

Photo-Guide (ZE-2009-07)*

The following photo-guide is for educational purposes only. It is intended to assist owners and/or aircraft mechanics with the installation of elements from from 6Z-4G as part of Service Letter ZE-2009-07 for the <u>ULM version</u> of the Zenair CH 601 XL/650.

The methods, sequences and tools proposed in this guide are suggestions only. Other methods, techniques and/or tools may be used if the same (or better) results are achieved.

If variations and/or discrepancies are found between the photos and the drawings, the drawings take precedence and should be followed.

<u>A note about the parts:</u> Parts supplied in the Zenair kits are of correct material, have all the necessary bends (with grain in proper direction), and are of approximate size to ensure proper fit. Installer needs to fit and trim as necessary and file & finish all sharp edges and corners. Also, remember to de-burr all holes prior to final assembly. Application of Zinc chromate (or similar) is optional.

<u>Tools needed:</u> Drill, drill bits (#30 & #20), drill stop, center-punch and hammer, tin-snips, files, measuring tape, marker(s), clecos, cleco-pliers, clamps, vacuum cleaner (to clean up inside fuselage prior to final installation)...

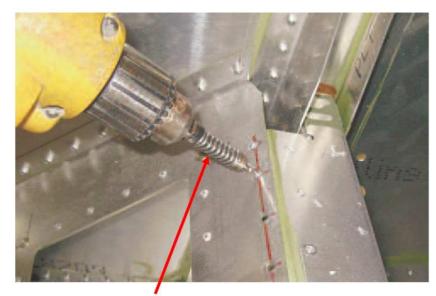
To better serve aircraft builders and owners everywhere, Zenair reserves the right to modify and/or update its photo-guides at any time and without notice. Check website for latest edition of guides.

ZODIAC	ZE-2009-07	Edition 1.0, (10-12-2009)	AIRFRAME UPGRADE
601 XL/650	*Drwg. 6Z-4G	<u>www.zenairulm.com</u>	Page 1 of 7.



Open the access panels underneath the seat cushions.

Remove the center console to drill out the top rivets on the center spar section (photo of cabin with dual stick option)

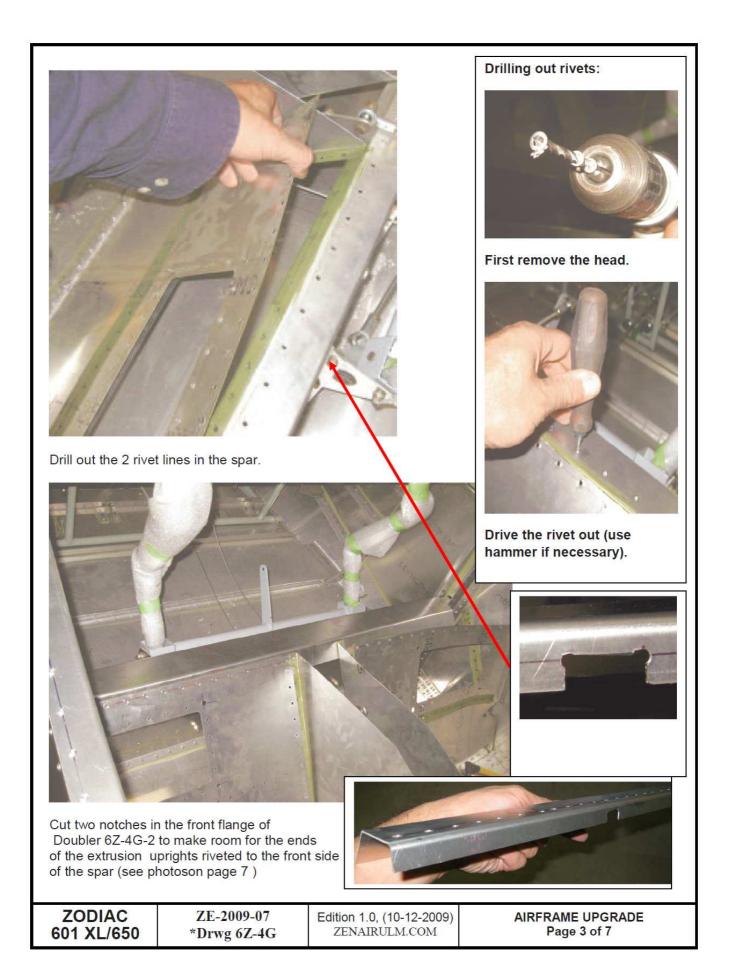




Drill stop

Install a drill stop on the drill bit. CAUTION: Do not let the drill bit touch the spar web.

