



# TECHNICAL BULLETIN

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## REMOVAL OF CAPACITOR – VOLTAGE REGULATOR, \*AAE OR LSI MODEL VR204; INSTALLATION OF VARISTOR – LANDING LIGHT RELAY, PN MS24166D1

### 1. PLANNING INFORMATION:

#### A. Models Affected:

500D Model 369D Helicopter Serial No. 0003D thru 0249D All Subject Voltage Regulators in spares at date of this notice.

#### B. Preface:

The information given in this Service Information Notice lists a procedure for removal of the 8 µfd capacitor (C5) incorporated in the subject Model VR204 voltage regulator to reduce EMI. The C5 is paralleled by a 1 µfd capacitor which accomplishes the same function. Since failure of the C5 capacitor due to voltage spikes has been reported, removal of this capacitor is recommended to ensure the operating reliability of the voltage regulator.

Installation of a varistor on the landing light relay is also recommended to help prevent failure of other components of the voltage regulator, and other installed avionics.

\*(AAE) Aircraft Appliance and Equipment, Div of Aerospace Div; (LSI) Lear Siegler, Inc.

#### C. Time of Compliance:

At owners and operators discretion.

#### D. Weight and Balance:

Weight and balance not affected

#### E. Reference Publications:

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

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Varistor	V47ZA7	1	General Electric
Terminal	MS25036-102	2	Commercial

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## **2. VOLTAGE REGULATOR – REMOVAL OF C5 CAPACITOR**

**NOTE:** Applicable to voltage regulator in spares or installed on 500D Model Helicopter Serial No. 0003D thru 0249D.

- (1). Check that all electrical power is OFF.
- (2). Gain access to voltage regulator and disconnect electrical connector. (Refer to HMI - Vol I).
- (3). Remove hardware securing regulator to support and lift out regulator.
- (4). Remove cover from regulator: remove four screws, spacers and nuts securing upper circuit board of regulator. (See Figure 1. )
- (5). Remove capacitor C5 as shown; clip wire leads as close as possible to circuit board.
- (6). f. Reinstall upper circuit board and cover.
- (7). Using ink stamp, add "MOD 5C" on vendor nameplate to indicate modified voltage regulator.
- (8). Reinstall voltage regulator and attach electrical connector.
- (9). Perform an operational check of the voltage regulator and make adjustments as necessary. (Refer to HMI - Vol I).

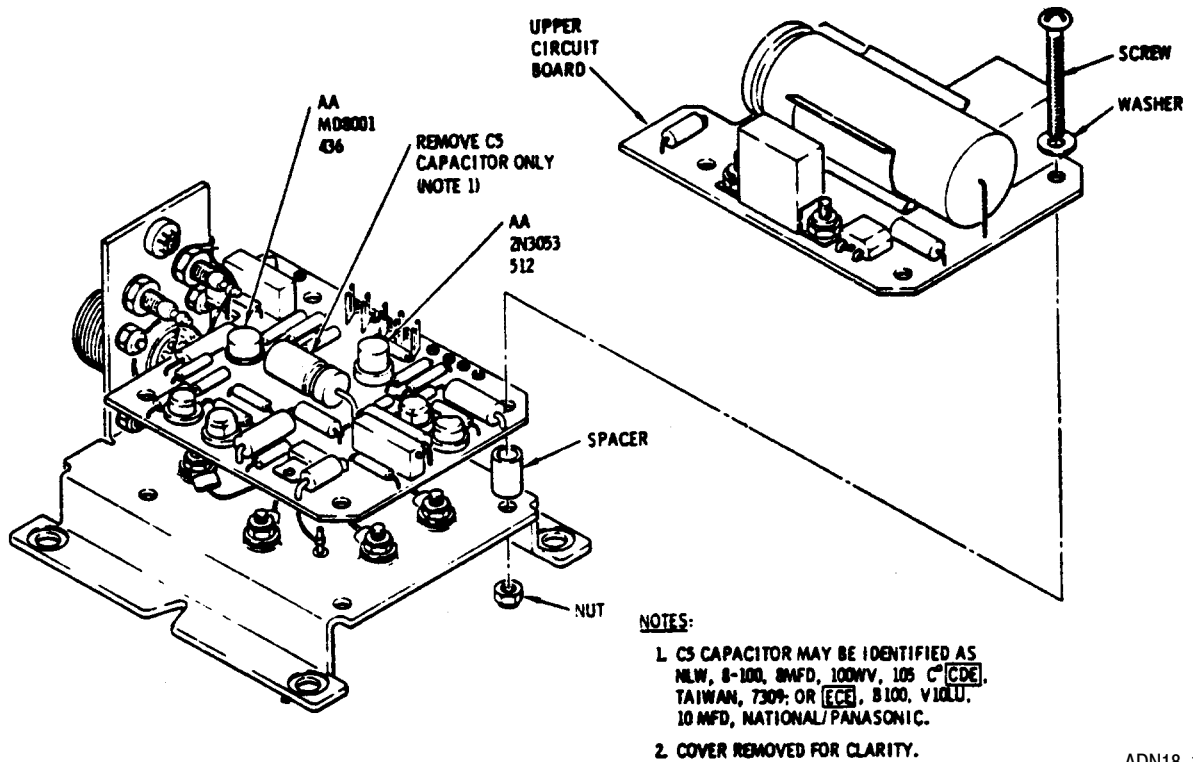
## **3. LANDING LIGHT RELAY – INSTALLATION OF VARISTOR**

**NOTE:** Applicable to 500D Model 369D Helicopter Serial No. 0003D thru 0149D only.

- (1). Check that all electrical power is OFF.
- (2). Disconnect wiring leads from X1 and X2 on relay (See Figure 2). Disconnect relay panel 369H2502-66 located on lower support of instrument panel assembly. (Refer to HMI - Vol I).
- (3). Crimp terminal to each lead of varistor (trim varistor leads as close as practical to body of resistor).
- (4). Install varistor leads to relay terminals as shown in Figure 2; connect wire leads at XI and X2.
- (5). Reinstall relay panel.

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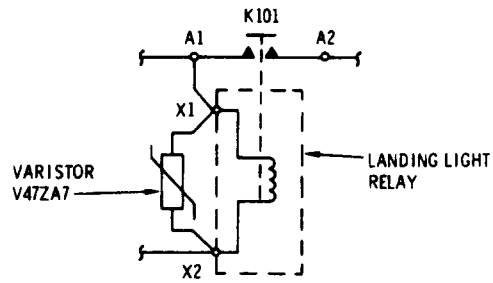
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**Figure 1. Installation of Varistor - Landing Light Relay**

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**Figure 2. Installation of Varistor - Landing Light Relay**