

**ZODIAC CH 601 XL**  
**Drawing list** April 6, 2004

2<sup>nd</sup> edition 4<sup>th</sup> revision of 04/04

**Summary of revisions from 12/03 to 04/04**

AIRFRAME

**6-X-0** DRAWING LIST **April 6,2004**

**6-X-1** **04/04** THREE VIEW

- 1) moved edition and revision to left side of page
- 2) Added rev. 1 edition 1 01/01, rev. 2 edition 1 02/01, rev 3 edition 1 04/02
- 3) 4<sup>th</sup> revision 2<sup>nd</sup> edition 04/04

**6-T-0** **06/03** TAIL EXPLODED VIEW

**6-T-1** **01/04** STABILIZER AIRFOIL

- 1) Top right diagram: Added more "+" to close the gap between ribs stations 160 & 480 (01/04)
- 2) 6T1-1 added flange height at front of rib 3mm, side flange is 18mm on 405mm (01/04)

**6-T-2** **03/04** STABILIZER ATTACHMENTS

- 1) bottom left diagram: re-drew middle ribs: rib flanges do not overlap spar flange (03/04)

**6-T-3** **06/03** ELEVATOR

**6-T-4** **12/03** VERTICAL TAIL RIBS

**6-T-5** **01/04** VERTICAL TAIL SKELETON

- 1) bottom left text; Ribs to Spar riveting, change 2 to 4 rivets in Nose rib (01/04)

**6-T-6** **02/03** RECESSED ELEVATOR TRIM TAB

**6-W-0** **03/04** EXPLODED VIEW

- 1) Added tie down ring 6W9-1 (03/04)

**6-W-00** **12/03** RIGHT WING ASSEMBLY

**6-W-1** **03/04** FLAPS

- 1) 6W1-4 clarification: supplied length of hinge = 7ft, trim to 1983mm (03/04)

**6-W-2** **03/04** AILERONS

- 1) 6W2-3, deleted 295mm (03/04)
- 2) 6W2-2 deleted 17 degrees (03/04)

**6-W-3** **05/03** OUTBOARD WING SPAR ASSEMBLY

**6-W-4** **01/04** CENTER WING SPAR

- 1) Right middle diagram: deleted the 3mm (spar attachment bolts, difference between rivet line on center section and outboard wing section) three places. Deleted the 5mm and 5.65mm shown middle diagram to the bottom of the spar cap. (01/04)
- 2) 6W4-4 top and bottom corner cutout added dimension: 20mm chamfer, (bottom left side view only – no changes to front view flange) 01/04

**6-W-5** **03/04** SPAR TIP / NOSE RIBS

- 1) 6W5-2 middle diagram: spell out reference line, show coordinate (0,0) at front of rib (03/04)

**6-W-6** **03/04** REAR RIBS

- 1) bottom middle diagram: rear flange on rear ribs: change 3deg close to 3.3deg closed (03/04)

