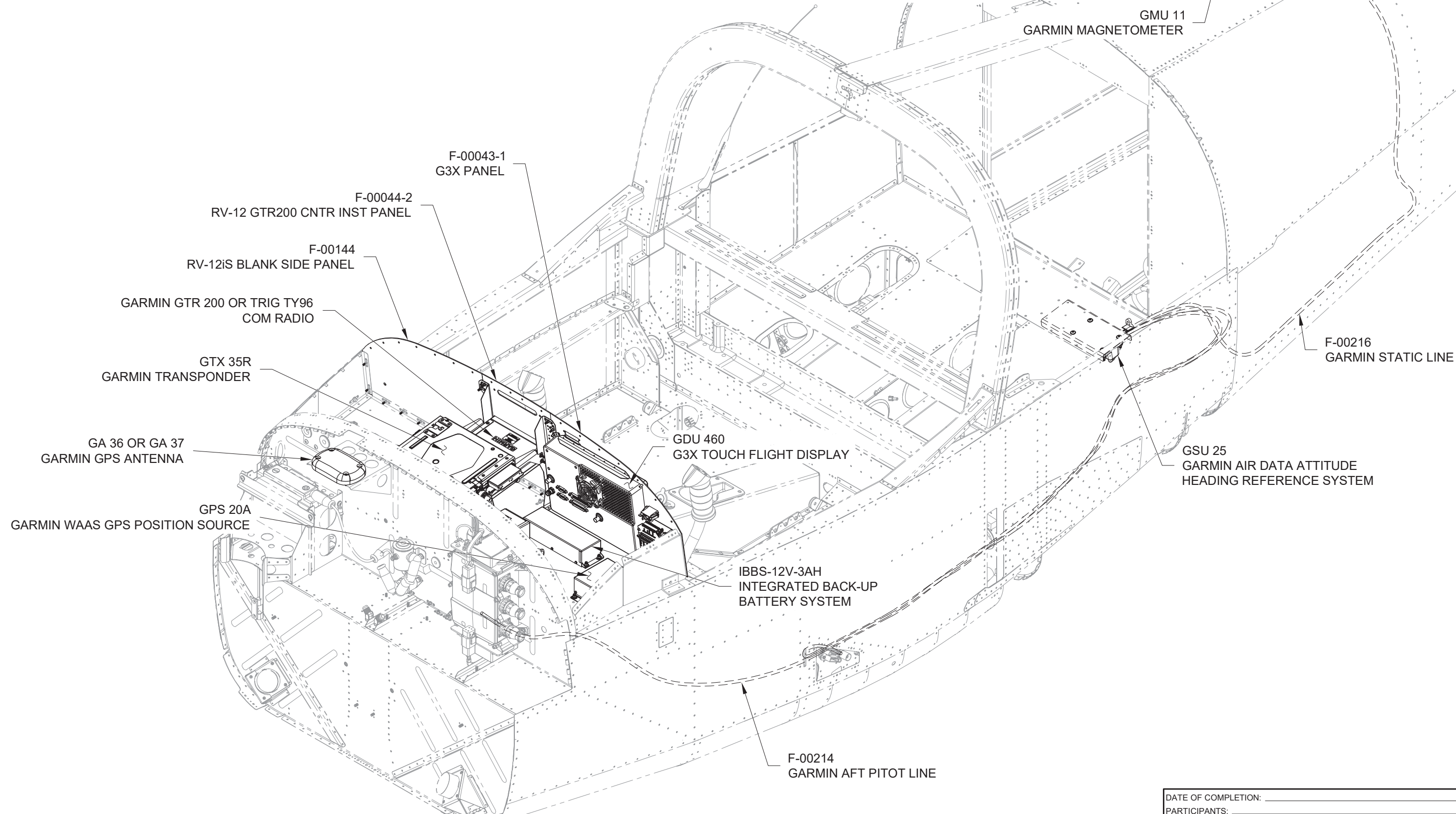


SECTION 42NiS:

GARMIN G3X TOUCH AVIONICS



NOTE: Never use magnetic tipped screwdrivers or other magnetic objects when working with hardware near the GMU 11. The GMU 11 is very sensitive and may be influenced by any magnetized hardware.

Step 1: Install the GMU 11 to the F-00142 GMU 11 Attach Plate as shown in Figure 1.

Step 2: Mount the F-00142 to the F-00009-L & -R ADAHRS Brackets in the upper tailcone skins as shown in Figure 2. Ensure the GMU 11 connector is facing aft.

Step 3: Connect the 9-pin d-sub connector labeled "MAGNETOMETER" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the GMU 11.

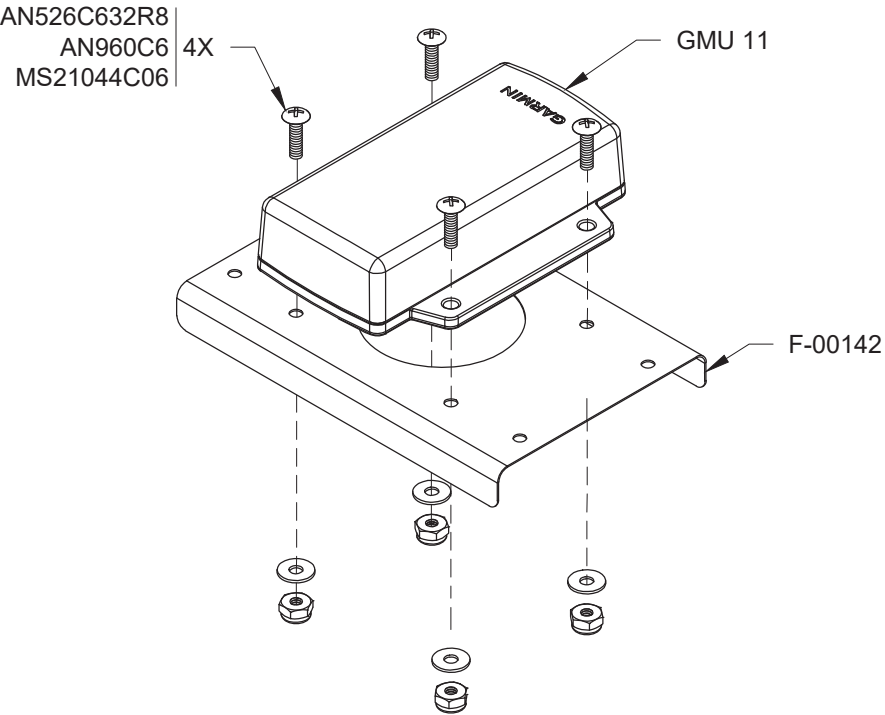


FIGURE 1: GMU 11 INSTALLATION

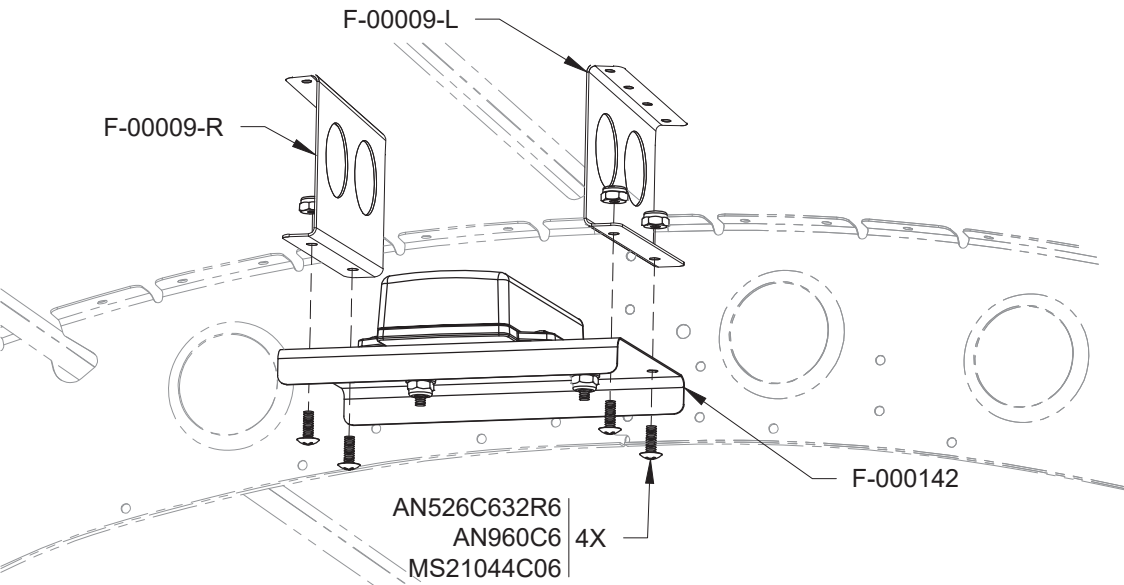


FIGURE 2: MOUNTING THE GMU 11

Step 4: If necessary, disconnect and discard the F-00013 Static Line Tee-ADAHRS from the F Plastic Tee and F-00014 Static Line Tee Upsize. See Section 10iS/U and the detail view in Figure 3.

Step 5: Connect the Aft Pitot Line to the F Plastic Tee using the F-00014 as described in Section 10iS/U. If necessary, trim the Aft Pitot Line as required to prevent interference or chafing on the surrounding structure.

Ensure there are no kinks in the Aft Pitot Line. See Section 10iS/U and the detail view in Figure 3.

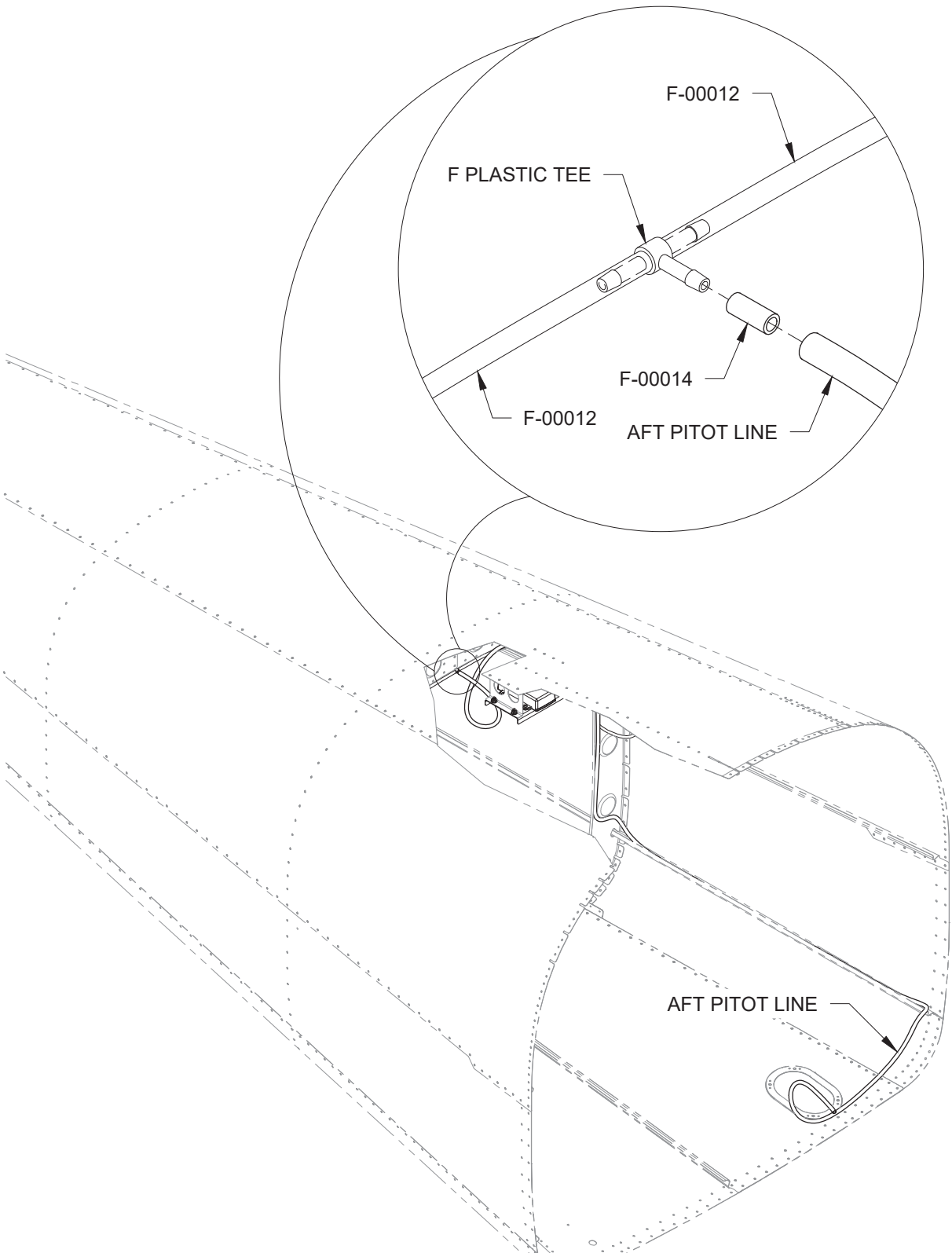
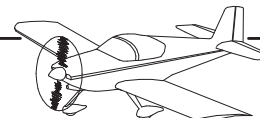


FIGURE 3: CONNECTING THE AFT PITOT LINE



Step 1: Remove the F-01206E-1 Baggage Floor Cover, previously installed in Section 38iS/U.

Step 2: Cleco the F-00082 ADAHRS Stiffener to the F-01206E-1. Final-Drill #11 the four holes indicated in Figure 1. Disassemble and debur.

Step 3: Rivet the F-00082 to the F-01206E-1 as shown in Figure 1. This will form the ADAHRS Baggage Floor Assembly.

Step 4: Bolt the GSU 25 to the ADAHRS Baggage Floor Assembly as shown in Figure 2.

NOTE: See Section 5.27 for detailed fluid fitting assembly instructions.

Step 5: Install the three FLF-00007 fittings into the "Pitot", "AOA", and "Static" ports of the GSU 25 ADAHRS.

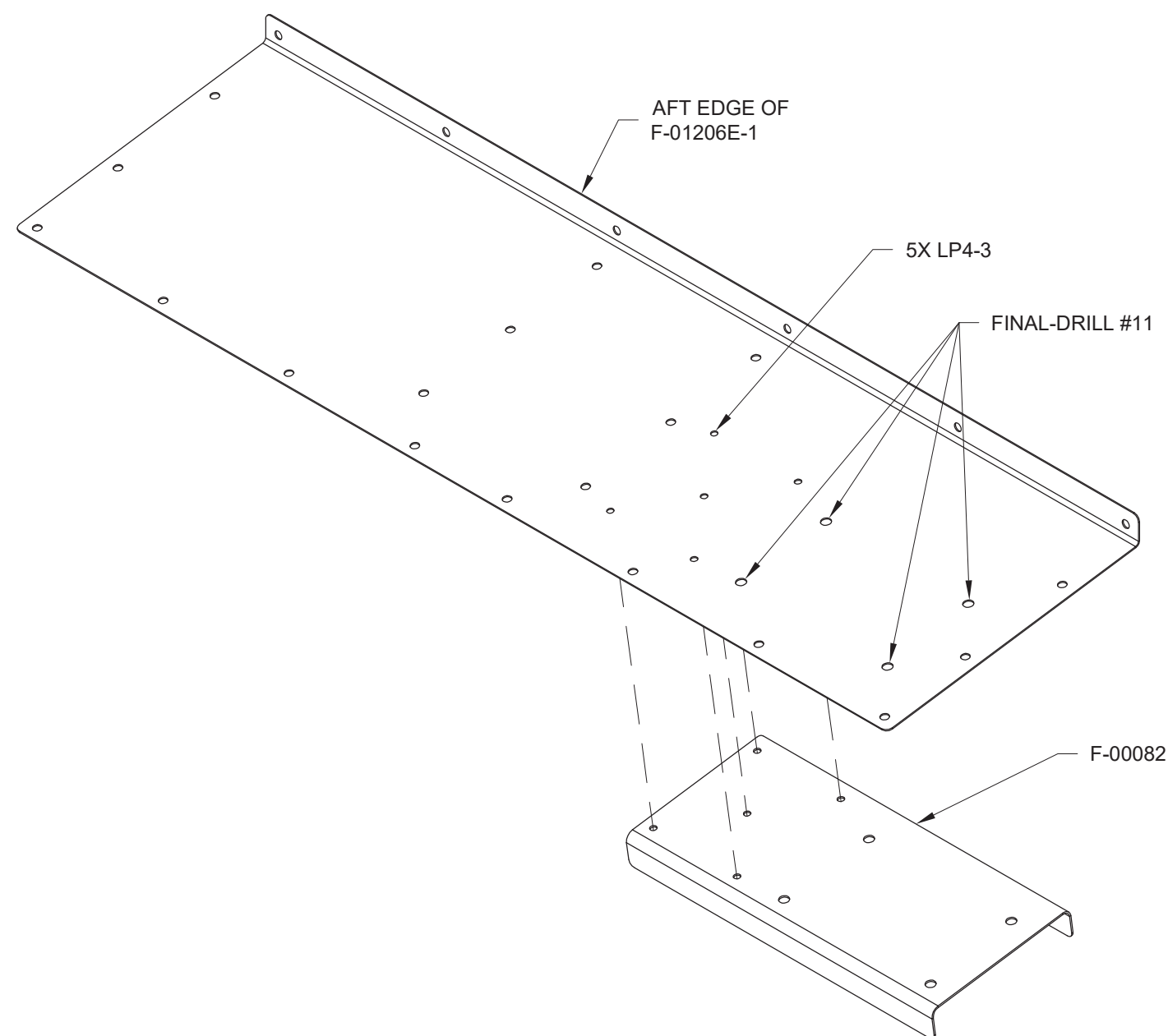


FIGURE 1: ADAHRS BAGGAGE FLOOR ASSEMBLY

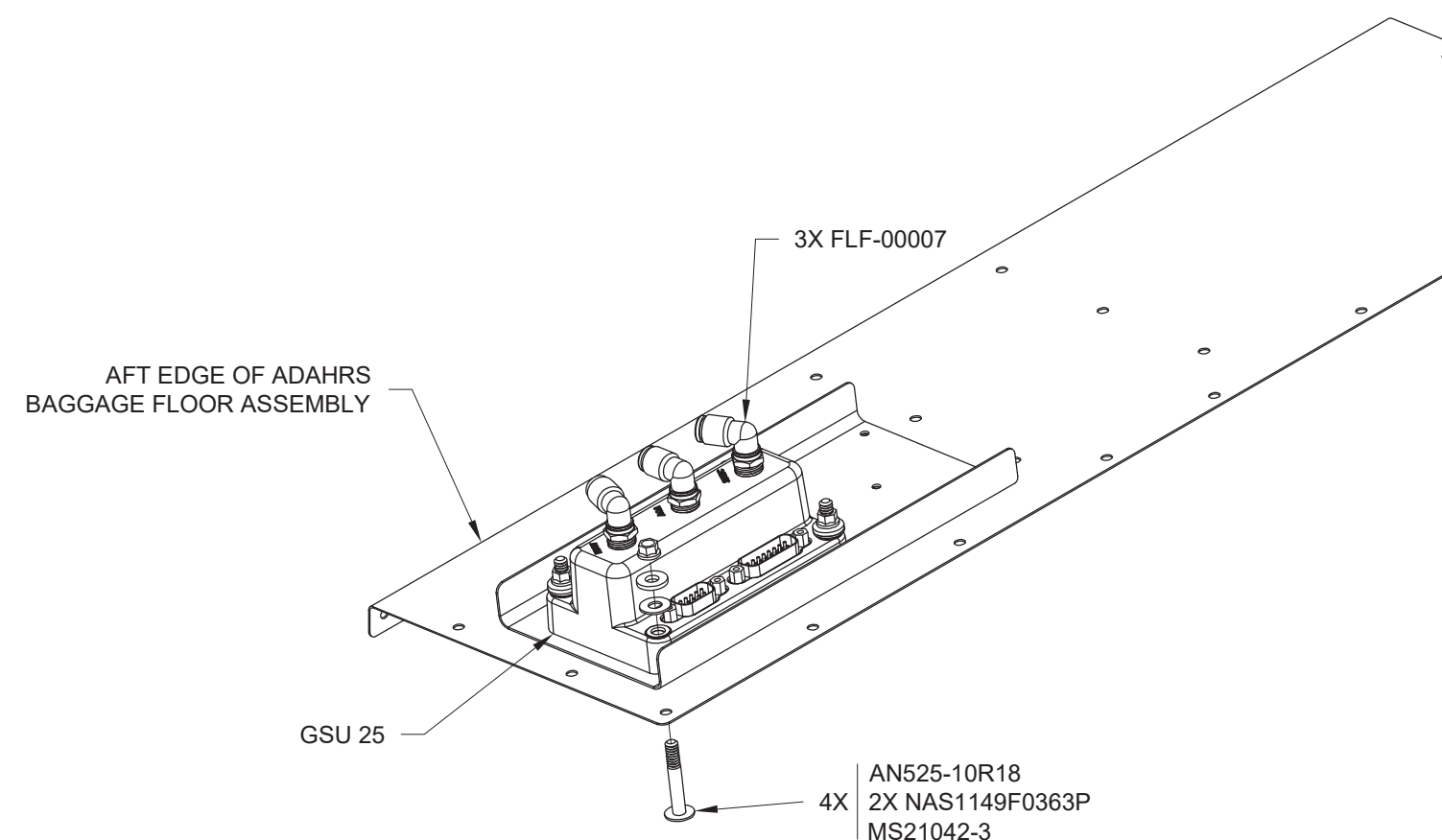


FIGURE 2: INSTALLING THE ADAHRS

Note: Ensure all Pitot-Static and AOA Lines are free from debris before connecting them to the avionics.

