

## SERVICE INFORMATION LETTER

FROM: JetProp LLC

21 March 2012

SUBJECT: Glare Shield Fan Installation

TO: JetProp Owners

**Background.** JetProp LLC currently has an optional glare shield fan installation. The glare shield fans are designed to help keep the avionics cool and to help defrost the pilot and copilot windows. This service letter outlines the installation of the optional glare shield fans for PA-46-350P aircraft with the split glare shield.

### Glare Shield Fan Installation.

- a. Preparation. Remove the left and right glare shields. Also, remove the right lower side panel to gain access to the avionics bus.
- b. The glare shield fans are installed in the left and right glare shields as shown in drawing 560.14.927 and Figures 1-4. The exact location of the glare shield fans will vary from aircraft to aircraft due to the differences in avionics/equipment installed. Note that the fans are installed on the bottom side of the glare shield. Therefore, prior to installation ensure there is adequate room below the glare shield for the fans prior to installation. Once you find the best location for the fans and verify there is adequate clearance for the fans below the glare shield, mark the location of the center of the fan on the glare shield. Drill a ¼ inch hole in the glare shield at the center location. We will eventually drill a 4.5 inch diameter hole for the fans but we want to be careful not to damage the vinyl glare shield covering. We normally put 4 slits in the vinyl covering about 2 inches long starting at the ¼ inch center hole every 90°. Then pull the vinyl loose from the glare shield for approximately a 5 inch radius from the center hole. Then slide in a 4 inch square piece of cardboard or other suitable material to protect the vinyl while drilling the 4.5 inch diameter hole. With the protective material in place (centered on the ¼ inch hole and between the fiberglass and the vinyl), use a hole saw to cut the 4.5 inch diameter hole in the glare shield. Carefully drill from the bottom of the glare shield through the fiberglass to the protective cardboard. Now remove the thin piece of protective cardboard and trim the vinyl as necessary to fit neatly around and through the 4.5 inch cut out. Extend the existing slits in the vinyl to 1/8 inch from the edge of the hole. Then cut additional slits approximately every 20° to within 1/8 inch of the edge of the hole to allow the vinyl to be folded through the hole and secured to the bottom of the glare shield. Once the vinyl fits nicely around the hole, glue it in place with the excess glued in place on the bottom of the glare shield. Now locate, mark and drill the four mounting holes for the fan. Be careful not to damage the vinyl while drilling the holes. Install the fan as shown in Drawing 560.14.927 and Figures 1-4. Repeat the process for the fan in the other glare shield.



