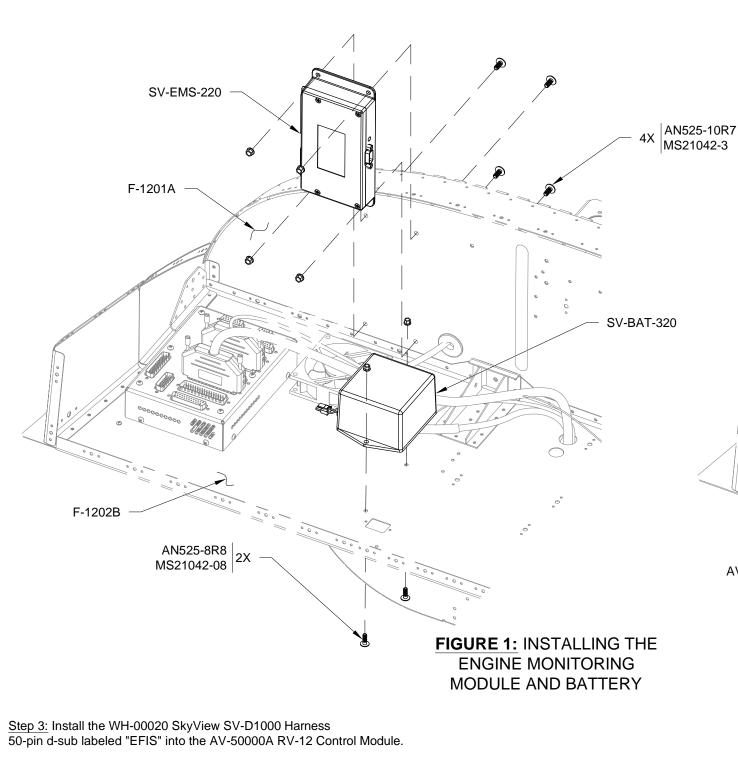


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Step 1: Install the SV-EMS-220 Engine Monitoring Module to the F-1201A Firewall Upper as shown in Figure 1.

Step 2: Install the SV-BAT-320 Backup Battery to the F-1202B Panel Base as shown in Figure 1.



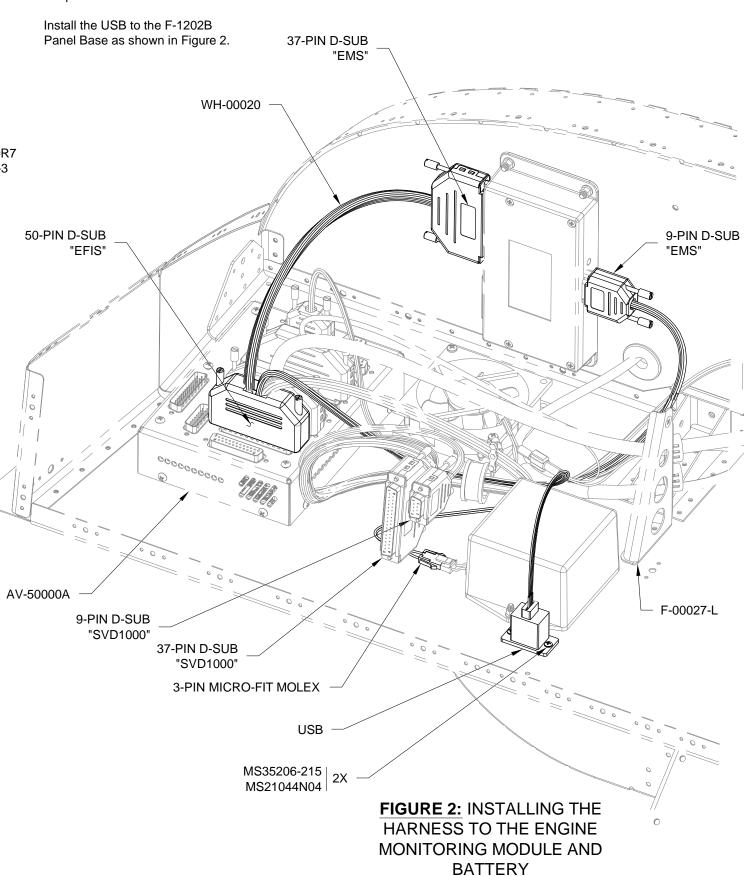
Install the 37-pin d-sub labeled "EMS" into the SV-EMS-220 Engine Monitoring Module.