- 6-W-7**      **03/04** REAR CHANNEL  
 1) bottom detail diagram RR7 and RR8, removed line in front of spar(03/04)  
 2) clarification: 6W7-1 rib layouts are on the web (03/04)
- 6-W-8**      **03/04** WING SKINS  
 1) Rear Channel is at 93.3 deg to ribs (change 93 to 93.3) (03/04)
- 6-W-9**      **01/04** TIEDOWN RING  
 1) Cutout for wing tip 6W8-3, added more points, deleted 1090 and aileron (01/04)  
 x=0-y=575  
 50-577  
 100-579  
 150-580  
 250-578  
 300-575  
 400-565  
 500-550  
 600-531  
 700-509  
 730-502  
 732-494
- 2) bottom skin 6W8-2, front coordinate is the bottom of the spar tip, change 365 to 353, the rear coordinate is the bottom of the rear channel, x=730, y=389 (01/04)
- 6-W-10**    **01/04** AILERON CONTROLS  
 1) top left diagram: part number correction, change 6B10-2 to 6W10-2 (01/04)
- 6-K-1**      **09/03** LEADING EDGE WING TANKS  
**6-K-2**      **03/03** CENTER CONSOLE/ FUEL FLOW DIAGRAMS/ GASCOLATOR  
**6-B-0**      **11/03** FUSELAGE EXPLODED VIEW  
**6-B-1**      **12/03** FUSELAGE BOTTOM SKIN H.T. FRAMES  
**6-B-2**      **10/03** REAR BOTTOM LONGERONS  
**6-B-3**      **10/03** REAR SIDE SKINS  
**6-B-4**      **10/03** REAR FUSELAGE RIVETING  
**6-B-5**      **09/03** REAR FUSELAGE ASSEMBLY
- 6-B-6**      **04/04** FIREWALL & STIFFENER  
 1) 6B6-4, hole "c" replace AN3-5A with AN3-6A (03/04)  
 2) 6B6-5, change 7 degrees to 11 degrees (angle between front of floor skin and longerons) (03/04)  
 3) 6B6-4 and 6B6-5 change 4130N to 4130 (04/04)
- 6-B-7**      **12/03** FIREWALL RIVETING
- 6-B-8**      **03/04** NOSE GEAR UPPER BEARING  
 1) 6B8-5 right middle diagram: tapered ends, change 30mm to 23mm (03/04)  
 2) 6B8-7 location of bungee pin, change 285 to 290 (03/04)
- 6-B-9**      **04/04** RUDDER PEDALS  
 1) bottom right diagram: rudder pedal neutral position: set the distance from the top of the rudder pedals to the firewall (measured parallel to cabin floor) equal to the distance measured from the firewall to the middle bolt in the Central Pedal Bearing 6B9-4 (03/04)  
 2) 6B9-1 top left diagram change 4130N to 4130 (04/04)

- 6-B-10**      **12/02** FRONT FLOOR SKIN  
**6-B-11**      **04/04** UPPER FRONT LONGERONS  
1) 6B11-4 delete 1" of threads on bolts, add ref to castle nut AN310-8 see 6-G-3 (03/04)  
2) 6B11-4 change 4130N t=.080" to STEEL t=.080" (04/04)
- 6-B-12**      **12/03** FUSELAGE BULKHEADS  
**6-B-13**      **12/02** WING JIG  
**6-B-14**      **03/04** JOINING FUSELAGE ASSEMBLED  
1) bottom left diagram: change "6B10-4 to 6B10-3" to "6B10-3 to 6B10-1" (03/04)  
2) top left diagram: delete 6B16-1 (baggage floor is not between longerons) (03/04)
- 6-B-15**      **06/03** FORWARD FUSELAGE STIFFENERS  
**6-B-16**      **03/04** SEAT BACK SUPPORT  
1) bottom left diagram: clarification: A5 pitch 30 in top flange of 6B16-5 and panel 6B5-1 (03/04)
- 6-B-17**      **04/04** CONTROL STICK  
1) 6B17-2 and 6B17-2 change (STEEL) to 4130 (04/04)
- 6-B-18**      **03/04** ARM REST / SEAT BELT  
1) Bottom right, part number correction: changed 6B16-6 to 6B18-6 (03/04)
- 6-B-19**      **04/04** FLAP CONTROLS  
1) 6B19-2 change length 90 to 70mm, adjustment to length, 70mm is measured to outboard surface of 1/8" plate (02/04)  
2) right middle diagram: Added text: 7 rivets A5 through top flange of 6B19-6 into 6B5-1 and 6B16-5 (02/04)  
3) bottom middle diagram: part number correction in text: change Bearing 6B19-6 to Bearing 6B19-5, 8B5-2 to 6B5-2 (02/04)  
4) 6B19-1 adjustment to length, 1000mm is measured to outboard surface of 1/8" plate instead of to inboard surface (2/04)  
5) Bottom middle diagram: draw hidden lines to show the ends of the tubes inside 6B19-3 (02/04)  
6) 6B19-1, 6B19-2, 6B19-3 change 4130N to STEEL t=.125" (04/04)  
7) 6B19-6 CHANGE 4130 t=.080" to STEEL t=.080" and 4130 t=1/8" to STEEL t=1/8" (04/04)
- 6-B-20**      **06/03** FRESH AIR VENT / FLAP CIRCUIT  
**6-B-21**      **01/03** FUSELAGE TOP SKIN  
**6-B-22**      **03/04** CABLE FAIRLEADS  
1) Top middle diagram: L angle support to channel, added 2 RIVETS A4 (03/04)
- 6-B-23**      **09/03** CONTROL CABLE ENDS  
**6-C-1**      **01/03** CANOPY HINGE  
**6-C-2**      **01/03** CANOPY SIDES  
**6-C-3**      **01/03** CANOPY FRAME  
**6-C-4**      **06/03** CANOPY RELEASE
- 6-G-1**      **04/04** NOSE GEAR STRUT ASSEMBLY  
1) 6G1-1, change 4130N to 4130 top plate and bungee retainer plate. (04/04)  
2) 6G1-1 bottom plate: 4130N hot roll (04/04)
- 6-G-2**      **04/04** NOSE GEAR BEARING  
1) 6G2-4 change STEEL to 4130 (04/04)

