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**AIR PUBLICATION
101B-0407-1A**

(Formerly A.P. 4326G, Vol. 1 and
A.P. 101B-0407-1, Sect. 1, 2, 3 and 4)

**CANBERRA PR. MK. 7 AIRCRAFT
GENERAL AND TECHNICAL INFORMATION**

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AMENDMENT RECORD SHEET

Incorporation of an Amendment List in this publication is to be recorded by signing in the appropriate column and inserting the date of making the amendments

A.L. No.	Amended by	Date
1-157	INCORPORATED	APR.77
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160	W. J. J. T.	7.9.77
161	W. J. J. T.	3/1/78
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NOTE TO READERS

Concurrent with the introduction of A.L.158, this publication has been divided into two covers, A.P.101B-0407-1A containing Sections 1, 2, 3 and 4, and A.P.101B-0407-1B containing Sections 5 and 6.

The subject matter of this publication may be affected by Defence Council Instructions, by Servicing schedules or 'General Orders and Modifications' leaflets in this A.P., in the associated publications listed overleaf, or even in some others. If possible, Amendment Lists are issued to correct this publication accordingly, but it is not always practicable to do so. When an Instruction, Servicing schedule or Modification leaflet contradicts any portion of this publication, the Instruction, Servicing schedule or Modification leaflet is to be taken as the overriding authority.

The inclusion of references to items of equipment does not constitute authority for demanding the items.

Each leaf bears the date of issue and the number of the Amendment List with which it was issued. New or amended technical matter will be indicated by triangles positioned in the text thus: ◀ ▶ to show the extent of amended texts, and thus ▶ ◀ to show where text has been deleted. When a Section or Chapter is issued in a completely revised form, the triangles will not appear.

LIST OF ASSOCIATED AIR PUBLICATIONS AND DIAGRAMS

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A.R.I.18011 (ILS)	116B-0408-1
A.R.I.23023/1 (Radio compass)	116B-0107-1
A.R.I.23090/9 (HF)	116D-0102-1A
A.R.I.23237/2 (VOR)	116B-0447-1
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Hydraulic equipment	104B/105B series and 1803 series
Instrument manuals general instruments	112G series and 1275A series
Navigation instruments	112B series and 1275B series
Oxygen equipment	112G series and 1275G series
Prefabricated construction equipment (Basic) — Canberra access structures	119F-2100 series and 4549A Book 3
Pressurizing and air conditioning equipment	107B series and 4340
Principles of aircraft weighing	119W-0001-1
Pyrotechnics	110E series and 1661E
Starting systems for aero engines	103D-0203-13A7

LAYOUT OF A.P.101B-0407
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101B-0407-2 General Orders and Modifications
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101B-0407-12 Ground Handling Notes
101B-0400-13 Modification Lists
101B-0407-15 Pilot's Notes

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MODIFICATION STANDARD

◀ This Air Publication has been written to the Canberra PR Mk.7 modification standard 7Y2 listed below. Modifications added subsequent to this standard are listed separately.

1	96	197	295	344	502	613	726	894	1169	1434	1721	2193	2585	3356	3819	4160	4781	5190
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MODIFICATIONS INCLUDED SUBSEQUENT TO STANDARD

Modification Number	Effect on Publication	Incorporated by A.L. Number
5439	To make provision for and introduce a banner target towing facility from a centreline station in the flare bay.	180
5118	Amends Sect.3, Chap.6	183
5269	Amends Sect.3, Chap.11	184
5340	Amends Sect.4, Chap.2	185
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5245	Amends Sect.3, Chap.8A	195
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5500	Amends Sect.1, Chap.2	
	Amends Sect.2, Chap.3	
5536	Amends Sect.3, Chap.3	220

MEMORANDUM FOR THE SECRETARY OF DEFENSE

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





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LUBRICATION - OILS AND GREASES

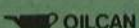
THE LUBRICATION DIAGRAMS THROUGHOUT THIS PUBLICATION REFER TO OILS AND GREASES BY SYMBOLS. REFERENCE MUST ALWAYS BE MADE TO THIS MARKER CARD FOR INTERPRETATION OF THE LUBRICANT REQUIRED AND THE METHOD OF APPLICATION.

