CHAPTER 97

AVIONICS

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CHAPTER 97

AVIONICS

97-00 Description

This chapter contains maintenance information for avionics equipment installed in the helicopter. These systems include communication and audio equipment, transponders and ADS-B equipment, navigation and GPS equipment, weather and datalink equipment, radar altimeter equipment, electronic flight instrument systems, and avionics data sources and interfaces.

The information in this chapter is intended for equipment installed at the factory or installed using approved RHC Kit instructions. Avionics equipment installed under a Supplemental Type Certificate or other approval not provided by RHC must be maintained in accordance with the Instructions for Continued Airworthiness supplied by the approval holder, except where those instructions specifically refer to this manual.

Avionics equipment varies by aircraft; refer to the applicable section for installed avionics.

97-10 Communication and Audio Systems

97-11 Garmin GTR 225B COM Radio

NOTE

Refer to Garmin GTR 225B Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The Garmin GTR 225B includes an airport frequency database, the ability to monitor the standby frequency, and user memory channels. This COM radio is a dual voltage unit, suitable for use in 14V and 28V systems.

B. Schematic

Refer to Figure 98-20A or B for applicable Garmin GTR 225B COM Radio Installation electrical schematic.

C. Removal

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Loosen radio key securing GTR 225B COM radio to avionics tray.
3. Carefully unplug and remove radio from tray.

97-11 Garmin GTR 225B COM Radio (continued)

D. Installation

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Carefully plug in and install GTR 225B COM radio in appropriate location in avionics tray.
3. Tighten radio key securing radio to tray. Verify equipment security.
4. Push in applicable COM radio (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GTR 225B Pilot's Guide. Turn battery & avionics switches off.

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE
Antenna installation depends on number of COM installations and additional equipment installed.

Removal

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Using plastic scraper, remove B270-1 sealant from around COM antenna at corners where it attaches to tailcone.
3. Disconnect antenna cable from antenna. As required, remove B270-13 sealant from fastener holes. Remove screws securing antenna to tailcone & remove antenna.

Installation

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from antenna mating surfaces to ensure electrical ground.
3. As required, apply light coat B270-13 sealant to screw threads and install screws securing antenna to tailcone. As required, seal around screw heads and fill fastener holes using B270-13 sealant and allow to dry. Verify security.
4. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to tailcone and allow to dry.
5. Connect antenna cable to antenna. Verify security.
6. Perform ground checks per Part D steps 4 and 5.

97-11 Garmin GTR 225B COM Radio (continued)

F. Scheduled Maintenance and Inspections

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (built-in test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to COM radio, radio tray, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and upper console. Perform ground checks per Part D steps 4 and 5.

97-12 Garmin GTR 205 COM Radio

> NOTE
>
> Refer to Garmin GTR 205x/GTR 205xR Installation Manual for functional-check information.

A. Description

The GTR 205 is a COM radio transceiver that has a high-resolution LCD display with 10W COM transmit power. Software enablement cards are available to allow for NVIS and 16W COM transmit power. The COM radio has pilot-controlled options of 8.33 kHz or 25 kHz channel spacing. Built-in Bluetooth® allows pairing up to eight Bluetooth-enabled devices. Only one active device connection is permitted at a time.

B. Schematic

Refer to Figure 98-20 for GTR 205 COM Radio Installation electrical schematic.

C. Removal

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Using a 3/32-inch hex-drive tool, loosen radio key locking GTR 205 COM radio to avionics tray.
3. Carefully unplug/remove COM radio from avionics tray.

D. Installation

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Carefully plug in and install GTR 205 COM radio in appropriate location in avionics tray.
3. Using a 3/32-inch hex-drive tool, tighten radio key to lock GTR 205 COM radio to avionics tray.
4. Push in applicable COM radio (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GTR 205x/GTR 205xR Installation Manual. Turn battery & avionics switches off.

97-12 Garmin GTR 205 COM Radio (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE
Antenna installation depends on number of COM installations and additional equipment installed.

Removal

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Using plastic scraper, remove B270-1 sealant from around COM antenna at corners where it attaches to tailcone.
3. Disconnect antenna cable from antenna. As required, remove B270-13 sealant from fastener holes. Remove screws securing antenna to tailcone & remove antenna.

Installation

1. Turn battery switch off and pull out applicable COM radio (5 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from antenna mating surfaces to ensure electrical ground.
3. As required, apply light coat B270-13 sealant to screw threads and install screws securing antenna to tailcone. As required, seal around screw heads and fill fastener holes using B270-13 sealant and allow to dry. Verify security.
4. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to tailcone and allow to dry.
5. Connect antenna cable to antenna. Verify security.
6. Push in applicable COM radio (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
7. Change frequency to local ATIS and confirm COM is receiving. Turn battery & avionics switches off.

97-12 Garmin GTR 205 COM Radio (continued)

F. Scheduled Maintenance and Inspections

NOTE
All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (built-in test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE
Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to COM radio, avionics tray, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Close and secure circuit breaker panel and upper console. Turn battery & avionics switches on.
4. Change frequency to local ATIS and confirm COM is receiving. Turn battery & avionics switches off.

97-13 Garmin GMA 350H and 350Hc Audio Panel

A. Description

The GMA 350H and 350Hc audio panels provide five-place intercom functionality and audio switching between each connected COM radio, and switching auxiliary input via jack or Bluetooth® (GMA 350Hc only).

B. Schematic

Refer to Figures 98-24, 98-25A, and 98-25B for applicable Audio Panel Installation electrical schematics.

C. Removal

1. Turn battery switch off and pull out AUDIO PANEL (5 amp) circuit breaker on circuit breaker panel.
2. Using a 3/32-inch hex-drive tool, loosen radio key locking GMA audio panel to avionics tray. Carefully remove and unplug GMA audio panel.

D. Installation

1. Turn battery switch off and pull out AUDIO PANEL (5 amp) circuit breaker on circuit breaker panel.
2. Carefully plug in and install GMA audio panel in appropriate location in avionics tray.
3. Using a 3/32-inch hex-drive tool, tighten radio key to lock GMA audio panel to avionics tray.
4. Push in AUDIO PANEL (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate checks per Garmin GMA 350, GMA 350H, GMA 350Hc, GMA 350c Installation Manual.

97-20 Transponders and ADS-B Systems

Automatic Dependent Surveillance-Broadcast (ADS-B) "Out" equipment transmits aircraft-specific data and GPS-derived position information to air traffic control. ADS-B "In" equipment receives data from other aircraft and/or from air traffic control. ADS-B In equipment is not required for R66 operation in the United States. The R66 may be equipped with ADS-B Out, or with ADS-B Out & ADS-B In systems.

ADS-B equipment is programmed with aircraft-specific data at installation. ADS-B systems use the primary installed GPS for position information. Additional flight-specific data are entered by the pilot using transponder controls. ADS-B Out equipment installed at the factory operates on frequency 1090 MHz.

The ADS-B In system receives data on frequencies 978 MHz and 1090 MHz. Received data are displayed on the primary GPS screen.

ADS-B Out system faults are annunciated on the transponder and primary GPS screens. ADS-B In system faults are annunciated on the primary GPS screen.

