GROUND TEST INSTRUCTIONS

SECTION 18

RADAR/RADIO

LIST OF CONTENTS

SECTION 18

RADAR/RADIO

PART 1

GENERAL

The following tests must be made on the radar/wireless installation.

1. SUSPECTED FAULTS

Should a fault be suspected in either radar/wireless installation, check supply circuit before any other tests are made. Ensure connectors are correctly assembled and test the voltage both 'ON' and 'OFF' load.

2. V.H.F. SETS

Sets are tested by Radio Section and installed on airfield.

3. RADIO WIRING

Radar/Wireless installation wiring must be tested with a 500 volt megger.

An 'infinity' reading must be obtained.

SECTION 18

RADAR/RADIO

PART 2

RADAR COOLING SYSTEM

I.D. INSTRUCTION H.10/1 (Issue 2)

1. SYSTEM TESTS

The two radar units are service supply, service fit, so only the pipe joints and the relief valve can be tested.

(i) Connect the adaptor to ID.SK.265 over the air outlet vent in the cabin.

(ii) Connect a 0 – 2 p.s.i. pressure gauge to the adaptor.

(iii) Blank off the free ends of the two rubber hoses, (one of the blanks should have a connection on it for a 0 – 2 p.s.i. pressure gauge).

(iv) Connect the supply hose to the Godfrey ground pressurising unit and supply 8 lb. of air/min.

Note . . .
The ground pressurising trolley should be run outside the factory.

(v) Check that all pipe connections are properly made and that no air can be felt blowing from the joints. Small leakages only detectable by the use of soap and water may be ignored.

(vi) The relief valve in the shroud to the cabin air discharge valve should be blowing off, and the gauge connection to the blank registering ½ – ¾ p.s.i.

(vii) Remove the adaptor from the cabin air outlet vent and the blanks from the pipes.

(viii) Couple up the radar cooling connector and hose to the Godfrey ground pressurising unit and to the coupling on the port side of the aircraft.

(ix) Check that the non-return valve is effective by testing for air entering the cabin by way of the outlet vent.

8 lb. of air/min., should be supplied from the trolley but none should enter the cabin.

SECTION 18

RADAR/RADIO

PART 3

NON–RETURN VALVE B.205318

I.D. INSTRUCTION H.10/3 (Issue 1)

1. DESCRIPTION

(i) Connect the inlet of the valve to the low pressure tank of test rig SE.525 and the outlet to the high pressure tank, using adaptors SE.919 and 920.

(ii) Apply a pressure of 2 p.s.i. to the outlet side.

(iii) Starting with the low pressure tank at atmospheric pressure (i.e. supply valve closed and bleed valve open), close the bleed valve.

(iv) Leakage across the valve seat should now be checked by observing the rise of pressure on the inlet side. This should not exceed 1 p.s.i. in one minute after closing the bleed.

(v) Remove the adaptor from the outlet of the N.R.V.

(vi) Build up the pressure in the low pressure tank with the cock to the N.R.V. closed and adjust the bleed to atmosphere to maintain 1 p.s.i. in the tank.

(vii) Slightly open the outlet cock on the tank to permit flow into the N.R.V. The gauge on the supply line should indicate an opening pressure of $^{1}/_{8}$ p.s.i.