

Second edition CH 650, August 2010

Revisions made to 1st edition August 2008 (included in second edition)

6-X-0 date Aug 10, 2010

Change 650 to 650 B
Added pages 6-W-11 spar parts
6-W-12 LAA balanced ailerons
6-MBO-1 (map box option)

6-W-00 date Aug 10, 2010

Part revision list

Change 650 to 650 B

6-X-1 date Aug 10, 2010

Change 650 to 650 B
Added rivet line for L angles in rear wing skin
Added recessed elevator trim tab
Add wing locker
Second edition March 2010
Technical data: Design load factor, change ultimate +6/-3 to LIMIT +4/-2 G
with flaps extended: positive +2G, Negative -0g
Design speed limitation: Va, changed from 103 to 95 Ref 650LS Revision 2 March 2010
Added Vc Design cruise speed 124MPH
Stall speed: Changed S1 to S

6-T-0 date 08/08

6-T-1 date 08/08

6-T-2 date 08/08

6-T-3 date 08/08

6-T-4 date 08/08

6-T-5 date 08/08

6-T-6 date Feb 25, 2010

Added optional L angle on the outboard side of the trim servo.

6-W-0 date Jan 19, 2010

Removed L angles between ribs – Added rivet line on wing skin for L angles between ribs

Add upgrade parts for rear channel 6W11-18, 6W11-19, 6W11-20

Added exploded view for aileron mass balance

6-W-00 date Jan 23, 2010

New page layout: Added new diagram with 3D view of right wing with L angles between ribs.
(deleted left bottom diagram)

Add L angles for Aileron Bellcrank support channel

Added L angles between rear ribs, riveted to top and bottom skins

Added 3D view to show nose ribs attachment to main spar.

Removed rivet line (top right)

6-W-1 date Jan 23, 2010

Bottom left diagram: deleted note: see 6-W-00 (moved note from 6-W-00 to 6-W-1)

6-W-2 date Jan 26, 2010

New page layout (moved gussets 65W to right side of page)

Add aileron ribs for LAA balance weight (6-W-12)

6-W-3 date June 7, 2010

New page layout: Moved parts 2 to 9 on new page 6-W-11

New parts 6W11-1, 6W11-9, 6W11-10

Solid rivets, AD6 to the end of extrusion 6W11-9

Removed note (bottom middle – instructions on which side to place the rivet head).

6-W-4 date June 23, 2010

New page layout (removed top right diagrams, removed bottom middle diagram)

6W4-5 Rev 1 changed 13.7 to 16.9mm, Qty =6 to 10

New part numbers: 6W11-12, 6W11-13, 6W11-15, 6W11-16, Shim 6W4-6

6W4-4 change quantity = 10

6-W-5 date Jan 26, 2010

Moved top right diagram from 6-W-7 to bottom right corner of page 6-W-5

6-W-6 date Feb 25, 2010

New page layout:

Added diagram to show cutout in rear rib flange RR#1 to RR#6

6W6-10 REV 1 changed $t=.025''$ to $t=.040''$,

side flange from 19mm to 40mm (also to right diagrams) dl=132

Added distances to L angles on rear ribs, measured from front flange to rivet center line:
Top 245, 200, 185 Bottom 210, 195, 175

6-W-7 date Feb 18, 2010

New page layout (moved top right diagram to drawing 6-W-5)
6W7-3 part deleted
Added new diagram for riveting of rear channel doubler 6W11-18, channel angle overlap 6W11-19 and aileron rod hole doubler 6W11-20
Bottom diagram : cutout to top flange for rear ribs, changes to the rib angle location for the nose ribs (added 6W11-1)

6-W-8 date Feb 24, 2010

Deleted OPTIONAL from L angles between rear ribs
Location of L angles: at rear rib #5, 525 top, 535 bottom, and at the wing tip 370 top and 350 bottom.
Added L angles for aileron support channel 6W6-10 detail shown on 6-W-9
Top left diagram: removed the number of rivets in nose and rear ribs.
Top left diagram: SPAR RIVET LINE, A5 PITCH 20 up to RR#5, A5 pitch 40 to tip

6-W-9 date Jan 23, 2010

New page layout
Added 3D diagram to show the L angles riveted to the aileron support channel 6W6-10
6W9-1, removed 5 pitch 15

6-W-10 date Jan23, 2010

New page layout
Added L angles riveted to aileron support channel 6W6-10 (top and middle diagram)

6-W-11 date June 7, 2010

New page: Wing Spar Parts

6-W-12 date Jan 25, 2010

New page: LAA BALANCED AILERONS

6-K-1 date 08/08

6-K-2 date 08/08

6-B-0 date Feb 23, 2010

Part number correction (top left) change 6B2-4 and 6B2-6 to 65B2-4 and 65B2-6
Added 65B13-4 and 65B13-5 and diagonal Z

