

# Gulfstream

## TRANSMITTAL SHEET

This sheet transmits Revision A, dated December 20, 2010, to Gulfstream V Alert Customer Bulletin (ACB) 30, dated December 6, 2010, titled Fire Protection (ATA 26), Inspection – Third Engine Fire Bottle Installation.

### Reason for Revision

#### **Planning Information –**

Description Statement Updated: The Airplane Flight Manual Supplement (AFMS) number called out in the customer bulletin is incorrect. Is; GC51 628M001, should be CE51 628M001. The correct AFMS was attached to the original issue of this alert customer bulletin, only the number call-out in the text was incorrect.

Compliance Statement Updated: Operators who have previously complied with the original version of ACB 30 may report this revision as “Previously complied with”. Additionally, operators with mounted spare engine fire bottle installations have the option to retain the mounted spares in service by incorporating the attached AFMS.

References updated: Changed AFMS number GC51 628M001 to CE51 628M001.

#### **Accomplishment Instructions –**

Step III.B. is updated: Change AFMS number GC51 628M001 to CE51 628M001. Clarifies options for operators with mounted engine fire bottle spares to either remove the spare bottle with no APU limitations or retain the mounted spare in service by incorporating the AFMS.

This is a **REVISION** of Gulfstream V Alert Customer Bulletin 30. This alert customer bulletin revision cancels and supersedes ACB 30. Aircraft operators who have previously complied with ACB 30 are in compliance with this revision and should return the service reply cards marked “Previously complied with.”

**Note:** Operators who have previously complied with Part II of ACB 30 by removing their mounted engine fire bottle spares may reinstall them by incorporating the attached AFMS and reporting compliance with Part II of this alert customer bulletin revision.

### List of Effective Pages

#### Page Nos.

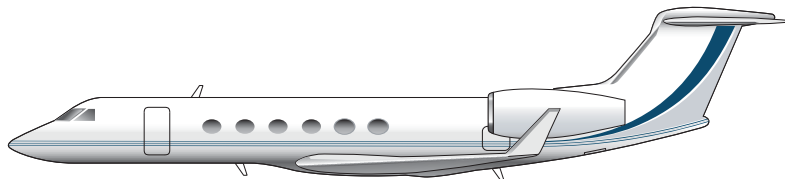
#### Date

1-3

December 20, 2010

Previous revisions to Alert Customer Bulletin 30:

None



**ALERT**  
**CUSTOMER BULLETIN**

NUMBER 30A

---

**SUBJECT**

FIRE PROTECTION (ATA 26)

INSPECTION – THIRD ENGINE FIRE BOTTLE  
INSTALLATION

---

DECEMBER 20, 2010

*"December 20, 2010"***Fire Protection (ATA 26), Inspection – Third Engine Fire Bottle Installation****I. Planning Information:****A. Effectivity:**

All GV aircraft

**B. Reason:**

Some GV aircraft have been outfitted with a third engine fire extinguisher bottle installed as either a dedicated Auxiliary Power Unit (APU) fire extinguisher bottle by Supplemental Type Certificate (STC) ST01822AT-D (Installation of an APU Fire Bottle), or as a mounted engine fire bottle spare under Federal Aviation Administration (FAA) approval means other than this STC. Gulfstream has determined that current installation of the third fire extinguisher bottle is located within the APU rotor burst fragment zone. This configuration does not meet the requirements of the Code of Federal Regulations (CFR) 14, 25.901, 903 and Advisory Circular (AC) 20-128A.

**C. Description:**

This alert customer bulletin is divided into two parts:

Part I is a one-time action to inspect for, and report, the installation of a third engine fire extinguisher bottle.

Part II, if applicable, is a one-time action to incorporate Airplane Flight Manual Supplement (AFMS) CE51 628M001 into the Airplane Flight Manual (AFM) to provide limitations for APU operation. Operators have the option to remove any mounted spare fire bottles (not APU dedicated) and avoid the incorporation of APU limitations.

**D. Compliance:**

Compliance with this alert customer bulletin revision is required with 21 days of the release date of the original alert customer bulletin dated December 6, 2010.

Operators who have previously complied with ACB 30 may report this alert customer bulletin as "Previously complied with". Operators who have previously removed their mounted spare engine fire bottles have the option to reinstall them by complying with Part II of this alert customer bulletin and incorporating the AFMS as directed.

**E. Approval:**

This modification is classified as Minor, and is approved by the Federal Aviation Administration (FAA).

