ROYAL CANADIAN AIR FORCE



LIST OF FIELD MODIFICATIONS

GYROSCOPIC FLIGHT INDICATORS

(This EO replaces EO 20-20-6A dated 30 Nov 53)

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

LIST OF RCAF REVISIONS

DATE PAGE NO

DATE

PAGE NO

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ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

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LATEST DATE

EO NUMBER

TITLE

* 20-20-6A/1 * /2 13 Dec 50 /3

(Rescinded) (Replaced by EO 05-1-6A/9) Removal of Air Filter Body Cover

*Asterisk appearing opposite entry denotes change since last issue

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(Rescinded)
(Replaced by EO 05-1-6A/9)
Removal of Air Filter Body Cover

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13 Dec 50

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MODIFICATION

REMOVAL OF AIR FILTER BODY COVER

(This E0 replaces AFTEO E3/10/10 dated 31 Jan 44 listed on EO 20-20-6/1)

EQUIPMENT AFFECTED:

Gyro Flight Instruments with central air filter connection at rear centre of case

BY WHOM WORK WILL BE PERFORMED: Operating Units

WHEN WORK WILL BE PERFORMED:

Upon installation when required

RCAF FORM ENTRIES:

L14

MODIFICATION OF SPARES IN STOCK

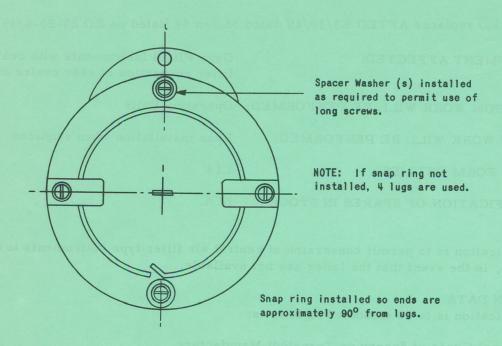
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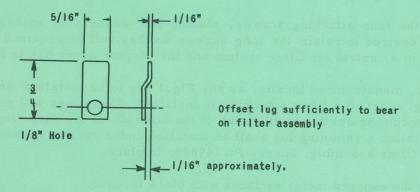
PURPOSE

1 This modification is to permit conversion of central air filter type instruments to individual air filter types, in the event that the latter are not available.

MODIFICATION DATA

- 2 This modification is to be embodied as follows:
 - (a) Directional Gyros of Sperry or Ternstedt Manufacture
 - (1) Remove the four screws to remove the air filter body cover, Sperry Pt. 187663, Ref. 506JA/1385 and the gasket, Sperry Pt. 187664, Ref. 506JA/1420.
 - (2) Replace the four attaching screws, placing flat washers or spacers behind the lock-washers. It is desired to retain the long screws as they will be required if the instruments are later used in a central air filter system and the adaptor cover has to be replaced.
 - (3) Two lugs, manufactured locally, as per Fig. 1 are to be installed under two attaching screws 180 deg. apart, if a filter snap ring is installed. These lugs will prevent the air filter snap ring from coming out due to vibration of the aircraft. If the snap ring has been omitted from the installation a retaining lug shall be installed under each of the four attaching screws to hold the air filter assembly, Sperry Pt. 149828, in place.
 - (4) Touch up the exposed metal surfaces with black lacquer.
 - (b) Artificial Horizons of Sperry or Ternstedt Manufacture
 - (1) Take out the four attaching screws and remove the air filter body cover, Sperry Pt. 187663, Ref. 506JA/1385 and the gasket, Sperry Pt. 187664, Ref. 506JA/1420.
 - (2) Reassemble as in Para. 2 (a) (2) to (4).
 - (c) Jack and Heintz Artificial Horizons and Directional Gyros
 - (1) Remove the four attaching screws and lift off the cover, rear case, Jack and Heintz Pt. JH 10-66, Ref. 506JC/359.





MATERIAL: Aluminum or Brass

Figure 1

- (2) Two lugs, manufactured locally, as per Fig. 1, are to be installed under two attaching screws 180 deg. apart, if a filter snap ring is installed. These lugs will prevent the air filter snap ring from being shaken out by vibration of the aircraft. If the snap ring has been omitted from the installation, a retaining lug shall be installed under each of the four attaching screws to hold the air filter assembly, Jack and Heintz Pt. JH 10-79 in place.
- (3) The four flat head attaching screws are to be replaced with Ref. 28/15222, AN 501-8-5, Screws, Fil. Hd. It will be noted that these screws are necessary to seal the holes in the case as well as to attach the snap ring retaining lugs.
- (4) Touch up the exposed metal surfaces with black lacquer.

PARTS REQUIRED

3 The following parts are required and are to be demanded from Supply Depot stocks:

RCAF REF	PART	DESCRIPTION	QTY PER AIRCRAFT
28C/15222 30B/21	AN 501-8-5	Screw, Fil. Hd.	4 per J and H inst.
or suitable substitute	2 SH	.064 in. Sheet, Alum. Alloy As req'd	

PARTS RENDERED SURPLUS OR OBSOLETE

4 The following parts which have been removed from instruments are to be returned to the appropriate Supply Depot to be held available in stock against the future use of these instruments in central air filter systems or instrument overhaul contractors' requirements.

RCAF REF	PART	DESCRIPTION	QTY PER AIRCRAFT
506JA/1385 506JA/1420 506JC/359 506JC/360	187663 187664 JH 10-66 JH 3-27	Air Filter Body Cover Gasket Cover, Rear Case Screw, Flat Head, 8-36 x 1/2 in. SS	l) Sperry or Ternstedt l) Jack and Heintz

WEIGHT, LOADING, AND BALANCE DATA N.A.

ADDITIONAL DATA

6 Some of the newest Directional Gyros manufactured by Ternstedt and Sperry have a 1/4 in. I.P.T. outlet at the level of the bottom of the instrument instead of at the back center of the instrument. The housing of this new filter arrangement has an irregular hexagonal outline. The cover is NOT to be removed from these filters as they are designed to make use of the full filter area in their present form.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

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ROAF REF PART DESCRIPTION

28C/15222 AN 501-8-5 Screw, Fil. Hd. 4 per J and Hinst.

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Prepared Eye AMC/SAESO/ES