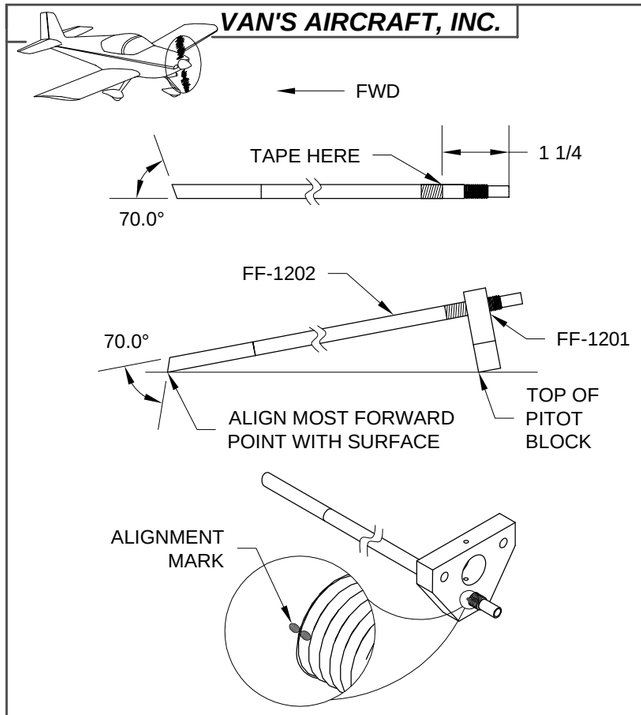

FIGURE 1: DRILLING THE PITOT TUBE

Step 1: Mark the FF-1202 Pitot Tube by wrapping with masking tape 1 1/4 inches from the aft end as shown in Figure 1. Insert the pitot tube into the FF-1201 Pitot Block up to the edge of the tape. The threaded portion of the pitot block is aft.

Flip the pitot tube and pitot block over on a flat surface. Align the most forward point of the pitot tube with the top of the pitot block and make a small scratch to use as an alignment mark on the pitot tube and pitot block as shown in Figure 1.

NOTE: The following steps are designed to create a dimple in the FF-1202 Pitot Tube without drilling through the inner wall of the tube. If the tube is breached, see corrective measures detailed in Step 6.

Step 2: Install a #36 drill bit into the hole in the top of the FF-1201 Pitot Block. Press the bit down until it contacts the FF-1202 Pitot Tube.

Slip enough washers over the bit to cover the flutes on the drill bit. At least one of the washers should be a NAS1149F0332P.

Slide the drill chuck over the drill bit and press until the drill chuck is firmly seated against the washers. Tighten the drill chuck.

Step 3: Remove the drill and bit from the FF-1201 Pitot Block. Remove one of the NAS1149F0332P thin washers from the bit. Insert the drill bit with the remaining washers into the hole in the pitot block and drill #36 the FF-1202 Pitot Tube.

Step 4: Remove the FF-1202 Pitot Tube from the FF-1201 Pitot Block and remove the masking tape from the pitot tube. Carefully drill #29 the pilot dimple created in Step 3. Check progress frequently by sighting down the center of the pitot tube. Stop drilling when a small bump appears on the inside wall.

NOTE: The FF-1201 Pitot Block may be trimmed if it interferes with the FF-1207 Cooling Shroud.

Step 5: Mount the FF-1201 Pitot Block with the hardware called out in Figure 2. The pitot block should be mounted with the threaded half of the pitot block aft. Turn the cap screws until they touch the surface of the washer, turn an additional 1/4 turn and stop. Safety wire the cap screws together as shown in Figure 3.

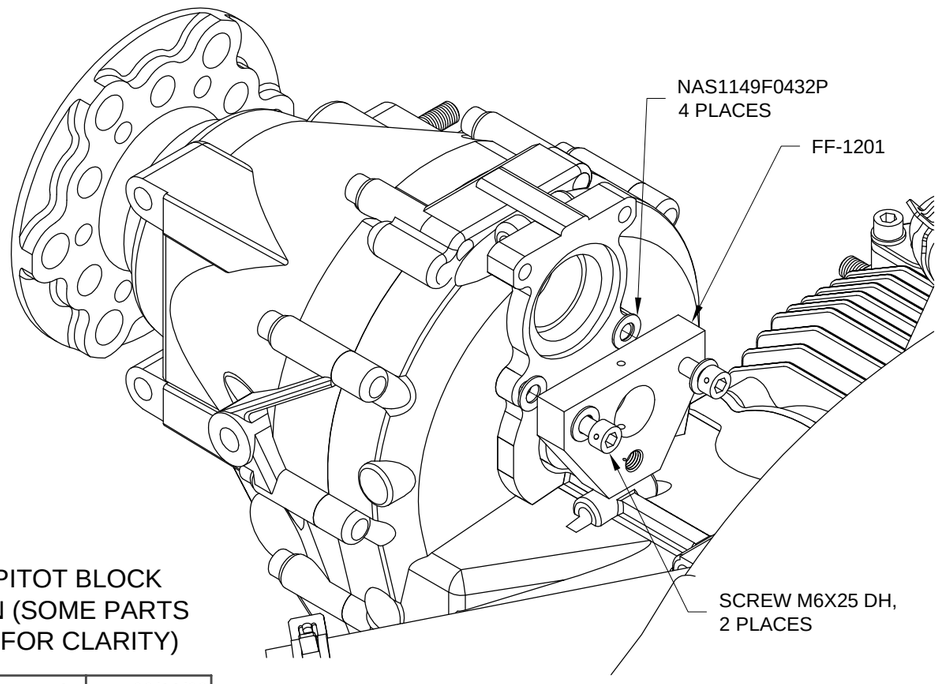

FIGURE 2: PITOT BLOCK INSTALLATION (SOME PARTS NOT SHOWN FOR CLARITY)

Step 6: Insert the locking screw shown in Figure 3 to "tap" the #36 hole in the FF-1201 Pitot Block. Remove the screw and insert the FF-1202 Pitot Tube through the prop shaft and into the pitot block. Turn the pitot tube until the marks made on the pitot tube and pitot block align. Insert the locking screw as shown in Figure 3 and tighten by hand until it just bottoms on the pitot tube. Check that the front of the tube is properly oriented. The head of the locking screw will not be in contact with the pitot block.