6-B-1 date Feb 24, 2010

Z angles, change quantity from 6 to 8 (added diagonal Z angle on 6-B-15)

6-B-2 date Feb 23, 2010

Part number correction (bottom middle) change 6B2-4 and 6B2-6 to 65B2-4 and 65B2-6

6-B-3 date Aug 9, 2010

Top middle of page: removed "diagonal L 's on side skins are optional"

6-B-4 date Feb 25, 2010

Part number correction change 6B2-4 and 6B2-6 to 65B2-4 and 65B2-6 (middle and bottom left diagrams)

6-B-5 date 08/08

6-B-6 date Aug 9

Moved a crimp on the firewall up 20mm because it conflicts with a L angle. The 6th crimp from the bottom needs to move up 20mm. Change to 85 to 105, change 100 to 80 (dis between 6 and 7)

6-B-7 date 08/08

6-B-8 date 01/09

6-B-9 date 08/08

6-B-10 date Feb 25, 2010

Add new part: 6B10-5 (150x1020 t=.032"), bottom skin doubler A5 pitch 40
Middle diagram, changed 50 and 275 to 55 and 270

6-B-11 date 06/09

6-B-12 date Feb 23, 2010

Moved 65-B-12-6 to bottom middle of page.

6-B-13 date Feb 23, 2010

New page layout

6B13-1 Rev 1, change t=.63 to t=.125", change dl=63 to 65

Add rivets into front and rear uprights into center section spar web 6-W-4, 5 rivets A5

Added new parts: 6B13-3, seat angles 19x19 t=.040"

Added new parts 6B13-4 side doubler, 125x210x40 t=.063"

Added new parts 6B13-5 upright doubler 260x125 t=.032"

6-B-14 date Feb 23, 2010

Added Side doubler 6B13-4, A5 pitch 20 (bottom left diagram)

6-B-15 date Feb 24, 2010

Added Diagonal Z angle from bottom of front upright to top of vertical L angle. A4 pitch 30

Show 6B13-4 top right diagram, middle right diagram.

Show 6B10-5 (middle right diagram)

Show 6B13-3 (angles on the seat bottom 65-B-15-4)

6-B-16 date 12/08

6-B-17 date Feb 25, 2010

Added L angles to sides of rear torque tube bearing 6B17-1 (top middle diagram).

6-B-18 date Feb 23, 2010

Added 6B13-4 (top right diagram).

Added upright extrusions on center spar section.

6-B-19 date Feb 26, 2010

Removed bottom middle note

Added: 35mm from fuselage bottom to center line of control tube.

6-B-20 date 08/08

6-B-21 date Feb 25, 2010

New page layout, moved 65-B-21-1 to top left of page

Added 65-B-12-2 to bottom right diagram.

6-B-22 date 08/08

6-B-23 date 08/09

6-B-24 date 08/08

6-C-0 date Feb 26, 2010

Removed 65C3-5 (bottom left diagram)

6-C-1 date 08/08

6-C-2 date 08/08

6-C-3 date 12/08

6-C-4 date 08/08

6-C-5 date 08/08

6-C-6 date June 23

Part number correction change 6C3-1 to 6-C-3-11 (bottom left diagram), removed rear 6C-3-1

6-G-1 date 08/08

6-G-2 date 08/08

6-G-3 date 08/08

6-S-3 date Feb 22, 2010

New page layout (deleted top right diagram – Added bottom right diagram from 6-W-00, Added 3D view of left wing

Replaced AN5-16A with NAS 6205-23 (or equivalent to 160 to 180KPSI)

6-S-4 date 08/08

6-S-5 date Jan 23, 2010

New page layout

New parts: Aileron control stop 6S5-2 and 6S5-3

6-ATO-1 date Jan 26, 2010

Add L angles on each side of servo.

6-LLO-1 date 09/08

6-NSO-1 Date: 08/06

6-WFO-1 date 08/08

6-WLO-1 date Feb 1, 2010

6-WLO-1 rev 2 changed length from 410 to 390

Reposition piano hinge for wing locker

Added L angles to bottom skin (between rear ribs).

6-PH-1 date 08/08

6-LRO-1 date Jan 24, 2010

Show 6W11-9 spar extrusion (cutout for rear ribs)

6-MBO-1 date Jan 26, 2010

Map box option

6-TE-1 date 08/08

6-LR0-1 date Jan 24, 2010

Show 6W11-9 spar extrusion (cutout for rear ribs)

6-TE-1 date June 23, 2010

Added optional L angle on outboard side of servo

6-JE-1 date 08/08 Jabiru engine mount

6-CE-1 date 08/08

6-YE-1 date 08/08

6-YE-2 date 08/08

6-DS-1 to 6-DS-3 date 08/08

6-TD-1 to 6-TD-3 date 08/08