

WHEEL FAIRING OPTION
Ref Dwg 6-WFO-1, June 2006



The 3 wheel fairings are identical: there is no difference between the left and right side: the same fiberglass fairing is used for the main wheels and for the nose wheel.



Side view: point is towards the front.



Weight of each fiberglass fairings approximately 2 pounds each.



Installation brackets; Total 6 pieces
Weight approximately 1.5 lbs
6WFO-1 , 2 and 3



The nose wheel fairing is cut in half along a diagonal line to fit around the nose gear leg – the wheel fairing can be removed without taking the wheel off.



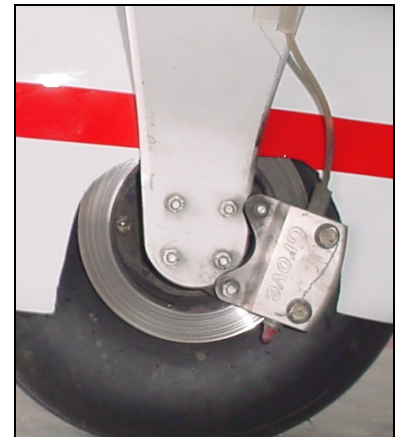
Note: the ends of the axle make for an ideal location to hook on a tow bar.

Front view



Right wheel

Note: Wheel fairing have to be removed to add air: the stem is not accessible (all 3 wheels).



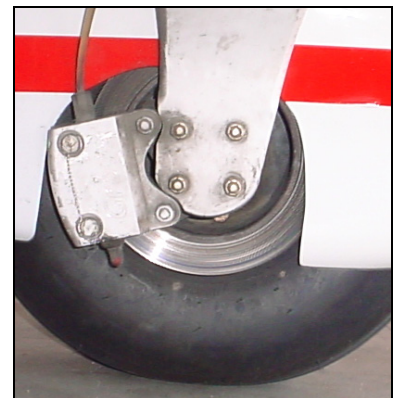
Cutout on the inboard side only, photo of right wheel.



left wheel fairing

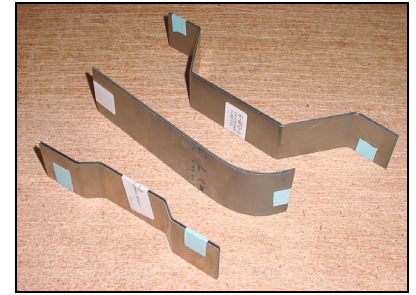
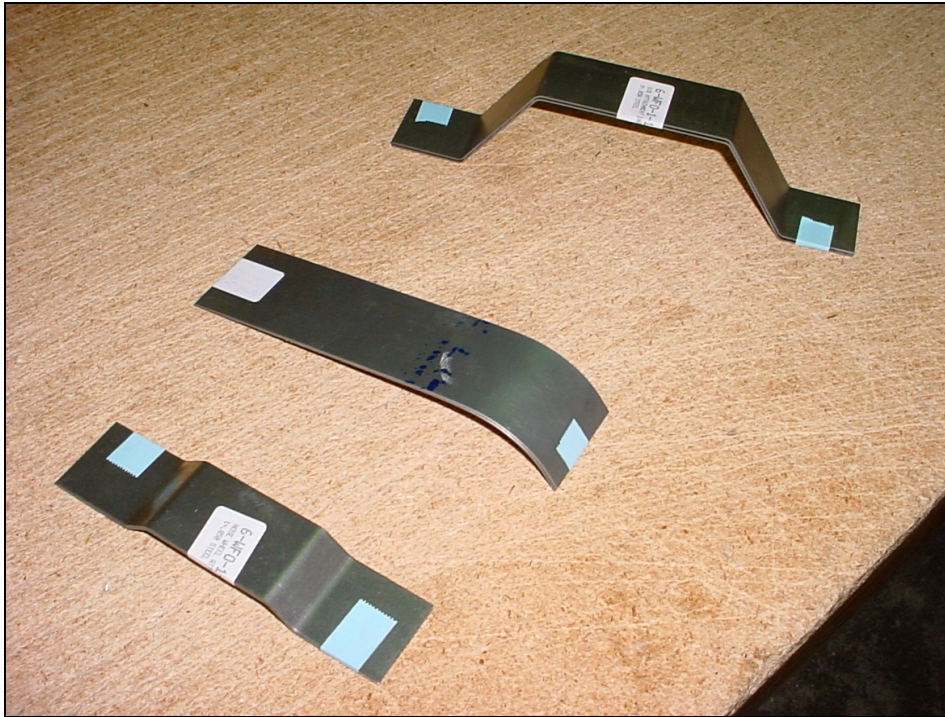


3 crews hold the wheel fairings in place. Photo of I/B screw



Inboard side of left wheel fairing, cutout for landing gear and brake calipers.

