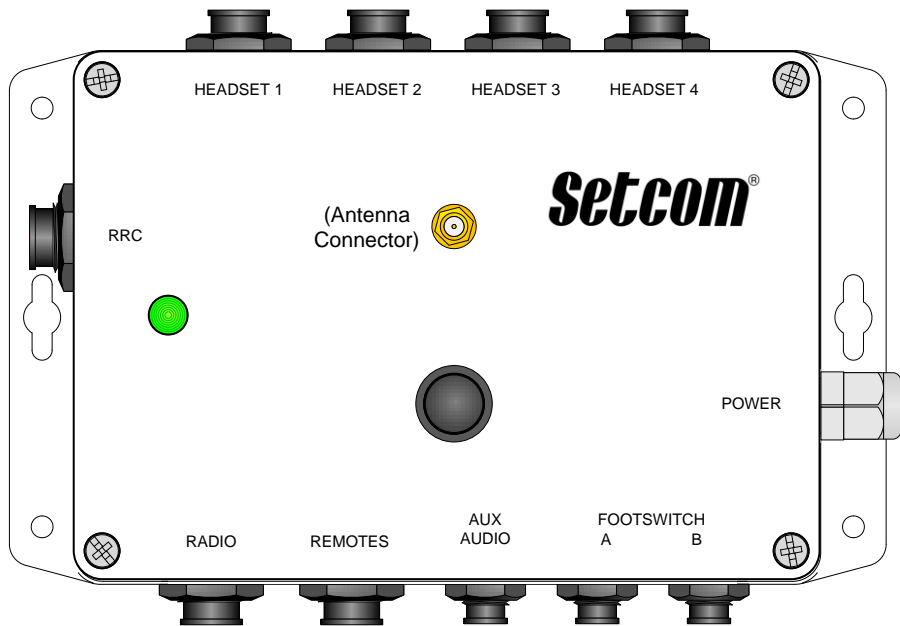


IM-977W4

INSTALLATION AND USERS GUIDE



28-2017
Wireless Antenna

To install antenna, carefully thread it onto the gold connector on top of IM-950W4

Questions or technical issues? Please call:

TECH SUPPORT: 650-965-8020 ext. 703

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The IM-977W4 is a Waterproof Radio Interface and full-duplex Intercom with the following features:

- Single Radio Interface, Fully Adjustable RX/TX levels, use with RCB or RC cable types
- 4 Radio Transmit Circuits, TRS Headset Jacks (extension TX station RS-960 is available)
- 1 Wireless Headset Transmit circuit, uses CSB-900W4 Wireless Headset
- Remotes Port for Up to 4 Intercom-Only Positions
- 2 PTT Footswitch or Pushbutton Station Ports:
A: assignable to HS1 or HS2
B: assignable to HS3 or HS4
(Footswitch is FS-950, Pushbutton is PBS-950)
- AUX Audio Input (requires 25-0088 cable) (see notes on page 3)
- Automatic AUX Muting on PTT or Radio RX, 3-second delayed recovery from AUX Mute (either PTT or RX mute function can be turned off)
- Fully Isolated DC Power for Noise Immunity, operates on 12 to 24 Volts DC
- TX Audio PTT Lockout, only 1 user can transmit at any time, and only that users' voice is sent to radio
- Can connect to 2 radios with RRC-950 (requires 25-0108 cable)

IM-977W4 Typical Installation

Radio, Headsets, and Power

Refer to the 900W4-Base instructions, or the RS-960 User Guide for more information on those products, such as required cables and general installation notes.

If a 900W4-Base is to be used, it should be at least 3 feet away from the IM-977W4 to prevent interference.

If 2 radios are required, a Setcom RRC-950 can be connected to the RRC Jack. Refer to the RRC-950 User Guide for more information.

Mount the IM-977W4 using the 4 small mounting holes or the 2 larger holes on the enclosure flanges. Mounting screws are supplied by user.

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TX Headsets can be plugged into any of the headset jacks. A 900W4-Base wireless base station, or an RS-960 Remote Transmit Station, can also be plugged in to any of the headset jacks.

