

Service Bulletin

Subject:

Alternate Airbox Upgrade.

Applicability:

GA8 serial numbers GA8-00-004 through GA8-07-114 with throttle cable not mounted on existing airbox. As a prerequisite, this Service Bulletin requires prior completion of Service Bulletin SB-GA8-2004-15 Issue 3.

Amendments:

Nil (initial issue).

Background:

This Service Bulletin documents the installation procedure for an improved alternate airbox and associated connections to aircraft induction system and alternate airbox controls.

Compliance:

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

Weight and Balance:

The replacement of the existing airbox with the new airbox results in a weight reduction of 0.5 kg (1.1 lbs) at an arm of 96 mm (3.8 inches) forward of the firewall.

Approval:

The technical aspects of this Service Bulletin have been approved under a CASA Authorisation.

Parts:

| Item | Part Number | Description | Qty |
|------|----------------|----------------------------|-------|
| 1 | GA8-716013-13 | ALT AIR CABLE | 1 |
| 2 | GA8-716041-11 | ALTERNATE AIRBOX ASSEMBLY | 1 |
| 3 | GA8-716051-101 | AIRBOX TRUNK | 1 |
| 4 | AN3-3A | BOLT | 2 |
| 5 | AN3-6A | BOLT | 3 |
| 6 | AN525-10R6 | SCREW | 1 |
| 7 | AN960-10L | WASHER | 6 |
| 8 | AN970-3 | PENNY WASHER | 3 |
| 9 | MS21919WDG3 | CABLE CLAMP | 1 |
| 10 | MS21042-3 | NUT | 4 |
| 11 | HAS-048P | HOSE CLAMP | 2 |
| 12 | HAS-064P | HOSE CLAMP | 4 |
| 13 | LW15569 | HOSE – FUEL INJECTOR INLET | 1 |
| 14 | MIL-H-6000 1/4 | HOSE | 18.5” |
| 15 | SCAT-12 | HOSE | 18” |
| 16 | SCAT-16 | HOSE | 4” |

Parts Availability:

Parts can be obtained directly from Gippsland Aeronautics.

Tel.: +61 03 5172 1208

Fax.: +61 03 5172 1237

Email: spares@gippsaero.com

Labour:

Approximately 5 hours should be allocated for completing the upgrade procedure detailed in this Service Bulletin.

Warranty:

Gippsland Aeronautics participation is limited to the supply of parts, including freight, at the owner's expense.

Instructions:

1. Installation

1. Remove existing air intake plenum assembly.
2. Remove the injector adapter clamps.
3. Clean sealant from injector body.
4. Remove alternate air cable from the control console.
5. Remove upper mounting of muffler cable hanging assembly from the exhaust hanger bracket.
6. Remove the exhaust hanger bracket and packer attached to the cabin heat valve assembly, and retain.
7. Drill out the 5/32" (3.97mm) rivet, directly above where the exhaust hanger bracket was (see Figure 1) and open out to suit AN3 bolt.
8. Place the new alternate airbox assembly over cabin heat valve assembly flange. Centrally align the 3 slotted holes. Refer to Figure 1.

