



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-GA8-2015-126

Issue 1

MANDATORY

Service Bulletin

Subject:

Inspection of the Crankcase Breather Tube

Applicability:

All GA8 & GA8-TC 320 aircraft up to and including serial number GA8-TC 320-15-212

Amendments:

Issue 1: Initial issue. Ref GAE11-1578

Background:

An instance of Crankcase Breather Tube blockage due to icing has occurred during cold weather operations. All GA8 and GA8-TC aircraft require an inspection of the breather tube to ensure the bypass hole has been included at manufacture.

This Service Bulletin instructs the operators where to look for the bypass hole (relief aperture) and make sure it has been included at manufacture and is unobstructed. This Service Bulletin also addresses where and how a bypass hole should be included if required.

Compliance:

The requirements of this Service Bulletin shall be accomplished before the next flight. If an absence of a bypass hole is found then this should be rectified before any further flights.

Weight and Balance:

Nil

Approval:

This Service Bulletin has been approved pursuant to Regulation 21.095 of CASR (1998).

Parts:

The following parts are to be inspected to accomplish this Service Bulletin.

PART No.	DESCRIPTION	QTY	Remarks
GA8-717301-011	(GA8) Breather Tube Assembly	1	Inspect for blockages and Bypass Hole. Figure 1
GA8-71312-011	(GA8-TC 320) Breather Tube Assembly	1	Inspect for blockages and Bypass Hole. Figure 2

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:

1 man hour should be allocated for completing the work detailed in this Service Bulletin.

Warranty:

Aircraft under warranty may claim the direct cost of carrying out the requirements of this Service Bulletin via GippsAero Customer Service.

Tel: +61 (0)3 5172 1200

Fax: +61 (0)3 5172 1201

Email: warranty@gippsaero.com

Accomplishment Instructions:

NOTE:

Ensure the aircraft is prepared for maintenance and that appropriate safety precautions are taken when performing work outlined in this Service Bulletin.

Unless otherwise specified, reference to the GA8/GA8-TC 320 Service Manual as well as FAA AC43.13-1B & FAA AC43.13-2B should be made when carrying out the procedure prescribed in this Service Bulletin. In case of discrepancy between the Service Manual and the AC, the Service Manual takes precedence.

1. Remove the engine cowls as required in accordance with the applicable Service Manual.
2. Identify the installed location of the Crankcase Breather Tube as shown in Figure 1. Perform a visual inspection of the Tube and determine if a bypass hole exists. If the bypass hole does exist, check to ensure that the Breather Tube and bypass hole are clear of obstructions and fill out the compliance note document at the end of this Service Bulletin. If no bypass hole exists, proceed to Step 3.
3. Using a 0.250" diameter drill, drill a bypass hole into the Breather Tube approximately 8.33" from the bottom of the tube as indicated in Figure 3. The hole should face forward and be distorted slightly (fluted) using a 1/4" pry bar (refer to Figure 4) to indent the upper portion of the hole inwards and extrude the bottom portion of the hole outwards.
4. Deburr hole to finish. Remove any tooling.
5. Clean all swarf from working area and re-assemble engine cowls.

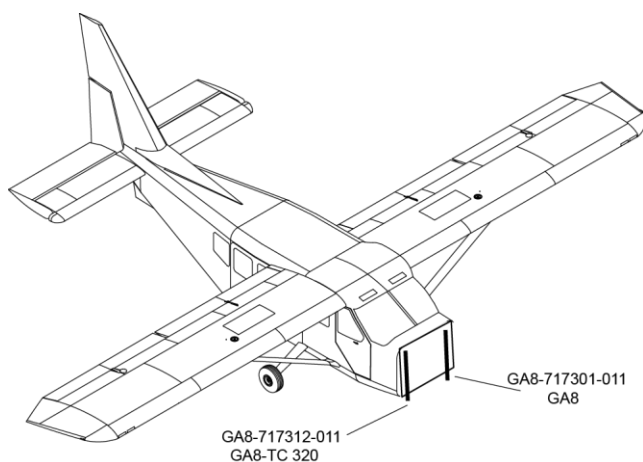
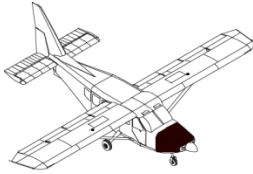
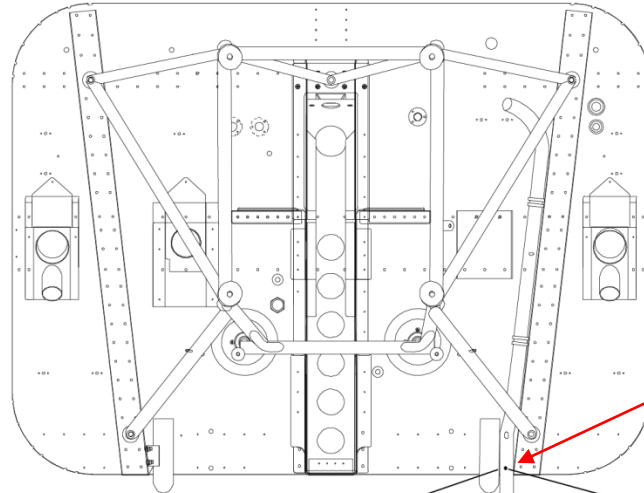


