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INSTALLATION INSTRUCTIONS INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Installation of P/N 180VBE Windshield V-Brace on Cessna 180, 180A and 180B Airplanes

RETAIN THIS DOCUMENT WITH THE AIRCRAFT RECORDS

REVISION HISTORY

Document Number: 180VBI

Revision	Description	Date
--	Original Issue	4/3/08

1.0 Modification Description

This STC approves the design and installation of a windshield V-brace for Cessna 180, 180A, and 180B airplanes. Windshield V-braces were not originally installed in the aircraft covered by this STC. This V-brace is very similar to the braces installed by the factory on later model 180 floatplanes (S/N 50661 and on) but differs in that it is a higher strength part. The windshield V-brace adds rigidity to the airframe which aids when operating on floats or rough terrain.

The brace consists of a welded stainless steel tube and plate structure that is bolted into the airframe on each side of the spar carry through and on the top of the instrument panel glare shield.

2.0 Model Applicability

This modification is applicable to Cessna airplane models 180, 180A, and 180B s/n 604, 614, and 30000 through 50661.

3.0 Installation and Removal Procedures:

NOTE: Due to the age of these aircraft, not all airframes are alike because of previous damage, hard landings, etc. Under no circumstance is it recommended to jack the aircraft, elongate holes, or force a V-Brace into place if for some reason the V-Brace does not fit.

Refer to Figure 1 on the following page.

1. Remove the headliner around the forward spar carry-through. Remove enough instruments and radios to be able to access the underside of the glare shield directly below the V-Brace mounting plate.
2. Place the V-Brace in the aircraft.
3. Remove (2) existing bolts on the upper forward spar carry-through, LH & RH sides to accept the upper attachments on the V-Brace.
4. With the head of the bolts on the aft side of the spar carry-through, install the correct length AN-3 bolts. Install and match the existing nuts and washers. Refer to Advisory Circular AC43-13-1b as a reference for acceptable practices and torques.
5. With the upper V-Brace attach bolts secure, the forward mounting plate will be flush on the glare shield panel.
6. Drill two 3/16 in. holes in the forward V-brace mounting plate at the locations pre-marked with a center punch. Once the holes are drilled in the mounting plate, match drill through panel from mounting plate at three locations.
7. Attach the forward mounting plate to the glare shield panel using (1) 1/4" AN-4 bolt and MS21045-4 nut in the center hole, and (2) 3/16" AN-3 bolts with MS21045-3 nuts and large area washers on each side of the mount plate. Refer to Advisory Circular AC43.13-1b for acceptable practices and torque procedures.
8. Reinstall the headliner around the forward spar carry-through and the instrument panel in the aircraft.
9. The weight of the V-Brace is 2.3 lbs, less the hardware. Make the log book entry, complete FAA Form 337, and update the weight and balance and equipment list records.

