

VOLUME NO.

SECTION II

RECORD OF INSTALLATIONS  
AND MODIFICATIONS  
TO AIRCRAFT

© Minister of Supply and Services Canada 1976

Available by mail from

Printing and Publishing  
Supply and Services Canada  
Ottawa, Canada K1A 0S9

or through your bookseller.

Catalogue No. T52-2365-2  
ISBN

Price: Canada: 0.75  
Other countries: 0.90

Price subject to change without notice.  
Ottawa, 1965  
Reprinted 1969, 1971, 1973, 1975, 1976

## AIRFRAME LOG

(Section II)

1. Nationality and Registration

C-FCAM

2. Manufacturer's Designation

GLASAIR SH-2

3. Record of

(a) Engine Installations

(b) Propellor Installations

(c) Airworthiness Directives (A/D)

(d) Service Bulletins (S/B)

(e) Special Inspections (S/I)

(f) Modifications (MODS)

# RECORD OF ENGINE &

# PROPELLER INSTALLATION

DATE	ENGINE OR PROPELLER MAKE & MODEL	SERIAL NO.	POSITION	DATE INSTALLED	DATE REMOVED
SEPT 87	LYCOMING O320.D3C	L-7793-39A		SEPT 87	
✓	BERNIE WARNE				
	ALMOST CONSTANT SPIND			SEPT 87	TORQUE 20 FT LBS.
SEPT 16/97	NEWTED HENDRICKSON PROP INSTALLED	MODEE 68/76		SEPT 11/97	TORQUE 25 FT LBS.

REMARKS - REASON FOR CHANGE	SIGNATURE	LICENCE NUMBER
	<i>[Signature]</i>	485014328
	<i>[Signature]</i>	✓
	<i>[Signature]</i>	✓
	<i>[Signature]</i>	520407903

## RECORD OF AIRFRAME AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE	A/D, S/B, S/I, MODS	DETAILS OF
SEPT 1/87	S/B 1-35	GLASSAIR S.B.'S 1 TO 35 WERE INCORPORATED INSPECTION FOR FUEL LEAKAGE AROUND
MAR 25/87	S/B 36	N/A APPLIES TO GLASSAIR II
MAR 25/87	S/B 37	N/A APPLIES TO II & III
MAR 25/87	S/B 38	INSP OR REPLACEMENT OF U/C LEG UPPER
AUG 31/87	S/B 39	N/A APPLIES TO R.G. MODELS
SEPT 30/87	S/B 40	N/A APPLIES TO R.G. MODELS
SEPT 30/87	S/B 41	N/A APPLIES TO F.T. MODELS
OCT 15/87	S/B 42	POSSIBLE INCORRECT CABLE THIMBLE INSTALLATION
AUG 10/87	S/B 43	N/A APPLIES TO F.T. MODELS
SEPT 1/89	S/B 44	N/A APPLIES TO R.G. MODELS
OCT 29/87	S/B 45	N/A APPLIES TO NOSK GEAR A/C
DEC 28/87	S/B 46	N/A APPLIES TO R.G. MODELS
JAN 11/88	S/B 47	N/A APPLIES TO II & III
MAR 31/88	S/B 48	N/A APPLIES TO II
MAR 31/88	S/B 49	N/A APPLIES TO II & III
APR 14/88	S/B 50	N/A APPLIES TO III
APR 15/88	S/B 51	N/A APPLIES TO III
MAY 17/88	S/B 52	N/A APPLIES TO II & III
JULY 15/88	S/B 53	N/A APPLIES TO II & III
JULY 15/88	S/B 54	POSSIBLE PLAY BETWEEN PROP LUG BUSH EXT.
JULY 15/88	S/B 55	N/A APPLIES TO III
JULY 15/88	S/B 56	N/A APPLIES TO R.G.
JULY 20/88	S/B 57	N/A APPLIES TO II
SEPT 8/88	S/B 58	N/A APPLIES TO II & III
SEPT 26/88	S/B 59	N/A APPLIES TO R.G.
OCT 24/88	S/B 60	POSSIBLE LEAKS THROUGH SPAR CAPS.
JAN 1/89	S/B 61	N/A APPLIES TO III
NOV 23/88	S/B 62	N/A APPLIES TO III
MAR 3/89	S/B 63	N/A APPLIES TO II
MAR 6/89	S/B 64	N/A THIS FUEL PUMP NOT INSTALLED ON C-FRAM
MAR 27/89	S/B 65	N/A NOT RECEIVED
	S/B 66	N/A NOT RECEIVED
	S/B 67	N/A THIS HEAT BOX GASKET NOT INSTALLED.
JULY 9/89	S/B 68	POSSIBLY INCORRECT ENGINE MOUNT BOLTS
DEC 11/89	S/B 73	POSSIBLE CRACKS IN SPINNER BACKPLATE
APR 30/90	S/B 81	N/A APPLIES TO II
JAN 10/92	S/B 69	N/A APPLIES TO III
JAN 10/92	S/B 71	N/A APPLIES TO III