Figure 1. Glare Shield Fans Installed in Left and Right Glare Shields



Figure 2. Bottom View of Glare Shield Fan Installation

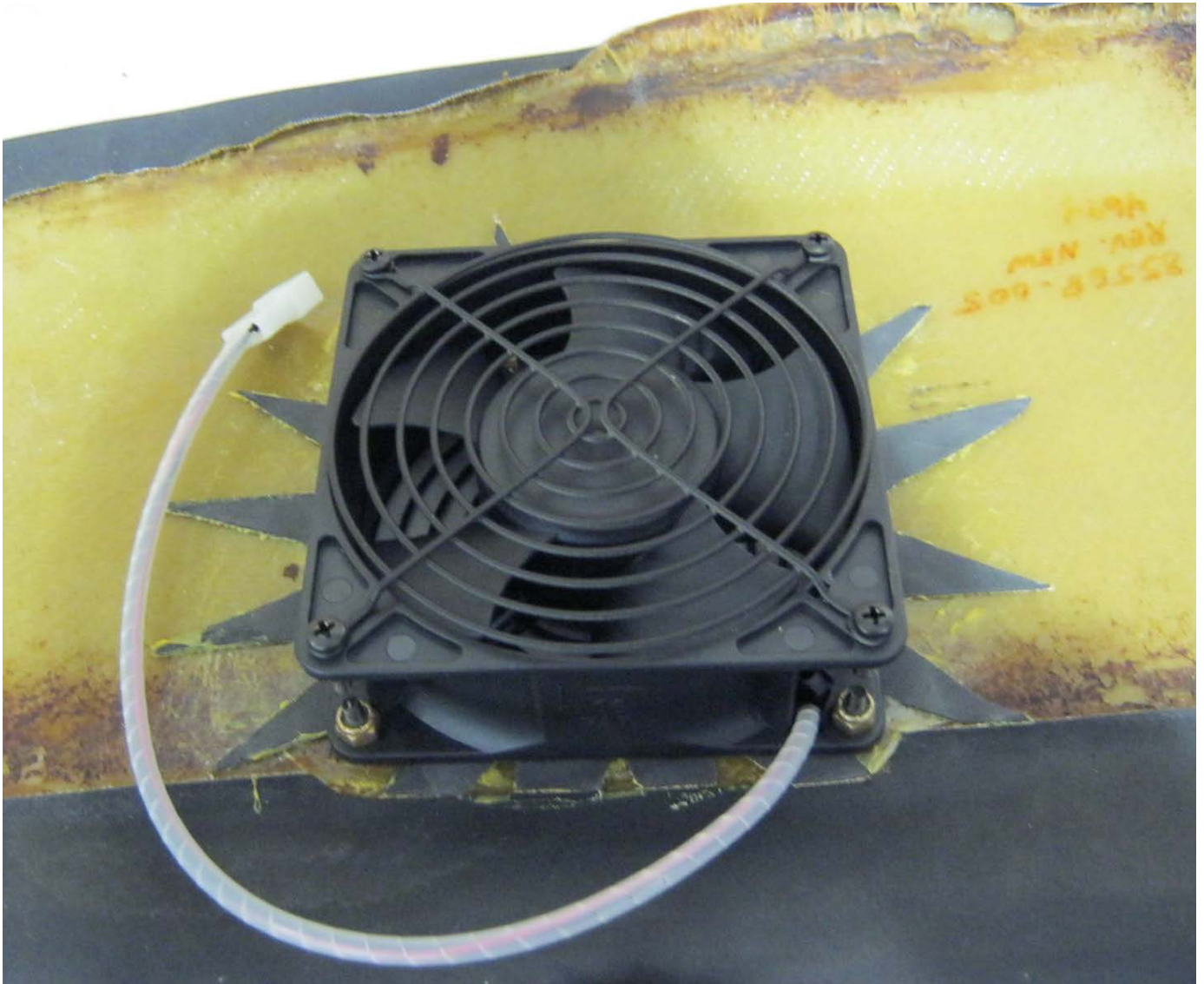


Figure 3. Close Up View of Fan Installed on Bottom of Glare Shield



Figure 4. Close Up Top View of Glare Shield Fan Installation

- c. The electrical wiring is accomplished in accordance with Drawing 560.14.927. Install a 1 amp circuit breaker off of the Avionics Bus to power the glare shield fans. Find an appropriate location on the instrument panel for the glare shield fan on/off switch. Install the switch on the instrument panel and wire in accordance with Drawing 560.14.927. Use the connectors provided to connect to the fans. Make sure all wiring is secured and the circuit breaker and switch are labeled appropriately.
- d. The left and right glare shields can be installed and fans connected. The right side panel can be installed.
- e. A log book entry should be made stating the glare shield fans were installed in accordance with JetProp LLC Service Information Letter 12-560-03. The glare shield fan installation adds approximately 1 lb at FS 115 and takes approximately 8 man-hours to accomplish.

Table 1. Glare Shield Fan Installation Parts Listing

Part#	Description	Quantity
6KD74	Fan	2
7-5684	Fan Grill	4
MS35214-44	Screw	16
MS21044N08	Nut	16
7101SYZQE	Switch	1
03-09-1022	Female Connector	2
03-09-2022	Male Connector	2
02-09-1119	Female Pins	4
02-09-2118	Male Pins	4
7277-2-1	1 amp circuit breaker	1
11-00821	Mini Toggle Switch Cover	1
M22759/16-22-9 wht	AWG 22 white wire	15 ft
M22759/16-22-0 blk	AWG 22 black wire	10 ft
HSTT 12M	1/8 inch heat shrink tube	12 in
PNF 18-6R-M	#6 Ring Terminal	1

If there are any questions, please contact Rich Runyon in Engineering or Rick Zepp in maintenance at (509) 535-4401.

