

## Back-to-back simplex radios for bi-directional cross-band repeat

The NHRC-7 can be used to build an interoperability bridge using two inexpensive mobile radios as a bi-directional cross-band repeater. In this configuration, receiver 1's audio is routed to transmitter 2, and receiver 2's audio is routed to transmitter 1.

This is the factory default power-up configuration for NHRC-7s with firmware version 1.21 or newer. In addition, this configuration is stored in the factory default for saved setup number 1.

This table lists the Control Operator settings needed for setting up a NHRC-7 for a bi-directional cross-band repeat.

Group	Item	Setting	Description
0	0	1	Receiver 1 Enable
0	6	0	Receiver 1 into Transmitter 1 off/disabled
0	7	1	Receiver 1 into Transmitter 2
2	0	1	Receiver 2 Enable
2	6	1	Receiver 2 into Transmitter 1
2	7	0	Receiver 2 into Transmitter 2 off/disabled
4	0	1	Transmitter 1 Transmit Enable
4	1	0	Transmitter 1 Hang Time Disabled
4	5	0	Transmitter 1 Duplex Disabled
4	6	0	Transmitter 1 Receiver 1 Courtesy Tone Disabled
4	7	0	Transmitter 1 Receiver 2 Courtesy Tone Disabled
5	0	1	Transmitter 2 Transmit Enable
5	1	0	Transmitter 2 Hang Time Disabled
5	5	0	Transmitter 2 Duplex Disabled
5	6	0	Transmitter 2 Receiver 1 Courtesy Tone Disabled
5	7	0	Transmitter 2 Receiver 2 Courtesy Tone Disabled