Step 1: Locate an ES-00301 above the lightening hole in the F-01207B-1 Baggage Bulkhead as shown in Figure 1. Match-Drill #30 the F-01207B-1.

Step 2: Rivet the ES-00301 to the F-01207B-1 as shown in Figure 1 and Figure 2, using the hardware called out in Figure 1.

Step 3: Measure and cut the Aft Pitot Line so it extends 24 in. [61.0 cm] forward of the forward-most plastic tie wrap installed in the F-1280-L Left Side Skin in Section 10iS/U. This is now the F-00216 Garmin Static Line. Keep the remaining PT 1/4 OD Tube.

Step 4: Route the F-00216 forward through the lightening hole in the F-01207B-1 as shown in Figure 2, then insert the end of the F-00216 into the FLF-00007 in the "Static" port of the GSU 25.

Step 5: Locate the F-00212 Garmin AOA Line (left coiled in the tailcone in Section 42MiS/U).

Step 6: Route the F-00212 forward through the lightening hole in the F-01207B-1 as shown in Figure 2, then insert the end of the F-00212 into the FLF-00007 in the "AOA" port of the GSU 25.

Step 7: Measure, mark, and cut 103.5 in. [262.9 cm] of the remaining PT 1/4 OD Tube to fabricate the F-00214 Garmin Aft Pitot Line.

Step 8: Route one end of the F-00214 through the lightening hole in the F-01207B-1 as shown in Figure 2, then insert the end of the F-00214 into the FLF-00007 in the "Pitot" port of the GSU 25.

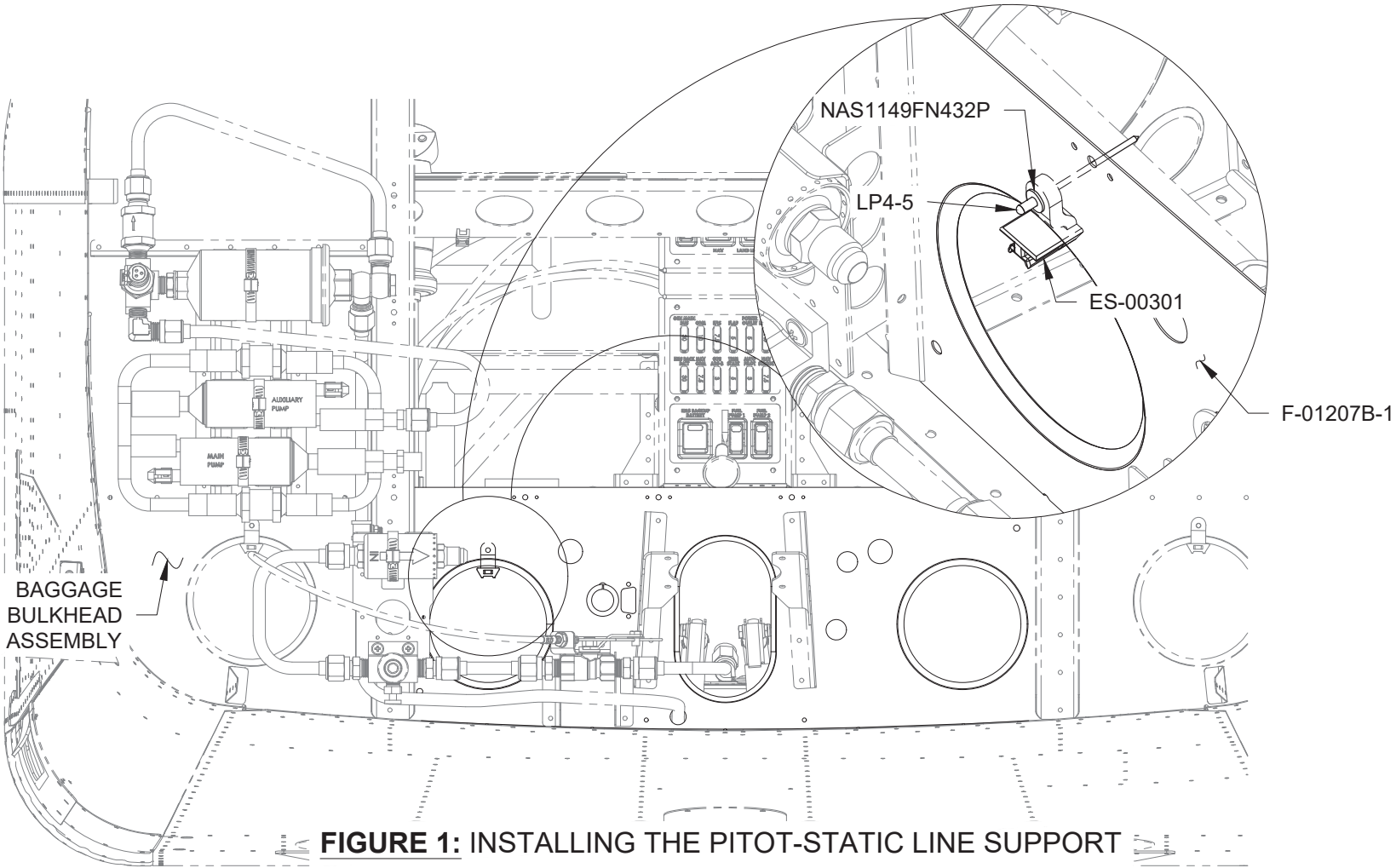


FIGURE 1: INSTALLING THE PITOT-STATIC LINE SUPPORT

Step 9: Loosely secure the F-00212, F-00214, and F-00216 to the ES-00301 using a tie wrap as shown in Figure 2. Leave the tie wrap loose enough to allow the lines to slide through when the ADAHRS Baggage Floor Assembly is removed.

Step 10: Connect the 15-pin d-sub and 9-pin d-sub connectors labeled "ADAHRS" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the GSU 25 as shown in Figure 2.

Step 11: Loosely secure the wires to the ES-00301 (installed in Section 42MiS/U) using a tie wrap as shown in Figure 2. Leave the tie wrap loose enough to allow the wires to slide through when the ADAHRS Baggage Floor Assembly is removed.

Step 12: Check for F-00212, F-00214, F-00216 and wire bundle chafing or rubbing on the flight control cables, torque tube, or surrounding structure. Reinstall the ADAHRS Baggage Floor Assembly as described in Section 38iS/U.

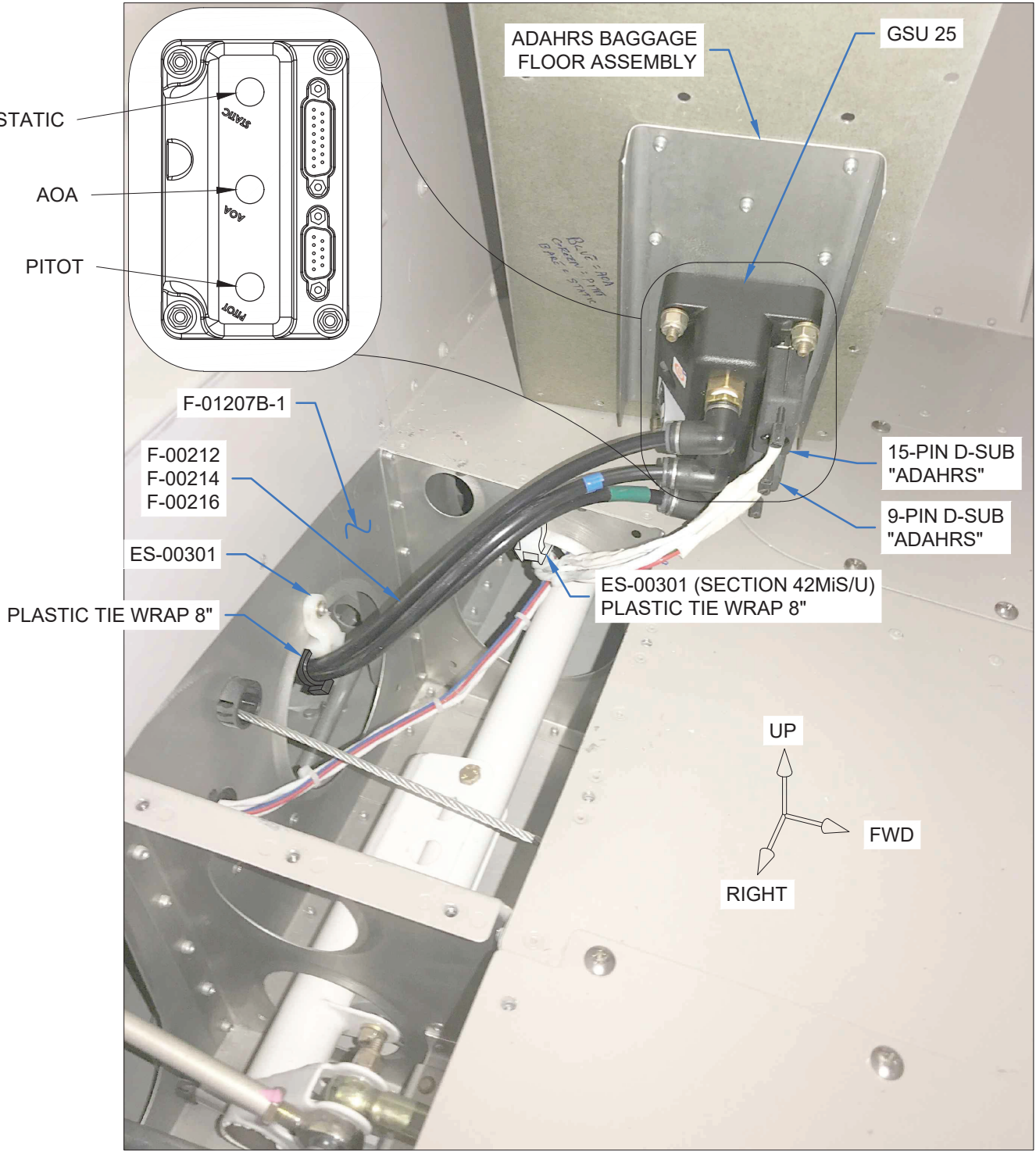
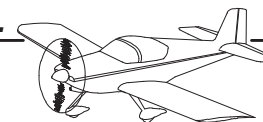


FIGURE 2: WIRING AND PLUMBING THE GSU 25



Step 1: Route the F-00214 forward through the fuselage, following the CT-01204 Fuel Cable Assembly through the snap bushings as shown in Figure 1.

Step 2: Secure the forward end of the F-00214 using a tie wrap at the right-side tie wrap mount in the F-12103-1 Tunnel Brace as shown in Detail A in Figure 1. Ensure the F-00214 is free from kinks along its length and does not interfere or chafe against fuel lines, brake lines, engine and fuel control cables, etc.

The F-00214 will be connected to the FF-1216 Pitot Line later in this section.

Step 3: Loosely secure the F-00212 and F-00214 to the ES-00301s with plastic tie wraps as shown in Detail B in Figure 1.

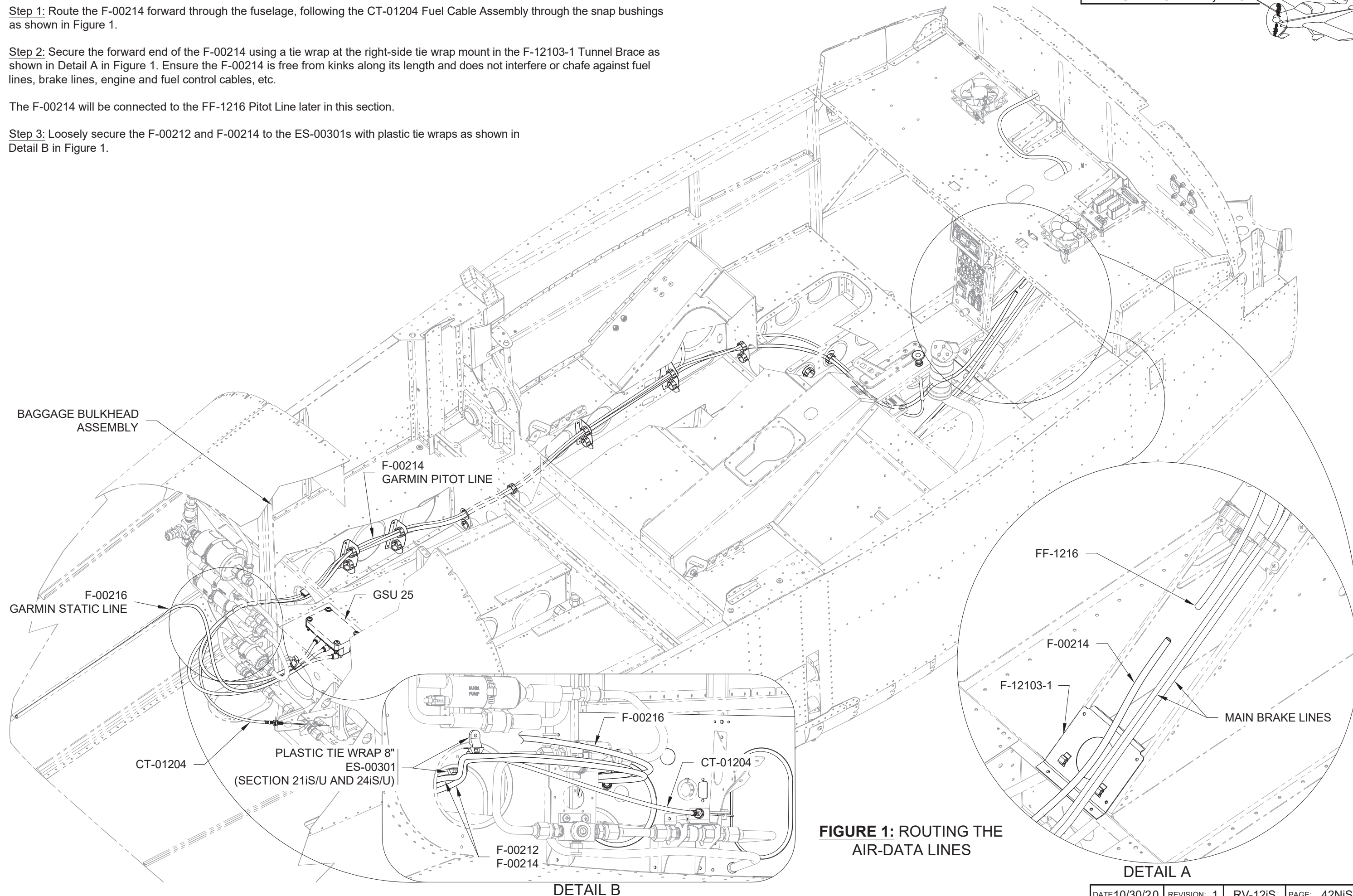


FIGURE 1: ROUTING THE AIR-DATA LINES



Step 1: Cleco the F-00063 Doubler to the aft side of the F-01202B-1 Panel Base flange as shown in Figure 1.

NOTE: Do not match-drill the #27 hole noted in Figure 2 into the F-00063. This hole is not used for the G3X Touch installation.

NOTE: The two upper screw holes in the F-00063 will make notches in the F-01202B-1 flange. See Figures 2 and 3.

Step 2: Match-Drill #27 and #40 all holes not found in the F-01202B-1 using the F-00063 as a guide. See Figure 2.

Step 3: Remove the F-00063 and deburr.

Step 4: Dimple all rivet holes in the F-01202B-1 flange as shown in Figure 3.

Step 5: Machine countersink all rivet holes in the F-00063. See Figure 4.