## SPECIAL INSPECTIONS (S/I) AND MODIFICATIONS (MODS)

WORK OR INSPECTION PERFORMED	SIGNATURE	LICENCE NUMBER
DURING CONSTRUCTION.		
MAIN SPAR ATTACH FITTINGS. BEING DONE AT 50 HR INTERVALS	<i>[Signature]</i>	105 014356
	<i>[Signature]</i>	
ATTACH BOLTS. BOLTS CHANGED TO OVERSIZE DEC 4/88	<i>[Signature]</i>	
INSPECTED O.K. SEPT 87	<i>[Signature]</i>	
THIS MOD. WAS DONE & ENTERED IN PROP LOG	<i>[Signature]</i>	
INSPECTED O.K. UPON RECEIPT & AT 100 HR INTERVALS	<i>[Signature]</i>	
CASSNA BOX USED.		
INSPECTED O.K.	<i>[Signature]</i>	
TO BE DONE AT NEXT ANNUAL COMPLETED	<i>[Signature]</i>	

**RECORD OF AIRFRAME  
AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),**

DATE	A/D, S/B, S/I, MODS	DETAILS OF
JAN 10/92	S/B 84	N/A APPLIES TO II
JAN 10/92	S/B 87	N/A APPLIES TO II
JAN 10/92	S/B 90	N/A APPLIES TO II
JAN 10/92	S/B 91	N/A NOT FUEL INJECTED
JAN 10/92	S/B 96	N/A SPRING TRIM ASS. INSPECTED OK
JAN 10/92	S/B 98	N/A SLOTTED FLAPS NOT INSTALLED ON CFCAM
JAN 10/92	S/R 101	N/A APPLIES TO II & III
JAN 10/92	S/R 102	N/A APPLIES TO II-S
JAN 10/92	S/B 104	N/A APPLIES TO III
JAN 10/92	S/R 106	N/A APPLIES TO II & III
JAN 10/92	S/B 107	N/A APPLIES TO III
JAN 10/92	S/B 108	N/A APPLIES TO III
OCT 5/92	S/B 109	N/A - APPLIES TO RETRACTABLE NOSE WHEELS
OCT 5/92	S/B 110	N/A -
OCT 5/92	S/B 111	NEW PLUNGER BOLT INSTALLED AS PER S/B
OCT 5/92	S/B 115	N/A - FUEL SELECTOR VALVE ON PANNEL
OCT 5/92	S/B 116	N/A - WING TIPS NOT INSTALLED ON THIS AIRCRAFT

