

SCHWEIZER MODEL 269C SERIES HELICOPTERS
CSP-C-1J

SCHWEIZER AIRCRAFT CORP.

Supplement to the Approved
Rotorcraft Flight Manual

For

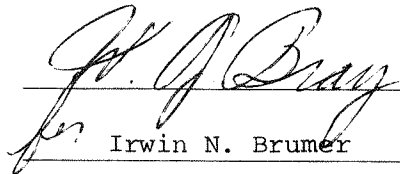
300C Model 269C Helicopters

(See Page 2 for Serial Number Effectivity)

NICKEL-CADMIUM BATTERY INSTALLATION

PART NO. 269A4987

Reissue #1 Approved By:



Irwin N. Brumer

Manager, ANE-170
New York Aircraft Certification Office

Date of Original Approval: 01 Sep 1983

Date of Reissue Approval: 21 Sep 1988

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ROTORCRAFT FLIGHT MANUAL SUPPLEMENT
NICKEL-CADMIUM BATTERY INSTALLATION
FOR
300C MODEL 269C HELICOPTERS

HELICOPTER SERIAL NO. EFFECTIVITY

269C Serial No. 120 and subsequent

LOG OF PAGES

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NOTE

The change bar (█) defines the latest FAA Approved changes.

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CONFIGURATION TABLE

Number Change	Date	Description
	Issued Reissued 21 Sep 1988	Per Drawing No. 269A4987 Updated to reformat

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SECTION I

INTRODUCTION

The battery is a rechargeable, nominal 24 volt, 13-ampere-hour, 19-cell, nickel-cadmium battery capable of starting the engine at temperatures from -25° to +130°F. Nineteen identical and individually-replaceable battery cells are contained in separate molded nylon cases and interconnected by bus bars. Cells are equipped with removable filler cap vent plugs. Two battery temperature sensing switches inside the battery sense battery temperature. The low (140°F) temperature switch activates a caution light and the high (160°F) temperature switch causes a warning light to illuminate, at the temperatures shown. The battery case and cover are secured to brackets on the airframe just aft of the crew compartment on the left side of the helicopter. Gasses generated within the battery are vented from cells out through a ventilation gap between each upper side edge of the case and battery cover.

This Supplement must be carried in the basic approved Model 300C (269C) Rotorcraft Flight Manual, when the rotorcraft is modified by the installation of the Nickel-Cadmium battery system in accordance with appropriate installation instructions. Refer to page 2 for a list of helicopter serial numbers affected.

Except as modified by this Rotorcraft Flight Manual Supplement, operation in compliance with Section II of the basic approved Rotorcraft Flight Manual is mandatory. Other sections of the RFM or Supplement are recommended procedures.

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SECTION II

OPERATING LIMITATIONS

No Change

SECTION III

EMERGENCY AND MALFUNCTION PROCEDURES

1. Battery Overtemp, 160°F and above:
 - a. Refer to Figure 3-1.
 - b. Red 160°F indicator lighted.
 - c. Set battery switch to OFF.
 - d. The battery is to remain off line during remainder of flight.

Note: Inspect battery in accordance with manufacturer's instructions upon landing. No further flights are authorized until battery is inspected and repaired if necessary.

- e. Land as soon as practical.

