



SERVICE BULLETIN

DATE: 30 JUNE 1980

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POLARITY CHECK OF DIODE ASSEMBLIES

1. PLANNING INFORMATION

A. MODELS AFFECTED:

All Model 500 Series Helicopters equipped with PN 369H90118 Series Auto Reignition Kit and/or PN 369H90022 Series Anti-Ice Fuel Filter Kit delivered and installed on helicopter during 1979.

All PN 369H90118 Series Auto Reignition Kits and PN 369H90022 Series Anti-Ice Fuel Filter Kits delivered and in Spares Inventory during 1979.

B. PREFACE:

The information given in this Service Information Notice lists a procedure for a one-time check of the subject 1N3210 diode assemblies incorporated in PN 369H90118 Series Auto Reignition Kits and PN 369H90022 Series Anti-Ice Fuel Filter Kits delivered and installed on Model 500 Series helicopters or in Spares Inventory during 1979.

Field reports indicate that a small number of the above affected kits delivered during 1979 inadvertently incorporated diodes with reversed polarity (1N3210R). The two above kit installations are the only places the reversed polarity diodes would be installed on Model 500 helicopters. Installation of diodes with improper polarity can result in inability to start the engine or in malfunction of the automatic reignition system.

C. TIME OF COMPLIANCE:

Shall be accomplished within next 50 hours of helicopter operation.

Shall be accomplished prior to installation of above affected Spares kits on helicopter.

D. FAA APPROVAL:

FAA/DER APPROVED 30 JUNE 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 1976. 500 Series HMI, Appendix A, Issued 1 October 1972; Revision No. 4, 15 December 1974. Hughes Service Information Notice No HN-129 dated 8 September 1978.

G. PARTS LIST:

PARTS LIST			
Nomenclature	Part No.	Qty.	Source
*Diode Assembly	1N3210	A/R	Commercial

*Provided without cost, if required, by HH Service Center or Distributor. HH Service Centers and Distributors order from HH Warranty and Repair Department.

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H. TOOLS AND EQUIPMENT:

TOOLS AND EQUIPMENT	
Nomenclature	Source
Ohmmeter (with forward polarity)	

NOTE: Check ohmmeter as follows to determine forward polarity:

1. Set ohmmeter to ohms position.
2. Connect leads to a second voltmeter to determine which lead of the ohmmeter is positive.
3. Use meter as noted in body of notice.

2. PROCEDURE

A. PART 1 - PN 369H90118 SERIES AUTO REIGNITION KITS INSTALLED ON HELICOPTER OR IN SPARES INVENTORY

- a. As applicable, open RH engine access door.
- b. Locate diode assemblies (CR1 and CR2) installed on helicopter right oleo support fitting. (See Figure 1.)
- c. Check Part Number on diode assemblies.

NOTE:

1. If PN of diodes is 1N3210, perform steps f and g and only.
2. If PN of diodes is 1N3210R, replace diodes with new PN 1N3210 diodes; perform steps e, f and g below.
3. If PN of diodes cannot be determined, perform steps d, e, f and g below.
- d. Test diodes, using ohmmeter (with forward polarity) at electrical connector pins. Check for low forward resistance with positive lead applied to terminal end and negative lead applied to stud end. Reverse leads and check for very high back resistance.

NOTE: If polarity of diode is reversed, replace existing diodes with new 1N3210 diodes.

- e. Perform function check of auto reignition system.
- f. Close engine access door.
- g. Record compliance with this Part I of this Service Notice in Compliance Record of helicopter Log Book; or tail Spares isolator diode assembly and record compliance with this Notice at installation of assembly on helicopter.

