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1. INTRODUCTION

1.1 Purpose

The purpose of this document is to list the data required to support STC installation of the Garmin G600 PFD/MFD System in accordance with G600 AML STC requirements, and to list other data associated with the STC which is not required for installation.

1.2 Scope

This document applies to the installation of the G600 PFD/MFD System when installed in accordance with the data listed in this document on the Approved Model List aircraft as defined for this STC. This document includes general installation requirements, special installation instructions, and it provides an index of STC data including both data required for installation and data associated with the STC, but not required for installation.

The G600 system requires a Garmin GNS Series or GNS 480 WAAS GPS navigator to be installed, but installation of the navigator is not covered by the G600 STC. Reference section 3.2 of this document for more information.

1.3 Document Revision

This document shall be released, archived, and controlled in accordance with Garmin document control system. As such when this and other documents are revised, the entire document is revised and the new revision nomenclature is changed on each page of the revised document.

1.4 Definitions

The following terminology is used within this document:

- 1) **AC:** Advisory Circular
- 2) **AML:** Approved Model List
- 3) **DER:** Designated Engineering Representative
- 4) **FAA:** Federal Aviation Administration
- 5) **FARs:** Federal Aviation Regulations
- 6) **STC:** Supplemental Type Certificate

2. DATA AND EQUIPMENT LIST REQUIRED FOR INSTALLATION

2.1 Data Required for Installation

2.1.1 G600 Installation Data

All documents listed in Table 1 are required for installation purposes for installations of the G600 system. All documents must be of the revision listed or later FAA approved revisions.

Mfg.	Doc No.	Rev	Description
Garmin	005-C0313-00	A	G600 AML STC Master Data List (this document)
Garmin	190-00601-00	A	G600 PFD/MFD System Instructions for Continued Airworthiness
Garmin	190-00601-06	A	G600 AML STC Installation Manual
Garmin	190-00601-01	A	G600 PFD/MFD System AFMS

Table 1 STC Data (New Installations)

2.1.2 Continued Airworthiness

Instructions for continued airworthiness are found in Garmin document number 190-00601-00 *G600 PFD/MFD System Instructions for Continued Airworthiness*. See Table 1 for document revision.

2.2 Substantiating Data

The documents listed in Table 2, or later FAA-approved revisions, contain information related to this STC but are not required for follow-on installations.

Doc No.	Rev	Description
005-00313-00	3	G600 Avionics Display System Project Specific Certification Plan
005-00313-01	2	G600 AML STC Compliance Summary Document
005-00313-05	2	G600 Functional Hazard Assessment
005-00313-06	1	G600 System Safety Assessment
005-00313-03	1	G600 STC Certification Ground Test Plan
005-00313-02	1	G600 STC Certification Flight Test Plan
005-00313-07	1	Model Qualification Process for the G600 AML STC
005-00313-08	2	Acceptance Analysis for Aircraft on the G600 STC AML
005-00313-68	A	HIRF & Lightning Compliance Report for G600 System
005-00313-69	2	Structural Compliance Report

Table 2 Related Data (Substantiating Data)

2.3 Equipment List

All equipment must have the part numbers and software versions contained in Table 3, or later FAA-approved revisions or versions. Table 4 lists equipment which is optional for the G600 installation.

Model	Description	Part Number	Mfg.	Software Ver. (or later FAA approved version)	
OR	GDU 620	PFD/MFD Display Unit, Black Bezel	011-01264-00	Garmin	2.01
	GDU 620	PFD/MFD Display Unit, Gray Bezel	011-01264-10	Garmin	2.01
	GRS 77	Attitude Heading Reference System	011-00868-10	Garmin	2.11
	GDC 74A	Air Data Computer	011-00882-10	Garmin	3.02
	GMU 44	Magnetometer	011-00870-00	Garmin	2.01
	GTP 59	Outside Air Temperature Probe	011-00978-00	Garmin	N/A

