

**R66 F049 Engine Electrical Harness Installation Kit Instructions***(To comply with R66 Service Letter SL-41; Supersedes KI-268)**Applicable to helicopter S/N 0275 thru 1021; for prior helicopter serial numbers, refer to KI-223. Replaces previous F049-09 & F049-012 engine harnesses with new F049-012.***NOTE**

Visit [www.robinsonheli.com](http://www.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-223-2Instr.	Kit Instructions . . . . .	1
2	F049-012	Electrical Harness Assembly – Engine (Revision R or subsequent) . . . . .	1
3	F173-2	Shield . . . . .	1
4	P15	Acid Brush . . . . .	1
5	1182N111	O-Ring . . . . .	1
6	5338A44	Probe . . . . .	1
7	MS3367-4-9+	Ty-rap (Note: “+” in part number indicates 20-qty pack) . . . . .	1
8	MS3367-5-0+	Ty-rap (Note: “+” in part number indicates 10-qty pack) . . . . .	1
9	MS3367-5-9+	Ty-rap (Note: “+” in part number indicates 20-qty pack) . . . . .	1
10	MS3367-7-9+	Ty-rap (Note: “+” in part number indicates 10-qty pack) . . . . .	2

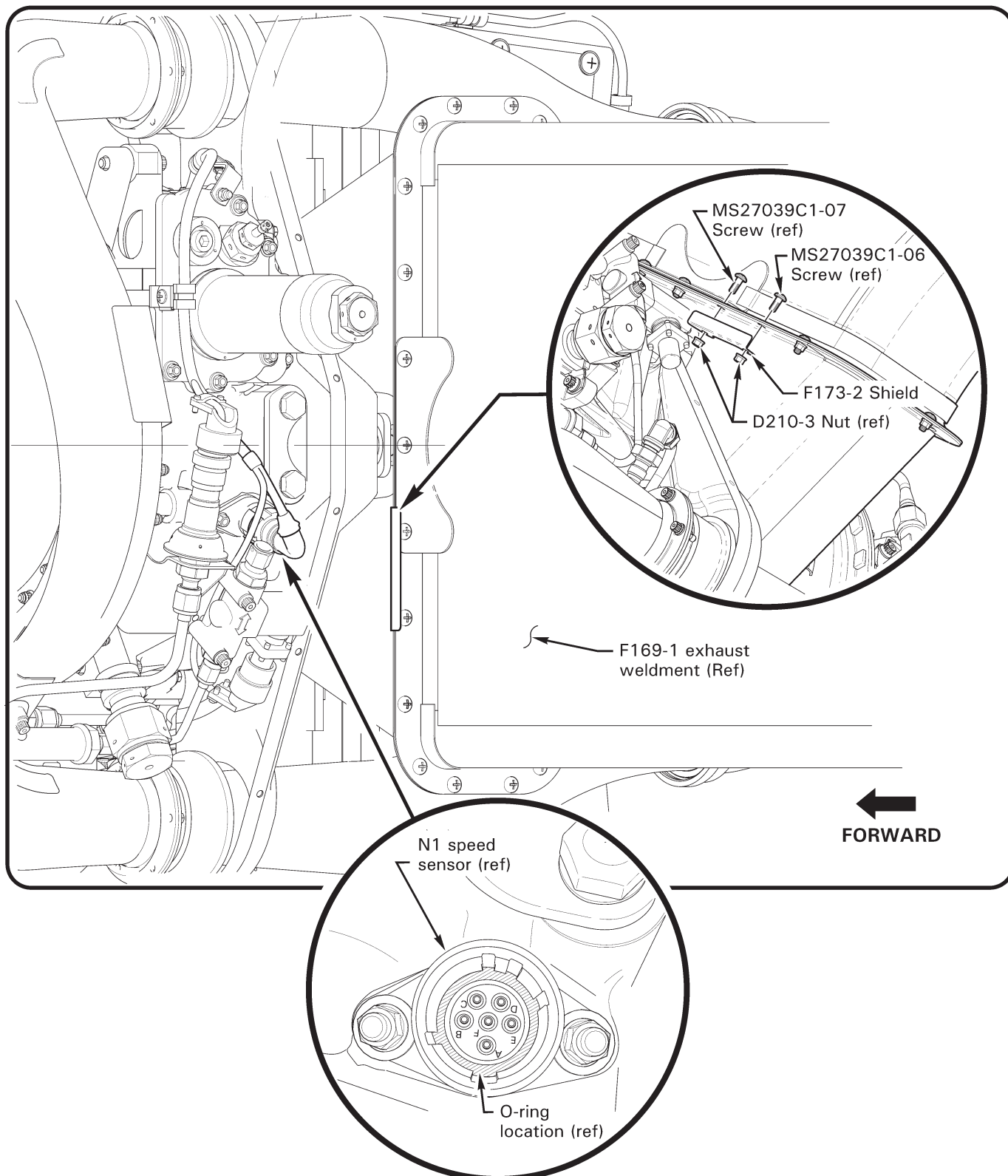
**Kit Instructions**

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. Remove F049 harness per MM § 71-11, step 4, retaining installation hardware.
4. Refer to Figure 1. In N1 speed sensor’s connector cavity, carefully remove existing O-ring using probe provided. Clean pins with acid brush dipped in isopropyl alcohol. Blow dry using compressed air. Install 1182N111 O-ring; avoid damaging adjacent pins.
5. Comply with Rolls-Royce SB RR300-72-014, if not previously accomplished.
6. Refer to IPC Figures 71-3, 71-5, & 71-7. Install F049-012 harness assembly per MM § 71-12, step 15 using retained hardware.

**For helicopter S/N 0972 thru 1072, proceed to step 8.**

**7. Perform the following on helicopter S/N 0275 thru 0971:**

- a. Refer to Figure 1. Remove & retain one MS27039C1-06 screw & one MS27039C1-07 screw and two nuts at locations shown.
  - b. Install F173-2 shield as shown, using retained hardware. Standard torque screws per MM § 20-32.
8. Connect F049-012 (engine) electrical harness assembly to F059-01 (cabin) electrical harness assembly. Verify security. Secure F059-01 harness using appropriately-sized ty-raps as required.
  9. Connect battery negative (ground) cable per MM § 96-11 (lead-acid) or § 96-12 (lithium-ion).
  10. Install G040 engine cowling assembly per MM § 53-21.
  11. Make appropriate maintenance record entries. Weight and Balance change is negligible.



**FIGURE 1**