

Service Bulletin

Subject:

Alternative three blade propeller installation

Applicability:

This Service Bulletin is applicable to the aircraft identified in Table 1.

Table 1 – Applicability

AIRCRAFT	SERIAL NUMBER(s)
GA8	<p>This Service Bulletin is applicable to all GA8 aircraft.</p> <p>Written authorisation to install this optional service bulletin must be obtained from GippsAero before installation.</p> <p>The following S/No. are authorised* by this Service Bulletin: GA8-02-012, GA8-02-023, GA8-02-028, GA8-04-046, GA8-04-047, GA8-04-053, GA8-04-055, GA8-05-088, GA8-06-097, GA8-06-099, GA8-06-105, GA8-07-114, GA8-07-115, GA8-07-116, GA8-07-119, GA8-08-141, GA8-08-143, GA8-11-147, GA8-11-160, GA8-12-171, GA8-12-176, GA8-12-179, GA8-12-180, GA8-12-184, GA8-13-190, GA8-13-193, GA8-13-195, GA8-13-196, GA8-13-197, GA8-13-199, GA8-14-201, GA8-14-202, GA8-14-203, GA8-14-204, GA8-14-206, GA8-15-208, GA8-15-209, GA8-15-210, GA8-15-211, GA8-15-212, GA8-15-214, GA8-15-220, GA8-15-222, GA8-16-227, GA8-16-228, GA8-16-230, GA8-16-236, GA8-17-240, GA8-17-244, GA8-18-248.</p>

* For Issue 34 and onwards, an authorisation letter from GippsAero allowing the installation of this Service Bulletin to the aircraft serial number is required for new installations.

Prerequisites:

For serial numbers GA8-00-004 through GA8-08-142, Service Bulletin SB-GA8-2009-61 at latest issue must be incorporated.

Amendments:

- Issue 28: Aircraft GA8-17-244 added to applicability. See GAE12#2370.
- Issue 29: Aircraft GA8-17-240 added to applicability. See GAE12#2435.
- Issue 30: Aircraft GA8-03-028 added to applicability. See GAE12#2449.
- Issue 31: Aircraft GA8-18-248 added to applicability. See GAE12#2500.
- Issue 32: Aircraft GA8-04-047 added to applicability. See GAE12#2585.
- Issue 33: Aircraft GA8-02-023 added to applicability. See GAE12#2621.
- Issue 34: Aircraft GA8-04-053 added to applicability. Document format updated. See GAE11#2797.

Background:

The existing GippsAero GA8 Airvan is offered with an optional three blade Hartzell HC-C3YR-1RF/F8068 constant speed propeller (FAA TC number P25EA). The three blade propeller provides a reduction in propeller noise and improved ground clearance.

Compliance:

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

Weight and Balance:

Incorporation of this Service Bulletin adds 24.9 lbs (11.3 kg) at -47.9 in (-1217 mm) as calculated below:

			Weight (lb)	Arm (in)	Index (in-lb)
Three Blade	Propeller	HC-C3YR-1RF/F8068	78.0	-48.0	-3744.0
	Spinner	470G00006 (C3575-P)	4.2	-50.0	-210.0
	Governor	470G00004 (S-1-47)	3.1	-39.4	-122.1
Two Blade	Propeller	HC-C2YR-1BF/F8475R	-52.0	-48.0	2496.0
	Spinner	470G00002 (2298-2P)	-5.3	-50.0	265.0
	Governor	470G00001 (D20893-26)	-3.1	-39.4	122.1
Total			24.9	-47.9	-1193.0

The aircraft Load Data Sheet must be updated and reissued before the aircraft is returned to service.

Approval:

This Service Bulletin has been approved in accordance with the requirements of Australian Civil Aviation Safety Regulation 21.095 (1998).