Wheel fairings do not interfere with the brake lines.



Steel brackets 4130

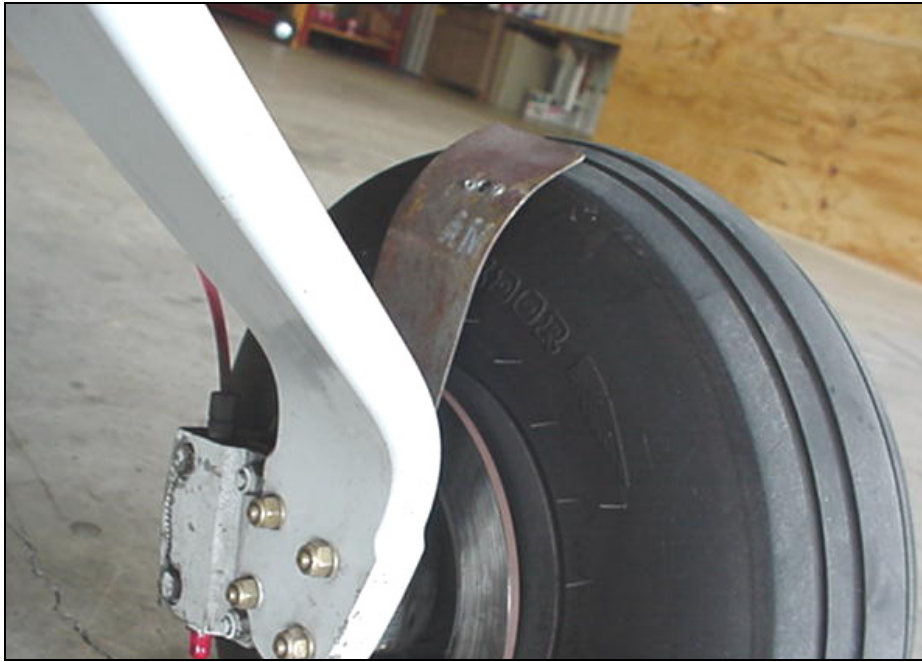
Top : O/B attachment bracket 6-WFO-1-1 (main wheels)
 middle: I/B attachment bracket 6-WFO-1-2 (main wheels)
 bottom: Nose wheel attachment bracket 6-WFO-1-3



Photo of left wheel

Ref. drawing 6-WFO-1

I/B and O/B wheel fairing attachment brackets



I/B Bracket 6-WFO-1-2 fits between the wheel axle and the outboard side of the rear.
Bottom of bracket is installed even with the bottom of the gear.



Install nutplate with 2 rivets A3



To mark the location of the nut plate on the wheel fairing: fold a piece of cardboard in half, push the cardboard between the gear and the wheel fairing; to keep it from moving tape the edge to the gear. With the cardboard against the bracket, mark the location of the hole on the cardboard.

Note: Photo shown for illustration purpose only, fairing must be removed to mark the center of the nutplate on the cardboard.



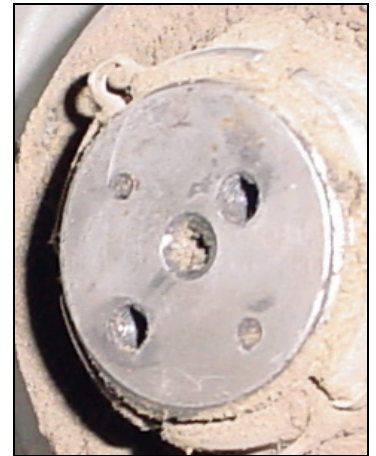
Hold the cardboard on the wheel fairing to mark the center of the nut plate (pin hole in cardboard).

REMARK: First screw the wheel fairing to the outboard brackets before locating the screw in the inboard bracket.



Check: the filler stem for the inner tube does not interfere with the bracket.

Layout the location of the 2 middle in the O/B attachment brackets
6-WFO1-1
AN3H-3A bolts through the wheel axle, safety wire tied together.