**F. Manpower:**

Part I	-	0.5 man-hour
Part II (if applicable)	-	1.0 man-hour

**G. Materials:**

None

*"December 20, 2010"***H. References:**

- GV Aircraft Maintenance Manual (AMM), Chapters 20 and 26
- Airplane Flight Manual Supplement (AFMS) CE51 628M001 (attached)

**I. Tooling/Equipment:**

Standard aircraft maintenance tools

**J. Opportunity for No Charge Compliance.**

The labor to comply with this alert customer bulletin will be provided at no charge if performed at a Gulfstream V Authorized Warranty Repair Facility within the compliance time stated in this document.

**Note:** Additional labor hours incurred due to aircraft configuration or mechanical difficulties must be charged on a separate work order and submitted for warranty consideration.

**K. Weight and Balance:**

For GV aircraft where fire bottle removal (non-STC installations) is accomplished, the following weight and balance change must be recorded:

Bottle weight – 11.1 lbs

Arm – 852.2"

Moment - 9459

**Part I****II. Accomplishment Instructions:**

**CAUTION:** PROTECT WIRE BUNDLES, CONNECTORS AND SURROUNDING STRUCTURE DURING ANY MAINTENANCE PROCEDURE FROM SHAVINGS, DEBRIS AND CONTAMINATION. MAINTAIN A PROPERLY CLEANED WORK AREA THROUGHOUT THE PROCEDURE TO ENSURE THE INTEGRITY OF THE AFFECTED COMPONENT / SYSTEM. VISUALLY INSPECT WORK AREA USING ADDITIONAL LIGHT AS NECESSARY TO VERIFY ABSENCE OF ANY DEBRIS PRIOR TO COMPLETION OF PROCEDURE. FAILURE TO COMPLY MAY RESULT IN DAMAGE TO COMPONENTS AND / OR SYSTEMS.

- A. Prepare the aircraft for safe maintenance. Refer to AMM, Safe Ground Maintenance Procedure, Chapter 20.
- B. Inspect aircraft to determine if a third engine fire bottle has been installed. This may be done by visual inspection (see figures 1 and 2) or by aircraft records review.

*"December 20, 2010"*

- C. If a third bottle is not installed, report Part I of this alert customer bulletin as "Not applicable, Appliance not installed". Report Part II of this alert customer bulletin as "Not applicable".
- D. If a third bottle is installed, report Part I of this alert customer bulletin as "Complied with". Annotate on the Part I service reply card whether the bottle is installed as a dedicated APU bottle or as a spare. Comply with Part II of this alert customer bulletin.
- E. Ensure work area is clean and clear of foreign objects (FOD).
- F. Record compliance with Part I of this alert customer bulletin in the aircraft's permanent maintenance records and return aircraft to flight status.
- G. Report compliance with Part I of this alert customer bulletin to Gulfstream Computerized Maintenance Program (CMP) via electronic transmittal or fill out and fax the attached service reply card.

### **Part II**

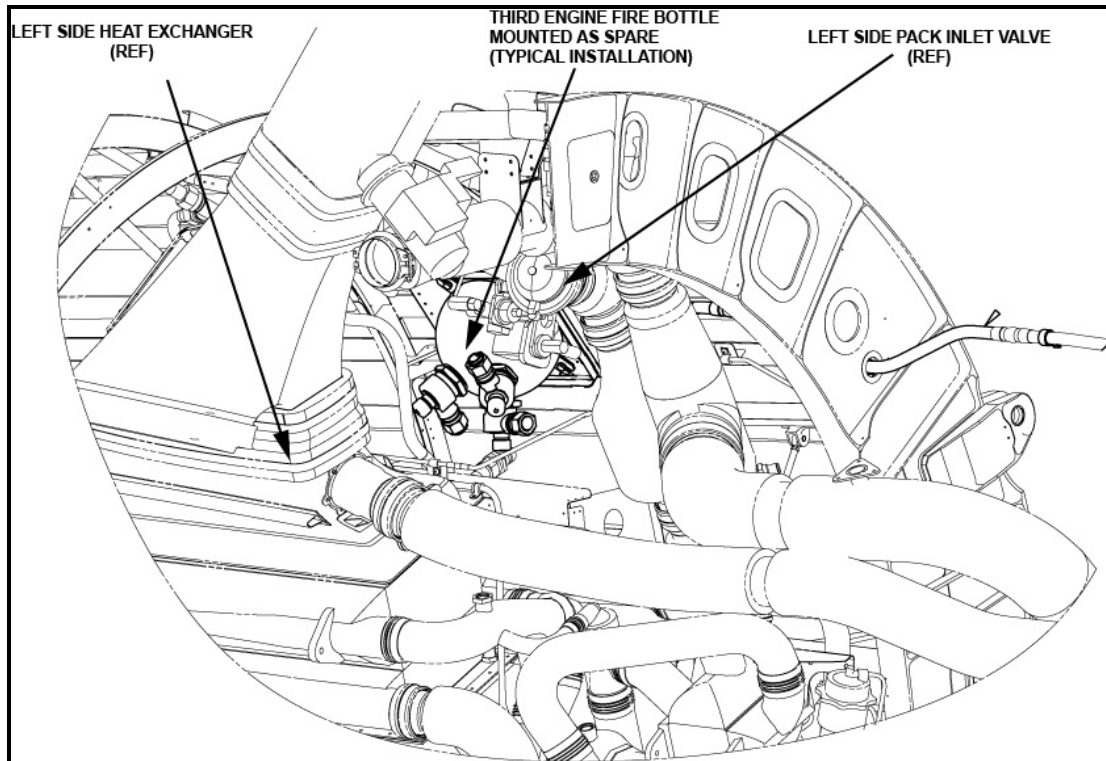
#### **III. Accomplishment Instructions:**