Sincerely,

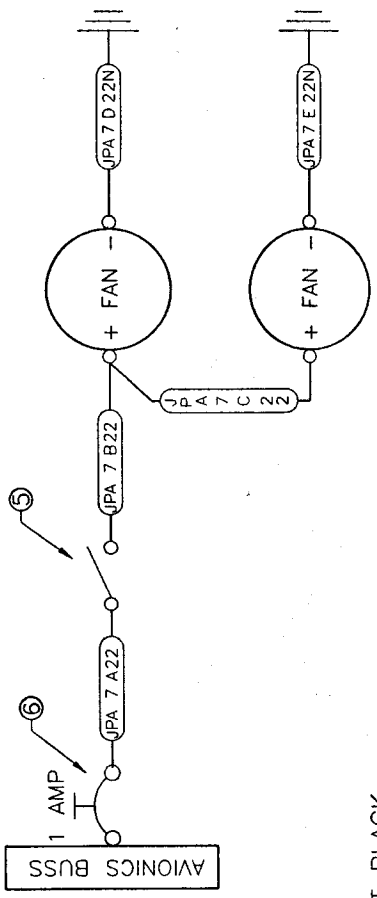
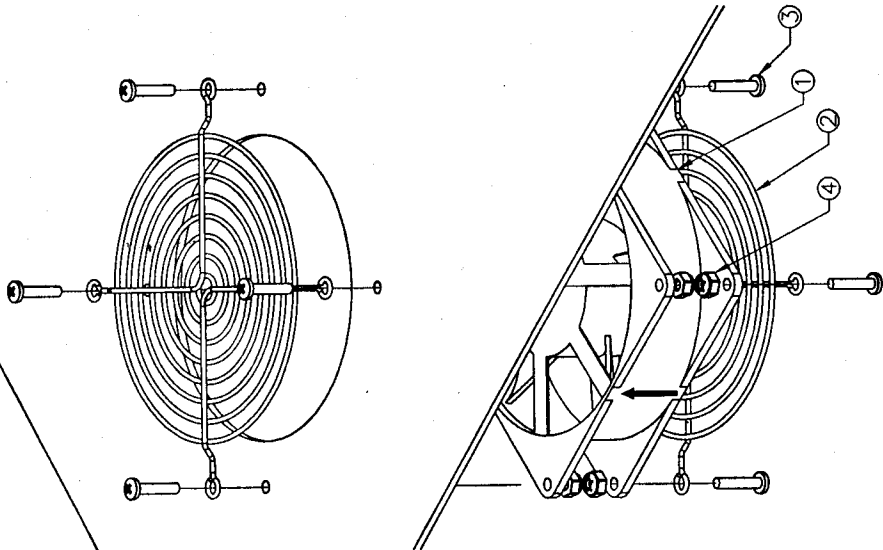
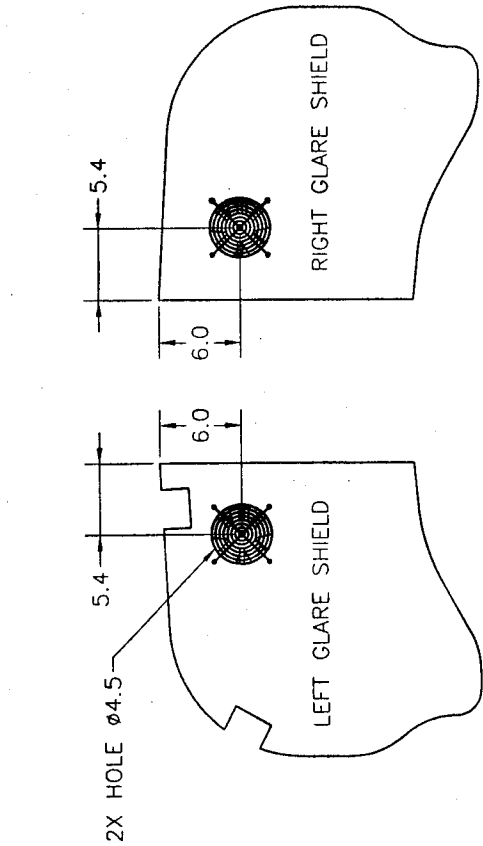
Darwin Conrad  
 President  
 JetPROP, LLC

Attachments

- 1. Glare Shield Fan Installation Drawing 560.14.927

REVISION DESCRIPTION

- A ADDED FAN GRILL PART NUMBER.
- B CHANGED C.B. TO 1 AMP.



ITEM	QTY	PART NO.	DESCRIPTION
6	1	7271-2-1	1 AMP CIRCUIT BREAKER
5	1	7101S70E	SWITCH
4	16	MS21044N08	NUT
3	16	MS35214-44	SCREW
2	4	7-5684	FAN GRILL
1	2	6K074	FAN

SCALE	NTS	SIZE	REVISION
		B	

FOR DESCRIPTION OF CHANGE - SEE ABOVE			
TR	ECO	BY	DATE
A	6952	RD	10/09
B	7333	RD	10/10

TOLERANCES:  
 X ± 10 .XX ± 0.30  
 .XXX ± 0.10 ± .1"  
 REMOVE BURRS AND SHARP EDGES

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
DRAWN R. DRAPER 5/09
CHECKED RSD 12/10
APPROV'D [Signature]
FAA APPL [Signature]

BILL OF MATERIALS
PROJECT: JetPROP DLX
DRAWING TITLE: GLARE SHIELD FAN INSTALLATION
SHEET 1 OF 1
DRAWING NUMBER: 560.14.927
REV. B

P/N	NEXT ASSTY.	USED ON	QTY.
-	-	-	-

NOTES: UNLESS OTHERWISE SPECIFIED  
 1. UPPER FAN GRILLS MUST BE PAINTED FLAT BLACK.  
 2. AIR FLOW DIRECTION IS UP TOWARDS WINDSHIELD.  
 3. LOCATION MAY BE ADJUSTED TO FIT INDIVIDUAL AIRCRAFT.