

# Installation Guide

Rev.	Description	EC number
A	Release	78066
B	Update logos and HQ address	ACO-00090

## SV02UTS136-PT Antenna

Instructions for  
under-the-seat antenna

P/N 81900518



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# SV02UTS136-PT

Instructions for Under-the-Seat Antenna



**This is the installation guide for the SV02UTS136-PT Under-the-Seat Antenna.**



**Figure 1: SV02UTS136-PT Under-the-Seat Antenna**

### Safety

The antenna and all associated equipment should be installed with all applicable local and national electrical code guidelines to ensure safe operation.

### Precaution

For best PIM results:

- Make sure the connectors are clean and free from any metal flakes/dirt, and tighten the connectors using a torque wrench.
- Avoid extreme bending to the cable.
- During installation of the antenna, both cables should not be crossing one another.
- Do not remove the dust cap from connectors when not in use.

Description	Qty.
SV02UTS136-PT Under-the-Seat Stadium Antenna	1
Conduit-fitting close-off cap	1

### Necessary tools

Adjustable wrench

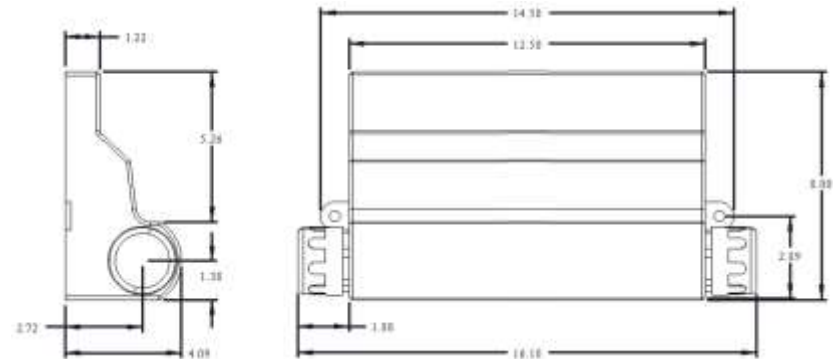
2.2-5 calibrated torque wrench

### Additional parts not supplied but required for installation

WPS-2MT-14S: JMA Weather Protection System for 2.2-5 1/4" Superflex connections

WPS-2F: JMA Weather Protection System 2.2-5 female antenna port / device seal

Suitable hardware required for wall mounting

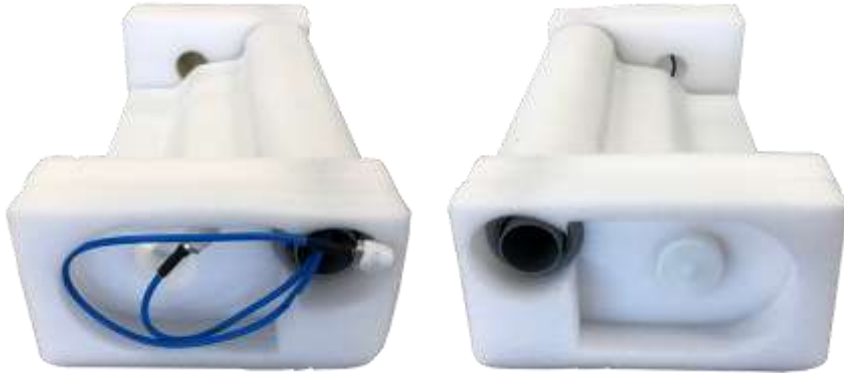


# SV02UTS136-PT

Instructions for Under-the-Seat Antenna



## Antenna SV02UTS136-PT unboxed



Antenna SV02UTS136-PT comes with 2 pigtail cables with 2.2-5.0 female connectors.

A conduit-fitting close-off cap is provided, for use where the antenna can be configured as either a left-hand or right-hand cable-fed product.



The antenna comes configured as a left-hand cabled unit.

## Right-hand cable configuration



Though the antenna is shipped with the two pigtail cables on the left-hand side, these cables can be rerouted to the right-hand side. **Note:** Care needs to be taken not to overbend the pigtail cables.



Starting with the longest pigtail cable, bend the cable back on itself, such that the maximum bend radius of 0.4" is not exceeded, and feed the cable back through the antenna to exit the right-hand side.

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## Right-hand cable configuration (cont.)



Repeat this for the smaller cable.  
**Note:** Care needs to be taken in routing the cables through the antenna to the right-hand side.



For right-hand only applications, fit the conduit-fitting close-off cap to the left-hand antenna conduit fitting.

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## How to fit the conduit-fitting close-off cap



First remove the conduit nut.



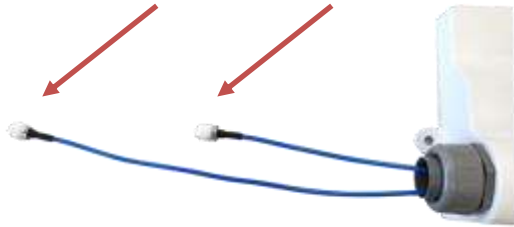
Fit the conduit-fitting close-off cap as supplied.



Refit the conduit nut and tighten.

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## Connecting external jumpers to pigtails



Pigtail cables are fitted with connector caps.

