

MS-900SPW4

INSTALLATION AND USERS GUIDE



28-2017
Wireless Antenna

To install antenna, carefully thread it onto the gold connector on top of MS-900SPW4

Questions or technical issues? Please call:

TECH SUPPORT: 650-965-8020 ext. 703

Setcom[®]
CORPORATION

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Ste. 560
Austin, TX 78741
Phone: (650) 965-8020

The Setcom MS-900SPW4 is a Wireless Single-Person Radio Interface designed for vehicular or desktop use. It is typically connected to a single mobile radio through use of the proper radio cable.

The MS-900SPW4 is designed to operate with a Setcom CSB-900W4 Wireless Headset.

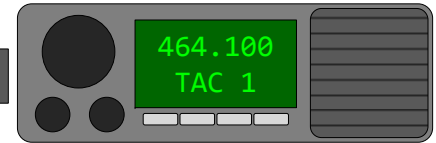
Adding an RRC-950 Radio Routing Controller and a 25-0108 connecting cable will allow operation with two radios. One radio cable will be required for each radio. The RRC-950 has a toggle switch that allows for switching TX, RX, and PTT functions between the two radios (RX can be either summed or switched).

The MS-900SPW4 can be powered from 12 to 24 VDC, either supplied by a vehicle power system (using a Setcom 25-1004 Power Cable), or by using a small AC-to-DC power supply (Setcom 26-5007). The unit has an internal 1 Amp ATO-type fuse, but it is recommended that a vehicle power source also be fused (at least 1 A).

MS-900SPW4 Typical Installation



CSB-900W4
Wireless
Headset



Mobile Radio

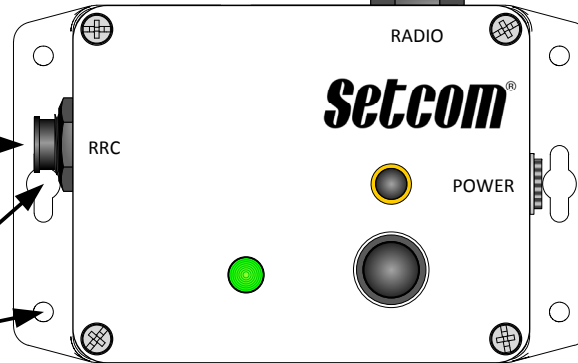
RC or RCB
Radio Cable

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

See Page 1 for more information
on powering the MS-900SPW4

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 MS-900SPW4 using the 4 small mounting holes or the 2 larger holes on the enclosure flanges. Mounting screws supplied by user.



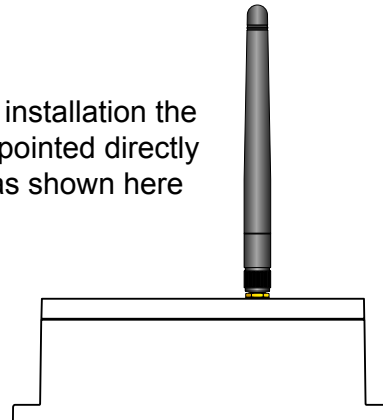
25-1004
Power Cable

Connect Cable to Power Source, 12 to 24 VDC
RED = +V
BLACK = GND

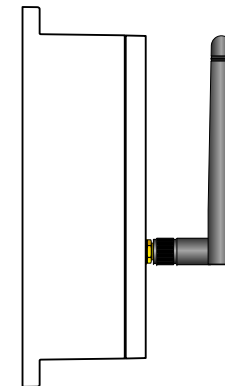
If the MS-900SPW4 must be installed on a vertical surface, it is recommended to fold the antenna so the main shaft is vertical

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



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



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MS-900SPW4 Pairing with Wireless Headset – Headset Information



The CSB-900W4 Wireless Headset is shipped already paired to the MS-900SPW4. See below for pairing information if needed.

- The MS-900SPW4 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 MS-900SPW4 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 MS-900SPW4 will both slowly flash Green indicating linked status.

If the headset needs to be re-paired with the MS-900SPW4, or paired with another MS-900SPW4:

- 1) Disconnect the Portable Radio Adaptor Cable (PRAC) from the headset, if one is installed (re-connect after pairing).
- 2) Set the MS-900SPW4 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 MS-900SPW4 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.

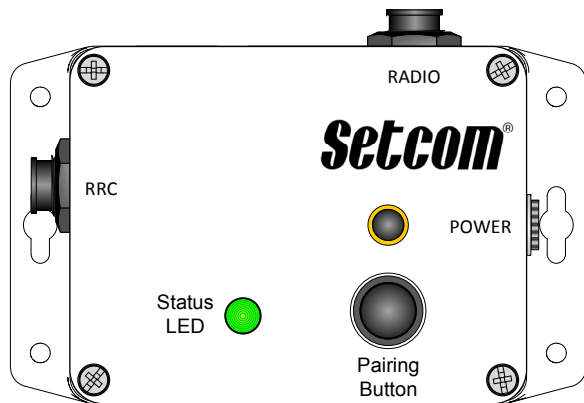
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MS-900SPW4 Pairing with Wireless Headset – MS-900SPW4 Information



When the MS-900SPW4 is first powered on, the Status LED will be steady Green – this indicates IDLE state.

