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SB-GA8-2009-57

Issue 2

OPTIONAL

Service Bulletin

Subject: Flap and Aileron Arm Replacement.

Applicability:

All GA8 serial numbers.

Amendments:

Issue 1: Initial Issue

Issue 2: Change to kit number SB-2009-57-5, item 1 Part Number corrected to GA8-572011-17. Incorporating the change of the Company name and logo to GippsAero and removal of the Not For Public Release Notice.

Background:

This Service Bulletin documents the procedure for replacement of the flap and aileron drop arms on the GA8 Airvan. Arms may be replaced on an individual basis or as a complete set as required.

Compliance:

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

Weight and Balance:

There is negligible effect on weight and balance.

Approval:

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

Parts:

Item	Part Number	Description	Qty
Kit SB-GA8-2009-57-1 Flap Arm Rib 3 (LH or RH)			
1	GA8-572011-11	Flap Arm Ribs 3 and 9	1
2	GA8-571021-91	Inspection Panel	2
3	GA8-571021-93	Inspection Hole Doubler	2
4	MS27039-0812	Screw	10
5	MS21042-08	Nut	10

Item	Part Number	Description	Qty
6	AN960-8	Washer	40
7	A6195-6Z1D	Anchor Nut	12
8	6 x 1/2 PTA	Screw	12
9	NAS1515H06L	Washer	12
10	NAS1097AD3-3	Rivet	36
11	Sikaflex-227	Sealant	AR
12	Duralac	Corrosion Inhibiter	AR
Kit SB-GA8-2009-57-2 Flap Arm Rib 6 (LH or RH)			
1	GA8-572011-13	Flap Arm Rib 6	1
2	MS27039-0812	Screw	10
3	MS21042-08	Nut	10
4	AN960-8	Washer	40
5	Sikaflex-227	Sealant	AR
6	Duralac	Corrosion Inhibiter	AR
Kit SB-GA8-2009-57-3 Flap Arm Rib 9 (LH or RH)			
1	GA8-572011-11	Flap Arm Ribs 3 and 9	1
2	GA8-571021-91	Inspection Panel	1
3	GA8-571021-93	Inspection Hole Doubler	1
4	MS27039-0812	Screw	10
5	MS21042-08	Nut	10
6	AN960-8	Washer	40
7	A6195-6Z1D	Anchor Nut	6
8	6 x 1/2 PTA	Screw	6
9	NAS151H06L	Washer	6
10	NAS1097AD3-3	Rivet	18
11	Sikaflex-227	Sealant	AR
12	Duralac	Corrosion Inhibiter	AR
Kit SB-GA8-2009-57-4 Aileron Arm Rib 12 or 19 (LH or RH)			
1	GA8-572011-15	Aileron Arm Ribs 12 and 19	1
2	GA8-571021-91	Inspection Panel	1
3	GA8-571021-93	Inspection Hole Doubler	1
4	MS27039-0812	Screw	10
5	MS21042-08	Nut	10
6	AN960-8	Washer	40
7	A6195-6Z1D	Anchor Nut	6
8	6 x 1/2 PTA	Screw	6

Item	Part Number	Description	Qty
9	NAS151H06L	Washer	6
10	NAS1097AD3-3	Rivet	18
11	Sikaflex-227	Sealant	AR
12	Duralac	Corrosion Inhibiter	AR
Kit SB-GA8-2009-57-5 Aileron Arm Rib 16 (LH or RH)			
1	GA8-572011-17	Aileron Arm Rib 16	1
2	GA8-571021-91	Inspection Panel	1
3	GA8-571021-93	Inspection Hole Doubler	1
4	MS27039-0812	Screw	10
5	MS21042-08	Nut	10
6	AN960-08	Washer	40
7	A6195-6Z1D	Anchor Nut	6
8	6 x 1/2 PTA	Screw	6
9	NAS151H06L	Washer	6
10	NAS1097AD3-3	Rivet	18
11	Sikaflex-227	Sealant	AR
12	Duralac	Corrosion Inhibiter	AR

Parts Availability:

New parts can be obtained directly from GippsAero.

Tel.: +61 03 5172 1200

Fax.: +61 03 5172 1201

Email: spares@GippsAero.com

Labour:

Approximately 8.0 hours per arm should be allocated for completing the work detailed in this Service Bulletin.

Warranty:

Not Applicable.

Instructions:

NOTE

This Service Bulletin should be read in conjunction with AC43-1B & 2A.

- (a) Remove the affected flap or aileron from the aircraft as required in accordance with the GA8 Service Manual.
- (b) Cut four inch diameter access holes in the lower wing skin as required at five locations (indicated as hatched) in Figure 1 to the typical dimensions shown in Figure 2.

