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

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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.


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IDENTIFICATION OF TYPE B-21 STANDBY COMPASSES

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
IDENTIFICATION OF TYPE B-31 STANDBY COMPASS

REPORT

The purpose of this report is to provide the necessary information to identify the B-31 type standby compass and its accessories. The report includes specifications and operational procedures to ensure efficient use and maintenance of the compass.

SPECIFICATIONS

The B-31 type standby compass is designed for use in aircraft. It features a digital display for easy reading and a robust construction to withstand harsh conditions. The compass includes a built-in magnetic sensor for accurate heading determination.

OPERATIONAL PROCEDURES

1. Prior to operation, ensure the compass is calibrated and aligned correctly.
2. Use the compass in conjunction with other navigation aids for accurate flight planning.
3. Regularly check the compass for accuracy and perform any necessary maintenance.

IDENTIFICATION

The B-31 type standby compass can be identified by its model number and the presence of the digital display unit. It is typically mounted in the cockpit area for easy access by the pilot.

REVISED BY

Signature

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