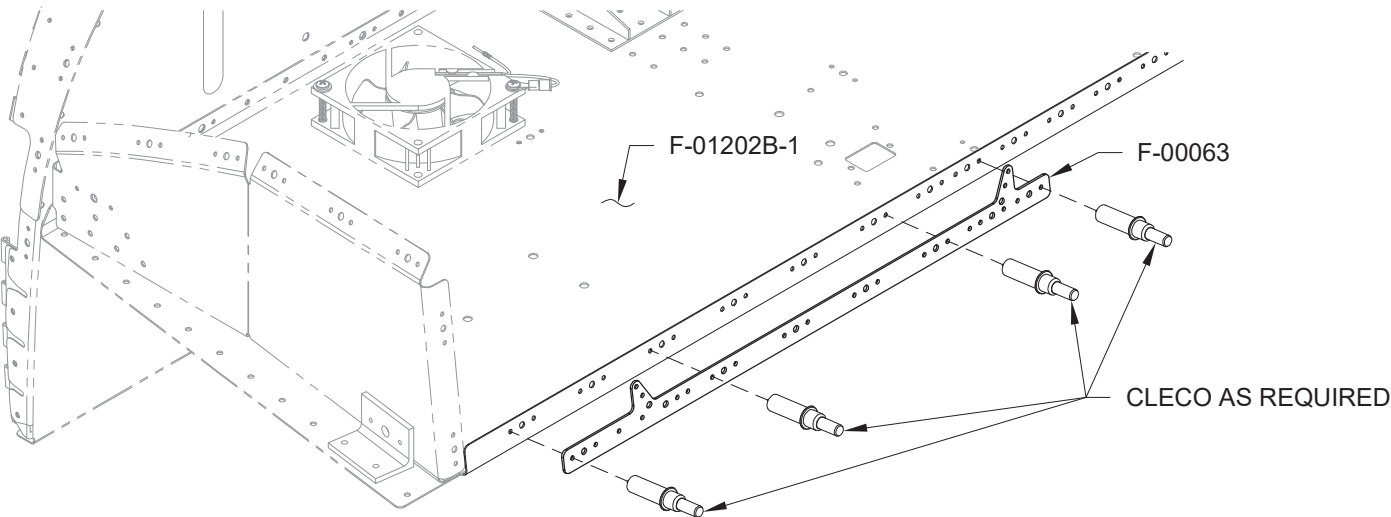


FIGURE 1: LOCATING THE F-00063

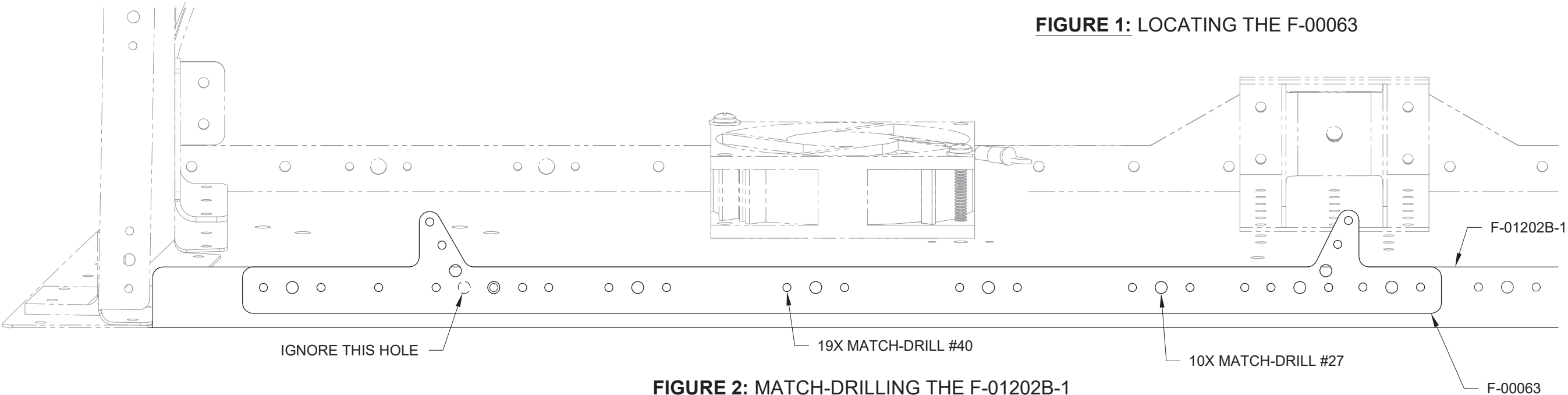


FIGURE 2: MATCH-DRILLING THE F-01202B-1

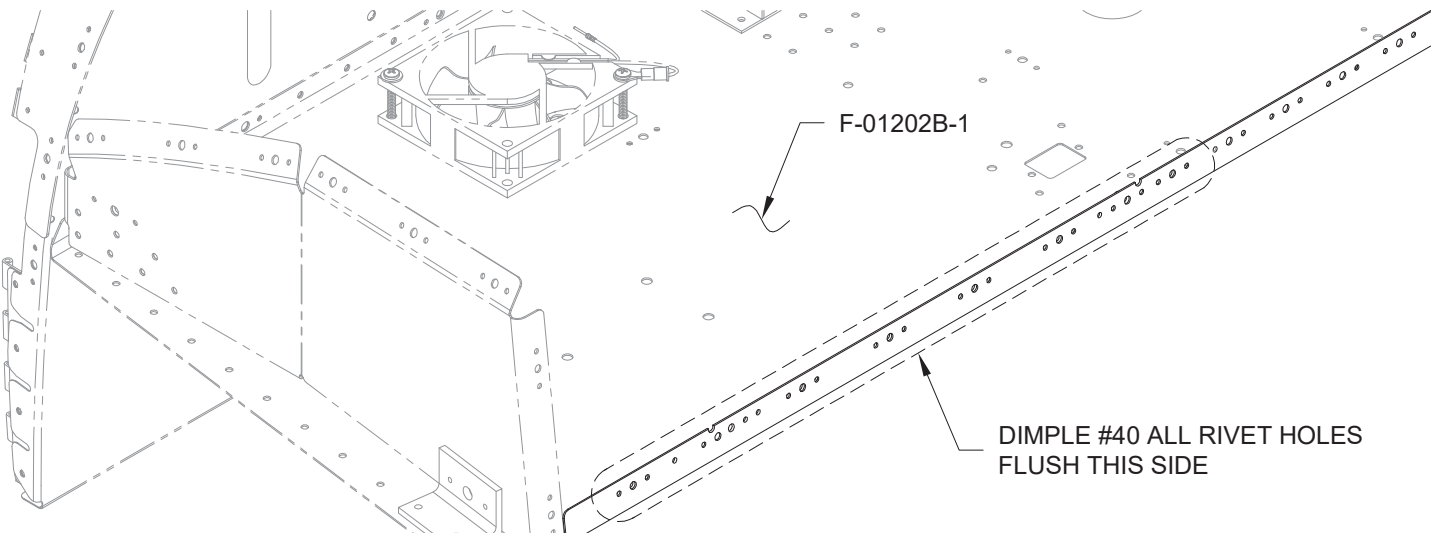


FIGURE 3: PREPARING THE F-01202B-1

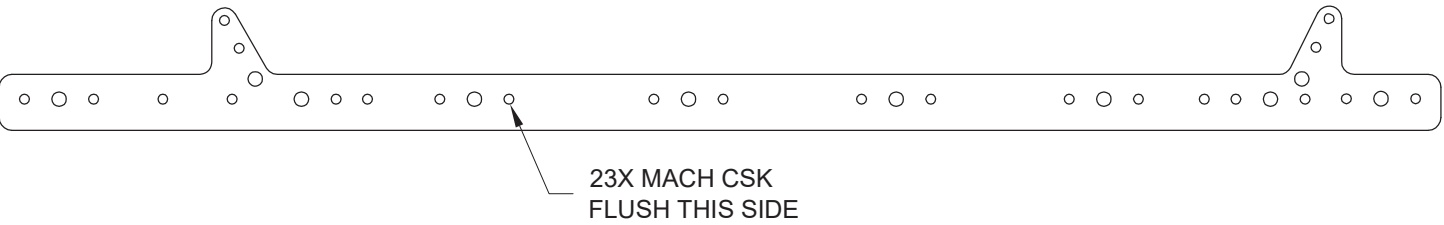


FIGURE 4: PREPARING THE F-00063



Step 1: Rivet the F-00063 Doubler and nutplates to the forward side of the F-01202B-1 Panel Base flange as shown in Figure 1.

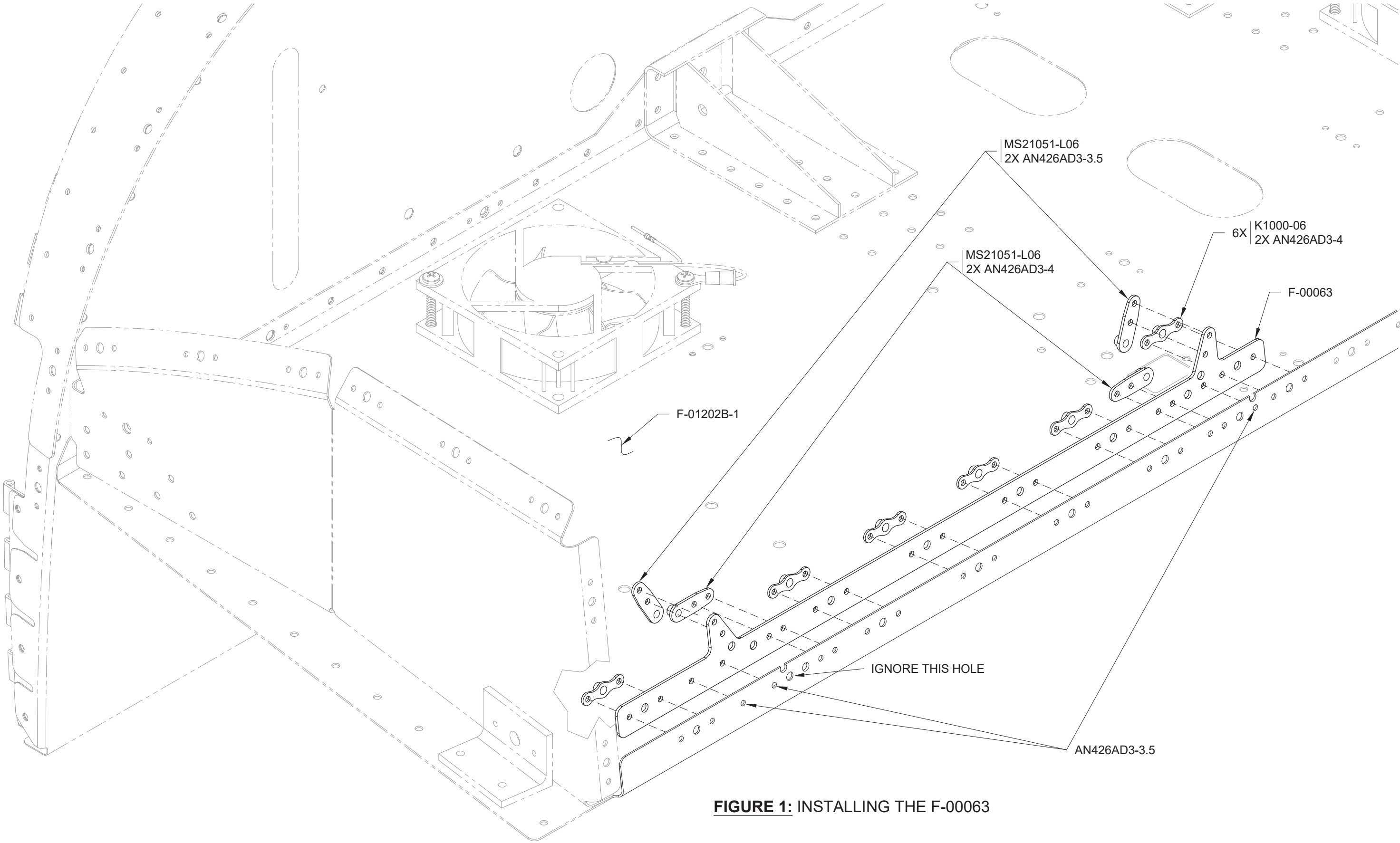
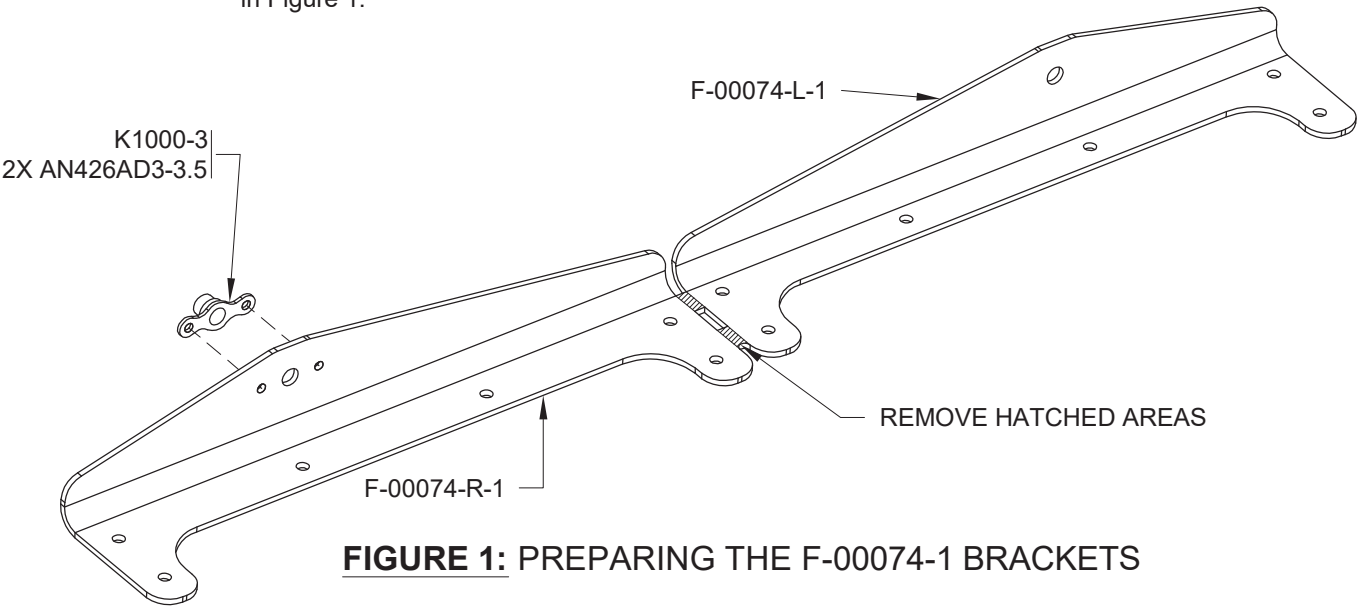


FIGURE 1: INSTALLING THE F-00063



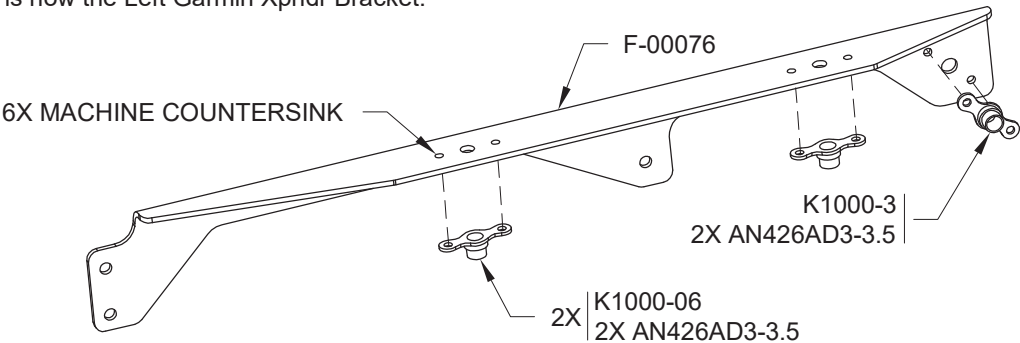
Step 1: Separate the F-00074-1 Garmin Xpndr Firewall Brackets as shown in Figure 1.

Step 2: Machine countersink the nutplate rivet holes in the F-00074-R-1, then install the nutplate as shown in Figure 1.

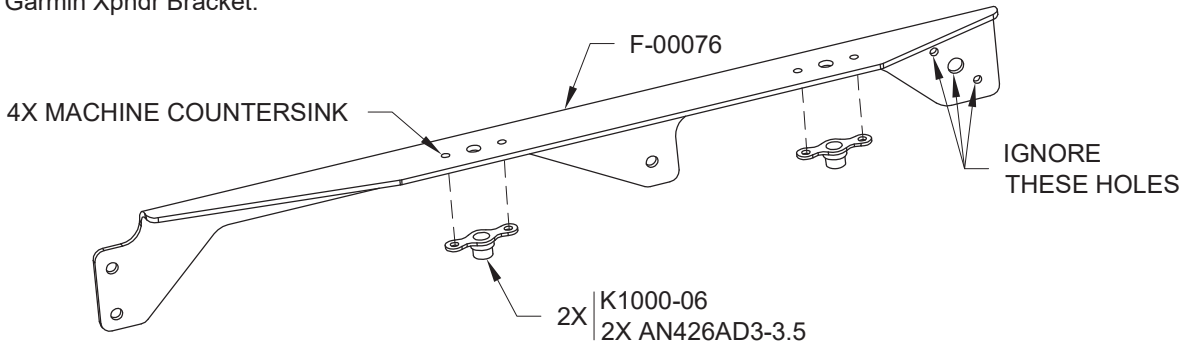


NOTE: Steps 3 and 4 apply to builders installing a Garmin GTR 200 Com Radio Only. Builders installing a Trig TY96 Com Radio may skip to Step 5.

Step 3: Machine countersink the nutplate rivet holes in one F-00076 Garmin Xpndr Brkt Left, then install the nutplates as shown in Figure 2. This is now the Left Garmin Xpndr Bracket.

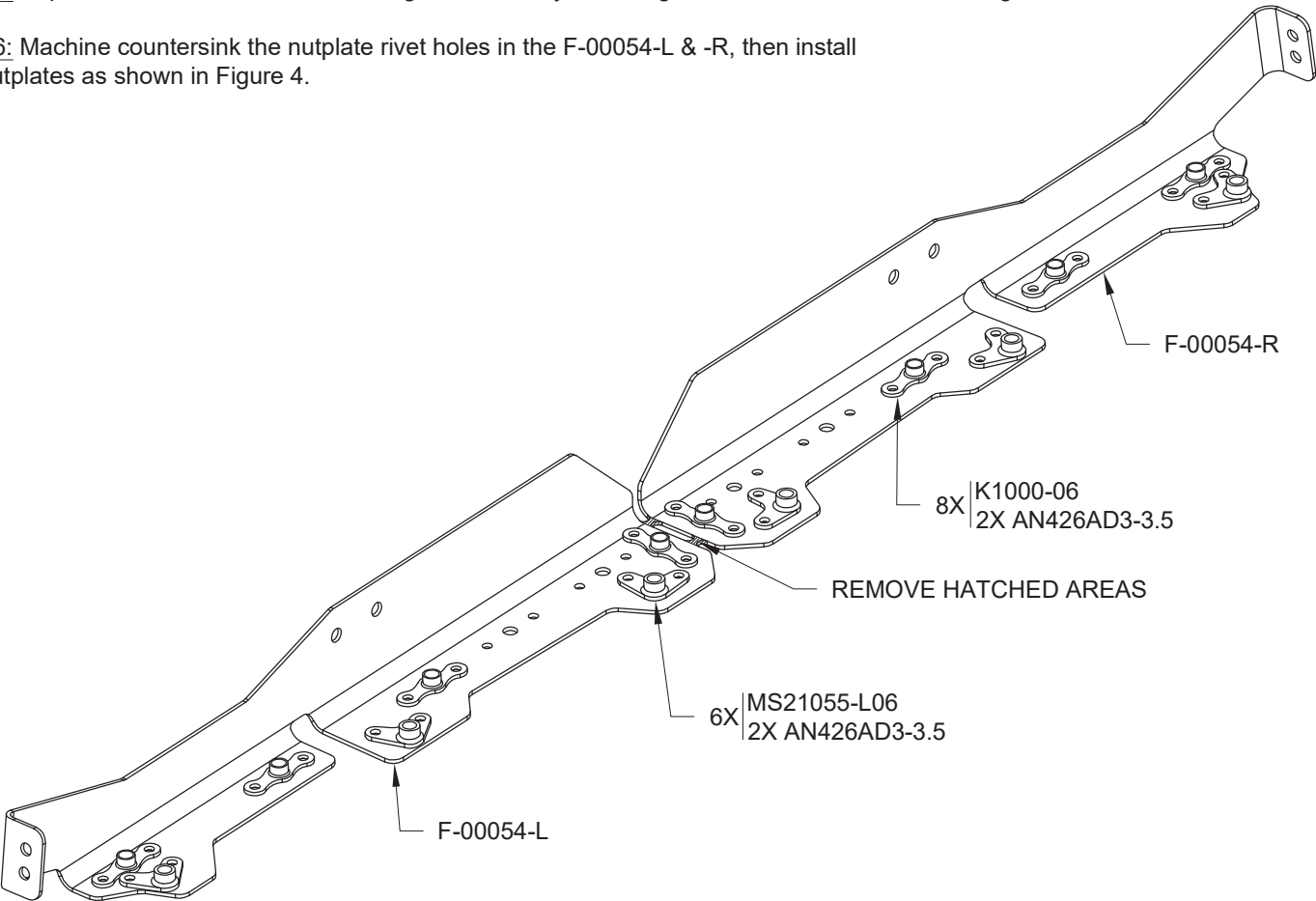


Step 4: Machine countersink the nutplate rivet holes in the other F-00076, then install the nutplates as shown in Figure 3. This is now the Right Garmin Xpndr Bracket.

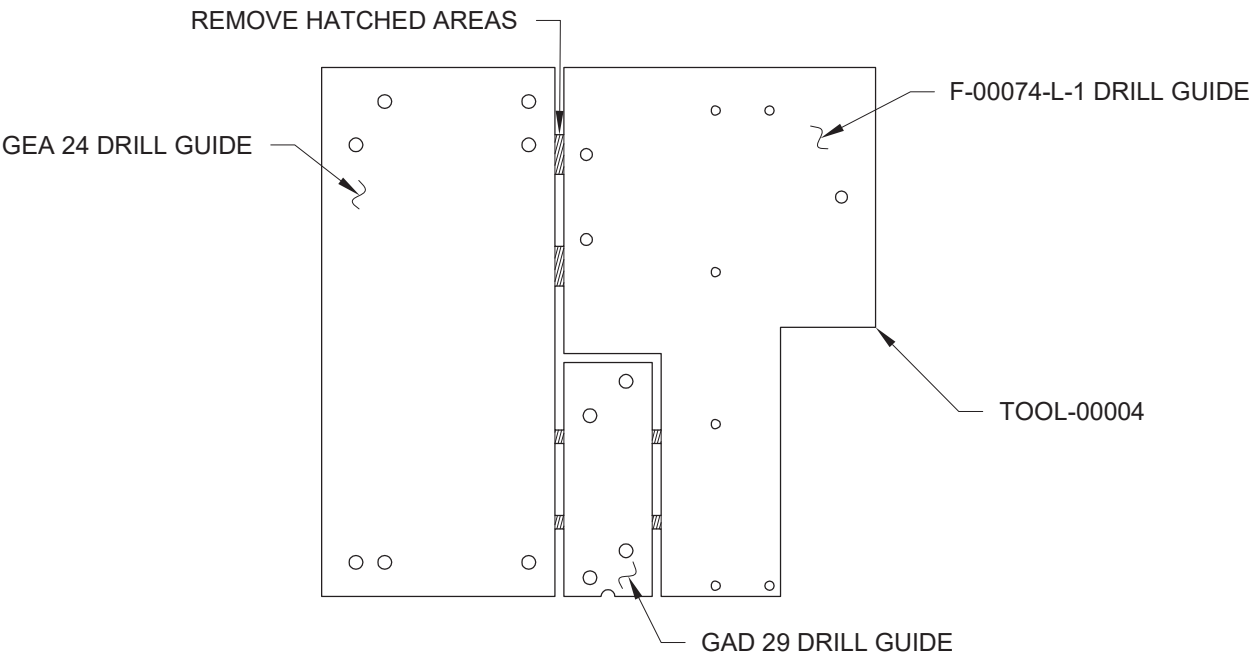


Step 5: Separate the F-00054 Inst Stack Angle GTR200 by removing the hatched areas shown in Figure 4.