Change of aircraft registration may require ADS-B equipment programming by qualified maintenance personnel.

ADS-B is part of the NextGen airspace-modernization initiative, which also includes FIS-B and TIS-B. Some ADS-B equipment, such as the Garmin GTX 345R transponder and GDL 88 datalink, can receive weather, TFRs, NOTAMs, and other FAA notices over FIS-B on 978 MHz for display on a Garmin GTN navigator. TIS-B is a ground-based system that augments ADS-B by converting radar-acquired aircraft coordinates and transponder information into ADS-B broadcasts, providing ADS-B visibility of aircraft that lack ADS-B Out.

Refer to R66 Pilot's Operating Handbook Section 7 for additional information.

97-21 Garmin GTX 33 Transponder

> NOTE
>
> Refer to Garmin GTX 33 Transponder Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The Garmin GTX 33 is a remote-mounted transponder with extended-squitter ADS-B broadcast capability. The GTX 33 has no control panel face; it is controlled via the Garmin GTN 6XX/7XX-series GPS navigator.

B. Schematic

Refer to Figure 98-16 for Garmin GTX 33 Transponder Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove hardware securing F640 face assembly to avionics panel and remove face.
3. Loosen screw and swing handle across GTX 33 transponder to unlock. Carefully unplug/remove transponder from tray.

D. Installation

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Carefully plug-in/install GTX 33 transponder in appropriate location in avionics tray.
3. Swing handle across transponder to lock and tighten screw. Verify equipment security.
4. Install hardware securing F640 face assembly to avionics panel.
5. Push in XPDR (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Garmin GTX 33 Transponder Maintenance Manual and Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-21 Garmin GTX 33 Transponder (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE

Antenna installation depends on optional equipment installed.

Removal

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove (4) screws securing B322-11 plate & antenna to cabin skin. Pull plate & antenna down to disconnect antenna cable and remove from helicopter.
3. If desired, use a plastic scraper to remove B270-1 sealant from around antenna at corners where it attaches to B322-11 plate. Remove hardware securing antenna to plate and remove antenna.

Installation

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from between cabin skin and B322 plate/doubler to ensure electrical ground.
3. If not previously accomplished, install hardware securing transponder antenna to plate/doubler. Verify security. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to plate/doubler and allow to dry.
4. Connect antenna cable to antenna and install screws securing plate & antenna to cabin skin. Verify security.
5. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE

All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

97-21 Garmin GTX 33 Transponder (continued)

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel.
2. Remove GTX 33 transponder per Part C. Inspect condition of and verify no obvious damage to transponder, radio tray, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing.
3. Secure circuit breaker panel. Install transponder per Part D.

97-22 Garmin GTX 330 ES Transponder

NOTE

Refer to Garmin GTX 330 ES Transponder Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The Garmin GTX 330 ES is a panel-mounted Mode S digital transponder with traffic datalink capability and dedicated pushbuttons for squawk-code selection.

B. Schematic

Refer to Figure 98-16 for Garmin GTX 330 ES transponder & blind encoder electrical schematic.

C. Removal

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Loosen radio key securing GTX 330 ES transponder to avionics tray.
3. Carefully unplug/remove transponder from tray.

D. Installation

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Carefully plug-in/install GTX 330 ES transponder in appropriate location in avionics tray.
3. Tighten radio key securing transponder to tray. Verify equipment security.
4. Push in XPDR (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GTX 330 ES Pilot's Guide. Turn battery & avionics switches off.

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE

Antenna installation depends on optional equipment installed.

97-22 Garmin GTX 330 ES Transponder (continued)

E. Antenna (continued)

Removal

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove (4) screws securing B322-11 plate & antenna to cabin skin. Pull plate & antenna down to disconnect antenna cable and remove from helicopter.
3. If desired, use a plastic scraper to remove B270-1 sealant from around antenna at corners where it attaches to B322-11 plate. Remove hardware securing antenna to plate and remove antenna.

Installation

1. Turn battery & avionics switches off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from between cabin skin and B322-11 plate to ensure electrical ground.
3. If not previously accomplished, install hardware securing transponder antenna to plate. Verify security. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to plate and allow to dry.
4. Connect antenna cable to antenna and install screws securing plate & antenna to cabin skin. Verify security.
5. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE

All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to transponder, radio tray, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and upper console. Perform ground checks per Part D steps 4 and 5.

97-23 Garmin GTX 335 and 345 Transponders

> NOTE
>
> Refer to Garmin GTX 3X5 Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The Garmin GTX 335 and GTX 345 (GTX 3X5) are Mode S Extended Squitter (ES) transponders that satisfy ADS-B "Out" requirements. The primary difference is that the GTX 335 is an ADS-B Out-only unit, while the GTX 345 includes both ADS-B In (traffic and weather) and wireless Bluetooth® connectivity.

Refer to R66 Pilot's Operating Handbook Section 7 for additional information.

B. Schematic

Refer to Figure 98-15A or 95-15B for applicable GTX 3X5 transponder & blind-encoder electrical schematic.

C. Removal

1. Turn battery switch off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Loosen radio key securing GTX 3X5 transponder to avionics tray.
3. Carefully unplug/remove transponder from tray.

D. Installation

1. Turn battery switch off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Carefully plug-in/install GTX 3X5 transponder in appropriate location in avionics tray.
3. Tighten radio key securing transponder to tray. Verify equipment security.
4. Push in XPDR (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GTX 3X5 Maintenance Manual. Turn battery & avionics switches off.

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

> NOTE
>
> Antenna installation depends on optional equipment installed.

97-23 Garmin GTX 335 and 345 Transponders (continued)

E. Antenna (continued)

Removal

1. Turn battery & avionics switches off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Remove (4) screws securing B322-11 plate & antenna to cabin skin. Pull plate & antenna down to disconnect antenna cable and remove from helicopter.
3. If desired, use a plastic scraper to remove B270-1 sealant from around antenna at corners where it attaches to B322-11 plate. Remove hardware securing antenna to plate and remove antenna.

Installation

1. Turn battery & avionics switches off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from between cabin skin and B322-11 plate to ensure electrical ground.
3. If not previously accomplished, install hardware securing transponder antenna to plate. Verify security. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to plate and allow to dry.
4. Connect antenna cable to antenna and install screws securing plate & antenna to cabin skin. Verify security.
5. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE

All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to transponder, radio tray, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and upper console. Perform ground checks per Part D steps 4 and 5.

97-24 Garmin GTX 345R Transponder

> NOTE
>
> Refer to Garmin GTX 345R Transponder Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The Garmin GTX 345R is a remote-mounted transponder with extended-squitter ADS-B broadcast capability. The GTX 345R has no control-panel face; it is controlled via the Garmin GTN 6XX/7XX-series GPS navigator.

B. Schematic

Refer to Figure 98-15 for Garmin GTX 345R Transponder Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off, and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Hinge front left seat forward.
3. As required, remove hardware securing F748-1 cover under front left seat and remove cover.
4. Loosen screws securing backplate to transponder and disconnect backplate with attached wiring.
5. Loosen retention collar at inboard side of GTX 345R to release, then slide inboard and up to remove from helicopter.

