

GUIDE TO UPGRADING TO THE GARMIN GFC™ 500 AUTOPILOT

1 Why Upgrade to the GFC™ 500?

Flying should be a joy — not a battle against outdated technology. If you have not added autopilot or your current autopilot is unreliable (or is no longer supported) the GFC 500 offers a smarter, lighter, and more reliable solution.

Top Reasons to Upgrade:

- Safety Enhancements: ESP™, under/overspeed protection
- Increased Confidence: One-touch Level Mode and envelope control
- Replace Aging Systems: Modern safety without complexity
- Lower Maintenance: Solid-state reliability
- Certified Value: STC-approved for many aircraft

2 Key Features of the GFC™ 500

Garmin's GFC 500 is a high-performance autopilot designed for piston singles and light twins.

Safety-Driven Technology:

- ESP™ (Electronic Stability & Protection)
- Under/overspeed protection
- One-touch Level Mode

Flexible Integration:

- Compatible with G5, GI 275, G3X Touch, TXi, GTN Xi
- Optional yaw servo for advanced coordination

Precision Flight Control:

- Attitude-based autopilot (AHRS)
- Altitude hold, VS, FD
- GPS steering & lateral nav
- Smart pitch trim & roll servo

3 Compatible Aircraft

Garmin's GFC 500 is approved for a wide range of aircraft:

- Cessna: 172, 182, 210, etc.
- Piper: PA-28 series, PA-32, etc.
- Beechcraft: Bonanza, Baron 55
- Embraer: EMB-710C, EMB-711A, EMB-720C, etc.
- Other manufacturers and models (see next page)

Contact us to confirm compatibility for your specific airframe.

4 Installation Considerations

Install Time: Typically 5-10 business days. Includes system compatibility review, and FAA return-to-service documentation.

Panel Planning: Our team can design and build your new custom panel.

Bonus: Pairing with G5 or GI275 may allow for removal of the vacuum system.

5 Why Rite-Way Aviation?

When trusting a shop with your autopilot system, experience matters.

Why Customers Choose Us:

- Experts at integrating complex systems
- Part 145 Repair Station: Fast, certified service that meets high FAA standards for quality, documentation and accountability
- Flawless installation and professional testing

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quote and timeline.**

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Website:



Quote Request:



Aircraft Models Currently FAA Approved for GFC 500 Installation:

- American Champion
 - Models: 8GCBC Scout (metal wing spar equipped aircraft only)
- Aviat Husky
 - Models: A-1, A-1A, A-1B, A-1C-180, A-1C-200
- Beechcraft Bonanza
 - Models: A35, B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC*, B36TC
- Beechcraft Bonanza/Debonair
 - Models: 33, A33, B33, C33, C33A, E33, E33A, E33C, F33*, F33A, F33C*, G33*
- Beechcraft Musketeer*, Sport*, Sundowner, Sierra
 - Models: 19, 23, 24
- Beechcraft T-34 Mentor
 - Models: T-34A/B (A45/D45)
- Cessna 172
 - Models: A*, B*, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, F172E, F172F, F172G, F172H, F172K, F172L, F172M, F172N, F172P, FR172K, P172D, R172K
- Cessna 172RG
 - Models: 172RG
- Cessna 175
 - Models: A*, B, C
- Cessna 177
 - Models: 177, 177A 177B, 177RG, F177RG
- Cessna 180
 - Models: 180, A, B, C, D, E, F, G, H, J, K
 - Robertson STOL compatibility: 180, A, B, C, D, E, F, G, H, J, K
- Cessna 182
 - Models: 182, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, T182, T182T, F182P, F182Q
- Cessna 182RG Series
 - Models: R182, FR182, TR182
- Cessna 185
 - Models: 185, A, B, C, D, E, A185E, A185F
 - Robertson STOL compatibility: 185, A, B, C, D, E, A185E, A185F
- Cessna
 - Models: 190, 195
- Cessna 206
 - Models: P206C, TP206C, U206C, TU206C, P206D, TP206D, U206D, TU206D, P206E, TP206E, U206E, TU206E, U206F, TU206F, U206G, TU206G, 206H, T206H
 - Robertson STOL compatibility: U206F, TU206F, U206G, TU206G, 206H, T206H
- Cessna 210
 - Models: 210-5, 210-5A, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, T210N
 - Robertson STOL compatibility: 210, C210L, T210L, T210K, T210M

(List continues next page)

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a AEROHP Company

Cessna

Beechcraft

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AUTHORIZED SERVICE FACILITY

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AUTHORIZED DEALER

Aircraft Models Currently FAA Approved for GFC 500 Installation:

- Cirrus SR22
 - Models: SR20* SR22*
- Commander 112/114
 - Models: Commander 112, 112A, 112B, 112TC, 112TCA, 114, 114A, 114B, 114TC
- Embraer Nieva (Brazil ANAC Approved Only)
 - Models: EMB-710C, EMB-710D, EMB-711A, EMB-711B, EMB-711T, EMB-711ST, EMB-712, EMB-720C, EMB-720D, EMB-721C, EMB-721D
- Grumman (American General) AA-5 Series
 - Models: AA-5 Traveler, AA-5A Cheetah, AA-5B Tiger, AG-5B Tiger
- Mooney M20
 - Models: C, D, E, F, G, J, K, M, R, S (including 1962-1964 C, D and E Models)
- Piper PA-24
 - Models: 180, 250, 260, 260B, 260C*
- Piper PA-28
 - Models: 140, 150, 151, 160, 161, 180, 181, 201T, 235, 236 (and Overhead Trim Models)
- Piper PA-28R
 - Models: 180, 200, 201, 201T
- Piper PA-28RT
 - Models: 201, 201T
- Piper Twin Comanche
 - Models: PA-301, PA-30B1, PA-30C1, PA-391 (including turbocharged models)
- Piper PA-32
 - Models: 260, 300, 301, 301T, 301FT, 301XTC
- Piper PA-32R
 - Models: 300, 301SP, 301HP, 301T
- Piper PA-32RT
 - Models: 300, 300T
- Piper Seneca
 - Models: PA-34-200T1, PA-34-220T1
- Socata Trinidad
 - Models: TB-20*, TB-21*

*Certain serial numbers excluded, see authorized Garmin installation center for details.

Light twin aircraft will require a [GI 275 Electronic Flight Instrument](#)

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