



HN-209*
DN-149*
EN-37
FN-26

SERVICE BULLETIN

DATE: 15 SEPTEMBER 1987
PAGE 1 OF 3

MANDATORY

* Supersedes Service Information Notices HN-194 & DN128, Dated 09 July 1984.

SUBJECT: 369A8010 ENGINE OIL PRESSURE AND TORQUE TUBING PULL TEST.

MODELS AFFECTED: All McDonnell Douglas Helicopter Company (MDHC) 369 Series helicopters including the 369A (OH-6A) Series helicopter.

TIME OF COMPLIANCE: The requirements of this Notice shall be accomplished within the next 100 hours of helicopter operation, if it has not already been complied with, and any time the 369A8010 oil lines and related firewall fittings are removed and reinstalled or replaced.



In addition, this Notice shall be complied with anytime there are indications of oil leaks around the 389A8010 oil tubing at the firewall fittings.

PREFACE: Procedures in this Notice describe an inspection of two nylon tubes used as oil pressure and torque pressure lines for proper swaging of the tube assemblies connected to the firewall fittings. If not properly swaged, the tubes can pull out of the fittings, causing loss of engine oil which may result in damage to the engine and surrounding components.

REFERENCE PUBLICATIONS:

- 369H Basic HMI (CSP-H-2) Revised 15 June 1985
- 368D/E HMI Vol. I (CSP-D-2) Revised 15 June 1985
- 368F/FF HMI Vol. I (CSP-F-2) Revised 15 April 1986
- Applicable Pilot's Flight Manual (for helicopter operation)

TOOLS AND EQUIPMENT	
Nomenclature	Source
Duct tape (2 inch wide)	Commercial
Cord (30 lb. test min.) two to three feet long	Commercial
Spring scale, short body (0-25 lb. min)	Commercial

MANDATORY

SERVICE BULLETIN

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///

PROCEDURE

a. Release and prop open filter bypass door or plenum chamber access door.

CAUTION

Use care to prevent entry of foreign objects (FOD) into engine air inlet. Install cover over engine air inlet. Do not remove cover until work is completed and any debris or other materials are thoroughly cleaned out of the area. After removing the cover, verify that area around base of mast, inlet plenum and entire plenum chamber is free from foreign material.

b. Wrap duct tape around oil pressure tube, approximately one inch in front of bulkhead fittings. (See Figure 1.)

NOTE

Before performing the following step, it may be necessary to practice tying the rolling hitch, as shown in Figure 1, using one hand. The rolling hitch is used to attach the cord to the tube assemblies while performing the pull tests.

c. Tie a small loop in one end of a two to three foot length of cord. Tie opposite end of cord around oil pressure tube using a rolling hitch; slide rolling hitch down tube until it rests on duct tape; tighten hitch, (See Figure 1.)

d. Using a short body length spring scale (capacity - 0-25 lb.), attach hook on scale to loop in free end of cord. Apply 15-20 lbs. straight pull, using cord, on oil pressure tube for approximately 15 seconds. If tube pulls partially or completely out of fitting, replace fitting. Remove scale and cord from tube assembly.

e. Repeat steps B through D for torque pressure tube assembly.

f. Remove FOD cover installed over engine air inlet. Verify that area around base of mast, inlet plenum and entire plenum chamber is free of debris and other foreign materials.

g. Start and operate helicopter at ground idle for two minutes minimum.

h. Shutdown helicopter. After rotor blades have stopped turning, check oil pressure and torque pressure tubing at the firewall fittings for any indications of leakage. Replace fitting(s) if any leakage is noted. (Section 17 of applicable HMI).

i. Close filter bypass door and chamber access door.

j. Record compliance to this Service Information Notice in the Compliance Record Section of the helicopter Log Book.

WEIGHT AND BALANCE: Weight and balance not affected.

