

Chapter 57

FLIGHT REFUELING INDICATOR, PAGE C.5570

LIST OF CONTENTS

	<i>Para.</i>	<i>Para.</i>
<i>Introduction</i>	1	<i>Servicing</i> 8
<i>Description</i>	3	<i>Testing</i> 9
<i>Electrical connections</i>	6	<i>Insulation resistance test</i> 12
<i>Installation</i>	7	

LIST OF ILLUSTRATIONS

	<i>Fig.</i>	<i>Fig.</i>
<i>Circuit diagram</i>	1	<i>Indicator unit, C5570</i> 2

LEADING PARTICULARS

<i>Flight refuelling indicator, Page C.5570</i>	<i>Ref. No. 5CZ/7415</i>
<i>Operating voltage</i> 28V. d.c.
<i>Lamp, filament, A.259, 28V. 0.04 A.I.W. (7 off)</i>	<i>Ref. No. 5L/9959118</i>
<i>Overall dimensions (in.)</i>	5.31 × 2.79 × 0.81
<i>Weight of unit</i> 0.42 lb.

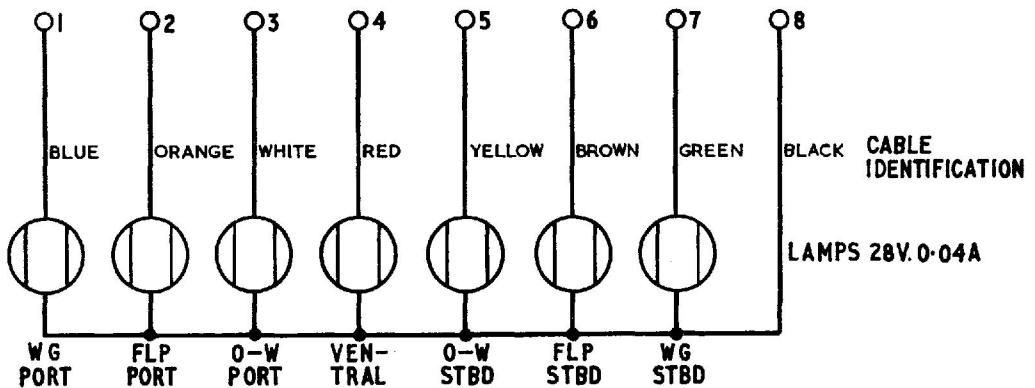


Fig. 1. Circuit diagram

Introduction

1. The Flight refuelling indicator, Page Type C.5570 is designed to indicate the sequence of events in the fuel system of Lightning aircraft when refuelling.

2. The unit groups on one panel the appropriate number of warning lamps fitted behind a caption plate, one for each fuel tank (fig. 1).

RESTRICTED

DESCRIPTION

3. The unit comprises a rectangular case in which are located the contact block and lamp panel complete with seven filament lamps. The terminal block and cover are secured to the rear of the case by two screws.

4. The frame is a straight pull-off assembly and is fitted to the front of the unit. The frame assembly is fitted with a caption plate, a dimming device and adjusting wheel. The caption plate, which has seven apertures; each aperture covers a filament lamp denoting its particular fuel tank.

5. To dim from the undimmed condition, turn the adjusting wheel through 90 deg. in either direction.

Electrical connections

6. Electrical connections are made to a terminal block at the rear of the unit, filament lamp connections are completed by individual spring-loaded contact plungers in the contact block.

INSTALLATION

7. The unit is fitted with hinged mounting lugs to allow mounting to a curved surface if required.

SERVICING

8. At the periods prescribed in the relevant Servicing Schedules, the unit should be examined for security of mounting, electrical connections and signs of corrosion.

Testing

9. A test should be performed on the unit for correct operation, when connected to its relevant circuit.

10. Should the test reveal a defective filament lamp, replace by pulling off the front frame, then releasing the Dzus fasteners which hold the lamp panel to the case.

11. After replacing defective lamps, secure the lamp panel to the case with the Dzus fasteners and replace the frame. The indicator should now be tested in its relevant circuit, by operating the flight refuelling switch.

Insulation resistance test

12. Using a 250V. insulation resistance tester, type C or equivalent, measure the insulation resistance between all live parts and the frame; the reading should not be less than 5 megohms.

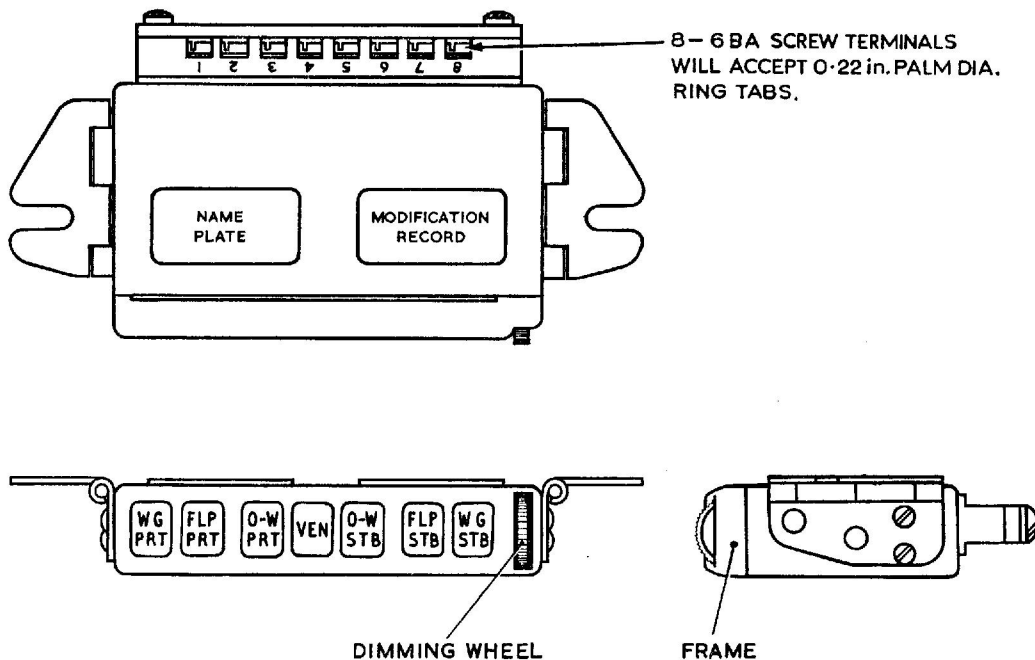


Fig. 2. Indicator unit, C5570

RESTRICTED