

**Procedure 9.030**  
**INSTALLATION OF NOSE GEAR WHEEL PANTS AND STRUT FAIRING**

In this procedure...

The nose gear wheel pant mounting brackets will be installed on the nose gear yoke. The nose gear wheel pant will be trimmed and installed. The nose gear strut fairing brackets will be installed on the nose gear strut and the fairing will be assembled and installed.

**MATERIAL SUPPLIED:**

<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
115-11-005	1	Wheel Pant, Nose Gear
115-11-006	1	Fairing, Nose Gear Strut
115-11-007	1	Piano Hinge 24"
115-11-004	4	Nose Gear Fairing Bracket
115-12-001	2	Aft Nose Gear Wheel Pant Bracket
115-12-002	1	Fwd Nose Gear Wheel Pant Bracket
AN426-AD3-4	75	Solid, Aluminum Rivet
K2000-3	16	Anchor Nut
MS24693C52	40	Screw
QS200-48H	4	Hose Clamp

**Step 1. Attach aft brackets**

Attach the aft nose gear attach brackets to the nose gear yoke using 5/16 x 18 bolts. The attach holes are pre drilled in yoke assembly. Tape the predrilled hole to 5/16 x 18 threads. Install the 5/16 bolts using a star lock washer and lock tight.



**Step 2. Attach forward bracket**

Attach the forward bracket to the front side of the yoke assembly using 1/4" drilled head bolts. Safety wire bolts together.



**Step 3. Position Wheel Pant on Yoke Assembly.**

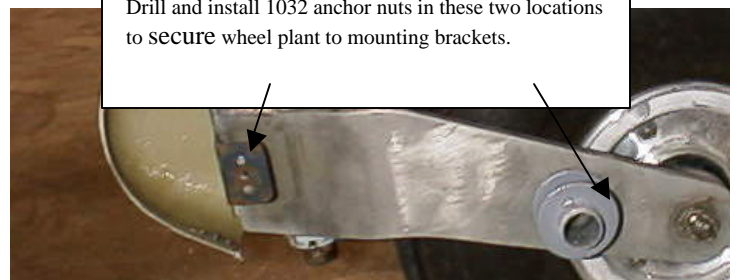
Find the pre-marked location for the aft attach bracket on the right wheel pant and drill a 7/8" hole. Position the wheel pant on the nose gear and block up the rear of the pant so that it sits in the desired location. Insure that you maintain at least 3/4" gap between the top of the tire and the wheel pant.

Place the left side of the wheel pant in position and drill and cleco them together. Screw spacing along the joggle should be approximately 4" apart. (**Note: Do not place a screw directly above the nose gear tire.** )

**Step 4. Attach Wheel Pant to Front and Rear Bracket.**

Locate the center of the Front Bracket attach point and drill a 1/8" hole through the wheel pant and the bracket. Install a cleco in this hole. Drill a second hole just aft of the rear attach bracket tube. Make sure this hole is centered on the attach bracket flange. Install a cleco in this hole. Repeat these steps on the opposite side.

Remove the wheel pant and install 10-32 anchor nuts to the four attach point holes. Install 8-32 anchor nuts to the wheel pant flange. Reinstall the wheel pant to the nose gear yoke.

**Step 5. Install the Nose Gear Fairing Attach Brackets to Nose Gear Strut.**

Attach the Nose Gear Strut Fairings to the Nose Gear Strut using four hose clamps. These attach brackets should be evenly spaced between the Shock Strut Attach point and the top of the spindle gusset.



**Step 6. Install the Nose Gear Strut Fairing.**

Position the Nose Gear Strut Fairing on the Strut and achieve proper alignment with the Nose Gear Wheel Pant. Trim the Fairing as Necessary. Remove the fairing and install the piano hinge to the trailing side of the fairing. Install hole finders in the four mounting brackets. Reinstall the fairing, check for alignment, and press the fairing against the hole finders with sufficient force to insure the point of the hole finder has marked the fiberglass fairing. Remove the fairing and drill the 3/16" hole. Reinstall the fairing, insert the piano hinge wire and install the four attach bolts.