D. Installation

1. Turn battery & avionics switches off, and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Insert outboard end of transponder mounting bracket into bracket secured to underseat compartment. Position locking mechanism and tighten retention collar.
3. Connect backplate to transponder and install screws securing backplate.
4. As required, position F748-1 cover under copilot's seat and secure with hardware.
5. Hinge front left seat back.
6. Push in XPDR (3 amp) circuit breaker on circuit breaker panel, and turn battery & avionics switches on.
7. Perform appropriate functional checks per Garmin GTX 345R Transponder Maintenance Manual and Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-24 Garmin GTX 345R Transponder (continued)

E. Antenna (continued)

Removal

1. Turn battery & avionics switches off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Remove (4) screws securing B322-11 plate & antenna to cabin skin. Pull plate & antenna down to disconnect antenna cable and remove from helicopter.
3. If desired, use a plastic scraper to remove B270-1 sealant from around antenna at corners where it attaches to B322-11 plate. Remove hardware securing antenna to plate and remove antenna.

Installation

1. Turn battery & avionics switches off and pull out XPDR (3 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from between cabin skin and B322-11 plate to ensure electrical ground.
3. If not previously accomplished, install hardware securing transponder antenna to plate. Verify security. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to plate and allow to dry.
4. Connect antenna cable to antenna and install screws securing plate & antenna to cabin skin. Verify security.
5. Perform ground checks per Part D step 7.

F. Scheduled Maintenance and Inspections

NOTE

All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel, hinge left seat forward, and remove F748-1 cover assembly.
2. Inspect condition of and verify no obvious damage to transponder, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel. Perform ground checks per Part D step 7.

97-25 Garmin GDL 88 ADS-B In Transceiver

> NOTE
>
> Refer to Garmin GDL 88 Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The GDL 88 is a remote-mounted Universal Access Transceiver (UAT) and is configured for ADS-B in only. This provides reception of other aircraft traffic broadcasts (1090 or 978 MHz), Flight Information Service Broadcast (FIS-B weather, TFRs, etc., 978 MHz), and Traffic Information Service Broadcast (TIS-B, 978 MHz). ADS-B in information is accessed and displayed on an available GTN display; refer to § 97-30.

B. Schematic

Refer to Figure 98-22 for GDL 88 ADS-B Installation electrical schematic.

C. Removal

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Under left front seat, disconnect airframe harness from GDL 88 receiver at connectors.
3. Remove screws securing GDL 88 receiver to C904-1 mount assembly, and remove GDL 88 receiver.

D. Installation

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Under left front seat, position GDL 88 receiver on C904-1 mount assembly and install screws. Verify security.
3. Connect airframe harness to GDL 88 receiver at connectors.
4. Push in XPDR (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GDL 88 Pilot's Guide. Turn battery & avionics switches off.

97-25 Garmin GDL 88 ADS-B In Transceiver (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE
Antenna installation depends on number of COM installations and additional equipment installed.

Removal

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Using plastic scraper, remove B270-1 sealant from around GDL 88 antenna at corners where it attaches to belly.
3. Disconnect antenna cable from antenna. Remove hardware securing antenna to belly and remove antenna.

Installation

1. Turn battery switch off and pull out XPDR (5 amp) circuit breaker on circuit breaker panel.
2. Remove paint & primer from antenna mating surfaces to ensure electrical ground.
3. Install hardware securing antenna to belly. Apply small bead B270-1 sealant around antenna at corners where it attaches to belly and allow to dry.
4. Connect antenna cable to antenna. Verify security.
5. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE
All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE
Refer to § 97-80 for avionics software information.

97-25 Garmin GDL 88 ADS-B In Transceiver (continued)

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and access left front seat.
2. Inspect condition of and verify no obvious damage to GDL 88, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and left front seat. Perform ground checks per Part D steps 4 and 5.

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97-30 Navigation and GPS Systems

97-31 Garmin GTN 6XX/7XX series GPS

NOTE

Refer to Garmin GTN 6XX/7XX series Maintenance Manual and Instructions for Continued Airworthiness.

A. Description

The GTN 6XX/7XX WAAS navigators are a family of panel-mounted GPS/NAV/COM navigators. GTN 6XX units include the GTN 625, GTN 635, and GTN 650 which feature a 4.9-inch color LCD touchscreen. GTN7XX units include the GTN 725 and GTN 750 which feature a 6.9-inch color LCD touchscreen. The GTN 625/725 are a GPS/SBAS unit that meets the requirements of TSO-C146c. The GTN 635 includes all of the features of the GTN 625 in addition to an airborne VHF communications transceiver. The GTN 650/750 include all of the features of the GTN 625/725 in addition to an airborne VHF communications transceiver and airborne VOR/LOC and GS receivers.

B. Schematic

Refer to Figure 98-12A, 98-13, or 98-23 as applicable for GTN 6XX/7XX series GPS installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out GPS 1 (5 amp) and GPS 2 (5 amp) circuit breakers as required on circuit breaker panel.
2. Insert hex key through face to loosen anchor screw attaching GTN to tray in upper or pilot's-side console.
3. Carefully unplug/remove GTN from tray.

D. Installation

1. Turn battery & avionics switches off and pull out GPS 1 (5 amp) and GPS 2 (5 amp) circuit breakers as required on circuit breaker panel.
2. Carefully plug-in/install GTN in appropriate location in tray in upper or pilot's-side console.
3. Insert hex key through face to tighten anchor screw attaching GTN to tray. Verify equipment security.
4. Push in GPS 1 (5 amp) and GPS 2 (5 amp) circuit breakers as required on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin GTN 6XX/7XX series Pilot's Guide. Turn battery & avionics switches off.

97-31 Garmin GTN 6XX/7XX series GPS (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE
Antenna installation depends on number of COM installations and additional equipment installed.

Removal

1. Turn battery & avionics switches off and pull out GPS 1 (5 amp) and GPS 2 (5 amp) circuit breakers as required on circuit breaker panel.
2. GPS antenna:
   a. Using plastic scraper, remove B270-1 sealant from around GPS antenna at corners where it attaches to tailcone.
   b. As required, remove B270-13 sealant from fastener holes. Remove hardware securing antenna to tailcone.

   NAV antenna:
   a. Remove hardware (including spacers) securing antenna to tailcone.

   Glideslope antenna:
   a. Remove screws securing antenna to chin.
3. Disconnect cable from antenna. Temporarily secure cable as required for later installation.

Installation

1. Turn battery & avionics switches off and pull out GPS 1 (5 amp) and GPS 2 (5 amp) circuit breakers as required on circuit breaker panel.
2. GPS antenna:
   a. Remove paint & primer from antenna mating surfaces to ensure electrical ground.
   b. As required, apply light coat B270-13 sealant to screw threads and install screws securing antenna to tailcone. As required, seal around screw heads and fill fastener holes using B270-13 sealant and allow to dry. Verify security.
   c. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to tailcone and allow to dry.

97-31 Garmin GTN 6XX/7XX series GPS (continued)

E. Antenna (continued)

Installation (continued)

2. NAV antenna:

   a. Install hardware and B322-10 spacers (thick edge inward) securing antenna to tailcone. Verify security.

   Glideslope antenna:

   a. Install screws securing antenna to chin. Verify security.