- 6-G-3**      **04/04** MAIN SPRING GEAR
  - 1) 6G3-2 change 4130N to 4130 plate (04/04)
  - 2) bottom diagram: step fairing: added piece of L angle 50mm in the I/B top corner of fairing and bottom skin 2 RIVETS A4 in each flange. (03/04)
- 6-S-2**      **03/04** INSTRUMENT PANEL LAYOUT
  - 1) repositioned flap switch from the middle to the left side just above the throttle (03/04)
- 6-S-3**      **03/04** WING ATTACHMENT, FLAP TEMPLATE
  - 1) bottom left diagram: deleted flap deflection template. Added flaps up stop 20x90 plastic fairlead material t=1/8" riveted to underside of top flange of rear channel (outboard portion of flap) (04/04)
  - 2) flap down deflection, max=30deg. (04/04)
- 6-S-4**      **03/04** INSTALLATION OF STABILIZER
  - 1) standardize text size (03/04)
- 6-S-5**      **10/03** RUDDER ATTACHMENT

#### **POWERPLANT**

- 6-E-3**      **04/04** ENGINE MOUNT ROTAX 912S
  - 1) 6E3-2 tray change 4130N to 4130, gussets change 4130N to 4130 plate, firewall attachment plates change 4130N to 4130 (04/04)
- 6-E-5**      **06/03** DUAL THROTTLE
- 6-E-6**      **12/02** OIL TANK BRACKETS
- 6-JE-1**     **04/04** JABIRU 3300 ENGINE MOUNT
  - 1) 6JE1-1 Gusset, change 4130N to 4130 (04/04)
  - 2) 6JE1-1 firewall attachment, change 4130N to 4130 (04/04)
- 6-CE-1**     **04/04** CONTINENTAL 0-200 STRAIGHT ENGINE MOUNT
  - 1) Top middle diagram: distance on engine mount to fit engine (do not fit engine), change vertical dimension 5-1/4" to 6.00" change 6-5/16" to 5.56" (CG is below the Ref Longerons) (12/03)
  - 2) 6CE1-1 Gusset bottom left diagram, change 4130N to 4130 (04/04)
  - 3) 6CE1-1 Gusset top middle diagram, change 4130N to 4130 (04/04)
  - 4) 6CE1-1 firewall attachment, change 4130N to 4130 (04/04)
- 6-YE-1**     **04/04** LYCOMING 0-235 CONICAL ENGINE MOUNT
  - 1) top middle diagram: on engine mount to fit engine (do not fit engine), change horizontal distance from 5.96" to .75 (two places) Vertical distance, change 4.50" to 6.20", change 4.58" to 3.36" (12/03)
  - 2) 6YE1-1 Gusset, change 4130N to 4130 (04/04)
  - 3) 6YE1-1 firewall attachment, change 4130N to 4130 (04/04)
- 6-YE-2**     **04/04** LYCOMING 0-235 DYNAFOCAL ENGINE MOUNT
  - 1) 6YE2-1 Gusset, change 4130N to 4130 (04/04)