**SERVICE BULLETIN LIST**

- SB 11 Aileron actuating push rod for S-Tec Autopilot (Autopilots shipped before 4/2/86)
- SB 91<sup>6</sup> N/A Alternate air door spring (III and I, II, II-S fuel-injection retrofit before 12/10/90)
- SB 104<sup>4</sup> N/A Aluminum brake line tubing, lot number 90-6980, 6/2/89 (III, 6/1/89 to 8/15/91)
- SB 60 Aluminum hydraulic tubing, lot number 39611 (Shipped from 11/1/86 to 7/31/87)
- SB 10 Battery/alternator master switch (Glasair optional electrical system kits before 11/18/85)
- SB 68<sup>1</sup> N/A Cabin heat box gasket (I, II before 9/7/89)
- SB 43 Cable thimble (possibly incorrect) (I, II, III shipped before 10/8/87)
- SB 48 Canopy frame modification (II serial no. 1001 thru 1053; III serial no. 3001 thru 3055)
- SB 50 Canopy frame trim line (II and III before 4/7/88)
- SB 5 Control stick sleeve, elevator horn (I with prefabricated metal hardware)
- SB 35 Control stick sleeve (II shipped before 7/16/87)
- SB 108<sup>4</sup> N/A Cowl flap actuator rod end bearings (III, bearings shipped between 7/3/91 and 12/31/91)
- SB 8 Defective fuel fitting (I fuel system kits shipped between 8/1/85 and 10/31/85)
- SB 17 Derakane vinylester resin (All vinylester resin shipped between 6/3/85 and 10/8/86)
- SB 20 Electrical system, 28 Volt option (All III)
- SB 53 Elevator actuator arm interference with rudder linkage (II, III shipped before 9/1/88)
- SB 54 Elevator counterweight arm modification (II and III shipped before 7/1/88)
- SB 69<sup>1</sup> N/A Elevator counterweight arm reinforcement (II, III before 8/18/89)
- SB 94 Elevator hinge brackets (II-S and III between 8/1/90 and 11/27/90)
- SB 106<sup>2</sup> O/K Elevator hinge bracket bolts (II, II-S, III shipped before 6/24/91)
- SB 59 Elevator trim box (II and III shipped before 9/26/88)
- SB 96<sup>7</sup> N/A Elevator trim gear assy. (II, II-S, III, and retrofit I before 9/12/90)
- SB 3 Emergency gear extension spring tabs (I RG shipped before 1/31/85)
- SB 71<sup>2</sup> N/A Engine mount inspection requirement (III before 12/11/89)
- SB 22 Engine mount, fitting of (III serial numbers 3001 thru 3020)
- SB 32 Engine mount, fitting of (III serial numbers 3001 thru 3009 and 3011 thru 3014)
- SB 33 Engine mount, fitting of (III serial numbers 3015 thru 3026)
- SB 73 Engine mount nuts (I, II, III before 11/30/89)
- SB 19 Engine, propeller, and propeller governors (III before 12/8/86)
- SB 107<sup>3</sup> N/A Engine vibration isolators, Barry Controls (III, isolators shipped from 6/12/90 to 12/17/91)
- SB 13 Extra diodes on PC board (I RG PC boards shipped from 2/8/85 to 5/30/86)
- SB 65 Facet fuel pump, possible blockage (I fuel system kits)
- SB 49 Firewall flange template (dimension error) (II, templates shipped before 3/31/88)
- SB 31 Firewall rib location error (III before 4/3/87)
- SB 81 Fixed pitch propeller spinner backplate (I, II, II-S before 4/30/90)
- SB 14 Fixed pitch spinner backplate size incorrect (I, 12/10/85 to 5/30/86)
- SB 38 Flap control assembly location (II & III before 6/25/87)
- SB 34 Flap ratchet plate hole size (II & III before 6/25/87)
- SB 30 Forward partial spar support (III before 6/25/87)
- SB 18 Fuel contamination (All Glasairs)
- SB 101<sup>1</sup> O/K Fuel filter assembly, inspection and modification (II, II-S, III)
- SB 84<sup>3</sup> N/A Fuel gauge components for main tank (II-S before 3/29/90)
- SB 36 Fuel leakage, main spar attach fitting bolts (I kits with wings closed before 12/16/83)
- SB 61 Fuel leakage, main spar caps (All Glasairs before 12/15/88)
- SB 102<sup>10</sup> N/A Fuselage belly section, foam core (II-S, 1/1/91 to 6/18/91)
- SB 21 Fuselage panel modification (III shipped before 12/31/86)
- SB 16 Gas cap seals (new style) (I gas caps shipped from 2/11/86 to 9/17/86)
- SB 24 Horizontal stabilizer stiffening (III serial numbers 3002 thru 3014)
- SB 47 Hydraulic actuator piston retaining nut (I RG, II RG shipped before 12/17/87)
- SB 40 Hydraulic pressure gage sensing point relocation (I RG)
- SB 15 Hydraulic pump fittings (I RG hydraulic pumps shipped between 8/15/85 and 9/30/86)



Service Bulletin List (cont.)