NOTE

Do not roll/flare edges of access hole before drilling ribs.

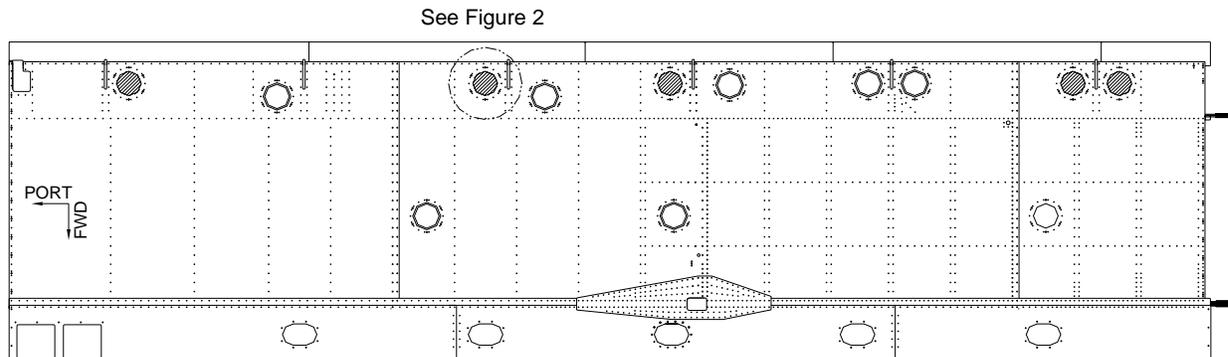


Figure 1

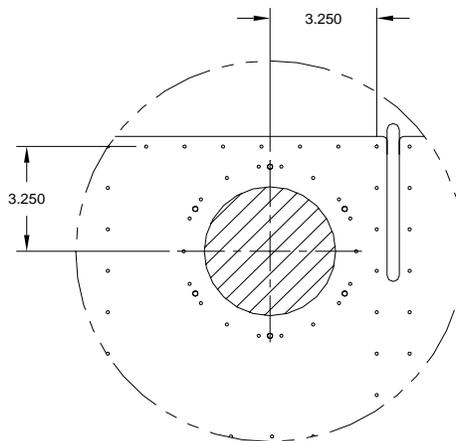


Figure 2

- (c) Remove existing sealant from and around drop arm.
- (d) Remove existing drop arm by carefully drilling out rivets.
- (e) Back drill replacement drop arms from existing drop arms to 4.1 mm diameter.

Clamp new drop arm into position and sighting through the flight control hinge bolts use a string line to ensure that the replacement drop arms align with original parts. Drop Arm should be replaced individually (ie: one at a time) to preserve alignment of the control surfaces.

- (g) Clear holes in rib to 4.1 mm diameter.
- (h) Install each replacement drop arm in the original location using ten MS27039-0812 structural screws and MS21042-08 nuts. Apply Duralac to shank of screws. Use one AN960-8 washer under the head of each screw and three AN960-08 washers under each nut. A typical drop arm replacement installation is shown in Figure 3.



Figure 3

- (i) Seal around where each drop arm exits the wing through the lower skin using Sikaflex-227 sealant.
- (j) Roll the edges of the additional access hole using a nylon rolling wheel (such as P/N TP326-4).
- (k) For each additional access hole, hold the flat side of a GA8-571021-93 doubler against the lower skin aligned centrally with the hole and back drill all holes from the doubler into the lower skin.
- (l) Make a slit in each access hole doubler after back drilling into the lower skin so that it may be inserted into the additional access holes.
- (m) Install each doubler nested onto the inside of the lower wing skin using six NAS1097AD3-3 rivets and install six A6195-6Z1D anchor nuts in each doubler using NAS1097AD3-3 rivets through the lower wing skin.
- (n) Drill hole for bonding lead and install as required.
- (o) Touch up paint as required.
- (p) Install GA8-571021-91 inspection panels over the additional access holes using 6 x 1/2 PTA screws and NAS1515H06L washers.
- (q) Repeat for each affected drop arm as required.
- (r) Reinstall flaps and ailerons in accordance with the GA8 Service Manual.

Documentation:

Update aircraft log book to reflect incorporation of this Service Bulletin. Include detail as to which arms were replaced.

Compliance Notice:

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

DOCUMENT COMPLIANCE NOTICE



Publication:SB-GA-2009-57-2

Issue Date:06/09/10

Page: 6

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2009-57 Issue 2 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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To help trace which drop arms are being replaced. Would you please indicate which arms are being removed. Thank you

Flap 1L	Flap 2L	Flap 3L	Aileron 1L	Aileron 2L	Aileron 3L
Flap 1R	Flap 2R	Flap 3R	Aileron 1R	Aileron 2R	Aileron 3R