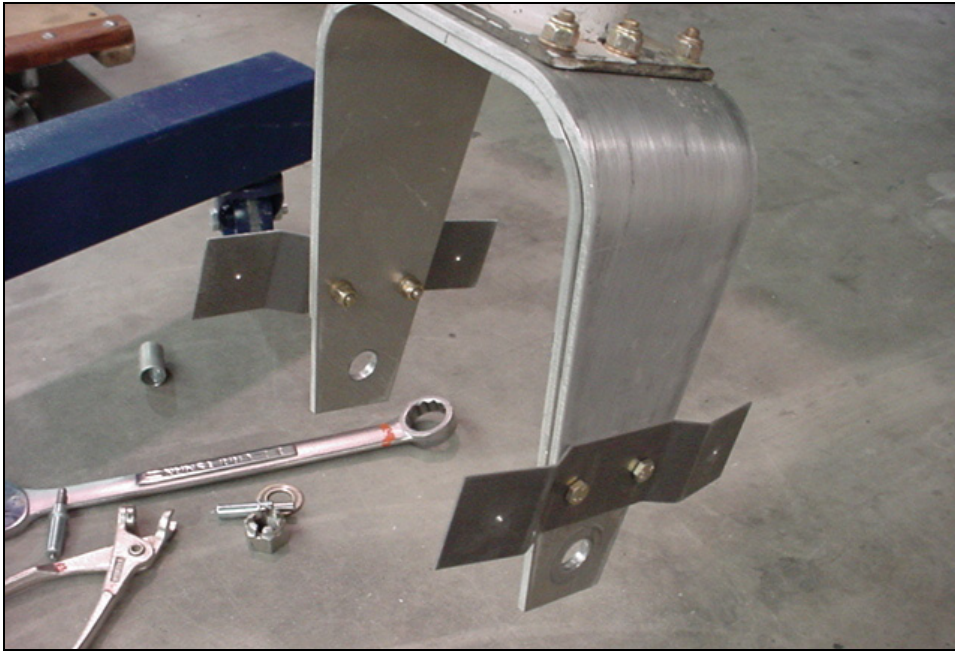


Center the bracket on the axle, back drill into the axle.

Tap the axle

Drill the 2 pilot holes in the brackets.

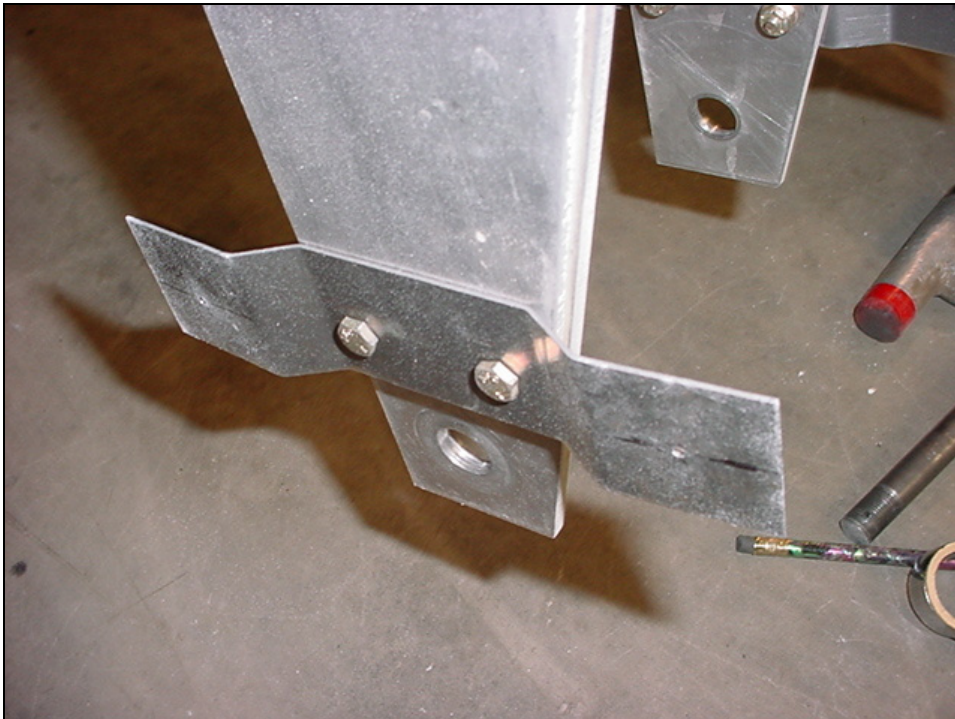
Open the pilot holes in the bracket to 3/16"
Install the nut plates on the bracket.



