

Gulfstream G500

MAINTENANCE MANUAL

Revision 25
June 15, 2016

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GULFSTREAM G500

MAINTENANCE MANUAL

LIST OF EFFECTIVE PAGES Chapter 05

TIME LIMITS / MAINTENANCE CHECKS

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*05-50-00	625	June 15/16	*05-50-00	650	June 15/16
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28-00-00	3	June 30/06	28-10-00	509	June 20/13
28-00-00	4	June 30/06	28-10-00	510	June 20/13
28-00-00	5	June 30/06	28-10-00	511	June 20/13
28-00-00	6	June 30/06	28-10-00	512	June 20/13
28-00-00	201	February 29/12	28-10-00	601	June 20/13
28-00-00	202	February 29/12	28-10-00	602	June 20/13
28-00-00	203	February 29/12	28-10-00	603	June 20/13
28-00-00	204	February 29/12	28-10-00	604	June 20/13
28-00-00	205	February 29/12	28-10-00	605	June 20/13
28-00-00	206	February 29/12	28-10-00	606	June 20/13
28-00-00	301	February 15/15	28-10-00	607	June 20/13
28-00-00	302	February 15/15	28-10-00	608	June 20/13
28-00-00	303	February 15/15	28-10-00	701	February 15/15
28-00-00	304	February 15/15	28-10-00	702	February 15/15
28-00-00	305	February 15/15	28-10-00	703	February 15/15
28-00-00	306	February 15/15	28-10-00	704	February 15/15
28-00-00	307	February 15/15	28-10-00	705	February 15/15
28-00-00	308	February 15/15	28-10-00	706	February 15/15
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28-00-00	310	February 15/15	28-10-00	708	February 15/15
28-00-00	501	December 31/03	28-10-00	801	September 30/03
28-00-00	502	December 31/03	28-10-00	802	September 30/03
28-00-00	503	December 31/03	28-11-00	1	February 15/15
28-00-00	504	December 31/03	28-11-00	2	February 15/15
28-00-00	505	December 31/03	28-11-01	401	March 31/11
28-00-00	506	December 31/03	28-11-01	402	March 31/11
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28-10-00	4	September 30/03	28-11-01	604	November 30/10
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28-10-00	502	June 20/13	28-12-00	2	September 30/03
28-10-00	503	June 20/13	28-12-00	601	June 20/13
28-10-00	504	June 20/13	28-12-00	602	June 20/13
28-10-00	505	June 20/13	28-12-00	603	June 20/13
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28-13-00	3	June 30/04	28-15-01	603	March 31/04
28-13-00	4	June 30/04	28-15-01	604	March 31/04
28-13-01	601	June 30/04	28-15-05	401	August 30/09
28-13-01	602	June 30/04	28-15-05	402	August 30/09
28-13-01	801	September 30/03	28-15-05	403	August 30/09
28-13-01	802	September 30/03	28-15-05	404	August 30/09
*28-14-00	1	June 15/16	28-15-05	405	August 30/09
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*28-14-01	403	June 15/16	28-15-07	601	March 31/04
*28-14-01	404	June 15/16	28-15-07	602	March 31/04
***28-14-01	405	June 30/06	28-16-00	1	June 20/13
***28-14-01	406	June 30/06	28-16-00	2	June 20/13
28-14-01	501	June 30/06	28-16-00	3	June 20/13
28-14-01	502	June 30/06	28-16-00	4	June 20/13
28-14-01	801	June 30/06	28-16-00	501	August 30/09
28-14-01	802	June 30/06	28-16-00	502	August 30/09
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28-15-01	409	December 31/03	28-21-00	3	September 30/03
28-15-01	410	December 31/03	28-21-00	4	September 30/03
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28-21-00	509	December 31/03	28-22-07	501	August 30/09
28-21-00	510	December 31/03	28-22-07	502	August 30/09
28-21-00	511	December 31/03	28-22-07	503	August 30/09
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28-22-03	403	September 30/03	28-24-01	503	September 30/03
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28-24-03	502	December 31/03	*28-26-01	404	June 15/16
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28-24-03	504	December 31/03	*28-26-01	406	June 15/16
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28-24-03	506	December 31/03	*28-26-01	408	June 15/16
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28-25-01	403	September 30/03	28-26-01	505	April 30/10
28-25-01	404	September 30/03	28-26-01	506	April 30/10
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28-25-01	602	September 30/03	28-26-01	602	February 15/15
28-25-01	701	September 30/03	28-26-01	603	February 15/15
28-25-01	702	September 30/03	28-26-01	604	February 15/15
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28-26-00	514	January 15/10	28-26-07	406	September 30/03
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28-26-00	516	January 15/10	28-26-07	502	September 30/03
28-26-00	601	January 15/10	28-26-07	601	September 30/03
28-26-00	602	January 15/10	28-26-07	602	September 30/03
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28-26-00	604	January 15/10	*28-26-09	402	June 15/16
*28-26-01	401	June 15/16	*28-26-09	403	June 15/16
*28-26-01	402	June 15/16	*28-26-09	404	June 15/16

