


AIRCRAFT DEVELOPMENT

TITLE: Installation Procedure-Lift Strut Fairing, Cessna

NO. 118-8

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TROY, MO 63379

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1.0 PURPOSE

To explain the installation procedure for lift strut fairings in the safest, most cost and time effective manner.

2.0 SCOPE

This procedure is applicable to all lift strut fairings sold by Aircraft Development with the part numbers having the digits 118-4-(X) or 118-4-(XX). These lift strut fairings developed by Aircraft Development are replacement fairings for Cessna fairings. They are different than most Cessna fairings in that they are split fairings, that allow the installation of the fairings without the need of disconnecting the lift strut from the wing. They are also made of fiberglass which makes for a much stronger and easily repairable fairing.

3.0 GENERAL

All work must be accomplished per Aircraft Development Installation Procedure 118-8, AC 43.13-1 and Cessna's Service manual for the appropriate model aircraft.

4.0 INSTALLATION PROCEDURE

4.1 Lift strut fairings are applicable to Cessna models 150, 152, 170, 172, 175, 180, 182, 185, 205, 206, 210.

4.2 Spread fairings apart and slip over lift strut until flanges are next to aluminum skin and aligned properly to the strut, and with the seam in the fairing properly seated and closed. CAUTION to prevent damage to the fairing during installation please be sure to do the following: do not spread the fairing further apart than is necessary to slip it over the lift strut. Preheat the fairing by some suitable means to a temperature of approximately 125 degrees F (quite warm to the touch). This will make the fairing much more pliable and safe to spread apart twist and bend. Drill #29 pilot holes through fairings at the locations where the mounting screws attach the fairing to the aircraft. NOTE: on some aircraft the screw locations that mount the fairing to the aircraft may not line up with the screw indentations on the fairings. This is because of production tolerances on the screw locations at Cessna Aircraft. Be careful not to move the fairing during the drilling operation. At the fairing seam drill #19 holes through both outer skin and inner flange. See figures 1 and 2 plus table 1 for specific information on fairing installation.

4.3 Use the parts list supplied with the fairing to determine which fairing gets placed where. For example the parts list gives both the Aircraft Development part number for the fairing, and the Cessna part number for the fairing being replaced. Also given is a descriptive name for the fairing that gives the fairing's location, such as Fairing-wing/strut R.H. Then select the Fairing-wing/strut R.H. by selecting the fairing with the proper fairing part number. The fairing part number is marked on the inside of the fairing. In this way the location of the fairing was identified as the R.H. wing to strut fairing. Use this procedure to identify the remaining fairings.

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- 4.4 Remove the fairings from the lift strut and for every place there is a #29 pilot hole redrill the pilot holes with a #19 finish size hole.
- 4.5 Slip the tinnerman nuts provided onto the inner flange of the seam. It may be necessary to grind a small portion of the inner flange away to get the tinnerman nut aligned with the drilled hole in the outer skin.
- 4.6 Install the wing strut fairings back onto the wing struts using the original Cessna provided mounting screws along with the tinnerman nuts and the AN530-8R6 screws provided by Aircraft Development for the fairing seam. Note: On some model aircraft it may be necessary to trim a small portion of the fairing away to clear an obstruction. On fairing 118-4-24 &-25 make sure the AN530-8R6 screws are not impinging on the lift strut.

5.0 GENERAL INFORMATION

- 5.1 Check all work to see that it has been properly accomplished.
- 5.2 It is recommended that the fairing(s) be painted to match the exterior of the aircraft plus painting the fairings offers better UV protection.
- 5.3 In the event the fairing(s) are damaged so as to make them unairworthy they may be repaired using a normal procedure for repairing fiberglass.
- 5.4 Make logbook entry as follows: Installed Aircraft Development's fairing kit in accordance with Aircraft Development installation procedure 118-8.

