

SECTION 8 CENTRE OF GRAVITY COMPUTER AND ILLUSTRATIONS

CONTENTS

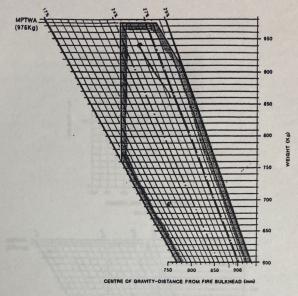
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8.1 CENTRE OF GRAVITY OVERLAY



INSTRUCTIONS FOR USE

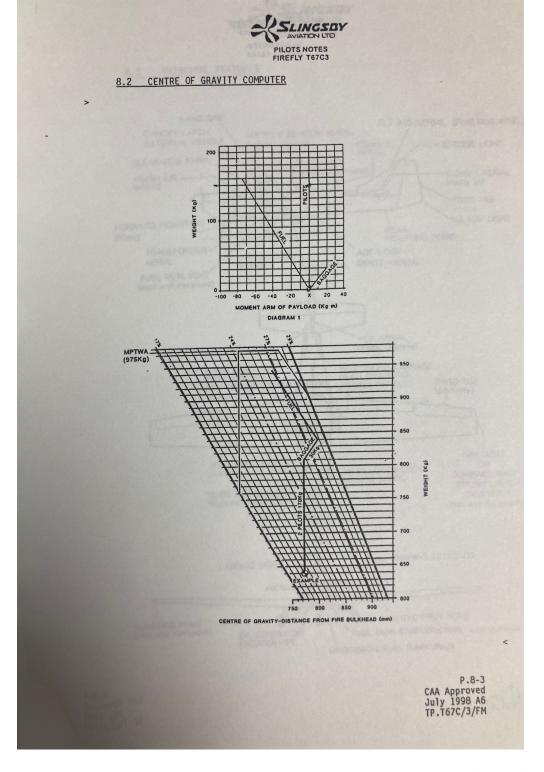
- Plot on this overlay the weight and CG of the aircraft to be checked.
- Position the point plotted in (1) over point 'X' on Diagram 1 and draw a trace along the pilots line representing the total weight of pilots to be carried.
- 3. The top end of this line now becomes your new datum point, which must be aligned with point 'X'. Then draw a trace along the baggage line representing the amount of baggage to be carried.
 ENSURE THAT THIS LINE FALLS WITHIN THE AREA OF THE ENVELOPE.
- 4. Using the end of this line as your new datum point, align it with position 'X' as before and trace along the fuel line the weight of fuel be carried. This will give you the position of CG for takeoff.

NOTE

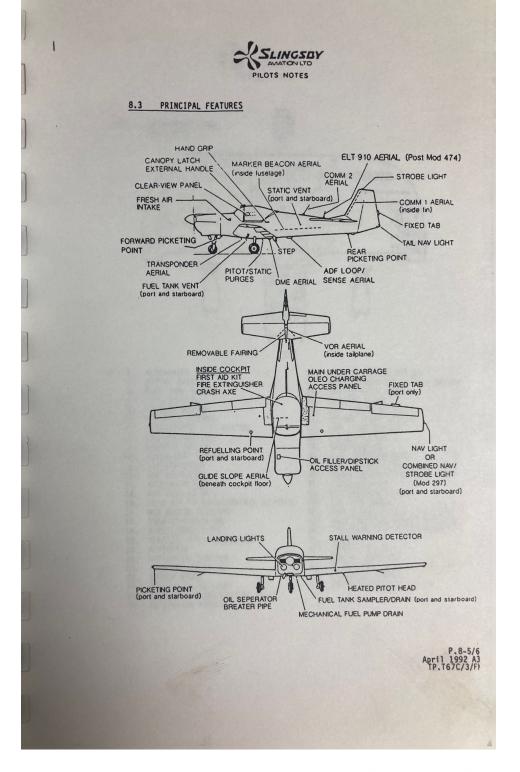
When aligning diagrams check that all horizontals are parallel.

