

SET CHANNEL

- ❑ Press the Menu Button (**M**) once, "CHANNEL XX" is announced.
- ❑ Press the Up (\wedge) or Down (\vee) Button to sequence through the channels. Once the assigned channel is announced, immediately press the Enter Button (**PTT**) to finalize your selection.
- ❑ The user should hear "Logon OK", indicating the TPT is now ready for use.

VOX

VOX should be set to On for hands-free operation during normal conditions. VOX can be turned Off during extremely noisy environments and the user must press the Push-To-Talk Button (**PTT**) to transmit.

- ❑ To access the VOX Menu, press the Menu Button (**M**) twice. Press the Up (\wedge) or Down (\vee) Button to select either VOX On or Off, followed by the Enter Button (**PTT**) to confirm selection.

LED

- ❑ Set the LED to NORMAL. The LED should be set to NVG when night vision goggles are in use.
- ❑ Press the Menu Button (**M**) 3 times to access the LED menu. Use the Up (\wedge) or Down (\vee) Button to select NORMAL, HIGH, NVG, TIME or OFF as desired, followed by the Enter Button (**PTT**) to confirm selection.

HEADSET

- ❑ Press the Menu Button (**M**) until you hear "Headset."
- ❑ Press Up (\wedge) or Down (\vee) Button until desired headset is announced and press PTT to accept.

NORMAL/MONITOR MODE

Requirements

- Crew Station is set to Hot Mic or VOX to highest sensitivity.
- DPT/PIC interface to Crew Station Audio In/Audio Out line and discrete PTT line connected to Radio PTT.

Monitor Mode (Default)

- Use PTT and VOX to communicate between wireless Users only.
- Listen (Monitor) ICS audio.
- Use the Asterisk Button (*) to allow communication between wireless Users and selected Radios.

Normal Mode (hold Menu Button **M** for 3 seconds)

- Use PTT and VOX to communicate between wireless Users and wired ICS.
- Use the Asterisk Button (*) to allow communication between wireless Users and selected Radios.

MIC LEVEL

- ❑ Press the Menu Button (**M**) until "Mic Level" is heard.
- ❑ To increase microphone sensitivity, press the Up Button (\wedge) - "Plus one," "Plus two" etc. is heard.
- ❑ To decrease microphone sensitivity, press the Down Button (\vee) - "Minus one," "Minus two," etc., is heard.
- ❑ Press Enter Button (**PTT**) to finalize your selection.



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Misc-204



TruLink® Portable Transceiver Quick Reference Guide

780-1000-001-CF0118-M3, M5



TPT Button	Function
\wedge and \vee (held simultaneously)	Power On/Off
\wedge	Volume Up/Menu Change
\vee	Volume Down/Menu Change
M	Menu - Scrolls through Menu Options
*	Press to Speak to the Wired Intercom System
PTT	Push-To-Talk/Enter - Use as a Push-To-Talk button and to enter/confirm Menu Selections

OVERVIEW

The TruLink® system is a full-duplex intercom system, allowing multiple users to speak simultaneously.

The system has 50 channels (0-49). Up to 31 users can be logged on to any given channel. Up to 5 users can speak simultaneously.

The system consists of a network of users where one TruLink® Portable Transceiver (TPT) or the Dual Port Transceiver (DPT) acts as the network MASTER. The MASTER is the central point of the TruLink® network.

The DPT is used when connection to the aircraft's wired ICS is desired. As an alternative, the TruLink® system can act as a standalone wireless intercom system. In this case, a TPT can act as a network MASTER. All other TPTs are SLAVES to the MASTER unit. Only one MASTER should be set for each channel. If more than one MASTER exists on a channel, mis-operation will result.

The LED indicator is used as a visual reference and shows the status of the transceiver. The TPT's LED provides a double blink when used as MASTER. The LED provides a single blink when the TPT is used as SLAVE.

For a full explanation of TruLink's functionality, see the TruLink® Users Manual (TM115007) available at www.telephonics.com.