CSB-970x or
other TX
Headset with
Conxall plug

DC Power Cable

RED = +V

GREEN = GROUND

Connect the DC Power cable to a 12 to 24 VDC power connection. The IM-977W4 has an internal 1A ATO fuse, but it is recommended to connect the unit to a fused power source.

RC or RCB
Radio Cable

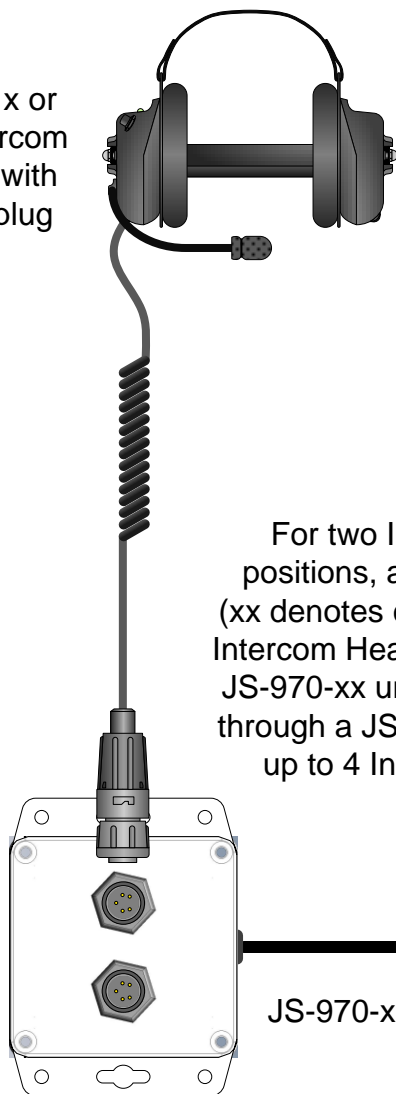
Mobile Radio

Radio Cable part number is determined by radio manufacturer, model number, and length of cable.

IM-977 Typical Installation

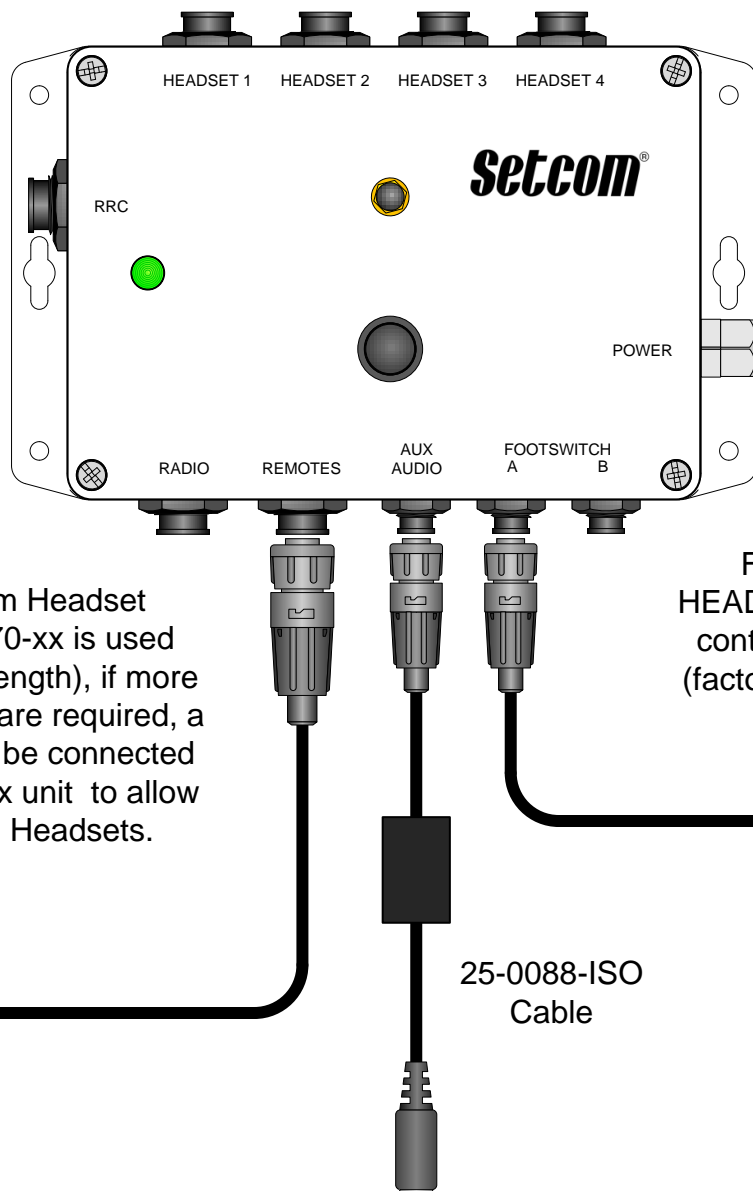
Remotes, Aux Audio, and
PTT Footswitches

