



A Mahindra Aerospace Company

PO Box 881, Morwell, Victoria 3840, Australia

Ph + 61 (0) 3 5172 1200

Fax + 61 (0) 3 5172 1201

www.gippsaero.com

SB-GA8-2011-69

Issue 3

OPTIONAL

Service Bulletin

Subject:

Modification of Co-pilot Control Column

Applicability:

All GA8 and GA8 TC320 aircraft models up to serial number 170.

Amendments:

1. Initial Issue
2. Service Bulletin changed from procedure for removal of the co-pilot control column and installation of rudder pedal cover plate, to modification of co-pilot control column.
3. Limiting of applicability up to aircraft 170 as modification is production standard since then.

Background:

In order to make the removal/installation of co-pilot control column easier, this Service Bulletin provides the procedure for how to modify the co-pilot torque tube.

Compliance:

For applicable aircraft, this optional Service Bulletin may be incorporated at the owner's discretion

Weight and Balance:

This modification reduces the co-pilot control column weight by 0.2 kg (0.447 lbs) at 516 mm (20.3 inches) aft of datum

Approval:

This modification has been approved pursuant to Regulation CASR 21.095

Parts:

Nil

Parts Availability:

New parts can be obtained directly from GippsAero.

Tel.: +61 (0) 3 5172 1200

Fax.: +61 (0) 3 5172 1201

Email: spares@gippsaero.com

Labour:

2 hours should be allocated for the incorporation of this Service Bulletin.

Warranty:

Not applicable.

Procedure:

NOTE:

The procedure contained herein shall be used together with Figure 1 and Figure 2.

1. Loosen and remove the Screws (1), Screws (2) and then remove the Control Column Top Cover (3) and Control Column Cover (4);
2. Remove the Split Pins (5) and loosen and remove the Clevis Bolts (6), Nuts (7), Washers (8) and Bushings (9) to disconnect the Dual Control Aileron Link Rod (10) from the right hand aileron operating cable and right hand control column;

NOTE:

Cable tension can be relieved to allow the disconnection/connection of the right hand aileron operation cable by applying full left aileron control input on the pilot control column.

3. Remove the forward inboard floor access panels to gain access to the left and right hand control column bearing block attachment bolts and nuts;
4. Loosen and remove the Bolts (11), Washers (12) and Nuts (13) and remove the four Half Bearing Blocks (14);
5. Loosen and remove the Bolts (15), Nuts (16) and Washers (17);
6. Disconnect the co-pilot PTT loom (if installed);
7. Remove the right hand control column;
8. Measure the co-pilot torque tube (18) from the joining flange (19) up to 2.5 inches and then cut the remaining tube as per indicated in Figure 2;
9. Prime the cut area with a mixture of Durepon P14, code 410-33226, mixing ratio = 4 and Durepon P14, code 980-50259, mixing ratio = 1;
10. After the drying time of 2 hours, place the right hand control column back to the original assembly;
11. Re-install the four Half Bearing Blocks (14) by using the original hardware and torqueing the Bolts (11) to 70 in.lb;
12. Re-install the forward inboard floor access panel;
13. Re-install the Dual Control Aileron Link Rod (10) to the right hand aileron operating cable by using original hardware;
14. Carry out a duplicate inspection of all disturbed flight control connection to ensure correct installation, fastener safety locking and system operation.