**CAUTION:** PROTECT WIRE BUNDLES, CONNECTORS AND SURROUNDING STRUCTURE DURING ANY MAINTENANCE PROCEDURE FROM SHAVINGS, DEBRIS AND CONTAMINATION. MAINTAIN A PROPERLY CLEANED WORK AREA THROUGHOUT THE PROCEDURE TO ENSURE THE INTEGRITY OF THE AFFECTED COMPONENT / SYSTEM. VISUALLY INSPECT WORK AREA USING ADDITIONAL LIGHT AS NECESSARY TO VERIFY ABSENCE OF ANY DEBRIS PRIOR TO COMPLETION OF PROCEDURE. FAILURE TO COMPLY MAY RESULT IN DAMAGE TO COMPONENTS AND / OR SYSTEMS.

- A. Prepare the aircraft for safe maintenance. Refer to AMM, Safe Ground Maintenance Procedure, Chapter 20.
- B. Comply with one of the following two options:
  - 1. For aircraft with a dedicated APU engine fire bottle, and for operators choosing to retain the mounted engine fire bottle spare; incorporate AFMS CE51 628M001 into the AFM.
  - 2. For aircraft with spare mounted engine fire bottle configuration, operators have the option to remove the spare bottle from the mounted location and store as required by local regulations, thereby not incurring any APU operational limitations. With removal of the spare mounted engine fire bottle, AFMS incorporation is not required.
- C. Record compliance with Part II of this alert customer bulletin in the aircraft's permanent maintenance records and return aircraft to flight status.
- D. Report compliance with Part II of this alert customer bulletin to Gulfstream CMP via electronic transmittal or fill out and fax the attached service reply card.