SYMBOL	NOMENCLATURE	REFERENCE NO.	N.A.T.O. CODE NO.
	Oil OEP-71	34B/9100540	O-136
	Oil OM-15	(1 gall.) 34B/9100572 (45 gall.) 34B/2202291	H-515
	Oil OM-150	34B/9100550	O-140
	Oil OX-14	(2 oz) 34B/9100589 (1/2 pint) 34B/9100590	O-147
	Oil OX-38	(1 gall.) 34B/9100591 (45 gall.) 34B/2201941	O-149
	Grease XG-235	34B/9440585	G-363
	Grease XG-271	34B/9100510	G-382
	Grease XG-273	34B/9423151	G-357
	Grease XG-276	34B/9425139	G-353
	Grease XG-287	(2 oz.) 34B/2241973 (28 lb.) 34B/2241861	G-354
	Grease XG-293	34B/2241797	G-395
	Grease XG-315	(4 oz.) 34B/2201438 (225 grm.) 34B/2204466	G-394
	Grease SP-5	34B/2247686	
	Grease ZX-38	34B/9437518	S-722
	Grease ZX-32	34B/2202430	S-717

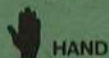
METHOD OF APPLICATION SYMBOLS



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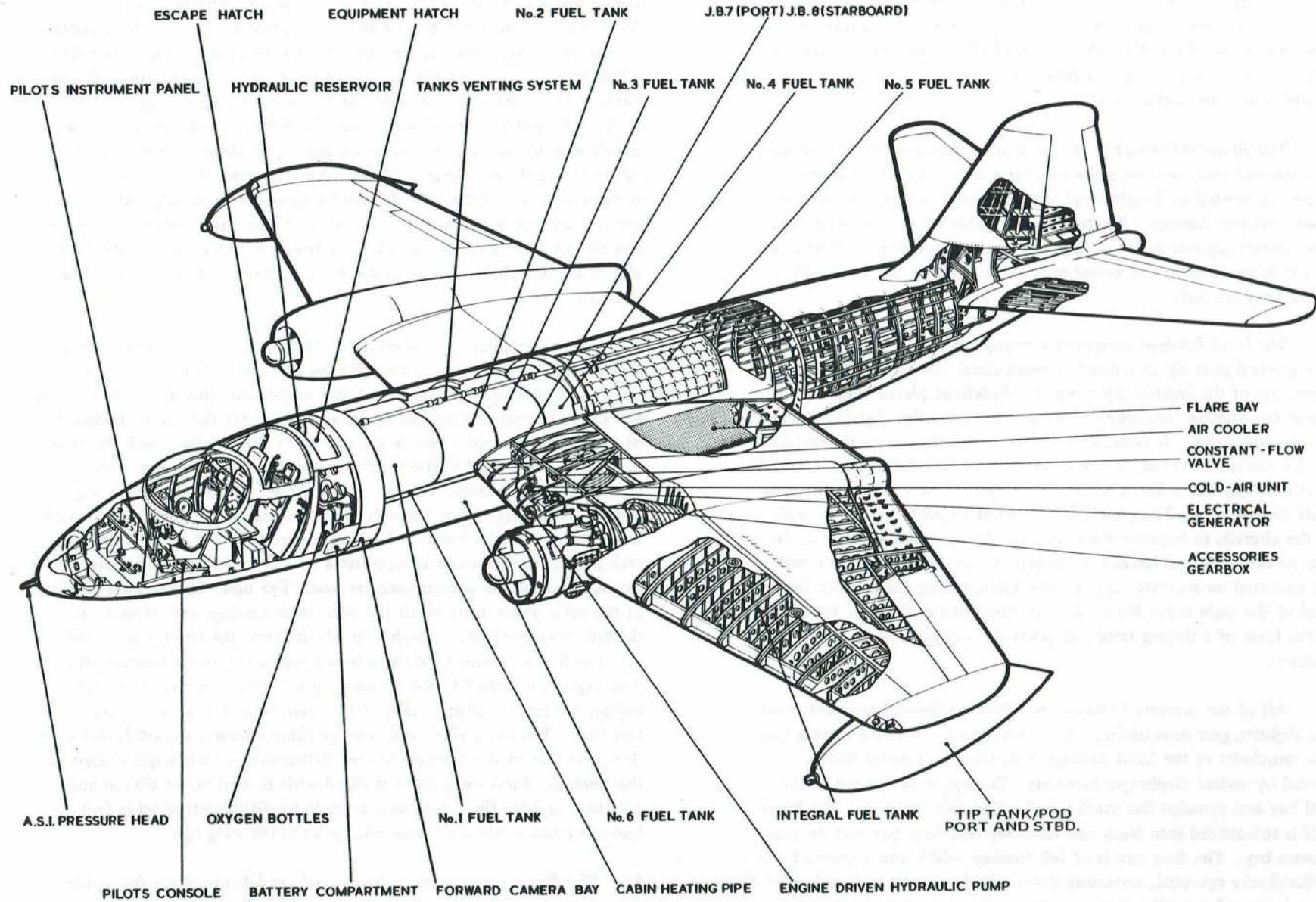


