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SB-GA8-2024-212

Issue 1

OPTIONAL

Service Bulletin

1 Subject:

Engine Bay Flexible Hose Life.

2 Applicability:

This Service Bulletin is applicable to the aircraft identified in Table 1, subject to the limitations of Table 2.

Table 1: Applicability

AIRCRAFT	SERIAL NUMBER(s)
GA8	This Service Bulletin is applicable to all GA8 aircraft.
GA8-TC 320	This Service Bulletin is applicable to all GA8 TC 320 aircraft.

Table 2: Applicability Limitations

LIMITATIONS
1. This Service Bulletin is limited to Parker Hannifin Stratoflex© 124-Series PTFE hoses that are listed in Section 13.1, the aircraft IPC or other data approved by GippsAero, or are supplied by GippsAero or the engine OEM.
2. Engine and hose manufacturers Service Bulletins, Service Instructions etc. issued in response to hose reliability issues must be carefully assessed for applicability. In the event that a life published by the engine OEM or an equipment manufacturer is lower than the limit detailed in Service Manual Supplement C05-96-98, that data takes precedence.
3. This Service Bulletin is limited to aircraft operated in accordance with all applicable GippsAero data, including the use of the specified fuels and other fluids. This supplement may not be used for aircraft using MOGAS or a fuel containing alcohol.

3 Amendments:

Issue 1: Initial Issue. Refer to GippsAero Job number GAE11-2330.

4 Background:

This Service Bulletin provides approval for an increase to the calendar life of fuel and oil flexible hoses forward of firewall. Additional background information is included in Service Manual Supplement, C05-96-98 Flexible Hose Life Extension.

5 Compliance:

The accomplishment instructions contained within this Service Bulletin are optional and may be incorporated at the Operator's, Owner's or Maintenance Provider's discretion.

6 Weight and Balance:

This Service Bulletin has no effect on the aircraft's weight and balance.

7 Electrical Load Analysis (ELA):

This Service Bulletin has no effect on the aircraft's ELA.

8 Approval:

The airframe and/or electrical system modification/repair described in this Service Bulletin has been approved pursuant to Australian Civil Aviation Safety Regulation 21.095 (1998). GippsAero Reference GAE11#2330.

9 Parts:

No parts are required to accomplish this Service Bulletin.

10 Parts Availability:

New parts can be obtained directly from GippsAero.

Tel: +61 (0)3 5172 1200

Fax: +61 (0)3 5172 1201

Email: PARTS@gippsaero.com.au

11 Labour:

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

4 man hours should be allocated for completing the inspections detailed in Service Manual Supplement C05-96-98.

12 Warranty:

This is an optional modification. Installation warranty is not applicable, however component warranties are provided by the respective manufacturers.

13 Accomplishment Instructions:

WARNING:

IT IS THE RESPONSIBILITY OF ALL PERSONNEL TO ENSURE WORK HEALTH AND SAFETY REQUIREMENTS ARE MET AT ALL TIMES. ALL PERSONNEL MUST COMPLY WITH ALL WORK HEALTH AND SAFETY REQUIREMENTS AS DEFINED OR RECOMMENDED BY:

- EQUIPMENT OEM INSTALLATION AND OPERATION MANUALS;
- AIRCRAFT MAINTENANCE AND OPERATION MANUALS;
- ASSOCIATED AIRCRAFT MODIFICATION INSTRUCTIONS;
- RELEVANT NAA REGULATIONS AND ADVISORY DOCUMENTATION;
- ORGANISATION MANUALS, INCLUDING NAA ENDORSED OPERATIONAL AND MAINTENANCE MANUALS; AND
- RELEVANT LOCAL, STATE AND FEDERAL GOVERNMENT REQUIREMENTS.

WARNING:

READ THE APPLICABLE MATERIAL SAFETY DATA SHEET (MSDS) FOR ANY MATERIAL/CONSUMABLE USED DURING THE ACCOMPLISHMENT OF THIS SERVICE BULLETIN AND EMPLOY ANY RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE) CONTAINED THEREIN.

WARNING:

ALL WORK SPECIFIED IN THIS SERVICE BULLETIN SHALL BE CARRIED OUT BY APPROPRIATELY QUALIFIED PERSONNEL

NOTE:

Read all the applicable instructions prior to initiating any work.

The installer must ensure this design change is compatible with configuration of the aircraft.

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 and FAA Advisory Circular (AC) 43.13-1B should be made when carrying out the procedures prescribed in this Service Bulletin.

When carrying out work outlined by this Service Bulletin, care is to be taken to ensure damage to surrounding structure and installations does not occur.

Unless stated otherwise, hardware removed during the procedure below is to be inspected and re-used if serviceable.

