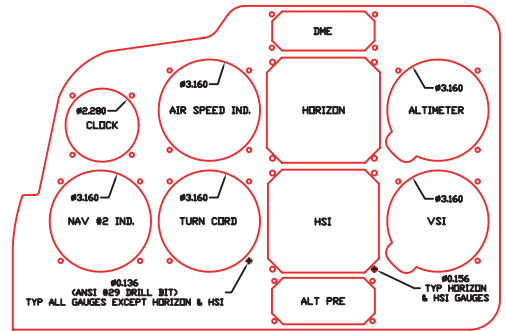


Penn Avionics, Inc provides CNC fab services to individuals and other shops. We can layout your panel for you, or we can accept artwork as hand sketches or digital media.

Each panel is a custom cut, so the customer is free to change the panel layout to suit the individual layout requirements. Our CNC technician will work with you via phone, fax, or E-mail to get your artwork generated. After artwork generation, we can provide you a 1:1 plot for a test fit. We also provide panel painting services, panel engraving and / or engraved placards.



Custom Panels



Pilot side sub panel Layout Ver 2.2 1/24/2002

Panel Fab Process. Penn will need the dimensions of your old panel and the new layout

- 1) E-mail Penn Avionics a picture of your existing panel, along with a description of the new panel layout (digital file, or hand sketch).
- 2) If we have your panel template in our computer system, you can skip step 3.
- 3) Ship Penn your existing sub panel or plastic overlay (or take a large piece of heavy paper and trace the outside edge of your existing panel) so we can digitize the layout .
- 4) Our CAD technician will contact you to discuss the new panel layout.
- 5) Penn Avionics will E-mail you a PDF file (or fax) of the new layout. We recommend the customer also purchase a test plot to perform a test fit prior to cutting the final panel.
- 6) Penn Avionics will cut the panel, paint the panel (if required), generate placards (if required) and ship the final product to the customer.



Example panel pricing with CAD work:

Penn Avionics receives a hand sketch or sample panel from customer. Penn Avionics generates Autocad file for CNC. Four hours Included here for basic CAD file generation and test plot for customer. Extra CAD time may be required if customer requests changes after test plot.

1/2 Panel



Full Panel



Four hours CAD Labor + Machine time + stock, bare panel no paint no silk screen.

\$580.00

\$750.00

- Add Paint **non reflective Dupont Epoxy* + **\$295.00**
- Add Silk-screen + **\$295.00**
- Add countersinking to instrument mounting holes + **\$75.00**
- Add radio rails add **\$300.00** for single stack or add **495.00** for double

Panels are cut from 2024-T-3 stock. We can supply .040 thru .125 thickness. Typical panel thickness s .060-.080.

Penn Avionics can remove the existing instrument panel and install a new custom panel in your aircraft. Installation labor varies by aircraft. Typical piston engine instrument panels replacement: \$1800 - \$5250

Standard radio rails are aluminum angle stock cut and flush riveted to base panel. To upgrade to RadioRax rails add \$395.00 for single stack or \$495.00 for dual stack. RadioRax rails are extruded aluminum rails with a machined slot on the inside that runs the length of the rail. Captive nuts slide inside the slot and are easily positioned for tray mounting

