



## Installation Instructions aera 500 Series Panel Dock®

Revision 4, September 2019

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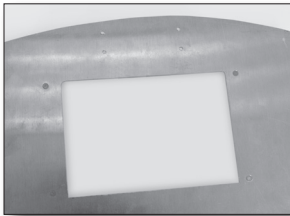


Thank you for purchasing an AirGizmos Panel Dock. Before beginning the installation process, please take a moment to fill out the registration card or go online to register.

The Panel Dock is shipped with a set of mounting hardware necessary for attaching it to an avionics stack. If you intend to install it in a different way, use the included hardware as a reference when deciding what type of installation hardware you will need. The hardware included is as follows: 4 AN365-832A ELASTIC LOCK NUTS, 4 AN525-832R8 SCREWS WITH INTEGRAL WASHERS, and 4 AN960-8 FLAT WASHERS. There's also a separate pack with 2 each of the same hardware for fastening the Cable Bend.

A word of caution: we have designed the mount to be installed using standard screws, and we have fabricated the flanges to allow clearance of the screw heads. Please do not attempt to use countersunk screws. Countersinking plastic is generally not a good idea, and we cannot guarantee that our product will perform its duty if you choose to countersink the holes. So, use the included hardware, or something similar, and everything will be fine. Let's get started.

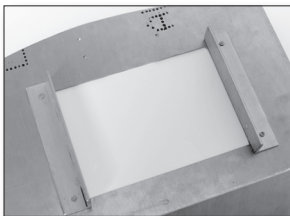
### Step 1: Prepare a hole in your panel



The dimensions of the Panel Dock are included for reference, but measure yours just to be safe. Paper can expand or contract with the weather.

Note: if you are installing this product with any Garmin avionics, you will find that Garmin uses 6.3" wide trays. To account for the difference it is acceptable to use washers.

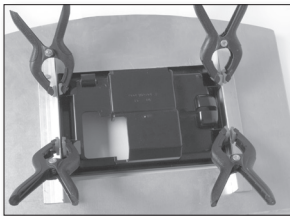
### Step 2: Attach your mounting rails



These instructions assume that you are installing the Panel Dock in a standard radio stack, but that is not the only way to install it. The only requirement for installation is that you must attach the side flanges to two pieces of angle, spaced the correct distance apart. Two pieces of 3/4" 6061 aluminum angle works just great.

Position your rails as desired, making sure they are the proper distance apart, and parallel to each-other.

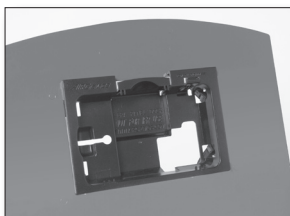
### Step 3: Clip the Panel Dock in place



Using at least two Cleco® edge clamps, clip the Panel Dock to the rails. This will allow you to determine how it should look from the front before you drill any holes.

The front of the mount should protrude enough to allow the latch mechanism to move freely. If you intend to make the mount sit flush with the panel, you will need to cut additional material from the panel to account for the movement of the latch.

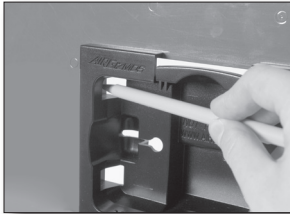
### Step 4: Verify the look and function of the mount



With the Panel Dock secured with the edge clamps you can insert your portable device and verify that it is at the correct depth and that the latching mechanism works properly.

When satisfied with the layout, remove your device from the mount.

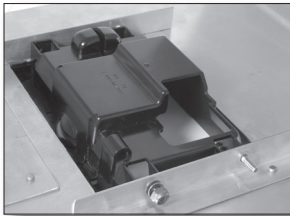
## Step 5: Mark the holes for drilling and drill the holes



Remove one edge clamp at a time and mark the position of each hole with a pen. Use a circular motion to mark the outer edges of the hole. This will make it easier to determine the exact center. Do this for all four holes, replacing the edge clamps as you go.

There are a number of ways in which you may choose to drill the holes. You can remove the rails from the panel and drill them on a drill press, or you may use an angle drill to drill them in the plane. Just be careful to make accurate holes at the marks you made, and you will be fine.

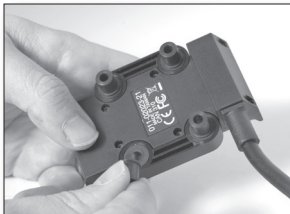
## Step 6: Mount the Panel Dock using the supplied hardware



The bolts we provide have an integral washer on the screw-head side. This provides adequate distribution of force on the plastic to keep it from cracking.

Remember that if you are installing this along with any Garmin® avionics you will need to use washers to make up the difference between 6.25" and 6.3". One thin washer on each bolt will work just fine.

## Step 7: Remove original hardware and assemble Power Connector & Cable Bend



Take the power connector (**yoke mount**), which comes with the aera GPS, and pull off 4 stand-offs attached to the power connector on the back side, as shown on the picture. Then take a Cable Bend part, included in the package with our Panel Dock, and assemble it. Attach to the back side of the power connector as shown on the picture (shown in Step 9). Route the cable through the bending plastic part.

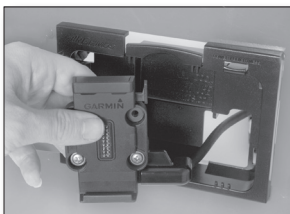
## Step 8: Fasten Power Connector & Cable Bend



Using a separate hardware pack (2 screws, nuts, and washers) included in Panel Dock package, securely fasten the Cable Bend to the power connector. Screw head and the washer should go on the front of the power connector, and the nut - fasten on the back, where the Cable Bend it, as shown on the picture.

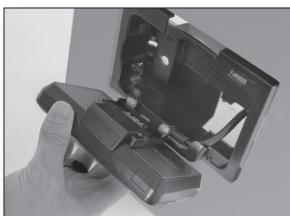
**NOTE:** You might want to lash the cable to cable bracket with a plastic tie wrap.

## Step 9: Route the Assembly



Route the Power Connector & Cable Bend assembly through the opening in the Panel Dock, as shown in the picture. Plugs located on the cable end of the Power Connector go through the opening in the Panel Dock first.

## Step 10: Install the GPS



Attach the Power Connector to the back of the GPS and snap the GPS into place in the Panel Dock.

Congratulations! Your installation is complete. Please email us with any questions you might have at [info@airgizmos.com](mailto:info@airgizmos.com).

**WARNING - California Residents:** This product may expose you to chemicals which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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