13.1 Hose Identification

1. Parker Hannifin Stratoflex® 124-Series PTFE hoses carry “Parker” branding and a stainless-steel Identification band (Figure 1). The identification band will be marked with the “S” logo and the Stratoflex® part number (Figure 2). 124-Series PTFE hoses have part numbers which begin with “124”.



Figure 1: External Hose Marking

P/No. beginning with "124..."

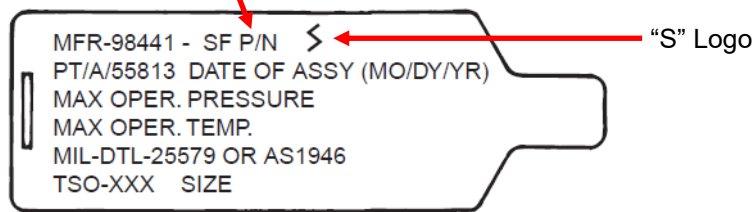


Figure 2: Identification Band

Table 3: GA8 and GA8-TC 320 Engine Fuel and Oil Hose Part Numbers

GA8 Fuel and Oil Hose Part Numbers	
Description	GA Part Number
Pressure to Cooler Oil Line	GA8-792011-111
Cooler to Cooler Oil Line	GA8-792011-113
Backcase to Cooler Oil Line	GA8-792011-115
Firewall FWD Oil Line	GA8-792011-121
Firewall to Fuel Pump Inlet	GA8-282012-111
Fuel Pump to Fuel Injector	GA8-282012-113
Firewall Fuel Pressure Pump Outlet	GA8-282012-121
For GA8 Aircraft Incorporating Service Bulletin SB-GA8-2013-100	
Fuel Pump to Fuel Servo	GA8-282012-125 (422G00011)
Fuel Servo to Fuel Flow Transducer	GA8-282012-127 (422G00008)
Fuel Flow Transducer to Fuel Divider	GA8-282012-129 (422G00009)
Fuel Servo to Firewall	GA8-282012-131 (422G00010)
GA8-TC 320 Fuel and Oil Hose Part Numbers	
Pressure to Cooler Oil Line	GA8-792011-111
Cooler to Cooler Oil Line	GA8-792011-125
Backcase to Cooler Oil Line	GA8-792011-127
Firewall FWD Oil Line	GA8-792011-129
Port A Oil Line	GA8-792011-131
Port B Oil Line	GA8-792011-133
Fuel Pump to Transducer	GA8-282012-115
Transducer to Fuel Injector	GA8-282012-117
Firewall to Fuel Pump - Turbo	GA8-282012-119
Firewall Fuel Pressure Pump Outlet	GA8-282012-123
For GA8-TC 320 Aircraft Incorporating Service Bulletin SB-GA8-2013-100	
Fuel Pump to Fuel Servo	GA8-282012-133
Fuel Servo to Fuel Flow Transducer	GA8-282012-135 (422G00012)
Fuel Flow Transducer to Fuel Divider	GA8-282012-137 (422G00013)
Fuel Servo to Firewall	GA8-282012-139 (422G00014)
For GA8 and GA8-TC 320 Aircraft Incorporating Service Bulletin SB-GA8-2015-136	
Port A Oil Line - SB-GA8-2015-136	GA8-792011-135
Port B Oil Line - SB-GA8-2015-136	GA8-792011-137
Superseded Part Numbers	
Fuel Pump to Fuel Servo	422G00015

13.2 Inspections

1. Inspect the aircraft as required by Service Manual Supplement, C05-96-98 Flexible Hose Life Extension.

WARNING:

THE MAINTAINER IS RESPONSIBLE FOR CORRECTLY COMPLETING THE INSPECTIONS AND DETERMINING THE AIRWORTHINESS OF THE HOSES. OPERATION WITH UN-AIRWORTHY HOSES MAY RESULT IN PERSONAL INJURY OR DEATH.

14 Documentation:

Update aircraft logbook to reflect incorporation of this Service Bulletin.

Insert Service Manual Supplement, C05-96-98 Flexible Hose Life Extension, Initial Issue (or later approved amendment) into the aircraft's Service Manual.

15 Continuing Airworthiness:

Instructions for Continued Airworthiness are contained in Service Manual Supplement, C05-96-98 Flexible Hose Life Extension.

16 Compliance Notice:

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

DOCUMENT COMPLIANCE NOTICE



Document:

SB-GA8-2024-212

Issue 1

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2024-212, Issue 1 has been incorporated in the above aircraft.

Date of Incorporation: _____

Signed

Print Name: _____

If this Service Bulletin requires any inspections be carried out, describe the result of these inspections:

Please post, fax or email this compliance notice to:

GippsAero Technical Services
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