FIG. 1. CANBERRA PR. Mk. 7

◀ TITLE AMENDED ▶

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INTRODUCTION

1. The Canberra PR Mk.7 aircraft is a twin engine jet propelled mid-wing aircraft fitted with a retractable tricycle alighting gear and is employed in the photographic reconnaissance role. The aircraft is powered by two Avon Mk.109 engines which are mounted in the main planes. The crew consists of a pilot and a navigator, each of whom is provided with an ejection seat.
2. The all-metal fuselage is of a monocoque construction, consisting of a stressed skin covering supported on a framework of transverse frames connected by longitudinal stringers; it is built in two sections - front, and rear fuselage. To facilitate assembly of the complete aircraft and dismantling into main units, junctions are provided in all controls, hydraulic pipes, electrical wiring etc., at the ends of the units into which they are built.
3. The front fuselage comprises a transparent nose fairing, fitted with a toughened glass sighting panel, a pressurized cabin sealed off from the remainder of the fuselage by a pressure bulkhead placed diagonally across the fuselage, equipment compartments and the alighting gear nose undercarriage unit. A door, jettisonable in an emergency, is provided on the starboard side of the cabin for normal entry and exit. The pilot's canopy and a hatch above the navigator's seat provide emergency exits for the crew. The pilot's seat is offset to port of the centre-line of the aircraft, to improve visibility, and the navigator's seat is at the rear of the cabin and backed on to the pressure bulkhead. The seats are mounted on separate support structures, raising them above the level of the main cabin floor. An extension of the floor, in the nose, in the form of a sloping ramp, supports the navigator in the prone position.
4. Aft of the pressure bulkhead are three equipment compartments, the alighting gear nose-undercarriage unit, and the forward camera bay. The remainder of the front fuselage is divided by a metal floor supported by arched diaphragm members. The upper half serves as the fuel bay and contains five crash-proof collapsible fuel bags. The lower half is sub-divided into No.6 fuel tank bay, the flare bay and the rear camera bay. The flare bay is of full fuselage width and is closed by two hydraulically operated, retracting doors. Bulkheads at each end carry the door jacks and operating linkage. The main plane centre-section frame is an integral part of the fuselage.
5. The rear fuselage carries the tail unit, which comprises a metal rudder and tail plane, and a wood-and-metal fin. The tail plane is fitted with an incidence adjustment unit designed to give positive control at high Mach numbers. The incidence is varied by an electrical actuator which ensures irreversibility of control under any condition of flight and enables quick changes to be made in fore-and-aft trim during take-off, flight and landing. The elevators are of conventional design and incorporate a spring tab in the port and a geared, fixed-movement balance tab in the starboard elevator. Forward of the spar, the fin is of wooden construction, aft of the spar the rudder shroud is of metal, with the aerofoil section maintained by flanged plate ribs. The rudder is all-metal and incorporates a spring tab which, through an electrical actuator, acts also as a trim tab; it is so arranged that full travel is available for either function.
6. The main planes are all-metal cantilever structures of symmetrical section, with a main spar and a sectional rear wall. The power units are mounted mid-wing. The main spar is a single web with machined booms, the web cut away and reinforced by ring plates for the accommodation of the engine jet pipe. Four main and seven shear bolts attach the spar root to the main spar centre-section in the fuselage. The rear wall consists of three pressed sections, the inner and centre sections being attached to a forged ring through which the engine jet pipe passes; at the main plane root, the inner section is attached by one bolt to a fuselage pick-up point. The outer section has a curved web which forms the forward wall of the pressure-balance box. The inner leading-edge section of the main plane, into which the main undercarriage unit retracts, is divided transversely by a diaphragm which forms the front wall of the wheel well; extending from the inboard engine-rib to the fuselage, the diaphragm is attached to the fuselage by one bolt. Outboard of each engine, the leading edge section of the main plane forms an integral fuel tank. The main plane and fuselage skins intersect smoothly without fillet, the skin at the main-plane root fitting over a joint angle riveted to the fuselage. Each main plane is fitted with air brakes, an aileron and split trailing edge flaps, provision is made for fitting jettisonable fuel tanks or jettisonable chaff dispensing pods to the wing tips.
7. The flying controls are conventional; pedals operating the rudder, and a horn type control column operating the ailerons and elevators. All control runs consist of push-pull tubes and levers.

