

GROUND TEST INSTRUCTIONS

SECTION 5

DE-ICING SYSTEMS

LIST OF CONTENTS

PART 1 – WINDSCREEN DE-ICING
(deleted by Mod.581)

PART 2 – FUEL FILTER DE-ICING

PART 3 – ENGINE ANTI-ICING

SECTION 5

DE-ICING SYSTEMS

PART 1

WINDSCREEN DE-ICING
(deleted by Mod.581)

PART 2

FUEL FILTER DE-ICING

The following tests must be made on the fuel filter de-icing system.

1. TEST EQUIPMENT

The following special equipment is necessary to enable all subsequent test requirements to be satisfied:—

Test rig (S.E.965)
Electrical Rig (S.E.969)
Ground Test Rig (C.209813)

2. PRESSURE TEST (S.E.965)

Pressure test the system pipes and components by the following operations which must be made in the sequence given:—

- (i) Fill alcohol tank (one gallon — 34B/720).
- (ii) Blank off fuel delivery pipe.
- (iii) Pump 'ON'.
- (iv) With pump running, apply air pressure (10 p.s.i.) to system (through vent pipe).
- (v) Ensure no leaks in system.
- (vi) Air pressure 'OFF'.
- (vii) Pump 'OFF'.
- (viii) Remove blank from fuel delivery pipe.

3. FUNCTIONING TEST

The fuel filter de-icing system is to be tested for correct functioning by use of the system TEST switch (located in the engine bay).

Note . . .

This TEST switch must NOT be operated unless the Ground Test Rig (C.209813) and relief valve are connected to the 'King' drain valve of the system.

Test fuel filter de-icing system for functioning by the following operations which must be made in the sequence given:—

- (i) Check alcohol tank 'FULL' (34B/720); fuel system 'PRIMED'.

3. **FUNCTIONING TEST (Continued)**
- (ii) L.P. cock 'OFF'; H.P. cock 'OFF'.
 - (iii) Remove blanking cap from 'King' drain valve on fuel delivery pipe (engine bay).
 - (iv) Fit ground test rig (C209813) in lieu (fitting of rig pipe opens valve).
 - (v) Place relief valve of ground test rig into suitable container.
 - (vi) Test switch 'ON'.
 - (vii) Check gauge pressure (immediate rise to 35 p.s.i. min).
 - (viii) Test switch 'OFF' immediately (to avoid spillage from relief valve).
 - (ix) Disconnect ground test rig; replace blanking cap on 'King' drain valve.
 - (x) Top up alcohol tank.

SECTION 5

DE-ICING SYSTEMS

PART 3

ENGINE ANTI-ICING

The engine anti-icing system must be tested to ensure that controls and indicators are operating correctly and in agreement.

1. FUNCTIONING TESTS

Test engine anti-icing system for functioning by the following operations which must be made in the sequence given:—

- (i) Control switch 'OPEN'.
- (ii) Check gate valve moves to fully open position (indicated by markings adjacent to operating lever).
- (iii) Check time taken for gate valve to fully open (10 secs. approx.).
- (iv) Check magnetic indicator shows 'OPEN'.
- (v) Control switch 'SHUT'.
- (vi) Check gate valve moves to fully closed position.
- (vii) Check magnetic indicator shows 'SHUT'.

This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