CSB-971x or
other Intercom
Headset with
Conxall plug



For two Intercom Headset positions, a JS-970-xx is used (xx denotes cable length), if more Intercom Headsets are required, a JS-970-xx unit can be connected through a JS-971-xx unit to allow up to 4 Intercom Headsets.

JS-970-xx



1 or 2 Footswitches or
Pushbutton PTT stations can
be connected to the IM-977.

Footswitch input A can control either
HEADSET 1 or HEADSET 2, and input B can
control either HEADSET 3 or HEADSET 4.
(factory defaults are input A set to Headset 1
and input B set to HEADSET 3).

FS-950 PTT Footswitch
(Pushbutton PTT switch
PBS-950 option is available)

NOTE:

The AUX AUDIO input is not intended for use as an additional radio receive input, it will not support BTL-type (Balanced) speaker outputs from radios.

It will support mono or stereo Single-Ended line level audio such as that from an audio device headphone output, or certain types of radios with Single-Ended audio out such as a scanner.

If there are questions, consult Setcom Tech Support.

An Auxiliary Audio source such as an MP3 player or a portable CD player can be connected to the IM-950 through use of the 25-0088-ISO Cable and a 3.5mm male-to-male patch cable (user supplied).
Volume is controlled by the Audio source.

Questions or technical issues? Please call:

TECH SUPPORT: 650-965-8020 ext. 703

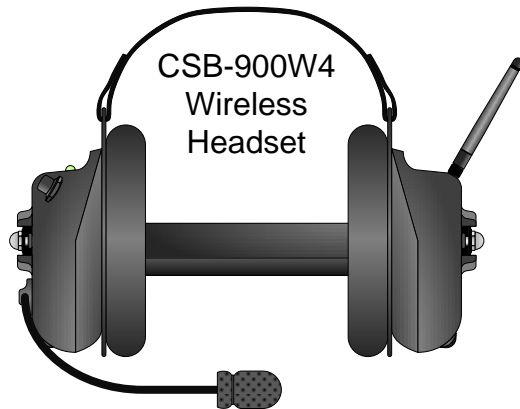
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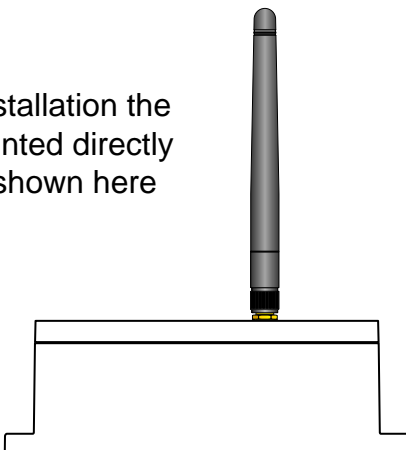
IM-977W4 Wireless Notes

See pages 5 and 6 for Pairing
information for the IM-977W4 and
a CSB-900W4 Wireless Headset

If a 900W4-Base is to be used with the
IM-977W4, it should be located at least 3
feet away to prevent interference.