ZODIAC	ZE-2009-07	Edition 1.0, (10-12-2009)	AIRFRAME UPGRADE
601 XL/650	*Drwg 6Z-4G	ZENAIRULM.COM	Page 2 of 7
001 XL/030	Ding 02-40		







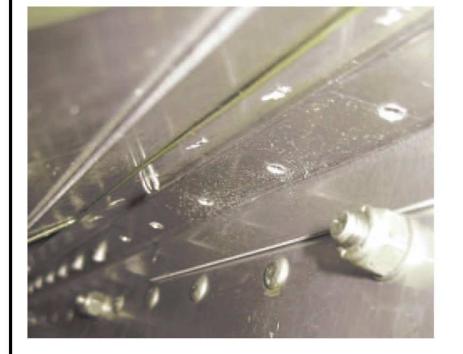




Seat front angle 6Z-4G-2

Position the angle underneath the top flange of the spar, hold it in place and drill down through the existing holes.

Photo looking up at the back side of the spar through the access panel. Drilled holes in the top flange of the seat front angle 6Z-4G-2



 ZODIAC
 ZE-2009-07
 Edition 1.0, (10-12-2009)
 AIRFRAME UPGRADE

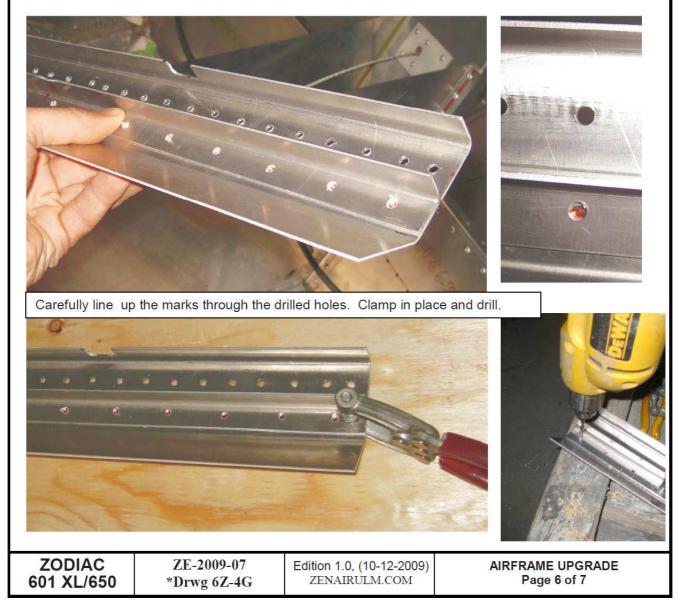
 601 XL/650
 *Drwg 6Z-4G
 ZENAIRULM.COM
 Page 5 of 7





Lay the angle on top of the doubler.

Remove the channel and check that the marks are visible.



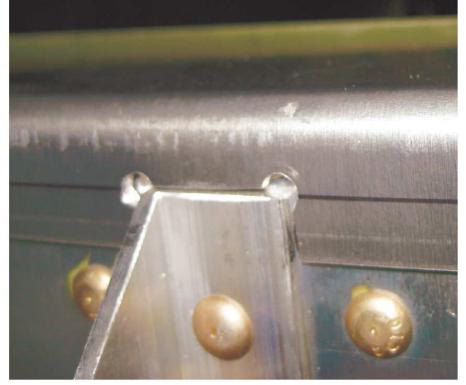




Cleco together.

A5 pitch 20, add a hole between the existing rivets.

Reinstall on the spar. Use a drill stop to drill through the existing holes in the seat into the doubler. See page 1 for drill stop info.





Notches in the front flange of the doubler 6Z-4G-1 to make room for the uprights 6W4-4 (extrusion to hold the front bearing for the torque tube).



Notch in the front flange of the doubler 6Z-4G-1 to make room for the end of extrusion upright riveted to the front side of the spar (for dual stick option).

Check that the bottom edge of the flange does not touch the AN4 bolts, if
 recessary use a half round file to file a relief notch.

ZODIAC	ZE-2009-07	Edition 1.0, (10-12-2009)	AIRFRAME UPGRADE	
601 XL/650	*Drwg 6Z-4G	ZENAIRULM.COM	Page 7 of 7	