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*28-26-09	406	June 15/16	28-41-00	504	April 30/10
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28-26-09	503	February 15/15	28-41-00	507	April 30/10
28-26-09	504	February 15/15	28-41-00	508	April 30/10
28-26-11	401	December 31/03	28-41-00	509	April 30/10
28-26-11	402	December 31/03	28-41-00	510	April 30/10
28-26-11	403	December 31/03	28-41-00	511	April 30/10
28-26-11	404	December 31/03	28-41-00	512	April 30/10
28-26-11	501	February 15/15	28-41-00	513	April 30/10
28-26-11	502	February 15/15	28-41-00	514	April 30/10
28-26-11	503	February 15/15	28-41-00	515	April 30/10
28-26-11	504	February 15/15	28-41-00	516	April 30/10
28-26-11	505	February 15/15	28-41-00	517	April 30/10
28-26-11	506	February 15/15	28-41-00	518	April 30/10
28-26-13	401	September 30/03	28-41-00	601	February 15/15
28-26-13	402	September 30/03	28-41-00	602	February 15/15
28-26-13	403	September 30/03	28-41-00	603	February 15/15
28-26-13	404	September 30/03	28-41-00	604	February 15/15
28-26-13	405	September 30/03	28-41-00	605	February 15/15
28-26-13	406	September 30/03	28-41-00	606	February 15/15
28-26-13	407	September 30/03	28-41-00	607	February 15/15
28-26-13	408	September 30/03	28-41-00	608	February 15/15
28-26-13	409	September 30/03	28-41-00	609	February 15/15
28-26-13	410	September 30/03	28-41-00	610	February 15/15
28-26-13	601	September 30/03	28-41-00	611	February 15/15
28-26-13	602	September 30/03	28-41-00	612	February 15/15
28-26-13	603	September 30/03	28-41-01	401	June 20/13
28-26-13	604	September 30/03	28-41-01	402	June 20/13
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28-40-00	4	October 30/06	28-41-03	406	April 30/10
28-41-00	1	July 31/12	28-41-03	407	April 30/10
28-41-00	2	July 31/12	28-41-03	408	April 30/10
28-41-00	3	July 31/12	28-41-03	701	August 30/09
28-41-00	4	July 31/12	28-41-03	702	August 30/09
28-41-00	5	July 31/12	28-41-05	401	February 15/15
28-41-00	6	July 31/12	28-41-05	402	February 15/15
28-41-00	501	April 30/10	28-41-05	403	February 15/15
28-41-00	502	April 30/10	28-41-05	404	February 15/15