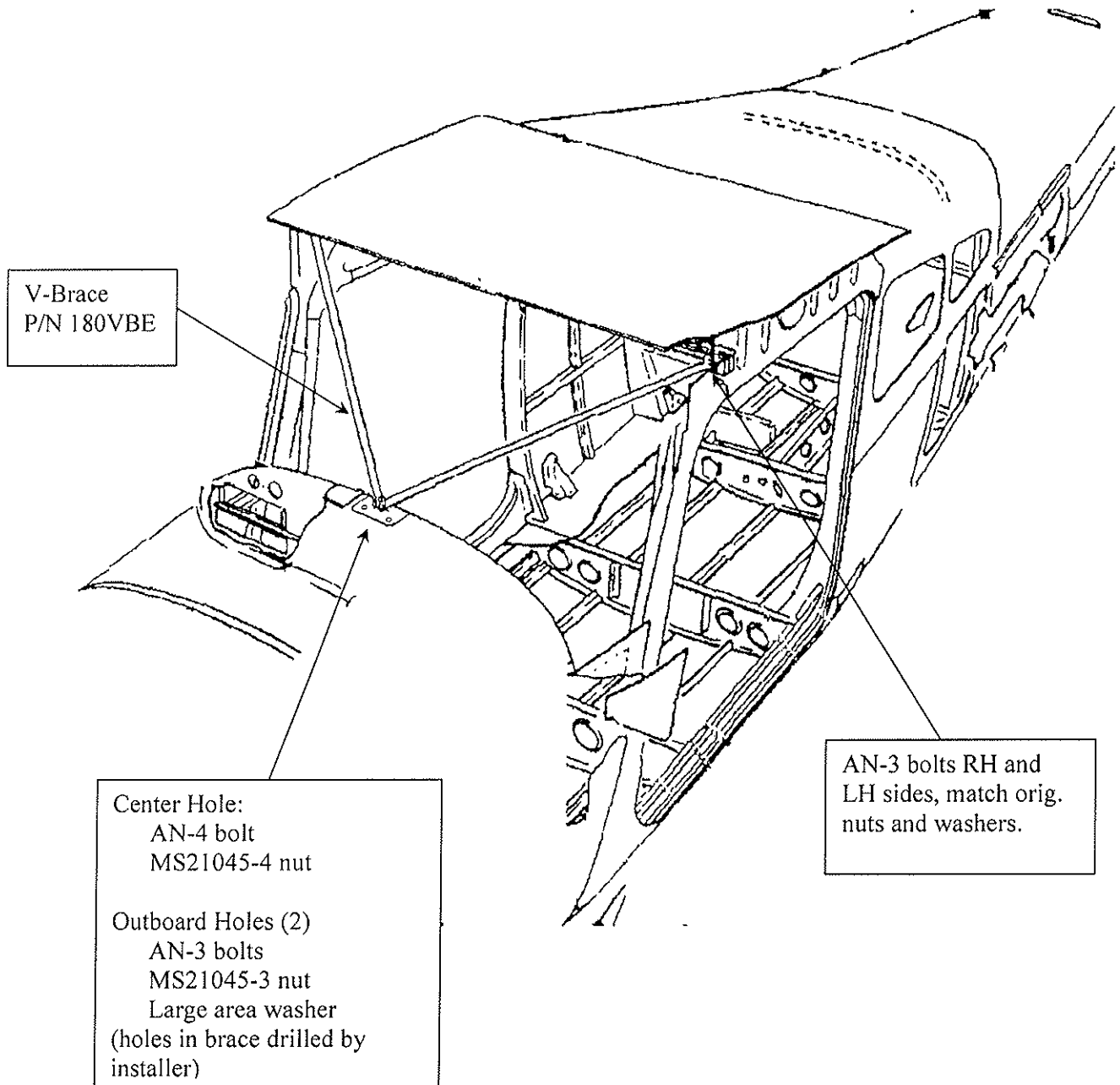


Figure 1
Typical Installation

4.0 Maintenance

If repairs are deemed necessary, high quality welds may be used on the V-Brace using the appropriate welding equipment and consumables for AISI 304 stainless steel. All paint and primer near the area to be repaired should be removed and the exposed metal degreased before welding.

4.1 Inspection Requirements

The windshield V-Brace should be inspected on a regular 100 hr/annual or progressive basis in accordance with the applicable maintenance manual. Replace hardware as required.

5.0 Airworthiness Limitations

This Airworthiness Limitations Section is FAA approved and specifies maintenance required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations unless an alternate program has been FAA approved. This modification does not affect the airworthiness section of the FAA Approved Maintenance Manual.

No additional airworthiness limitations have been imposed by this modification.

6.0 Parts list

The following parts are included with part number 180VBE for the V-Brace Installation.

Parts	Description	Quantity
180VBE	V-Brace	1
Documents		
180VBI	Installation Instructions / ICA	1

Latest revisions of this document may be obtained by contacting F. Atlee Dodge Aircraft Services as listed at the top of page 1.

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