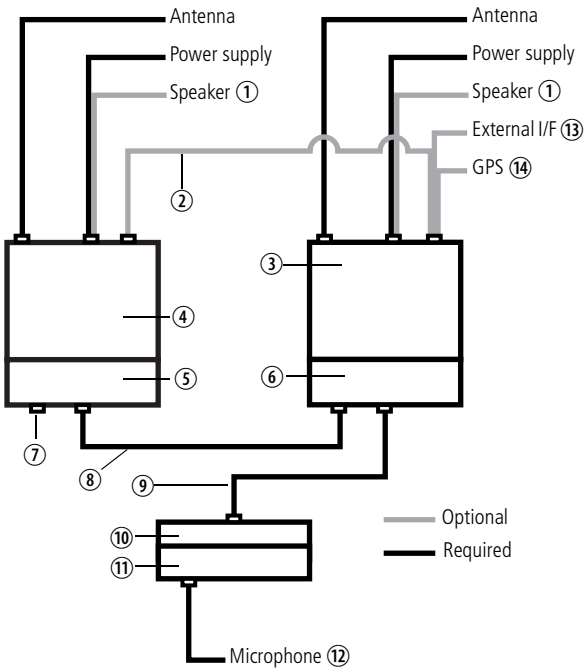
Getting Started Guide

This guide contains a summary of important tasks when setting up a TM8260 radio system. You must read this information before attempting to install and program TM8260 radios. This guide, and all other technical documentation, is available from the Technical Support web site: http://support.taitworld.com

Figure 1: TM8260 installation overview



① External speaker (x2) (TMAA10-03)
② Cross-band linking, GPS, and external interface cable (TMAA04-06)
③ Primary radio body (e.g. TMAB22-B100B)
④ Second radio body (e.g. TMAB22-H600B)
⑤ Body remote interface (TMAC31-0T)
⑥ Body remote interface with link J4 removed
⑦ Connector seal
⑧ Radio connecting cable, maximum length 1.5m (TMAA04-03)
⑨ Radio/control head connecting cable, maximum length 6m (TMAA04-01)
⑩ Control head remote interface (TMAA03-03A)
⑪ Control head (TMAC40-1T)
⑫ Any supported microphone (e.g. keypad microphone TMAA02-08)
⑬ External auxiliary interface (e.g. external alert)
⑭ GPS antenna/receiver (TMAA05-01) with plate mount (TMAA05-03) or magnetic mount (TMAA05-04)

For more information: refer to the TM8260 installation and programming guide (MMA-00041-xx).

Downloading MAC addresses

You must download a configuration table with unique MAC (media access control) addresses to all devices, to enable you to read, program, calibrate, and upgrade all devices in the system via the microphone port. Complete the following steps after unpacking the radio system, but **before** installing the remote interfaces and assembling and mounting the system.

1. From the Programming Application, click Tools > **Multiple Device Configuration**.
2. Make sure a table similar to the following is displayed in the dialog. Either:
   - click File > **Open**, and open the device configuration file for the system, or
   - click Edit > **Add Device** and define the table.

Type	Name	MAC	Priority
Head (TMAC40)	Head	2	2
Body (TMAB22)	VHF Radio	1	1
Body (TMAB22)	UHF Radio	3	3

3. Connect the control head ⑪ loom to the radio body that corresponds to the highest MAC address (in the above example, the UHF radio), and apply power.

Important: Connect **one** radio body at a time. Do not attempt to download MAC addresses if both radio bodies are connected together and have power applied.

4. Connect the control head to your PC.
5. Click Radio > **Download MAC Address**, and download the device configuration table to device TMAB22 with the higher address.
6. Connect the control head loom to the radio body that corresponds to the lowest MAC address (in the above example, the VHF radio), and apply power.
7. Click Radio > **Download MAC Address** again, and download the same table to device TMAB22 with the lower address.
8. Click Radio > **Download MAC Address** a third time, and download the same table to the control head (device TMAC40).
9. Check that all red indicators in the table are now green.

For more information: refer to the online help (Help > Contents and Index) available from this dialog.

Removing link J4

The system uses a shorting link (J4) to terminate the end of the remote head network. This is fitted by default for all body remote interfaces. The remote interface connected to the control head ⑥ (see Figure 1 on page 1) must have this link removed before installation. J4 is located between the two RJ45 connectors (see Figure 2 on page 3), and can be removed without removing the PCB.