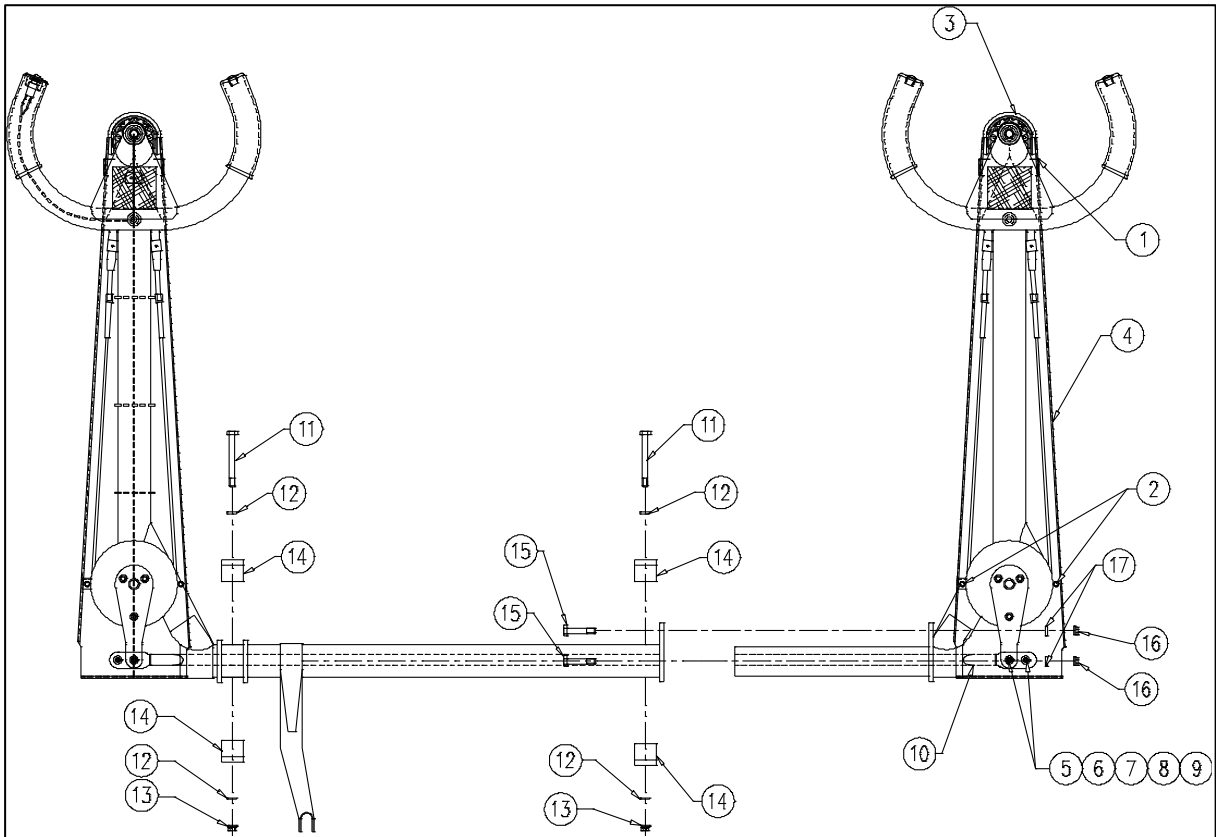


Figure 1 – Dual Control Column Removal

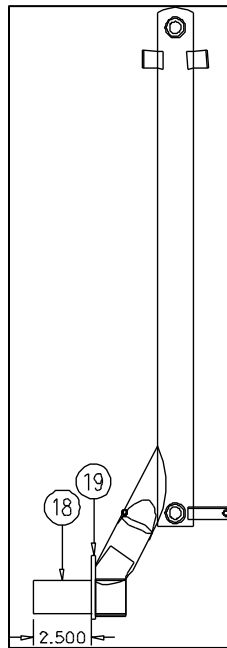


Figure 2 – Co-pilot torque tube modified dimension

Documentation:

Update the aircraft log book to reflect incorporation of this Service Bulletin.

Record weight and balance data in Alterations to Empty Weight and Empty Centre of Gravity log into Section 6 of Flight Manual.

Continuing Airworthiness:

No additional continuing airworthiness actions are required as part of the implementation of this Service Bulletin.

Compliance Notice:

Complete the Document Compliance Notice and return to GippsAero by mail, fax or email.

DOCUMENT COMPLIANCE NOTICE



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Document:

SB-GA8-2011-69

Issue 3

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2011-69, Issue 3 has been incorporated in the above aircraft.

Date: _____

Signed

Print Name: _____

Please post or fax this compliance notice to:

GippsAero
Attn: Technical Services
P.O. Box 881
Morwell Victoria 3840
Australia
Fax.: +61 3 5172 1201