Parts:

Item	Part Number	Description	Qty
1	C01-04-81 <u>OR</u> C01-04-125	FLIGHT MANUAL SUPPLEMENT (CASA) <u>OR</u> FLIGHT MANUAL SUPPLEMENT (FAA)	1
2	C01-04-79 ¹	FLIGHT MANUAL SUPPLEMENT	1
3	C05-96-08 <u>OR</u> C05-96-34	SERVICE MANUAL SUPPLEMENT (CASA) <u>OR</u> SERVICE MANUAL SUPPLEMENT (FAA)	1
4	GA8-771013-15 <u>OR</u> GA8-771013-9	TACHOMETER (CASA) <u>OR</u> TACHOMETER (FAA)	1
5	HC-C3YR-1RF/F8068	PROPELLER ASSY	1
6	470G00006 (C3575-P)	SPINNER ASSY	1
7	MS20995-C32	SAFETY LOCK WIRE	AR
8	470G00004 (S-1-47)	HARTZELL GOVERNOR	1
9	GA8-612021-21	GOVERNOR CABLE ADAPTOR	1
10	GA8-112011-329 ²	LEFT THROTTLE QUADRANT PLACARD	1
11	GA8-112011-331 ²	RIGHT THROTTLE QUADRANT PLACARD	1
12	31C-17	STUD	4

¹ For aircraft incorporating SB-GA8-2011-66 Part A "Increased Gross Weight for GA8"

² For aircraft with Flight Manual C01-01-01 or C01-01-03.

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

Labour:

8 hours should be allocated to the incorporation of this Service Bulletin.

Warranty:

Not applicable.

Installation:

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:

- AIRCRAFT MAINTENANCE AND OPERATION MANUALS;
- 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 CONSUMABLE USED DURING THE ACCOMPLISHMENT OF THIS SERVICE BULLETIN AND EMPLOY ANY RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE) CONTAINED THEREIN.

NOTE:

Unless otherwise specified, reference to the GA8 or 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. In case of a discrepancy between the Service Manual and the AC, the Service Manual takes precedence.

NOTE:

Read all the applicable instructions prior to initiating any work.

NOTE:

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

1. Remove three screws securing the under-dash kick panel and remove to gain access to the rear of the instrument panel.
2. Replace the existing tachometer with the new tachometer P/N GA8-771013-15 (CASA) OR GA8-771013-9 (FAA).
3. Reinstall the under-dash kick panel.
4. Remove the existing pitch stop (P/N GA8-761021-63) and throttle quadrant placards and install new placards as shown below.³

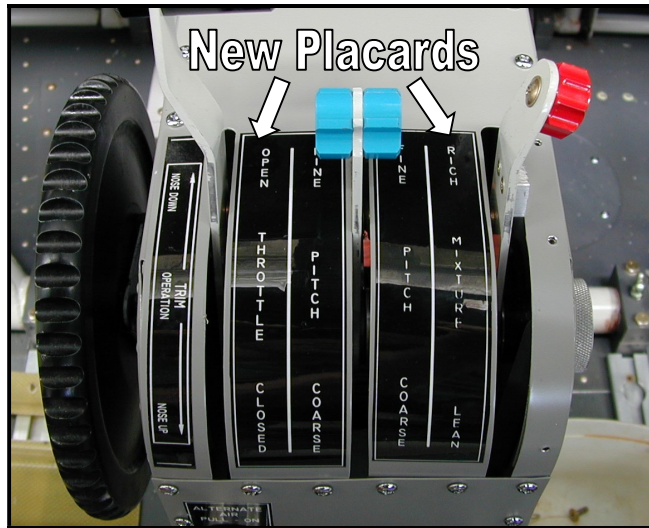


Figure 1

5. Remove the cowls.
6. Install three blade propeller in accordance with the Hartzell Propellers Owner's Manual (Manual No. 115N, Section 3) at latest revision and illustration in figure 2.
7. After installation of three blade propeller ensure that the fine pitch blade setting is set at $12.8 \pm 0.2^\circ$

