

*P.O. Box 1240
Afton, WY 83110 USA
Tel: 307-885-3151
Fax: 307-885-9674*

e-mail: aviat@aviataircraft.com

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SUBJECT: LONGERON CHAFING

REVISION: Initial Release (IR)

AIRCRAFT MODEL: Husky Model A-1, A-1A, A-1B, A-1C-180, A-1C-200
(CERTIFIED IN ANY AIRWORTHINESS CATEGORY)

Engineering Data is FAA Approved

PURPOSE

To inform aircraft owners of a possible chafing issue of the lower longerons by the panel screws that could cause corrosion of the fuselage longerons.

DESCRIPTION

Aviat Aircraft Inc. has received service difficulty reports from the field that the lower longerons of the husky fuselages are being chaffed by panel screws attaching the side panels to the belly panels. If not corrected chaffing will cause corrosion of the lower longerons. If any chaffing is found it must be repaired. The panels screws lengths are critical and must be verified before installation.

COMPLIANCE

Compliance with this service bulletin is required at the next annual inspection and each annual inspection thereafter.

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AFFECTED MODEL LIST

All Husky Aircraft models A-1, A-1A, A-1B, A-1C-180, and A-1C-200, All Serial Numbers.
(CERTIFIED IN ANY AIRWORTHINESS CATEGORY)

ACCOMPLISHMENT INSTRUCTIONS

*NOTE: Only FAA authorized repairmen should perform the following instructions.

- It is the responsibilities of owner/operator to have only have an FAA authorized repairman perform the accomplishment instructions of this service bulletin.

Step 1, Read this service bulletin in its entirety before starting compliance. This service bulletin has been simplified and does not call out part numbers of each panel. The panels are defined as a number, panel 1, panel 2 etc., see illustration views on page 3 & 4. Panel screw kits, part number A-1-SB31 are available from Aviat Aircraft Inc.(AAI) parts department. You can reach the part department at phone 307-885-3151 or email parts@aviataircraft.com. The panel screw kit A-1-SB31 consists of (8) AN365-632A nuts AAI part no. 55475, (8) AN507-632R6 screws AAI part no. 56546, (6) AN 507-1032R8 screws AAI part no. 56570, (14) AN526C -832R5 screws AAI part no. 56832, (90) AN526C-832R6 screws AAI part no. 56833, and (12) AN526C-832R7 screws AAI part no. 56834.

Step 2, To start disconnect the positive battery cable from the battery. Remove the lower cowling assembly by removing the AN526C-1032 screws holding the cowl to the nose bowl and to the fuselage, set the cowl aside. Using the illustration views on page 3 & 4 of this service bulletin locate panel 1. Remove panel 1 by removing the (4) AN507-632R6 screws and (4) AN365-632A nuts located on the front of panel 1. Next remove all screws attaching panel 1 from panels 2, 4, 5, Remove the cockpit lower door by removing the attach screws AN526C-832R7 located on the door hinge. Next remove panel 2 by removing the attach screws from panel 6, 7, and 3. Remove panel 3 by removing the attaching screws from panel 8 and the vertical row of screws just aft of the aircraft cockpit door.

Step 3, Remove panel 9 by first removing the (4) AN507-632R6 screws and (4) AN365-632A nuts located on the front of panel 9. Next remove all screws attaching panel 9, 10, and 11 from panels 12, 13, 14, 15, and 16 and the vertical row of screws on panel 11. Panels 10 and 11 do not need to be removed and can be tied up with a length of safety wire through a screw hole and to a loosened screw attaching the fuel tank cover.

