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**SUPPLEMENT NO. 5 TO THE  
AIRPLANE FLIGHT MANUAL  
FOR THE AIRPLANE  
DV 20**

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**OPERATION WITH A WINTERIZATION KIT**

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**15. Juli 1997**

This Airplane must be operated in compliance with the information and limitations contained herein.

Prior to operating the Airplane, the Pilot must take notice of all the information contained in this Airplane Flight Manual.

## 0.1 RECORD OF REVISIONS

Current Revision Number	Section	Pages	Date of Revision	Remarks of Approval	Date of ACG Approval	Date of Addition	Initials / Signature

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# SECTION 1

## GENERAL

### 1.1 INTRODUCTION

Pages 9-5-1 through 9-5-13 constitute Supplement No. 5 to the Airplane Flight Manual for the Airplane DV 20 and are valid only for the operation of the Airplane with the winterization kit.

### 1.5 DESCRIPTIVE DATA

The winterization kit consists of a protective yellow metal plate (winterization shield) which reduces the cross sectional area of the air intake to the oil cooler and is attached using a camloc.

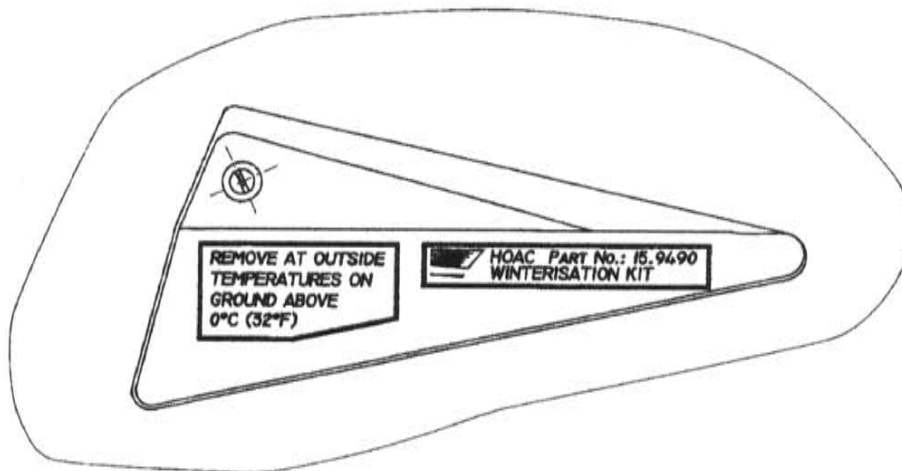
The winterization shield can easily be installed or removed.

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### 1.6 DRAWING



Detail X:



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## SECTION 2

# LIMITATIONS

### 2.14 OTHER LIMITATIONS

The winterization shield should only be used at outside temperatures on ground below 0 °C, since an excessive increase in engine temperatures may otherwise result.

### 2.15 LIMITATION PLACARDS

The following placard is attached to the winterization shield:

REMOVE AT OUTSIDE TEMPERATURES ON GROUND ABOVE 0 °C (32 °F)
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## SECTION 3

# EMERGENCY PROCEDURES

### 3.1 INTRODUCTION

The emergency procedures remain unchanged.

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## SECTION 4

# NORMAL PROCEDURES

### 4.4 PREFLIGHT INSPECTION

The following items are added to the preflight inspection:

- Verify that the outside air temperature permits the use of the winterization shield.
- Check winterization shield for improper mounting or looseness.

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## SECTION 5

# PERFORMANCE

### 5.1 INTRODUCTION

The performance data remains unchanged.

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## SECTION 6

# MASS (WEIGHT) AND BALANCE / EQUIPMENT LIST

### 6.1 INTRODUCTION

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

### 6.9 EQUIPMENT LIST

#### Additional equipment required for operation with winterization kit

- 1 winterization shield for the air intake of the oil cooler
- 1 camloc for attachment

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## SECTION 7

# AIRPLANE AND SYSTEMS DESCRIPTION

### 7.9 POWER PLANT

By using the winterization shield 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.

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## SECTION 8

# AIRPLANE HANDLING, CARE AND MAINTENANCE

### 8.2 AIRPLANE INSPECTION PERIODS

The winterization shield and its mounting device are checked during scheduled inspections as part of the normal maintenance routine.

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