3. Connect antenna cable to antenna. Verify security.
4. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE
All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE
Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to GPS(s), copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and upper console. Perform ground checks per Part D steps 4 and 5.

97-40 Weather, Datalink, and Connected Services

97-41 Garmin GDL 69A XM Receiver

NOTE

Refer to Garmin GDL 69A XM Receiver Instructions for Continued Airworthiness.

A. Description

The GDL 69A XM Satellite Radio receives broadcast weather data and audio entertainment. The GDL 69A has no control panel face; weather data and audio controls are displayed on the G500H EFIS MFD or on the GTN 6XX/7XX series GPS navigator. The GDL 69A interfaces with the audio panel to distribute the audio signal.

A subscription to XM Satellite Radio service enables GDL 69A capability.

B. Schematic

Refer to Figure 98-17 for Garmin GDL 69A XM Receiver Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out XM (2 amp) circuit breaker on circuit breaker panel.
2. Remove hardware securing F640 face assembly to avionics panel and remove face.
3. Loosen screw and swing handle across GDL 69A receiver to unlock. Carefully unplug/remove receiver from tray.

D. Installation

1. Turn battery & avionics switches off and pull out XM (2 amp) circuit breaker on circuit breaker panel.
2. Carefully plug-in/install GDL 69A receiver in appropriate location in avionics tray.
3. Swing handle across receiver to lock and tighten screw. Verify equipment security.
4. Install hardware securing F640 face assembly to avionics panel.
5. Push in XM (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Garmin GDL 69A XM Receiver Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-41 Garmin GDL 69A XM Receiver (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

NOTE
Antenna installation depends on optional equipment installed.

Removal

1. Turn battery & avionics switches off and pull out XM (2 amp) circuit breaker on circuit breaker panel.
2. Using plastic scraper, remove B270-1 sealant from around XM antenna at corners where it attaches to F706-1 cowling.
3. Remove screws securing antenna to cowling and disconnect antenna cable from antenna. Remove antenna and rubber gasket.

Installation

1. Turn battery switches off and pull out XM (2 amp) circuit breaker on circuit breaker panel.
2. Install hardware securing XM antenna (with rubber gasket) to F706-1 cowling. Verify security. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to cowling and allow to dry.
3. Connect antenna cable to antenna. Verify security.
4. Perform ground checks per Part D steps 4 and 5.

F. Scheduled Maintenance and Inspections

NOTE
All factory-installed Garmin units are “on condition” and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE
Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel.
2. Remove GDL 69A XM receiver per Part C. Inspect condition of and verify no obvious damage to XM receiver, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing.
3. Secure circuit breaker panel. Install XM receiver per Part D.

97-50 Radar Altimeter Systems

97-51 FreeFlight RA-4000 and RA-4500 Radar Altimeter

A. Description

The FreeFlight RA-4000 radar altimeter displays altitude data on the RAD-40 indicator. The FreeFlight RA-4500 radar altimeter is identical to the RA-4000 except it has ARINC 429 output for communication with electronic displays; the RA-4500 can display altitude data on a RAD-45 indicator or an interfaced Garmin GDU display.

B. Schematic

Refer to Figure 98-14 for RA-4500 and Figure 98-14A for RA-4000 Radar Altimeter Installation electrical schematic.

C. Removal

RAD-40 Indicator

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Remove perimeter screws securing instrument face to upper console and carefully pull face aft, or remove Garmin GDU display (ref § 97-70).
3. a. For above-console installation: Remove hardware securing B560 enclosure assembly to instrument console and remove hardware securing B560 faceplate to RAD-40 Indicator.
   b. For in-console installation: Supporting RAD-40 indicator, remove hardware securing B421-1 visor assembly, A590-4 cover plate, and indicator to instrument face.
4. Disconnect console harness from indicator and carefully remove indicator.

ATG-410 Tone Generator

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel. Open instrument console or remove Garmin GDU display per § 97-70.
2. Supporting ATG-410 tone generator, remove screws securing tone generator to keel panel. Carefully remove tone generator and disconnect console harness.

RA-4000 or RA-4500 Radar Altimeter

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel. Hinge front left seat forward.
2. Disconnect airframe and antenna harnesses from RA-4000 or RA-4500 radar altimeter.
3. Supporting radar altimeter, remove screws securing radar altimeter to F542-2 support. Carefully remove radar altimeter from under left seat.

97-51 FreeFlight RA-4000 and RA-4500 Radar Altimeter (continued)

D. Installation

RAD-40 Indicator

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect console harness to RAD-40 Indicator.
3. a. For above-console installation: Install hardware securing B560 faceplate to indicator & install hardware securing B560 enclosure assembly to instrument console.
   b. For in-console installation: Supporting indicator, install hardware securing B421-1 visor assembly, A590-4 cover plate, and indicator to instrument face.
4. Install perimeter screws securing instrument face to upper console or install Garmin GDU display (ref § 97-70).
5. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Freeflight Systems Instructions for Continued Airworthiness. Turn battery & avionics switches off.

ATG-410 Tone Generator

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect console harness to ATG-410 tone generator.
3. Position tone generator on keel panel and install screws. Verify security.
4. Close instrument console or install Garmin GDU display per § 97-70.
5. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Freeflight Systems Instructions for Continued Airworthiness. Turn battery & avionics switches off.

RA-4000 or RA-4500 Radar Altimeter

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect airframe and antenna harnesses to radar altimeter.
3. Supporting RA-4000 or RA-4500 radar altimeter, install screws securing radar altimeter to F542-2 support. Verify security. Hinge front left seat aft.
4. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Freeflight Systems Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-51 FreeFlight RA-4000 and RA-4500 Radar Altimeter (continued)

E. Antenna

Refer to § 6-80 for antenna locations and R66 Illustrated Parts Catalog (IPC) Chapter 6.

Removal

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Remove hardware securing F469 scuff plate and carpet assembly to floor, remove plate, and peel back carpet as required. Remove hole plug.
3. Disconnect antenna cable from antenna.
4. Remove screws securing antenna to chin. Repeat steps for opposite-side antenna.

Installation

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect antenna cable to antenna and install screws securing antenna to chin. Verify security.
3. Install floor hole plug. Install hardware securing F469 scuff plate and carpet assembly to floor. Repeat steps for opposite-side antenna.
4. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Freeflight Systems Instructions for Continued Airworthiness. Turn battery & avionics switches off.

F. Scheduled Maintenance and Inspections

Refer to FreeFlight Systems Instructions for Continued Airworthiness.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel. Open instrument console, remove perimeter screws securing instrument face to upper console, or remove Garmin GDU display (ref § 97-70). Hinge front left seat forward as required.
2. Inspect condition of and verify no obvious damage to RAD-40 Indicator, ATG-410 Tone Generator, RA-4000 or RA-4500 Radar Altimeter, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and close instrument console, install perimeter screws securing instrument face to upper console, or install Garmin GDU display (ref § 97-70). Hinge front left seat aft as required.

97-52 Garmin GRA 55 Radar Altimeter

A. Description

The GRA 55 radar altimeter is a digital low-range altimeter designed to calculate and provide precise above-ground-level (AGL) altitude. Altitude data are provided via ARINC 429 to the Garmin GDU display.