In a typical installation the
antenna is pointed directly
upwards as shown here

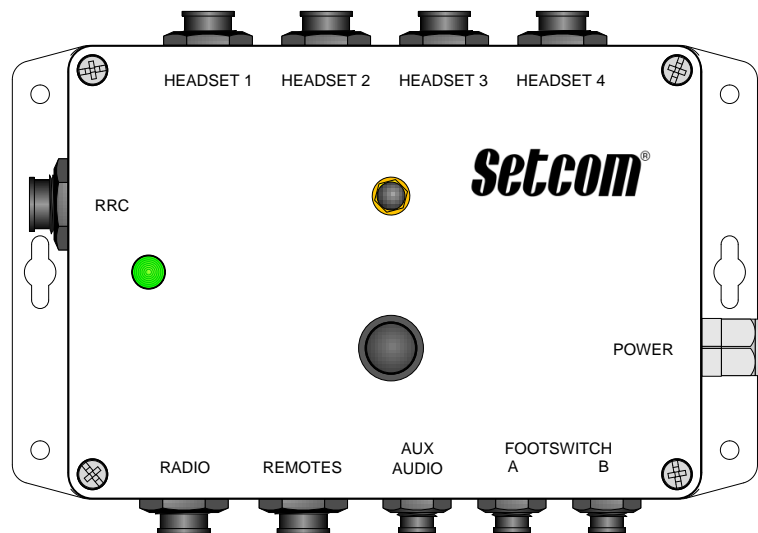


Questions or technical issues? Please call:

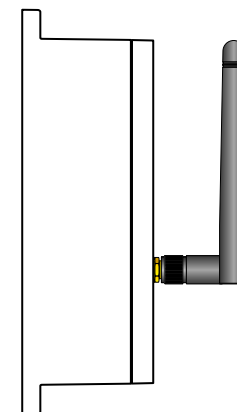
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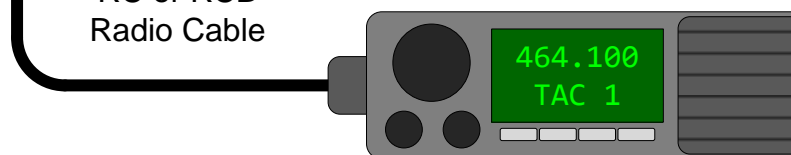
If the IM-977W4 must be installed
on a vertical surface, it is
recommended to fold the antenna
so the main shaft is vertical



The system will work
with the antenna
oriented horizontally,
but effective range will
be somewhat reduced

RC or RCB
Radio Cable

Mobile Radio



Radio Cable part number is determined by radio
manufacturer, model number, and length of cable.

IM-977W4 Pairing with Wireless Headset – Headset Information



The CSB-900W4 Wireless Headset is shipped already paired to the IM-977W4.

See below for pairing information if needed.

- The IM-977W4 and a wireless headset will retain pairing identity whenever powered off and power on again.
- Turn on the headset by turning the Volume Control knob Clockwise. The headset will beep 1 to 3 times indicating battery charge level:
 - 0 beeps = fully discharged battery / charging required
 - 1 beep = low battery / charging required
 - 2 beeps = moderate charge remaining
 - 3 beeps = full charge
- When powered on, the headset will link to the IM-977W4 within about 5 seconds, then will beep 3 more times, from a low tone to a high tone, indicating the link was successful. The LED's on the headset and the IM-977W4 will both slowly flash Green indicating linked status.

If the headset needs to be re-paired with the IM-977W4, or paired with another IM-977W4:

- 1) Disconnect the Portable Radio Adaptor Cable (PRAC) if one is installed (re-connect after pairing).
- 2) Set the IM-977W4 for Pairing Mode (press and hold Pairing Button about 3 seconds, until Status LED slowly flashes Amber).
- 3) Turn on the wireless headset, and after the charge indicator beeps press and hold the 2 PTT buttons on the bottom of the cups at the same time, after a few seconds there will be a low beep, then release the buttons.
- 4) After a few seconds the headset will beep again 3 times, from low to high pitch, indicating that the pairing was successful. The LED's on the headset and the IM-977W4 should now be slowly flashing Green.