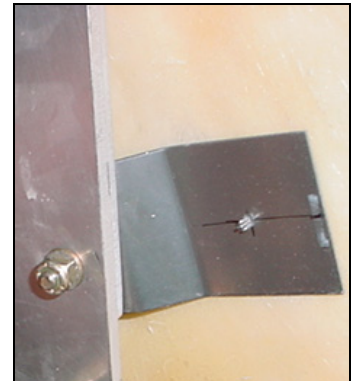
Location of the bolts through the fork doubler 6G1-5



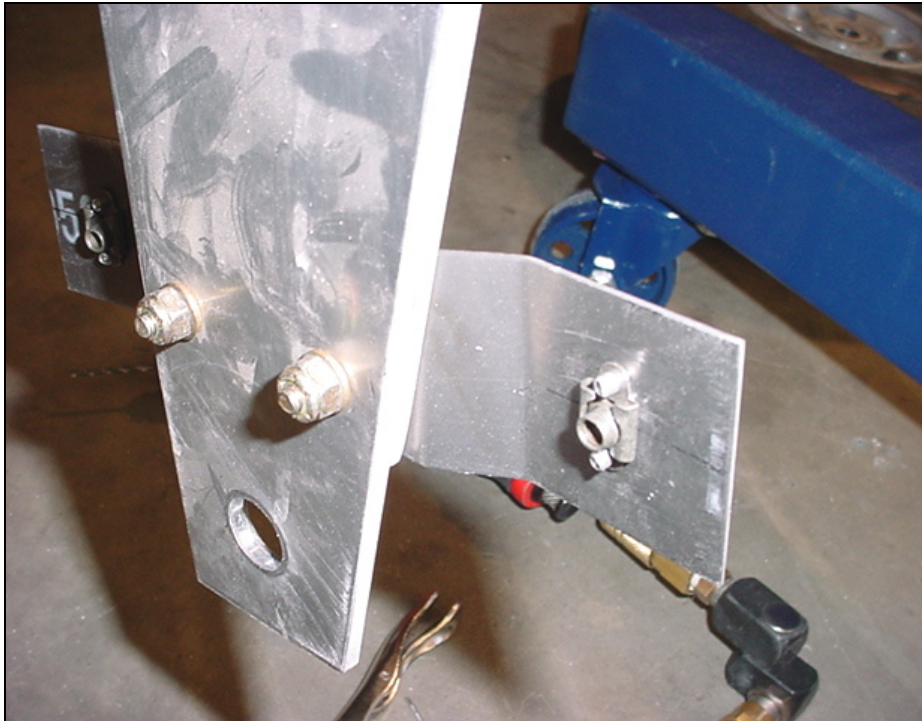
Check: the stem for the inner tube does not interfere with the location of the bolts at 70mm to the bottom of the wheel fork. If necessary install the nuts on the O/B side of the bracket and use a plastic cap instead of the yellow metal cap.



Right side: photo of outboard side of right bracket.



Viewed from the inboard side (left side)



