



**Step 1:** Route the WH-RV12-OPTIONAL harness over the rudder pedals, through the fuel flow cushioned clamp and through the snap bushings in the F-1202F and F-1203A Bulkheads.

**Step 2:** From the WH-RV12-OPTIONAL harness separate out and route the WH-L72 (YEL/RED) wire through the snap bushings in the F-1215 Seat Ribs on the left side of the aircraft. Separate out the WH-L73 (YEL) and WH-L88 (YEL/BLU) wires and route them through the snap bushings in the seat ribs on the right side of the aircraft. See Figure 1.

**Step 3:** Make and label the WH-B184 (WHT) Nav/Strobe Power Wire by cutting 53 inches of 18 gauge wire and stripping each end.

**Step 4:** On the left side of the aircraft crimp both the WH-B184 (WHT) and WH-L72 (YEL/RED) wires together in the same female spade connector. Secure this connector to the left F-1270B ASSY as shown in Figure 1.

**Step 5:** Route the WH-B184 (WHT) Nav/Strobe Power Wire through all the F-1215 Seat Ribs to the right side of the aircraft and crimp on a female spade connector. Secure the spade connector to the terminal shown in Figure 1 on the F-1270B ASSY on the right side of the aircraft. Adjust the wire so that there is an equal amount of slack on each end.

**Step 6:** Separate from the WH-RV12-OPTIONAL harness the group of seven twisted wires, strip the ends, then route them through the snap bushings in all but the most outboard F-1215 Seat Rib on the left side of the aircraft. Route the seven twisted wires through the rectangular opening in the second to most outboard seat rib on the left side of the aircraft as shown in Figure 1.

**Step 7:** Find the supplied WIRE AUTOPILOT SERVO seven stranded wire in the kit and trim it to 85 inches to create the WH-B170 Autopilot Harness. Strip the wires on one end.

**Step 8:** Matching colors, crimp together in pairs in the same **female** spade connectors the YEL, BLU, WHT and BLK wires from the seven twisted wires in the WH-RV12-OPTIONAL harness and the seven twisted wires in WH-B170 Autopilot Harness.

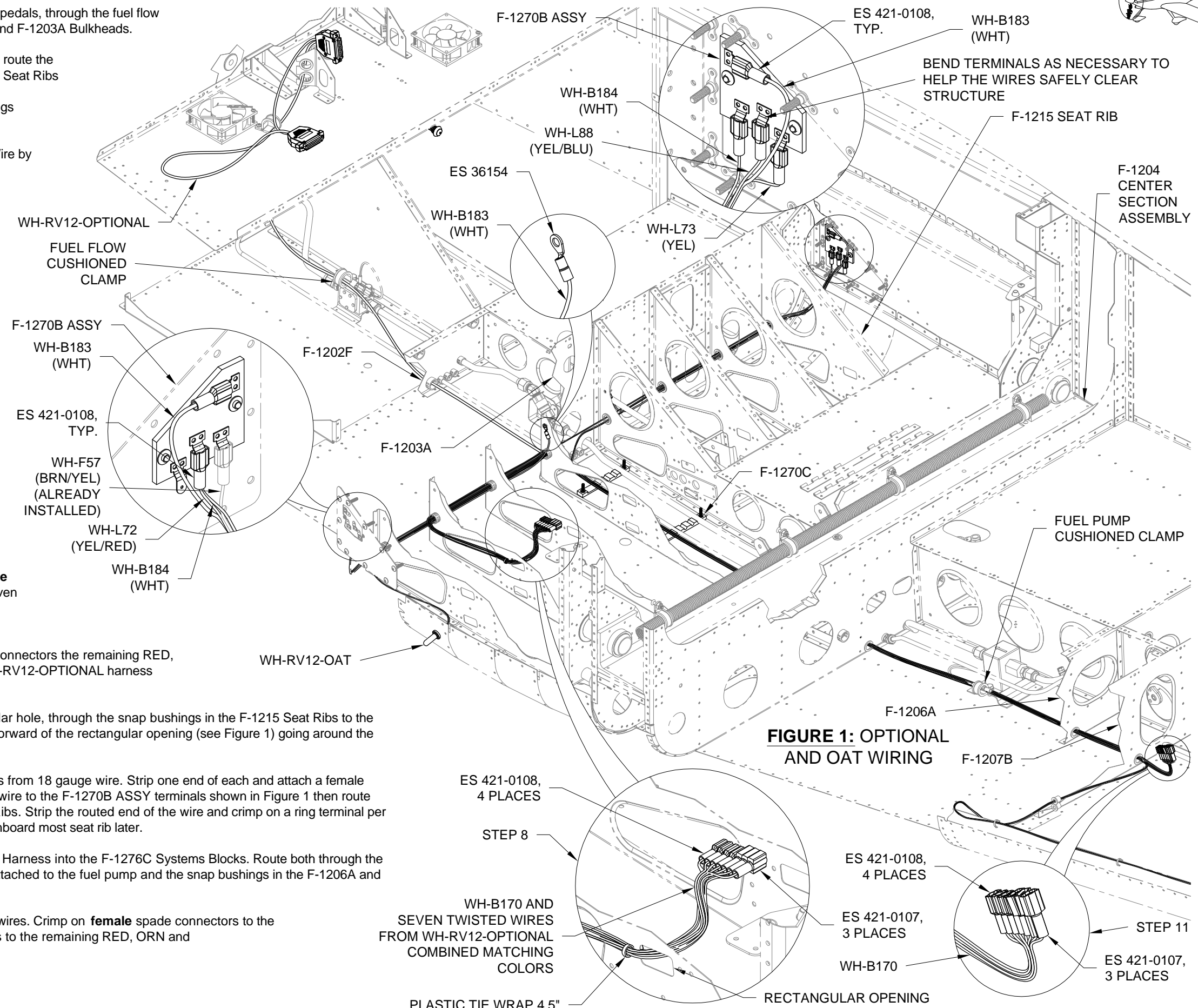
Matching colors, crimp together in pairs in the same **male** spade connectors the remaining RED, ORN and WHT/BLK wires from the seven twisted wires in the WH-RV12-OPTIONAL harness and the seven twisted wires in WH-B170 Autopilot Harness.

Route the WH-B170 Autopilot Harness back through the rectangular hole, through the snap bushings in the F-1215 Seat Ribs to the center of the aircraft. Add a Plastic Tie Wrap 4.5" in the hole just forward of the rectangular opening (see Figure 1) going around the wires and back through the same hole into itself.

**Step 9:** Create and label two WH-B183 (WHT) Wing Ground Wires from 18 gauge wire. Strip one end of each and attach a female spade connector per the callouts in Figure 1. Attach each ground wire to the F-1270B ASSY terminals shown in Figure 1 then route the wires inboard through the snap bushings in the F-1215 Seat Ribs. Strip the routed end of the wire and crimp on a ring terminal per the callouts in Figure 1. This ring terminal will be attached to the inboard most seat rib later.

**Step 10:** Lay the WH-RV12-OAT harness and WH-B170 Autopilot Harness into the F-1276C Systems Blocks. Route both through the F-1204 Center Section Assembly, through the cushioned clamp attached to the fuel pump and the snap bushings in the F-1206A and F-1207B Bulkheads.

**Step 11:** Strip the ends of the seven WH-B170 Autopilot Harness wires. Crimp on **female** spade connectors to the YEL, BLU, WHT and BLK wires. Crimp on **male** spade connectors to the remaining RED, ORN and WHT/BLK wires. See Figure 1.



**FIGURE 1: OPTIONAL AND OAT WIRING**