B. Schematic

Refer to Figure 98-14B for GRA 55 Radar Altimeter electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Hinge front left seat forward.
3. As required, remove hardware securing F748-1 cover assembly under front left seat and remove from helicopter.
4. Disconnect wiring harness and antenna cables from GRA 55 altimeter.
5. While supporting altimeter, rotate lockdown-mechanism collar counterclockwise to loosen; pull out lockdown mechanism and disengage from front of altimeter.
6. Slide altimeter toward front side to release from mounting rack and remove from helicopter.

D. Installation

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker from circuit breaker panel.
2. Hinge front left seat forward.
3. If not previously accomplished, install hardware securing GRA 55 altimeter's mounting rack under front left seat.
4. Align altimeter with mounting rack. Ensure altimeter is fully seated in rack, then pull lockdown mechanism collar over altimeter's hook. Hand-tighten lockdown mechanism. Verify security.
5. Connect antenna cables and airframe wiring harness.
6. As required, install hardware securing F748-1 cover assembly under front left seat. Verify security.
7. Hinge front left seat backward.
8. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
9. Perform calibration and testing specified by Garmin GRA 55 System Maintenance Manual.

97-52 Garmin GRA 55 Radar Altimeter (continued)

E. Antenna

Refer to R66 Illustrated Parts Catalog (IPC) Chapter 6 for antenna locations.

Removal (standard location)

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Remove pilot- or copilot-side carpet and scuff plate from floor per § 25-30, as required. Remove hole plug.
3. Disconnect antenna cable from antenna, and remove screws securing antenna to chin. Repeat steps for opposite-side antenna as required.

Removal (alternate location)

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Hinge front left or front right seat forward as required.
3. On left side, remove hardware securing F748-1 cover assembly under seat as required, and remove from helicopter. On right side, remove G702 cover assembly as required, and remove from helicopter.
4. Disconnect antenna cable from antenna, and remove screws securing antenna to chin. Repeat steps for opposite-side antenna as required.

Installation (standard location)

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect antenna cable to antenna and install screws securing antenna to chin. Verify security.
3. Install hole plug. Install carpet and scuff plate per § 25-30. Repeat steps for opposite-side antenna as required.
4. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform calibration and testing specified by Garmin GRA 55 System Maintenance Manual.

97-52 Garmin GRA 55 Radar Altimeter (continued)

E. Antenna (continued)

Installation (alternate location)

1. Turn battery & avionics switches off and pull out RAD ALT (2 amp) circuit breaker on circuit breaker panel.
2. Connect antenna cable to antenna and install screws securing antenna to chin. Repeat steps for opposite-side antenna as required.
3. On left side, install hardware securing F748-1 cover assembly under seat as required. On right side, install hardware securing G702 cover assembly as required.
4. Hinge front left or front right seat back as required.
5. Push in RAD ALT (2 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform calibration and testing specified by Garmin GRA 55 System Maintenance Manual.

F. Scheduled Maintenance and Inspections

Refer to Garmin GRA 55 System Maintenance Manual.

97-60 Electronic Flight Instrument Systems (EFIS)

97-61 Aspen EFD500H & EFD1000H (EFIS)

A. Description

R66 options include a single screen Aspen PFD, or a dual-screen Aspen PFD and MFD.

The Aspen PFD (Primary Flight Display) is an LCD unit with displays for attitude, altitude, airspeed, heading, and optional NAV (HSI/CDI). The Aspen PFD is a situational awareness aid, to be used in conjunction with required VFR instruments (altimeter, airspeed indicator, and magnetic compass).

The standard Aspen PFD installation configures the lower half of the display as a directional gyro. An optional installation configures the lower half of the display to a Horizontal Situation Indicator (HSI). Primary GPS position data is provided by GTN-series GPS. Heading and outside air temperature data is received from the Aspen remote sensor module (RSM). The RSM provides backup GPS position data if primary GPS fails.

The Aspen MFD (Multifunction Display) is an LCD unit with displays for moving map navigation data, terrain, and traffic. Terrain and traffic may also be overlaid on moving map. GPS position data is provided by Garmin GTN-series GPS for moving map and terrain displays. Aspen MFD also includes an internal terrain database. TIS-A traffic data may be received from Garmin GTX 330 or 3X5 transponder for moving map display.

B. Schematics

Refer to Figure 98-19 for Aspen EFD500H Display Installation electrical schematic, and Figure 98-18 for Aspen EFD1000H Display Installation electrical schematic.

Refer to Figures 95-9 or 95-10 for Aspen PFD pitot-static schematic, and Figure 95-11 for Aspen PFD & MFD pitot-static schematic.

C. Removal

1. Turn battery switch off and pull-out EFIS circuit breaker (7.5 amp) on circuit breaker panel.
2. Gently depress blue tab(s) at top of Aspen PFD/MFD to release display(s) from mounting bracket(s).
3. PFD only: Disconnect pitot and static lines from display using quick-disconnect couplers. Temporarily cap pitot and static line fittings at display and in aircraft to prevent contamination.
4. Loosen screws securing airframe wiring harness connector(s) to display(s), unplug connector(s), and remove display(s).

97-61 Aspen EFD500H & EFD1000H (EFIS; continued)

D. Installation

1. Turn battery switch off and pull-out EFIS circuit breaker (7.5 amp) on circuit breaker panel.
2. Plug airframe wiring harness connector(s) into Aspen PFD/MFD display(s) and tighten screws. Verify security.
3. PFD only: Remove temporary fitting caps and connect pitot and static lines to display using quick-disconnect couplers.
4. Insert display(s) into mounting bracket(s) until blue tab(s) snap(s) into place. Verify security.
5. Push-in EFIS circuit breaker (7.5 amp) on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Aspen EFD1000H PFD / EFD500H MFD Pilot's Guide. Turn battery & avionics switches off.
7. Perform pitot-static leak check.

E. Remote Sensor Module (RSM) Antenna

NOTE
Do not use magnetized tools.

Removal

1. Turn battery switch off and pull-out EFIS circuit breaker (7.5 amp) on circuit breaker panel.
2. Refer to § 6-80 for antenna locations. Using plastic scraper, remove B270-1 sealant from around EFIS antenna at corners where it attaches to tailcone.
3. Cut and discard ty-raps as required and disconnect antenna cable at connectors (secured to frame). Remove screws securing antenna and antenna ground wire to tailcone and remove antenna.

Installation

1. Turn battery switch off and pull-out EFIS circuit breaker (7.5 amp) on circuit breaker panel.
2. Remove paint & primer from antenna and antenna ground wire mating surfaces to ensure electrical ground.
3. Install screws securing antenna and antenna ground wire to tailcone. Verify security.
4. Apply small bead B270-1 sealant (0.1 inch max in height) around antenna at corners where it attaches to tailcone and allow to dry.
5. Connect antenna cable at connectors; secure to frame using ty-raps. Verify security.
6. Perform ground checks per Part D steps 5 and 6.

97-61 Aspen EFD500H & EFD1000H (EFIS; continued)

F. Scheduled Maintenance and Inspections

Maintenance is on condition. Contact Aspen Avionics at www.aspenavionics.com for instructions for continued airworthiness.