MPTWA (Maximum Permissible Takeoff Weight Authorised)

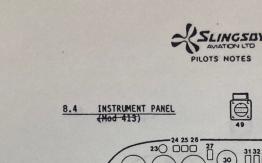
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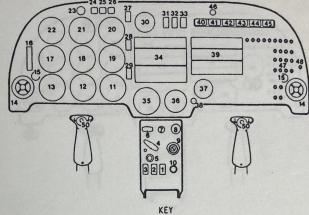


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1. ALTERNATOR SWITCH MASTER SWITCH FUEL PUMP SWITCH FUEL CONTROL STARTER BUTTON THROTTLE CONTROL CARBURETTOR HEAT CONTROL 8. MIXTURE CONTROL MAGNETO SWITCH 10. CABIN HEAT CONTROL 11. ADF INDICATOR 12. VOR INDICATOR 13. ACCELEROMETER 14. AIR VENT (2 OFF) 15. COLD AIR TO CABIN CONTROL (2 OFF) 16. MKR BEACON RECEIVER 17. TURN CO-ORDINATOR 18. DIRECTIONAL GYRO 19. VERTICAL SPEED INDICATOR 20. ALTIMETER 21. ARTIFICIAL HORIZON

22. AIRSPEED INDICATOR
23. VACUUM GAUGE

24. STALL WARNING LIGHT

25. STARTER ENGAGED WARNING LIGHT 26. ALTERNATOR WARNING LIGHT

- 27. LANDING LIGHTS SWITCH 28. NORMAL/EMERGENCY PHONES SWITCH 29. HEATED PITOT SWITCH 30. DIGITAL CLOCK 31. NAV LIGHTS SWITCH 32. STROBE LIGHT SWITCH 33. MAP LIGHT SWITCH 34. AVIONICS PANEL 35. TACHOURMETER 36. FUEL PRESSURE GAUGE 37. OUTSIDE AIR TEMPERATURE GAUGE 38. PRESS TO TEST STRUCTURAL TEMP 39. AVIONICS PANEL 40. OIL PRESSURE GAUGE 41. OIL TEMP GAUGE 42. FUEL CONTENTS GAUGE/LEFT TANK 43. FUEL CONTENTS GAUGE/RIGHT TANK 44. CYL. HEAD TEMPERATURE GAUGE
- 50. PRESS TO TRANSMIT SWITCH

48. ALTERNATOR OUTPUT CIRCUIT BREAKE

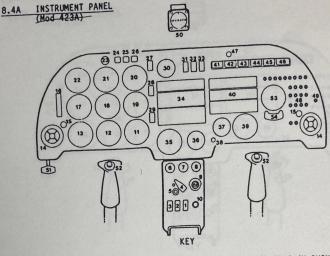
45. AMMETER 46. DIMMER SWITCH

47. CIRCUIT BREAKERS

49. MAGNETIC COMPASS

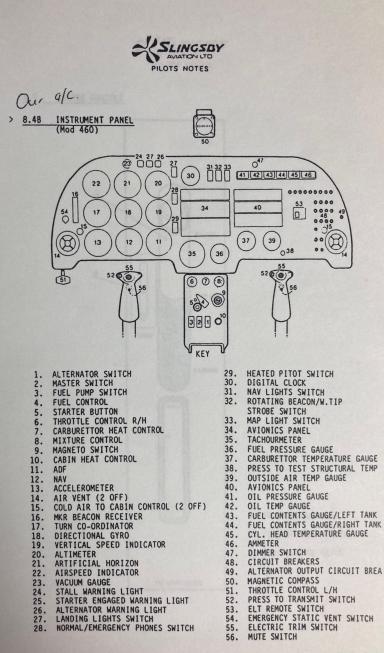
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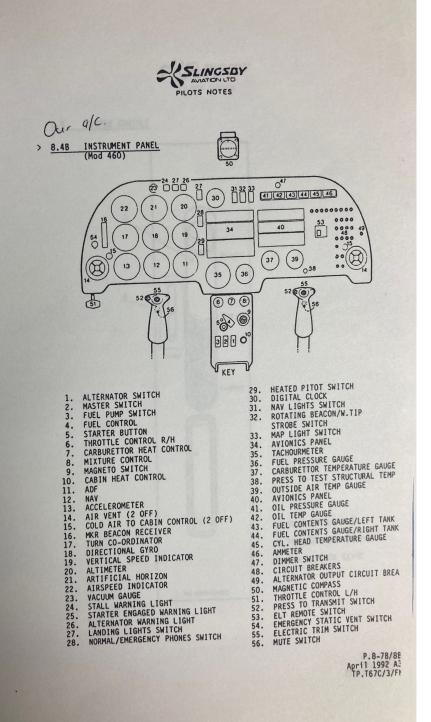


