



SERVICE BULLETIN

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REWORK OF PN 369D290125-21 MIST ELIMINATOR ASSEMBLY – ENGINE AIR INLET FILTER (PARTICLE SEPARATOR) ASSEMBLY, PN 369H90148-507 AND 369H90148-509

1. PLANNING INFORMATION

A. MODELS AFFECTED:

All Model 500D Helicopters equipped with subject PN 369H90148-507 and -509 Particle Separator Assemblies at date of this Notice.

All PN 369D290125-21 (APM PN AE-A224-1D2) Mist Eliminator Assemblies in Spares Inventory at date of this Notice.

B. PREFACE:

The information given in this Service Information Notice lists a procedure for removal of wire staples from the subject mist eliminator assemblies, to preclude the possibility of dislodged or damaged staples being ingested by the helicopter engine.

The attached Aircraft Porous Media Inc Service Bulletin provides detailed instructions for staple removal.

C. TIME OF COMPLIANCE:

Shall be accomplished within next 50 hours of helicopter operation.

Shall be accomplished prior to installation of subject Mist Eliminator Assembly in Spares Inventory.

D. FAA APPROVAL:

FAA APPROVED

E. WEIGHT AND BALANCE DATA:

Weight and balance not affected

F. REFERENCE:

Model 500D Basic HMI - Volume I, Issued 15 September 1976; Revision No. 3, 15 March 1979

IPL and Maintenance Instruction Publication No. CSP-004 for Engine Air Inlet Filter (Particle Separator) PN 369H90148-503, -505, -507 and -509, Issued 15 March 1979
Aircraft Porous Media Inc Service Bulletin No. APM-TM-79-14, dated 15 March 1980

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2. PROCEDURE

a. As applicable, remove mist eliminator assembly from helicopter. (Refer to Publication No. CSP-004).

b. Check Aircraft Porous Media (APM) Serial Number on mist eliminator assembly,

NOTE: If APM Serial Number is 005 through 069, perform steps c, d and e below; otherwise perform steps d and e only,

c. Remove wire staples from mist eliminator assembly per attached APM Service Bulletin No. APM-TM-79-14.

d. Reinstall mist eliminator assembly on helicopter, as applicable.

e. Record compliance with this Service Information Notice in Compliance Record of helicopter Log Book; or tag Spares mist eliminator assembly and record compliance with this Notice in helicopter Log Book at installation of tagged unit.

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SERVICE BULLETIN

Airframe - Engine Air Mist Eliminator - Removal of Wire Staples
from Mist Eliminator Assembly.

1. PLANNING INFORMATION

A. Effectivity

Mist Eliminator Assembly, Serial Nos. 005 to 069, Part No. AE-A224-1D2 (Hughes Part No. 369D290125-21) installed on Hughes Model 500D Helicopters or stocked as spare parts are affected by this Service Bulletin.

B. Reason

To eliminate the possibility of dislodged or damaged wire staples attached to the Mist Eliminator Pad and/or Screen being ingested by the engine.

As the staples are not required for the safe physical or functional operation of the Mist Eliminator, removal will preclude engine damage from this source.

C. Description

This Service Bulletin provides removal instructions of all staples from the Mist Eliminator Assembly.

D. Compliance

It is recommended that this Service Bulletin be accomplished within the next 50 hours.

E. Approval

None

F. Manpower

With the Mist Eliminator readily accessible on a bench, approximately 0.5 manhours will be required to accomplish this Service Bulletin.

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from Mist Eliminator Assembly.

G. Material

No new materials are required to accomplish this Service Bulletin.

H. Tooling

No special tools are required to accomplish this Service Bulletin.

Common tools consisting of a needle nose pliers and possibly a wire cutter will be required to accomplish this Service Bulletin.

I. Weight and Balance

Not affected.

J. References

None

K. Previous Modifications

There are no previous modifications.



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Airframe - Engine Air Mist Eliminator - Removal of Wire Staples
from Mist Eliminator Assembly.

2. ACCOMPLISHMENT INSTRUCTIONS

With the Mist Eliminator Assembly removed from the helicopter,
accomplish the following:

WARNING: IT IS MANDATORY THAT EVERY PIECE OF A REMOVED STAPLE BE
ACCOUNTED FOR AND PROPERLY DISPOSED OF. FAILURE TO DO SO
CAN CAUSE A REMAINING PIECE TO BE INGESTED BY THE ENGINE.

CAUTION: THE INSTALLED WIRE STAPLES DO NOT NECESSARILY CONFORM TO
ONE SPECIFIC SHAPE. CARE MUST BE EXERCISED NOT TO DAMAGE
THE MIST ELIMINATOR PAD DURING THE REMOVAL PROCESS. REFER
TO FIGURE 1.

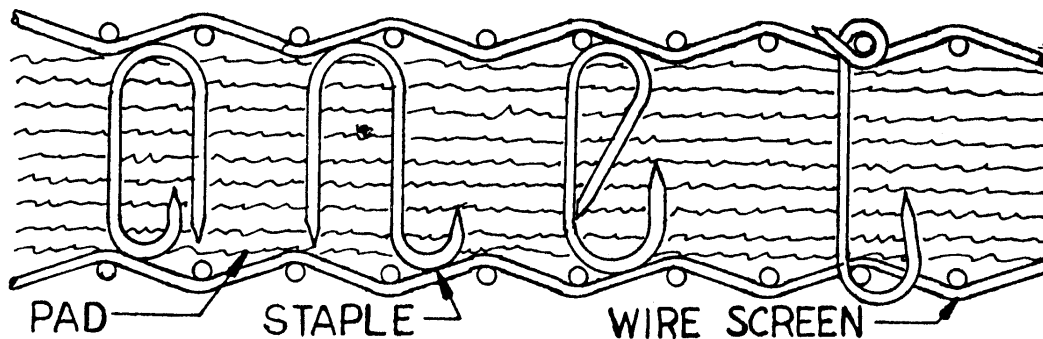


Figure 1. Sample Staple Installations

- A. Place Mist Eliminator on a clean bench that is free of all materials that can snag and damage the Mist Eliminator Pad or the wire screening, or become entrapped therein.



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Airframe - Engine Air Mist Eliminator - Removal of Wire Staples
from Mist Eliminator Assembly.

NOTE: If difficulty is experienced in straightening the staple legs described in Step B, below, suspend all efforts and proceed to Step C.

- B. Using a needle nose pliers straighten one or both legs of the installed staple. Carefully pull the staple through the pad material and the wire screen. Refer to the above "WARNING" note. Repeat until all staples are removed.
- C. Should Step B, above, prove unsuccessful, perform the following operations:
 - (1) Without damaging the pad material or wire screening, cut the staple in the bend area(s) using an appropriate wire cutter.
 - (2) Remove all pieces of the staple without damaging the pad or screening.
 - (3) Match all pieces from sharpened end to sharpened end to ensure that the complete staple has been removed (approximately 5 inches long). Refer to the above "WARNING" note.
 - (4) Repeat steps C (1) through C (3) until all staples are removed.

3. MATERIAL INFORMATION

A. Material Requirements

No new materials are required to accomplish the intent of this Service Bulletin.

B. Bill of Materials

None