NOTE

Refer to § 97-80 for avionics software information.

G. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and upper console.
2. Inspect condition of and verify no obvious damage to Aspen displays, pitot-static lines, metal braiding, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel and upper console. Perform ground checks per Part D steps 5 and 6.

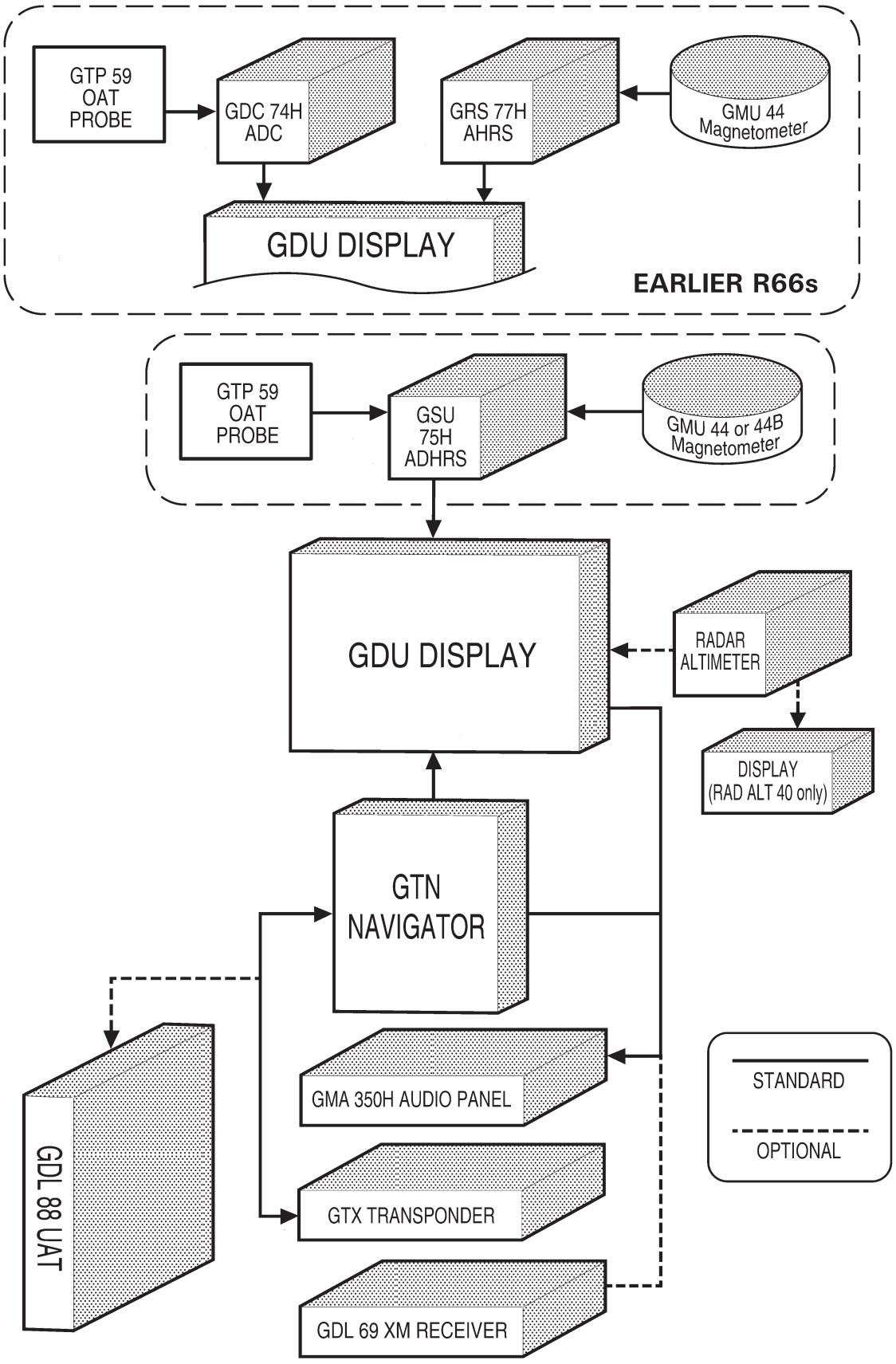


FIGURE 97-1 GARMIN G500H EFIS – BLOCK DIAGRAM

97-62 Garmin G500H EFIS

NOTE

Refer to Garmin G500H Instructions for Continued Airworthiness.

A. Description

The G500H is an integrated display system that provides flight instrument, moving-map navigation, and additional situational awareness information to the flight crew via a Garmin Display Unit (GDU). The GDU receives information from remote-mounted Line Replaceable Unit (LRU) avionics boxes. Refer to Figure 97-1 for typical primary and optionally connected LRUs; refer to appropriate sections for other connected equipment for more information.

B. Schematics

Refer to Figure 98-12A or 98-13 for applicable G500H installation electrical schematic.

C. Removal

Refer to § 97-70 for appropriate interface equipment removal instructions.

D. Installation

Refer to § 97-70 for appropriate interface equipment installation instructions.

E. Pitch/Roll Offset Calibration

NOTE

A Garmin Installer Unlock card is required to perform this procedure.

NOTE

All factory-installed Garmin units are configured to each helicopter. Perform only the steps outlined in this procedure without making additional changes.

1. Ensure GDU is off, then insert Garmin's Installer Unlock card in lower/left slot.
2. Press and hold right-inner knob, then press and release power button. After screen turns on, release right-inner knob.
3. Ensure external LRUs are online, indicated by green boxes on left side of display.
4. Press *Attitude/Heading*, *Calibration/Test*.
5. Select **Pitch/Roll Offset** procedure.

97-62 Garmin G500H EFIS (continued)

E. Pitch/Roll Offset Calibration (continued)

6. Follow and confirm each on-screen instruction.

NOTE
Verify aircraft is positioned on skids on level ground.

7. Press **Calibrate** and confirm successful calibration.
8. Press **Close**, power off GDU, then remove Installer Unlock card.

F. Magnetometer Calibration

NOTE
This procedure must be performed during a flight check.

NOTE
A Garmin Installer Unlock card is required to perform this procedure.

NOTE
All factory-installed Garmin units are configured to each helicopter. Perform only the steps outlined in this procedure without making additional changes.

NOTE
If helicopter has Garmin GFC 600H Helicopter Flight Control System (FCS) installed, refer to § 22-16-2 Part D and perform FCS and GDU magnetometer calibration simultaneously.

1. If not previously accomplished, perform Pitch/Roll Offset Calibration per Part E.
2. Ensure GDU is off, then insert Garmin's Installer Unlock card in lower/left slot.
3. Press and hold right-inner knob, then press and release power button. After screen turns on, release right-inner knob.
4. Ensure external LRUs are online, indicated by green boxes on left side of display.
5. Press *Attitude/Heading*, *Calibration/Test*.
6. Select **Magnetometer** procedure.
7. Read thru on-screen checklist and confirm each instruction.
8. Press **Calibrate**.