For further details and instructions, refer to the CSB-900W4 Wireless Headset User Guide, found on the Setcom website: **www.setcomcorp.com**. A video of the pairing process can be found at: www.setcomcorp.com/cr/900wireless.php.

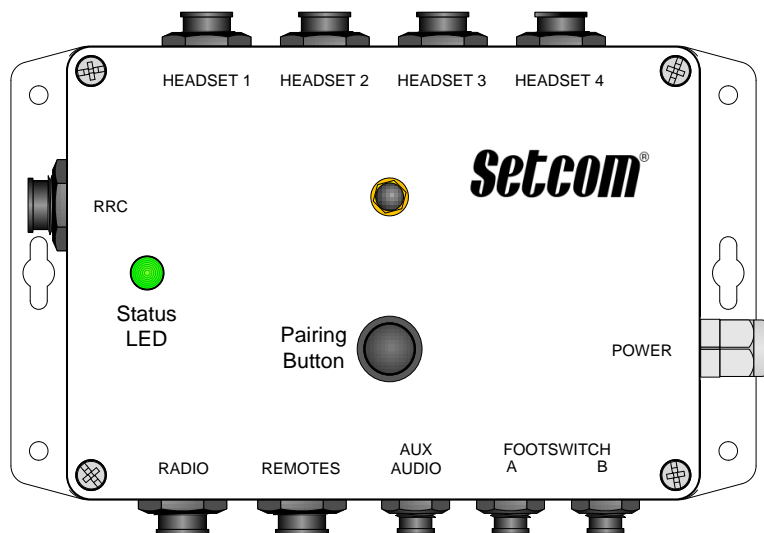
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IM-977W4 Pairing with Wireless Headset – IM-977W4 Information



When the IM-977W4 is first powered on, the Status LED will be steady Green – this indicates IDLE state.

The IM-977W4 and a wireless headset will retain pairing identity whenever powered off and power on again.

See page 5 for instructions on how to pair a wireless headset with the IM-977W4.

Status LED Color Codes:

Steady Green	= power on, unit idle
Slow Flashing Green	= power on, linked with headset
Slow Flashing Amber	= pairing mode, unit is seeking headset
Amber with Green Flashes	= headset Mobile PTT is pressed

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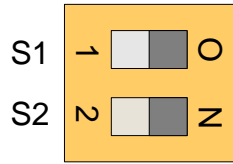
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IM-977W4 Adjustments

RX Audio, Muting Control

Loosen top cover screws and carefully remove cover to make adjustments

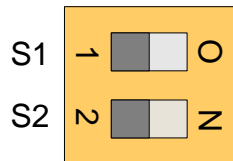
RX RANGE
SW4
(shown enlarged)



OFF \longleftrightarrow ON

- To increase RX Level, set S1 to ON
- To decrease RX level, set S2 to ON
- Do not set both sections to ON, use only one section or the other

MUTING CONTROL
SW2
(shown enlarged)

