

R66 F059 Cabin Harness Ground Wire Upgrade Kit Instructions

Applicable to helicopter S/N 0274 & prior. Installs & isolates engine oil pressure warning light ground thru F059-01 cabin harness [Revision I & prior]. Kit is not required if KI-223 (Rev D & prior) was previously installed.

NOTE

Visit <https://robinsonheli.com> to verify kit instructions are current revision. Review instructions before installation; contact RHC Technical Support with questions. Verify kit contents match list; contact RHC Customer Service if parts are missing or damaged.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-190Instr.	Kit Instructions	1
2	B260-3	Terminal – Ring	1
3	KI-223-1948	Wire Assembly (ground) Includes: [1] B274-22 Wire – 50-inch length (marked “-1948 KI-223”) [1] M39029/56-348 Socket	1
4	MS3367-4-9+	Ty-rap (Note: “+” in part number indicates 20-qty pack)	1
5	MS3367-5-0+	Ty-rap (Note: “+” in part number indicates 10-qty pack)	1
6	MS3367-5-9+	Ty-rap (Note: “+” in part number indicates 20-qty pack)	1
7	MS3367-7-9+	Ty-rap (Note: “+” in part number indicates 10-qty pack)	2

Consumables

Refer to R66 Maintenance Manual (MM) § 20-70 for approved materials list.

- B270-5 Sealant
- B270-20 Adhesive

Special Tools:

- Wire stripping and crimping tools

Kit Instructions

1. Turn BATTERY switch OFF. Disconnect battery negative (ground) cable per MM § 96-11 (lead-acid) or § 96-12 (lithium-ion).
2. Remove G040 engine cowling assembly per MM § 53-21.
3. Refer to MM Figure 71-1 and Figure 1. Locate D38999/26FC35SN plug on F059-01 (cabin) electrical harness. Remove and retain clamp screws & bar from backshell and loosen (backshell) collar. Disconnect cabin harness plug from (F049) engine harness receptacle. Remove ty-raps securing F059 harness wires to wire bundle.

Kit Instructions (continued)

4. Refer to Figure 1. Carefully route socket of KI-223-1948 wire assembly thru B158-8 heat shrink to cabin harness D38999/26FC35SN plug. Install socket in hole 22 of plug. Verify socket security. Tighten collar. Apply B270-20 adhesive to retained clamp screws and install bar to backshell. Torque screws to 40 in-oz.
5. Route wire (-1948) along F059 harness wires and thru NAS557-14A grommet on firewall, displacing B270-5 sealant as necessary, to ground bus depicted in Figure 2. Strip end of wire and crimp on B260-3 ring terminal. Inspect crimp per MM § 20-94 and verify security of terminal. Install terminal on least-populated ground stud using existing nut. Secure wires to harness using appropriately-sized ty-raps as required. Remove redundant ty-raps as desired.
6. Connect F049 (engine) electrical harness assembly to F059 (cabin) electrical harness assembly. Verify security. Secure F059 harness using appropriately-sized ty-raps as required.
7. Refer to IPC Figure 96-17-6 or 96-31-6. Reposition B270-5 sealant on aft-side of vertical firewall, covering NAS557-14A grommet and wiring, adding additional B270-5 sealant as required.
8. Connect battery negative (ground) cable per MM § 96-11 (lead-acid) or § 96-12 (lithium-ion).
9. Install G040 engine cowling assembly per MM § 53-21.
10. Make appropriate maintenance record entries. Weight and Balance change is negligible.