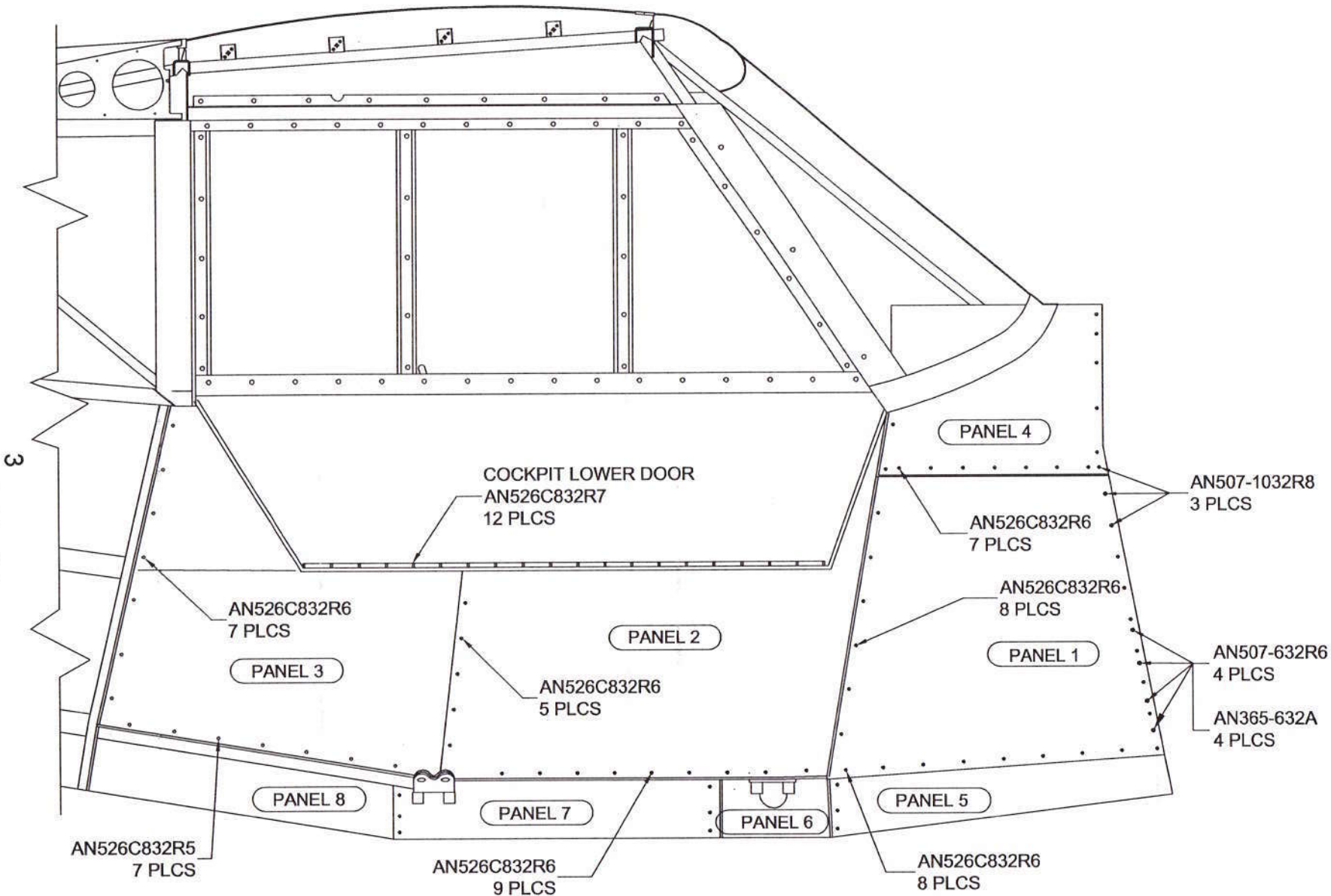
Step 4, Now with access to the fuselage inspect the lower longerons for chaffing. If no chaffing is found reinstall the fuselage panels as per the step 6 below.

Step 5, If chaffing is found, repair the chaffed spot by sanding the spot to remove any loose paint. Then coat the chaffed area with a chromate primer or equivalent and then a coat of enamel paint. Verify screw lengths and install the panel screws per Step 6 below.