PRE-CHECK

Batteries must be fully charged prior to use.

- ❑ Ensure the Battery Type Switch, in the battery compartment, is in the proper position. The batteries recommended are Nickel Metal Hydride (NiMH) chemistry. Alkaline batteries may also be used, but the Battery Type Switch must be set accordingly. Alkaline batteries can not be recharged.
- ❑ Install batteries (3) in the back of the TPT. Battery life should be 6-10 hours depending on usage. The LED indicator on the face of the TPT will blink RED when the batteries are getting low, along with an audio warning "Battery Low" or "Battery Empty." Battery status 9-0 is announced within 60 seconds at startup. Use brand name, high-quality NiMH batteries only.
- ❑ All users should connect their headsets, and position the mic directly in front of their mouth allowing no more than 1/2-inch between the lips and microphone.

MENU OPTIONS

Prerecorded messages (SYNVOICE) will prompt you through the menu options.

CHANNEL

- Selects channel
- Available channels 0-49

MASTER or SLAVE

- One MASTER per channel
- Can be changed at startup only

VOX

- Voice activated transmit
- VOX ON for hands-free operation
- VOX OFF requires user to press PTT for transmission

LED

- Use NORMAL setting for daytime operations
- Use NVG setting for night vision goggle operations
- High, Time or Off settings are selectable

ORDER SYNCHRONIZE ACCESS POINT

- Not applicable without TruLink Access Point (TAP)

HEADSET

- Selects Headsets 1-4
 - Headset 1 – David Clark Dynamic H10-76 or equivalent
 - Headset 2 – David Clark Electret 40493G or equivalent
 - Headset 3 – Peltor Dynamic MT15H68FB or equivalent
 - Headset 4 – Sordin Electret SOR2495P or equivalent

MIC LEVEL

- Increases/decreases microphone sensitivity
- Used to optimize VOX operation for a wide range of microphone variations

NETWORK OPERATION

To operate TruLink® as a standalone system when communication to the aircraft is not desired:

- ❑ Connect the headset to the TPT. Turn on one TPT, select the desired channel and set as the MASTER. The user will hear a logon confirmation and channel number.
- ❑ All other TPTs, as needed, can now be turned on and set to the channel previously selected. After a few seconds, users will hear "Logon OK."

To operate the system when communication to the ICS is desired:

- ❑ Users must ensure that the DPT is logged on as MASTER, correctly connected to the ICS and confirm what channel it is on.
- ❑ Users must connect their headset, turn on their TPT and select the same channel as the DPT (MASTER). After a few seconds, users will hear "Logon OK." All users can now communicate between themselves and the crew members on the aircraft's wired intercom system.

SET MASTER/SLAVE

A TPT may be set as a MASTER if no DPT is present.

The Menu Button (**M**) allows the user to scroll through the Menu Options.

The user that is most likely to remain in the workgroup should start up their TPT first, and set as a MASTER. Only one TPT can be set to MASTER for a given channel. All other TPTs on a given channel shall remain SLAVE. MASTER can only be selected at start up. The MASTER user should ensure all other users in the group are aware of the assigned channel.

- ❑ The DPT, when used, is always default MASTER, especially when interfaced to the wired ICS.
- ❑ Turn on the TPT by pressing both the Up (**Λ**) and Down (**∇**) Volume Buttons until the LED remains on and then release. The user will hear an announcement "Channel XX, SLAVE."
- ❑ Press the Menu Button (**M**) twice, "SLAVE" will be announced. Press the Up (**Λ**) or Down (**∇**) Button until "MASTER" is announced and immediately press the Enter Button (**PTT**) to enter the command to set the MASTER.

NOTE: If the Enter Button (**PTT**) is not pressed within 3 seconds, the menu is exited and no changes are made.

- ❑ Wait for a "Logon OK" announcement to confirm the TPT is ready for use. A SLAVE TPT will only acquire a "Logon OK" confirmation if on the same channel as a MASTER.