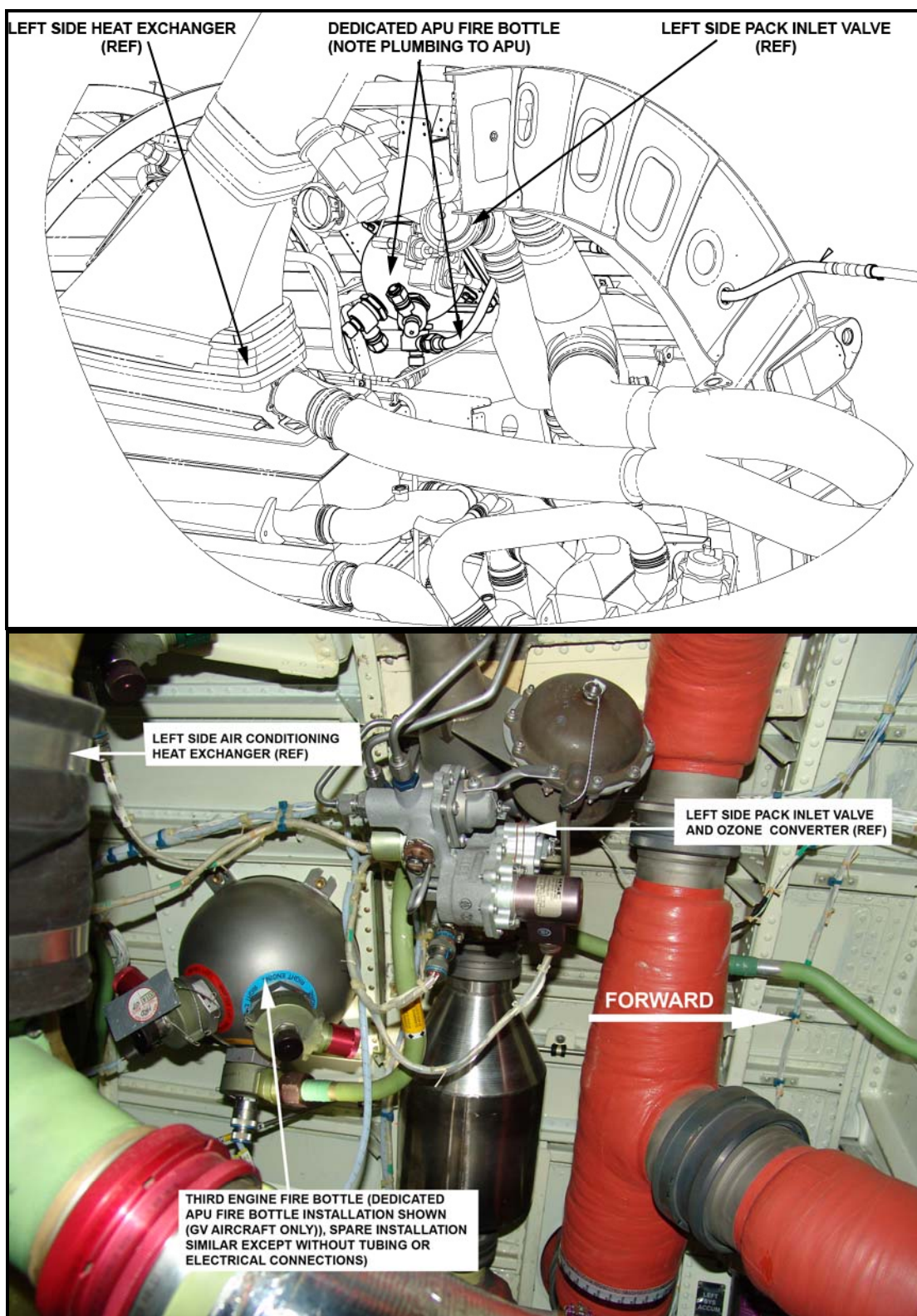
If technical assistance is required, contact your area Gulfstream Field Service Representative or call Gulfstream Customer Support at 800-810-GULF (4853) or 912-965-4178 (fax 912-965-4184).

*"December 20, 2010"*



Third Engine Fire Bottle, Spare Mount Configuration (view looking outboard, left side)

**Figure 1**

*"December 20, 2010"*

Third Engine Fire Bottle, Dedicated APU Fire Bottle (view looking outboard, left side)

**Figure 2**

*"December 20, 2010"*

## Part I Service Reply Card

Please fax this page to Gulfstream CMP at 800-944-1775 or 912-963-0265.

The following **Alert Customer Bulletin** (ACB) has been addressed:

CB Number	A/C	A/C Type	Compliance Date
990302		GV	

Aircraft Hours \_\_\_\_\_

Aircraft Landings \_\_\_\_\_

### Third Fire Bottle Installation (check one)

Dedicated APU	
Spare Only	

This **Alert Customer Bulletin** is not applicable because:

\_\_\_\_\_ Serial Number not affected

\_\_\_\_\_ Appliance not installed

\_\_\_\_\_ Previously complied with

Signature	Title/Certificate Number	Company

### Comments / Suggestions:


Customer Bulletin prepared by Gulfstream Aerospace, 500 Gulfstream Road, P.O. Box 2206, Savannah, Georgia 31402-2206, USA.

© 2010 Gulfstream Aerospace.

All rights reserved, including the right to reproduce this publication. No part may be reproduced, stored in any retrieval system, or transmitted in any part or form or by any means, electronic, photocopying, microfilm, microfiche, mechanical, or otherwise, without prior written permission of Gulfstream Aerospace.

**This technical data is controlled under the Export Administration Regulations by General License TSU. It may not be transferred to a third party without the prior written approval of the U.S. Department of Commerce.**

*"December 20, 2010"*

## Part II Service Reply Card

Please fax this page to Gulfstream CMP at 800-944-1775 or 912-963-0265.