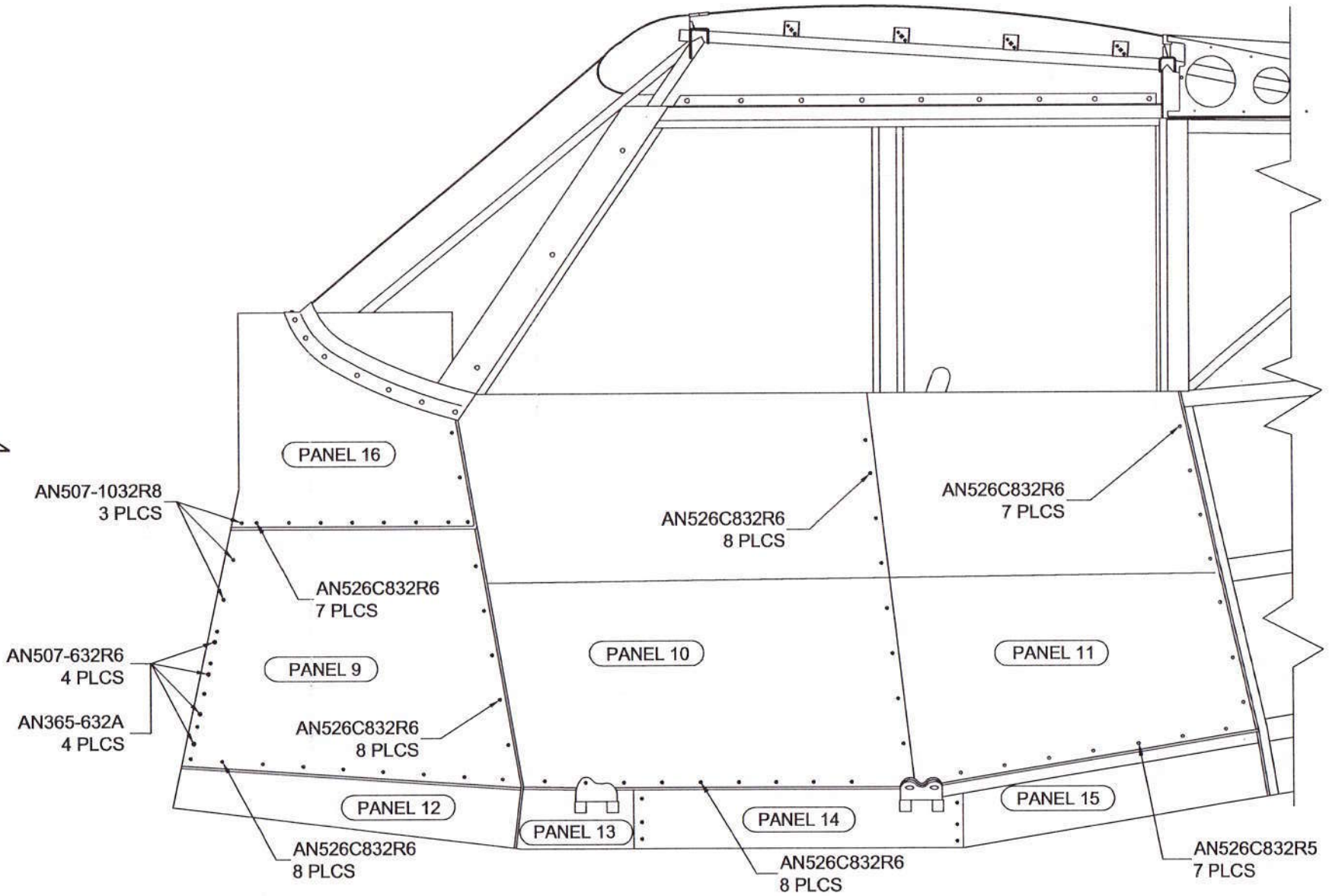
Step 6, If Nylon washers are installed on the removed screws, they can be reused on the screws provided in the screw kit only when installed as described below. Install the RH side panels in reverse order as described above and the illustration views on page 3 but leave out the bottom row of screws on panels 2 & 3, connecting to panels 6, 7, & 8. At this time install AN526C-832R5 screws without nylon washers to connect panels 3 and 8. Install AN526C-832R6 screws without nylon washers to connect panel 2 to panel 7 with panel 6. Install the LH side panels in the reverse order as described above but leave out the bottom row of screws on panels 10 and 11 connecting to panels 13, 14, and 15. At this time install AN526C-832R5 screws without nylon washers to connect panels 11 and 15. Install AN526C-832R6 screws without nylon washers to connect panel 10 to panel 14 with panel 13.

Step 7, Inspect the aircraft to verify all panel screws are tightened and make a log book entry noting initial maintenance was performed referencing this Service Bulletin 31 in the airframe log book.

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