



TECHNICAL BULLETIN

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INSTALLATION OF AIR BAFFLE, SEAL AND COVER ASSEMBLIES – TRANSMISSION COMPARTMENT

1. PLANNING INFORMATION

A. Models Affected

500D Model 369D Helicopter Serial No. 0003D through 0333D.

B. Time of Compliance

At owners and operators discretion.

C. Preface

The information given in this Service Information Notice lists a procedure for field installation of air baffles and seals and cover assemblies in the upper section of the aft transmission compartment to prevent entry of plenum air and moisture into the cabin area.

D. Reference

500D Basic HMI-Volume I, Issued 15 September 1976; Revision No. 1, 15 November 1977.

Hughes Service Information Notice No. DN-I2, dated 18 November 1977.

E. Weight And Balance

Changed Weight:

Weight (lbs): +1.5

Arm (inch): Station 110.2

Moment (inch- lbs): +169

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2. ACCOMPLISHMENT INSTRUCTIONS

A. Parts, Supplies, and Materials

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Aft Baffle Assembly, Upper –Aft Transmission Compartment	369D26541–19	1	HH
Aft Baffle Assembly, Lower –Aft Transmission Compartment	369D26542	1	HH
Air Seal Assembly, LH – Aft Transmission Compartment	369D26543–11	1	HH
Air Seal Assembly, RH– Aft Transmission Compartment	369D26543–21	1	HH
Cover Assembly, LH – Transmission Compartment	80–369D26545–11	1	HH
Cover Assembly, RH – Transmission Compartment	80–369D26545–21	1	HH
Screw	NAS603–8	16	Commercial
Washer	AN960PD10L	16	Commercial
Nut	MS21042L3	4	Commercial
Trim Cover Panel Assembly (LH Rotor Brake Handle Assembly)	369D26524–25 (Modified)	1	HH
	or		
*Trim Cover Panel Assembly (RH Rotor Brake Handle Assembly)	369D26524–26 (Modified)	1	HH

*Not applicable if presently installed on helicopter, per Hughes Notice No. DN–12.

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MATERIAL	
Nomenclature	Source
Sealing Compound, EP711	Coast ProSeal, Compton, CA
Caulking Compound, PR1221	Product Research, Burbank, CA
Seal, Sponge Rubber, DE-41	Armstrong Cork Co., Lancaster, PA

B. Installation Procedure

- (1). Remove engine air inlet forward fairings. (Refer to Basic HMI - Vol I.)
- (2). Remove PN 369D25640 cooling fan inlet screw.
- (3). Remove aft compartment interior trim panels and blower access door.
- (4). Install PN 369D26541-19 upper baffle assembly as follows:
 - (a). Position baffle between main transmission and mast support structure; align four attach holes in baffle with existing holes in structure. (See Figure 1.)
 - (b). Install baffle with screws, washers and nuts; seal screw heads with sealant.
- (5). Install PN 369D26542 lower baffle assembly as follows:

NOTE: During installation of lower baffle, disconnect heater duct at forward attach point and insert duct through 2.00-inch diameter hole in baffle.

- (a). Secure lower baffle to upper baffle with two screws and washers at matching nutplates in upper baffle.
- (b). Disconnect 5/8-inch diameter drain tube at mast support base and insert tube through hole in baffle. Safetywire drain tube to structure.
- (6). Reinstall PN 369D22070 blower access door.
- (7). Position and install PN 369D26543-11 and -21 seal assemblies at lower baffle and blower access door as shown. Install seal assemblies with screws and washers at matching clipnuts on lower baffle and on blower access door.

NOTE: If excessive gap (0.06 or more) exists between structure and rubber extrusion on seals, fill gap by bonding strip of adhesive-backed gasket to structure, (See Detail A.)

- (8). Position PN 369D26545-11 and -21 cover assemblies as shown; align cover attach holes with existing fairing attach nutplates. Temporarily secure cover assemblies with screws and washers, 5 places each.
- (9). Check installation of baffles, seals and cover assemblies for discrepancies.
- (10). Using caulking compound, seal all gaps between fuselage structure and baffle, seal and cover assemblies.
- (11). Remove screws securing cover assemblies; reinstall engine air inlet forward fairings.

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(12). Reinstall aft compartment trim.

