

Cable Kit 3035/02 Interface 3009/38

Mimer SoftRadio – Kenwood NX-5800-series

Remote functionality

This cable kit will together with the Mimer Network Interface 3009/38 give remote control of the radios audio and PTT functions.

It will also give a Virtual Control Head with a limited set off functions. Please see webpage for details.



Virtual Control Head

Radio programming

- GPIO Pin 13 shall be programmed for external PTT active low.
- The External PTT (voice) shall be connected to the MI2 line.
- Data settings, see attached screen shot.
- To avoid audio in the fixed radio speaker, program minimum volume according to attached screenshot and set the radios volume control to zero.

Apart from that, no special programming is needed in the radio.

Radio Hardware setting

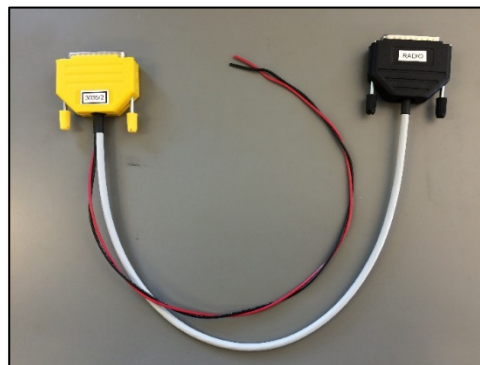
There are no hardware changes needed.

Cable Kit

The yellow connector to the interface, and the black connector to the radio!

The red and black wires shall be connected to 12VDC, red is positive.

The network interface consumes max 0,3A.



*CableKit 3035/02 for the
Kenwood NX-5800 series*

Screen shots from the radios programming software

Microphone and PTT settings

Extended Function

[+] [-] AUX Remote Zone-Channel Modulation Line Mobile Function

AUX

Pin No.	I/O	Function	Active	Debounce
DB-25 4pin	Output	None	Low	<input type="checkbox"/>
DB-25 8pin	Output	None	Low	<input type="checkbox"/>
DB-25 12pin	Input	None	Low	<input type="checkbox"/>
DB-25 13pin	Input	External PTT (Voice)	Low	<input checked="" type="checkbox"/>
DB-25 15pin	Output	None	Low	<input type="checkbox"/>
DB-25 16pin	Output	None	Low	<input type="checkbox"/>
DB-25 20pin	Output	None	Low	<input type="checkbox"/>
DB-25 21pin	Input	None	Low	<input type="checkbox"/>
DB-25 22pin	Output	None	Low	<input type="checkbox"/>
DB-25 23pin	Input	None	Low	<input type="checkbox"/>
DB-25 24pin	Input	None	Low	<input type="checkbox"/>
Control Head 1 AUX Input 1	Input	None	Low	<input type="checkbox"/>
Control Head 1 AUX Input 2	Input	None	Low	<input type="checkbox"/>
Control Head 1 AUX Output 1	Output	None	Low	<input type="checkbox"/>
Control Head 1 AUX Output 2	Output	None	Low	<input type="checkbox"/>

Extended Function

[+] [-] AUX Remote Zone-Channel Modulation Line Mobile Function

Modulation Line

PTT	Mic Line	MI2 Line	DI Line	with QT/DQT	with STE	Control Head Mic Input
External PTT (Voice)	Disconnect	Connect	Disconnect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Modular Jack
Data PTT	Disconnect	Disconnect	Connect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Modular Jack

Modulation Line by External PTT (Voice)

Auto Microphone 7 Select

Data settings

- Set COM Port 2 as below
- PC Interface Protocol to Version 2
- Tick the box for J Command Serial Output

COM port No.	Function	Polarity	Stop Bit	Baud Rate	Flow Control
COM port 0	None	Normal	2	9600	None
COM port 1	None	Normal	2	9600	None
COM port 2	Data	Normal	2	9600	None
COM port Bluetooth	None				None

COM Port Priority: Serial Data

PC Interface Protocol: Version 2

Serial Output

J Command Serial Output

Serial Input

Data Override

Volume

To avoid that the fixed radios loudspeaker is open, do the following settings.

Program Audio Volume to “Lowest Limit” and set the Minimum Volume to zero.

Turn the volume down to zero on the radios front panel and then turn the radio off and on again.

The screenshot shows the 'Sound' configuration menu. It is divided into two main sections: 'Tone Volume' and 'Audio Volume'. The 'Tone Volume' section includes settings for Tone Volume Offset (0), Power-on Tone (Current), Control Tone (Current), Warning Tone (Current), Alert Tone (Current), Sidetone (Current), Locator Tone (Current), Low Volume Level (Fixed Volume) (10), and High Volume Level (Fixed Volume) (31). The 'Audio Volume' section includes Maximum Volume (31), Minimum Volume Type (Lowest Limit), and Minimum Volume (0). The 'Minimum Volume Type' dropdown and the 'Minimum Volume' field are highlighted with a red box. At the bottom, there are settings for Transmit Tone Level [dB] (0), Audio Profile Number (1), and Audio Profile Name (Profile 1).

Section	Parameter	Value
Tone Volume	Tone Volume Offset	0
	Power-on Tone	Current
	Control Tone	Current
	Warning Tone	Current
	Alert Tone	Current
	Sidetone	Current
	Locator Tone	Current
	Low Volume Level (Fixed Volume)	10
	High Volume Level (Fixed Volume)	31
Audio Volume	Maximum Volume	31
	Minimum Volume Type	Lowest Limit
	Minimum Volume	0
Transmit Tone Level [dB]		0
Audio Profile Number		1
Audio Profile Name		Profile 1

Virtual Control Head functions