Step 6: Machine countersink the nutplate rivet holes in the F-00054-L & -R, then install the nutplates as shown in Figure 4.



Step 7: Separate the TOOL-00004 Garmin RV-12iS Drill Templates into the three drill guides by removing the hatched areas shown in Figure 5.





NOTE: All steps on this page refer to Figure 1.

NOTE: Check both sides of the firewall for clearance before match-drilling holes to prevent inadvertent damage.

Step 1: Temporarily remove the Rotax Fuse Box from the forward side of the F-01201A-1 Firewall Top. See Section 46iS.

Step 2: Temporarily attach the GEA 24 Drill Guide and the F-00074-L-1 Drill Guide to the F-01201A-1 using screws.

Step 3: Remove the three rivets that will interfere with the F-00074-R-1 Garmin Xpndr Firewall Bracket. See Figure.

Step 4: Cleco the F-00074-R-1 to the F-01201A-1 as shown.

Step 5: Match-Drill #30 the holes in the F-00074-R-1 and the F-00074-L-1 Drill Guide as shown.

Step 6: Match-Drill #11 the holes in the GEA 24 Drill Guide as shown.

Step 7: Remove the F-00074-R-1 and both drill guides. Discard the two drill guides, but keep the screws, washers, and nuts.

Step 8: Debur the F-00074-R-1 and F-01201A-1.

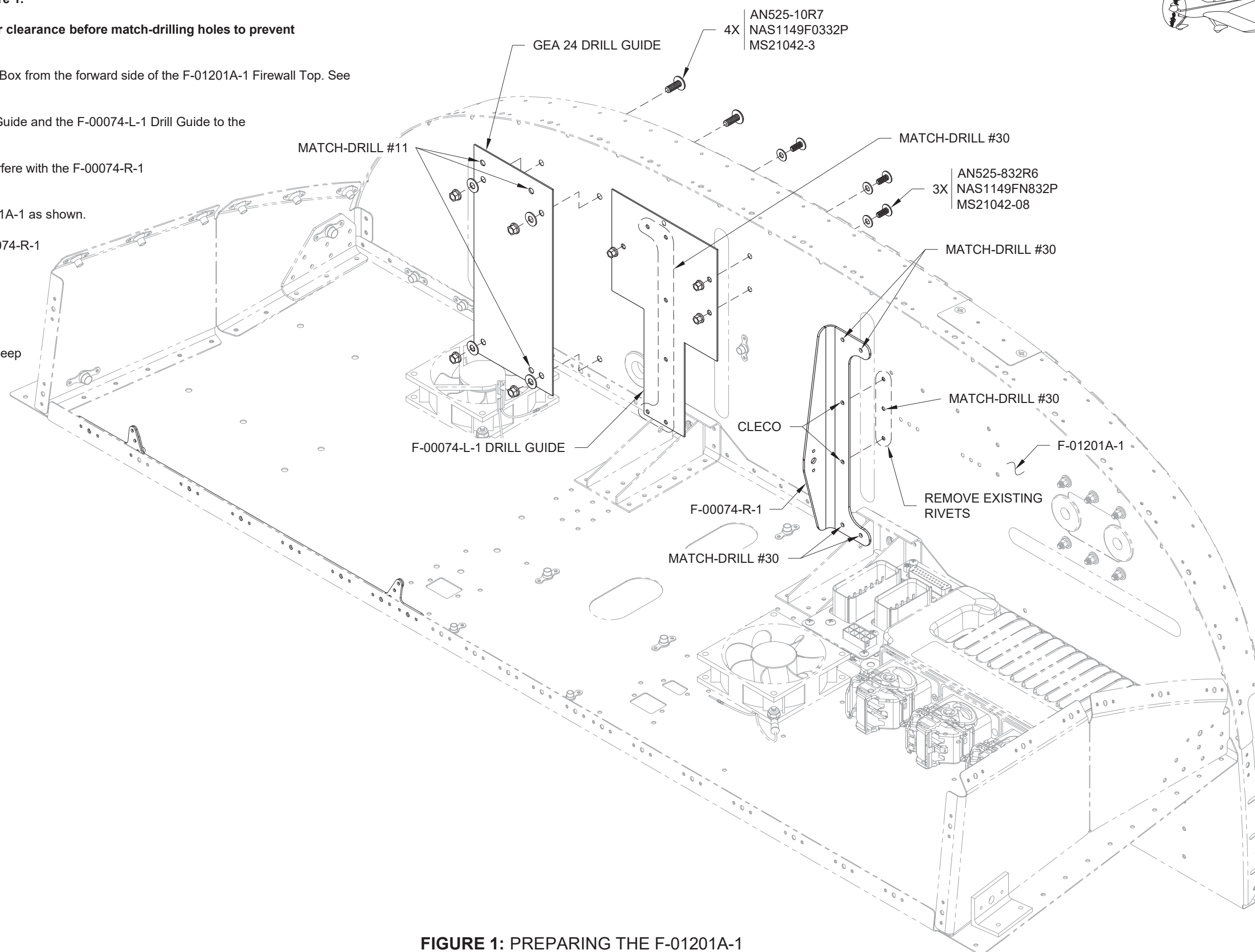


FIGURE 1: PREPARING THE F-01201A-1



NOTE: The steps on this page apply to builders installing a Trig TY96 Com Radio only. Builders installing the Garmin GTR 200 Com Radio may skip to page 42NiS-11.

Step 1: Remove the hatched area to separate the Trig Drill Guide from the F-00201-L and F-00201-R Trig TY96 Support Brackets as shown in Figure 1. Both drill guides are identical.

Step 2: Being mindful of the orientation chamfer, locate the Trig Drill Guide on the F-00054-L and F-00054-R with temporary fasteners as shown in Figure 2.

Step 3: Match-drill #27 the two holes from the Trig Drill Guide into the F-00054-L and F-00054-R as shown in Figure 2. Remove and discard the Trig Drill Guide when finished.

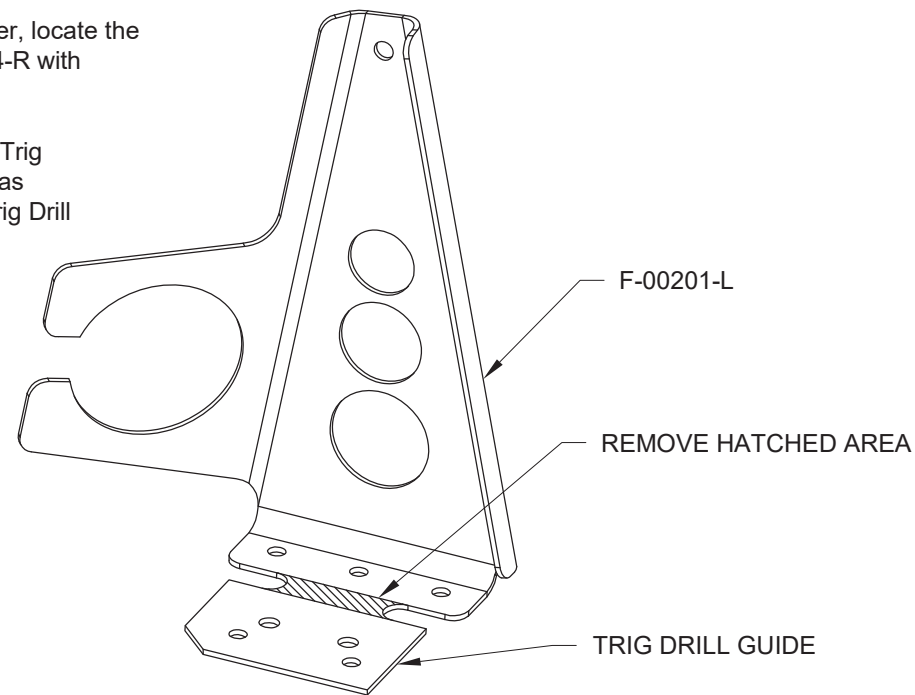


FIGURE 1: SEPARATING F-00201

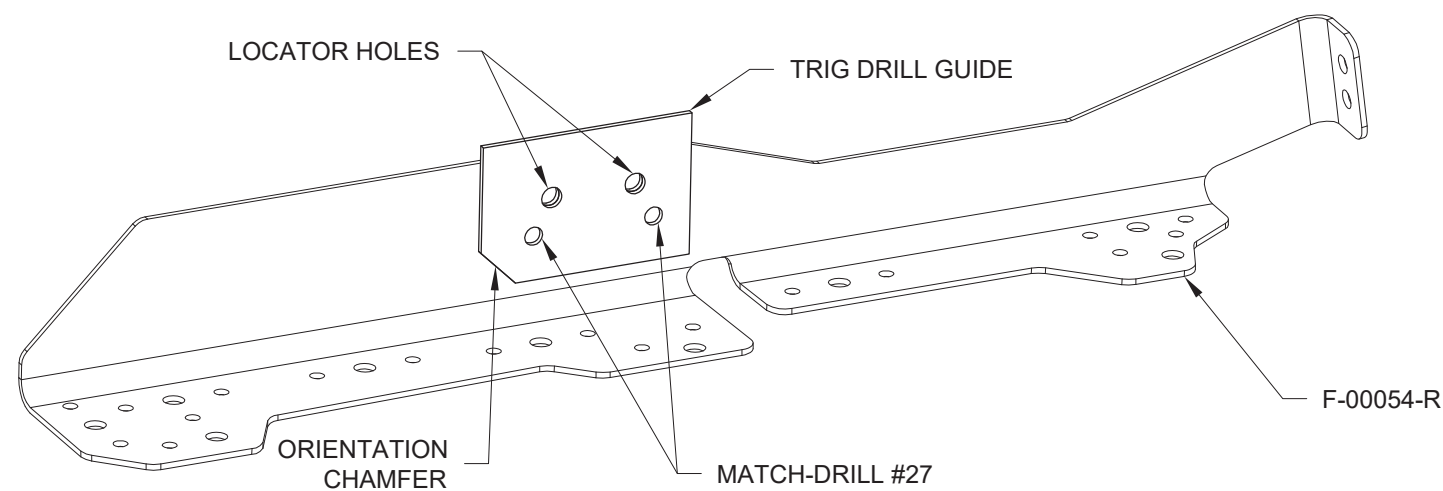


FIGURE 2: MATCH-DRILLING F-00054-R & -L

Step 4: Machine countersink the nutplate rivet holes in one F-00202 Trig/Garmin Xpndr Bracket, then install the nutplates as shown in Figure 3. This is now the Left Garmin Xpndr Bracket.

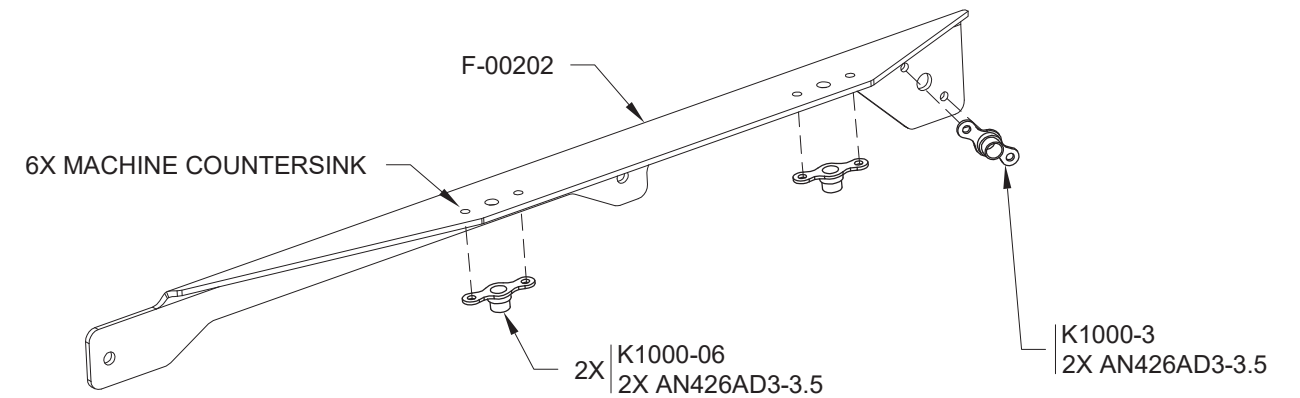


FIGURE 3: LEFT GARMIN XPNDR BRACKET

Step 5: Machine countersink the nutplate rivet holes in the other F-00202, then install the nutplates as shown in Figure 4. This is now the Right Garmin Xpndr Bracket.

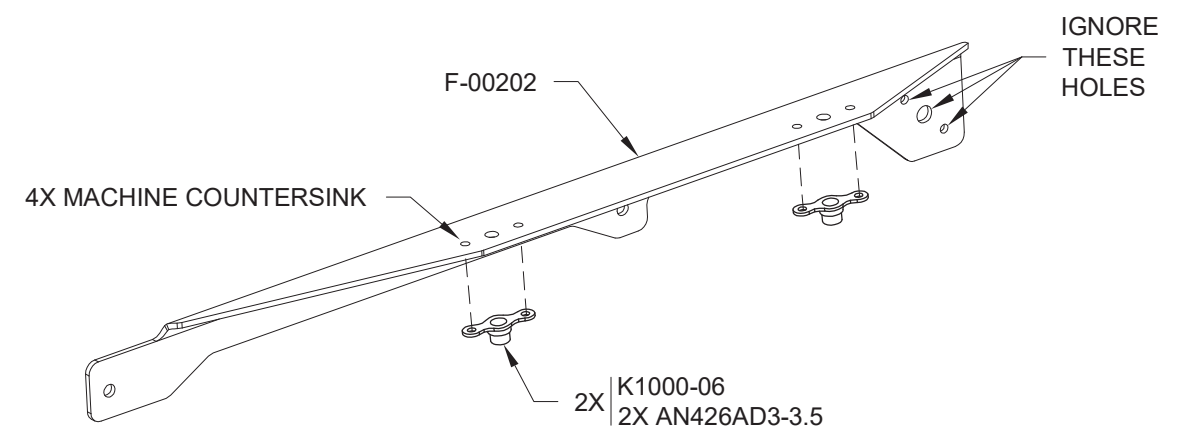
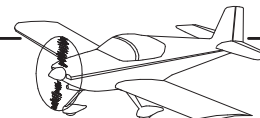


FIGURE 4: RIGHT GARMIN XPNDR BRACKET



NOTE: Refer to Figure 1 for all steps on this page.

Step 1 (Garmin GTR 200): Rivet the F-00055-L-1 & -R-1 GTR 200 Support Brackets and the F-00054-L & -R to the F-01202B-1 Panel Base, placing the manufactured rivet heads below the F-01202B-1.

Step 1 (Trig TY96): Rivet the F-00201-L & -R Trig TY96 Support Brackets and the F-00054-L & -R to the F-01202B-1 Panel Base, placing the manufactured rivet heads below the F-01202B-1.

Step 2: Rivet the F-00074-L-1 & -R-1 Garmin Xpndr Firewall Brackets to the F-01201A-1 Firewall Top, placing the manufactured rivet heads on the forward side of the F-01201A-1.

Step 3: Install the screws, nuts, and washers as shown. These fasteners fill holes in the F-01201A-1 not used for the Garmin installation.

Step 4: On the forward side of the firewall only, cover the end of each rivet and screw with a thin layer of fuel tank sealant.

Step 5: Route the main wire harness branches through the slotted holes in the F-00055-L-1 & -R-1 (GTR 200) or the F-00201-L & -R (TY96) Support Brackets. Secure the wire harness with the snap bushings in the Support Brackets. It may be necessary to split the snap bushings to fit around the wire harness branches. Be careful not to damage the wires.

Step 6: Install the snap bushing in the F-00055-L-1 (GTR 200) or F-00201-L (TY96) then route the FF-1216 Pitot Line (installed in Section 47iS/U) through the snap bushing as shown and through either oval cutout in the F-01202B-1.

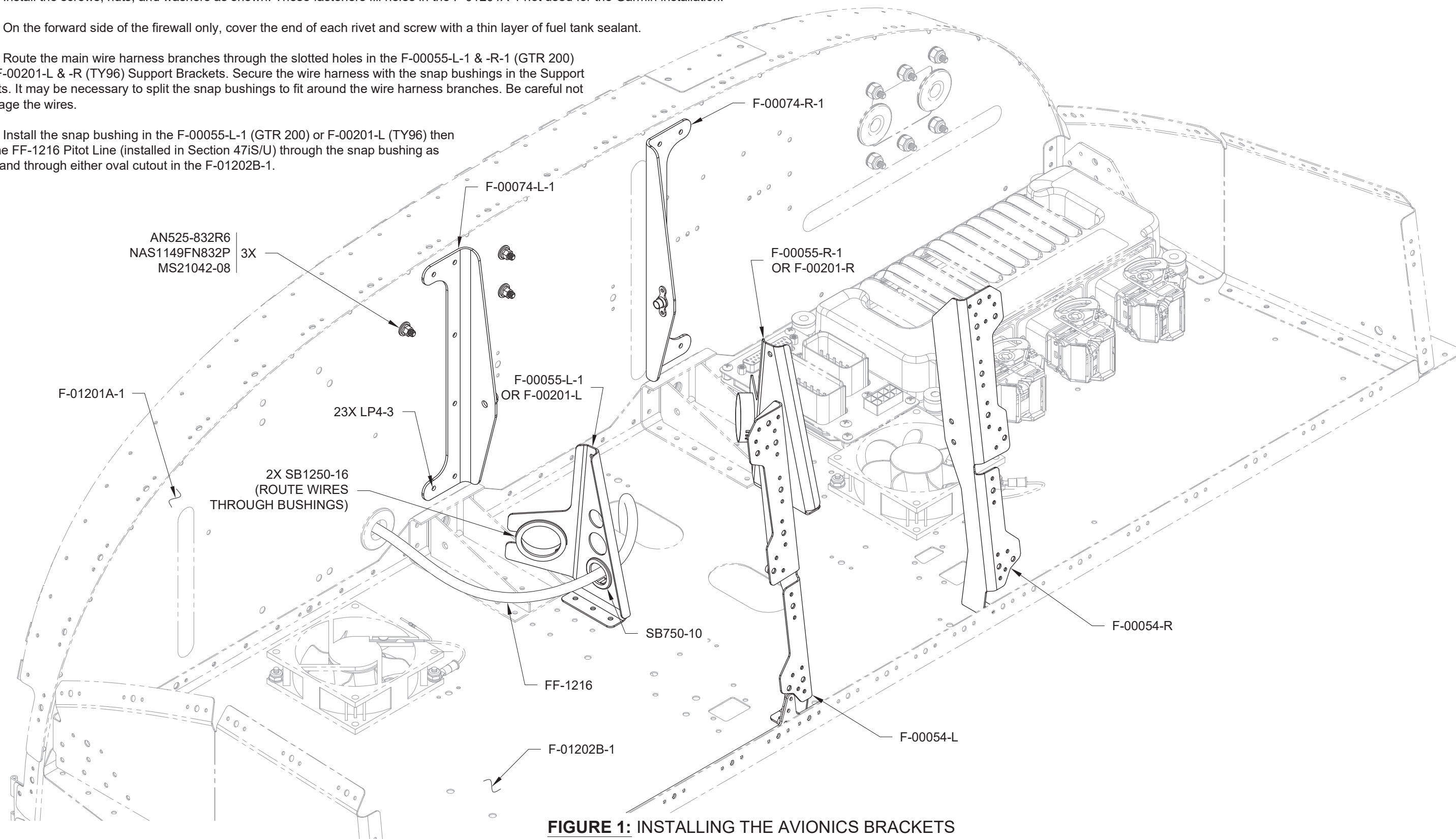


FIGURE 1: INSTALLING THE AVIONICS BRACKETS



NOTE: The steps on this page apply to builders installing a Garmin GTR 200 Com Radio only. Builders installing a Trig TY96 Com Radio may skip to page 42NiS-13.

