



TECHNICAL BULLETIN

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DRAIN KIT INSTALLATION, PN 369D28300-501 ENGINE OIL TANK AND OIL COOLER

1. PLANNING INFORMATION

A. MODELS AFFECTED:

Model 369HS Helicopter Serial No. 0201S and subsequent
Model 369HE Helicopter Serial No. 0201E and subsequent

B. PREFACE:

The information given in this Service Information Notice lists a procedure for incorporating more readily accessible oil drain installations on the above affected helicopters, to facilitate draining and maintaining the engine oil system. Field modification consists primarily of removing the existing quick-drain valve on the forward side of the engine firewall, and routing new drain tubes with end caps located on the aft side of the ring structure in the engine compartment A decal is also provided to identify each oil drain installation.

C. TIME OF COMPLIANCE:

At owners and operators discretion

D. FAA APPROVAL:

FAA/DER APPROVED 13 August 1980

E. WEIGHT AND BALANCE:

Weight and balance not affected

F. REFERENCE:

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 7, 15 December

G. MATERIALS:

MATERIALS	
Nomenclature	Source
Primer, zinc chromate	

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H. PARTS LIST:

PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
PN 369D28300-501 Engine Oil Tank and Oil Cooler			
Drain Kit Consisting of the following:			
Decal	369D24044	1	HH
Doubler	369D28300-3	1	HH
Doubler	369H2532-17	1	HH
Tube Assembly	369D28313	2	Commercial
Tube Assembly	369D28314-11	1	Commercial
Tube Assembly	369D28314-21	1	Commercial
Bracket	369D28315	1	Commercial
Union	AN815-4J	2	Commercial
Elbow	AN833-4J	2	Commercial
Nut	AN924-4J	4	Commercial
Cap Assembly	AN929-4J	2	Commercial
Elbow	AN939-4J	2	Commercial
Washer	AN960-C716	8	Commercial
Rivet	MS20615-3M	6	Commercial
Tie Strap	MS3367-2-9	2	Commercial
Grommet	MS35489-6	1	Commercial
Packing	NAS617-4	4	Commercial
Rivet	NAS1738M4 - 1	6	Commercial
Union, bulkhead	SS-400-61	2	Commercial
Nut	SS-402-1	2	Commercial
Ferrule, front	SS-403-1	2	Commercial
Ferrule, back	SS-404-1	2	Commercial

I. TOOLS AND EQUIPMENT:

TOOLS AND EQUIPMENT	
Nomenclature	Source
Gun, rivet	
Drill motor, portable	
Drill bit - 0.500 inch dia (1/2)	
Drill bit - 0.451 inch dia (29/64)	
Drill bit - 0.437 inch dia (7/16)	
Drill bit - 0.140 inch dia (#28)	
Drill bit - 0.094 inch dia (#41)	

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2. PROCEDURE – PN 369D28300–501 DRAIN KIT INSTALLATION