Table 3 Required Equipment List

Model	Description	Part Number	Mfg.
	Sub-Assy, Kit GRS 77 Universal Mount	011-01780-00	Garmin
	Sub-Assy, Kit GMU 44 Universal Mount	011-01779-01	Garmin
4300	3 1/8" Electric ADI	4300-4()	Mid-Continent
4200	2 1/4" Electric ADI [Must be used with MD420]	4200-()	Mid-Continent
MD420	Emergency Battery Pack [Required for use of 4200 ADI]	MD420	Mid-Continent
	2 1/4" Airspeed Indicator	25020-0179 (200 kts) 25025-0177 (250 kts) 25035-0181 (350 kts) 25040-0180 (400 kts)	Aerosonic
	2 1/4" Altimeter	15035-0110x (35k ft) 16550-11xx (50k ft)	Aerosonic

Table 4 Optional Equipment List

3. GENERAL INSTALLATION REQUIREMENTS

3.1 General

The installation must be done in accordance with all applicable FARs. The installation shall conform to the data listed in Section 2.1, Data Required for Installation, with exception of special instructions as defined in Section 4 Special Installation Instructions, which shall have precedence over the data listed in Section 2.1.

3.2 Prerequisite

This G600 STC requires a Garmin GNS Series or GNS 480 WAAS GPS navigator to be installed. This STC does not support installation of the WAAS navigator, but this STC does support the operational checks for the WAAS navigator functions used or supported by the G600. For installation of the WAAS navigator, use STC SA01933LA for the 400W/500W series, SA01229SE for the GNS 480, or follow aircraft manufacturer's installation data, or use another approval method. Table 5 lists the WAAS GPS Navigators that can be used with the G600.

Model	Description	Part Number	Mfg.	Software Ver. (or later FAA approved version)
400W Series	400W Series WAAS GPS Navigator	See Note 1	Garmin	3.10 Main
500W Series	500W Series WAAS GPS Navigator	See Note 2	Garmin	3.10 Main
GNS 480 (CNX80)	GNS 480 (CNX80) WAAS GPS Navigator	430-6100-800-002 or 430-6100-850-002	Garmin	2.2

Note 1: For 400W Series WAAS GPS Navigators part numbers, reference the Installation Manual, P/N 190-00356-02. All versions of the 400W Series are compatible with the G600.

Note 2: For 500W Series WAAS GPS Navigators part numbers, reference the Installation Manual, P/N 190-00357-02. All versions of the 500W Series are compatible with the G600.

Table 5 Required WAAS GPS Navigators

3.3 Mechanical

Mechanical installation, wiring, cable bundling and routing, and connections to existing aircraft systems must conform to those specific instructions or requirements found in the STC data. For those aspects of the STC where specific installation instructions or requirements are not provided in the STC data, the installer shall conform to the recommended practices and procedures found in AC 43.13-2A, Chapter 2, Radio Installations, and Chapter 11, Electrical Systems, Section 3, 4, and 7.

3.4 Hardware

Hardware not supplied with the equipment, or otherwise specified in the appropriate installation manuals or other STC data (ie screws, nuts, tie wrap...etc.) shall be from standard aircraft hardware as described by AC 43.13-1B, Chapter 7, Aircraft Hardware, Control Cables and Turnbuckles.

3.5 Wiring

All wire used in the installation, not specifically called out in the G600 Installation Manual, shall be of appropriate standard aircraft quality grade and size as described in AC 43.13-1B, Chapter 11, Sections 5-20.

3.6 Circuit Protection

All G600 modification circuits shall be protected in accordance with AC 43.13-1B, Chapter 11, Section 4, Circuit Protection Devices.

3.7 Electrical Load Analysis

An electrical load analysis shall be performed on each aircraft, as described in AC 43.13-1B, Chapter 11 Section 3. The document P/N 190-00601-06 *G600 AML STC Installation Manual* provides specifications on the G600 power requirements.

4. SPECIAL INSTALLATION INSTRUCTIONS

None.

5. ADDITIONAL SYSTEM NOTES

No other system notes.