

# HUGHES **SERVICE INFORMATION**

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SUBJECT:

RETROFIT KIT - ALTERNATE BATTERY LOCATION

MODELS AFFECTED:

Model 269C Helicopter Serial Nos. 0001 through 0079

equipped with Exhaust Muffler Installation Kit P/N 269A8801

TIME OF COMPLIANCE: At Owners and Operators Discretion

PREFACE:

To provide an alternate battery location for the above affected

helicopters.

### Reference

269 Series - Basic Handbook of Maintenance Instruction, Issued 1 September 1970 Supplement C - 269 Handbook of Maintenance Instruction, Issued 1 September 1970

CUSTOMER SERVICE DEPARTMENT . HUGHES TOOL COMPANY . AIRCRAFT DIVISION . CULVER CITY, CALIFORNIA

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### MATERIALS

Sealant - Thiokol Type Synthetic Rubber

Cement - "Grip"

PR-1221B2 (Products Research Co., L.A. Calif., or equivalent) Commercial

TOOLS & EQUIPMENT

Drill - portable Drill bit - 0.190/0.204 in. dia.

Commercial Commercial

## PARTS LIST \*

\* When ordering, specify P/N 269A4902 Retrofit Kit - Alternate Battery Location consisting of the following for Model 269C helicopters:

Nomenclature	Part No.	Quantity
Support tube assembly	269A4902-3	1
Strip	269A4764-5	$\overline{2}$
Strip	269A4764-7	1
Nipple	269A4682-1	1
Nipple	269A4682-2	1
Box, battery	269A4119	1
Tube, drain	269A4117-3	1
Relay, battery	269A4113	1
Wire	AN4 (MIL-W-5086 Type III or	
	MIL-W-7139 HiTemp)	A/R
Wire	AN20 (MIL-W-5086 Type I or II	
Nut	MS20365-1032	4
Bolt	AN3-3A	2
Bolt	AN3-4	2
Bolt	AN4-6A	1
Screw	AN502-10-10	2
Washer	AN960-416	1
Washer	AN960PD10	4
Terminal	7-322010	4
Terminal	322009	2
Terminal	31889	1
Terminal	31882	5
Splice	32445	2
Sta-Strap (Panduit or		
equivalent)	SST-2	1

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#### PROCEDURE

- a. Check that all electrical power is OFF.
- b. Remove battery from helicopter, per Section 16 of Basic HMI.
- c. Remove battery from battery box.
- d. Remove wiring from starter relay; remove ground cable from helicopter frame.
- e. Position 269A4902-3 support tube and bracket assembly on center frame support struts, using -7 and -9 clamps as shown in Figure 1; secure clamps with hardware as shown. Relieve side of -9 clamp as necessary to clear 269A2218 strut on installation.
- f. Install 269A4764-5 strips and 269A4764-7 strip on brackets, using Grip cement or equivalent.
- g. Drill two 0.190/0.204 inch diameter (13/64 in.) holes 2.19 inches apart in battery box; install 269A4113 battery relay on box, using AN3-3A bolts, AN960PD10 washers and MS20365-1032 nuts.

### NOTE

Seal over heads of bolts on interior of battery box with PR-1221B2 sealant or equivalent.

- h. Inspect battery, per Section 2 of Basic HMI; install battery in battery box and secure cover.
- i. Position battery box on support tube and bracket assembly; secure box to bracket with AN502-10-10 screws and AN960PD10 washers; safetywire screws.

- j. Attach 269A4117-3 drain tube to battery box with Sta-strap; secure tube to aft crossbeam with Koroseal lacing.
  - k. Wire relocated battery assembly per wiring diagram.
    - 1. Route and secure wiring across aft crossbeam to starter relay.
    - 2. Install ground cable to support strut (to V-belt drive cover) attach lug as shown, using AN4-6A bolt and AN960-416 washer between bolt and terminal. The AN4-6A bolt replaces existing AN4-5A bolt. Clean ground contact surface to bare metal to ensure proper ground.
    - 3. Reverse location of battery switch and alternator switch on instrument console, so that double pole switch is for alternator and single pole switch is for battery; rewire as shown.
    - 4. Install nipples for wiring connection at battery relay terminals.
- l. Check relocated battery installation for discrepancies and for security of attachments.
  - m. Perform operational check of helicopter electrical system.

### WEIGHT & BALANCE DATA

Existing battery installation-Right hand (RH) 20.5 lbs. at 117.0 in. arm

New battery installation-Left hand (LH) 23.2 lbs. at 117.0 in. arm