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Figure 2: Location of link J4

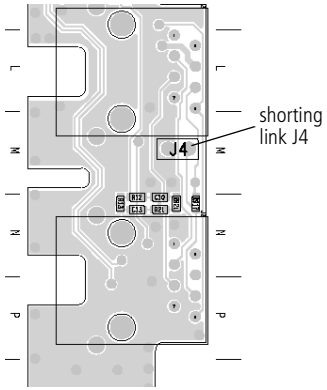
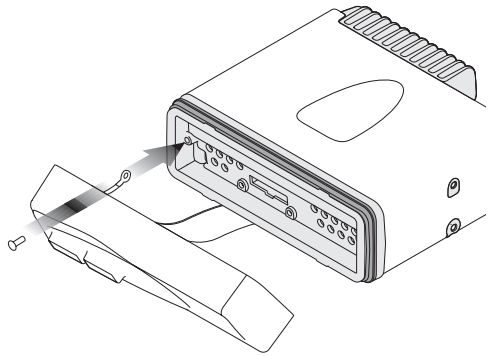


Figure 3: Attaching the earthing strap



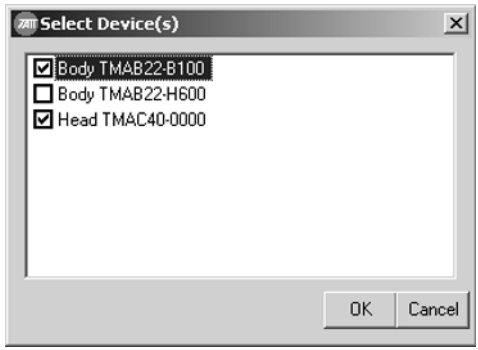
Attaching the earthing strap

For each body remote interface ⑥ and ⑦ (see Figure 1 on page 1), make sure the earthing strap is attached onto the left screw boss on the radio chassis (Figure 3).

Programming the radio system

After you have downloaded MAC addresses and assembled the system, you can select individual devices to read or program. Each time you attempt to communicate with the radio system, the Select Device(s) dialog appears (Figure 4).

Figure 4: Select Device(s) dialog



You cannot select all three devices at the same time.

Programming the radio system is a two-step process:

1. Load the appropriate file, and program one radio body (Body TMAB22-)
2. Load a different file, and program the other radio body (Body TMAB22-) and the head (TMAC40-)

The programming configuration of all devices must be as similar as possible, with the exception of the operating band, radio name, channels and groups. If features relating to the user interface (such as function keys, radio menus, and backlighting), emergency operation, and the security lock are different, there may be unexpected behaviour when powering on or switching between the radios.

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You must program the following settings for all devices in the system:

Field Name	Location	Value
Power On Mode	Global Features > Start-up form	Power On
Reset On Error	Global Features > Start-up form	Selected

Important: Trunked MPT settings are currently not supported with TM8260 radio systems. Do not attempt to program these fields or enable the optional feature.

For more information: refer to the online help (Help > Contents and Index) available from the programming application.

Mounting the control head and radio bodies

Use the bracket and screws provided to mount the control head.

Mount the two radio bodies no further than 1.5 metres apart, using the preferred mounting method (such as U-brackets, slide-in cradles, or security brackets).

For more information: refer to the instructions included with the cradle or bracket installation kit, and the TM8260 installation and programming guide (MMA-00041-xx).

Accessing TM8260 features using the control head

Use the function key programmed for "Switch Active Radio" to change the foreground radio. Use the function key programmed for "Dual Body Mode" to toggle between dual receive and dual transmit. Use the function key programmed for "Single Body Mode" to return to single receive and transmit. Use the programmed function key or the radio's main menu to turn cross-band repeater mode on or off.

For more information: refer to the TM8260 radio user's guide (MMA-00040-xx).

Cross-band repeater and dual-body GPS operation

To enable cross-band repeater operation, a linking cable ② must be attached between the auxiliary connectors of the radio bodies. Programmable I/O and external PTT 1 settings must also be programmed using the programming application. If the cable's auxiliary connectors have jackscrew-type locks, make sure they are tightly fastened.

To enable dual-body GPS operation, the linking cable TMAA04-06 also provides a single-point connection to a GPS antenna ⑭. The GPS connector is the correct type for the antenna, therefore the adaptor that is supplied with the GPS antenna is not required. For GPS information to be displayed on the radio, you must purchase and program the software feature enabling (SFE) key for GPS Support (TMAS015).

For more information: refer to the installation instructions included with the cross-band linking cable (IPN: 402-00032-xx).

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