

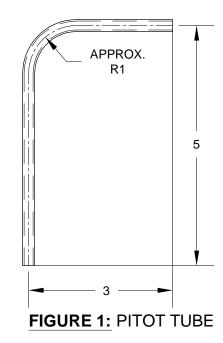
VAN'S AIRCRAFT, INC.



NOTE: A stainless steel pitot tube with cover is available from the VAN'S ACCESSORIES CATALOG part number VENT P-100.

NOTE: The pitot installation is for the left wing only.

Step 1: Make the PITOT TUBE from ATO-032 X 1/4. Start with a piece of tubing at least 8 inches long, bend the tubing and then trim to match the dimensions shown in Figure 1. See Section 5P for more information on aluminum tubing. Do **not** flare the end yet!



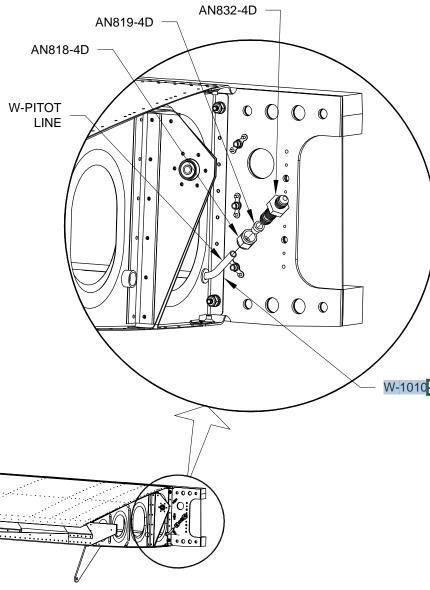
Step 2: Enlarge the hole in the bottom aft row of rivets left open in Section 17 for the PITOT TUBE in the W-1001 Leading Edge Skin and main spar assembly to 7/16 diameter.

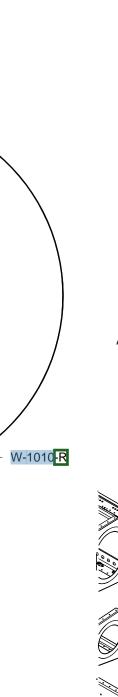
Step 3: Install the bulkhead fitting and retaining nut onto the main spar and leading edge assembly (where the PITOT TUBE attaches), see Figure 2.

Step 4: Make the W-PITOT LINE Pitot Line from ATO-032 X 1/4. Start with a piece of tubing at least 92 1/2 inches long. Insert the pitot line through snap bushings installed in the forward tooling hole of the inboard wing ribs. Slide the nut and sleeve onto the inboard end of the pitot line as shown in the exploded view in Figure 2. Check that the last sentence has been completed, lest you flare the pitot line to soon. Flare the end of the pitot line. Attach the inboard bulkhead fitting to the pitot line as shown in Figure 2.

Step 5: Bend and trim the W-PITOT LINE Pitot Line to connect with the bulkhead fitting used to attach the PITOT TUBE. Insert the nut and sleeve onto the pitot line. Flare the end of the pitot line. Connect the pitot line to the outboard bulkhead fitting on the main spar assembly.

Step 6: Insert the nut and sleeve onto the long leg of the PITOT TUBE as shown in Figure 3. Flare the end of the long leg of the pitot tube. The pitot tube can be installed now, but since it can easily be damaged during storage of the wings it is safest to delay the installation until the final assembly of the aircraft.





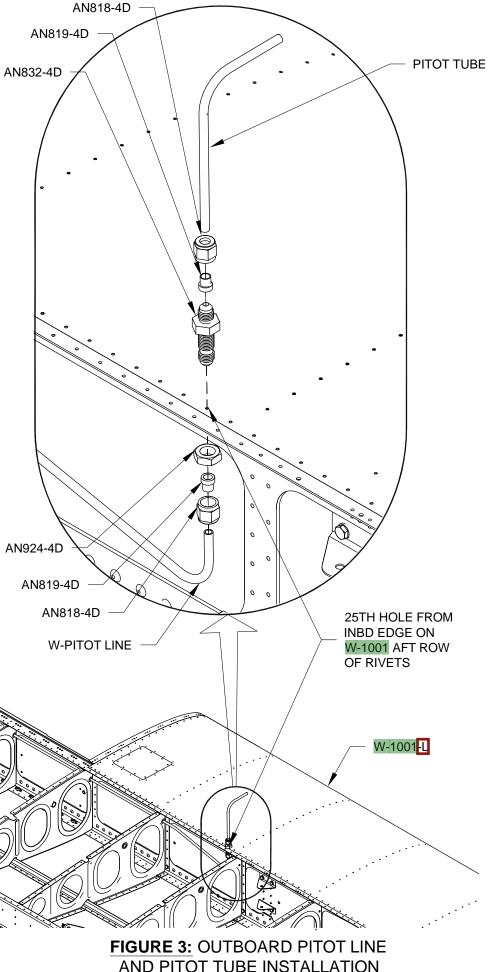


FIGURE 2: INBOARD PITOT LINE INSTALLATION



Step 1: To prevent the WH-F1001 Wires from interfering or rubbing on the W-1017A Stick To Bellcrank Pushrod wrap the wire around the pitot tube along the entire length of the rib bay as shown in Figure 1. Cross over from the pitot tube to the main wiring run snap bushing and to the root end of the wing assembly.

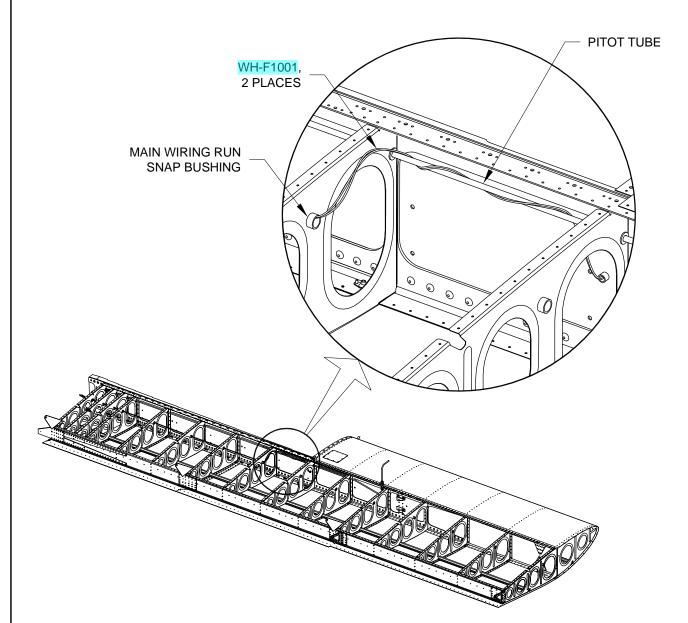


FIGURE 1: ROUTING WIRES INTO THE MAIN WING WIRE RUN

Step 2: Attach a set of spade connectors to the end of both WH-F1001 Wires as shown in Figure 2.

Step 3: Reinstall the fuel tank to the wing per Section 18.