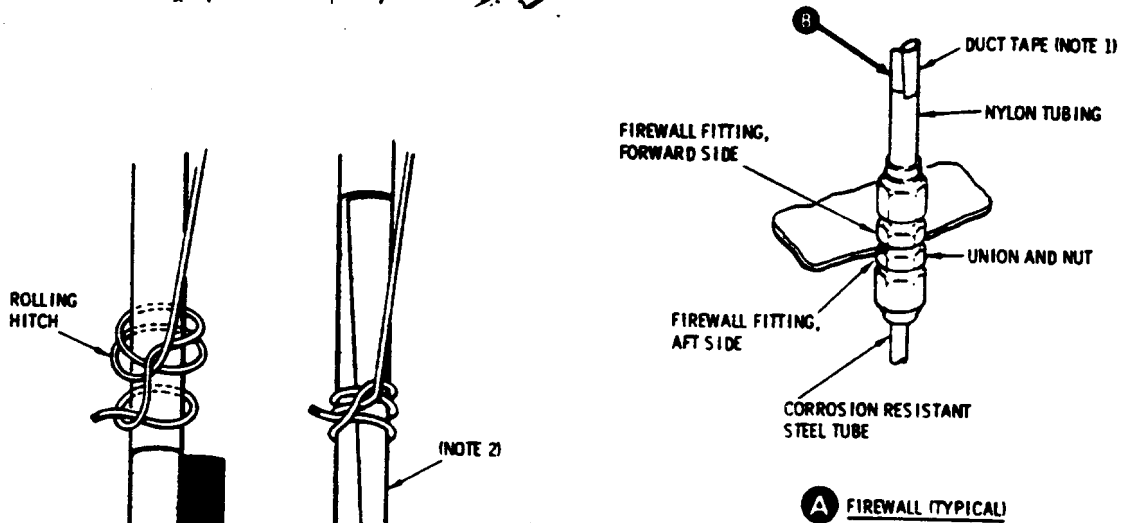
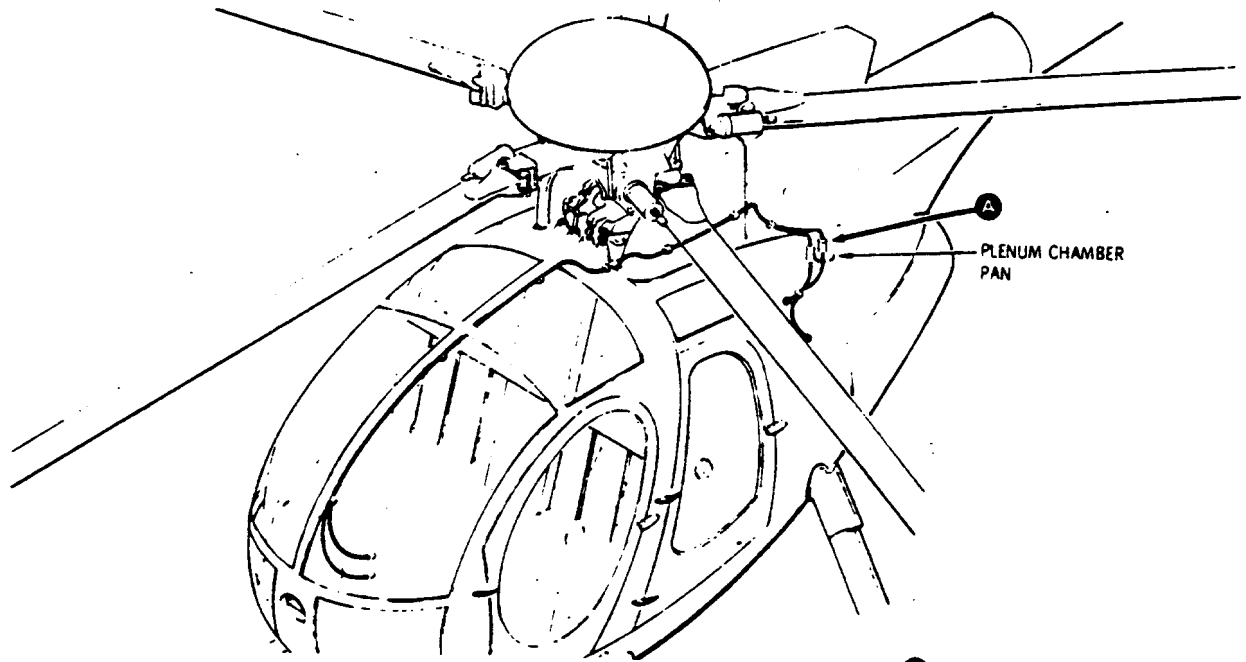
The resultant alteration to effected models as described by procedures in this notice has been shown to comply with Federal Aviation Regulations and is FAA Approved.

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///

SERVICE BULLETIN

DATE: 15 SEPTEMBER 1987
 PAGE 3 OF 3

MANDATORY



NOTES:

1. WRAP TUBE AT LEAST ONCE WITH TWO INCH WIDE DUCT TAPE APPROXIMATELY ONE INCH FROM FITTING.
2. SLIDE HITCH DOWN TUBE UNTIL IT RESTS ON DUCT TAPE.

Figure 1. Oil and Torque Pressure Tubing Pull Test Inspection

MANDATORY