- SB 41 Hydraulic pump pressure increase (I RG shipped before 9/30/87)
- SB 1 Hydraulic pump solenoids (I RG landing gear serial numbers 001 thru 070)
- SB 2 Hydraulic pump solenoids (I RG landing gear serial numbers 071 thru 220)
- SB 72 Hydraulic snubber (III before 9/11/89)
- SB 82 Induction elbow (90°) and support arms (III before 5/01/90)
- SB 70 Induction system fatigue improvements (III, I and II retrofit before 9/7/89)
- SB 27 Instrument panel template 3G1501 (III templates shipped before 2/17/87)
- SB 29 Landing gear box (early model) fit-up (III serial no. 3003-3008, 3013, 3015-3017, 3021, 3022)
- SB 99 Landing gear electrical system wiring change (III before 7/01/91)
- SB 6 Landing gear oleo strut internal snubber rings (I RG landing gear serial no. 001 thru 210)
- SB 6A Landing gear oleo strut internal snubber rings (I RG landing gear serial no. 001 thru 210)
- SB 95 Landing gear oleo struts (III, especially gear numbers 051 to 101)
- SB 105 Landing gear oleo strut, weld inspection and repair (I RG & II RG, serial no. 071 thru 302)
- SB 63 Landing gear retract PC boards (III between 7/15/87 and 3/01/89)
- SB 4 Leaking oleo struts (I RG before 4/29/85)
- SB 66 Lord engine suspension bushings, optional (III before 6/12/90)
- SB 77 Main gear actuator rod-end reinforcement (III before 3/26/90)
- SB 2 Main gear mounting bolts (I RG landing gear serial numbers 071 thru 220)
- SB 88 Main gear side brace assemblies (III shipped before 5/29/90)
- SB 93 Main gear strut replacement, gross weight increase (II, II-S TD before 6/13/91)
- SB 2 Main gear struts and bearing housing installation (I RG landing gear s/n 071 thru 220)
- SB 76 Main gear toe-in adjustment (II RG, III shipped before 3/5/90)
- SB 2 Main gear trunnion actuator arms (I RG landing gear serial numbers 071 thru 220)
- SB 78 Nose gear actuation system (III before 3/26/90)
- SB 46 Nose gear axles (II RG, II FT, III axles shipped before 11/12/87)
- SB 56 Nose gear down spring attach hole (III landing gear, first production run)
- SB 51 Nose gear drag brace binding (III landing gear, first production run)
- SB 100 Nose gear drag brace, possible failure to lock over-center (III before 7/1/91)
- SB 26 Nose gear drag brace reinforcement (I RG nose gear serial numbers 001 thru 230)
- SB 79 Nose gear emergency extension gas spring (I RG, II RG before 4/01/90)
- SB 92 Nose gear emergency extension gas spring (Flying I, II, II-S RG)
- SB 75 Nose gear fork fastener modification (All RG before 2/20/90)
- SB 1 Nose gear fork mounting bolt (I RG landing gear serial numbers 001 thru 070)
- SB 109 Nose gear hydraulic actuator rod reinforcement (All III)
- SB 103 Nose gear over-center springs (Completed Glasair III aircraft)
- SB 1 Nose gear scissors (I RG landing gear serial numbers 001 thru 070)
- SB 9 Nose gear shimmy (I RG)
- SB 9B Nose gear shimmy (I RG)
- SB 80 Nose gear shimmy damper compression spacer (I RG, II RG, III)
- SB 9C Nose gear shimmy damper modification (I RG)
- SB 89 Nose gear strut reinforcement (FT before 7/13/90 or kit number 2083)
- SB 44A Nose landing gear modification (I FT)
- SB 42 Nose landing gear pivot range (I FT)
- SB 85 Nose gear wheelwell fire barrier (II RG, II-S RG before 10/1/90)
- SB 23 Nose gear wheelwell gap (III serial numbers 3002 thru 3029)
- SB 74 Oil cooler proximity to exhaust (II before 1/1/91)
- SB 83 Paint cracks around windshield (II and III before 6/13/91)
- SB 2 Partial spar placement (I RG with landing gear serial numbers 071 thru 220)
- SB 55 Propeller extension, fixed pitch: lug bushing play (I, II)
- SB 86 Propeller governor oil line airworthiness directive (I, II, II-S before 5/3/90)
- SB 6 RG gear strut leaks (I RG landing gear serial numbers 071 thru 210)



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Service Bulletin List (cont.)

- SB 6A RG gear strut leaks (I RG landing gear serial numbers 001 thru 210)
- SB 90<sup>s</sup> N/A Rudder actuator linkage (II-S before 10/25-90 or kit 2093)
- SB 58 Rudder pedal assembly (II FT shipped before 9/08/88)
- SB 45 Rudder pedal support bracket (possibly incorrect) (II RG shipped before 10/21/87)
- SB 97 Rudder pedal weldments (II-S RG and III between 6/26/90 and 1/4/91)
- SB 87<sup>z</sup> N/A Seat belt attach angles (II, II-S, and III before 6/13/91)
- SB 2 Side brace and trunnion, possibility of conflict (I RG landing gear s/n 071 thru 220)
- SB 57 Side brace arm and bellcrank bushing replacement (I RG, II RG, III before 7/13/88)
- SB 64 Side brace brackets (II RG, first 50 shipsets)
- SB 98<sup>z</sup> N/A Slotted flap hinge point corrections (Slotted flaps before 1/24/91)
- SB 25 Spar cap upper contour (II, III before 6/25/87)
- SB 5 Spinner front plate, constant speed (before 6/28/85)
- SB 39 Taildragger main landing gear upper attach bolts (I, II before 8/31/87)
- SB 67 Trim system interference between drum and housing (II, III, I retro before 8/31/89)
- SB 28 Upgrading Glasair I with Glasair II fuselage
- SB 7 Welds omitted on Glasair FT inboard rib attach bracket (I FT landing gear before 10/17/85)
- SB 7A Welds on inboard rib attach brackets interfere with washers (I FT before 10/31/85)
- SB 37 Wheelwell scribe lines (II RG before 6/16/87)
- SB 62 Wing leading edge interference with nose gear box and fuselage reinforcement rib (III kits through s/n 3128)



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LIST OF ADDENDUMS

All of the addendums that have not yet been incorporated into the instruction manuals by the revision system are listed below. The addendums are numbered sequentially in reference to the airframe kit(s) to which they apply. For example, the title of Addendum 16, 8TD, 10RG, 6FT indicates that it is the 16th addendum published for the original Glasair taildragger kit, the 8th addendum that applies to new Glasair TD kits (with factory pre-fabricated hardware), the 10th addendum in the sequence for Glasair RG kits, and the 6th addendum for Glasair Fixed Tricycle airframes.