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28-41-05	502	July 31/12
28-41-09	401	January 15/10
28-41-09	402	January 15/10
28-41-09	403	January 15/10
28-41-09	404	January 15/10
28-41-09	501	September 30/03
28-41-09	502	September 30/03
28-41-09	503	September 30/03
28-41-09	504	September 30/03
28-41-11	301	September 30/03
28-41-11	302	September 30/03
28-41-11	401	September 30/03
28-41-11	402	September 30/03
28-41-11	403	September 30/03
28-41-11	404	September 30/03
28-41-11	501	June 20/13
28-41-11	502	June 20/13
28-43-00	1	September 30/03
28-43-00	2	September 30/03
28-43-00	3	September 30/03
28-43-00	4	September 30/03
28-43-01	401	October 31/11
28-43-01	402	October 31/11
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FUEL BOOST PUMPS — INSPECTION / CHECK

1. Fuel Boost Pumps — Inspection

A. Preparation

(1) Reference

- Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices

(2) Aircraft Preparation

- (a) Prepare aircraft for safe ground maintenance. See Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices.

B. Inspection

WARNING: FAILURE TO INSTALL ALL LANDING GEAR AND LANDING GEAR DOOR SAFETY DEVICES BEFORE WORKING IN ANY WHEEL WELL MAY RESULT IN SERIOUS INJURY OR DEATH.

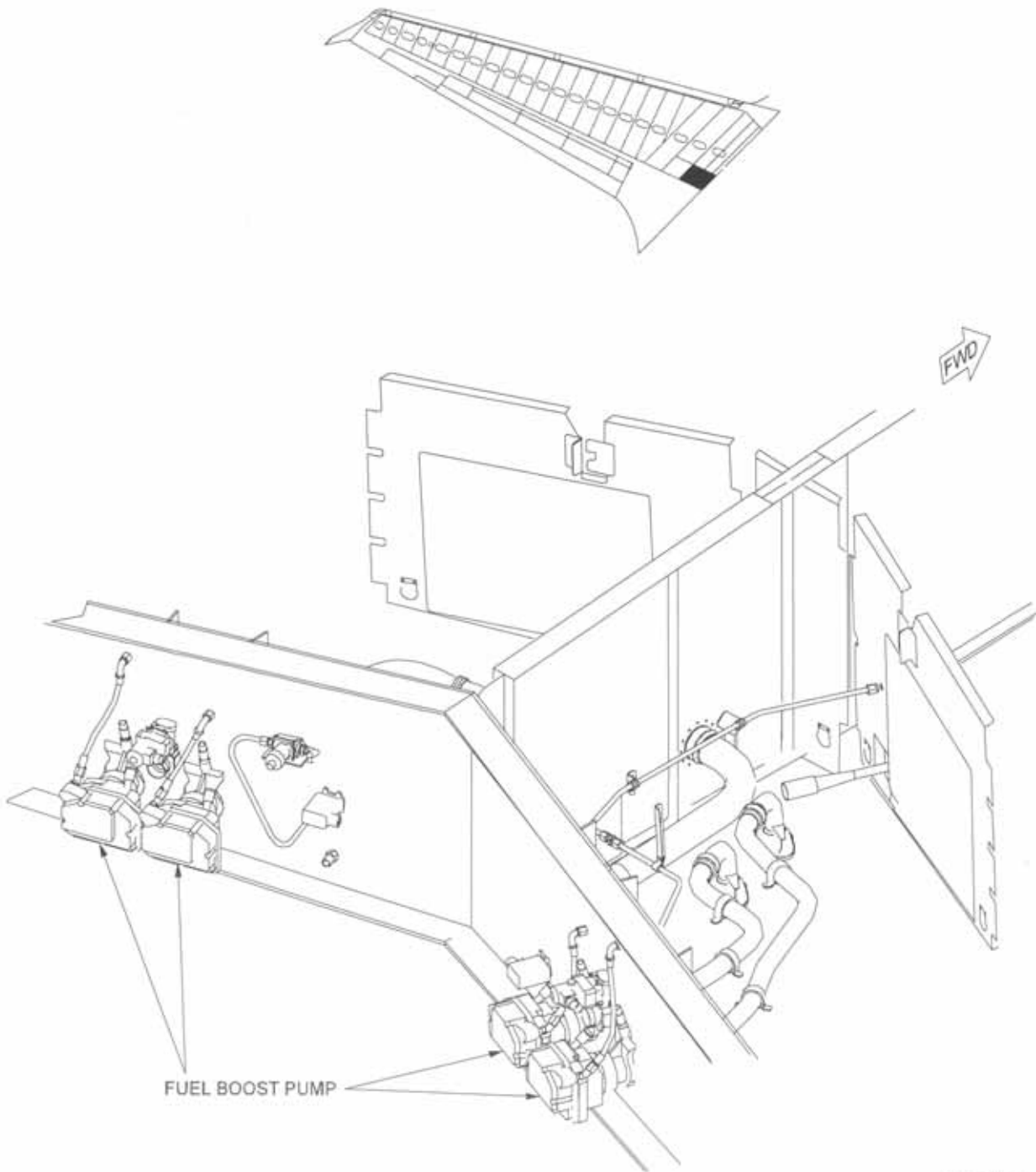
NOTE: The following procedure is used in conjunction with Figure 601.

