

GARMIN.

AXIS™ FLIGHT DISPLAYS

Build-A-System Guide

Experimental Aircraft



AXIS™ FLIGHT DISPLAYS THE CENTER OF YOUR PANEL.



SMARTER, FASTER, MORE INTEGRATED

Put state-of-the-art capabilities in your panel with our AXIS integrated flight display system. Available in 11.6" portrait, 8" landscape and 8" portrait formats (8" models coming soon), AXIS can add advanced PFD, MFD and EIS capabilities to your panel. In an industry first, select AXIS flight displays include a built-in IFR GPS, COMM or NAV/COMM radio, and 4-place audio panel capability, creating an integrated solution that reduces weight and simplifies installation.

Part Number	Display	Format	Certification	Internal GPS	COMM	NAV	Audio Panel
010-04142-00	GDU 80PX	8" Portrait	Experimental	VFR			
010-04144-00	GDU 80LX	8" Landscape	Experimental	VFR			
010-03004-00	GDU 116BX	11.6"	Experimental	VFR			
010-03001-00	GDU 116C	11.6"	Certified (TSO)	IFR	✓		✓
010-03002-00	GDU 116NC	11.6"	Certified (TSO)	IFR	✓	✓	✓

POWERFUL DISPLAYS. SIMPLE UPGRADE.

AXIS fits a wide variety of panel types. Each display is a full inch larger than the G3X Touch™ system yet shares the same panel cutout and mounting points. AXIS is also compatible with most existing sensors and components from G3X Touch, as well as a broad array of instruments, radios, GPS navigators and more.

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MODERN, RELIABLE, ALL-DIGITAL PFD

- Improve your situational awareness with enhanced synthetic vision technology and MFD-like moving map on your HSI
- 3D SafeTaxi® provides pilots with a 3-dimensional, exocentric view of the airport environment
- Add widgets to display compact views of your flight plan, traffic, weather and more
- Interact with quick access controls and customizable data fields

VIEW CRITICAL INFORMATION MORE CLEARLY

- When appropriately equipped, view traffic, weather, terrain, obstacles, terminal charts, sectionals and more
- Use an intuitive radial menu to easily access waypoint information and make flight-plan updates
- Flight plan across displays and easily load waypoints or VORs, holds, GPS and ILS procedures and more when appropriately equipped
- HDMI video input on each display allows for camera monitoring



ADVANCED PRIMARY ENGINE MONITORING

- With an interface adapter and sensors, AXIS can serve as the primary EIS display in piston-powered aircraft equipped with most normally aspirated or turbocharged 4- to 6-cylinder engines, plus radial and turbine-powered experimental aircraft
- View easy-to-read gauges, a fuel computer, exceedance alerts/advisories, lean-assist modes and more
- Upon landing, flight and engine data logs can be automatically uploaded to flyGarmin.com® via the Garmin Pilot™ app or the GDL® 60 datalink and PlaneSync™ service
- Via flyGarmin.com, pilots can optionally choose to share these logs with analysis services such as FlySto or SavvyAviation to gain deeper insights on engine health, maintenance updates, flight analysis and more

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Use this guide to build your perfect panel. Select the components you'll add, including displays, installation kits, sensors, interfaces and more. Refer to device installation manuals to confirm requirements and compatibility.

Step 1: Select Displays

AXIS flight displays are available in several display formats. Experimental aircraft can leverage our AXIS™ X models, which are non-TSO (noncertified) displays. Displays with a built-in IFR GPS, COMM or NAV/COMM are only available in certified variants, but can be mixed with experimental displays to form an IFR capable system. External GPS/NAV/COMM sources can also be interfaced to provide this functionality. Up to 6 AXIS displays can be installed in a single system.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-04143-00	AXIS 8" Portrait Display - GDU 80PX	\$4,140.00	
010-04145-00	AXIS 8" Landscape Display - GDU 80LX	\$4,140.00	
010-03000-00	AXIS 11.6" Display - GDU 116BX	\$4,980.00	
010-03001-00	AXIS 11.6" Display w/ IFR GPS/COMM & Audio - GDU 116C (TSO)	\$18,400.00	
010-03002-00	AXIS 11.6" Display w/ IFR GPS/NAV/COMM & Audio - GDU 116NC (TSO)	\$23,400.00	

