

R44 SERVICE BULLETIN SB-106

R66 SERVICE BULLETIN SB-37

DATE: 21 August 2020

TO: R44-series & R66 Owners, Operators, & Maintenance Personnel

SUBJECT: HeliSAS Autopilot Interface with Garmin PFD

EFFECTIVITY: Helicopters equipped with HeliSAS Autopilot and Garmin Primary Flight Display (PFD), originally installed in the following aircraft (helicopters with Aspen PFD are not affected):

R44 Helicopter S/Ns 2623 and prior,
R44 II Helicopter S/Ns 14387 and prior except 14364 and 14385,
R44 Cadet Helicopter S/Ns 30071 and prior,
R66 Helicopter S/Ns 0989 and prior except 0955, 0967, 0975, 0976, 0977, and 0983.

TIME OF COMPLIANCE: Within next 150 flight hours or by 31 December 2020, whichever occurs first.

BACKGROUND: The HeliSAS autopilot is designed to disengage the NAV and VRT modes if the Garmin display determines that the navigation signal has become invalid. Resistors in the wiring between the Garmin display and HeliSAS Flight Control Computer (FCC) are required for proper communication between the units. This bulletin requires adding resistors to prevent the autopilot from tracking degraded or intermittent signals.

COMPLIANCE PROCEDURE:

Refer to R44 Maintenance Manual (MM) § 24-30 or R66 MM § 22-30, as applicable. Perform one of the following options:

Option A: Return FCC to HeliSAS manufacturer S-TEC for upgrade to FCC Mod "B2" or Mod "C1" (resistors will be added inside computer).

1. Contact S-TEC customer support at (800) 872-7832 for a Service Repair Order (SRO) number and shipping instructions.
2. Remove FCC per R44 MM § 24-30 or R66 MM § 22-30, as applicable. Ship FCC to S-TEC for modification.
3. Install modified FCC per R44 MM § 24-30 or R66 MM § 22-30, as applicable.

NOTES:

- FCC modification at S-TEC requires approximately 2 weeks.
- Modification level of upgraded unit will be indicated on data plate as shown in Figure 1.

(OVER)

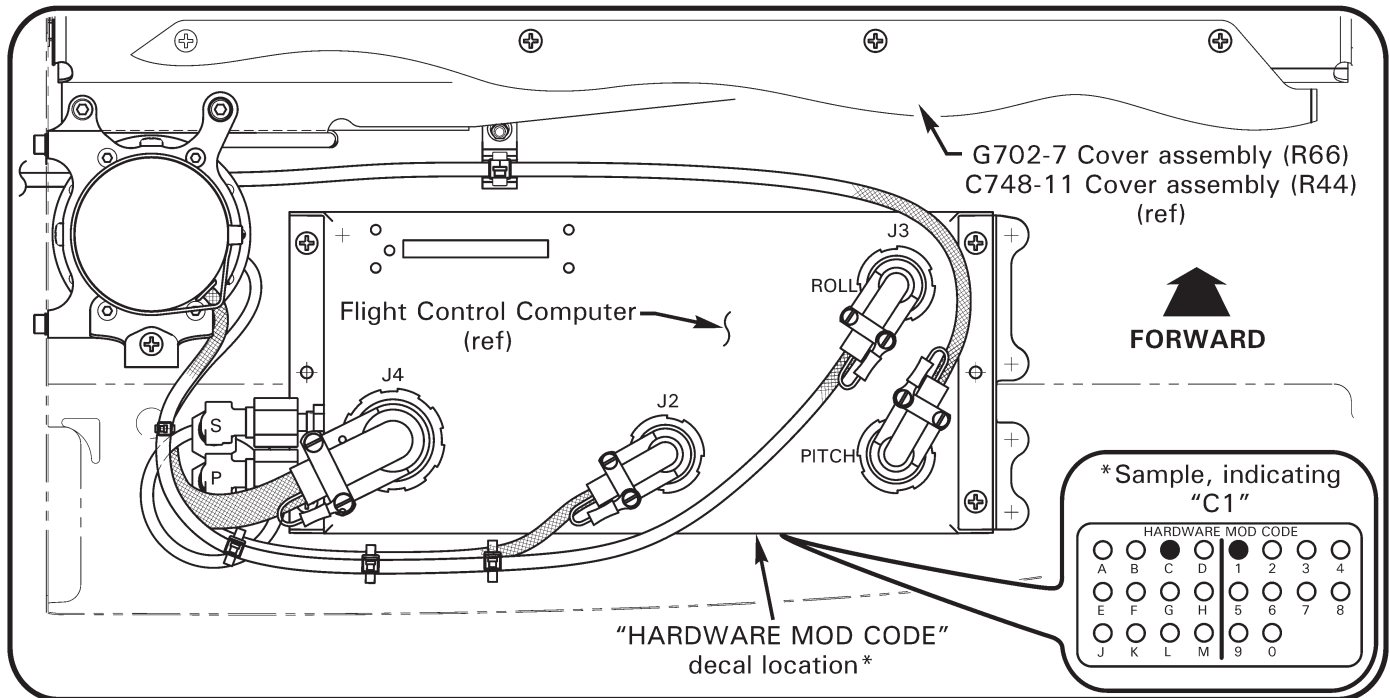


FIGURE 1

Option B: Ferry helicopter to an authorized S-TEC maintenance facility for installation of resistors in airframe wiring harness.

1. Contact S-TEC customer support at (800) 872-7832 to locate appropriate S-TEC dealer and schedule service appointment.

For installation, reference the following S-TEC Data:

	R44	R66
Reference	ST-931	ST-953
Schematic Drawing	09433	10235
Resistor Part Number	RN60D1003F(B14)	RN60D1003F(B14)

APPROXIMATE COST:

Parts: No charge for FCC upgrade at S-TEC. Customer is responsible for all shipping costs.

Labor: 2.0 man-hours for FCC removal and installation.

Up to \$250 labor reimbursement may be available from S-TEC. An S-TEC warranty claim form must be submitted (available at <https://warranty.genesys-aerosystems.com/>).

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.