- (1) Gain access to fuel boost pumps in left and right main wheel wells.
- (2) Visually inspect fuel boost pumps for damage.
- (3) Verify fuel boost pumps are serviceable as follows:
 - (a) Inspect fuel boost pumps for leaks.
 - (b) Inspect fuel boost pumps for cracks.
 - (c) Inspect fuel boost pump line connections for leaks.
 - (d) Inspect fuel boost pump line connections for cracks.

C. Follow On

- (1) Inspect for presence of foreign objects.
- (2) Record all maintenance actions in accordance with current governing authority.

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15751B00

Fuel Boost Pumps
Figure 601

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2. Fuel Boost Pumps — Fuel Leak Check

NOTE: This procedure is only effective on Aircraft with Fuel Boost Pump, 1159SCP500-7.

A. Preparation

SPECIAL TOOLS AND TEST EQUIPMENT

Torque wrench, 0 - 300 inch-pounds (0 - 33.90 Nm) GSE5101082 or equivalent
Torque wrench, 100 - 600 inch-pounds (11.30 - 67.79 Nm) GSE5100726 or equivalent
Container, approved for fuel Standard

CONSUMABLES

Safety wire MS20995C32
O-ring, adapter NAS1612-8A
O-ring, bleeder plug NAS1612-3A

NOTE: Refer to appropriate IPC for all part numbers.

(1) Reference

- Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices
- Fuel Boost Pump - Removal / Installation, 28-26-01, Removal / Installation or Code 282001

(2) Aircraft Preparation

- (a) Prepare aircraft for safe ground maintenance. See Safe Ground Maintenance Procedure, 20-00-00, Maintenance Practices.

B. Inspection

WARNING: FAILURE TO INSTALL ALL LANDING GEAR AND LANDING GEAR DOOR SAFETY DEVICES BEFORE WORKING IN ANY WHEEL WELL MAY RESULT IN SERIOUS INJURY OR DEATH.

NOTE: The following procedure is used in conjunction with Figure 602.

- (1) Gain access to fuel boost pump in main wheel well.
- (2) Remove safety wire from bleeder plug (2).
- (3) Clean area around bleeder plug (2).
- (4) Remove bleeder plug (2).

NOTE: It may be necessary to hold a small container below port to catch any fluid.

- (a) If there is any fluid leakage, replace pump (1). See Fuel Boost Pump - Removal / Installation, 28-26-01, Removal / Installation or Code 282001.

CAUTION: DO NOT INSERT OBJECTS INTO INSPECTION PORT. DAMAGE TO INTERNAL ELECTRONIC COMPONENTS MAY OCCUR.

- (b) If there is no fluid leakage, inspect the bleeder plug (2) and port for moist areas. If moist area is found, replace pump (1). See Fuel Boost Pump - Removal / Installation, 28-26-01, Removal / Installation or Code 282001.
- (5) Inspect bleeder plug (2) and adapter (3) for damage.
 - (a) If damage to adapter (3) is found:
 - 1 Remove safety wire and replace adapter (3).