Step 1A: Select Display Install Kits

Each AXIS display requires an install kit, which includes the connectors needed to complete wiring to the display. Different install kits are required depending on the display model, so reference your display selections to choose the appropriate kit(s). If you are upgrading from G3X Touch™, select the "G3X Upgrade" kit(s). The printed material kit includes helpful accessories to get you started with your system, including access to a pilot eLearning course. Select one of each for a new AXIS system installation.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-14468-00	Install Kit, GDU 80PX/LX, New Install	\$180.00	
010-14468-10	Install Kit, GDU 80X/116BX, G3X Upgrade	\$90.00	
010-14468-01	Install Kit, GDU 116BX, New Install	\$180.00	
010-14469-02	Install Kit, GDU 116C/116NC, New Install	\$400.00	
010-14469-12	Install Kit, GDU 116C/116NC, G3X Upgrade	\$200.00	
010-02639-00	GA 35S GPS/WAAS Antenna (Required for IFR GPS displays)	\$400.00	
K00-01479-00	Kit, Printed Material, GDU 80(x)/116(x) Series (1 per aircraft)	\$200.00	

Note: Typically, no additional Garmin parts are required to upgrade from G3X Touch.

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Step 2: Select System Sensors

AXIS flight displays utilize a kit of core sensors. If desired, supplemental sensors can provide an additional data source. The GSU 25 ADAHRS provides air data and attitude reference, GMU 11 or GMU 22 provides magnetic heading, and the GTP 59 air data probe provides air temperature data. Aircraft exceeding 300 KIAS should select the kit with GSU 25D and GMU 22. See the installation manual for additional details.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-04556-00	LRU Kit, AXIS™ X w/GSU 25C, GMU 11, GTP 59	\$1,860.00	
010-04556-01	LRU Kit, AXIS X w/GSU 25D, GMU 22, GTP 59	\$3,340.00	
010-01071-55	GSU 25C, Unit Only (Supplemental)	\$990.00	
010-01071-56	GSU 25D, PMA, Unit Only (Supplemental)	\$2,800.00	
010-01788-00	GMU 11, Unit Only (Supplemental)	\$410.00	

Step 2A: Select System Sensor Install Kits

For new installations, 1 install/connector kit is required for each system sensor from the table above. If supplemental sensors are selected, an additional install/connector kit is required for each.

Part Number	Description	Pricing As Low As	Selection (QTY)
K10-00181-00	GSU 25 Connector Kit	\$110.00	
011-04349-90	GMU 11 Install Kit	\$75.00	
011-00871-10	GMU 22 Install Kit	\$125.00	

Step 3: Select Standby Flight Instrument

AXIS can connect with a standby flight instrument for additional redundancy. For outside air temperature (OAT), use GAD™ 13 and GTP 59. AXIS LRU kits include GTP 59 and can share with G5.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-01485-01	G5 Unit Only	\$1,660.00	
010-12493-11	G5 Installation Kit (Required)	\$120.00	
010-12493-02	G5 Battery Pack	\$280.00	
010-02203-K0	Kit, GAD 13, GTP 59, Connection Kit	\$560.00	
010-02203-00	GAD 13, FAA-PMA, Unit Only	\$170.00	
011-03002-10	Connector Kit, 9 Pin with Can Term, PMA	\$70.00	

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Step 4: Select Engine/Airframe Interface

AXIS displays connect to engine sensors via a GEA™ engine and airframe interface. Typically, one GEA module is required per engine, unless the engine has more than 6 cylinders. Select GEA™ 110 for firewall forward or engine compartment mounted installations. GEA 110 requires an AXIS COMM or NAV/COMM display.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-02770-00	GEA™ 24B, Unit Only	\$975.00	
011-02886-00	GEA™ 24 Connector Kit	\$215.00	
010-01329-01	GEA 110, Unit Only	\$3,710.00	
011-03527-50	GEA 110 Connector Kit	\$320.00	
011-03527-51	GEA 110 Connector Kit, Sealed (Select if GEA 110 is remotely mounted)	\$565.00	
011-03941-00	GEA 110 Install Tray	\$190.00	

Step 4A: Select Engine Sensors

Garmin offers engine sensor kits that include the typically required sensors for 4- or 6-cylinder Lycoming or Continental engines, as well as Rotax® models. Additional sensors can be selected as required, or sensors can be purchased individually if the kits are not applicable to the engine type. Refer to the installation manual for additional guidance.