If an addendum does not apply to all of the Glasair airframe models, as in Addendum 8RG or Addendum 4FT, the title will list only the airframes to which it applies. Any addendum that was published prior to the introduction of the Glasair FT, and which applies to all of the other Glasair airframe kits, also applies to the Glasair FT airframe kit (except, of course, for landing gear related items).

NOTE: Addendum 7 and previous addendums have been incorporated into the manuals by the revision system. No further addendums have been, or will be issued after 5/30/86.

Addendum VIII ..... UP-DATED ..... 5/16/84  
 Subject 1: Fuel tank sumps  
 Subject 2: Taildragger landing gear construction and installation  
 Subject 3: Fuel system  
 Subject 4: Empennage counterweight installation

NOTE: Addendum VIII applies only to the original ("old") Glasair taildragger Instruction Manuals. The information in Addendum VIII was incorporated into the "new" Glasair TD manuals and the Glasair RG manuals at the time of initial publication.

Addendum 9, Old TD Manuals ..... UP-DATED ..... 7/20/84  
 Subject 1: Fuel system vapor lock problem  
 Subject 2: Elevator control horn reinforcement (welded)

Addendum 1TD ..... UP-DATED ..... 7/24/84  
 Subject 1: Fuel system vapor lock problem  
 Subject 2: Elevator control horn reinforcement (riveted)

Addendum 1RG ..... N/A ..... 7/24/84  
 Subject 1: Fuel system vapor lock problem  
 Subject 2: Elevator control horn reinforcement (riveted)  
 Subject 3: Side brace bellcrank reinforcement (riveted)

Addendum 10, 2TD, 2RG ..... UP-DATED ..... 9/21/84  
 Subject 1: Fuel system; fuel starvation during slips  
 Subject 2: Fuel vent lines, main wing tank  
 Subject 3: RG electrical system schematic  
 Subject 4: Fuel tank baffle templates

Addendum 11, 3TD, 3RG ..... UP-DATED ..... 10/31/84  
 Subject: Fuel tank modification hazards

Addendum 4RG ..... N/A ..... 1/31/85  
 Subject 1: Hydraulic system schematic  
 Subject 2: RG dual brake schematic  
 Subject 3: Wing jig support templates



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Subject 4: Hydraulic pump solenoids  
 Subject 5: Positioning side brace brackets

Addendum 12, 4TD, 5RG ..... UP-DATED ..... 1/31/85  
 Subject: Lightning hazard

Addendum 13, 5TD, 6RG ..... UP-DATED ..... 3/01/85  
 Subject 1: Fuel system: water accumulation with metering tube baffle system  
 Subject 2: Taildragger wing tank contaminant accumulation  
 Subject 3: Bonding metal fuel system components  
 Subject 4: Engine cowling hinge pins  
 Subject 5: RG nose gear drag brace corrosion problem

Addendum 14, 6TD, 7RG, 1FT ..... UP-DATED ..... 6/28/85  
 Subject 1: TD and FT rudder pedal assembly stops and reinforcement  
 Subject 2: Never exceed speed (red line) increase  
 Subject 3: Optional enlarged rudder

Addendum 2FT ..... N/A ..... 7/19/85  
 Subject: Location of forty pound foam inserts in nose gear support ribs

NOTE: Addendum 2FT was incorporated into the FT Appendix by Revision A.

Addendum 8RG ..... N/A ..... 8/05/85  
 Subject 1: Hydraulic pump wiring  
 Subject 2: Filling the hydraulic pump and bleeding the hydraulic system

Addendum 3FT ..... N/A ..... 9/25/85  
 Subject 1: Nose gear support rib fabrication  
 Subject 2: Nose gear support ribs and injected engine mount support structure

Addendum 4FT ..... N/A ..... 2/06/86  
 Subject 1: Upper rib reinforcement caps  
 Subject 2: Positioning the main gear struts

Addendum 15, 7TD, 9RG, 5FT ..... UP-DATED ..... 3/13/86  
 Subject: Firewall (fire protection)

Addendum 16, 8TD, 10RG, 6FT ..... UP-DATED ..... 3/13/86  
 Subject 1: Battery and starter solenoids  
 Subject 2: Glasair model numbers

