

# Service Bulletin

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**Subject:**

Ventilation System Blower Fan Upgrade.

**Applicability:**

All GA8 serial numbers GA8-00-004 through GA8-05-075.

**Amendments:**

Introduced new part number for high speed blower fan assembly.

**Background:**

Previously, to reduce electrical load, the ventilation system blower fan has been installed using the low and medium speeds available for the fan motor only, with the wire for high speed operation not connected. Operational experience has shown that increased performance from the ventilation system blower fan is desirable, particularly in hot climates.

This optional Service Bulletin documents the procedure for modifying the aircraft ventilation system to use the medium and high speeds of the fan motor.

**Compliance:**

For applicable aircraft this optional Service Bulletin should be incorporated if increased performance from the ventilation system blower fan is desirable.

For aircraft serial numbers GA8-05-076 and subsequent this change has been incorporated during production.

**Weight and Balance:**

Negligible effect on weight and balance.

**Approval:**

This Service Bulletin has been approved pursuant to Regulation 35 of CAR1988.

## Parts:

Item	P/N	Description	Qty
1	M22759/16-14-9	Wire, 14 Gauge	A/R
2	350690-1	Contact Pin	2
3	350689-1	Contact Socket	3
4	W23X1AG-15	Circuit Breaker 15A	1
5	FIQC2-6.4DG-15	Terminal Lug	2

## Parts Availability:

New parts can be obtained directly from Gippsland Aeronautics.

Tel.: +61 03 5172 1200

Fax.: +61 03 5172 1201

Email: spares@gippsaero.com

## Instructions:

### 1. Installation

#### **NOTE:**

*All wiring is to be in accordance with FAA Advisory Circular 43.13-1B Chapter 11 section 8.*

1. Cut away the heat shrink tube on the wiring that runs from the blower fan motor to plug P38 sufficient to gain access to the unused orange wire and trim the orange wire to a suitable length for installation in plug P38.

#### **NOTE:**

*If the orange wire is not long enough to reach plug P38 it may be extended using a suitable length of 14 Gauge wire.*

2. Remove all wires from plug P38 and slide a length of heat shrink over the wires, sufficient to replace all heat shrink cut away in step 1.
3. Install a contact pin, item 2 on the orange wire and insert in position 1 of plug P38.
4. Insert the red wire in position 2 of plug P38.
5. Insert the black wire in position 3 of plug P38.
6. Ensuring the now unused yellow wire is insulated, shrink the heat shrink tubing with the yellow wire folded back inside.

7. Re identify the blower fan as GA8-212002-13.
8. Replace the AIR CON circuit breaker with a 15A circuit breaker, item 4.
9. Wire HC1A18 connects the AIR CON circuit breaker with pin 8 of J104. Remove wire HC1A18. Manufacture a 14 gauge wire labelled HC1A14 with identical connectors to wire HC1A18 and install to replace wire HC1A18.
10. Wire HC1B18 connects pin 8 of P104 to the + terminal of the blower fan switch. Disconnect and insulate both ends of wire HC1B18. Manufacture a 14 gauge wire labelled HC1B14 with identical connectors to wire HC1B18 and install to replace wire HC1B18.
11. Wire HC1C18 connects terminal 3 of the blower fan switch to pin 1 of J38. Disconnect and insulate both ends of HC1C18. Manufacture a 14 gauge wire labelled HC1C14 with identical connectors to wire HC1B18 and install to replace wire HC1C18.

**NOTE:**

*Wire HC1C14 need not follow the same route as wire HC1C18 as this would require significant disassembly of the aircraft. For convenience, routing wire HC1C14 to the tailcone area via the trim indicator cable conduit is recommended.*

12. Wire HC1D18N connects pin 3 of J38 to the aircraft structure (earth). Remove wire HC1D18N. Manufacture a 14 gauge wire labelled HC1D14N with identical connectors to wire HC1D18N and install to replace wire HC1D18N, ensuring a good electrical connection is made to the aircraft structure.

**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/mail.

## DOCUMENT COMPLIANCE NOTICE



Document: Service Bulletin SB-GA8-2005-18

Aircraft Serial Number: GA8-\_\_\_\_\_

I/we have incorporated Service Bulletin SB-GA8-2005-18 for the above aircraft.

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Signed

Print name \_\_\_\_\_

Please post or fax this compliance notice to:

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