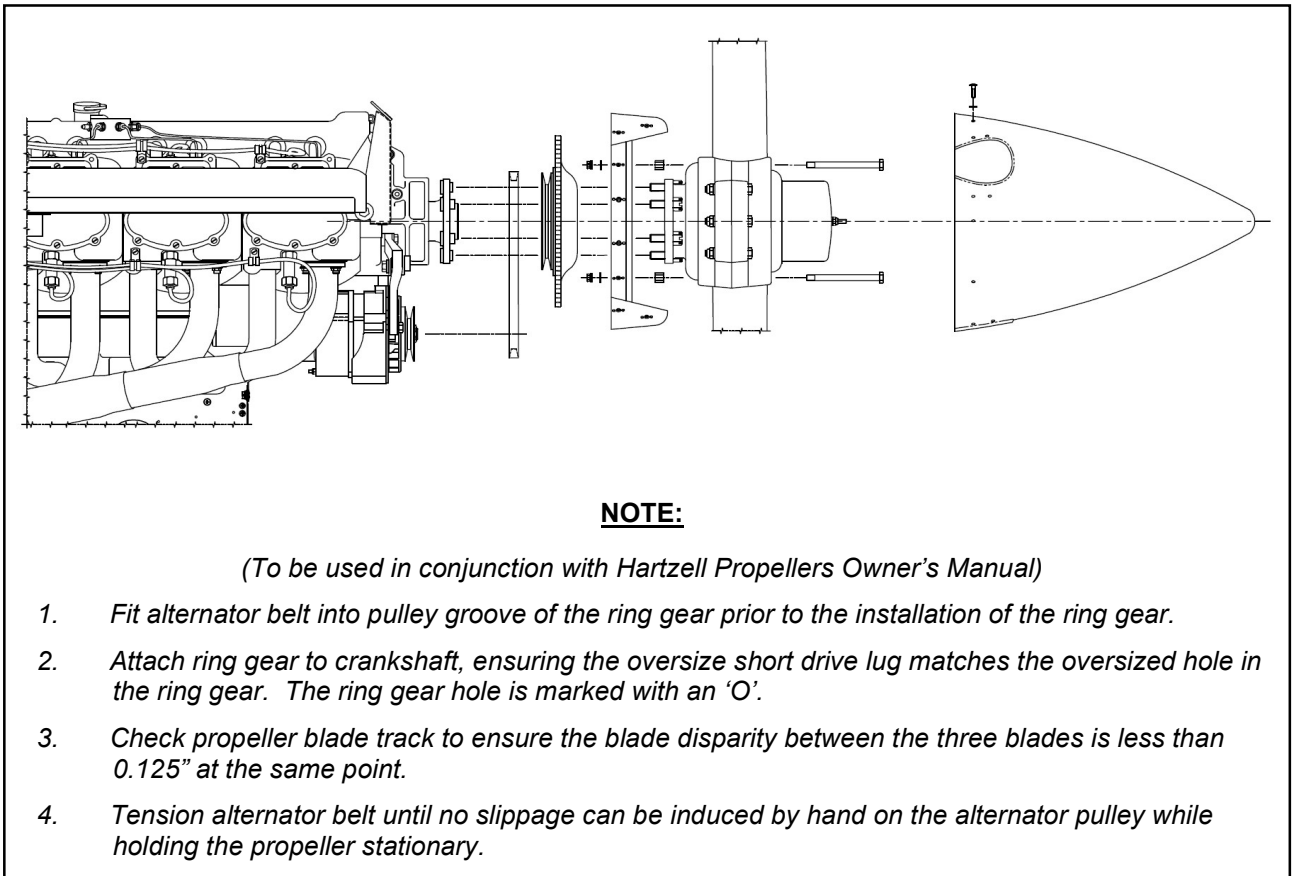


Figure 2

8. Replace 4 Governor attachment studs with P/N 31C-17, inserting new studs to the same depth as original's.
9. Install governor in accordance with Hartzell Service Letter HC-SL-61-277 at latest revision and illustration in Figure 3.