Addendum 17, 9TD, 11RG, 7FT ..... UP-DATED ..... 5/30/86  
 Subject 1: Aileron counterweight enclosures  
 Subject 2: Control tunnel isolation  
 Subject 3: Control handle boots  
 Subject 4: Seat pan installation  
 Subject 5: RG nose gear microswitch  
 Subject 6: Engine control attachment  
 Subject 7: RG hydraulic pump manual relief valve



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INSTRUCTION MANUAL REVISIONS

Old Kit Taildragger Manual

Revision A .....	5/12/81
Revision B .....	8/25/81
Revision C .....	1/15/82
Revision D .....	5/03/82
Revision E .....	12/30/82
Revision F .....	12/16/83
Revision G .....	6/20/86
Revision H .....	10/30/86

OK  
COMPLETED

RG Appendix

Revision A .....	2/03/84
Revision B .....	6/30/86
Revision C .....	10/30/86

N/A

FT Appendix

Revision A .....	8/09/85
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N/A

New Kit TD Manual

Revision A .....	6/30/86
Revision B .....	10/31/86

COMPLETED

RG Manual

Revision A .....	6/30/86
Revision B .....	10/31/86

N/A



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OWNERS MANUAL REVISIONS

Taildragger Owners Manual

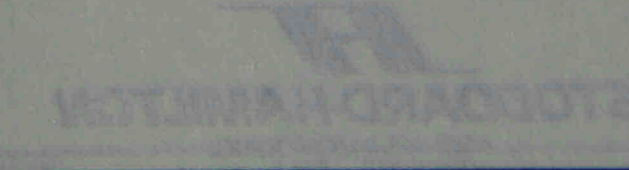
Revision A .....	8/25/86
Revision B .....	6/30/86
Revision C .....	10/31/86

FT Owners Manual

Revision A .....	10/31/86
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RG Owners Manual

Revision A .....	10/31/86
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- SB 11 Aileron actuating push rod for S-Tec Autopilot (Autopilots shipped before 4/2/86)
- SB 91 Alternate air door spring (III and I, II, II-S fuel-injection retrofit before 12/10/90)
- SB 104 Aluminum brake line tubing, lot number 90-6980, 6/2/89 (III, 6/1/89 to 8/15/91)
- SB 60 Aluminum hydraulic tubing, lot number 39611 (Shipped from 11/1/86 to 7/31/87)
- SB 10 Battery/alternator master switch (Glasair optional electrical system kits before 11/18/85)
- SB 68 Cabin heat box gasket (I, II before 9/7/89)
- SB 43 Cable thimble (possibly incorrect) (I, II, III shipped before 10/8/87)
- SB 48 Canopy frame modification (II serial no. 1001 thru 1053; III serial no. 3001 thru 3055)
- SB 50 Canopy frame trim line (II and III before 4/7/88)
- SB 5 Control stick sleeve, elevator horn (I with prefabricated metal hardware)
- SB 35 Control stick sleeve (II shipped before 7/16/87)
- SB 108 Cowl flap actuator rod end bearings (III, bearings shipped between 7/3/91 and 12/31/91)
- SB 8 Defective fuel fitting (I fuel system kits shipped between 8/1/85 and 10/31/85)
- SB 17 Derakane vinylester resin (All vinylester resin shipped between 6/3/85 and 10/8/86)
- SB 20 Electrical system, 28 Volt option (All III)
- SB 53 Elevator actuator arm interference with rudder linkage (II, III shipped before 9/1/88)
- SB 54 Elevator counterweight arm modification (II and III shipped before 7/1/88)
- SB 69 Elevator counterweight arm reinforcement (II, III before 8/18/89)
- SB 94 Elevator hinge brackets (II-S and III between 8/1/90 and 11/27/90)
- SB 106 Elevator hinge bracket bolts (II, II-S, III shipped before 6/24/91)
- SB 59 Elevator trim box (II and III shipped before 9/26/88)
- SB 96 Elevator trim gear assy. (II, II-S, III, and retrofit I before 9/12/90)
- SB 3 Emergency gear extension spring tabs (I RG shipped before 1/31/85)
- SB 71 Engine mount inspection requirement (III before 12/11/89)
- SB 22 Engine mount, fitting of (III serial numbers 3001 thru 3020)
- SB 32 Engine mount, fitting of (III serial numbers 3001 thru 3009 and 3011 thru 3014)
- SB 33 Engine mount, fitting of (III serial numbers 3015 thru 3026)
- SB 73 Engine mount nuts (I, II, III before 11/30/89)
- SB 19 Engine, propeller, and propeller governors (III before 12/8/86)
- SB 107 Engine vibration isolators, Barry Controls (III, isolators shipped from 6/12/90 to 12/17/91)
- SB 13 Extra diodes on PC board (I RG PC boards shipped from 2/8/85 to 5/30/86)
- SB 65 Facet fuel pump, possible blockage (I fuel system kits)
- SB 49 Firewall flange template (dimension error) (II, templates shipped before 3/31/88)
- SB 31 Firewall rib location error (III before 4/3/87)
- SB 81 Fixed pitch propeller spinner backplate (I, II, II-S before 4/30/90)
- SB 14 Fixed pitch spinner backplate size incorrect (I, 12/10/85 to 5/30/86)
- SB 38 Flap control assembly location (II & III before 6/25/87)
- SB 111 Flap plunger bolt, possible failure (All Glasair I aircraft)
- SB 34 Flap ratchet plate hole size (II & III before 6/25/87)
- SB 30 Forward partial spar support (III before 6/25/87)
- SB 18 Fuel contamination (All Glasairs)
- SB 101 Fuel filter assembly, inspection and modification (II, II-S, III)
- SB 84 Fuel gauge components for main tank (II-S before 3/29/90)
- SB 36 Fuel leakage, main spar attach fitting bolts (I kits with wings closed before 12/16/83)
- SB 61 Fuel leakage, main spar caps (All Glasairs before 12/15/88)
- SB 115 Fuel selector valve, possible inadvertent shut-off (All Glasairs)
- SB 102 Fuselage belly section, foam core (II-S, 1/1/91 to 6/18/91)
- SB 21 Fuselage panel modification (III shipped before 12/31/86)
- SB 16 Gas cap seals (new style) (I gas caps shipped from 2/11/86 to 9/17/86)
- SB 24 Horizontal stabilizer stiffening (III serial numbers 3002 thru 3014)
- SB 47 Hydraulic actuator piston retaining nut (I RG, II RG shipped before 12/17/87)