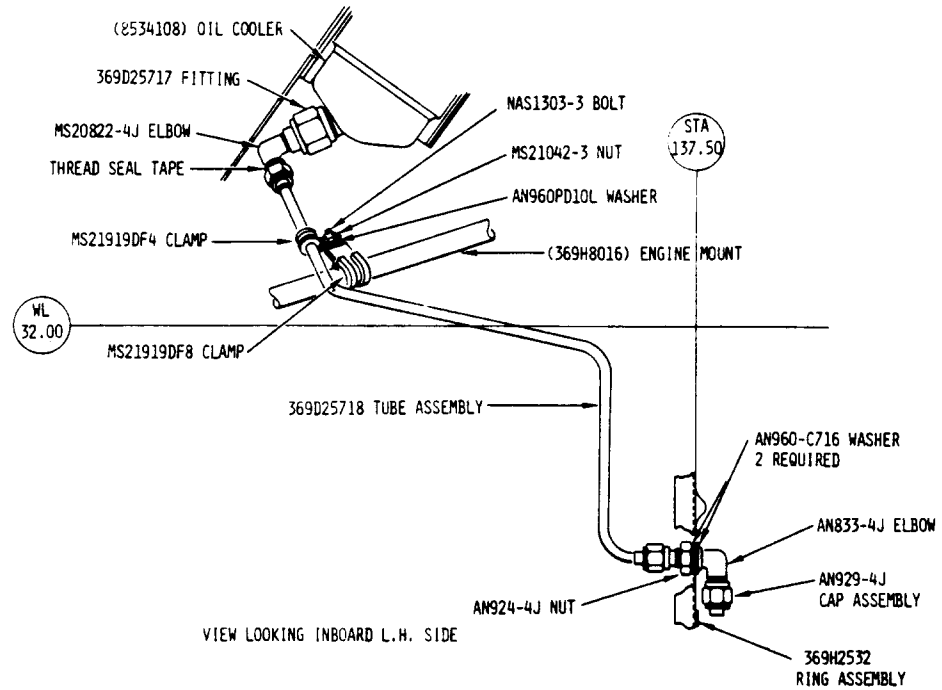
- a. Open engine access doors; remove aft compartment interior trim and aft bulkhead access covers. (Refer to Section 2 of Basic HMI)
- b. Drain engine oil system. (Refer to Section 2 of Basic HMI)
- c. Remove existing PN 369A8324 quick drain valve, overboard drain tube and related components as follows:
 1. Disconnect and remove PN 369A8010–41 overboard drain tube from drain valve and helicopter structure. (Refer to Section 13 of HMI)
 2. Disconnect and remove drain valve from PN 369A8010–601 and –603 tube assemblies (or 369D283 14–11 and –21 tube assemblies, if installed) from engine oil tank and oil cooler.
 3. Remove two PN NAS1303–1 bolts, MS2104–3 nuts and AN960PD10L washers securing PN 369A8325 drain valve bracket (with drain valve) to firewall. Discard valve and bracket; retain attaching hardware.
- d. Rework helicopter structure as follows:
 1. Using PN 369H2532–17 doubler as template, mark and drill two 0.453 inch diameter holes and six 0.094 inch diameter rivet holes in RH side of PN 369H2532 ring assembly. Install doubler on aft side of ring, using MS20615–3M rivets with zinc chromate primer. (See Figure 1.)
 2. Drill 0.437 inch diameter hole outboard of existing hole in 369D23016–6 rib at dimensions shown in Detail A. Install MS35489–6 grommet in hole in rib.
 3. Using PN 369D28300–3 doubler as template, mark and drill 0.500 inch diameter hole and six 0.140 inch diameter rivet holes in 369D23020 firewall at dimensions shown in Detail B. Install doubler using NAS1738M4–1 rivets with zinc chromate primer.
- e. Install new drain tubes and fittings as follows:
 1. Assemble AN815–4J union on AN939–45 elbows as shown, using NAS617 packings. Install SS–400–61 unions on 369D283 15 bracket and AN939–4J elbows and secure with AN924–4J nuts.
 2. Install 369D28315 bracket on firewall, using existing attach hardware.
 3. Connect 369D283 13 drain tubes to unions with SS–402–1 nuts, SS–403–1 and SS–404–1 ferrules as shown, Do not tighten nuts at this time.
 4. Route 369D293 13 tube assemblies between firewall and ring assembly as shown; secure tubes at ring assembly using AN833–4J elbows, AN960–C716 washers and AN924–4J nuts as shown.
 5. Connect existing 369A8010–601 and –603 (or 369D28314–11 and 121) tube assemblies to unions on elbows as shown.
 6. Secure 369D28313 tube assemblies to 369H8306 oil OUT hose assembly with tie straps as shown. Tighten SS–402–1 nuts (securing drain tubes to unions) 1.25 turns from fingertight.
 7. Install AN929–4J cap assemblies.

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8. Install 369D24044 engine oil drain decal on aft side of ring assembly as shown.
- f. Check new engine oil system drain installation for discrepancies. Service engine oil system, per Section 2 of Basic HMI.
- g. Reinstall interior trim and aft bulkhead access covers; close engine access doors.

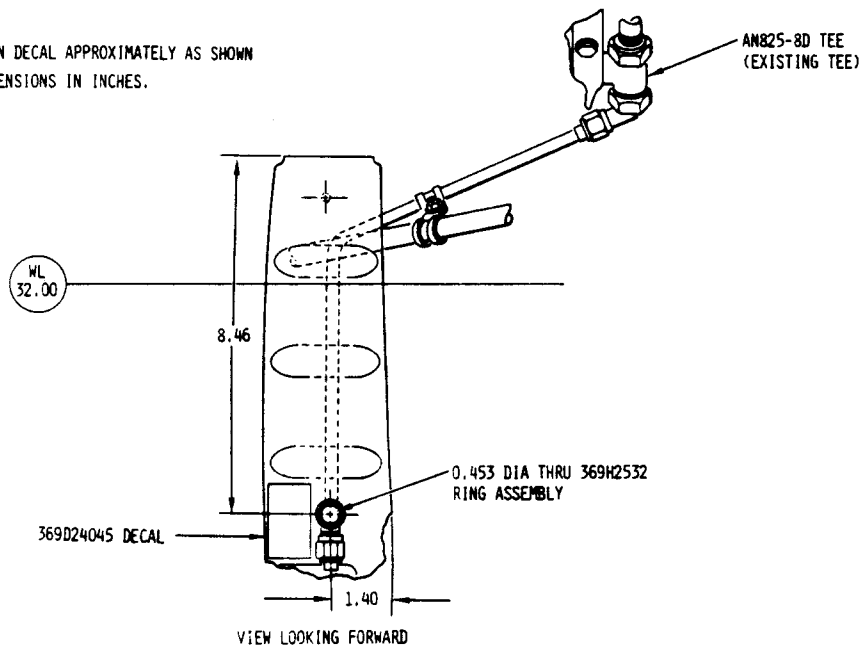
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NOTES:

1. POSITION DECAL APPROXIMATELY AS SHOWN
2. ALL DIMENSIONS IN INCHES.



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Figure 1. Drain Kit Installation - PN 369D28300-501 Engine Oil Tank and Cooler