The MS-900SPW4 and a wireless headset will retain pairing identity whenever powered off and power on again.

See page 3 for instructions on how to pair a wireless headset with the MS-900SPW4.

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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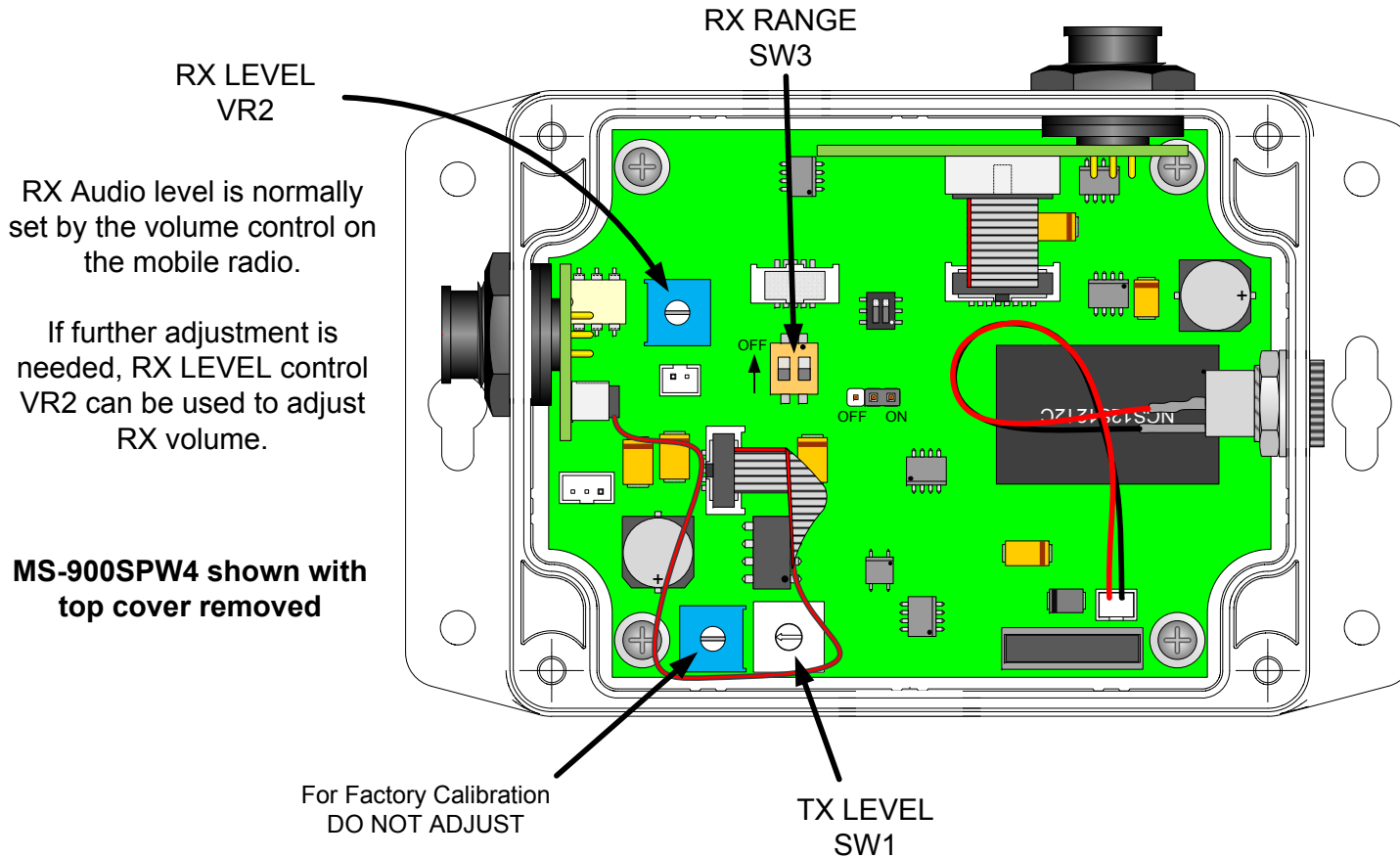
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MS-900SPW4 Controls and Adjustments

NOTE: Remove top cover carefully to make sure internal cables and wiring do not get damaged!

If RX LEVEL control VR2 does not provide enough adjustment range, the RX RANGE switch SW3 can be set to allow higher or lower level settings.

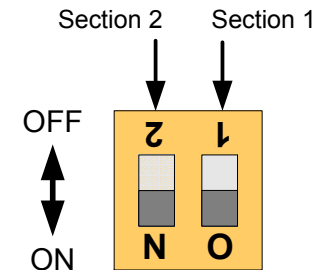


RX Audio level is normally set by the volume control on the mobile radio.

If further adjustment is needed, RX LEVEL control VR2 can be used to adjust RX volume.

MS-900SPW4 shown with top cover removed

RX RANGE SW3 (shown enlarged)



- To increase RX Level, set section 1 to ON
- To decrease RX level, set section 2 to ON
- Do not set both sections to ON, use only one section or the other

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TX Audio level is normally factory-preset to the correct level for the radio type specified when the MS-900SPW4 is ordered.

If a different TX level is required the TX LEVEL SW1 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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