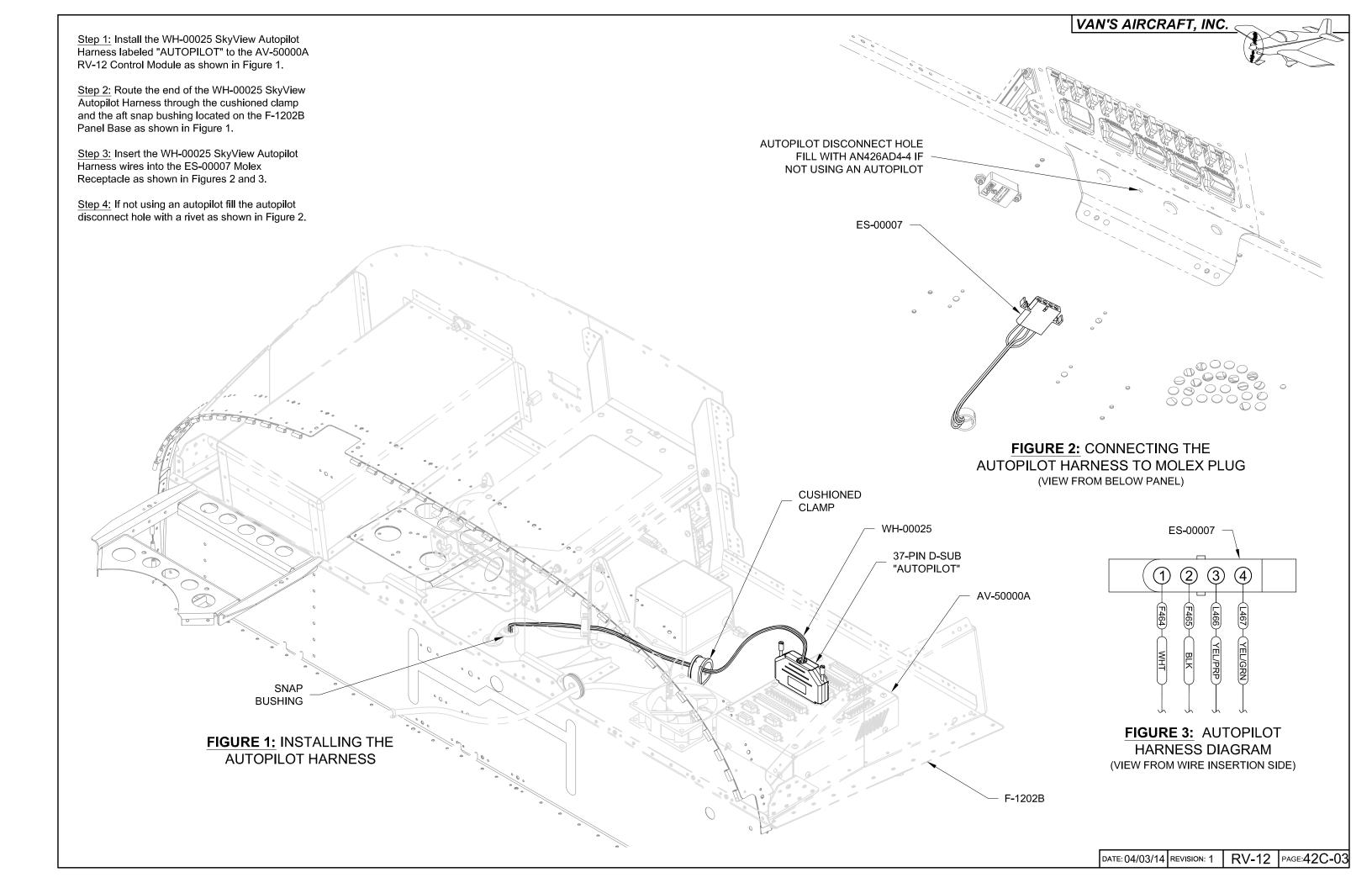
Route the remaining harness wires through the cushioned clamp near the left ES CPU FAN. See Figure 2.