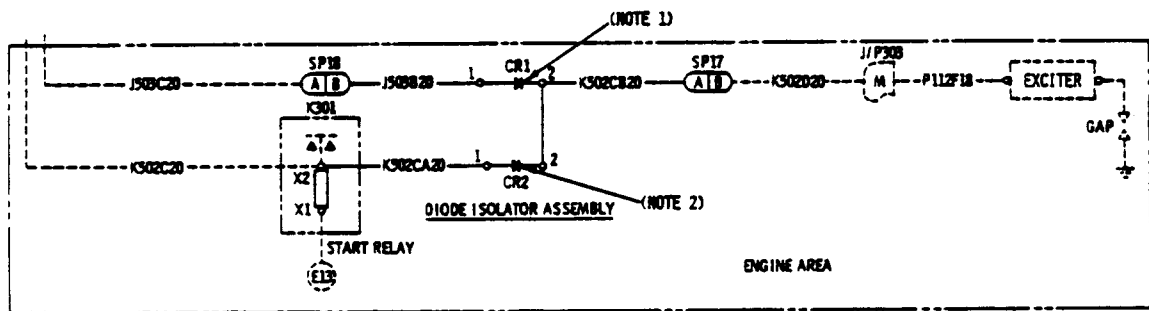
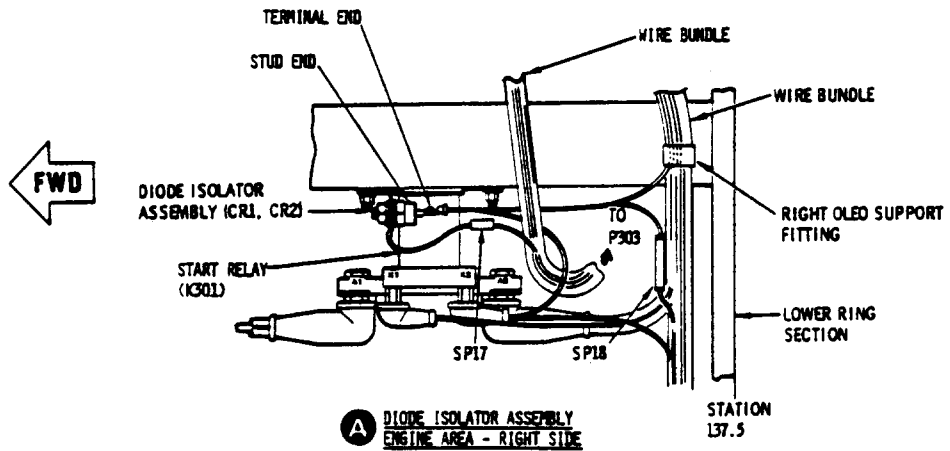
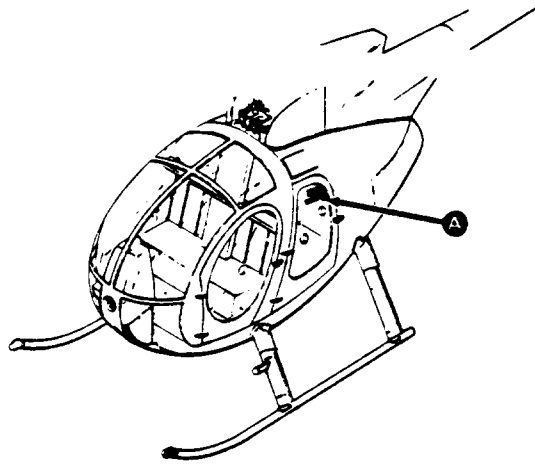
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WIRING DIAGRAM

NOTES:

1. IF CR1 REVERSED, AUTOMATIC REIGNITION SYSTEM INOPERATIVE.
2. IF CR2 REVERSED, ENGINE START NOT POSSIBLE.

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Figure 1. Diode Check - Engine Automatic Reignition Kit Installation

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B. PART II - PN 369H90022 SERIES ANTI-ICE FUEL FILTER KITS INSTALLED ON HELICOPTER OR IN SPARES INVENTORY

- a. Remove cover from PN 369H4735 anti-ice fuel filter 'panel assembly. (See Figure 2.)
- b. Check Part Number of diode CR26 in panel assembly.