Step 1: Assemble the 115-01879-00 GTR 200 Backplate and 37-pin d-sub connector labeled "COM" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) as shown in Figure 1 and the GTR 200 Installation Manual.

Step 2: Connect the coax antenna cable labeled "COM" from the WH-00134-2 to the GTR 200 backplate, then install the GTR 200 backplate in the 115-01878-00 GTR 200 Rack as shown in the GTR 200 Installation Manual.

Step 3: Install the GTR 200 Rack, Left Garmin Xpndr Bracket, and Right Garmin Xpndr Bracket using the hardware called out in Figure 2.

Step 4: Install the 115-01771-00 GTX 35R Rack as shown in Figure 2.

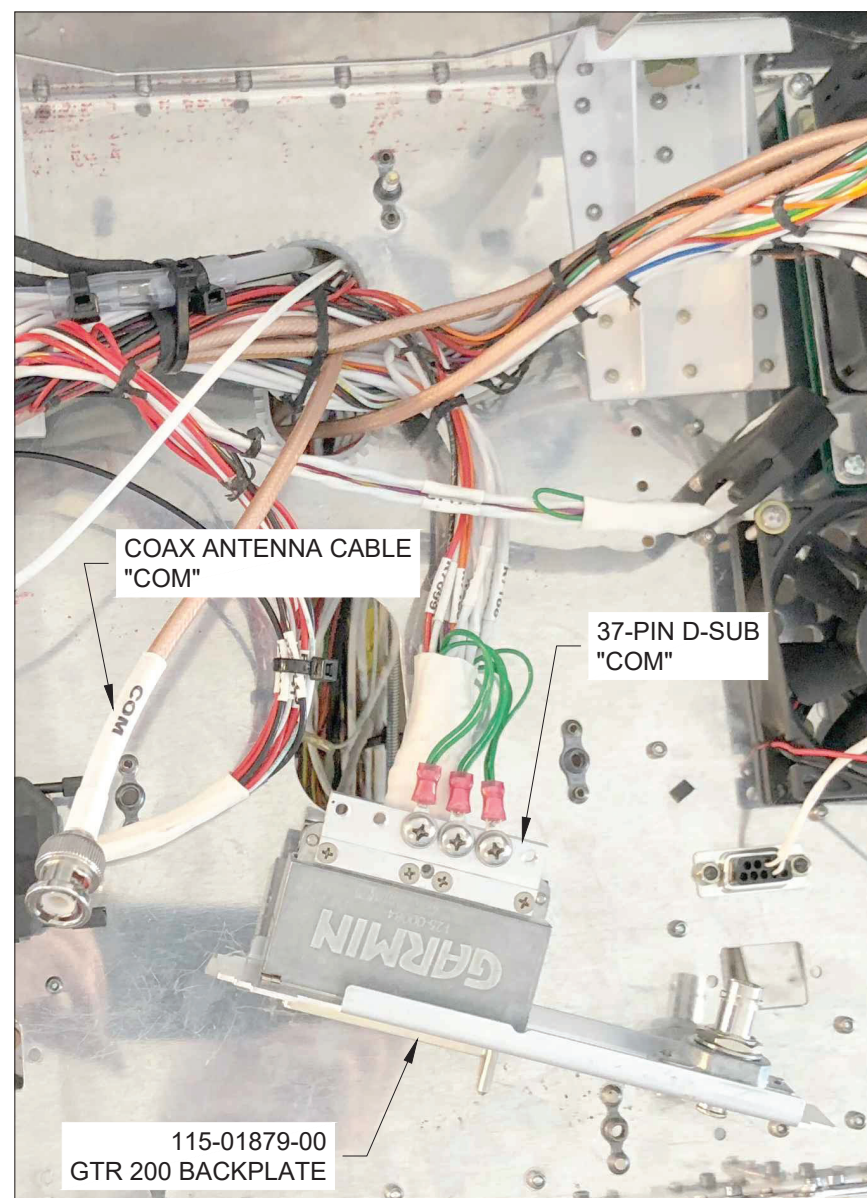


FIGURE 1: ASSEMBLING THE GTR 200 BACKPLATE

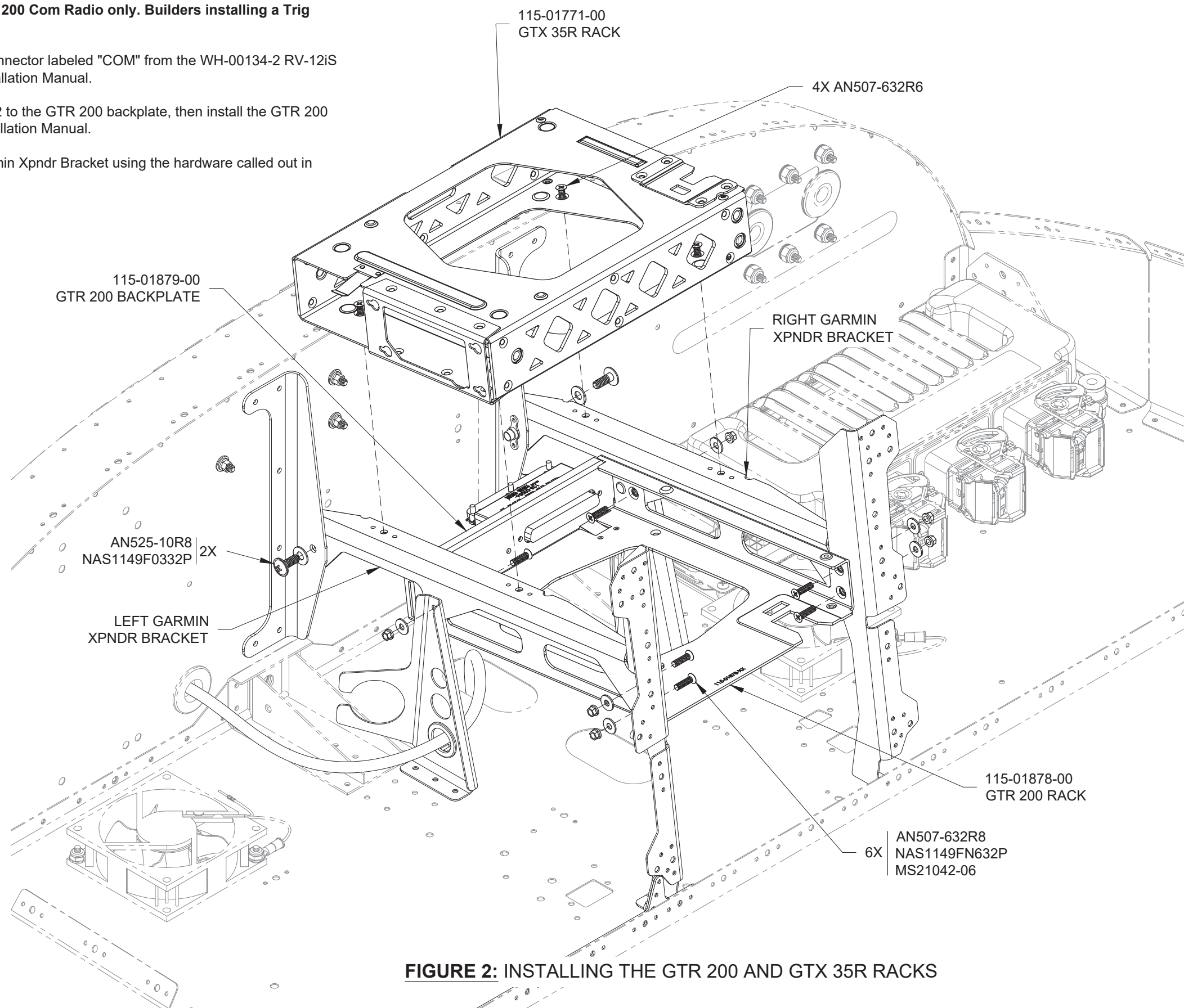


FIGURE 2: INSTALLING THE GTR 200 AND GTX 35R RACKS



NOTE: The steps on this page apply to builders installing a Trig TY96 Com Radio only. Builders installing the Garmin GTR 200 Com Radio may skip to page 42NiS-14.

NOTE: Review the assembly and installation drawings in the Trig TY96 Installation Manual prior to, and during completion of the steps on this page.

Step 1: Locate the 25-pin d-sub connector labeled "COM" on the WH-00134-2 RV-12iS Garmin Common Harness (VFR) and place it inside the backshell provided with the Trig TY96.

Step 2: Use the hardware provided with the Trig TY96 to attach the Trig backshell and BNC connector to the TY96 backplate. Verify proper orientation of the backshell on the backplate.

Step 3: Secure all signal ground and shield ground ring terminals to the backplate as shown in the Trig TY96 Installation Manual.

Step 4: Attach the TY96 Mounting Tray and the Left & Right Garmin XPNDR Brackets to the F-00201-L & -R and F-00054-L & -R as shown in Figure 1.

Step 5: Install the backplate assembly into the TY96 Mounting Tray as per the Trig TY96 Installation Manual.

Step 6: Connect the coax antenna cable labeled "COM" to the BNC in the TY96 backplate assembly.

Step 7: Install the 115-01771-00 GTX 35R Rack as shown in Figure 1.

Note: Throughout the rest of this section, all Com Radio and Support Bracket references and depictions refer to a GTR 200 and F-00055-L & -R. However, installation of further components is identical for the GTR 200 or Trig TY96 Systems.

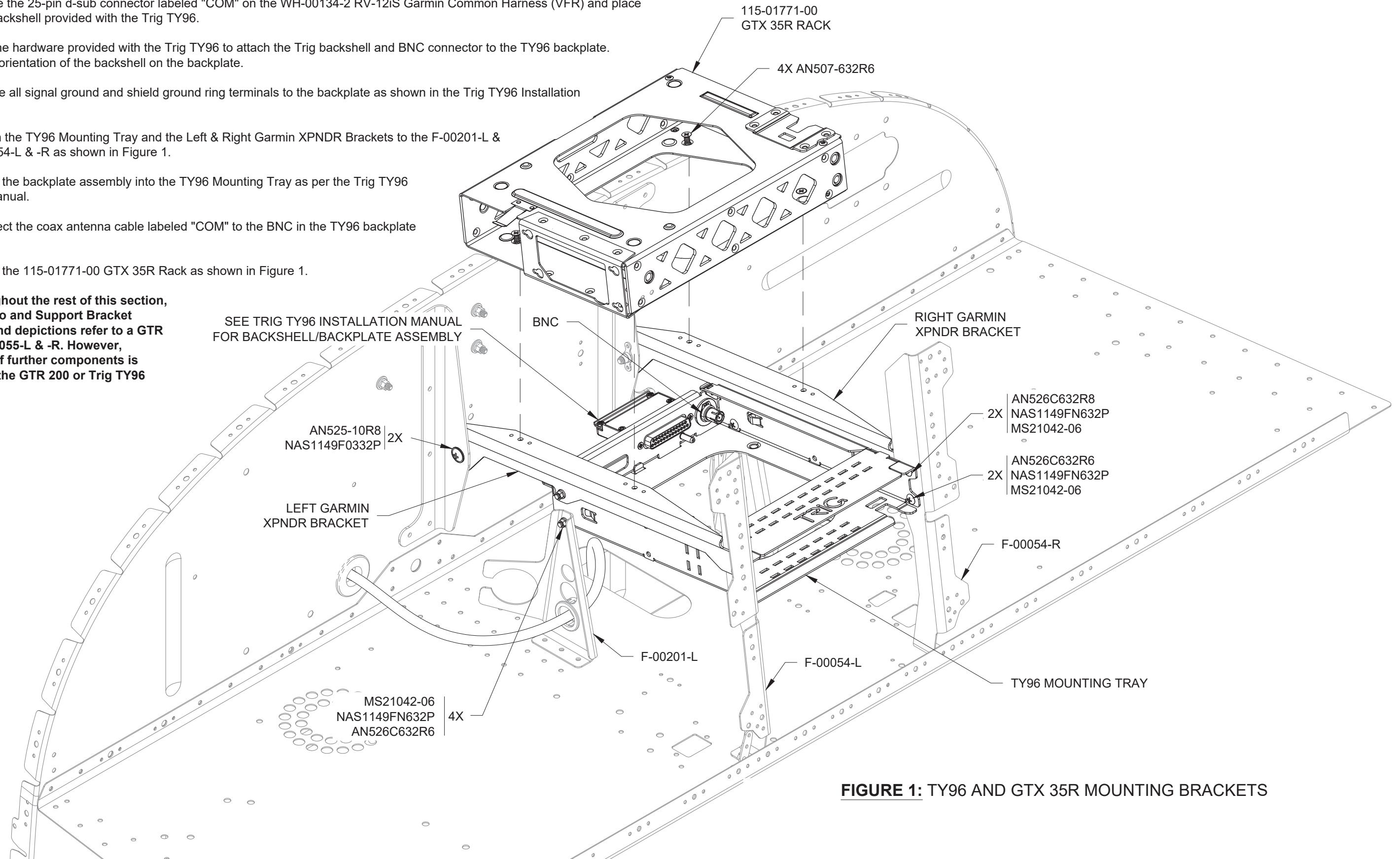


FIGURE 1: TY96 AND GTX 35R MOUNTING BRACKETS

- Step 1:** Apply a thin smear of fuel tank sealant around the three holes called out in Figure 1.
- Step 2:** Install the GEA 24 Engine Indication System and F-00145 GEA24 Adapter Plate onto the F-01201A-1 Firewall Top with the hardware called out in Figure 1.
- Step 3:** Apply a thin coating of fuel tank sealant over the heads of the screws on the forward side of the firewall and allow to cure.
- Step 4:** Reinstall the Rotax Fuse Box on the F-01201A-1. See Section 46iS.
- Step 5:** Connect the 9-pin, 37-pin, and 50-pin d-sub connectors labeled "EMS" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the GEA 24. See Figure 2.