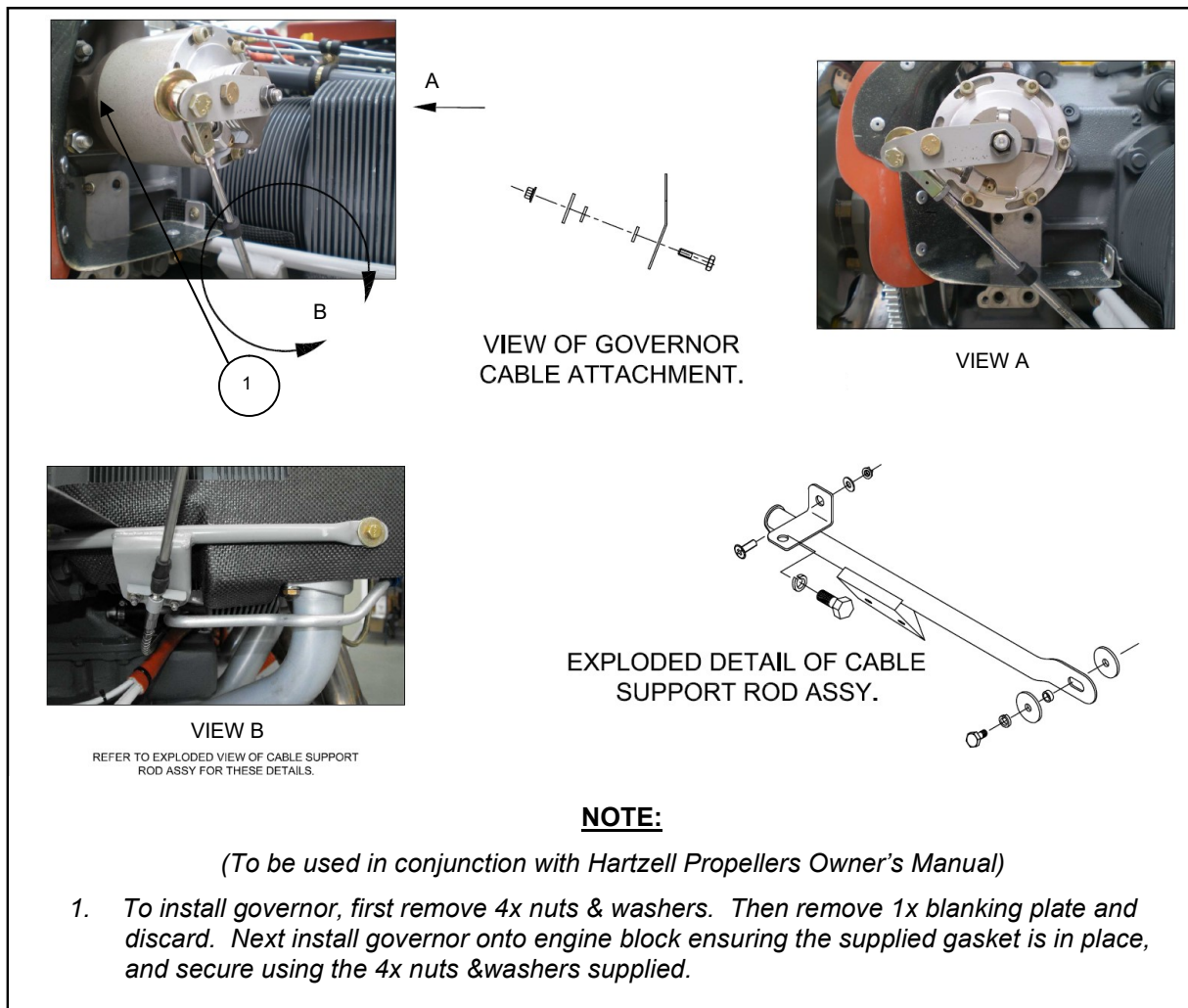


Figure 4

10. Carry out static RPM check in accordance with Propeller Owner's Manual No. 115N Section 4-1B.
11. Install spinner in accordance with Hartzell Propellers Owner's Manual (Manual No. 115N, Section 3) at latest issue.
12. Set governor in accordance with Hartzell Service Letter HC-SL-61-277 at latest revision.
13. Reinstall cowls.
14. A Dynamic prop balance is recommended.

Documentation:

- Update aircraft log book to reflect incorporation of this Service Bulletin.
- Flight Manual Supplement C01-04-81 (CASA) OR C01-04-125 (FAA) must be inserted into Section 9 of the Aircraft Flight Manual, except for aircraft incorporating SB-GA8-2011-66 which must insert Flight Manual Supplement C01-04-79.
- Service Manual Supplement C05-96-08 (CASA) OR C05-96-34 (FAA).

Continued Airworthiness

Refer to:

Service Manual Supplement C05-96-08 (CASA) and Hartzell Service Letter HC-SL-61-61Y for propeller and governor overhaul periods.

OR

Service Manual Supplement C05-96-34 (FAA) and Hartzell Service Letter HC-SL-61-61Y for propeller and governor overhaul periods.

Compliance Notice:

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

DOCUMENT COMPLIANCE NOTICE



Document:

SB-GA8-2009-62

Issue 34

Aircraft Serial Number: GA8-_____

Service Bulletin SB-GA8-2009-62 Issue 34 has been incorporated in the above aircraft.

Date of Incorporation: _____

Signed

Print Name: _____

Please post, fax or email this compliance notice to:

GippsAero

Attn: Technical Publications

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