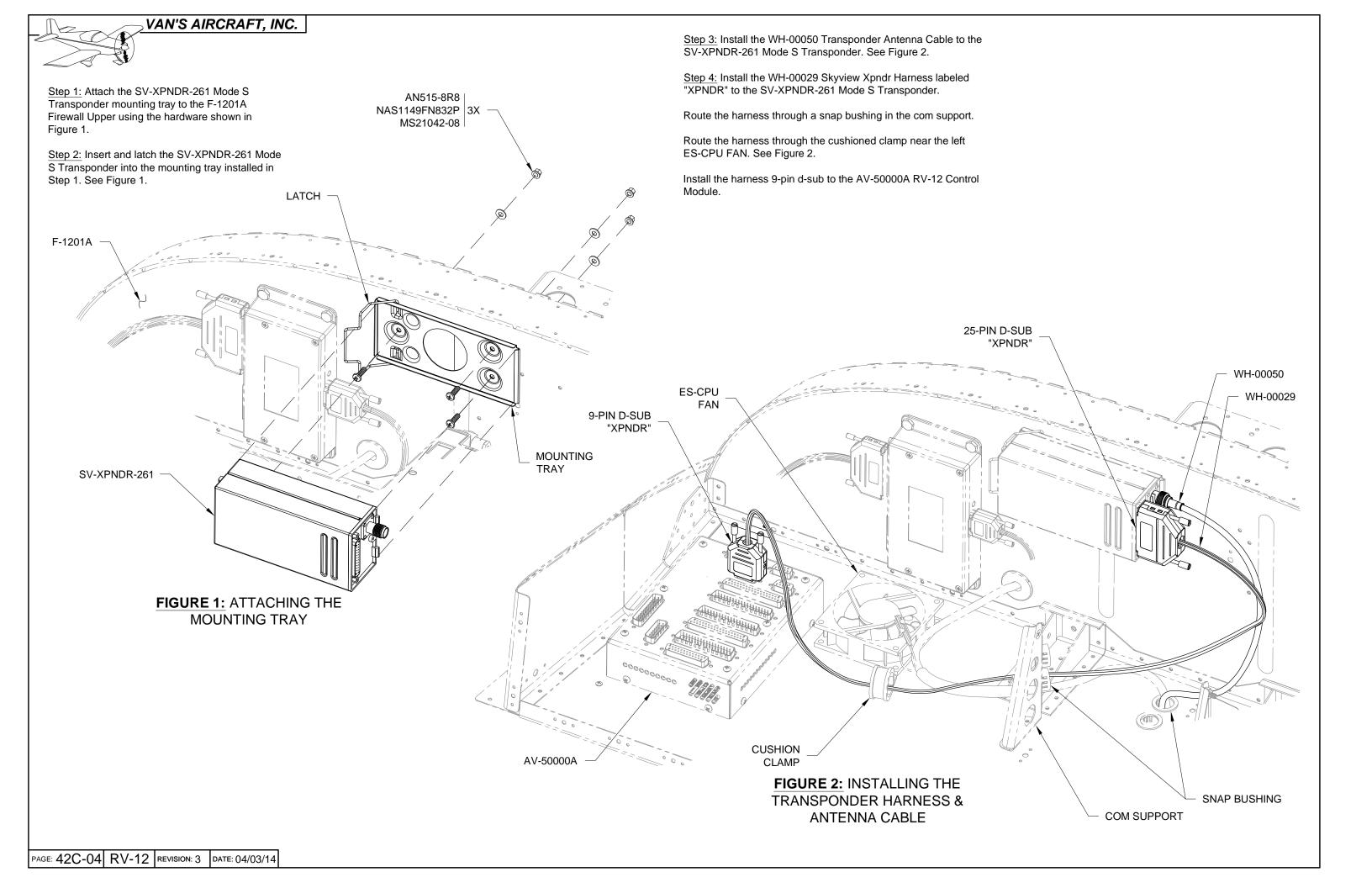
Install the 9-pin d-sub labeled "EMS" into the engine monitoring module.

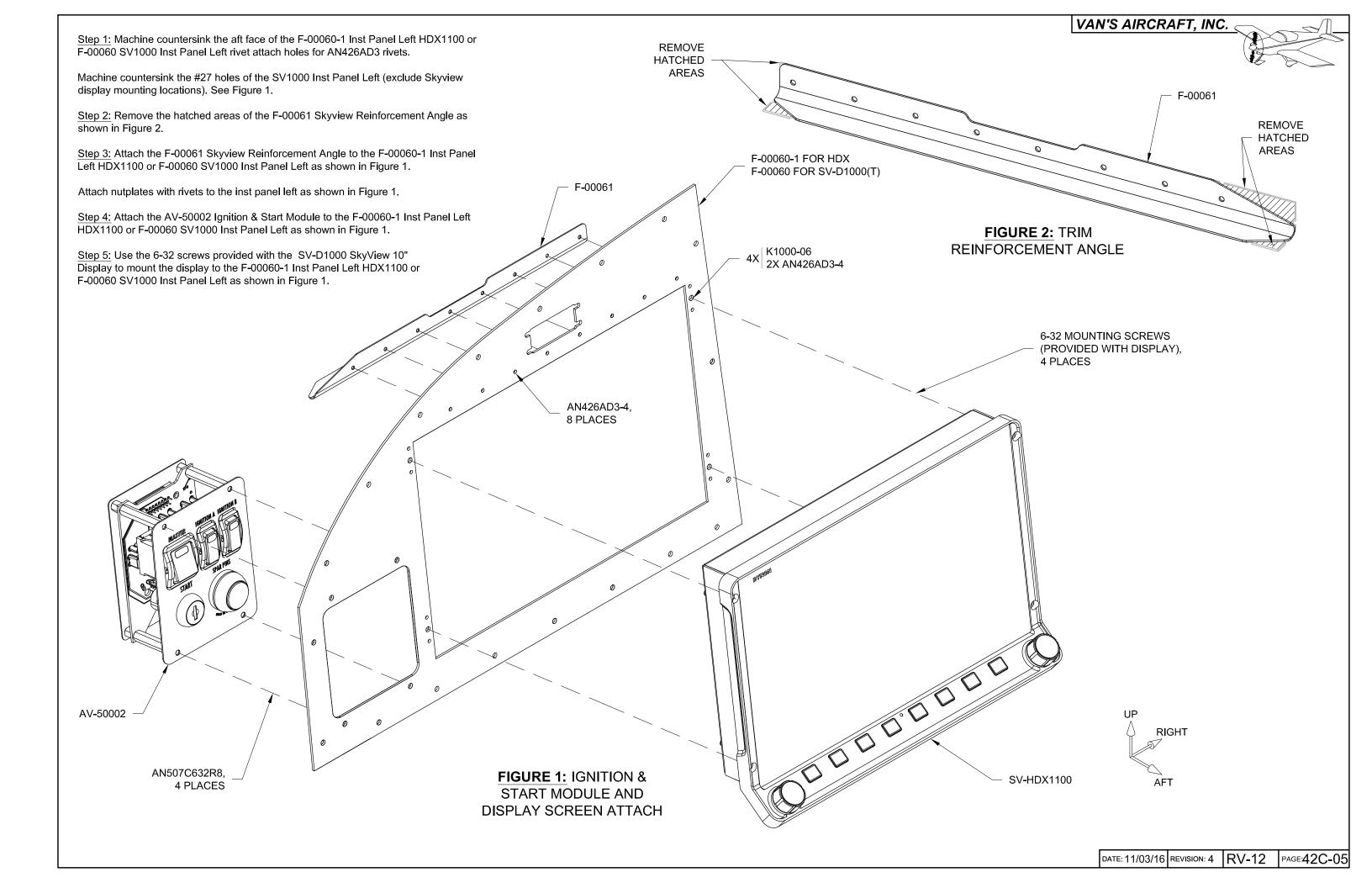
Step 3 (continued): Install the 3-pin Micro-Fit Molex connector from the harness into the matching connector on the SV-BAT-320 Backup Battery.

