

*Eng.*

**RESCINDED** EO 20-25-5A

AUTH *see list June 72*

**ROYAL CANADIAN AIR FORCE**



# LIST OF SPECIAL INFORMATION

## AIRCRAFT COMPASSES

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

30 SEP 53

# LIST OF RCAF REVISIONS

**DATE**

**PAGE NO**

**DATE**

**PAGE NO**

## NOTE

All new issues, re-issues, rescissions, etc., affecting this list of Special Information Leaflets will appear in the monthly Supplements to the Engineering Order Index EO 00-1-1.

Holders of this Engineering Order are to amend it to reflect changes as they appear in the Supplements in order that an up-to-date list is available for checking purposes.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

30 SEP 53

## TABLE OF CONTENTS

<b>LATEST DATE</b>	<b>EO NUMBER</b>	<b>TITLE</b>
* 6 Jul 53	20-25-5A/1	Identification of Type B-21 Standby Compasses

\* Asterisks appearing opposite entries denote changes since last issue.



RESCINDED

ROYAL CANADIAN AIR FORCE

EO 20-25-5A/1  
6 Jul 53

AUTH

*Acc. by June 72*

SPECIAL INFORMATION

## IDENTIFICATION OF TYPE B-21 STANDBY COMPASSES

COPY

### GENERAL

1 Type B-21 Standby compasses currently in use in the RCAF utilize one of two systems of temperature and altitude compensation, i. e. expansion diaphragm or air chamber. Both types are physically and functionally interchangeable.

2 The expansion diaphragm type, as the name implies, is fitted with a diaphragm to accommodate the expansion or contraction of the damping fluid due to changes of temperature or altitude. This type compass shall not have a bubble in the fluid at normal room temperature 21.1°C (70°F).

3 In air chamber type compasses a compartment of the bowl, known as the "air chamber", is not normally filled with damping fluid. This compartment absorbs expansion of the fluid due to temperature increases and it follows that the bubble thus formed will become larger as temperature decreases. At normal room temperature and with the compass in the vertical position, face-up, this bubble will cover approximately 3/4 of the glass but shall not be evident up to an 18 degree angle of dive.

### IDENTIFICATION

4 All B-21 air chamber type compasses are to be identified on overhaul, manufacture or installation in aircraft at contractors with a light green dot one quarter inch in diameter adjacent to the name plate.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

Prepared By  
AMC/SACO/ACA