Figure 1: Breather Tube Locations



Looking aft at Firewall GA8



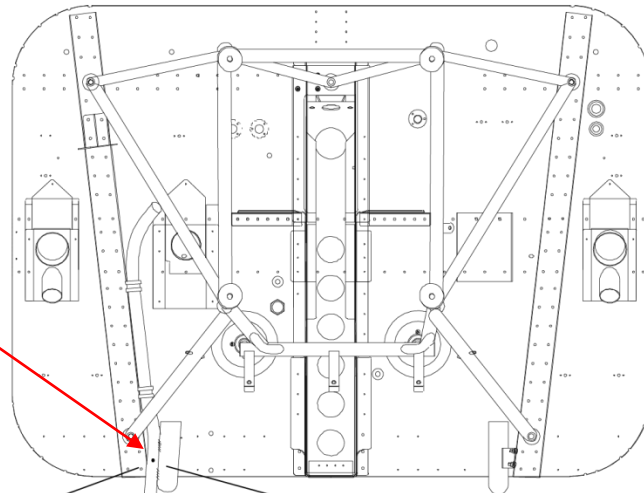
Drill 1/4" hole

Weld between Hot Air Outlet and Breather Tube

Bypass Hole (Flute)

Oil Breather Tube - Assembly P/N 717301-011

Looking aft at Firewall GA8-TC 320



Drill 1/4" Hole

Bypass Hole (Flute)

Oil Breather Tube - Assembly P/N 717312-011

Weld between Hot Air Outlet and Breather Tube

Figure 2: Area of Bypass Holes (Flute)

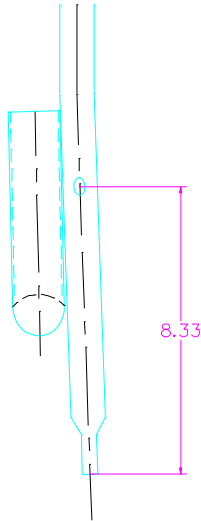


Figure 3: Bypass hole positioning

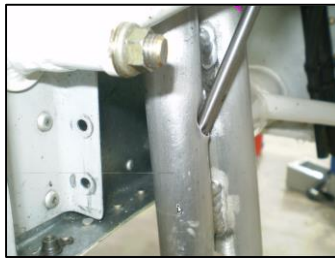


Figure 4: Hole flute detail

Documentation:

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

Continuing Airworthiness:

During subsequent engine inspections, verify that the Crankcase Breather Tube and bypass hole is checked for any blockages. All other instructions already specified in the aircraft Service Manual continue to be applicable.

Future issues of the Service Manual will contain clarified information as contained in this Service Bulletin.

Compliance Notice:

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

DOCUMENT COMPLIANCE NOTICE



A Mahindra Aerospace Company

Document:

SB-GA8-2015-126

Issue 1

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2015-126 Issue 1 has been incorporated in the above aircraft.

Date of Incorporation: _____

Signed

Print Name: _____

Please post, fax or email this compliance notice to:

GippsAero Technical Services
P.O. Box 881
Morwell Victoria 3840
Australia
Fax.: +61 03 5172 1201
Email: techpubs@gippsaero.com