NORMAL/EMERGENCY PHONES SWITCH ALTERNATOR SWITCH HEATED PITOT SWITCH 29. MASTER SWITCH 30. DIGITAL CLOCK FUEL PUMP SWITCH NAV LIGHTS SWITCH 31. FUEL CONTROL ROTATING BEACON/W.TIP STROBE SWI 32. STARTER BUTTON 33. MAP LIGHT SWITCH THROTTLE CONTROL R/H 34. AVIONICS PANEL CARBURETTOR HEAT CONTROL 35. TACHOURMETER MIXTURE CONTROL FUEL PRESSURE GAUGE 36. MAGNETO SWITCH OUTSIDE AIR TEMPERATURE GAUGE 10. CABIN HEAT CONTROL 37. PRESS TO TEST STRUCTURAL TEMP 38. ADF 11. 39. ACCELEROMETER 12. NAV 1 40. AVIONICS PANEL 13. NAV 2 41. OIL PRESSURE GAUGE AIR VENT (2 OFF)
COLD AIR TO CABIN CONTROL (2 OFF) 14. 15. 42. OIL TEMP GAUGE 43. FUEL CONTENTS GAUGE/LEFT TANK MKR BEACON RECEIVER 44. FUEL CONTENTS GAUGE/RIGHT TANK TURN CO-ORDINATOR 45. CYL. HEAD TEMPERATURE GAUGE DIRECTIONAL GYRO VERTICAL SPEED INDICATOR 46. AMMETER DIMMER SWITCH 47. ALTIMETER CIRCUIT BREAKER 48. ARTIFICIAL HORIZON ALTERNATOR OUTPUT CIRCUIT BREAK 49. 22. AIRSPEED INDICATOR MAGNETIC COMPASS 23. VACUUM GAUGE THROTTLE CONTROL L/H 51. STALL WARNING LIGHT PRESS TO TRANSMIT SWITCH 52. 25. STARTER ENGAGED WARNING LIGHT 53. ELECTRIC ARTIFICIAL HORIZON ALTERNATOR WARNING LIGHT 54. SLIP INDICATOR 27. LANDING LIGHTS SWITCH

