

SUPPLEMENT O2
TO THE AIRPLANE FLIGHT MANUAL DA 40

OPERATION OF THE
DA 40
WITH WINTER KIT

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This Supplement has been approved for the Joint Aviation Authorities (JAA) by the Austrian Civil Aviation Authority Austro Control (ACG) as Primary Certification Authority (PCA) in accordance with the JAA Certification Procedures of the Joint Aviation Authorities (JAA JC/VP).

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0.1 RECORD OF REVISIONS

Rev. No.	Reason	Chapter	Page(s)	Date of Revision	Approval	Date of Approval	Date Inserted	Signature

0.2 LIST OF EFFECTIVE PAGES

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1. GENERAL

1.1 INTRODUCTION

This Supplement supplies the information necessary for the efficient operation of the airplane when the winter kit is installed. The information contained within this Supplement is to be used in conjunction with the complete AFM.

This Supplement to the "Airplane Flight Manual DA 40" is a permanent part of the AFM and must remain in the AFM at all times when the winter kit is installed.

The implementation of the design change advisory OÄM 40-078 is prerequisite for the use of the DA 40 with winter kit.

2. OPERATING LIMITATIONS

2.15 LIMITATION PLACARD

The following placard is attached to the winter kit:

**Remove at Outside
Temperatures above
15 °C / 59 °F**

2.16 OTHER LIMITATIONS

The winter kit should only be used at outside temperatures on ground below 15 °C / 59 °F, since engine temperatures below the limit engine temperatures cannot be guaranteed otherwise.

3. EMERGENCY PROCEDURES

No change.

4A. NORMAL OPERATING PROCEDURES

Proceed according to the normal operating procedures given in the main part of the Airplane Flight Manual.

In addition:

4A.3 CHECKLISTS FOR NORMAL OPERATING PROCEDURES

4A.3.1 PRE-FLIGHT INSPECTION

II. Walk-around check, visual inspection

* *Front fuselage:*

- Verify that the outside air temperature permits the use of the winter kit.
- Check winter kit for improper mounting or obvious damage.

4B. ABNORMAL OPERATING PROCEDURES

No change.

5. PERFORMANCE

No change.

6. MASS AND BALANCE

6.1 INTRODUCTION

The mass of the winter kit is negligible. The mass and balance data of the airplane therefore remain unchanged.

6.5 EQUIPMENT LIST

Additional equipment required for the operation with winter kit:

- * 1 winter kit for the oil cooler air duct
- * 1 camloc for attachment

7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS

7.9 POWER PLANT

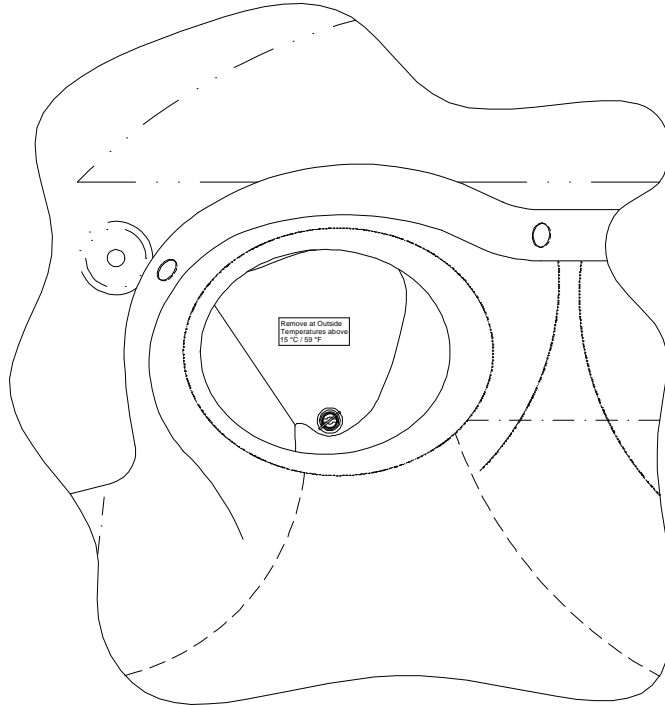
7.9.1 ENGINE, GENERAL

The winter kit consists of a protective yellow metal plate (winter kit) which restricts the flow of cooling air and is attached in the air duct by a camloc.

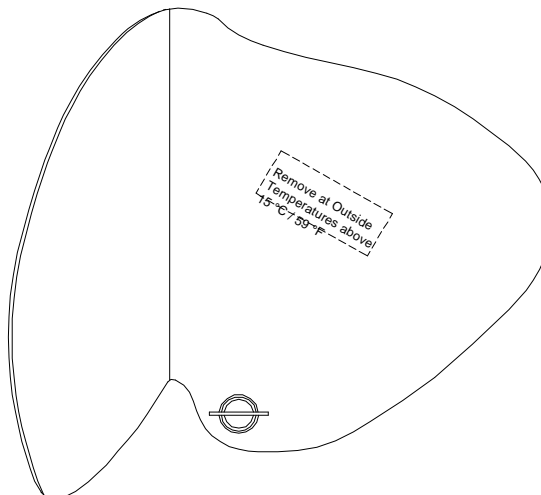
For installation, twist winter kit into the RH cowling inlet to the left and close camloc. For removal, reverse the sequence.

By using the winter kit at low outside air temperatures, the oil temperature increases by up to 20 °C (36 °F).

Due to the raised oil temperature, the water condenses out of the oil more easily.



Cowling Installation



Winter Kit

8. AIRPLANE HANDLING, CARE AND MAINTENANCE

8.2 WINTER KIT INSPECTION INTERVALS

At every 100 hour inspection, the winter kit should be checked for improper mounting and obvious damage.