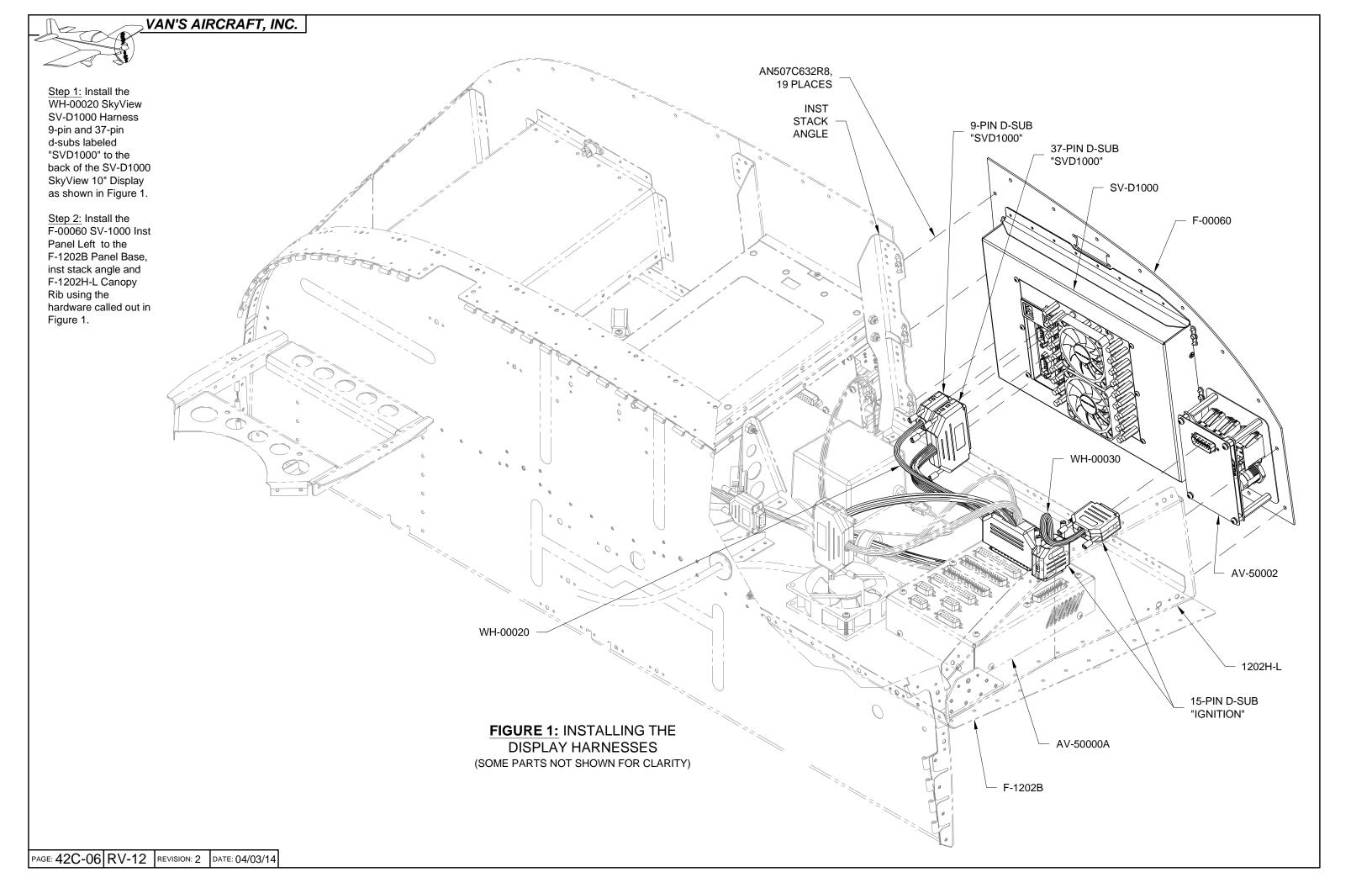
Arrange the harness so that the 37-pin d-sub labeled "SVD1000" and 9-pin d-sub labeled "SVD1000" lay about where the main display will be installed. This will create a service loop for the display and allow it to be removed from the panel without removing the panel itself.