A small amount of RTV sealant may be applied to the end of the locking screw before installation if the inner wall of the pitot tube was breached. Check to ensure that the sealant has not blocked the airflow path before proceeding.

Step 7: Route the FF-1216 Pitot Line as shown in Figure 4. Cut a one inch piece of .062X3/8 104-0375062 TUBE to make the FF-1217 Pitot Interconnect and slip it over the end of the pitot line and the aft end of the FF-1202 Pitot Tube as shown in Figures 3 and 4. The pitot line and pitot tube should butt against each other.

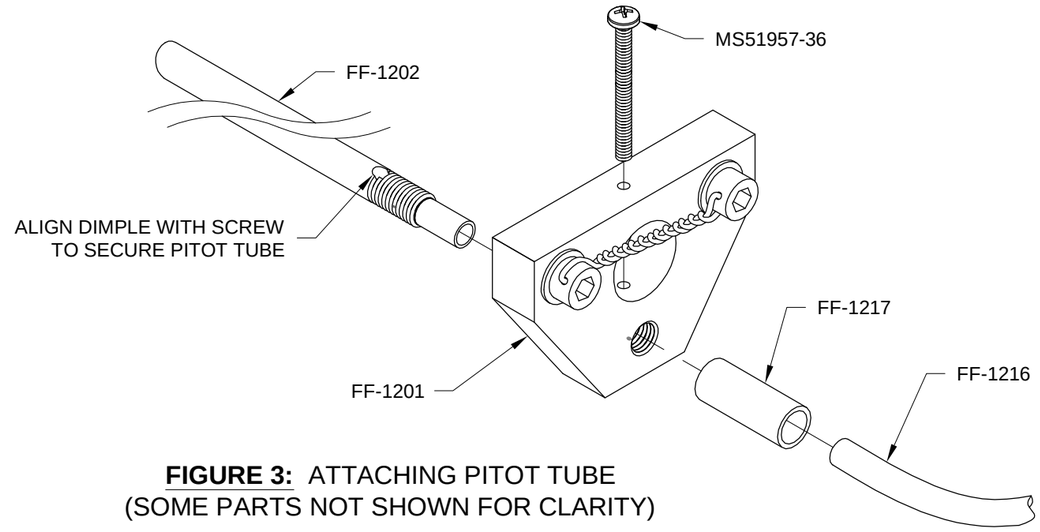

FIGURE 3: ATTACHING PITOT TUBE (SOME PARTS NOT SHOWN FOR CLARITY)

Step 8: Double wrap safety wire around the FF-1217 Pitot Interconnect as shown in Figure 4.

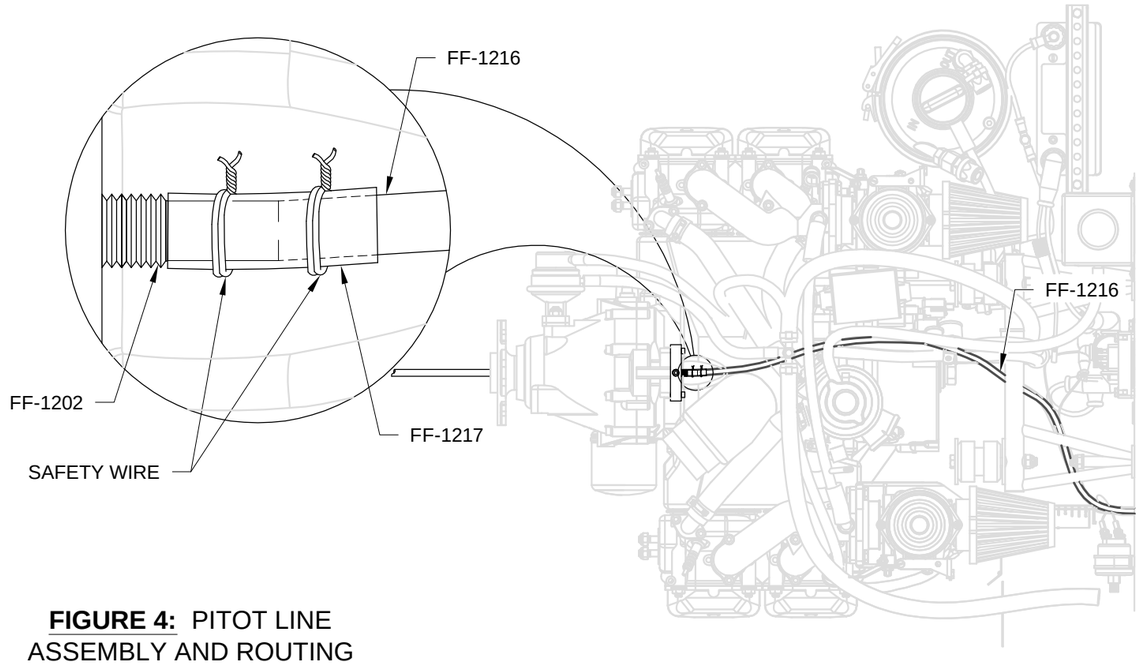

FIGURE 4: PITOT LINE ASSEMBLY AND ROUTING