NOTE: NOTE

- 1. If PN of diode is 1N3210, perform steps e and f only.
- 2. If PN of diode is 1N3210R, replace diode with new PN 1N3210 diode; perform steps d, e and f below.
- 3. If PN of diode cannot be determined, perform steps c, d, e and f below.

c. Test diode, using ohmmeter (with forward polarity) at electrical connector pins. Check for low forward resistance with positive lead applied to terminal end and negative lead applied to stud end. Reverse leads and check for very high back resistance.

NOTE: If polarity of diode is reversed, replace existing diodes with new 1N1210 diode.

- d. Perform function Check of anti-ice fuel filter system.
- e. Reinstall panel cover.
- f. Record compliance with Part II of this Service Notice in Compliance Record of helicopter Log Book; or tag panel assembly and record compliance with this Notice at installation of panel assembly on helicopter.

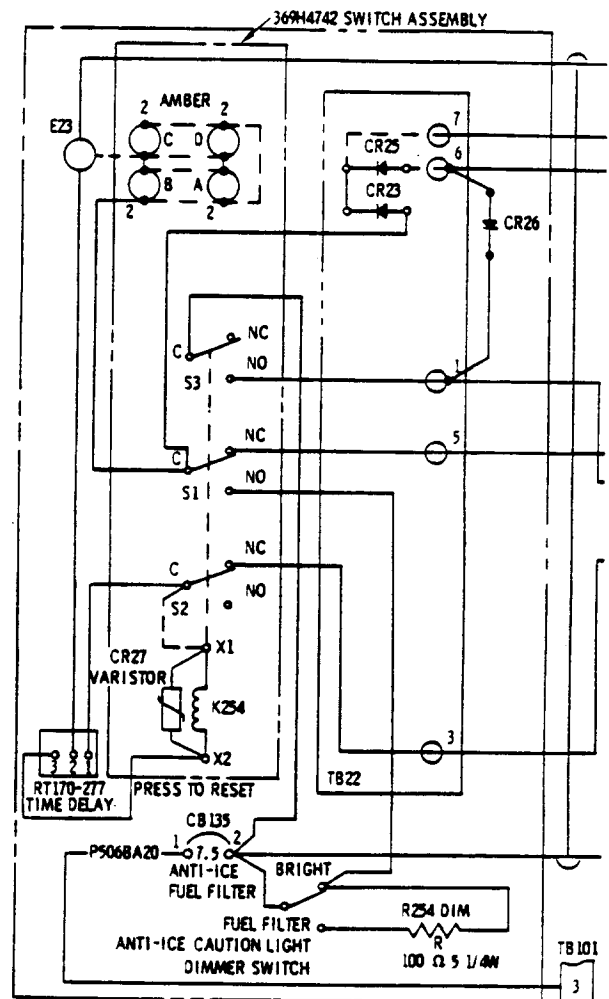
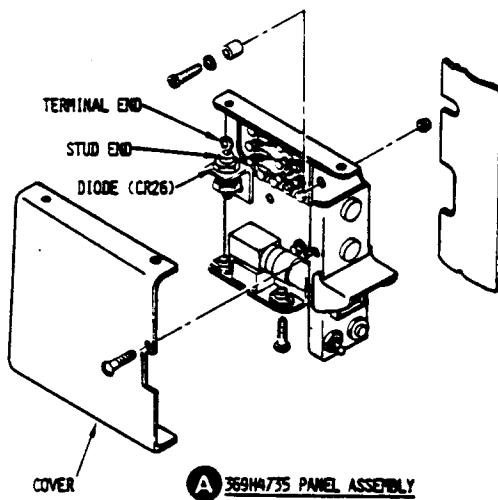
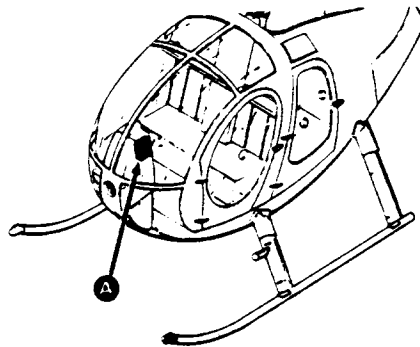
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WIRING DIAGRAM

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Figure 2. Diode Check - Anti-Ice Fuel Filter Kit Installation

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