

T02-00004-0101/T02-00004-0102 Handset Installation Instructions



Introduction

The T02-00004-0101/T02-00004-0102 handsets improve the audio quality in noisy environments, and provide the user with privacy (Private Handset Mode programmed).

The T02-00004-0101 has a 10 ft (3 m) handset-to-radio cable, and the T02-00004-0102 has a 20 ft (6 m) cable. The kits are otherwise identical.

When your radio receives a call and the handset is mounted in its locking cradle, you can hear the call from your radio's internal speaker, and also from any connected remote speaker.

If you remove the handset from its cradle when you receive a call, you can hear the call from your radio's internal speaker, from any connected remote speaker, and from the handset earpiece.

If private handset mode is programmed, the radio's internal and external speakers are muted, and the call can only be heard from the handset earpiece.

The handset uses an electret microphone, and comes with the handset-to-radio cord pre-wired to the handset mounting plate.



- i** If fitting the handset to a TM8200 remote installation that uses components from kit TMAA03-16, the existing head and body remote interfaces don't support audio feed to the microphone socket and therefore can't be used with the handset. If fitted on the radio, the TMAA03-16 kit can be identified by radio body interface, which doesn't have a connector fitted on the right-hand port. For correct operation, the installation should be upgraded to one of the enhanced remote kits such as TMAA03-19.

Handset Installation

- 1 Press the push-button and remove the handset from the locking cradle.
- 2 Disassemble the locking cradle by removing the four locking cradle screws.
- 3 Drill a hole for the handset-to-radio cord in the chosen mounting surface, and pass the cord through the hole. The hole must be large enough for the grommet to fit through.

If a smaller hole is required, remove the handset-to-radio cord from the handset PCB connector, and drill a hole in the mounting surface just large enough to fit the handset to radio cord.

Pass the cord through the hole, then reconnect the cord to the handset PCB connector using the wiring instructions in the diagram “Handset PCB connector wiring”, on page 2.

- 4 Screw the handset mounting plate to the required mounting surface. Note that mounting screws are not provided in this kit.
- 5 Clamp the top part of the locking cradle onto the mounting plate, and secure it with the four locking cradle screws.

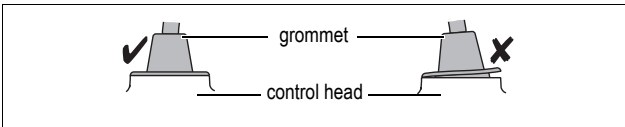
Connecting the Handset to the Radio

Notice The microphone-socket grommet must be installed whenever the handset-to-radio cord is plugged into the microphone socket. When installed, the grommet has two functions:

- to prevent damage to the microphone socket when there is movement of the handset-to-radio cord, and
- to ensure that the control head is sealed against water, dust and other environmental hazards.

- 1 Plug the handset-to-radio cord into the microphone socket on the radio control head.
- 2 Slide the grommet along the cord and push two adjacent corners of the grommet into the microphone socket cavity.
- 3 Squeeze the grommet and push the remaining corners into position.
- 4 Check that the grommet is seated correctly in the cavity, as shown in the following diagram.

Correct microphone-socket grommet seating




Handset PCB connector wiring

	Handset PCB Connector	Color	Reference
	2	violet	①
	3	blue	②
	8	brown	③
	9	yellow	④
10	green	⑤	

Radio Programming for Private Handset Mode

If private handset mode is required, the radio needs to be programmed to mute the audio power amplifier when the handset is out of the cradle. The audio path is then only through the RX AUDIO line to the handset earpiece.

The following table shows the settings required in the Programmable I/O form of the radio's programming application. Refer to the online help of the programming application for more information.

-  If private handset mode is programmed, then no audio will be heard from the speakers if the handset is unplugged.

Private handset settings in the Programmable I/O form

Pin	Direction	Label	Action	Active	Debounce	Signal State	Mirrored To
CH_GPIO1	Input	C_HEAD	Force Audio PA Off	High	25	None	None

More Information

Refer to your radio provider for more information about this product.