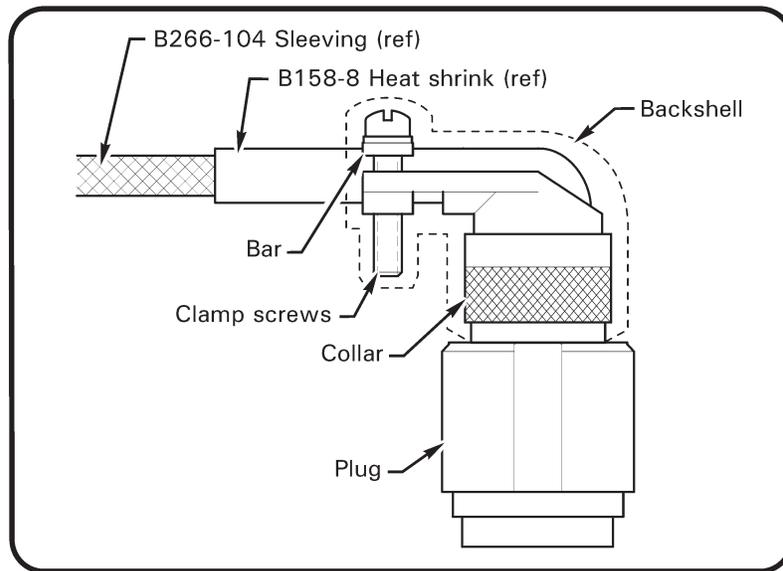


FIGURE 1 D38999/26FC35SN plug
(F059-01 cabin harness assembly)

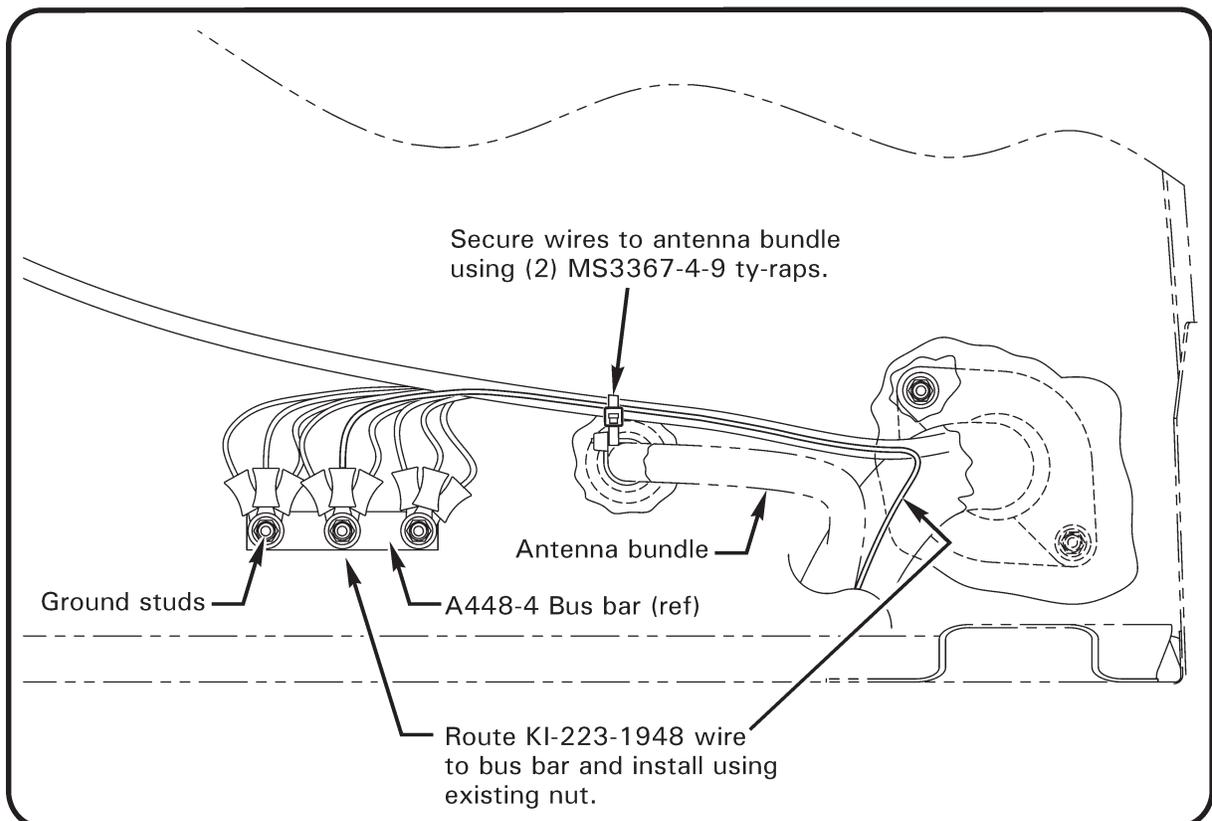


FIGURE 2 Bus bar ground location
(view looking forward)