NOTE: For the remainder of this section, the WH-00034 SkyView GPS-250 Harness will be referred to as the SV-GPS-250 and the WH-00129 SkyView GPS-2020 Harness will be referred to as the SV-GPS-2020.

Step 1: Final-Drill #19 the holes in the F-1201Z Retaining Plate as indicated in Figure 1.

Step 2: Dimple the F-1201Z Retaining Plate for the heads of the screws that will attach the SV-GPS-250 or SV-GPS-2020. See Figure 1 to determine dimple direction.

Step 3: Install the SV-GPS-250 or SV-GPS-2020 onto the F-1201Z Retaining Plate using the hardware called out in Figure 1.

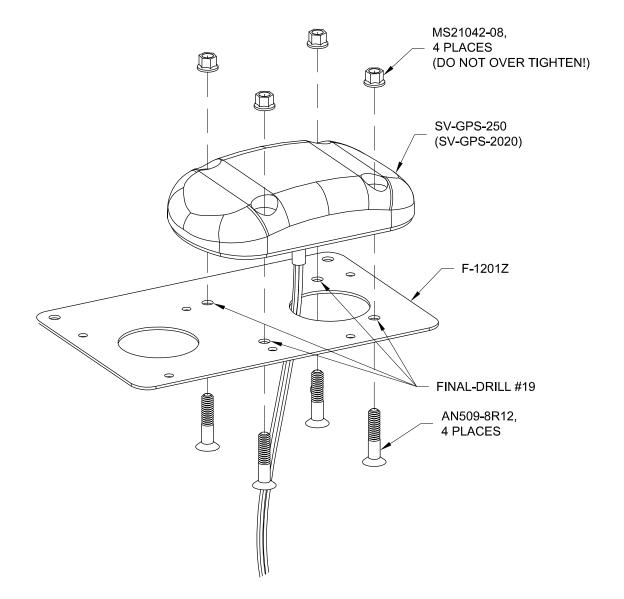


FIGURE 1: INSTALLING THE GPS RECEIVER

VAN'S AIRCRAFT, INC. Step 4: Attach the F-1201Z Retaining Plate to the F-1201R Antenna Shelf using the hardware called out in Figure 2. Modify the antenna shelf as required if there is any interference with the antenna. Step 5: Install two cushioned clamps together and around a tube of the WD-1221 Engine Mount Standoff as shown in Figure 2. Step 6: Route the SV-GPS-250 or SV-GPS-2020 wires through the cushioned clamp installed in Step 5 and aft through the rubber grommet for wire penetrations in the F-1201A Firewall Upper. F-1201R F-1201A 2X AN526C632R8 FIREWALL WIRE PENETRATION LOCATION 0 0 F-1201Z MS21919DG8 AN3-3A MS21042-3 MS21919DG8

FIGURE 2: ROUTING GPS WIRES

WD-1221

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Step 1: Insert the wires coming from the SV-GPS-250 or SV-GPS-2020 into a ES-00140 9-Pin Male D-Sub at the positions shown in Figure 1.

<u>Step 2:</u> Route the wires from the SV-GPS-250 or SV-GPS-2020 through the cushioned clamp near the left ES CPU FAN.

Step 3: Add a ES 9 PIN BACKSHELL and WH-00034L label to the ES-00140 9-Pin Male D-Sub. See Section 5W Electrical Wiring Notes, Backshell Assembly.

Install the SV-GPS-250 or SV-GPS-2020 Harness 9-pin d-sub labeled "GPS" on the AV-50000A RV-12 Control Module as shown in Figure 2.

