

WHEELPANTS

Installation Manual

February 1, 1983

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ULTRAFLIGHT MANUFACTURING LIMITED

1.0

INTRODUCTION

1.1

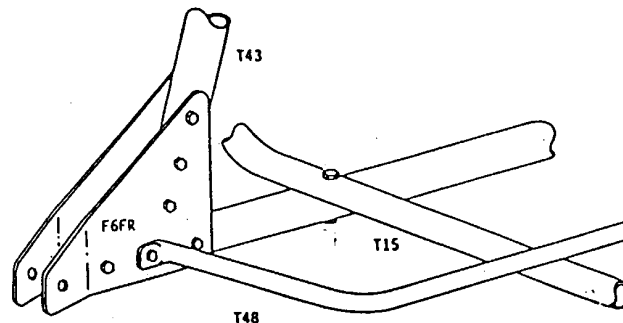
The installation of wheelpants on the Lazair provides several benefits. Although appearance is a subjective criteria, most Lazair owners agree that the wheelpants improve the appearance of the aircraft. Anyone who operates a Lazair from a wet or muddy field will notice a definite reduction in the mud which is normally flung from the tires and deposited on the underside of the wing and the pilot. Although the wheelpants reduce aerodynamic drag, this effect is relatively small and will probably not be noticed.

But by far the most noticeable benefit to be derived from the wheelpants is the complete elimination of that malady commonly known as "Lazair elbow". Owners of wheelpant-equipped Lazairs sometimes have to resort to wearing Lazair T-shirts or crests. No longer can they rely on scuffed or dirty elbows to identify them as Lazair pilots.

1.2

APPLICABILITY

The wheelpants have been designed so that the forward attachment is made to the Bent Crosstube T48. Although all Lazairs shipped after July 1981 incorporate T48, those kits shipped before the introduction of the Rotax engines have the T48 mounted below the T14/T15 side tubes. To mount the wheelpants properly, T48 should be mounted on top of T14/15 as shown in the illustration. However, if you would rather not move the T48, the wheelpants could be attached to it by using a short piece of 1/2 x 1/2 x 1/16 inch aluminum angle.



The installation of wheelpants on earlier Lazairs (which have spoked wheels and do not have a T48) is not recommended.

1.3

FINISH

Before the wheelpants are permanently installed, they should be painted as required to match the colour scheme on your Lazair. Before painting, they should be degreased and sanded lightly with No. 400 wet or dry sandpaper. Any good quality automotive paint may be used for the final finish.

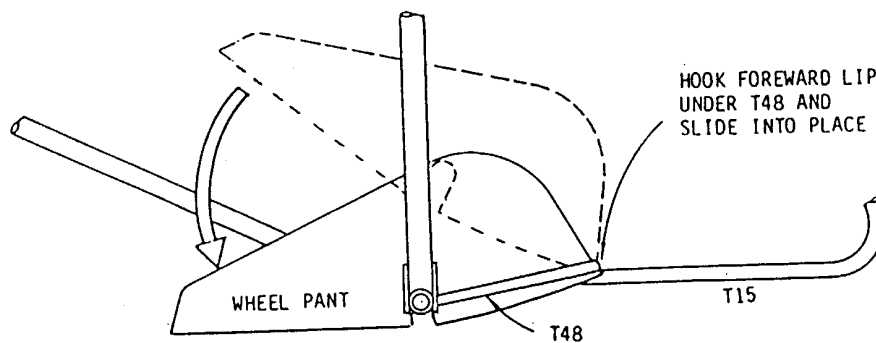
Because of the possibility of scratching the paint during installation, it is recommended that the wheelpants be fitted and installed (with the exception of the rivets into T48) before painting. They can then be removed and painted, then reinstalled and riveted in place.

2.0

INSTALLATION

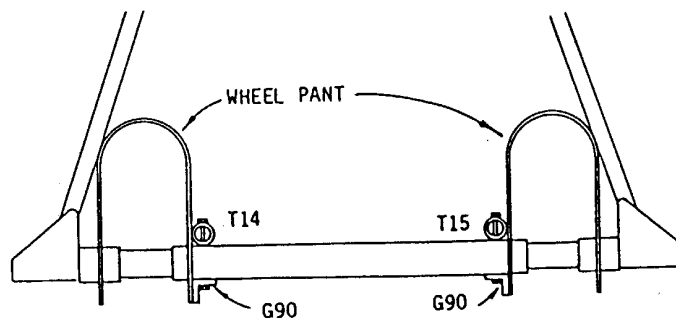
2.1

Slide each wheelpant into place as shown. Hold the forward lip tightly against the bottom of T48 and check for adequate clearance around the tire. If necessary, the axle tube slots in the wheel-pants may be enlarged with a saw or file to allow the wheelpant to be properly positioned.



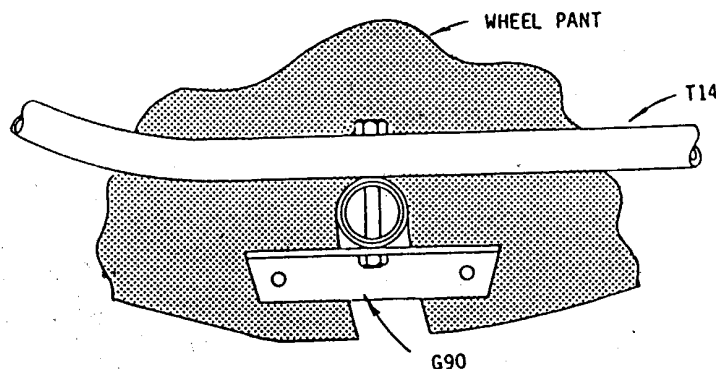
2.2

Bolt the two G90 wheelpant Attach Angles in place on the underside of the axle as shown.



2.3

Mark the position of the two mounting holes (in each G90) on the wheelpants. Remove the wheelpants and drill the holes using a 7/32 inch drill.



2.4

When you are satisfied that the wheelpant fits properly and the paint is completely dry, refit them and bolt the inboard skirts to the G90's with type 34 bolts and N3 nuts. Use a W3S washer between the nut and the wheelpant skirt.

2.5

Hold the forward lip of the wheelpant tightly against T48 and rivet to T48 with three stainless steel rivets in each wheelpant.

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PARTS LIST - WHEELPANTS KIT

<u>Quantity</u>	<u>Part No.</u>	<u>Description</u>
2	M9	Wheelpant
2	G90	Attach Angle, Wheelpant
4	34	Bolt
4	N3	Nut
4	W3S	Washer
6	-	Rivet, Stainless Steel
1	83010	Installation Manual