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- SB 40 Hydraulic pressure gage sensing point relocation (I RG)
- SB 15 Hydraulic pump fittings (I RG hydraulic pumps shipped between 8/15/85 and 9/30/86)
- SB 41 Hydraulic pump pressure increase (I RG shipped before 9/30/87)
- SB 1 Hydraulic pump solenoids (I RG landing gear serial numbers 001 thru 070)
- SB 2 Hydraulic pump solenoids (I RG landing gear serial numbers 071 thru 220)
- SB 72 Hydraulic snubber (III before 9/11/89)
- SB 82 Induction elbow (90°) and support arms (III before 5/01/90)
- SB 70 Induction system fatigue improvements (III, I and II retrofit before 9/7/89)
- SB 27 Instrument panel template 3G1501 (III templates shipped before 2/17/87)
- SB 29 Landing gear box (early model) fit-up (III serial no. 3003-3008, 3013, 3015-3017, 3021, 3022)
- SB 99 Landing gear electrical system wiring change (III before 7/01/91)
- SB 6 Landing gear oleo strut internal snubber rings (I RG landing gear serial no. 001 thru 210)
- SB 6A Landing gear oleo strut internal snubber rings (I RG landing gear serial no. 001 thru 210)
- SB 95 Landing gear oleo struts (III, especially gear numbers 051 to 101)
- SB 105 Landing gear oleo strut, weld inspection and repair (I RG & II RG, serial no. 071 thru 302)
- SB 63 Landing gear retract PC boards (III between 7/15/87 and 3/01/89)
- SB 4 Leaking oleo struts (I RG before 4/29/85)
- SB 66 Lord engine suspension bushings, optional (III before 6/12/90)
- SB 77 Main gear actuator rod-end reinforcement (III before 3/26/90)
- SB 2 Main gear mounting bolts (I RG landing gear serial numbers 071 thru 220)
- SB 88 Main gear side brace assemblies (III shipped before 5/29/90)
- SB 110 Main gear strut attach brackets (II-S FT shipped before 3/10/92)
- SB 93 Main gear strut replacement, gross weight increase (II, II-S TD before 6/13/91)
- SB 2 Main gear struts and bearing housing installation (I RG landing gear s/n 071 thru 220)
- SB 76 Main gear toe-in adjustment (II RG, III shipped before 3/5/90)
- SB 2 Main gear trunnion actuator arms (I RG landing gear serial numbers 071 thru 220)
- SB 78 Nose gear actuation system (III before 3/26/90)
- SB 46 Nose gear axles (II RG, II FT, III axles shipped before 11/12/87)
- SB 56 Nose gear down spring attach hole (III landing gear, first production run)
- SB 51 Nose gear drag brace binding (III landing gear, first production run)
- SB 100 Nose gear drag brace, possible failure to lock over-center (III before 7/1/91)
- SB 26 Nose gear drag brace reinforcement (I RG nose gear serial numbers 001 thru 230)
- SB 79 Nose gear emergency extension gas spring (I RG, II RG before 4/01/90)
- SB 92 Nose gear emergency extension gas spring (Flying I, II, II-S RG)
- SB 75 Nose gear fork fastener modification (All RG before 2/20/90)
- SB 1 Nose gear fork mounting bolt (I RG landing gear serial numbers 001 thru 070)
- SB 109 Nose gear hydraulic actuator rod reinforcement (All III)
- SB 103 Nose gear over-center springs (Completed Glasair III aircraft)
- SB 1 Nose gear scissors (I RG landing gear serial numbers 001 thru 070)
- SB 9 Nose gear shimmy (I RG)
- SB 9B Nose gear shimmy (I RG)
- SB 80 Nose gear shimmy damper compression spacer (I RG, II RG, III)
- SB 9C Nose gear shimmy damper modification (I RG)
- SB 89 Nose gear strut reinforcement (FT before 7/13/90 or kit number 2083)
- SB 44A Nose landing gear modification (I FT)
- SB 42 Nose landing gear pivot range (I FT)
- SB 85 Nose gear wheelwell fire barrier (II RG, II-S RG before 10/1/90)
- SB 23 Nose gear wheelwell gap (III serial numbers 3002 thru 3029)
- SB 74 Oil cooler proximity to exhaust (II before 1/1/91)
- SB 83 Paint cracks around windshield (II and III before 6/13/91)
- SB 2 Partial spar placement (I RG with landing gear serial numbers 071 thru 220)