#### **OPTIONS**

- 6-ATO-1**    **02/04** XL AILERON TRIM TAB OPTION
  - 1) 6ATO-1-3, change length 565 to 560mm (12/03)
  - 2) Middle diagram, cutout in channel 6-ATO-1-3, change 15mm to 20mm, 12mm to 18 change 6-ATO-1-2 to 6-ATO-1-3 (depth = 18mm cutout in bottom flange and elevator skin) (02/04)

**6-LLO-1 11/03** LANDING / TAXI LIGHT OPTION

**6-NSO-1 12/03** NAV/STROBE LIGHT OPTION

- 1) delete "the" from text (03/04)

**6-WFO-1 04/04** WHEEL FAIRING OPTION

- 1) 6-WFO-1-1 to 6-WFO-1-2 change STEEL to 4130 (04/04)

**6-WLO-1 03/04** WING LOCKER OPTION

- 1) 6-WLO-1-1 position of L angles, 50mm from edge to rivet line (03/04)
- 2) 6-WLO-1-2 install piano hinge with spin towards the top (03/04)

**6-WKO-1 04/03** AUXILIARY FUEL TANKS OPTION

#### CONFIGURATION OPTIONS

**6-PH-1 01/04** PIANO HINGED AILERONS

- 1) Top right diagram: change 500 to 493 (measured along front edge of skin, last rib to end of aileron) (01/04)

**6-DS-1 04/04** DUAL STICK CONFIGURATION: MODIFIED TORQUE TUBE

- 1) bottom right box, added: "6B17-3 installed on 6DS1-5" (01/04)
- 2) 6DS1-4 change 4130N to 4130 (04/04)
- 3) 6DS1-5 change 4130N to 4130 (04/04)

**6-DS-2 04/04** DUAL STICK CONFIGURATION: CONTROL CONNECTION

- 1) 6DS2-2, square change  $t=.040"$  to  $t=.080"$ , ENDS change  $t=.090"$  to  $t=.080"$  (01/04)
- 2) 6DS2-2 bolt welded to the ends, AN3-6A, Horn change 26 to 28.5mm (01/04)
- 3) top left diagram: grommet in 6DS2-1, change AN931-4-7 to AN931-A8-13 (1/2"ID grommet with 1/8") (03/04)
- 4) 6DS2-2 change 4130N to 4130 (04/04)

**6-DS-3 01/04** DUAL STICK CONFIGURATION: CONTROL COLUMNS

- 1) 6DS3-1, change .058" wall to .049" wall (01/04)

**6-TD-1 04/04** TAIL DRAGGER CONFIGURATION: TAIL SPRING PICK UP

- 1) 6TD1-1 change 4130N to 4130 (04/04)
- 2) 6TD1-2 change 4130N to 4130 (04/04)

**6-TD-2 03/04** TAIL DRAGGER CONFIGURATION: LOWER FRONT LONGERONS

- 1) 6TD2-31 & 32 change qty to 2 (length=1700 combined length before cutting into 6TD2-31 and 6TD2-32) (01/04)
- 2) Delete 6TD2-8, same as 6B6-5 with 11 degrees (03/04)

**6-TD-3 04/04** TAIL DRAGGER CONFIGURATION: GEAR UPRIGHTS

- 1) middle diagram: Added A5 PITCH 20, along aft and front end of cutout for 6TD3-1 through 6B11-2 and 6B10-1 (01/04)
- 2) 6TD3-1 delete 25mm of threads for castle nuts AN310-8 (03/04)
- 3) 6TD3-1 change 4130N to 4130 (04/04)

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