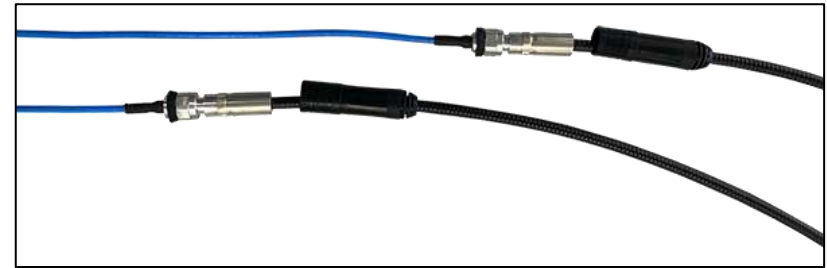


Remove the connector caps.

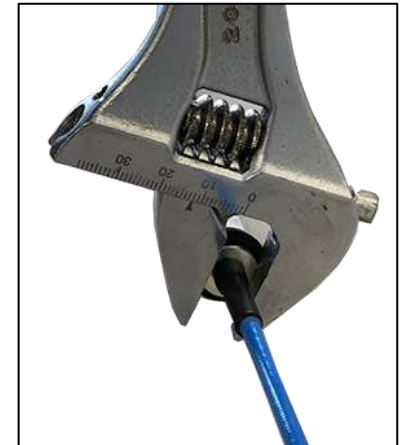


Install the WPS-2MT-14S weatherproof boot to external jumper cable and fit the WPS-2F port seal to the 2.2-5.0 female antenna pigtail connector. For detailed instructions, see JMA installation instructions, P/N [16208-01](#).

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Connect male to female connectors and hand-tighten.



Use the flat area on the female 2.2-5.0 pigtail connector for connector torquing.

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### Connecting external jumpers to pigtails (cont)

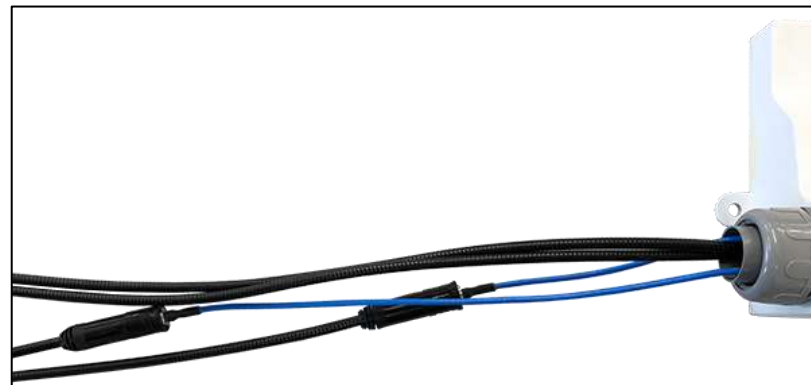


Using a calibrated torque wrench on the male jumper 2.2-5.0 connector, torque the connects to 26.55 lbf·in (3 N·m or 2.21 lbf·ft).



Push the WPS boot onto the port seal, making sure the ribs of the port seal are fully covered by the WPS boot.

### Cable pass-through



Install any pass-through cables one at a time, to avoid potential damage to the RF pigtail cables. When the coax emerges, pull gently by hand until it's completely through.



## Liquid conduit fitting



Remove conduit nut and slide conduit onto the antenna conduit fitting.



Slide the conduit nut back on.



Refit the conduit nut and tighten.



Repeat for other antenna port where pass-through cables are installed.



Refit the conduit nut and tighten.



## Liquid conduit fitting (cont.)

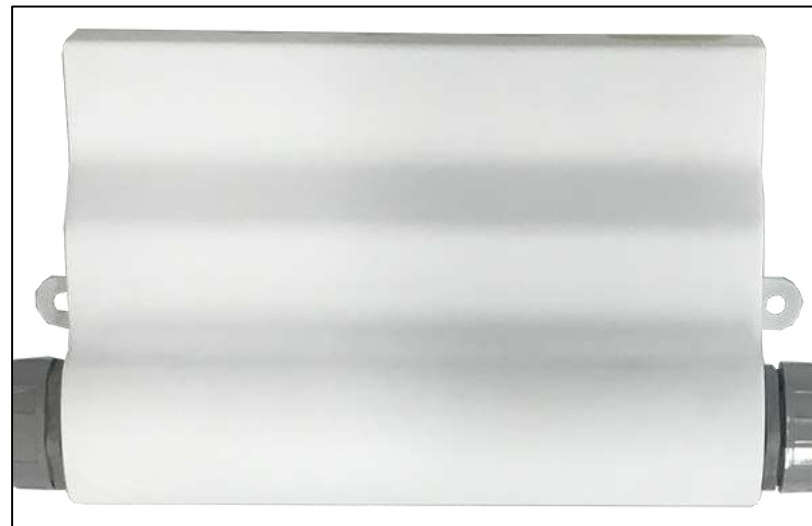


Example of fully fitted antenna in pass-through application.



Example of fully fitted antenna used in left-hand application, with the conduit-fitting close-off cap on the unused side of the antenna.

## Antenna installation



The antenna has two mounting tabs, one on the left and one on the right. A mounting screw no larger than 5/16" should be used for installing the antenna. **Note:** Care should be taken not to over-torque the screw and cause damage to the mounting tab.