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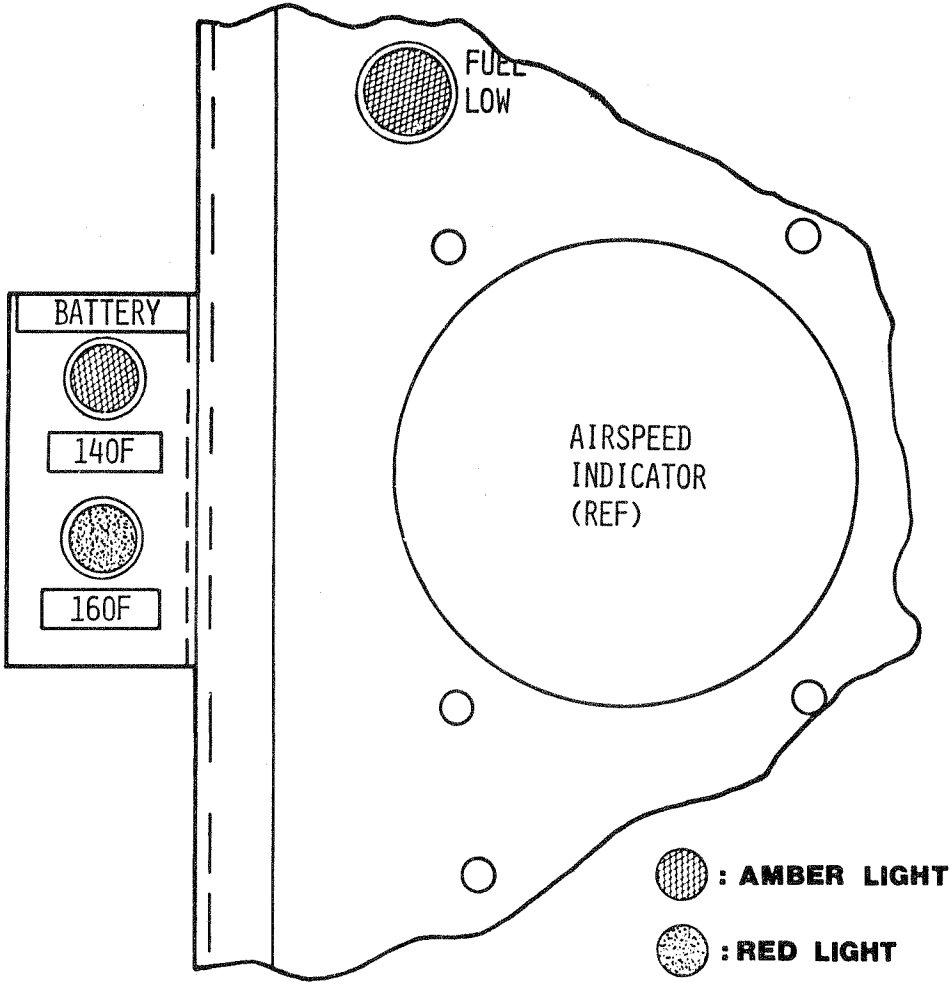


Figure 3-1. Battery Temperature Warning Lights

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WARNING

AN OVERHEATED BATTERY CAN CAUSE BURNS TO PERSONNEL UNLESS PROTECTIVE CLOTHING AND ADEQUATE TOOLS ARE UTILIZED. IN SOME INSTANCES THE BATTERY MAY CAUSE A SECONDARY FIRE, OR MAY RUPTURE ADDING THE FURTHER DANGER OF ELECTROLYTE BURNS. EXERCISE CAUTION IN DEALING WITH AN OVERHEATED BATTERY. MAINTAIN FIRE EXTINGUISHER READY FOR USE. THE USE OF THE FIRE EXTINGUISHER TO COOL THE BATTERY IS NOT RECOMMENDED.

2. Battery Overtemp, 140°F or above:
 - a. See Figure 3-1.
 - b. Amber 140°F indicator is lighted.
 - c. Set battery switch to OFF.
 - d. Battery is to remain off-line during remainder of flight.

Note: When the amber light goes out the battery has cooled to below 140°F.

Inspect battery in accordance with the manufacturer's instruction upon landing. No further flights are authorized until battery is inspected.

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SECTION IV

NORMAL PROCEDURES

1. Preflight Battery Inspection, Power OFF
 - a. Check battery case and mounting.
 - b. Check vents for obstructions.
2. Before Takeoff
 - a. Set battery switch to BAT.
 - b. Press-to-test battery temperature warning indicator lights.

SECTION V

PERFORMANCE DATA

No Change

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SECTION VI

WEIGHT AND BALANCE DATA

Item	Weight (pounds)	Station	Moment (in-lb)
Battery NI-CAD 13 A-H 369H4540-503	+ 6.7	116	+492

The weight change is due to the replacement of the lead acid battery with NI-CAD 13 A-H battery.