The following **Alert Customer Bulletin** (ACB) has been addressed:

CB Number	A/C	A/C Type	Compliance Date
990303		GV	

Aircraft Hours \_\_\_\_\_

Aircraft Landings \_\_\_\_\_

**Action Taken:**

Incorporated AFMS \_\_\_\_\_

Removed Spare \_\_\_\_\_

This **Alert Customer Bulletin** is not applicable because:

\_\_\_\_\_ Serial Number not affected

\_\_\_\_\_ Appliance not installed

\_\_\_\_\_ Previously complied with

Signature	Title/Certificate Number	Company

**Comments / Suggestions:**


Customer Bulletin prepared by Gulfstream Aerospace, 500 Gulfstream Road, P.O. Box 2206, Savannah, Georgia 31402-2206, USA.

© 2010 Gulfstream Aerospace.

All rights reserved, including the right to reproduce this publication. No part may be reproduced, stored in any retrieval system, or transmitted in any part or form or by any means, electronic, photocopying, microfilm, microfiche, mechanical, or otherwise, without prior written permission of Gulfstream Aerospace.

**This technical data is controlled under the Export Administration Regulations by General License TSU. It may not be transferred to a third party without the prior written approval of the U.S. Department of Commerce.**

**GULFSTREAM AEROSPACE  
GV/GV-SP AIRPLANE FLIGHT MANUAL  
SUPPLEMENT CE51 628M001**

Gulfstream Aerospace Corporation  
500 Gulfstream Rd  
Savannah, GA 31408

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR


GULFSTREAM MODEL GV/ GV-SP

REGISTRATION NO.: \_\_\_\_\_

SERIAL NO.: \_\_\_\_\_

This document supplements the GV Airplane Flight Manual for aircraft that were altered by STC ST01822AT-D or that received a non dedicated spare fire bottle installation. In addition, this document will supplement the GV-SP Airplane Flight Manual for aircraft that received a non dedicated spare fire bottle installation.

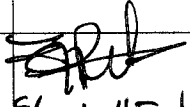
This information contained herein supplements or supersedes the information of the basic Airplane Flight Manual which should be consulted for Limitations, Normal, Abnormal and Emergency Procedures, and Performance information not contained in this supplement.

  
For William S. Whitton, Jr.  
ODA Lead Administrator  
Gulfstream Aerospace Corporation  
Gulfstream ODA-511131-CE

Date: December 20, 2010

**GULFSTREAM AEROSPACE  
GV/GV-SP AIRPLANE FLIGHT MANUAL  
SUPPLEMENT CE51 628M001**

**LOG OF REVISIONS**

Revision	Affected Pages	Description of Revision	Approval
A	All	Addition of the Gulfstream model GV-SP and installation of a spare fire extinguisher bottle under any FAA approval means.	 For Bill Witham

**GULFSTREAM AEROSPACE  
GV/ GV-SP AIRPLANE FLIGHT MANUAL  
SUPPLEMENT CE51 628M001**

**TABLE OF CONTENTS  
GENERAL**

SECTION 0: PREFACE .....	4
SECTION 1: LIMITATIONS .....	4
SECTION 2: NORMAL PROCEDURES.....	4
SECTION 3: ABNORMAL PROCEDURES .....	4
SECTION 4: EMERGENCY PROCEDURES .....	4
SECTION 5: PERFORMANCE .....	4

**GULFSTREAM AEROSPACE  
GV/GV-SP AIRPLANE FLIGHT MANUAL  
SUPPLEMENT CE51 628M001**

**SECTION 0: PREFACE**

No Change

**SECTION 1: LIMITATIONS**

Under 1-49-10: APU Operation, add second paragraph to read:

For GV and GV-SP aircraft that have been altered with the installation of a dedicated APU Fire Extinguisher Bottle, or a non dedicated Spare Fire Bottle unattended ground operation of the Auxiliary Power Unit (APU); and use of the APU during flight, is prohibited except for the following conditions:

- Dual engine flameout during flight
- Dual generator failure during flight
- Single engine failure during flight
- Single generator failure during flight

For aircraft that have been altered with the installation of an APU Fire Extinguisher Bottle, or a Spare Fire Bottle, dispatch is not permitted with any engine generator inoperable.

**SECTION 2: NORMAL PROCEDURES**

No Change

**SECTION 3: ABNORMAL PROCEDURES**

No Change

**SECTION 4: EMERGENCY PROCEDURES**

No Change

**SECTION 5: PERFORMANCE**

No Change