM. Similar to the memory select above, changing the mode from the receiver from panel will not change the next mode that will be selected from the remote. For example, if you select LSB from the remote, then AM from the radio front panel, the next press on the remote will take you USB. This is a normal condition.

TROUBLESHOOTING

The IR Remote Adapter accessory should provide years of reliable service. There are no internal batteries to wear out, and no adjustments or user-replaceable components in side.

Most Universal Remotes are capable of controlling multiple devices, such as DVD players, cable boxes, etc. If the remote stops working, be sure it's in the TV mode.

If the radio stops responding to the remote, and you've verified it is in the TV mode, make sure the batteries in the remote are good.

Be sure there is nothing blocking the opening in the adapter on the opposite end from the cord. This is where the infrared signal from the remote is detected, and needs a direct path between them. Range should be at least 20 feet.

If operation become erratic, press the Dot key [.] two or three times to clear the radio's digit buffer. If this fails to restore proper operation, switch off the receiver and then back on.

If multiple digits appear when as each key is pressed, try powering the receiver off of internal AA batteries. If operation is normal with battery power, try replacing the AC power supply with one that has sufficient filtering and voltage regulation. We have seen erratic operation even with an original Lowe KPAD-1 when a low quality wall-wart type power supply is used to power the receiver.

If problems still continue, please contact me at via email or telephone.

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