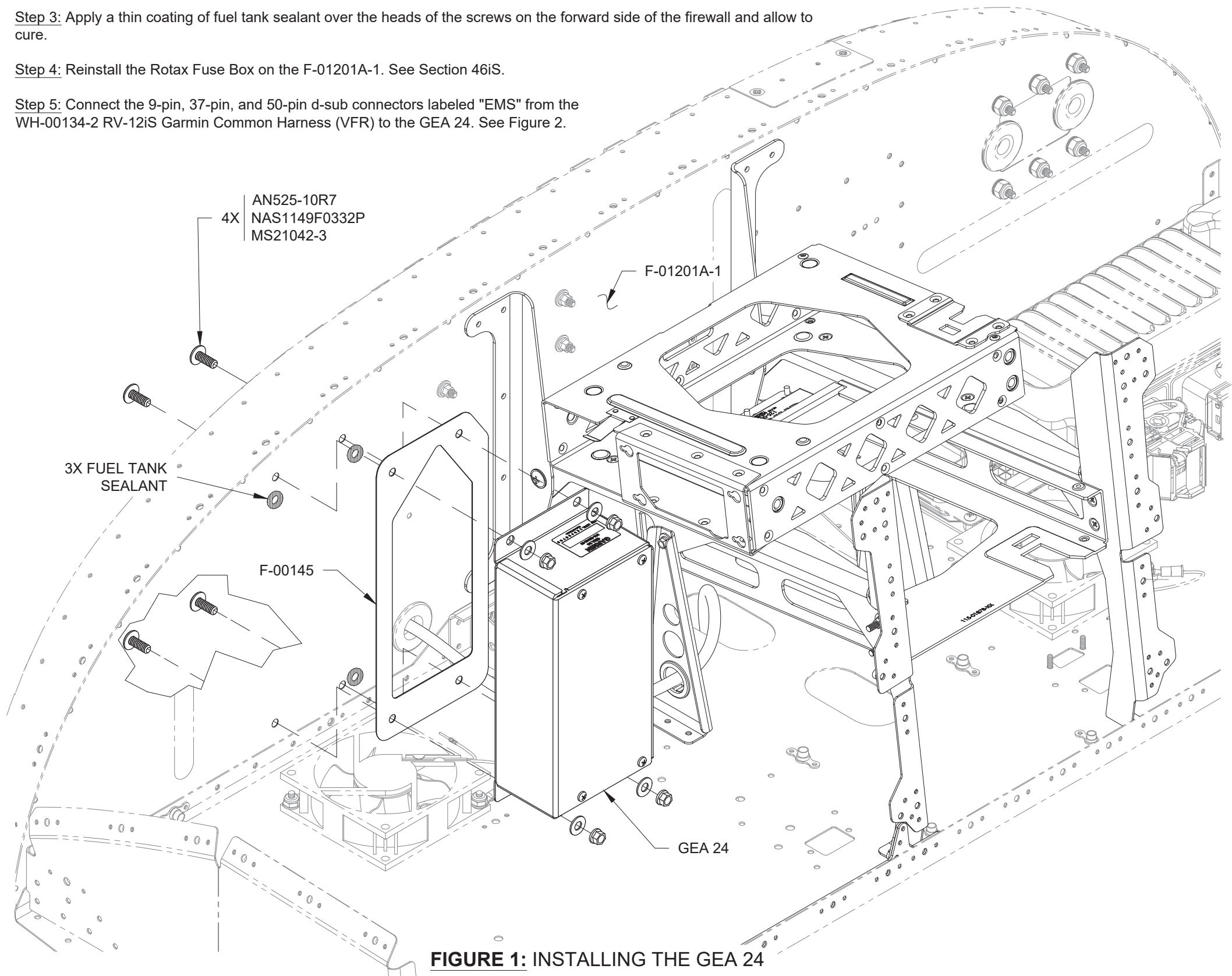


FIGURE 1: INSTALLING THE GEA 24

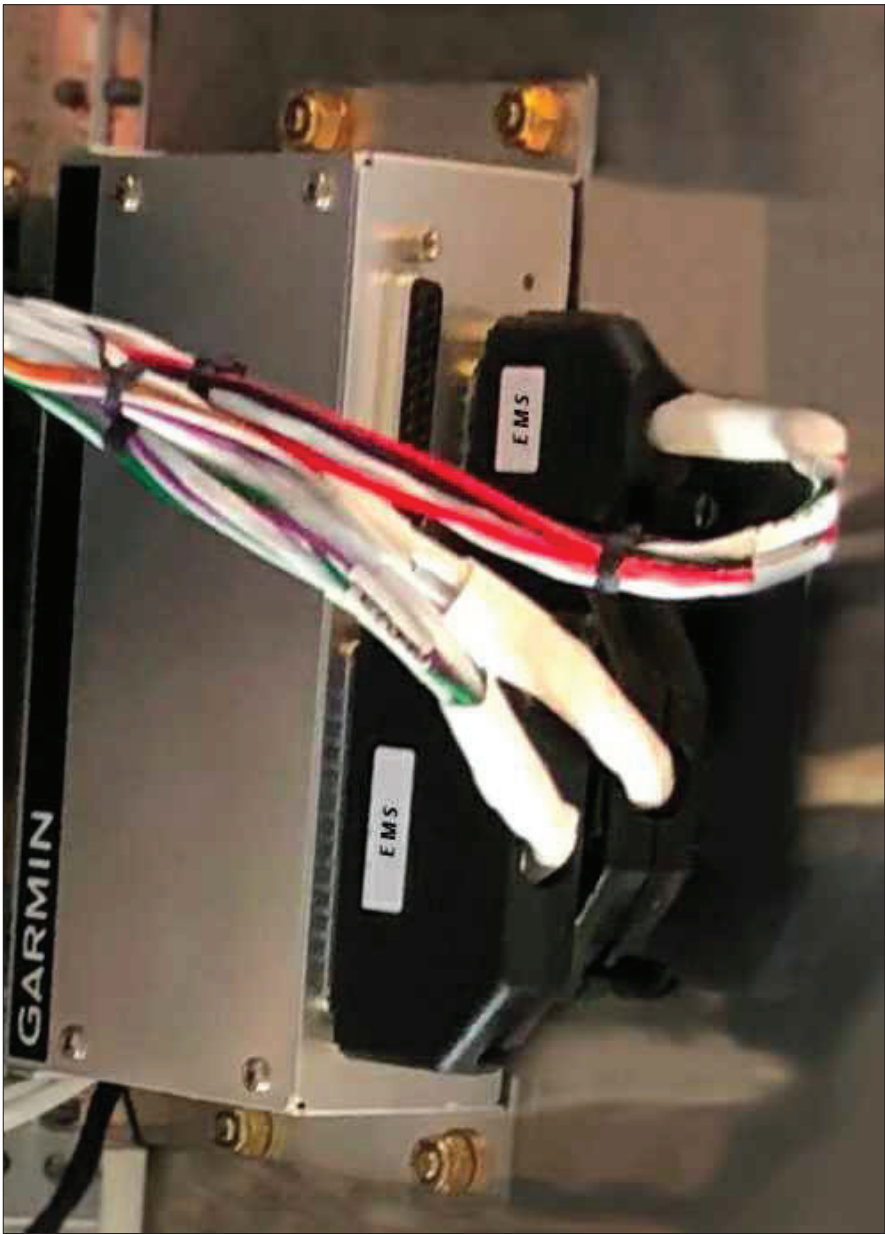
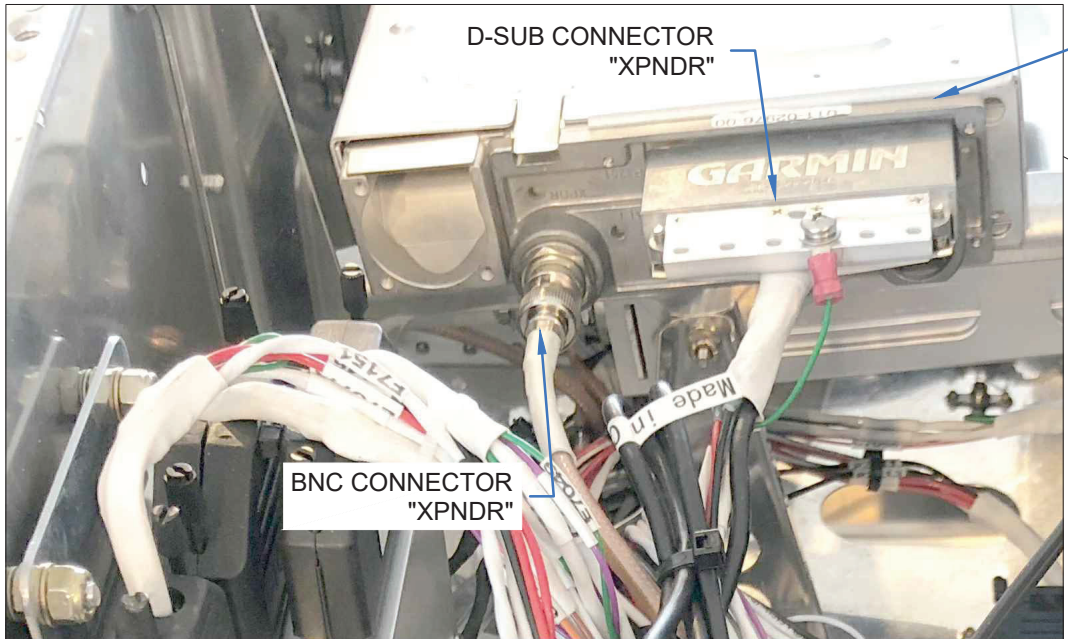
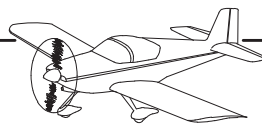


FIGURE 2: CONNECTING THE GEA 24



011-02976-00
GTX 35R BACKPLATE
ASSEMBLY

NOTE: Refer to Figure 1 for all steps on this page.

Step 1: Install the GPS 20A onto the F-01202B-1 Panel Base using screws, washers, and nuts as shown.

Step 2: Install the IBBS-12V-3AH Back-Up Battery onto the F-01202B-1 using screws, washers, and nuts. Connect the P7211, P7213, and P7251 ground terminals from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the corners of the IBBS-12V-3AH as shown.

Step 3: Connect the d-sub connector labeled "XPNDR" and the BNC connector labeled "XPNDR" from the WH-00134-2 to the 011-02976-00 GTX 35R Backplate Assembly as described in the GTX 35R Installation Manual. See the detail view.

Step 4: Install the GTX 35R Backplate Assembly and GTX 35R into the 115-01771-00 GTX 35R Rack as described in the GTX 35R Installation Manual.

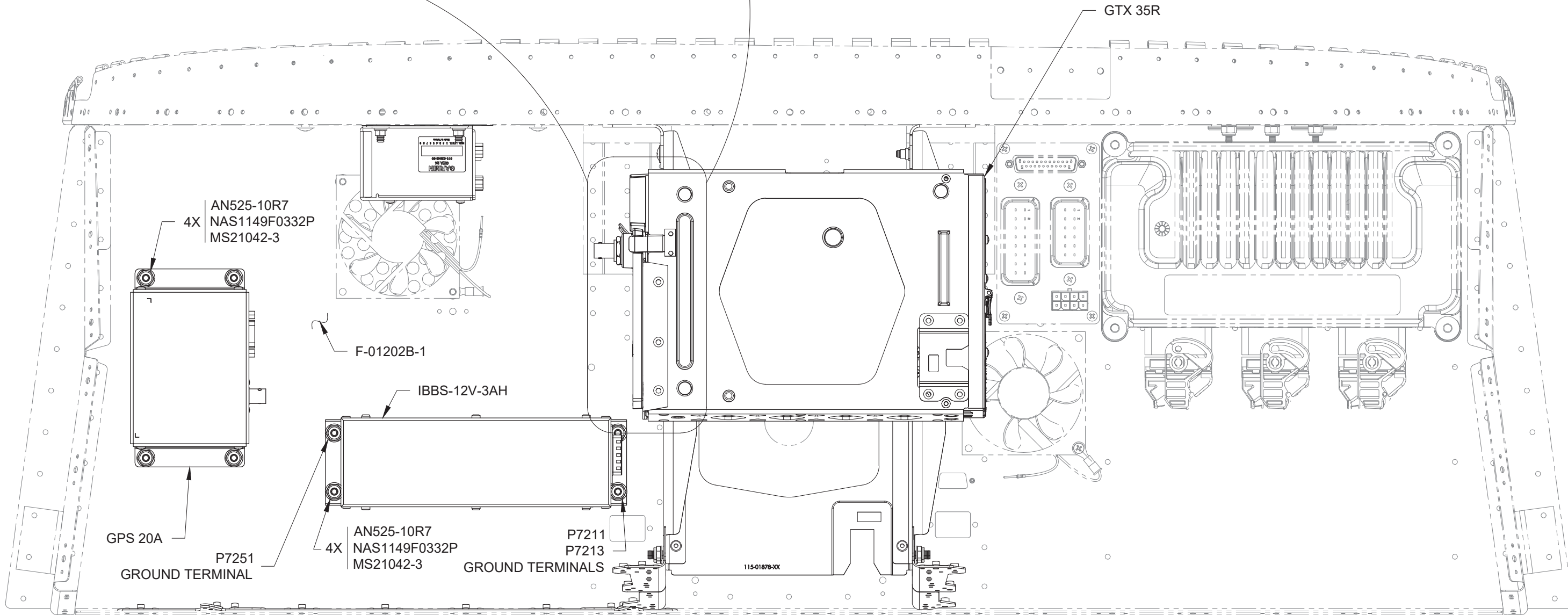


FIGURE 1: INSTALLING THE GPS 20A, GTX 35R, & BACK-UP BATTERY

- Step 1: Connect the 9-pin d-sub and BNC connectors labeled "GPS" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the GPS 20A as shown in Figure 1.
- Step 2: Connect the 15-pin d-sub connector labeled "BATT" from the WH-00134-2 to the IBBS-12V-3AH. See Figure 1.
- Step 3: Gather the WH-00134-2 near the inboard aft corner of the ES CPU Fan using the clamp as shown and install the clamp onto the F-01202B-1 using the screw called out in Figure 1.
- Step 4: Route and stow the 50-pin d-sub connector labeled "MFD" from the WH-00134-2 as shown in Figure 2.

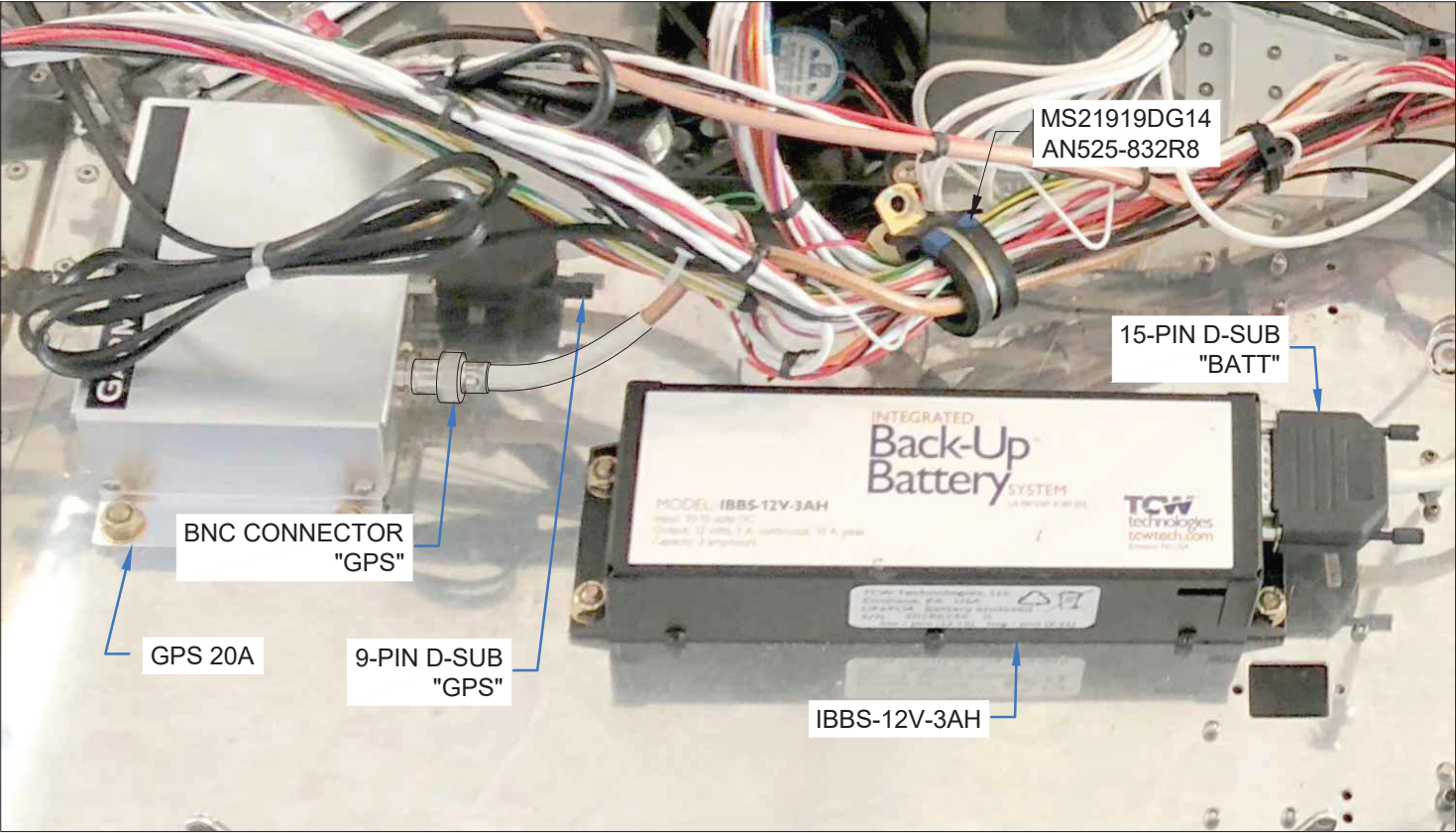


FIGURE 1: CONNECTING THE GPS 20A & BACK-UP BATTERY

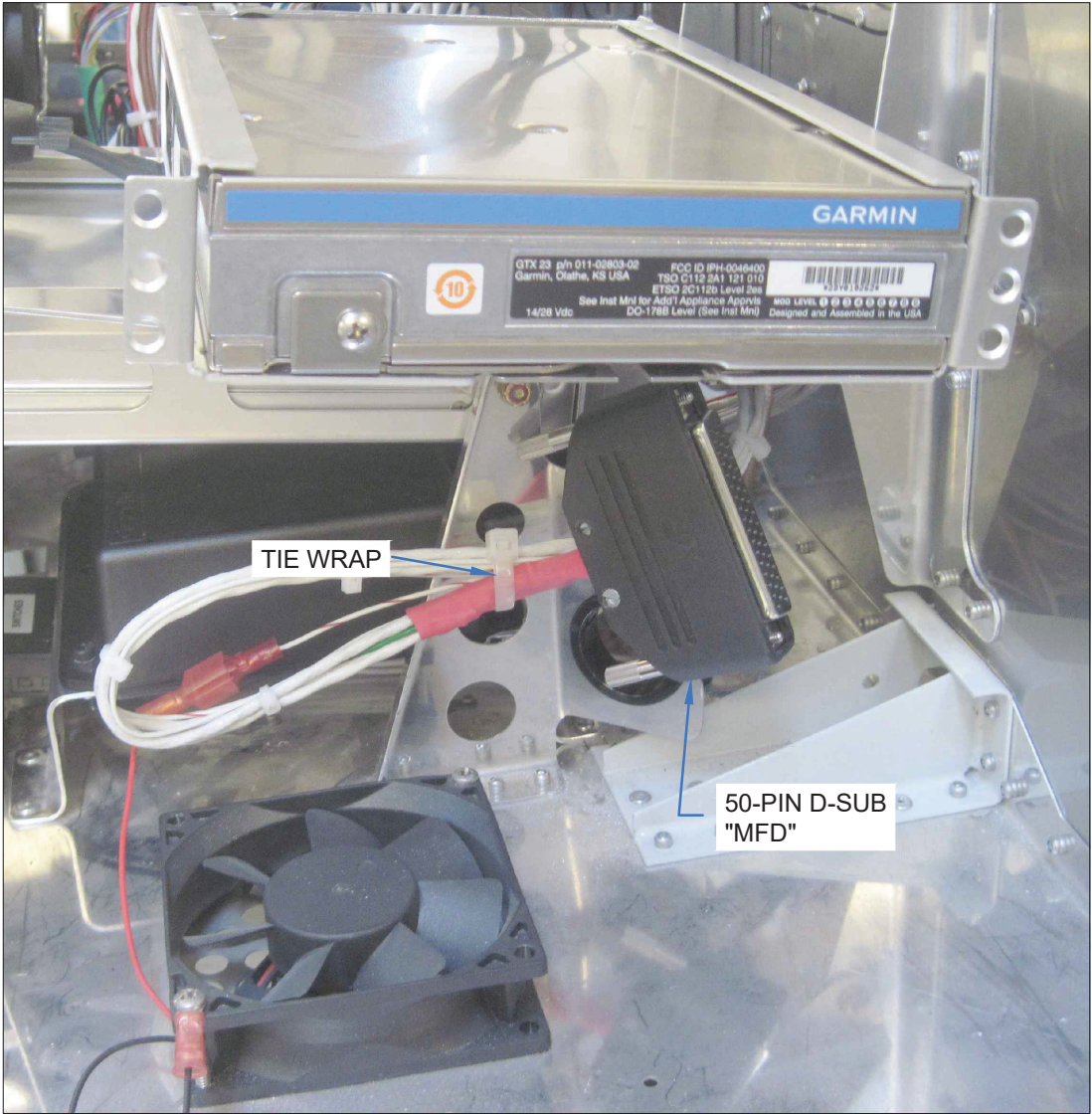


FIGURE 2: SECURING THE 50-PIN D-SUB CONNECTOR "MFD"

Step 1: Temporarily install the F-00043-1 onto the Upper Forward Fuselage Skin Assembly. See Section 29iS/U and Figure 1.

Step 2: Match-Drill #27 the hole indicated in Figure 1 into the F-1202D-L Panel Attach Strip.

Step 3: Mark the area to be removed from the F-1202D-L as shown in Figure 1.

Remove the F-00043-1.

Step 4: Remove material from the F-1202D-L using the marks made in Step 3.

Step 5: Remove the nutplate from the F-1202D-L as shown in the detail view in Figure 1.

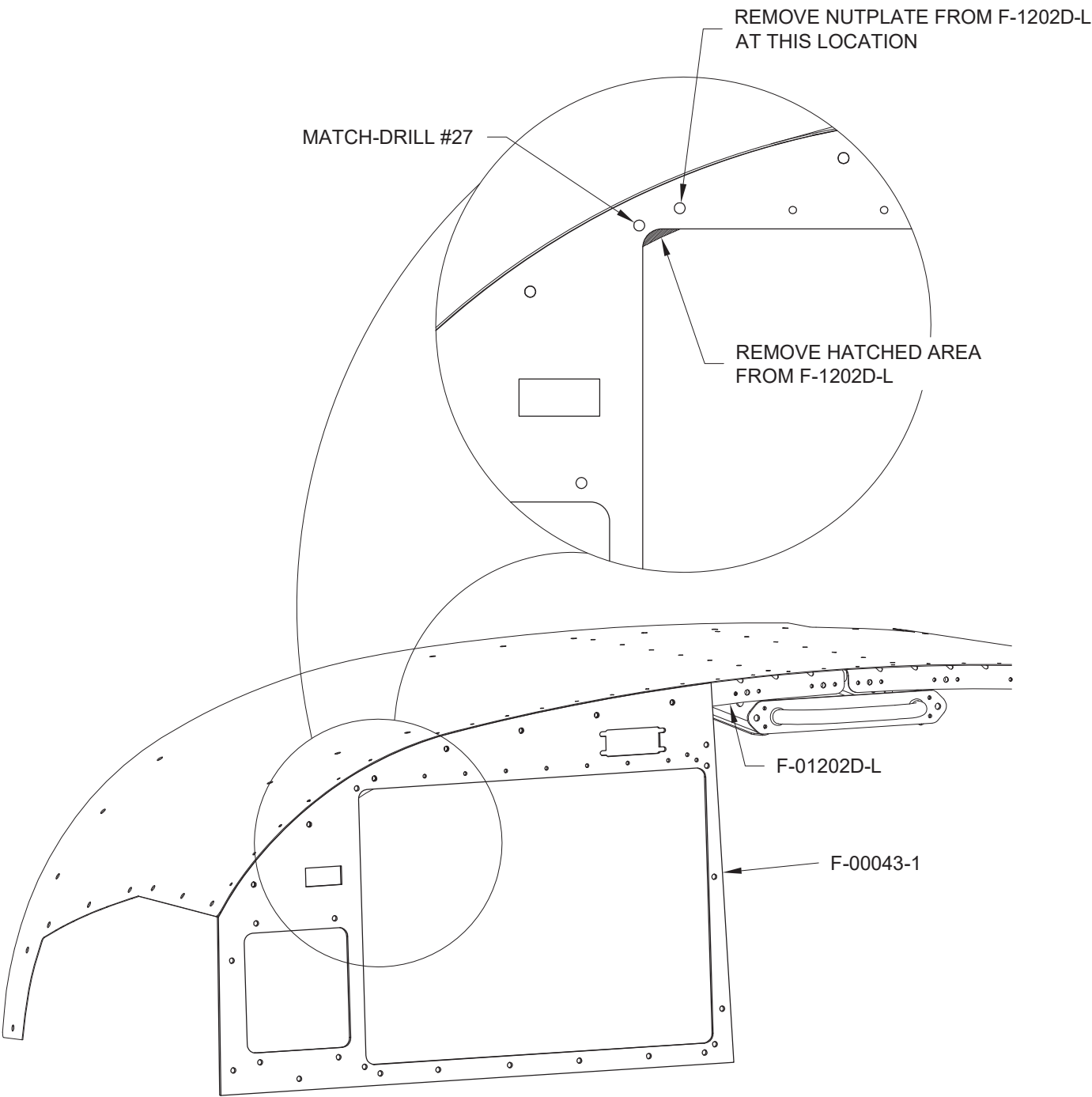


FIGURE 1: PREPARING THE F-1202D-L

Step 6: Use two screws to temporarily attach nutplates to the aft side of the F-1202D-L as shown in Figure 2. Use the hole drilled in Step 2 to locate the left nutplate. Use the preexisting hole to locate the right nutplate. Center the nutplates on the flange of the strip.