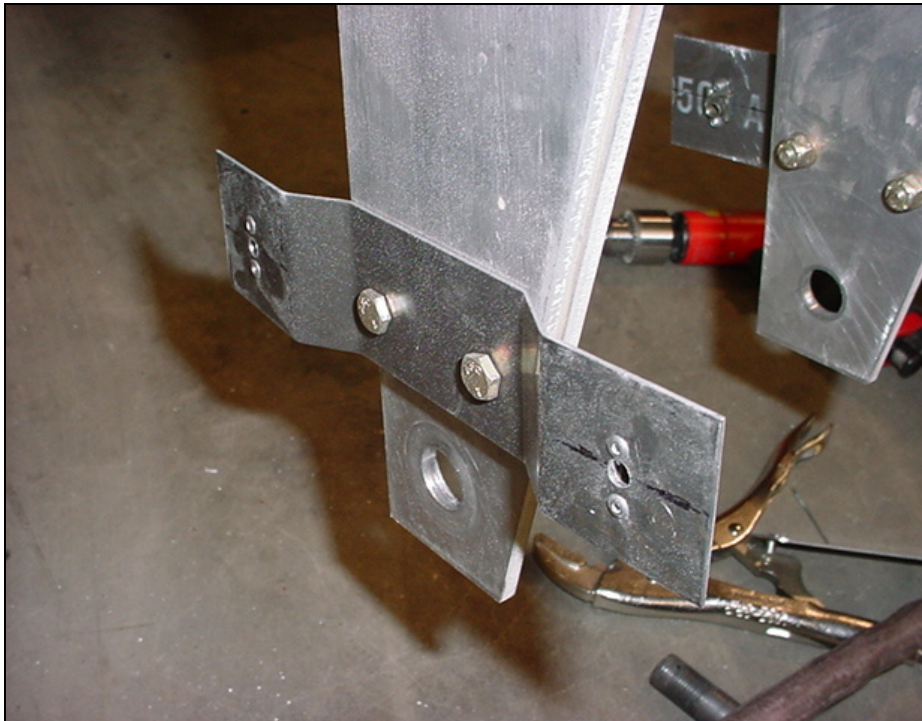
NOTE: 6-WFO-1-3
Revision 2

Changed 135 to 161 degrees
Changed 11 to 5mm

COMMENT: Revision 1 parts
can still be used: simply
flatten out the bend and
readjust the flanges in line
with each other.

Critical dimension: distance
across the left and right
brackets should equal the
width of the wheel fairing.
Approximately 170mm

Install the nutplates.



2 rivets A3



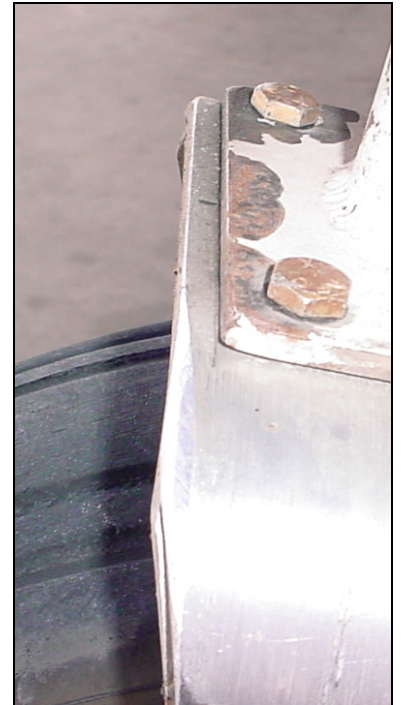
Note: middle hole = 1/4" hole
in the bracket.

REMARK: Oversize hole in
the bracket to allow
adjustment of the floating nut
plates.



File a radius on the along the front edge of the fork doubler

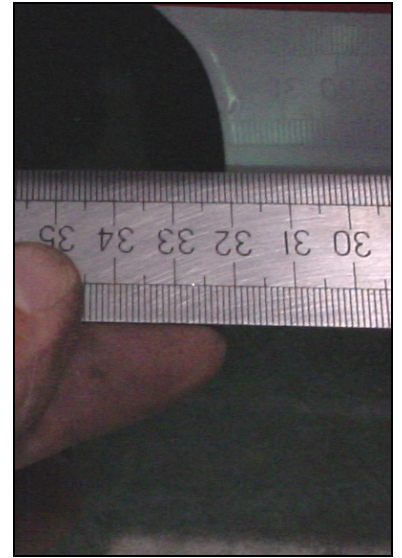
Install the 2 front bolts for the nose gear leg to the wheel fork with the nut on the bottom side.



Detail of left side, filed radius along edge of fork doubler.



Position a wheel fairing with the nose against a wall.



320mm to the front edge



Layout the front and rear edge of the cutout for the gear and calipers.

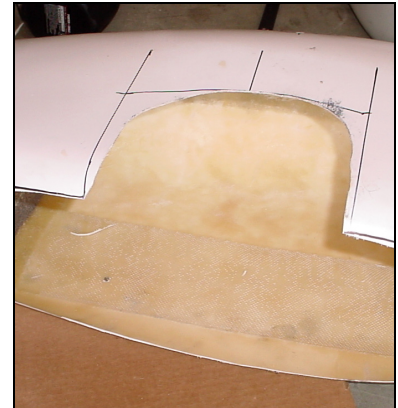


485mm to the aft edge



130mm to the top edge.

IMPORTANT: Photo of left wheel fairing. For the right wheel fairing the cutout is on the opposite side.



Radius the corners, see page 4 for installation on gear.

Use sheet metal snips the cut the fiberglass.
Best to trim a little, then see how it fits on the gear. Avoid trimming too much at once.