



R66 SERVICE LETTER SL-46A
(supersedes R66 SL-46)

DATE: 17 April 2024 **REV A:** 08 October 2024

TO: R66 Owners, Operators, and Maintenance Personnel

SUBJECT: N1 Sensor Harness Assembly

EFFECTIVITY: F049-02, F049-09, or F049-012 engine harness revision T or prior, originally installed on R66 Helicopters S/N 0003 thru 1369, or sold as spares. F049-018 Revision U and subsequent engine harnesses are not affected. Engine harness part number & revision letter are printed on blue heat-shrink on harness near MGT thermocouple terminals.

BACKGROUND: Some helicopters experience erratic N1 indications and/or erroneous N1 EMU recordings. RHC's newly developed F049-019 N1 sensor harness assembly incorporates a reworked Rolls-Royce P/N RR30000206 N1 sensor and pots the sensor-harness connection for improved security and ruggedness. Affected engine harnesses & sensors exhibiting erratic indications and/or recordings may be replaced with the KI-296 kit. Kit availability is dependent on reworked N1 sensor availability; return of engine's existing N1 sensor (or core deposit) is required when ordering.

Spare P/N RR30000206 N1 sensors may be separately returned for repair/conversion to P/N F049-019 N1 sensor harness assembly.

NOTE: If return of same-serial number N1 sensor is desired, then check either box marked "Repair..." on the required [Component Return Authorization](#) form.

PROCEDURE:

As desired, install KI-296 Engine Electrical Harness & N1 Sensor Upgrade Kit on affected helicopter. R66 S/N 0274 & prior also require KI-190 for engine oil pressure warning light ground.

APPROXIMATE COST:

Contact [RHC Customer Support](#) for current pricing.