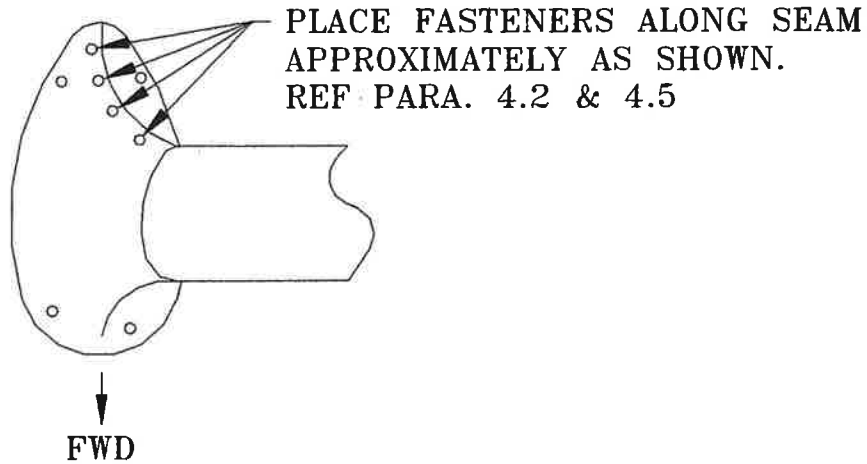
TABLE 1	
FAIRING NUMBER	APPLICABLE FIGURE
118-4-24 118-4-25 118-4-34 118-4-35	FIGURE 1
ALL OTHER FAIRINGS	FIGURE 2

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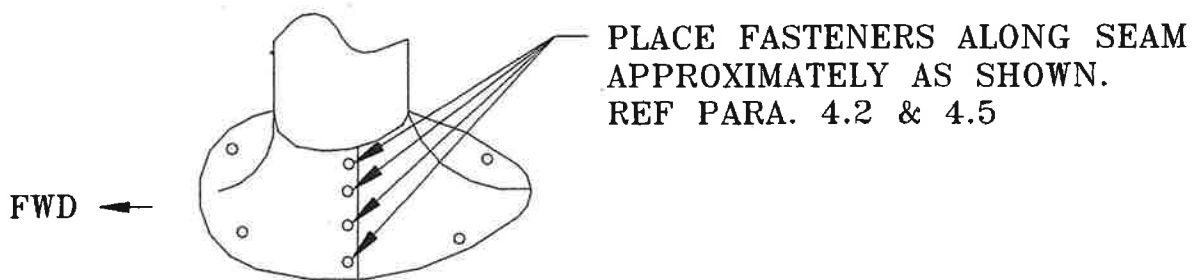
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VIEW LOOKING UP AT
BOTTOM OF LEFT WING,
STRUT WING INTERSECTION.
RIGHT WING OPPOSITE.



LEFT HAND VIEW LOOKING
INBOARD AT STRUT
FUSELAGE INTERSECTION.
RIGHT SIDE OPPOSITE.

FIGURE 1

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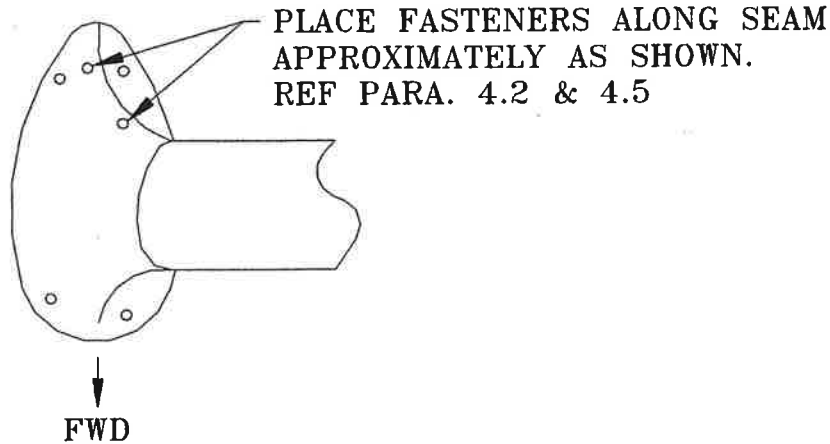
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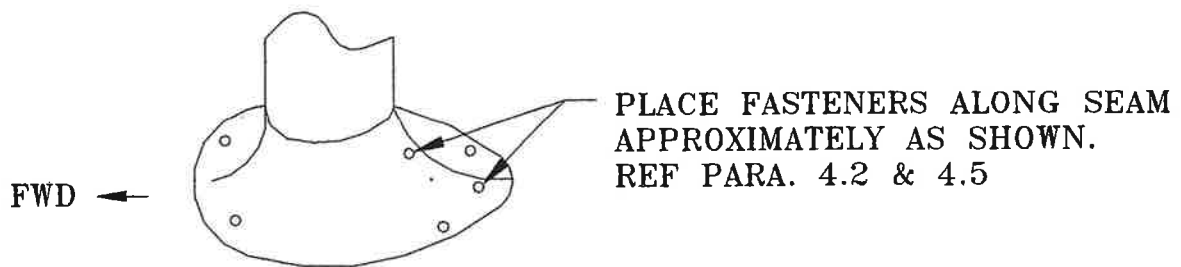
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LEFT HAND VIEW LOOKING
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FIGURE 2