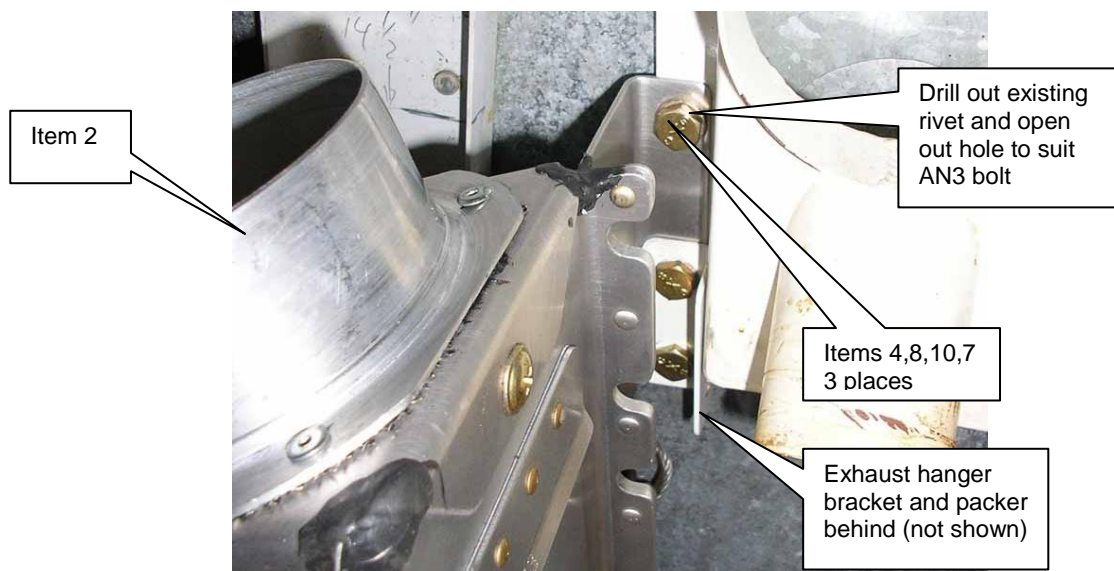


Figure 1

- While in place, mark out 2 holes in the side of the firewall channel and drill to suit AN3 bolt. Refer to Figure 2.

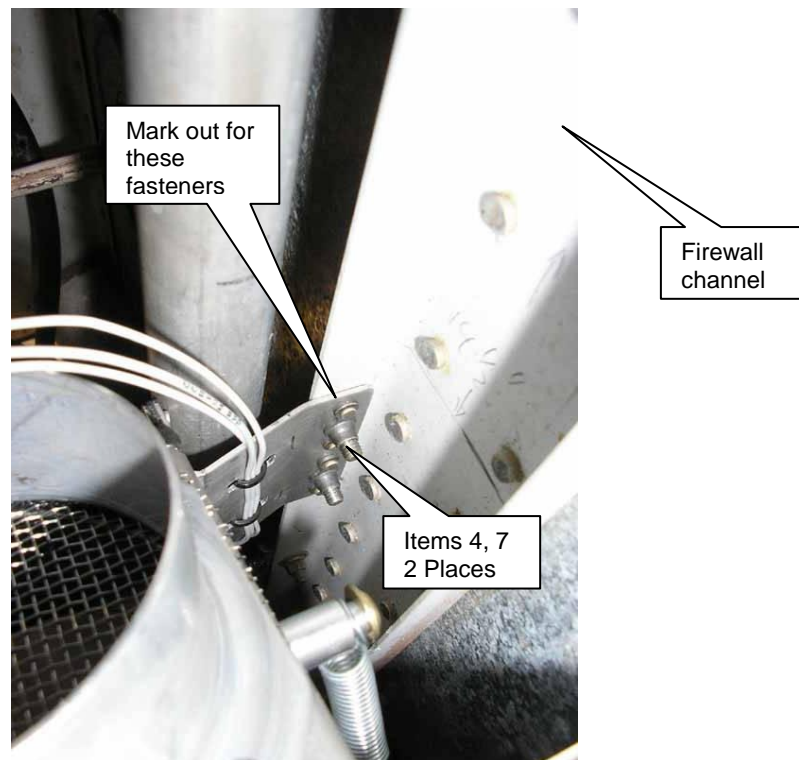


Figure 2

- Remove the air intake plenum drain hose (3 sections and Tee piece), and replace with item 14 (one length of MIL-H-6000 ¼ hose 18.5 inches long).
- Attach the new alternate airbox assembly with retained exhaust hanger bracket, and spacer, using AN hardware supplied in kit (see Figure 1). Fit three AN970-3 washers and three MS21042-3 10-32 reduced hex nuts on the inside of the firewall.
- Fit the new airbox trunk to the injector with hose, P/N LW-15569 (the cut out in hose LW-15569 goes over the injector inlet). Fit the other end of trunk to the air filter assembly with scat 16 hose. Refer to Figure 3.

