AirGizmos, LP

Installation Instructions for the 196/296/396/496 Panel Dock®
Revision 10, April 4, 2018

Thank you for purchasing an AirGizmos Panel Dock. This mount was designed to securely hold your portable electronic device. It allows you to quickly remove your portable device from your plane for upgrades, flight planning, or for use in your car or boat. We also feel that this is a safer way to use your portable equipment, as it is securely held in the panel at all times. We hope you receive years of enjoyment from our product. Before beginning the installation process, please take a moment to fill out the registration card.

The Panel Dock has been 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.

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 panel cut out dimensions for the the Panel Dock should be 6.25 inches wide and 4.25 inches tall. See the cut template on the Panel Dock specification sheet and measure your Panel Dock to be certain. On the provided template, note that 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 show installing the Panel Dock with side rails but it may be easily installed in a standard radio stack. The requirement for installation using rails 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. You can order pre-cut rails from AirGizmos.

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

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.

Step 6: Drill the holes

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. Use a 3/16 inch drill bit to drill the four mounting holes.

Note: If you are installing a Horizontal Angle Adapter, you need to drill the corresponding holes so that the screws can be inserted at the proper angle.

Step 7: 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 8: Install cables

The Panel Dock has been designed to allow the cables that are included with the GPS to be used. There are "keyholes" in the back of the Panel Dock to allow the cables to be inserted with the unique feature of keeping the cables from disappearing behind the panel when the GPS is removed. If desired, you may cover the larger holes using rubber grommets.

Note: For an XM weather antenna cable, we recommend using the AirGizmos extension cable. This cable usually fits better and protects your XM antenna connector from getting damaged.

Congratulations! Your installation is complete. Please email us with any questions you might have at info@airgizmos.com.