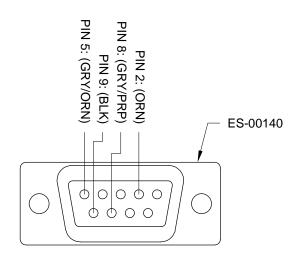
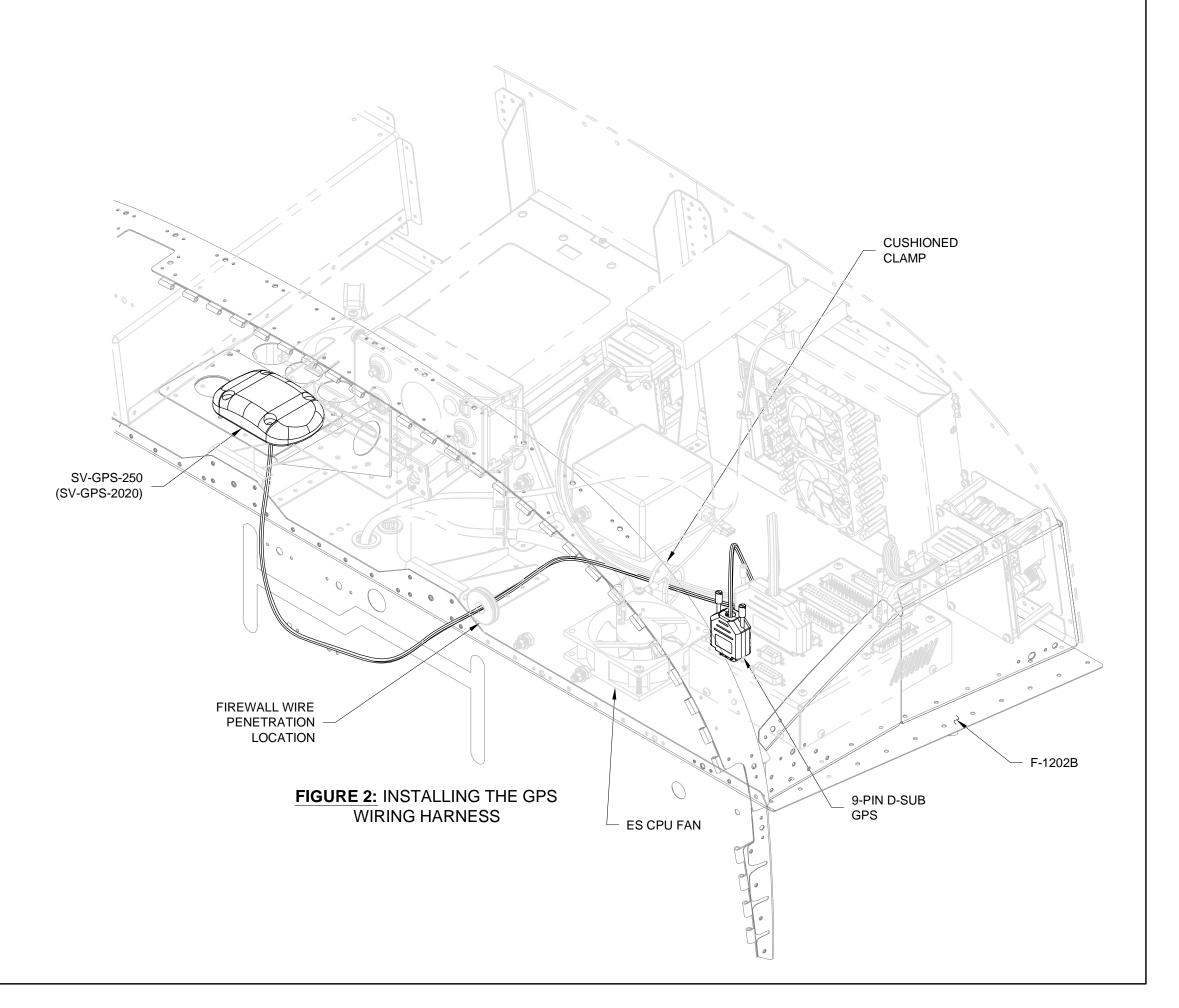


FIGURE 1: INSERTING WIRES
INTO THE GPS D-SUB
(REAR VIEW / PIN INSERTION SIDE)



<u>Step 1:</u> Counting from the aft most rivet, remove the tenth rivet from the F-1283C J-Stiffener. See Figure 1.

Cleco the F-00062 ADAHRS Stiffener to the J-stiffener where the rivet was just removed.

Step 2: Align the F-00062 ADAHRS Stiffener perpendicular to the F-1283C J-Stiffener.

Step 3: Match-Drill #30 the holes in the F-00062 ADAHRS Stiffener into the F-1278 Top Skin as shown in Figure 1. Deburr all of the holes.

NOTE: For aesthetic purposes, blind rivet heads can be painted prior to installation to match the color of the top skin:

- (1) paint the rivet head
- (2) allow the paint to dry
- (3) apply protective tape to the rivet head
- (4) install the rivet
- (5) remove the protective tape.