8. The retractable tricycle alighting gear is operated hydraulically, the main undercarriage units retracting inwards into the main planes and the nose undercarriage unit retracting rearward into the front fuselage. The main unit struts are oleo-pneumatic single cantilever-mounted wheels, and with hydraulic disc-type brakes. The nose undercarriage is liquid-sprung; the unit is fully castering and self-centring with twin wheels keyed together to eliminate shimmy.

9. The engines are mounted on engine ribs just forward of the main spar. Each is slung on four attachments, all but one of which are designed to take up expansion. All auxiliaries are mounted on gearboxes inboard of the engines. Turbo-starters are fitted, the units being faired into the engine air intakes. Oil is carried in the engine sumps only and is fuel-cooled.

10. Fuel is delivered from No.1, 2, 3, 4 and 6 tanks into a collector box at the rear of No.6 tank. No.5 tank and the collector box are each fitted with two submerged fuel pumps and are connected to galleries delivering fuel to the engines. A submerged fuel pump is fitted in each integral wing-tank and low-pressure cocks permit fuel from these tanks to be fed direct to the engines or transferred to No.5 tank. Separate

switches operate the fuel pumps and low-pressure cocks. Electrostatic fuel contents gauges are fitted in all fuselage tanks and the integral wing tanks. Individual vent pipes are installed for the integral tanks, while all fuselage tanks vent into a common gallery.

11. The fire protection system comprises five extinguishers serving the flare bay, fuselage fuel tank bays and the engines; flame detectors are utilized in the engine bays only.

12. All electrical power is drawn from two 24 volt, 9 kilowatt generators and from one 24 volt battery with appropriate inverters for radio and radar equipment. A 2.4 volt battery is installed for emergency instrument panel lighting; and two 12 volt batteries situated in the pilot's console, supply emergency power for the detonator circuits and the turn and slip indicator. One 24 volt battery, situated in the upper equipment compartment, provides the emergency power for operating the standby U.H.F. radio.

13. Radio and radar equipment, suitable to the role of the aircraft, is installed; the controls and associated equipment being located at positions convenient to the crew member concerned.