97-62 Garmin G500H EFIS (continued)

F. Magnetometer Calibration (continued)

9. With appropriately rated person at controls, start helicopter. Follow on-screen procedure until **Calibration Successful** is displayed, then press close to exit.
10. Have pilot land the helicopter. Press and hold power button to power off, then remove the Installer Unlock card.
11. Press power button to power on GDU in normal mode. Have pilot rotate helicopter and verify alignment with analog compass.
12. Have pilot complete flight check if required, or land and shut down helicopter.

G. Scheduled Maintenance and Inspections

Refer to applicable sections of § 97-70 for each installed interfacing equipment.

H. Special Maintenance and Inspections

Refer to applicable sections of § 97-70 for each installed interfacing equipment.

97-70 Avionics Source and Interface Equipment

97-71 Garmin GDC 74H Air Data Computer

A. Description

The Garmin GDC 74H Air Data Computer (ADC) compiles information from the pitot-static system and an Outside Air Temperature (OAT) sensor. The GDC 74H computer provides pressure altitude, airspeed, vertical speed, and OAT information to the G500H EFIS system. The GDC 74H computer communicates with the GDU display and GRS 77H AHRS using an ARINC 429 digital interface.

B. Schematic

Refer to Figure 98-11 for GDC 74H Air Data Computer Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. As required, remove hardware securing F748-1 cover assembly under front left seat and remove from helicopter.
3. Disconnect airframe harness from GDC 74H air data computer at connectors.
4. Disconnect pitot and static tube fittings from computer and plug fittings.
5. Remove screws securing computer to F950-2 support assembly. Carefully remove computer from under left seat.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Place GDC 74H air data computer on F950-2 support assembly and install screws. Verify security.
3. Remove plugs from fittings and connect pitot and static tube fittings to computer. Verify security. Perform pitot and static system leak checks per § 95-30.
4. Connect airframe harness to computer at connectors.
5. Push in EFIS (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.
7. As required, position F748-1 cover under copilot's seat and secure with hardware. Hinge left seat back.

97-71 Garmin GDC 74H Air Data Computer (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H EFIS Maintenance Manual, Section 5 Periodic Maintenance.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel, hinge left seat forward, and remove F748-1 cover assembly.
2. Inspect condition of and verify no obvious damage to Garmin GDC 74H Air Data Computer, pitot-static tubes, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel. Perform ground checks per Part D steps 5 thru 7.

97-72 Garmin GRS 77H AHRS

A. Description

The Garmin GRS 77H Attitude and Heading Reference System (AHRS) provides aircraft attitude information to the G500H EFIS system. The GRS 77H interfaces with both the GDC 74H Air Data Computer and the GMU 44 magnetometer. The GRS 77H also utilizes GPS data forwarded from the GDU 620. Actual attitude and heading information is sent to the GDU 620 using an ARINC 429 digital interface.

B. Schematic

Refer to Figure 98-12 for GRS 77H AHRS Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Hinge left seat forward and remove F950-3 cover assembly.
3. Disconnect airframe harness from GRS 77H AHRS at connectors.
4. Loosen thumbscrews securing AHRS to F950-1 support assembly. Carefully remove AHRS from under left seat.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Place GRS 77H AHRS on F950-1 support assembly and tighten thumbscrews. Verify security.
3. Connect airframe harness to GRS 77H AHRS at connectors.
4. Push in EFIS (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.
6. Install F950-3 cover assembly and hinge left seat back.

97-72 Garmin GRS 77H AHRS (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H EFIS Maintenance Manual, Section 5 Periodic Maintenance.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel, hinge left seat forward, and remove F950-3 cover assembly.
2. Inspect condition of and verify no obvious damage to Garmin GRS 77H AHRS, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel. Perform ground checks per Part D steps 4 thru 6.

97-73 Garmin GSU 75H ADAHRS

A. Description

The Garmin GSU 75H ADAHRS (Air Data, Attitude and Heading Reference System) is a remote-mounted device that provides flight altitude, airspeed, attitude, and heading data for flight instrumentation in ARINC 429 format. The GSU 75H also provides operating current to the GTP 59 OAT Probe and operating voltage to the GMU 44 or GMU 44B magnetometer.

B. Schematic

Refer to Figure 98-10 for GSU 75H ADAHRS Installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Hinge front left seat forward.
3. As required, remove hardware securing F748-1 cover assembly under front left seat and remove from helicopter.
4. Remove GTX 345R transponder per § 97-24, if installed.
5. Remove GRA 55 radar altimeter per § 97-52, if installed.
6. Disconnect pitot and static tubes and wiring harness connector from GSU 75H. Temporarily cap or plug all tubes and fittings.
7. Loosen two retention screws at outboard side of GSU 75H to release, then slide outboard and up to remove from helicopter.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. If not previously accomplished, install 117-00608-00 rack on F950-9 support assembly using (4) MS27039C1-06 screws. Install Garmin GSU mount on F950-9 assembly.
3. Position GSU 75H on mounting rack and slide unit inboard until mounting tabs are fully engaged with rack. Push down and tighten both retention screws equally finger tight, then torque screws to 15-20 in.-lb. Verify security.
4. Remove temporary caps or plugs from pitot and static lines and fittings. Connect pitot and static tubes to unit, and verify security.
5. Connect wiring harness connector to unit and verify security.

97-73 Garmin GSU 75H ADAHRS (continued)

D. Installation (continued)

6. As required, install GRA 55 radar altimeter per § 97-52.
7. As required, install GTX 345R transponder per § 97-24.
8. As required, position F748-1 cover under copilot's seat and secure with hardware.
9. Hinge front left seat backward.
10. Push in EFIS (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
11. Refer to § 97-70. Power-on the Garmin GDU and verify the built-in test for GSU 75H passes. Turn battery & avionics switches off.
12. Perform pitot-static system leak check per § 95-30.

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H EFIS Maintenance Manual, Section 5 Periodic Maintenance.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel, hinge left seat forward, and remove F748-1 cover assembly.
2. Inspect condition of and verify no obvious damage to Garmin GRS 75H ADAHRS, pitot-static tubes, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel. Perform ground checks per Part D steps 10 thru 12.

97-74 Garmin GMU 44 and 44B Magnetometer

A. Description

The GMU 44 or 44B magnetometer is a remote-mounted device that provides heading data to the AHRS (GRS 77H via RS-485) or ADAHRS (GSU 75H via RS-422), which is then provided to the PFD. The GMU measures the magnitude of the local magnetic field in three axes and also measures its pitch and roll angles relative to the surface of the earth. The GMU receives power from the connected AHRS or ADAHRS.

B. Schematic

Refer to Figure 98-10 for GMU 44B & GSU 75H ADAHRS Installation electrical schematic or Figure 98-10A for GMU 44 & GSU 75 ADAHRS Installation electrical schematic.

Refer to Figure 98-12 for GMU 44 & GRS 77H AHRS Installation electrical schematic.

C. Removal

Installed in Tailcone Bay 1

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Remove tailcone cowling per § 53-23.
3. Supporting magnetometer, remove hardware securing magnetometer to F950-4 bracket.
4. Remove MS21919WDG12 clamp and disconnect magnetometer harness from F951-1 harness assembly at connectors. Remove magnetometer.