Part Number	Description	Pricing As Low As	Selection (QTY)
K00-00512-10	Sensor Kit, 4-cylinder Lyc/Cont (Sensors include CHT, EGT, oil temp, fuel flow, ammeter shunt, oil pressure, manifold pressure)	\$1,180.00	
K00-00513-10	Sensor Kit, 6-cylinder Lyc/Cont (Sensors include CHT, EGT, oil temp, fuel flow, ammeter shunt, oil pressure, manifold pressure)	\$1,440.00	
K00-00514-10	Sensor Kit, Rotax 912UL (Sensors include EGT, fuel pressure, manifold pressure, ammeter shunt, RPM signal)	\$430.00	
011-05783-10	Sub-assy, Pressure Sensor, GPT 15G	\$320.00	
011-05783-20	Sub-assy, Pressure Sensor, GPT 75G	\$320.00	
494-10001-00	Fuel Flow, 1/4" Female NPT	\$520.00	
494-50005-00	RPM, Hall Effect, Slick Magneto	\$195.00	
494-50005-01	RPM, Hall Effect, Bendix Magneto	\$195.00	
494-70002-00	TIT, Type K Thermocouple, 7/16-20 Bayonet	\$120.00	
494-70005-00	Carb Temp, RTD, 1/4-28	\$155.00	
909-D0000-00	Ammeter, Shunt, +/-50 mV, 100 amps	\$75.00	

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Step 5: Select GFC™ 500X Autopilot

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Add a GFC 500X autopilot system to your AXIS installation for integrated flight control capabilities. Add 1 servo per each desired control axis - pitch/roll/yaw damper. The GMC 507 autopilot mode controller is optional for AXIS systems in experimental aircraft, but recommended.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-01068-20	GSA 28 Servo (1 per axis, pitch/roll/yaw damper)	\$1,060.00	
010-01946-00	GMC 507, Unit Only (Optional)	\$1,370.00	

Step 5A: Select GFC Autopilot Install Kits and Servo Mounts

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Select 1 GSA connector kit per servo. Select a GMC 507 connector kit if you have selected a GMC 507 mode controller. The install rack is recommended to ensure solid mounting.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-12700-00	GMC 507 Connector Kit	\$80.00	
010-12700-10	GMC 507 Install Rack	\$55.00	
011-02950-00	GSA 28 Connector Kit	\$75.00	
011-02950-01	GSA 28 Connector Kit, Right Angle	\$200.00	
011-02952-01	GSA 28 Servo Installation Kit, Generic with Mounting Bracket	\$165.00	
011-02952-10	GSA 28 Servo Installation Kit, RV-6 Roll	\$165.00	
011-02952-11	GSA 28 Servo Installation Kit, RV-4/8 Pitch	\$165.00	
011-02952-12	GSA 28 Servo Installation Kit, RV-7/8/10 Roll	\$165.00	
011-02952-13	GSA 28 Servo Installation Kit, RV-9 Roll	\$165.00	
011-02952-14	GSA 28 Servo Installation Kit, RV-6/7/9 Pitch	\$165.00	
011-02952-15	GSA 28 Servo Installation Kit, RV-10 Pitch	\$165.00	
011-02952-16	GSA 28 Servo Installation Kit, RV-10 Yaw	\$650.00	

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Step 6: Select IFR GPS, Radios and Audio Panel

AXIS can connect with many Garmin IFR GPS, COMM radios and NAV radios. If you haven't selected an AXIS display with an integrated IFR GPS and radio, consider selecting one of the options below. Flight planning, radio control and more can be done from an AXIS display with the compatible products below.