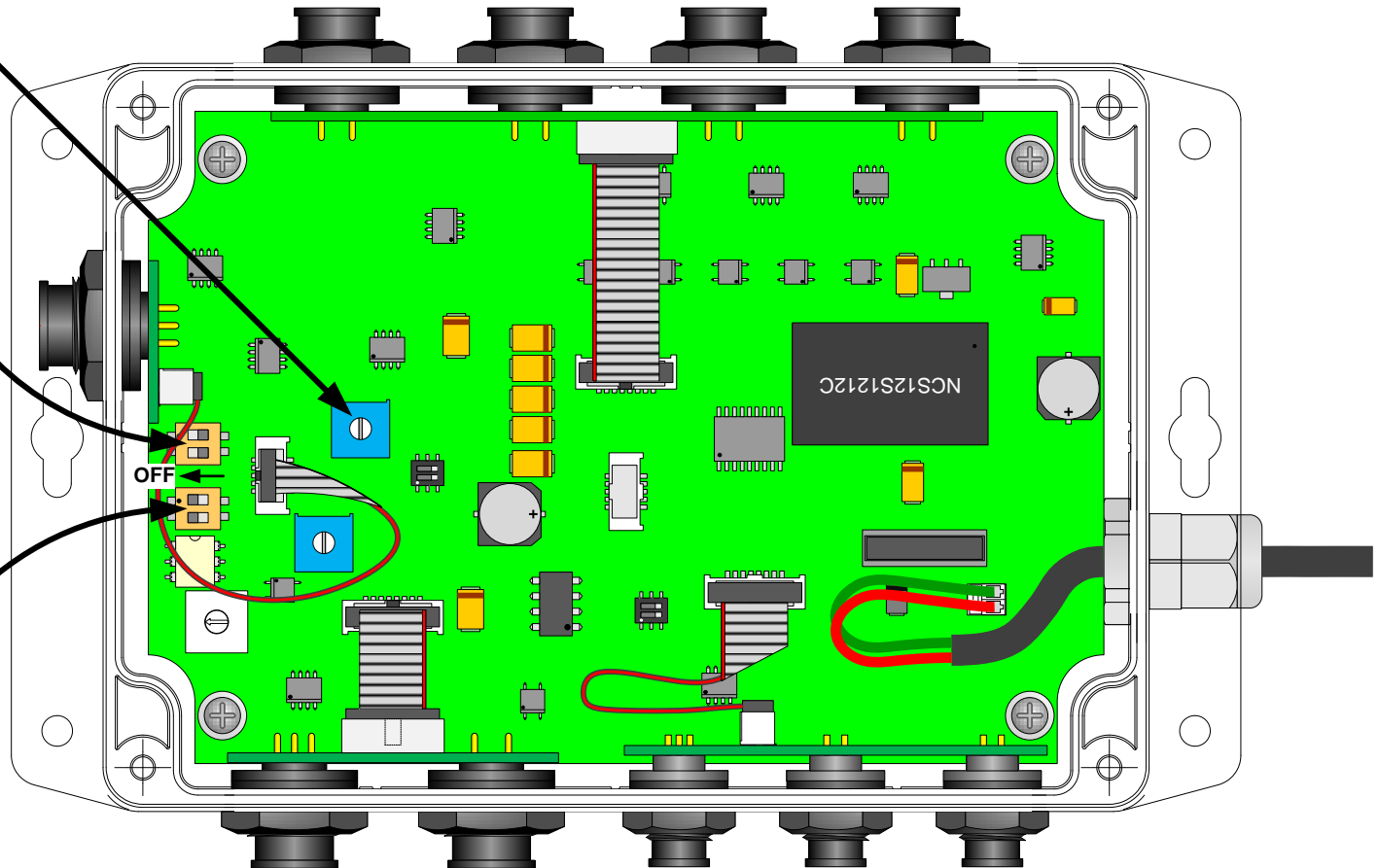


OFF \longleftrightarrow ON

Normally, muting control is factory preset to mute Aux Audio when either a PTT button is pressed, or when RX audio from a radio is detected.

- To turn off RX muting set S1 to OFF
- To turn off PTT muting set S2 to OFF

RX LEVEL
VR1
RX RANGE
SW4
MUTING
CONTROL
SW2



RX Audio level is normally set by the volume control on the mobile radio. If further adjustment is needed, RX LEVEL control VR1 can be used to adjust RX volume.

If more adjustment range is needed, the RX RANGE switch SW4 can be set to allow higher or lower level settings.