Step 4: Blind rivet the F-00062 ADAHRS Stiffener to the F-1283C J-Stiffener and F-1278 Top Skin from outside the fuselage as shown in Figure 1.

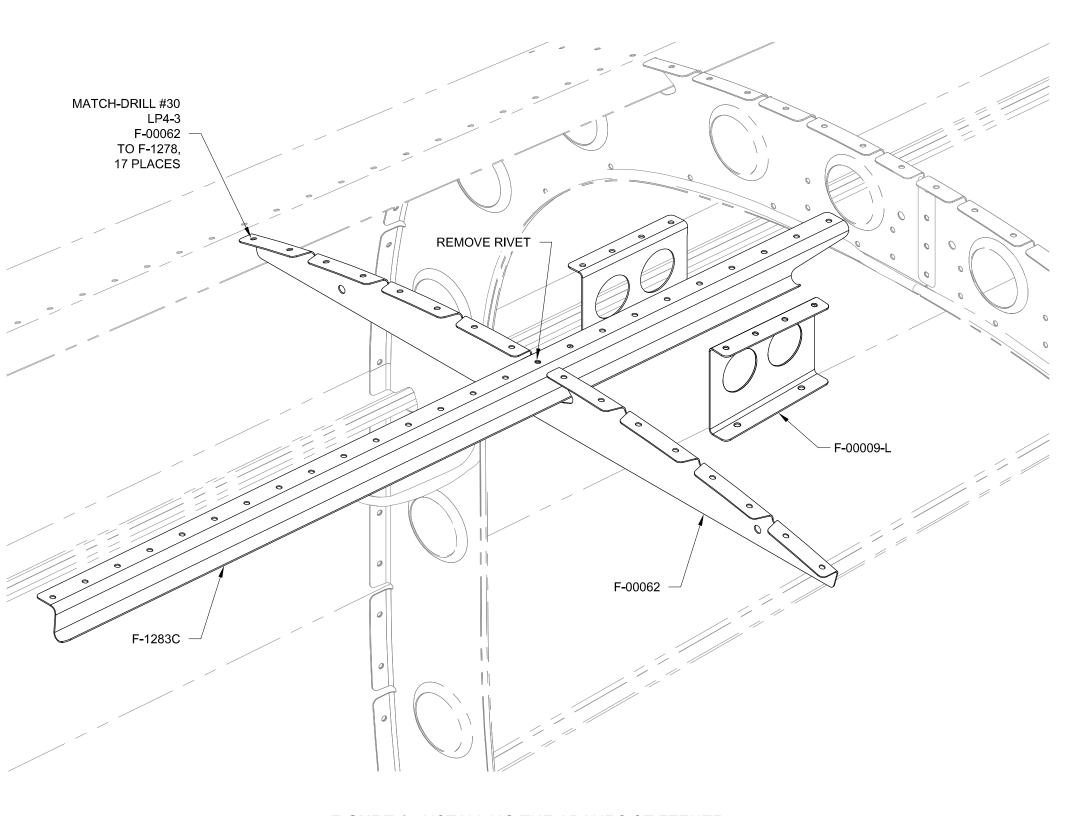
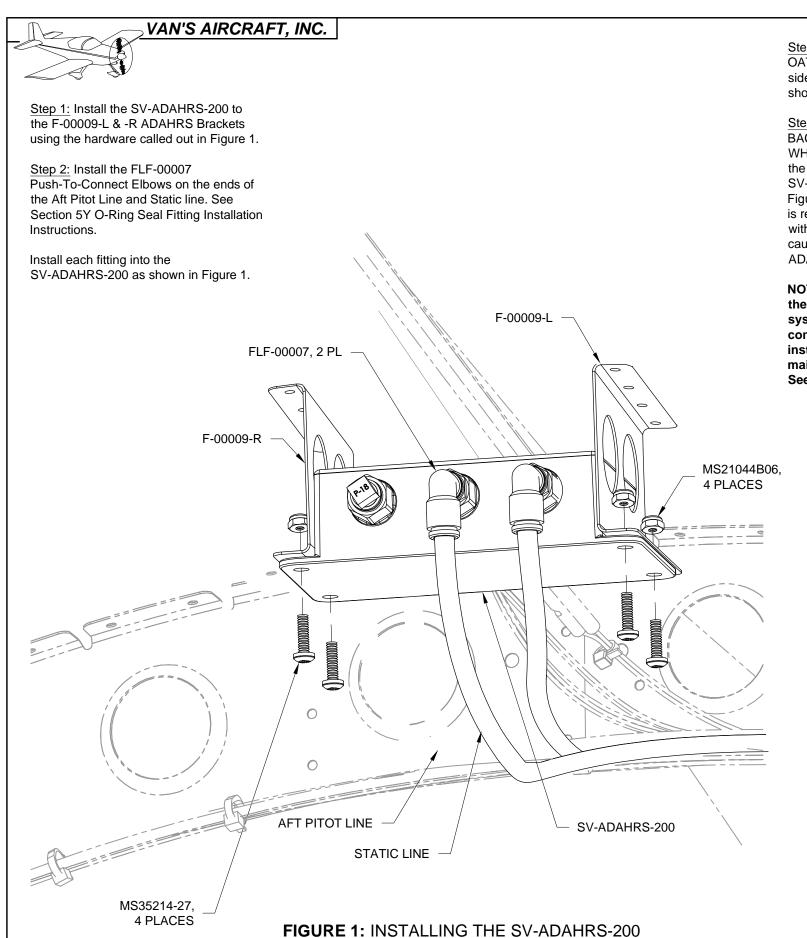