Part Number	Description	Pricing As Low As	Selection (QTY)
010-02002-05	GTN™ 750Xi - IFR GPS/NAV/COMM/MFD	\$20,040.00	
010-01999-05	GTN™ 650Xi - IFR GPS/NAV/COMM/MFD	\$14,040.00	
010-02232-51	GNC® 355 - IFR GPS and COMM Radio	\$7,750.00	
010-01823-50	GNX™ 375 - IFR GPS and ADS-B In/Out Transponder	\$8,250.00	
010-01822-50	GPS 175 - IFR GPS Navigator	\$5,525.00	
010-02481-01	GNC® 215 - NAV/COMM Radio	\$4,975.00	
010-03395-01	GTR™ 205X - COMM Radio (Optional 4-PL intercom & audio panel)	\$2,160.00	
010-03396-01	GTR™ 205XR - Remote COMM Radio	\$1,720.00	
010-01318-03	GMA™ 245 - Audio Panel (Up to 6-PL intercom)	\$1,770.00	
010-01471-03	GMA™ 245R - Remote Audio Panel (Up to 6-PL intercom)	\$1,645.00	

Step 7: Select Transponder and Datalinks

Garmin offers 3 remote-mount transponder models specifically for experimental aircraft. All models are ADS-B Out capable, with GTX™ 45R supporting ADS-B In capability for traffic and weather display (WX - U.S. Only). Select the GTX 45R model with GPS if you don't have an IFR GPS. This provides the GPS position source required for ADS-B Out. GDL® series datalinks can also provide ADS-B In and/or SiriusXM® (coming soon).

Part Number	Description	Pricing As Low As	Selection (QTY)
010-01757-46	GTX 45R with GPS - ADS-B In/Out Transponder, Remote-mount (GPS antenna not included)	\$4,860.00	
010-01757-06	GTX 45R - ADS-B In/Out Transponder, Remote-mount	\$4,180.00	
010-01756-01	GTX™ 35R - ADS-B Out Transponder, Remote-mount	\$2,765.00	
010-01561-10	GDL® 50R Datalink - ADS-B Receiver, Remote-mount	\$950.00	
010-01561-50	GDL® 51R Datalink - SiriusXM Receiver, Remote-mount	\$820.00	
010-01561-30	GDL® 52R Datalink - SiriusXM & ADS-B Receiver, Remote-mount	\$1,365.00	
010-12498-60	GDL® Remote Mount Connector Kit (Required to connect GDL to AXIS)	\$70.00	
010-02639-00	GA™ 35S GPS/WAAS Antenna (Required for GTX 45R with GPS)	\$400.00	
010-12498-50	GA™ 24 TNC - SiriusXM Antenna (Required for SiriusXM)	\$95.00	

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Step 8: Additional Options

The options listed below can enhance your AXIS system even further. Visit Garmin.com for additional information about these products.

Feature Enablements

Part Number	Description	Pricing As Low As	Selection (QTY)
006-B5211-00	AXIS ChartView™ Enablement	\$2,200.00	
006-B5211-01	AXIS SurfaceWatch™ Enablement	\$2,000.00	
006-B5211-02	AXIS TAWS-B Enablement	\$8,500.00	

Additional Accessories

Part Number	Description	Pricing As Low As	Selection (QTY)
010-02942-00	GHA™ 15 - Height Advisor	\$1,995.00	
010-02975-01	GCO™ 14 - Carbon Monoxide Detector	\$549.00	
010-01172-20	GAD™ 29C - ARINC 429 Interface Adapter	\$565.00	
011-03271-00	GAD™ 29 Connector Kit (Required to connect AXIS display)	\$90.00	
010-01525-10	GAD™ 27 - Electrical Interface Adapter	\$825.00	
011-03877-00	GAD 27 Connector Kit (Required to connect AXIS display)	\$165.00	
010-01074-00	GAP 26 - Unheated	\$340.00	
010-01074-10	GAP 26 - Heated/Unregulated	\$465.00	
010-01074-20	GAP 26 - Heated/Regulated	\$700.00	
010-01287-00	GI 260 - Angle of Attack Indicator (Not required to display on AXIS PFD)	\$380.00	
Various	GSB™ 15 USB Charger - See Garmin.com/GSB15 for Models & More	Varies	

Note: GAD 29 may be required if you're using an older GPS navigator with AXIS base displays or if you want navigation info on a G5.

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