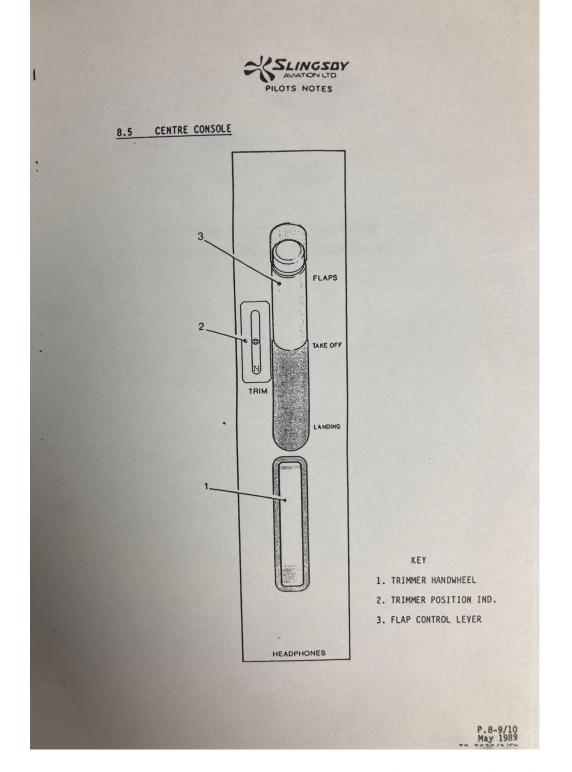
> P.8-7A/8A April 1992 A3 TP.T67C/3/FM



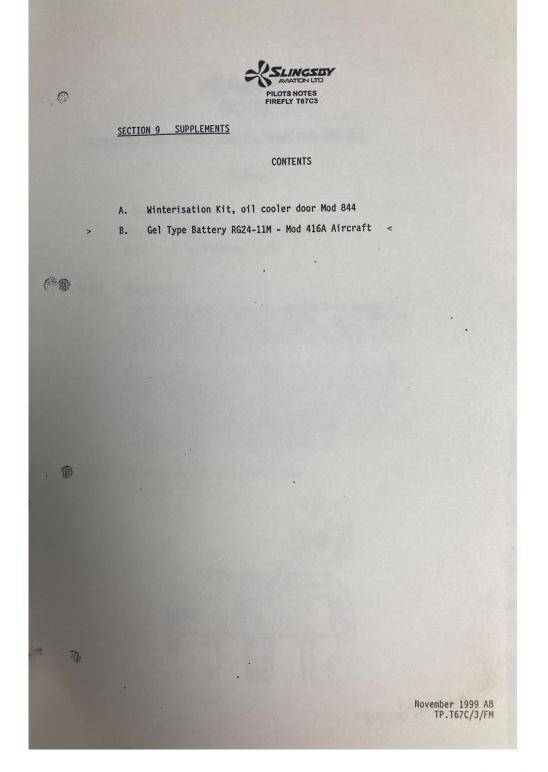
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SUPPLEMENT A WINTERISATION KIT, OIL COOLER DOOR (MOD 844)

CONTENTS

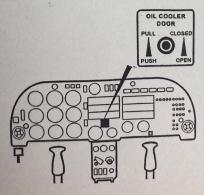
- 9.A.1 Description
- 9.A.2 Location of Control on Instrument Panel
- 9.A.3 Cowling Blanking Plates

9.A.1 DESCRIPTION

Mod 844 introduces a system of controlling the amount of cooling air available to the oil cooler. A pilot operated control in the cockpit is used to keep the engine oil temperature within the recommended range when operating in conditions of extreme cold.

A door fitted to the rear baffle directly in front of the oil cooler is opened and closed via a cable control mounted on the instrument panel. The cable incorporates a push button locking mechanism which enables the door to be set in any position between fully open and closed. When the control is pushed fully in then the door is fully open and as the control is pulled out the door closes. A fail safe is built into the system so that if the cable fails a spring returns the door to the fully open position.

9.A.2 LOCATION OF CONTROL ON INSTRUMENT PANEL



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9.A.3 COWLING BLANKING PLATES

In addition to the oil cooler door system of controlling the engine oil temperature, blanking plates should be fitted to the lower cowling air exit holes. When the ambient temperature falls below ISA -20°C (-5°C at sea level).

The blanking plates must be removed when the ambient temperature rises above ISA -15°C (-0°C at sea level).

NOTE

The pre-flight checks should be amended as follows:

Lower cowling blanking plates Fitted (Temp below ISA -20°C) Removed (Temp above ISA -15°C)

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SUPPLEMENT B GEL-TYPE BATTERY RG24-11M - MOD 416A AIRCRAFT

CONTENTS

9.B.1 Environmental restriction for Gel-Type Battery

9.B.1. ENVIRONMENTAL RESTRICTION FOR GEL-TYPE BATTERY

The installation of RG24-llM Gel-Type Battery is subject to the following environmental restriction:

Low Operating Temperature

-20°C (See note below)

High Operating Temperature

+55°C

Transient Temperature

+70°C

NOTE

(1)

If the aircraft battery has been subjected to temperatures lower than -20°C for more than 4 hrs with the aircraft parked on the ground, then the battery must be removed from the aircraft and slowly brought up to operational temperature shown above. Subject to the above procedures, flying of the aircraft at outside air temperatures lower than -20°C is permitted.

See also Operating Temperatures ref: 2.7.3.

P.B-1 November 1999 A8 TP.T67C/3/FM