FIGURE 1: INSTALLING THE ADAHRS STIFFENER

VAN'S AIRCRAFT, INC.



(VIEW FROM INSIDE THE AIRCRAFT)

Step 3: Install the WH-00060 OAT Wiring Harness to the aft side of the SV-ADAHRS-200 as shown in Figure 3.

Step 4: Install the ES 9 PIN BACKSHELL 2 attached to the WH-00046 Fuselage Harness to the aft side of the SV-ADAHRS-200 as shown in Figure 3. This type of backshell is required. Other backshells with long thumb screws will cause interference with the ADAHRS.

NOTE: Final setup of the SkyView Avionics system will be completed after installation of the main battery. See Section 45.

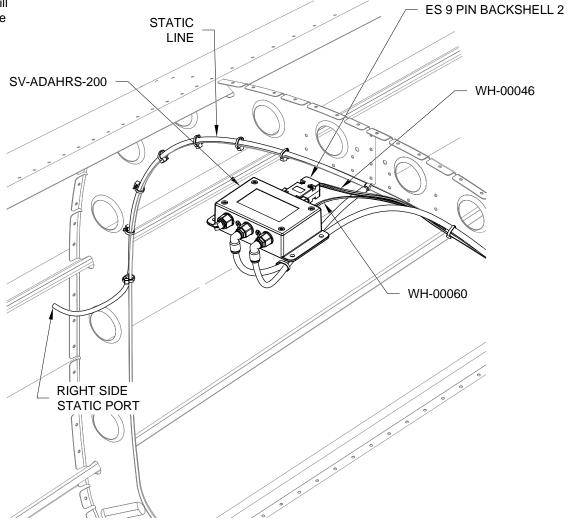


FIGURE 3: INSTALLING THE OAT & FUSELAGE HARNESS



Step 1: Remove and discard the F-1206E Baggage Cover.

Step 2: Fill the specified holes in the F-00081 ADAHRS Baggage Floor with rivets. See Figure 1.

Step 3: Dimple the F-00083 Baggage Floor at the locations shown in Figure 1.

<u>Step 4:</u> Install the F-00081 ADAHRS Baggage Floor and the F-00083 Baggage Floor using hardware supplied in the Finish Kit. See Figure 1.

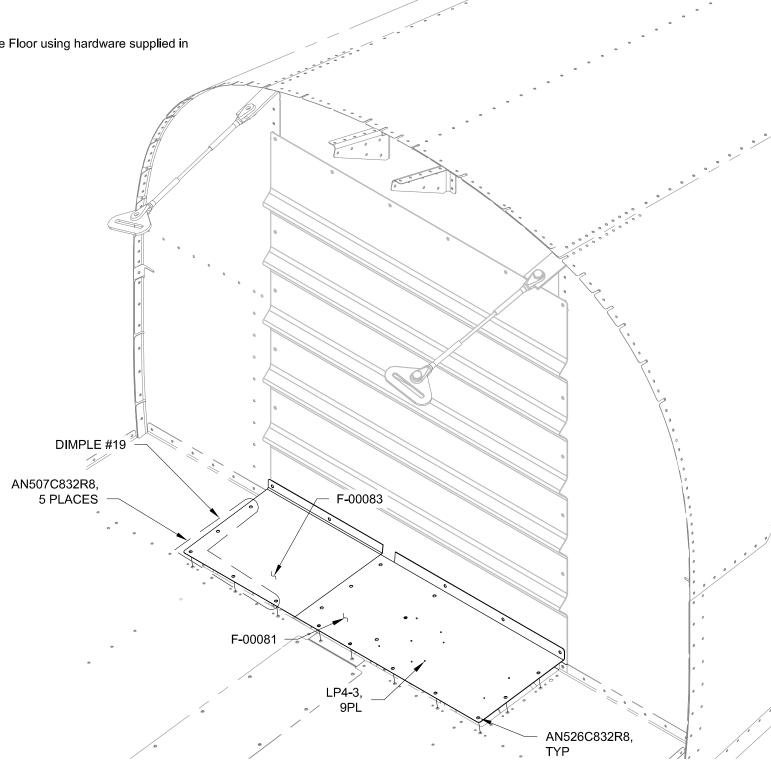


FIGURE 1: REPLACING THE BAGGAGE COVER