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Service Bulletin List (cont.)

- SB 55 Propeller extension, fixed pitch: lug bushing play (I, II)
- SB 86 Propeller governor oil line airworthiness directive (I, II, II-S before 5/3/90)
- SB 6 RG gear strut leaks (I RG landing gear serial numbers 071 thru 210)
- SB 6A RG gear strut leaks (I RG landing gear serial numbers 001 thru 210)
- SB 12 Rod end bearings, F3416M (I before 4/30/86, through serial number 795)
- SB 90 Rudder actuator linkage (II-S before 10/25-90 or kit 2093)
- SB 58 Rudder pedal assembly (II FT shipped before 9/08/88)
- SB 45 Rudder pedal support bracket (possibly incorrect) (II RG shipped before 10/21/87)
- SB 97 Rudder pedal weldments (II-S RG and III between 6/26/90 and 1/4/91)
- SB 87 Seat belt attach angles (II, II-S, and III before 6/13/91)
- SB 2 Side brace and trunnion, possibility of conflict (I RG landing gear s/n 071 thru 220)
- SB 57 Side brace arm and bellcrank bushing replacement (I RG, II RG, III before 7/13/88)
- SB 64 Side brace brackets (II RG, first 50 shipsets)
- SB 98 Slotted flap hinge point corrections (Slotted flaps before 1/24/91)
- SB 25 Spar cap upper contour (II, III before 6/25/87)
- SB 5 Spinner front plate, constant speed (before 6/28/85)
- SB 39 Tairdragger main landing gear upper attach bolts (I, II before 8/31/87)
- SB 67 Trim system interference between drum and housing (II, III, I retro before 8/31/89)
- SB 28 Upgrading Glasair I with Glasair II fuselage
- SB 7 Welds omitted on Glasair FT inboard rib attach bracket (I FT landing gear before 10/17/85)
- SB 7A Welds on inboard rib attach brackets interfere with washers (I FT before 10/31/85)
- SB 37 Wheelwell scribe lines (II RG before 6/16/87)
- SB 62 Wing leading edge interference with nose gear box and fuselage reinforcement rib (III kits through s/n 3128)
- SB 116 Wing tip extensions, large rudder requirement (Glasair I aircraft with wing tip extensions)

SERVICE BULLETIN 111 MANDATORY

SUBJECT: Flap Plunger Bolt, Possible Failure

APPLICATION: All Glasair I aircraft

DESCRIPTION: We recently received a report of an incident in which the flap plunger bolt failed while the flaps were extended during final approach, causing the flaps to retract suddenly. The failure occurred after several hundred hours of flight time.

NOTE: The flap plunger bolt is an AN4-13A or AN4-14A bolt with the end machined to fit into the notches in the flap ratchet plate. Early Glasair I kits were supplied an AN4-13A bolt, which the builder modified by filing the threads off the end. Later Glasair I kits were supplied an AN4-14A bolt that had been modified at the factory.

SOLUTION: Replace the flap plunger bolt at every second annual inspection. In the intervening annual inspections, examine the end of the bolt for cracks and wear. Replace the bolt if cracks are found or if significant wear is evident.

WARNING: Replacing the flap plunger bolt at the specified frequency is MANDATORY.

Replacement flap plunger bolts are available from Stoddard-Hamilton Aircraft. Order stock number 150-0315-001. Our current stock of these parts are machined AN4-14A bolts. In the future, the flap plunger bolts will be manufactured from NAS6604-18 bolts, which have a higher tensile strength.

SELECTOR VALVE POSITION



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