Installed in Tailcone Bay 2

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Remove tailcone assembly per § 53-40 Part A.
3. Remove tail rotor drive shaft assembly per § 65-20 Part A.
4. As required, remove hardware and MS21919WDG3 clamps or MS21919WDG12 clamp securing F951-2 or -5 wiring harness.
5. Remove hardware securing GMU 44 to F950-4 bracket or GMU 44B to F950-20 bracket.
6. Cut & discard ty-rap locking connector and disconnect wiring harness. Remove GMU from tailcone.

97-74 Garmin GMU 44 and 44B Magnetometer (continued)

D. Installation

Installed in Tailcone Bay 1

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Position MS21919WDG12 clamp on magnetometer connector.
3. Install hardware securing magnetometer to F950-4 bracket. Verify security.
4. Connect F951-1 harness assembly to magnetometer harness at connectors.
5. Push in EFIS (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
6. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.
7. Install tailcone cowling per § 53-23.

Installed in Tailcone Bay 2

1. Turn battery & avionics switches off and pull out EFIS (5 amp) circuit breaker on circuit breaker panel.
2. Position GMU 44B magnetometer on F950-20 bracket assembly, or GMU 44 magnetometer on F950-4 bracket assembly, and install hardware securing magnetometer to bracket. Verify security.
3. Connect F951-5 or -2 harness to magnetometer at connectors. Lock GMU 44B wiring and F951-5 wiring connectors using MS3367-4-9 ty-rap, if installed.
4. Install hardware and MS21919WDG3 and/or MS21919WDG12 clamps, as required, securing wiring to bracket and tailcone.
5. Install tail-rotor drive shaft assembly per § 65-20 Part B.
6. Install tailcone assembly per § 53-40 Part B.
7. Push in EFIS (5 amp) circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
8. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-74 Garmin GMU 44 and 44B Magnetometer (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H EFIS Maintenance Manual, Section 5 Periodic Maintenance.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Turn battery & avionics switches off. Open circuit breaker panel and remove tailcone cowling per § 53-23.
2. Inspect condition of and verify no obvious damage to magnetometer, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify equipment security.
3. Secure circuit breaker panel. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness.

97-75 Garmin GDU 620

NOTE

Refer to Garmin G500H Instructions for Continued Airworthiness.

A. Description

The GDU 620 electronically displays primary flight instrumentation via a primary flight display (PFD), and moving map, weather, traffic, terrain and other functionality via a multifunction display (MFD) on dual 6.5 inch displays.

The dual screen display is divided into a Primary Flight Display (PFD) with airspeed, altitude, vertical speed, attitude, and heading information and a Multifunction Display (MFD) which typically displays moving-map navigation data and can also display supplementary information such as weather, traffic, and terrain.

B. Schematics

Refer to Figure 98-9B for GDU 620 installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Remove screws securing GDU to console face.
3. Pull out and support display, unplug console harness connectors, and remove display.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Visually inspect console harness connectors and verify no bent or damaged pins. Support display and plug in console harness connectors.
3. Place GDU in console, then install and tighten screws. Verify security.
4. Push in EFIS circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-75 Garmin GDU 620 (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H Instructions for Continued Airworthiness.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Remove GDU per Part C.
2. Open circuit breaker panel and upper console.
3. Inspect condition of and verify no obvious damage to GDU, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify installed equipment security.
4. Secure circuit breaker panel and upper console.
5. Install GDU per Part D.

97-76 Garmin GDU 1060 TXi

NOTE

Refer to Garmin G500H Instructions for Continued Airworthiness.

A. Description

The GDU 1060 TXi electronically displays primary flight instrumentation via a primary flight display (PFD), and moving map, weather, traffic, terrain, and other functionality via a multifunction display (MFD) that includes touch-screen technology on one 10.6 inch display.

B. Schematics

Refer to Figure 98-9 and 98-9A for applicable GDU 1060 installation electrical schematic.

C. Removal

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Remove screws securing GDU to console face.
3. Pull out and support display, unplug console harness connectors, and remove display.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Visually inspect console harness connectors and verify no bent or damaged pins. Support display and plug in console harness connectors.
3. Place GDU in console, then install and tighten screws. Verify security.
4. Push in EFIS circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-76 Garmin GDU 1060 TXi (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H Instructions for Continued Airworthiness.

NOTE
All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE
Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Remove GDU per Part C.
2. Open circuit breaker panel and upper console.
3. Inspect condition of and verify no obvious damage to GDU, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify installed equipment security.
4. Secure circuit breaker panel and upper console.
5. Install GDU per Part D.

97-77 Garmin GDU 700L TXi |

NOTE

Refer to Garmin G500H Instructions for Continued Airworthiness.

A. Description

The GDU 700L electronically displays primary flight instrumentation via a primary flight display (PFD), and moving map, weather, traffic, terrain, and other functionality via a multifunction display (MFD) that includes touch-screen technology on one 7 inch display.

B. Schematics

Refer to Figure 98-9 and 98-9A for applicable GDU 700L installation electrical schematic. |

C. Removal

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Remove screws securing GDU to console face.
3. Pull out and support display, unplug console harness connectors, and remove display.

D. Installation

1. Turn battery & avionics switches off and pull out EFIS circuit breaker (5 amp) on circuit breaker panel.
2. Visually inspect console harness connectors and verify no bent or damaged pins. Support display and plug in console harness connectors.
3. Place GDU in console, then install and tighten screws. Verify security.
4. Push in EFIS circuit breaker on circuit breaker panel. Turn battery & avionics switches on.
5. Perform appropriate functional checks per Garmin G500H Instructions for Continued Airworthiness. Turn battery & avionics switches off.

97-77 Garmin GDU 700L TXi (continued)

E. Scheduled Maintenance and Inspections

Refer to Garmin G500H Instructions for Continued Airworthiness.

NOTE

All factory-installed Garmin units are "on condition" and do not require scheduled periodic maintenance. Units feature a BIT (Built-In Test) function during each initial power-up that will detect internal failure(s) and alert pilot.

NOTE

Refer to § 97-80 for avionics software information.

F. Special Maintenance and Inspections

1. Remove GDU per Part C.
2. Open circuit breaker panel and upper console.
3. Inspect condition of and verify no obvious damage to GDU, copper bus bars, circuit breaker, and wiring. Verify no loose, chafed, or broken wires or terminals. Verify no evidence of arcing. Verify installed equipment security.
4. Secure circuit breaker panel and upper console.
5. Install GDU per Part D.

97-80 Avionics Software

Modern avionics software is complex and subject to rigorous testing by RHC to assure proper function and integration in the aircraft. Only specified software versions and software configurations have been FAA-approved for installation in Robinson helicopters. Software updates should not be attempted without a thorough understanding of approval status and compatibility. Technical support from either RHC or the avionics manufacturer will likely be required. In some cases, updating software for one item of avionics may require additional avionics to be updated to assure compatibility.

As long as RHC-installed equipment is functioning properly, there is no continuing airworthiness requirement to check or update software levels in Robinson helicopters; RHC will issue an SB (or FAA will issue an AD) for any mandatory updates.

Consult https://robinsonheli.com > Customer Support > Avionics Support > Avionics Software page for approved software configurations.

NOTE

The above statements apply to avionics operating software. Databases (e.g. charts, terrain, etc.) may be updated regularly using avionics manufacturer's recommended procedures.

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