



FL-4

SERVICE LETTER

DATE: 1 MARCH 1985
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TO: All owners and operators of Hughes Helicopters

TRI-FLOW WASH PROCEDURE – MAIN ROTOR HUB

MODELS AFFECTED: All 530F Model 369F Series Helicopters

The attached Tri-Flow Wash procedure is designed to help prevent main rotor hub component corrosion on helicopters operated in marine environments. Preliminary results of field testing have shown the procedure to be effective in preventing corrosion when applied as recommended. Fresh water, spray lubricant (Tri-Flow) and washing compound with wax (Zip Wax or equivalent) are the materials required. Spraying apparatus with an adjustable nozzle is required to apply the materials.

Hughes Helicopters, Inc. recommends daily application of the wash procedure, prior to engine shutdown following the last flight of the day, for all helicopters operated or based in a marine environment. For helicopters operated and based in other environments, the procedure should be applied at each 25-hour inspection interval, or more frequently if desired.

Tri-Flow Lubricant is available from Costa Mesa Lubricant, P.O. Box 125, Olive Branch, MI 38654. Zip Wax is produced by Turtle Wax, Inc., 5655 West 73rd Street, Chicago, IL 60638.

A handwritten signature in black ink that reads 'Edward Koch'.

Edward Koch, Manager
Product Support Technical
Hughes Helicopters, Inc.

TRI-FLOW WASH PROCEDURE

NOTE: Perform step 1. below prior to engine shutdown, following the last flight of the day if possible. When the rotor stops turning, the laminates of the strap-pack spread apart slightly. Contaminates collected on the edges of the strap-pack assembly can enter the area between the laminates as they spread apart. If the rotor continues turning until the contaminants are washed away, centrifugal force will keep the laminates compressed and not allow the corrosive substances to enter the area between the laminates.

- (1). Bring engine to ground idle (64 - 65 percent N1); set SCAV AIR to on (Pilot's Flight Manual). Perform the following:

WARNING: Use care when working around turning rotor blades. Stay low. Remain on right side of helicopter to avoid tail rotor blades.

- (a). Spray fine fresh water mist on main rotor blades.
 - (b). Direct a strong stream of fresh water into main rotor hub and control system at main rotor hub.
 - (c). Spray entire rotor hub with Tri-Flow Lubricant.
- (2). Shutdown engine (Pilot's Flight Manual). When rotor blades stop turning, spray strap-packs with Tri-Flow Lubricant. Lift blades to separate laminates and spray Tri-Flow between laminates.
 - (3). Perform engine water wash (Section 2, HMI Volume 1).
 - (4). Wash remainder of helicopter exterior using fresh water spray.
 - (5). Wash main rotor blades with Zip Wax or equivalent, mixed per manufacturers instructions.