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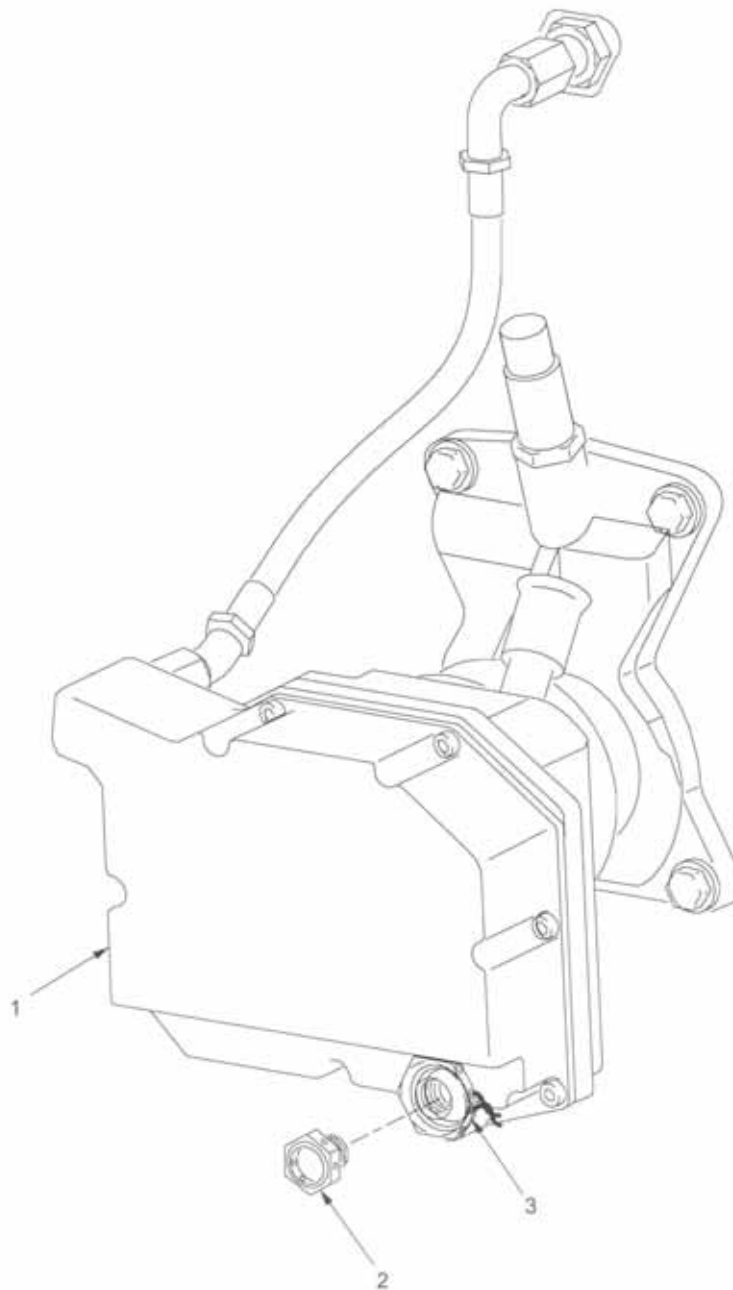
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- 2 Install adapter (3) and new o-ring.
 - 3 Torque to 280 - 290 inch-pounds (31.63 - 32.77 Nm).
 - 4 Safety wire adapter (3) to pump cover.
- (b) If damage to bleeder plug (2) is found:
- 1 Remove safety wire and replace bleeder plug (2).
 - 2 Install bleeder plug (2) and new o-ring.
 - 3 Torque to 80 - 100 inch-pounds (9.04 - 11.30 Nm).
 - 4 Safety bleeder plug (2) to pump cover.

C. Follow On

- (1) Inspect for presence of foreign objects.
- (2) Record all maintenance actions in accordance with current governing authority.

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Fuel Boost Pump - Inspection Port
Figure 602

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