Step 7: Match-Drill #40 the nutplate attach holes into the F-1202D-L using the nutplates as shown in Figure 2.

Step 8: Dimple the nutplates and #40 holes drilled in the previous step.

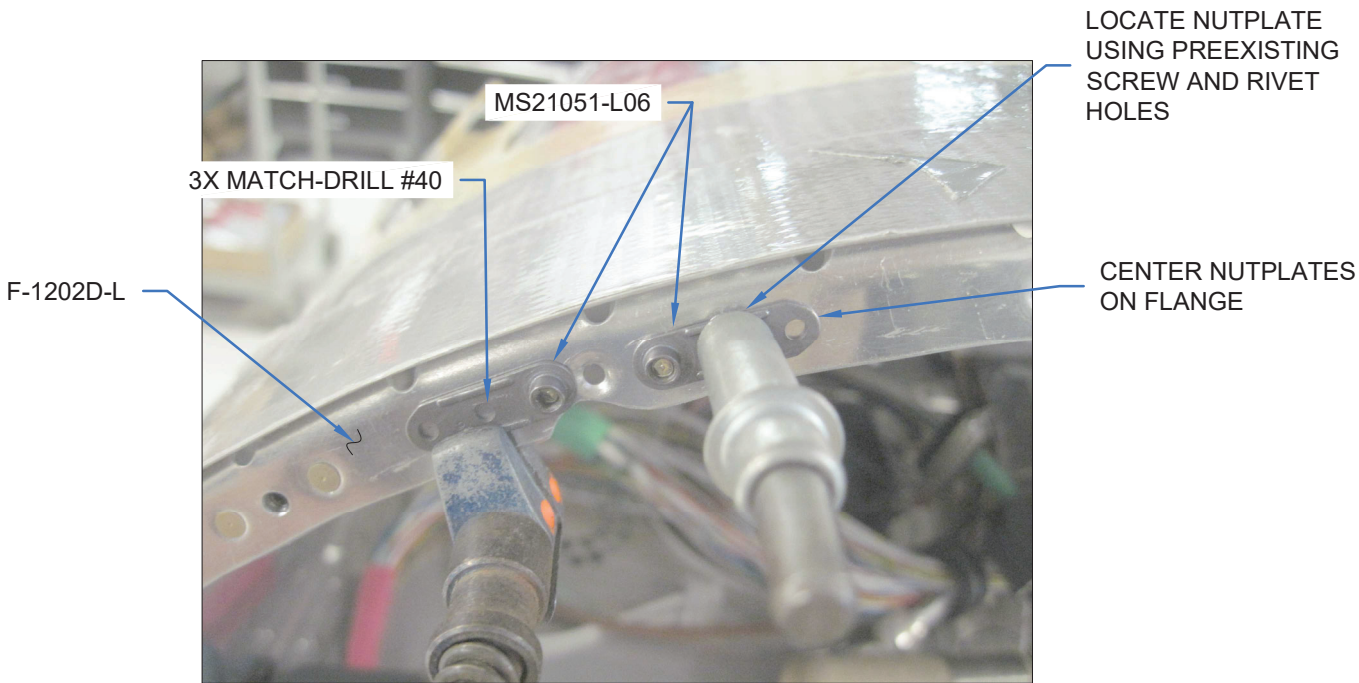


FIGURE 2: NOTCH FOR DISPLAY & NEW NUTPLATES

Step 9: Rivet the nutplates to the forward side of the F-1202D-L. See Figure 3.

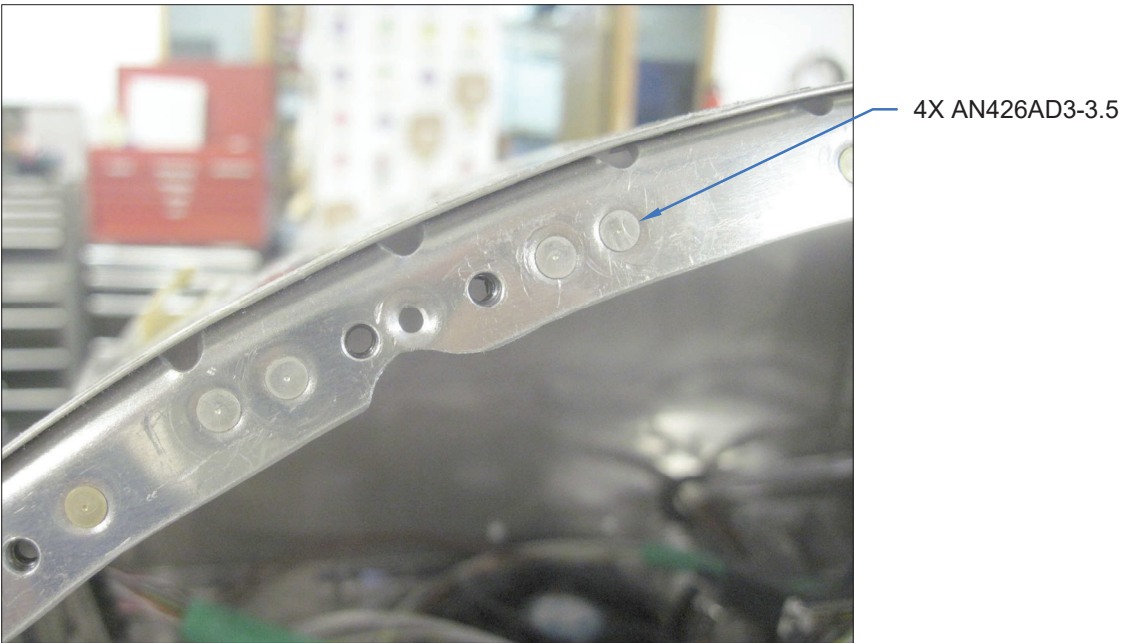


FIGURE 3: RIVETING THE NEW NUTPLATES



NOTE: An optional powdercoated and screen printed panel kit is available for RV-12iS single-screen G3X Touch systems. Order the 12 G3X PANEL PKG.SINGLE-IS-PC kit from Van's aircraft.

NOTE: If you are using the 12 G3X PANEL PKG.SINGLE-IS-PC kit, skip the steps on this page.

Step 1: Remove the hatched areas shown in Figure 1 from the F-00064 Stiffener.

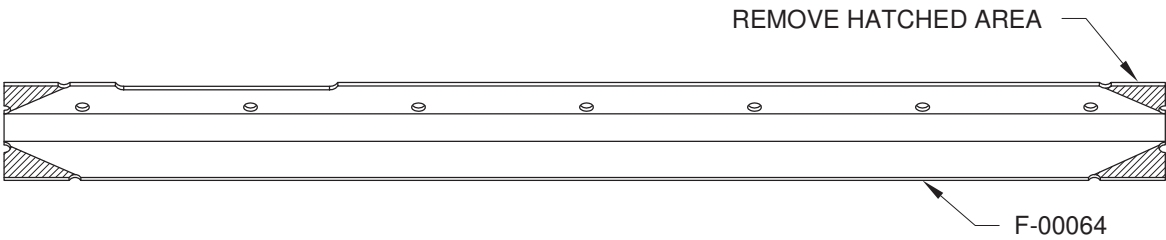


FIGURE 1: PREPARING THE STIFFENER

Step 2: Machine countersink the aft (pilot) side of the F-00043-1 as shown in Figure 2.

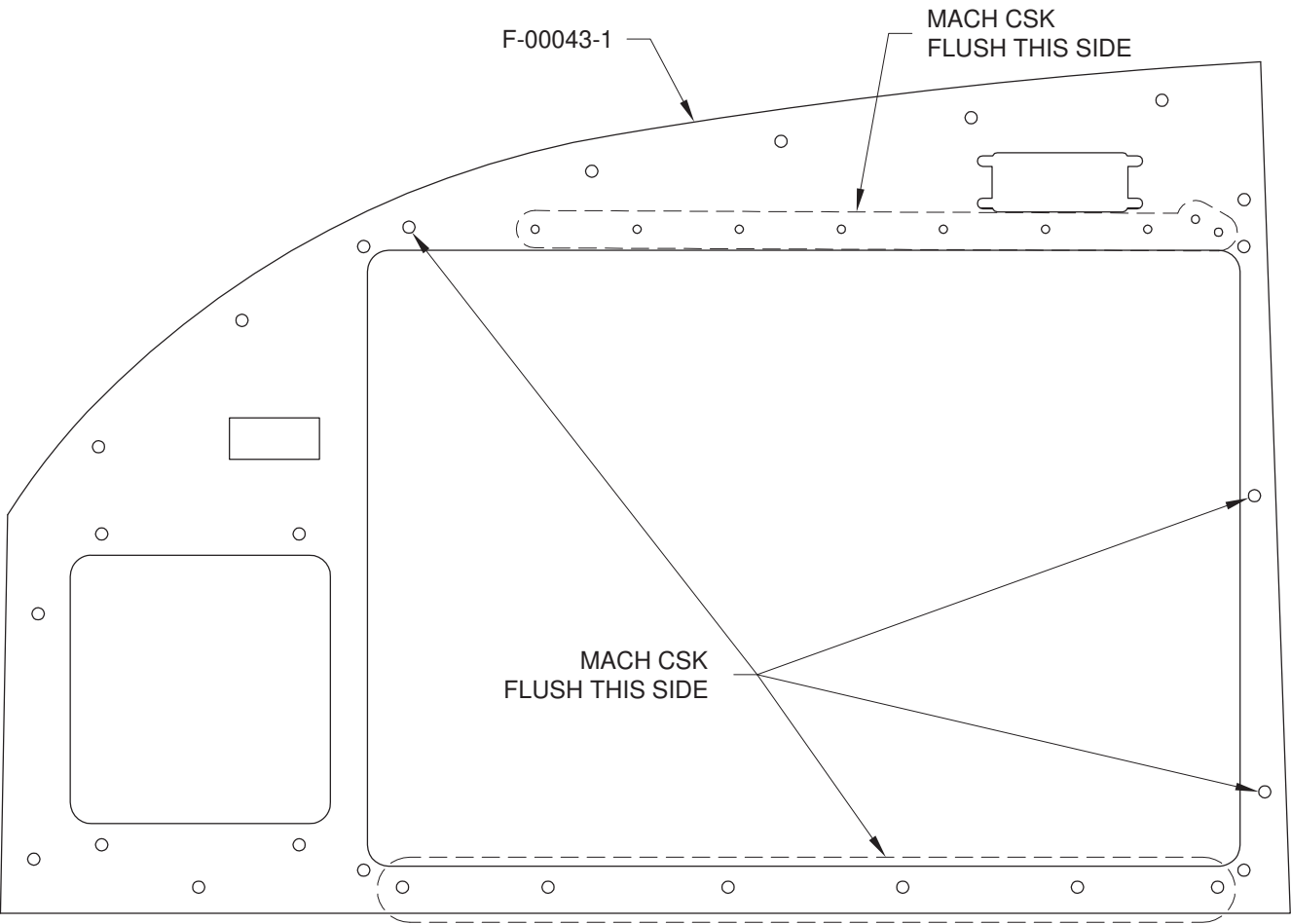


FIGURE 2: COUNTERSINKING THE F-00043-1

Step 3: Rivet the F-00064 and the nutplate to the F-00043-1. See Figure 3.

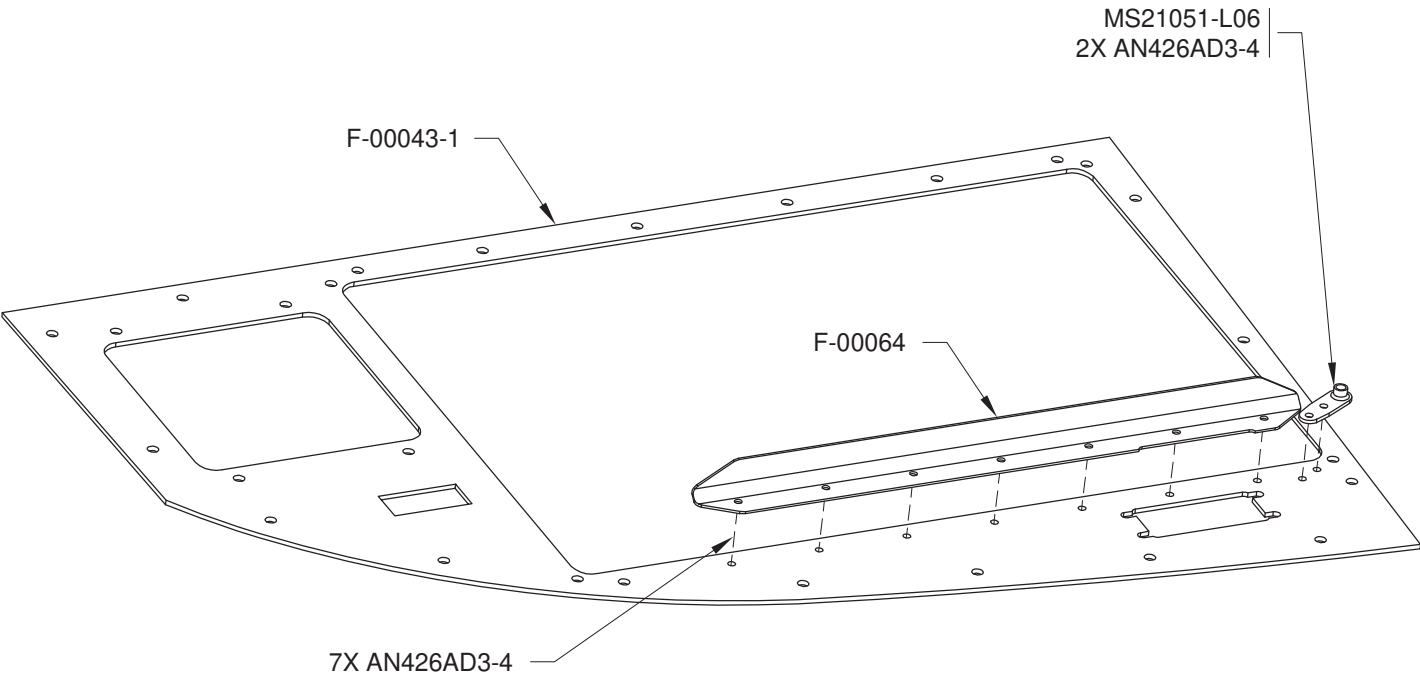


FIGURE 3: ASSEMBLING THE G3X PANEL

Step 4: Now would be a good time to prime/paint the F-00043-1, F-00044-2, and F-00144 as desired. See Figures 3, 4, and 5.

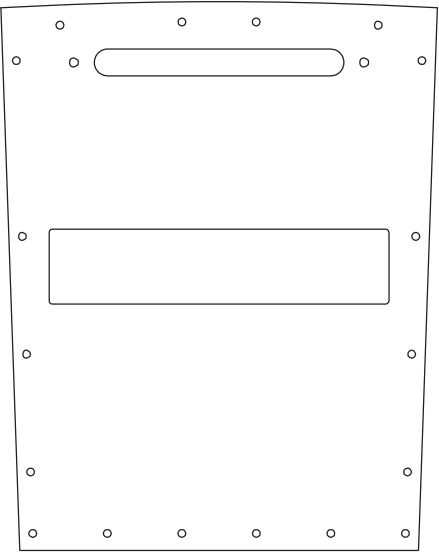


FIGURE 4: F-00044-2

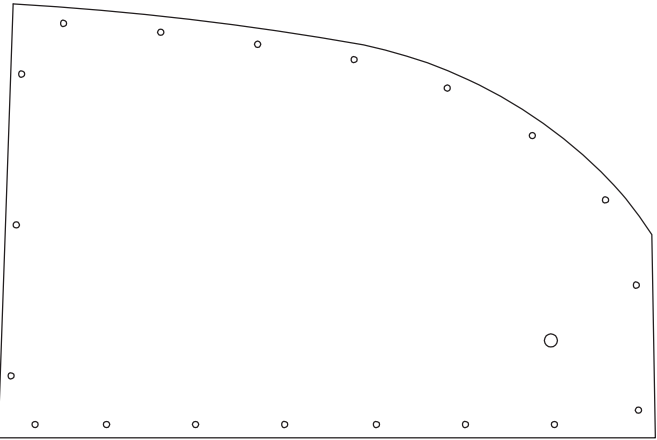
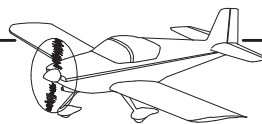


FIGURE 5: F-00144



Step 1: Attach the AV-60007 Ignition Module Assembly to the F-00043-1 with screws. See Figure 1.

Step 2: Remove the ES SW K1-AABAAAAA Switch from the WH-00134-2 RV-12iS Garmin Common Harness (VFR), then install the switch and ES-807039-1 Gasket into the F-00043-1. Ensure the switch orientation matches the detail view in Figure 1.

Step 3: Purchase, then install the internal battery in the E-04.5 Cockpit Remote. Refer to the instructions provided with the AV-E-04 ACK 406 Mhz ELT. Record the battery expiration date in the aircraft log book.

Step 4: Attach the E-04.5 Cockpit Remote to the F-00043-1 with screws and nuts as shown in Figure 1.

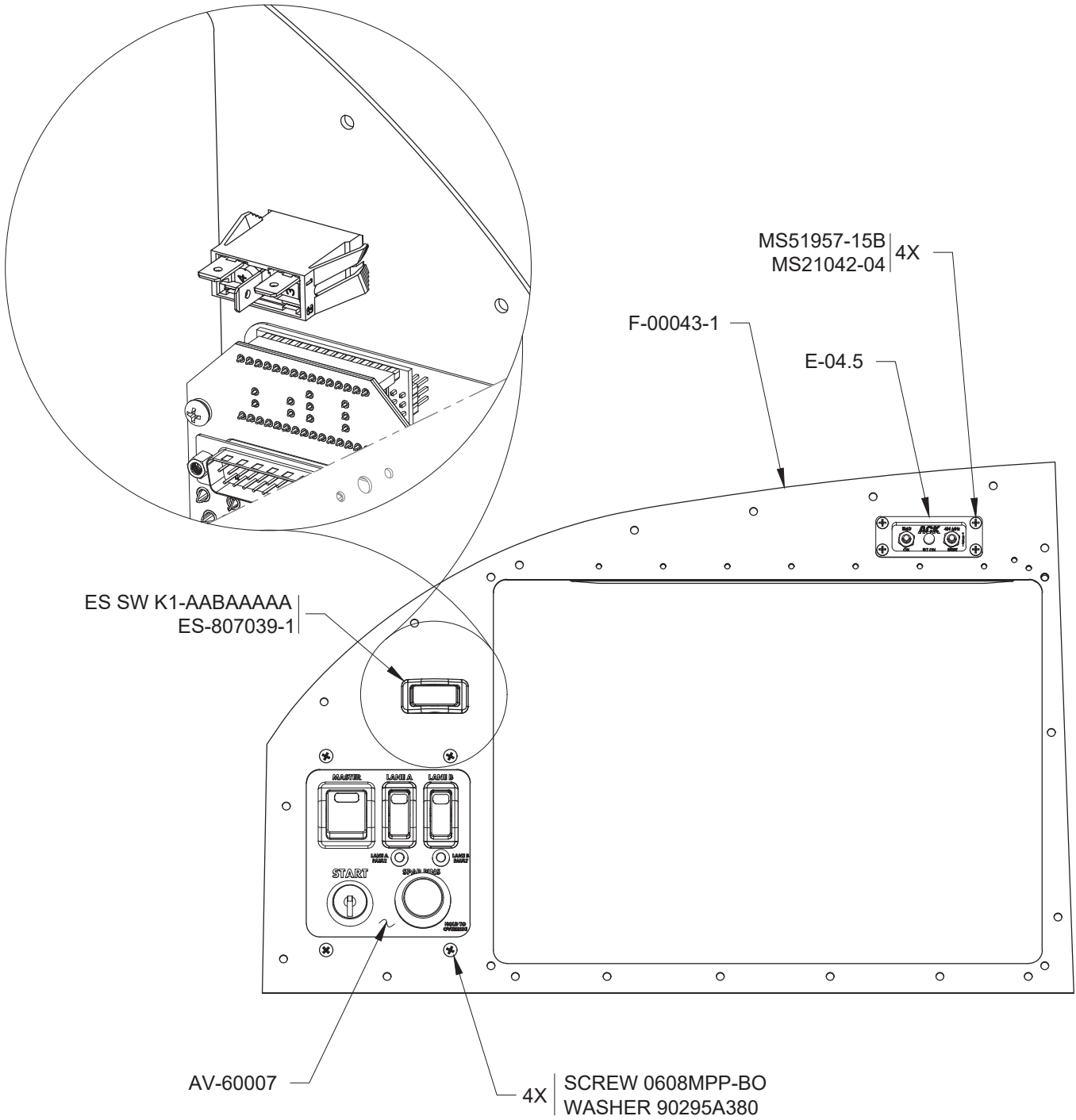
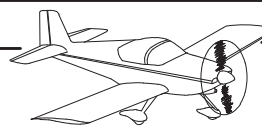


FIGURE 1: PREPARING THE F-00043-1



NOTE: Refer to Figure 1 for all of the steps on this page.

