

**HUGHES
SERVICE INFORMATION
NOTICE**

NOTICE NO. HN- 89

DATE 7 Nov 1975

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SUBJECT: Modification - Tank Unit Fuel Quantity Rheostat,
PN 369A4245-501 (Kit No. M50047)

MODELS AFFECTED: Model 369H Helicopter Serial No. 0001H thru 0005H
Model 369HE Helicopter Serial No. 0101E and subsequent
Model 369HM Helicopter Serial No. 0001 thru 0004, 0005M
and subsequent
Model 369HS Helicopter Serial No. 0001S thru 0750S; 0761S.

TIME OF COMPLIANCE: At Owners and Operators Discretion.

PREFACE: The information given in this Service Information Notice lists a procedure for modifying the fuel quantity rheostat tank unit by installing a retaining ring on the float arm to limit shaft end play, and thus maintain adequate clearance through full travel of the float arm.

REFERENCE

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 5, 15 June 1975.

PARTS LIST

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty</u>	<u>Mfr</u>
Fastener-Circular Push-On (Truarc Retaining Ring)	5105-12-H	1	Waldes-Kohinoor, Inc. Long Island City, NY
Gasket	369A4518	1	HH
Washer	AN960-4L	1	Commercial

MATERIALS

Paint, polyurethane-white	No. 17875 FED-STD-595	Commercial
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MODIFICATION PROCEDURE

- a. Check that all electrical power is OFF and that helicopter is grounded.

CAUTION

Use all necessary precautions consistent with safe practice when working in or around the fuel cells.

- b. Remove left fuel cell access door. (Refer to Basic HMI.)
- c. Disconnect tank unit harness electrical plug from mating connector at fuel shutoff cable support bracket.
- d. Cut lockwire and remove five bolts and washers from tank unit and lift unit from fuel cell cover plate. Discard existing gasket.
- e. Modify tank unit by installing washer and fastener at end of float shaft, as shown in Figure 1; check for 0.015/0.025 inch clearance between float arm and existing bushing after installation of washer and fastener.
- f. Check float and arm for freedom of movement between stops, and float arm for sufficient off-set so that float will clear edge of cell sump and allow full travel of arm.

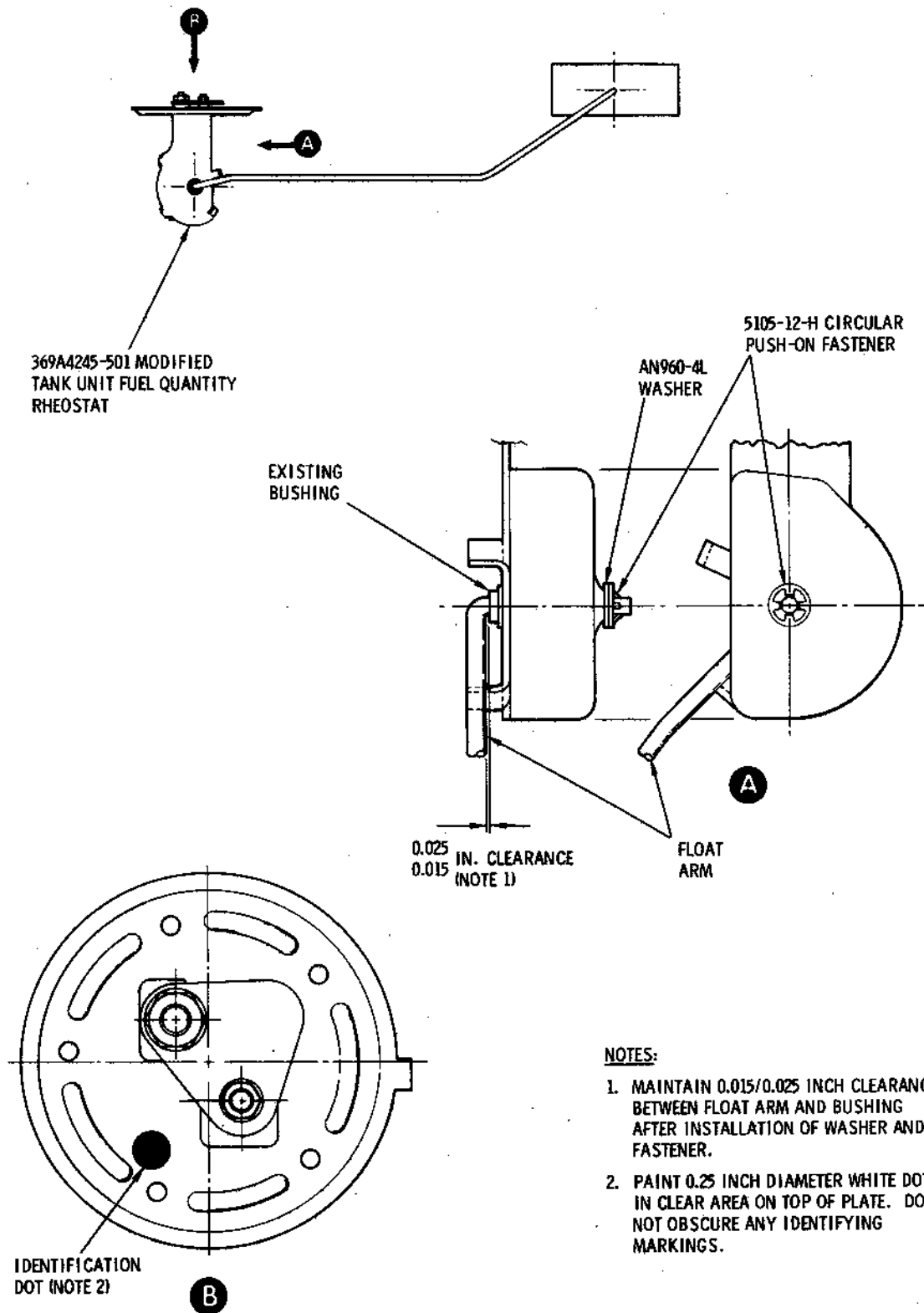


Figure 1. Rework of Tank Unit Fuel Quantity Rheostat,
PN 369A4245-501 Modification Kit No. M50047

g. Paint 0.25 inch diameter white dot in clear area on top side of tank unit plate, as shown. White dot identifies reworked tank unit.

h. Install new 369A4518 gasket, modified tank unit with float inboard, washers and bolts. Torque bolts to 50 to 70 inch-pounds. Lockwire boltheads (three and two) together.

i. Reconnect electrical plug to mating connector.

j. Check fuel quantity indicator reading against a known quantity of fuel in the cells.

k. Fill cells to capacity and check for fuel leakage; none is permissible.

l. Reinstall fuel cell access cover.

m. Record modification and "white dot" identification of tank unit, per Kit No. M50047 and this Notice in Compliance Record of helicopter Log Book.

WEIGHT AND BALANCE DATA

Weight and balance not affected.