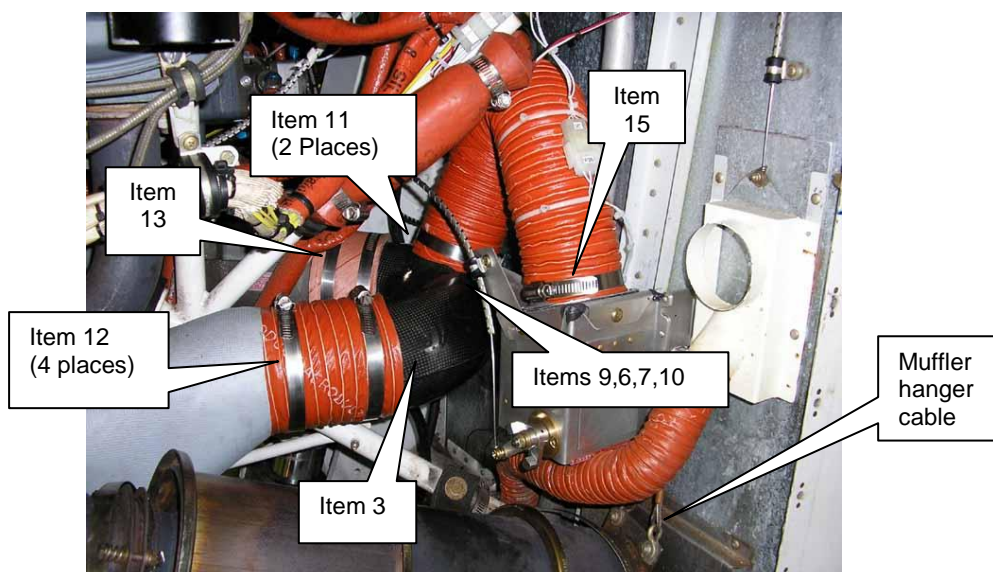


Figure 3

13. Install clamps and tighten.
14. Install scot 12 hose (18 inches long) from the alternate airbox to the airbox trunk and fit clamps and tighten.
15. Re-attach the muffler hanger cable assembly.
16. Install alternate air cable, (item1). Push the alternate air knob in fully. Rotate the Flap Rocker Arm fully anti-clockwise when viewed looking at the airbox in the aft direction. The Flap Actuator Arm is to be set 0.040" +/- 0.005" from the upper stop of the Flap Rocker Arm as shown in Figure 4. Adjustments can be made by loosening the Cable Clamp and sliding the cable out through the Clamp. Secure the cable with the Cable Clamp following any adjustment. Cycle the alternate air control from closed to open several times to ensure correct operation.

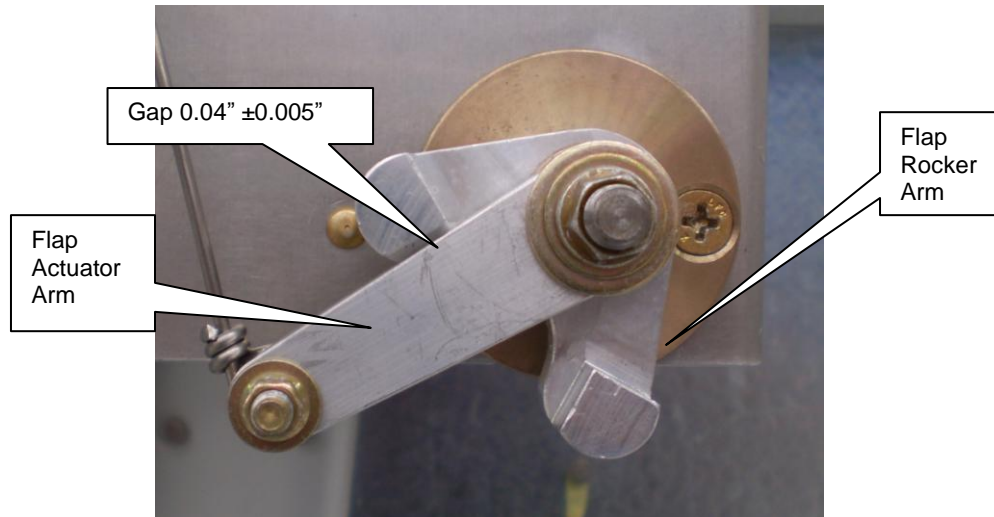


Figure 4

17. Plug in and secure the alternate air warning connectors. Confirm that the alternate air lamp is operational.

Documentation:

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

Compliance Notice:

Complete the Document Compliance Notice and return to Gippsland Aeronautics by fax or mail.

DOCUMENT COMPLIANCE NOTICE



Document: Service Bulletin SB-GA8-2008-41,
Issue 1

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2008-41, Issue 1 has been incorporated in the above aircraft.

Date: _____

Signed

On behalf of (*company name*): _____

Please post, fax or email this compliance notice to:

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