ENSTROM F-28F/280FX OPERATOR'S MANUAL

AND

FAA APPROVED

ROTORCRAFT FLIGHT MANUAL

SUPPLEMENT

GARMIN GDL 69/69A XM WX SATELLITE WEATHER/RADIO RECEIVER

* * * * *

REPORT NO. 28-AC-032

HELICOPTER SERIAL NO.

HELICOPTER REGISTRATION NO.

* * * * *

THIS SUPPLEMENT MUST BE CARRIED IN THE HELICOPTER AT ALL TIMES IF EQUIPPED WITH THE GARMIN GDL 69/69A. CHAPTERS 1, 2, 3, AND 4 ARE FAA APPROVED.

ness FAA APPROVED BY

CHARLES L. SMALLEY, MANAGER CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION FEDERAL AVIATION ADMINISTRATION

FAA APPROVAL DATE: JANUARY 19, 2009

THE ENSTROM HELICOPTER CORPORATION 2209 22ND STREET MENOMINEE, MICHIGAN 49858-0490

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LOG OF REVISIONS

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APPROVED FOR THE MANAGER CHICAGO AIRCRAFT CERTIFICATION OFFICE CENTRAL REGION FEDERAL AVIATION ADMINISTRATION

Report No. 28-AC-032

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ENSTROM F-28F/280FX RFM SUPPLEMENT INTRO-1

INTRODUCTION

Intro-1. General

This supplement contains the operating instructions, procedures, and limitations for the Garmin GDL 69/69A. The supplement is divided into two basic parts, the FAA approved RFM Supplement and Supplemental Data provided by the Enstrom Helicopter Corporation (Enstrom). Chapters 1, 2, 3, and 4 make up the FAA approved RFM Supplement. It is required by Federal Regulations that this supplement be carried in the helicopter at all times if the Garmin GDL 69/69A unit is installed.

For additional information regarding the supplement format and text emphasis or definitions, refer to the Basic Flight Manual.

Abbreviations noted in this supplement are listed in Table Intro-1.

| CB | Circuit Breaker |
|--------|--------------------------------|
| METAR | Meteorological Aviation Report |
| NEXRAD | Next Generation Radar |

Intro-1. List of Abbreviations

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CHAPTER 1. OPERATING LIMITATIONS

1-1. General

1. The weather information displayed is limited to supplemental use only and may not be used in lieu of an official weather data source.

1-2. Pilot's Guide

1. The applicable Garmin documents listed in Table 1-1 must be available for the flight crew whenever the GDL 69/69A is used. If weather information is displayed on a Garmin GNS 400W or 500W series unit, refer to the 400W/500W Pilot's Guide Addendum. If weather information is displayed on a Garmin GMX 200, refer to the GMX 200 Pilot's Guide.

Table 1-1. Pilot's Guide References

| Garmin 400W/500W Series Optional Displays Pilot's Guide Addendum | P/N 190-00356-30 Rev. C (or later revisions) |
|--|---|
| Garmin GMX 200 Pilot's | P/N 190-00607-02 Rev. C |
| Guide and Reference | (or later revisions) |

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CHAPTER 2. NORMAL PROCEDURES

2-1. General

1. Pilot control of the GDL 69/69A is through the interfaced control and display unit. The normal operating procedures for the interfaced unit are described in the applicable Pilot's Guide listed in Table 1-1. The pilot shall review and clear all messages after power up.

2-2. Audio Suppression

1. The XM Satellite Radio audio is muted any time the LOW ROTOR RPM horn is activated, that is, when the rotor RPM is low and the collective is not full down.

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CHAPTER 3. EMERGENCY PROCEDURES

3-1. Electrical System Failure

1. Refer to the basic RFM.

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CHAPTER 4. PERFORMANCE DATA

4-1. General

1. Refer to the basic RFM.

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6-1

CHAPTER 6. WEIGHT/BALANCE AND LOADING

6-1. General

1. This installation is included in the basic aircraft weight. Refer to the basic RFM.

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CHAPTER 7. SYSTEM DESCRIPTION AND OPERATION

7-1. System Description

1. The GDL 69/69A unit is a remote datalink receiver that delivers XM WX Satellite WeatherTM to a Garmin navigation system such as the GNS 400W or 500W series or the GMX 200.

2. Data is provided through XM Satellite Radio's XM WX Weather Service using location-specific WxWorx information. Real time weather coverage is available at any altitude across the continental United States.

3. The GDL 69A interfaces with the cockpit audio panel control to provide XM Satellite Radio audio entertainment through the aircraft's audio system.

4. Power to the GDL 69/69A unit is provided via the **XM DL** circuit breaker (CB) (5 Amp) located on the lower panel.

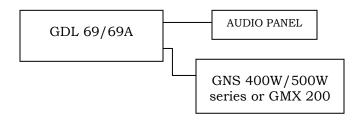


Figure 7-1. GDL 69/69A System Interface

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7-2. Operation

1. Before the GDL 69/69A can be used, the unit must be activated by XM Satellite Radio with a service subscription through XM Satellite Radio. The weather data link and the additional audio entertainment services must be activated separately.

2. Pilot control of the GDL 69\69A is through the interfaced control and display unit, such as the Garmin GNS 400W/500W series or GMX 200.

3. For additional information on GDL 69/69A data linked weather displays and interfaces, refer to the applicable Garmin Pilot's Guide listed in Table 1-1.

7-3. Weather

1. To reach the XM Weather page on the GNS 400W/500W series unit, press and hold the **CLR** key to select the Default NAV page display. Turn the small right knob to select the the XM Weather page (immediately following the MAP page). The XM Weather page can show NEXRAD weather data, colored flags showing which airports have METARs, Lightning (LTNG) reports, Cell Movement, or Winds Aloft.

2. To reach the XM Weather page on the GMX 200 unit, press the **FN** key and then the **FIS** function key when displayed. The **Crnt** function key provides additional weather sub-functions.

7-4. Radio

1. To reach the XM Radio pages on the GNS 400W/500W series unit, press and hold the **CLR** key to select the Default NAV page display. Turn the large right knob to select the AUX page group. Turn the small right knob to select the XM Audio function pages.

2. To reach the XM Radio pages on the GMX 200 unit, press the **FN** key and then the **XM** function key when displayed.