

**LIST OF FIELD MODIFICATIONS
ENGINE DRIVEN D-C GENERATOR
TYPES 30E16-1-A, 30E16-1-C AND 30E16-11-C
ECLIPSE PIONEER**

(This EO replaces EO 40-10BL-6A dated 16 Mar 60)

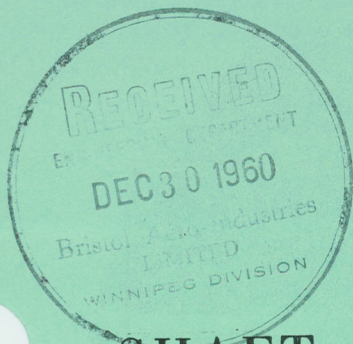
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LATEST DATE	EO NO	TITLE
*23 Jan 61	40-10BL-6A/1	Installation of Shaft Assembly RCAF Drawing 354 16-1

SUPERSEDED
BY 18 Oct 71

* Asterisks appearing opposite entries denote changes since last issue

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF



MODIFICATION INSTALLATION OF SHAFT ASSEMBLY RCAF DRAWING 35416-1

(This EO replaces EO 40-10BL-6A/1 dated 16 Mar 60)

EQUIPMENT AFFECTED:	Eclipse Generators 30E16-1A and 1C
BY WHOM WORK WILL BE PERFORMED:	Units, RDs and Contractors
WHEN WORK WILL BE PERFORMED:	Type 30E16-1A: On shaft failure Type 30E16-1C: Prior to installation on Aircraft.
RCAF FORM ENTRIES:	NA
MODIFICATION OF SPARES IN STOCK:	NA

PURPOSE

1 To reduce the number of generator failures due to drive shaft failures.

MODIFICATION DATA

2 Manufacture locally from available materials the spring length gauge as detailed in Figure 1 and retain for further installations. Refer to EO 40-10BL-4 Parts List for parts identification. The following is the sequence of operations:-

- (a) Remove and retain the 5 screws and washers holding airspout 867488.
- (b) Remove and retain the 4 screws and washers holding bearing cover 886699.
- (c) Carefully remove and retain:-
 - (1) Nut AN364-428C.
 - (2) Washer AN960-416.
 - (3) Spring 883154.
- (d) Remove failed shaft 883151 with lining 818494-1 from type 30E16-1A generator or shaft 1107477 with lining 1107478 from type 30E16-1C
- (e) Remove and retain front plate 862179.
- (f) Assemble serviceable lining 1107478 on the inside face of drive shaft assembly 35416-1 and place the front plate 862179 (removed in para. 2(e)) on drive shaft. Ensure that both plates are snug against the lining.
- (g) Install shaft 35416-1, lining 1107478 and plate 862179 in armature assembly.
- (h) Temporarily fit gauge (manufactured as detailed in Figure 1) in armature cavity and install washer AN960-416 and nut AN364-428C (removed in para. 2(c)).

SUPERSEDED

BY 23 Jun 61

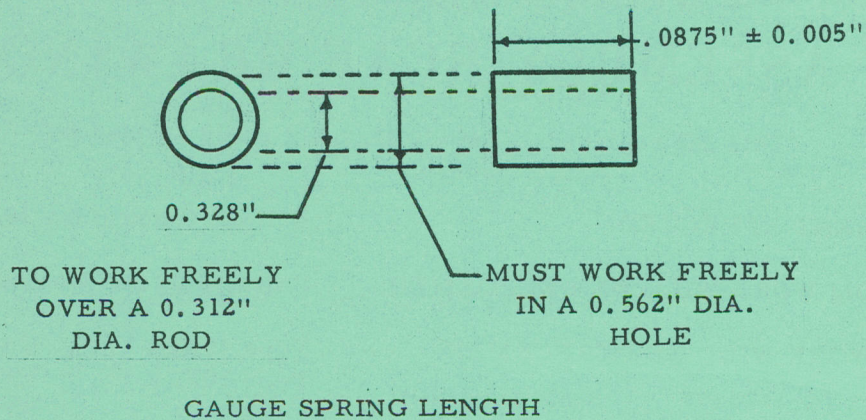


Figure 1 (Issue 1)

- (j) Snug nut up and carefully measure and note the protruding threaded portion of shaft 35416-1.
- (k) Remove gauge and replace with spring 883154, re-install washer AN960-416 and nut AN364-428C.
- (m) Tighten nut down on spring until the protruding threaded portion is of the same measurement as noted in para. 2(j)
- (n) Re-install bearing cover 886699 and Air Spout 867488 in reverse order to that removed (paras. 2(a) and 2(b)), lockwiring screws.
- (p) Re-identify the modified generators as follows:-
- (1) 30E16-1A change to 30E16-1A/M.
 - (2) 30E16-1C change to 30E16-1A/M.

PARTS REQUIRED

3 The following parts are required:-

RCAF REF.	PART	DESCRIPTION	QUANTITY
5U/Code 8/6115-21-800-9138	35416-1	Shaft assembly	1
5U/Code 8/6115-00-541-8249	1107478	Lining	1

PARTS RENDERED SURPLUS OR OBSOLETE

4 The following parts are rendered surplus and are to be disposed of in accordance with EO 00-5-6:-

RCAF REF.	PART	DESCRIPTION	QUANTITY PER AIRCRAFT	DISPOSAL CLASSIFICATION
5U/Code 5	883151	Shaft assembly	1	See NOTE
5U/Code 5	818494-1	Lining	1	See NOTE

(The above are applicable to 30E16-1A)

5U/Code 5	1107477	Shaft assembly	1	D
5U/Code 8/6115- 00-541-8249	1107478	Lining	1	C

(The above are applicable to 30E16-1C)

NOTE

Parts 883151 and 818494-1 removed as a result of this modification are of no further use to the RCAF. Serviceable items in stock are required.

WEIGHT, LOADING AND BALANCE DATA
5 NA.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

Prepared By:-
AMC/SACO/ACA