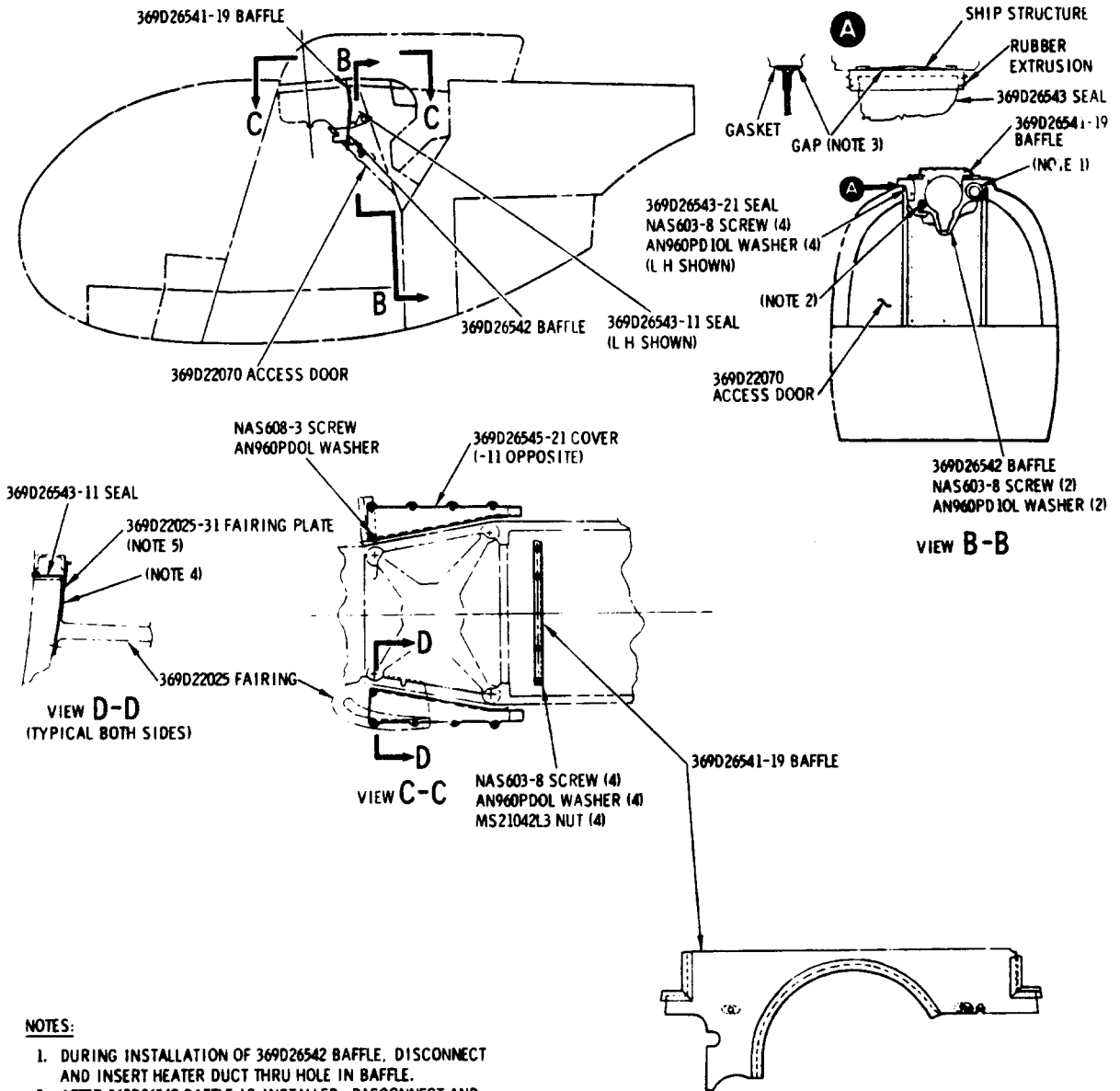
(13). For helicopters equipped with Rotor Brake Kit, perform the following:

NOTE: Not applicable if modified rotor brake handle trim cover panel has already been installed, per Hughes Notice No. DN-12.

- (a). Carefully trim modified trim cover panel assembly (for LH or RH rotor brake handle assembly); locate and drill screw attach holes in modified panel.
- (b). Slide modified trim panel boot over brake handle; align screw holes and check panel for fit. As required, remove panel and make minor trim adjustments.
- (c). Install panel, if removed; secure panel with attaching hardware.
- (d). Push panel boot aft on brake handle approximately two inches; secure boot with fastener tape.

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NOTES:

1. DURING INSTALLATION OF 369D26542 BAFFLE, DISCONNECT AND INSERT HEATER DUCT THRU HOLE IN BAFFLE.
2. AFTER 369D26542 BAFFLE IS INSTALLED, DISCONNECT AND ROUTE DRAIN TUBE THRU HOLE IN BAFFLE.
3. IF EXCESSIVE GAP (0.06 X 1.00 OR MORE) EXISTS BETWEEN STRUCTURE AND RUBBER EXTRUSION ON SEALS, FILL GAP BY BONDING STRIP OF ADHESIVE-BACKED GASKET TO STRUCTURE.
4. NO. 10 SCREW HOLE IN FAIRING ON SHIPS. DO NOT USE THIS HOLE TO INSTALL COVER OR FAIRING.
5. TRIM PLATE AS REQUIRED TO CLEAR SCREW HEAD.

Figure 1. Installation of Air Baffle, Seal and Cover Assemblies (Sheet 1 of 2)