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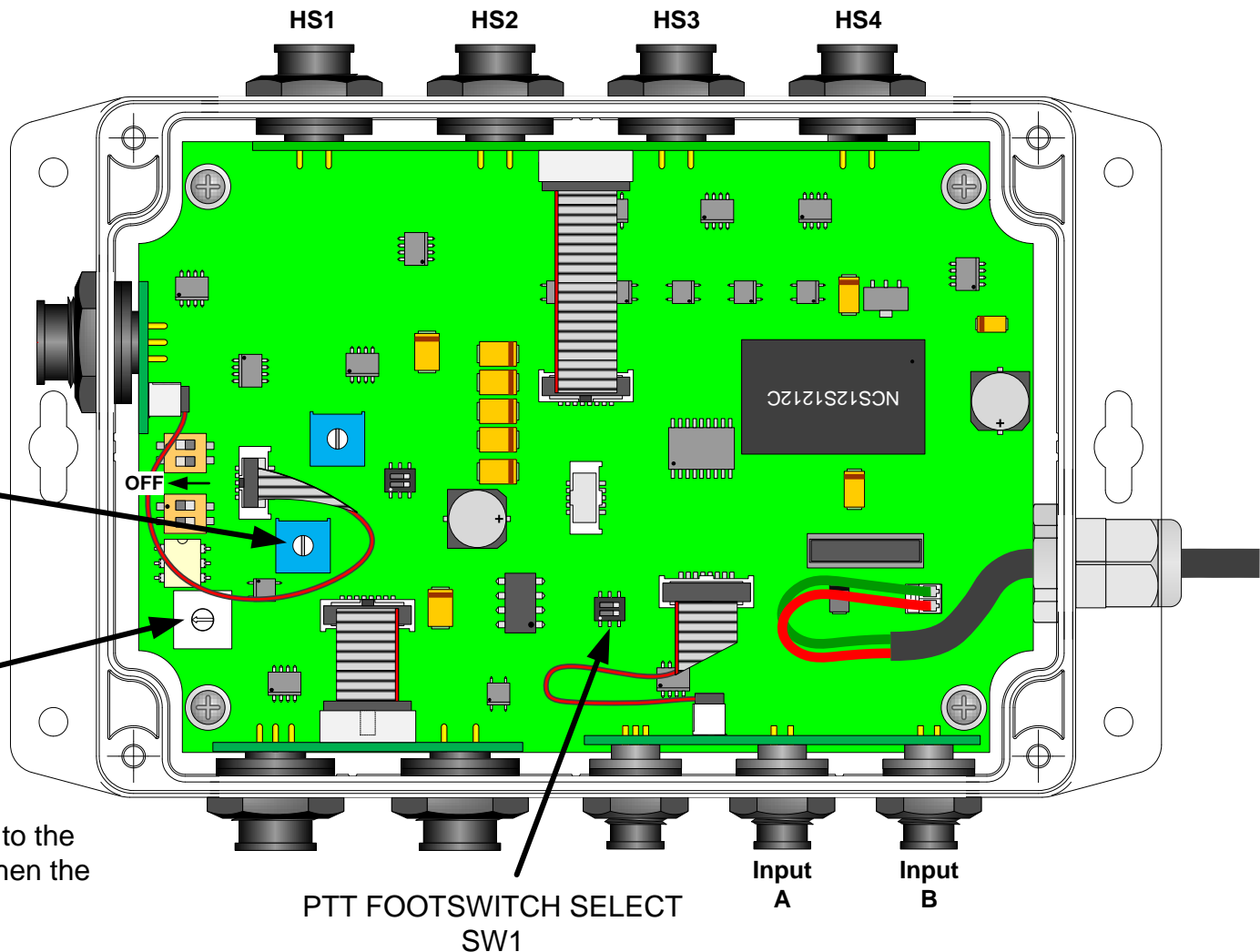
IM-977W4 Adjustments

TX Level, PTT Footswitch Control

Loosen top cover screws and carefully remove cover to make adjustments

For Factory Calibration
DO NOT ADJUST

TX LEVEL
SW5



TX Audio level is normally factory-preset to the correct level for the radio type specified when the IM-977W4 is ordered.

If a different TX level is required, the TX LEVEL SW5 can be set from 0 (highest) to F (lowest) to accommodate various radios.

Call Setcom Tech Support for assistance if needed.

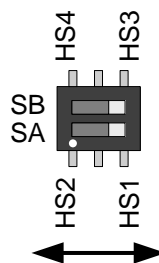
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FOOTSWITCH SELECT
SW1
(shown enlarged)



PTT Footswitch assignment can be set using SW1. The factory default is to assign input A to HEADSET 1 and input B to HEADSET 3.

These settings can be changed as follows:

- Input A can be changed to HEADSET 2 by setting SA to HS2
- Input B can be changed to HEADSET 4 by setting SB to HS4