

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* ST02174CH

*This certificate issued to*

Mayday Avionics  
5500 44<sup>th</sup> Street, SE  
Grand Rapids, MI 49512-8316

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations. (See Sheet 3 for complete certification basis)*

*Original Product--Type Certificate Number:* A12EA

*Make:* Gulfstream

*Model:* GV

*Description of Type Design Change:*

Upgrade of a Honeywell Mark V Enhanced Ground Proximity Warning System to add the Runway Awareness Advisory System (RAAS) in accordance with Mayday Avionics Master Data List G5-3442-0001-01, Rev. A, dated July 29, 2005, or later FAA approved revision.

*Limitations and Conditions:*

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. FAA Approved Flight Manual Supplements, Mayday Avionics Document G5-3442-0001-100, Revision -, approved August 01, 2005 or later FAA approved revision and Mayday Avionics Document G5-3442-0001-101, Revision - approved August 01, 2005 or later FAA approved revision are a required part of this STC.
3. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* February 08, 2005

*Date reissued:*

*Date of issuance:* August 02, 2005

*Date amended:*



*By direction of the Administrator*

(Signature)

Charles L. Smalley, Manager  
Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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**Supplemental Type Certificate**  
(Continuation Sheet)

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Date of Issuance: August 02, 2005

**Certification Basis (continued)**

The certification basis for the Gulfstream GV identified on page 1 of this certificate is as follows:

- a. The type certification basis for the Gulfstream GV identified on Page 1 of this certificate is shown on TCDS A12EA for parts not changed or not affected by this change.
- b. The type certification basis for the parts changed or affected by this change since the reference date of application , February 08, 2005, is shown on TCDS A12EA. Additionally, the applicant has voluntarily complied with 14 CFR Part 25 as amended by Amendment 25-117.

**Applicable Regulations at the latest amendment 25-0 through 25-117**

25.1301(a), (b), (c), (d); 25.1309(a), (b), (c), (d), (e), (f), (g); 25.1322(a), (b), (c); 25.1353(a), (b); 25.1357(a), (c); 25.1431(a), (c), (d); 25.1501(a), (b); 25.1529; 25.1581(a), (b), (d); 1585(a), (b).

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