

## Cable Kit 3043/02 Interface 3009/24

### Mimer SoftRadio - Motorola MTM5400 (and MTM5200)

#### Remote functionality

This cable kit will together with the Mimer Network Interface give remote control of the radios audio and PTT functions and display a virtual control head on Mimer SoftRadio.



*The cable kit has an extra lead for triggering emergency on the radios PIN23.*

The virtual control heads functionality is as far as the PEI protocol admits. More details on the functionality can be found here:

[www.lse.se/mtm](http://www.lse.se/mtm)

#### Radio programming

- The PEI-port baud rate shall be set to 57600.  
No parity, No flow control, 1 stop bit, 8 data bits
- The audio ports in the back of the radio shall be active.
- External alarm (horn & lights) shall be active if you want SoftRadio to react when a private call is received.

Please see the next pages for screen shots of these settings.

#### Scanning

The SoftRadio application uses its own talk group scanning feature. This is due to the fact that the radios built in scanning functionality cannot be accessed remotely through the PEI-port.

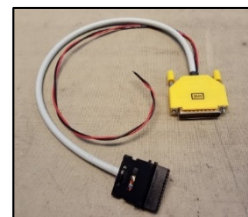
*For this reason, do not enter scan lists from the radios ordinary control head and do not switch scan lists on/off from the ordinary control head.*

If you need scanning, do all your settings from the virtual control head on the operator PC.

#### Power

The red wire shall be connected to +12VDC and the black to ground.

The network interface consumes max 0,3A.



Cable Kit MTM5400

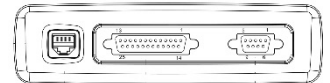
### Hardware configuration

A radio control head can be mounted, but does not need to be mounted.

The cable kit connects to the back port on the radio, both for audio and PEI. This will be right for radios with the control head mounted directly on the transceiver and for radios with the “Remote Head” (PMLN4904) mounted on the transceiver.



Radios with the “Data Expansion Head” (PMLN4908) mounted, automatically switches the PEI port to the DB9 connector on the front, and another type of interface and cable kit needs to be used. (Same as MTM5500)



### Screen Shots of radio settings:

	Field Name	Field Value	Set Default
▶ 1	Baud Rate	57600	Set Default
2	Parity Bit	PARITY_NONE	Set Default
3	Flow Control	No flow control	Set Default
4	Stop Bits	1	Set Default
5	Data Bits	8	Set Default

### Data Services / PEI Parameters

	Field Name	Field Value	Set Default
▶1	Group	<input checked="" type="checkbox"/>	
2	Status	<input checked="" type="checkbox"/>	
3	Targeted Status Support	<input type="checkbox"/>	
4	Semi-Duplex Private Call	<input checked="" type="checkbox"/>	
5	Private Duplex	<input checked="" type="checkbox"/>	
6	Direct Mode (DMO)	<input checked="" type="checkbox"/>	
7	Direct Mode (DMO) Reservation	<input checked="" type="checkbox"/>	
8	Telephone Interconnect	<input checked="" type="checkbox"/>	
9	MS User Application Support Pre-defined Template	<input checked="" type="checkbox"/>	
10	Mail In	<input checked="" type="checkbox"/>	
11	Mail Out	<input checked="" type="checkbox"/>	
12	External Device	<input checked="" type="checkbox"/>	
13	Test Page	<input type="checkbox"/>	
14	Hom and Light	<input checked="" type="checkbox"/>	
15	PABX	<input checked="" type="checkbox"/>	
16	Talkgroup Scan	<input checked="" type="checkbox"/>	

### Feature Flags

For the audio in the radio back port there are different settings in different generations of the CPS.

**Old version:**

	Field Name	Field Value	Set Default
1	Active Accessory Selection	Control Head Accessory	Set Default
2	Front (10-pin MMP) GCAI Core Accessory Type	Fist Mic	Set Default
3	Rear (25-pin MMP) GCAI Core Accessory Type	Fist Mic	Set Default
4	Transceiver Accessory Type	Visor Mic	Set Default
5	Control Head Rear Alternative Accessory Connected	<input type="checkbox"/>	
6	Transceiver IMPRES Visor Mic Connected	<input type="checkbox"/>	
7	Transceiver Hands Free Mic Selection	<input type="checkbox"/>	
8	Transceiver Hands Free Mic Voltage	Normal	Set Default
9	Telephone Handset Enable External Speaker on Hook for Group Mode	Enabled	Set Default
10	Telephone Handset Enable External Speaker on Hook for Private Mode	Enabled	Set Default
11	Rx Audio Line Output Type	0dB Point	Set Default
12	Preferred Emergency Accry - Control Head	Last Active Mic	Set Default
13	Preferred Emergency Accry - Slave Control Head	Last Active Mic	
14	Preferred Emergency Accry - Transceiver	Last Active Mic	Set Default
15	Preferred Output Audio for FDPC	Speaker	Set Default
16	High / Low Switching of Audio	<input type="checkbox"/>	

*Buttons, Keys and Accessories / Accessory*

**Newer version, from v10.6.10:**

	Field Name	Field Value	Set Default
1	Rx Audio Line Output Type	0dB Point	Set Default
2	Preferred Emergency Accry - Transceiver	Last Active Mic	Set Default
3	Visor Mic Rear Accry Interface	MIC1/EXT_MIC (pin #13 RAC)	

	Field Name	Field Value	Set Default
1	Visor Mic Rear Accry	PMMN4087	
2	Handset Rear Accry	Unassigned	
3	Fist Mic Rear Accry	Unassigned	Set Default
4	Ext Speaker Rear Accry	RSN4002	
5	Line In Rear Accry	Unassigned	
6	Expansion Mic	Unassigned	Set Default

*Transceiver Accessories Setup / Settings*

### Sound Echo Problems

Some customers have reported that they can hear their own voice echo back in the speakers when transmitting on the MTM5400.

We have found that there is a setting in the MTM5400 CPS that causes this.

Untick the box “Call Recorder Output” under Audio Settings / Routing. This shall take care of the problem.

### Virtual Control Head functions

