



APPLICATION NOTE

APN-3240-102

NCS-3240 Multi-Switcher / NCS-3203 Multi-Rx II Configuration

Introduction

The NCS-3240 Multi-Switcher allows the operator to monitor the receive audio from only the *selected* radio while the Unselected radios remain muted. The receive audio switching is passive with no amplification or processing. For those who would like the option of monitoring any or all of the four connected radios, the addition of the NCS-3203 Multi-Rx II allows the operator to have full control of the receive audio from all four radios.

Operation

When the control lines are connected between the Multi-Switcher and the Multi-Rx II and the **Selected Audio** rotary switch is set to the “A” (automatic) position, the radio selected on the Multi-Switcher causes the receive audio for that radio to become the *Selected* radio on the Multi-Rx II and is output to the *Selected* speaker output. The receive audio signals from the other three radios are mixed together and is routed to the *Unselected* speaker output.

The volume of the *Selected* speaker audio and *Unselected* speaker audio can be adjusted independently to suite the operator. Additionally, any or all of the *Unselected* radios can be independently muted using the **Unselected Radio Mute** buttons. The Multi-Rx II also allows the speakers to be turned off if the use of headphones or a headset is desired. The **Phones** jack provides stereo audio with *Selected* audio in one earpiece and *Unselected* audio in the other earpiece. By switching from the Stereo to the Mono mode the *Selected* audio is heard in both earpieces.

The flexibility of the Multi-Rx II gives the operator full control of the receive audio from all four connected radios and when combined with the Multi-Switcher provides an excellent multi-radio operating environment.

Wiring Configuration

Eight cables are required for connecting the Multi-Rx II to the Multi-Switcher and the Multi-Rx II to the four transceiver's speaker out jacks. The table below provides a description of the required cables.

Purpose	Description	NCS Model No.	Qty Required (4 radios)
Control Cable	RCA Phono Plug to RCA Phone Plug	NCS-P2P	4
Speaker Cable	RCA Phono Plug to 3.5 mm Phone Plug	NCS-P2PH35	4

Figure 1 shows the connection of these cables. For clarity the Multi-Switcher radio interface cables are not shown.

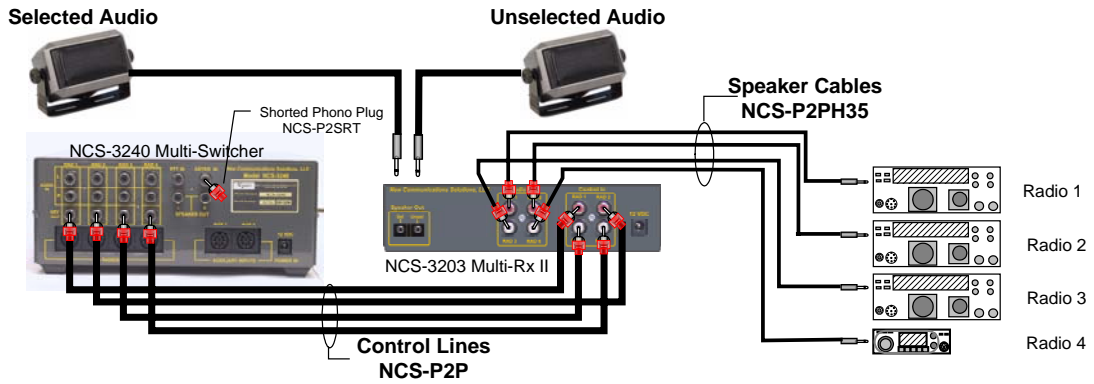


Figure 1, Multi-Switcher / Multi-Rx II Configuration Diagram



A Great Combination !

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"All at the Push of a Button"