NOTE: Some of the fasteners used to install the instrument panels are not shown on this page. Replace fasteners previously used in Section 29iS/U (to install the F-12133 Instrument Panel Jig) with fasteners called out on this page.

Step 1: Install the F-00043-1, F-00044-2, and F-00144 with screws.

Step 2: Locate the co-pilot push-to-talk switch labeled "PTT" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR).

Discard the hex nut and star washer included with the switch, then attach the switch to the F-00144 as shown.

Step 3: Install the GDU 460 with screws.

Step 4: Install the GTR 200 per the GTR 200 Installation Manual.

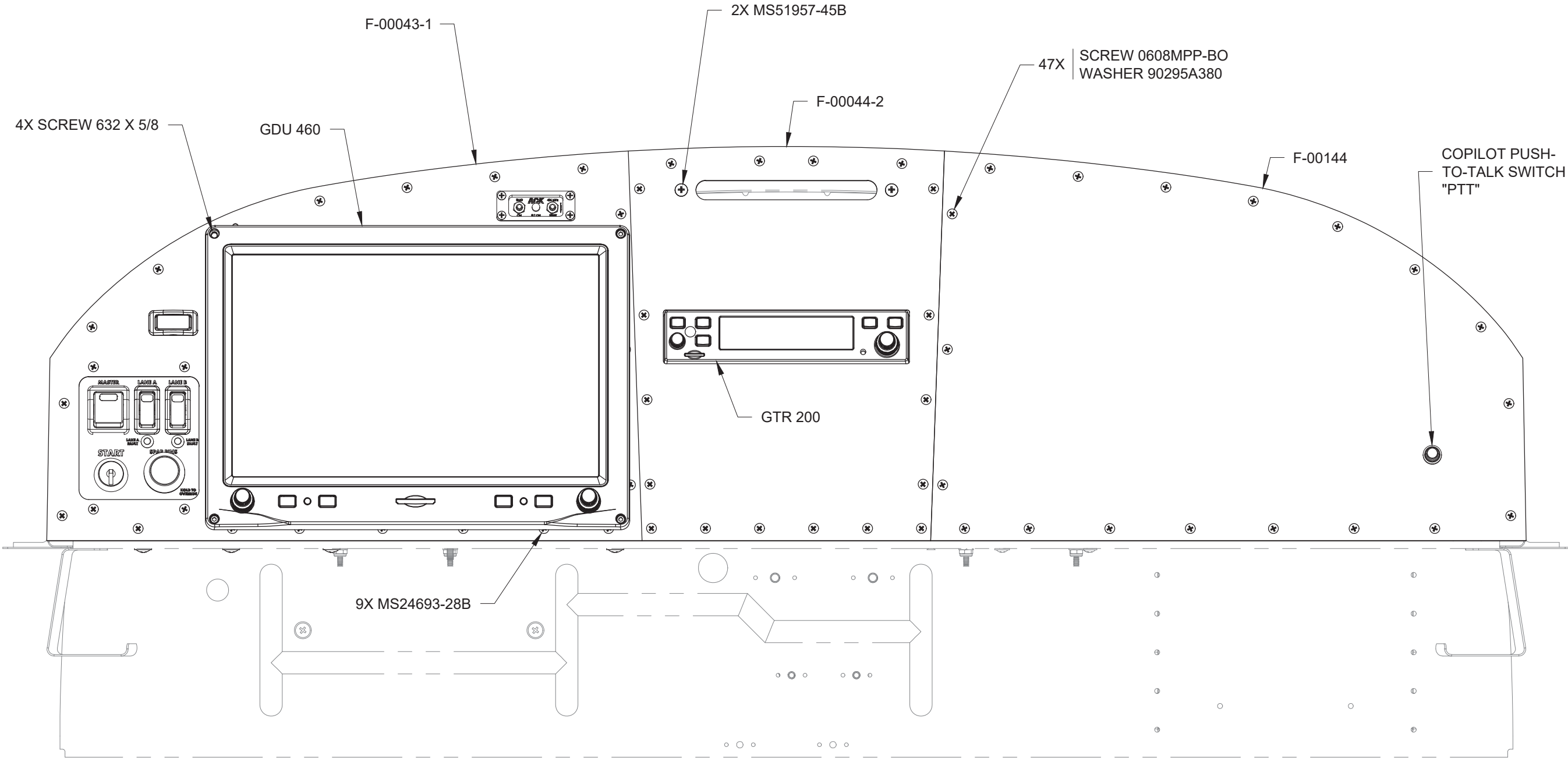
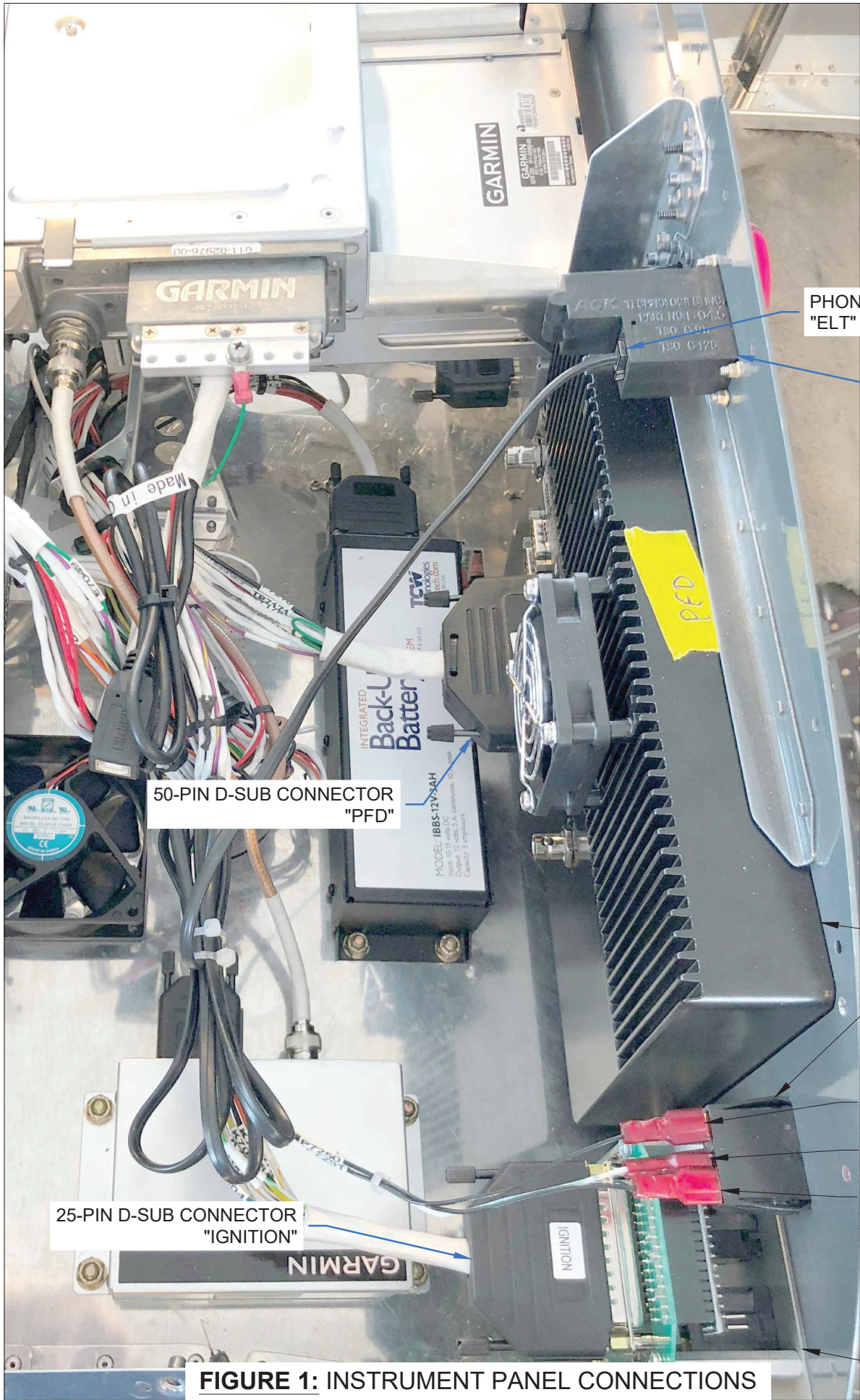
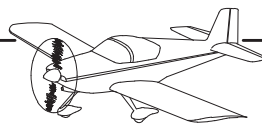


FIGURE 1: INSTALLING THE INSTRUMENT PANELS



PHONE JACK CONNECTOR
"ELT"

E-04.5

50-PIN D-SUB CONNECTOR
"PFD"

GDU 460

ES SW K1-AABAAAAA

ES-421-0108 CONNECTOR
"P7251"

ES-421-0108 CONNECTOR
"P7223"

ES-421-0108 CONNECTOR
"P7250"

25-PIN D-SUB CONNECTOR
"IGNITION"

AV-60007

FIGURE 1: INSTRUMENT PANEL CONNECTIONS

NOTE: Refer to Figure 1 for the following steps.

Step 1: Connect the 25-pin d-sub connector labeled "IGNITION" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the AV-60007 Ignition Module Assembly as shown.

Step 2: Connect the three ES-421-0108 connectors from the WH-00134-2 to the ES SW K1-AABAAAAA as shown.

Step 3: Connect the 50-pin d-sub connector labeled "PFD" from the WH-00134-2 to the GDU 460.

Step 4: Connect the phone jack connector labeled "ELT" from the WH-00134-2 to E-04.5 Cockpit Remote as shown.

Step 5: Gather the excess wire and stow with plastic tie wraps as shown.

Step 6: Complete any further instructions supplied with the AV-E-04 ACK 406 Mhz ELT.

NOTE: Refer to Figure 2 for the following steps.

Step 7: Locate the F-00214 and FF-1216 Pitot Line where they meet as shown. Mark the lines in a convenient location between the F-12103 Tunnel Brace and the F-01230-1 Tunnel Brace.

Step 8: Cut the lines near your marks, leaving a 1 in. [25.4 mm] overlap.

Step 9: Ensure the lines are free of debris, then connect the lines by installing the FLF-00023.

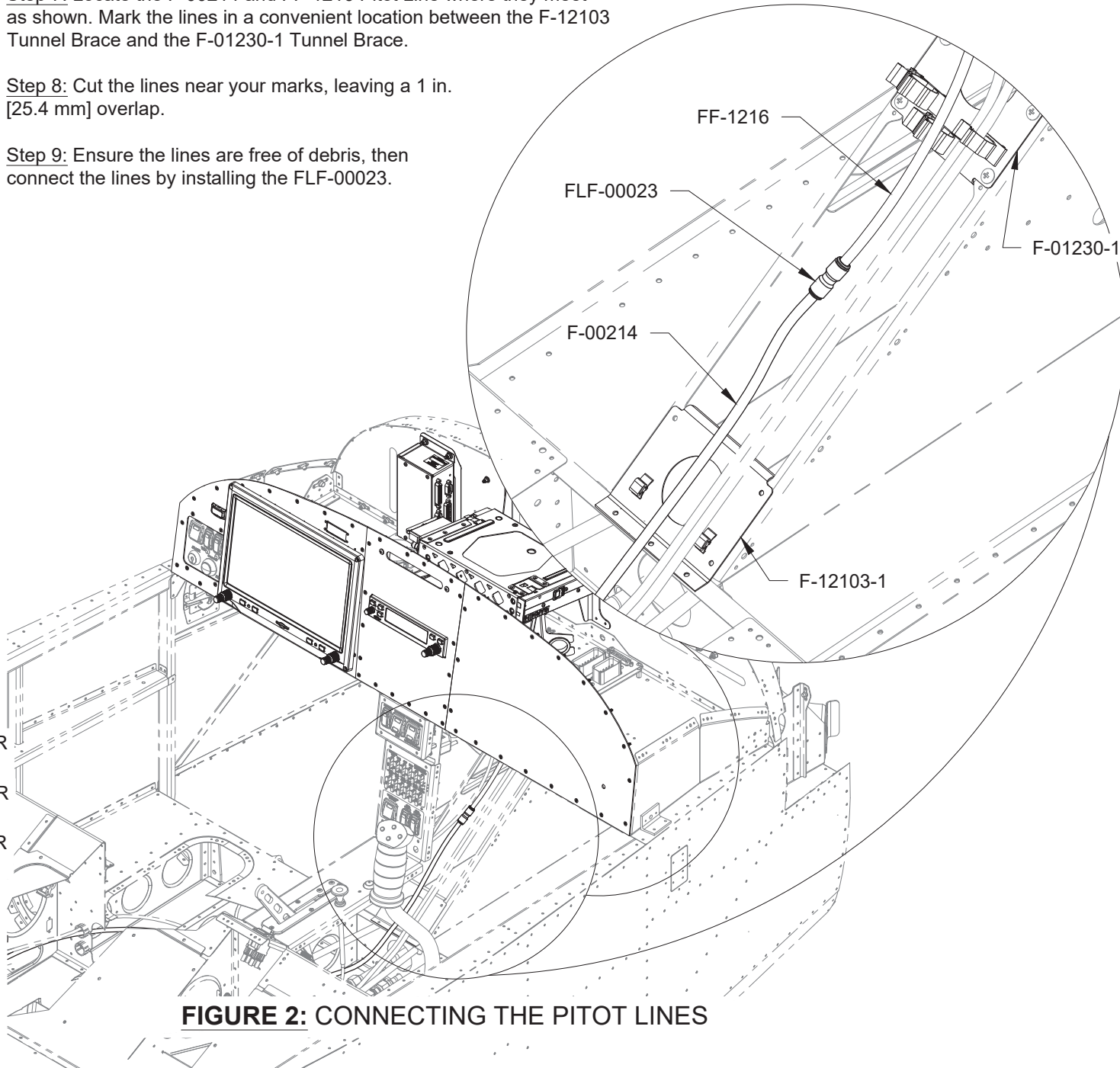
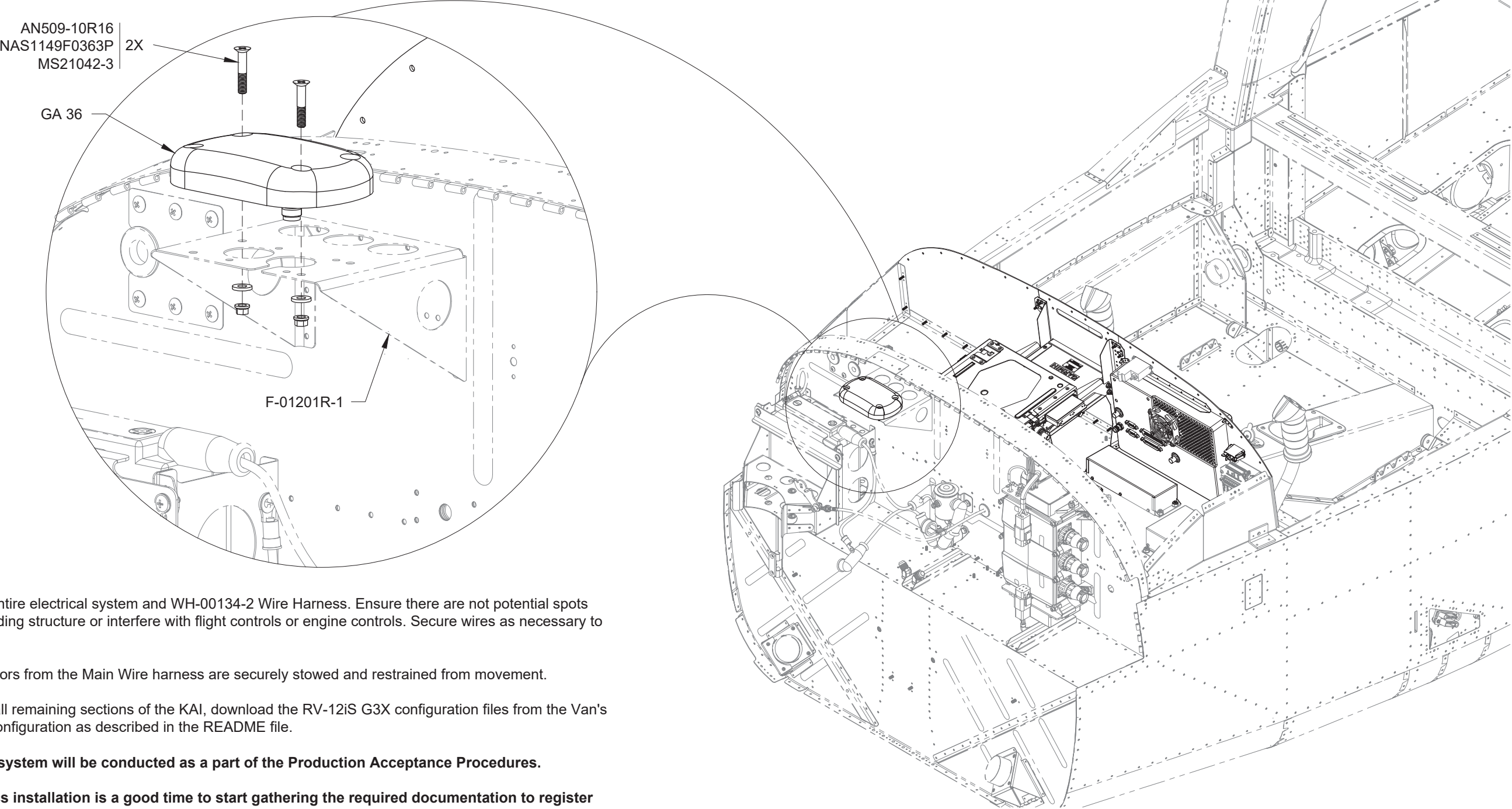


FIGURE 2: CONNECTING THE PITOT LINES



NOTE: The figures and instructions below show the GA 36 antenna. The GA 37 antenna is optional for customers who plan to use XM data with their G3X system. Installation of both antennas is identical.

- Step 1: Install the GA 36 on the F-01201R-1 Antenna Shelf with the hardware called out in Figure 1.
- Step 2: Connect the TNC connector labeled "GPS" from the WH-00134-2 RV-12iS Garmin Common Harness (VFR) to the GA 36.
- Step 3: Reinstall the Upper Forward Fuselage Skin Assembly. See Section 29iS/U.



Step 4: Make a final check of the entire electrical system and WH-00134-2 Wire Harness. Ensure there are not potential spots where wires may chafe on surrounding structure or interfere with flight controls or engine controls. Secure wires as necessary to prevent chafing or interference.

Ensure all unused optional connectors from the Main Wire harness are securely stowed and restrained from movement.

Step 5: After you have completed all remaining sections of the KAI, download the RV-12iS G3X configuration files from the Van's website and update the software configuration as described in the README file.

NOTE: Functional checks of the system will be conducted as a part of the Production Acceptance Procedures.

NOTE: Completion of the avionics installation is a good time to start gathering the required documentation to register your RV-12iS. Complete and return the Documentation Request Form included with your avionics kit to order your RV-12iS Documentation Kit containing the necessary placards, manuals, and required FAA forms.

END OF SECTION

FIGURE 1: INSTALLING THE GA 36