Installation Instructions for Columbia 300/350/400 NSA Sunvisor System
(Including Mount Bracket Installation)   Kit R1381000-3

This is a FAA STC'd installation requiring a log book entry upon completion.

Please read through these instructions completely before beginning.

Doc: 9051-0138-003

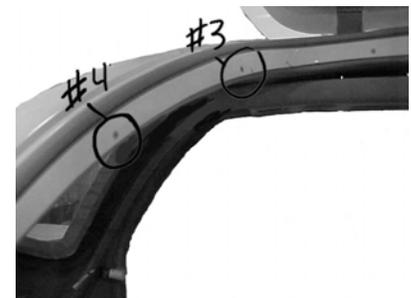| Rev	Date	Approved
A	3/27/2008	GH

Installation time is approximately 3 to 6 hours.

This installation requires at least a 24 hour cure time after completion of installation prior to flight.

Installation Hardware (included):

4	MS24693-C274B	#10-32 x .75 Phillips Flathead Screw
2	MS16995-27B	8-32 x .625 Socket Head Cap Screw
2	8HCLW	#8 Lock Washer
1	1381400	Adhesive Kit
1	1381101-1	Pilot Mount Assembly
1	1381101-2	Copilot Mount Assembly

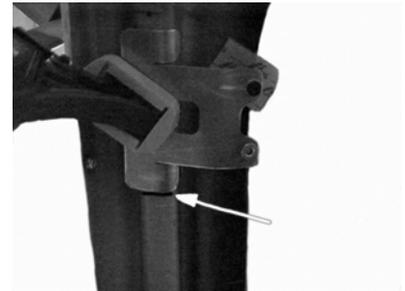### **Bracket Locating Instructions**

- Remove center overhead console and both forward upper panels.

- Cut out the bracket locator template (1381401) on dotted line and carefully punch out center points of holes using a razor knife, pen, paperclip, etc.

- Using #8-32 x .50 screws and #8-32 locknuts provided, mount bracket locator template to holes #3 and #4 on the edge of the egress area on the pilot side of the aircraft. The text should be facing you and visible while locating the pilot side bracket.

- Gently pull bracket locator template (be careful not to tear) to the inner contour of the fuselage and mark the carbon roll cage where the edge of the template intersects.

- Remove the template from the pilot side (again, be careful not to tear).

- Repeat step 3 on the co-pilot side (again, being careful not to tear).

- Repeat step 4.

- Remove the template from the co-pilot side.

Bracket Bonding Instructions

- Completely insert the two #10-32 x .75 screws into the upper/inner mount hole of the mount brackets.

- Prepare brackets and frame rail surface on both pilot and co-pilot sides per adhesive spec (rough with 80 grit sandpaper and wipe clean with alcohol).

- Mix 2 part adhesive thoroughly (refer to adhesive package for safety precautions).

- Apply half of the adhesive to the first bracket (uniform thickness of at least .125 inches).

- Position bracket as shown with the bent tabs on the support and with the lower edge of bracket aligned with the line drawn on the frame rail in the previous section of the instructions.

- With a pistol grip clamp or equivalent, gently but firmly clamp bracket to frame rail allowing the #10-32 screw to softly press against the inner wall of the fuselage (if necessary, a small piece of electrical tape would be sufficient to keep from scratching the composite).

- Repeat steps 4 – 6 for the opposite side.

- Allow the adhesive to cure for at least one hour before removing clamps (refer to package for cure timeline).

Headliner Hole Instructions

- Remove the 10-32 x .75 screw from the co-pilot side and insert it into the empty hole of the pilot side bracket.

- Using a slow drying paint or ink, mark the heads of both screws.

- Install the pilot side upper forward panel and press it firmly against the screw heads to transfer paint onto the inside surface of the panel.

- Remove panel, both screws, and tape.

- Insert both screws completely into the copilot side bracket.

- Repeat steps 2 – 4 for co-pilot side panel.

- Remove and retain the #10-32 x .75 screws

- Using 3/8" drill bit, drill the four marked holes.

- Re-install modified headliner panels and the upper center console

Installing the Visor Arm/Assembly

- Install the pilot mount assembly (1381101-1) onto the newly installed bracket with the #10-32 x .75 retained from the previous step.

- Mount the pilot arm and visor onto the swivel of the mounting assembly with the #8-32x.625 (MS16995-27B) and #8 lock washer provided.
      (Note: The inside of the mod block is already lubed, so be sure to wipe excess off the bottom of the swivel after installation.)

- Use the hex keys provided to adjust the tension on all pivot points so that they move freely but not loosely.

- Repeat using the Copilot mount assembly (1381101-2).

Continued Airworthiness Instructions:

- (**On the ground only)**
    o Periodically clean the lenses with a soft cloth, mild soap and water or an approved aviation grade windscreen cleaner; Rosen Plastic Cleaner, Polisher and Protectant, or mild soap and water. Do not use abrasives on the lens.
    o Periodically adjust the pivot tensions on the visor assemblies.
- Updates to this continued airworthiness section are available on the Rosen Website. (www.rosenvisor.com)

The most up to date version of this document is available on the Rosen Website (www.rosenvisor.com).

We recommend that you periodically look to make sure you are using the most current version.

Airworthiness Limitations:

The Airworthiness Limitations Section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no airworthiness limitations associated with this installation.