UK RESTRICTED

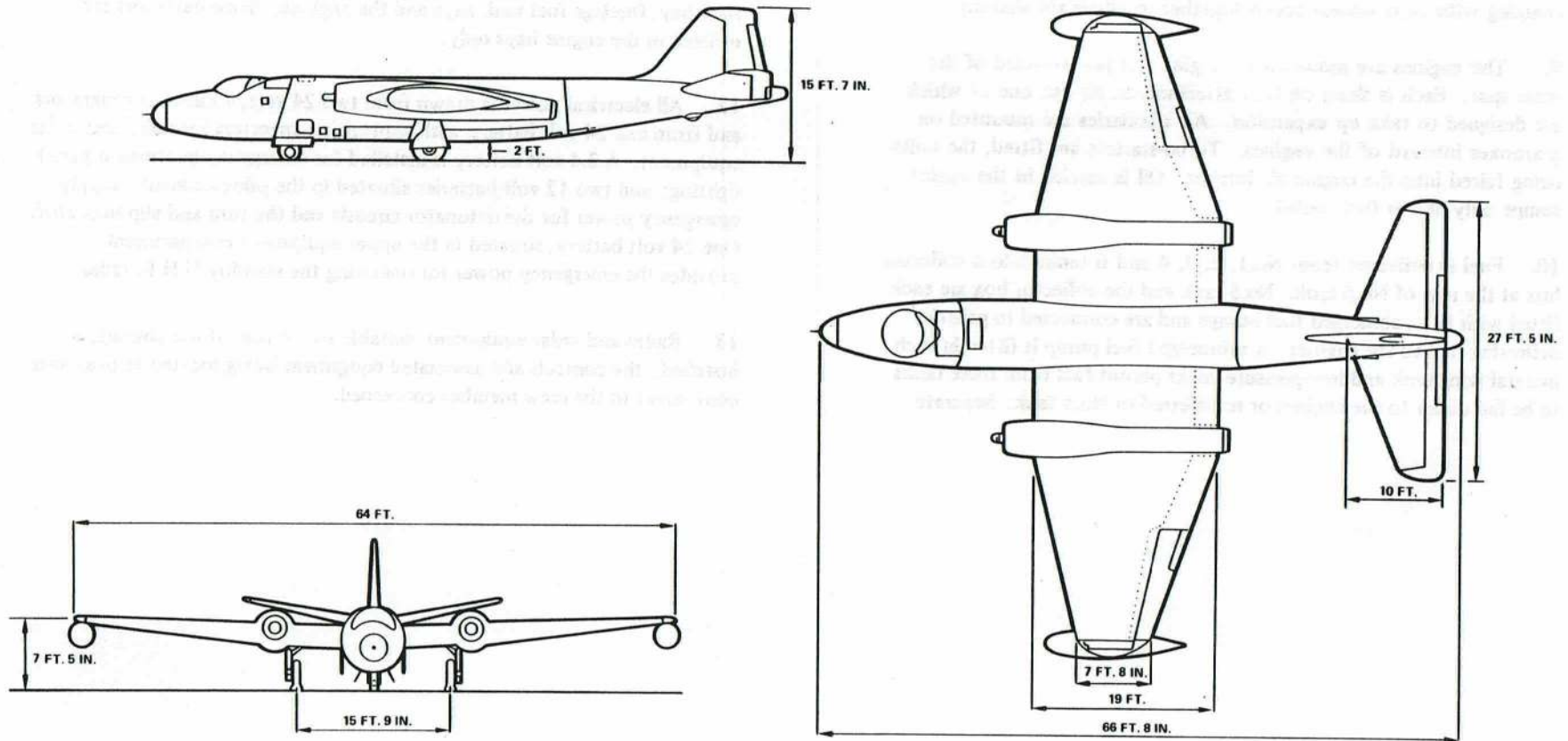


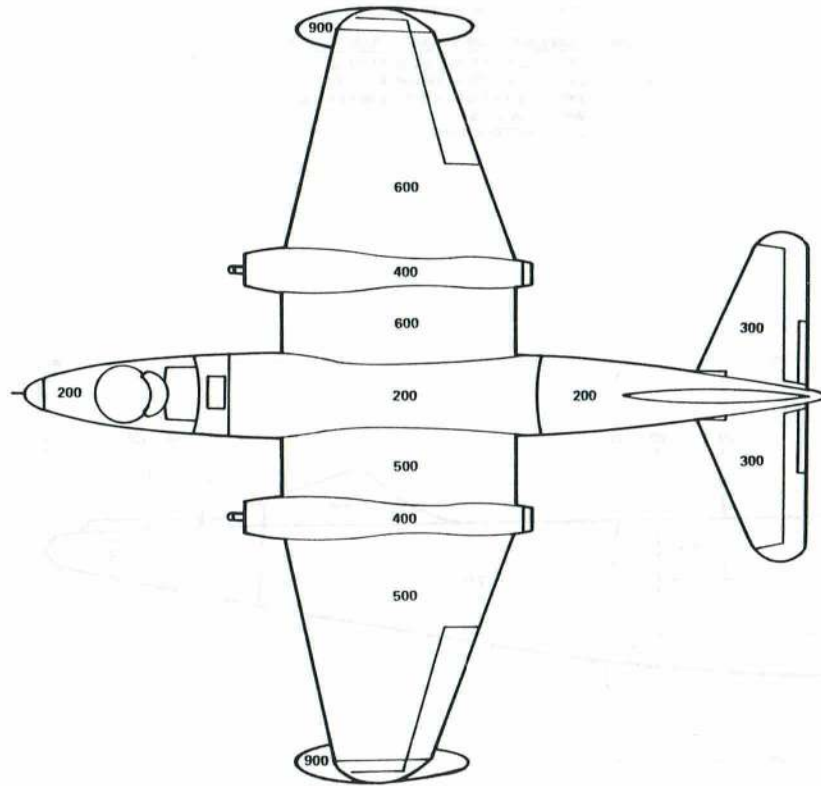
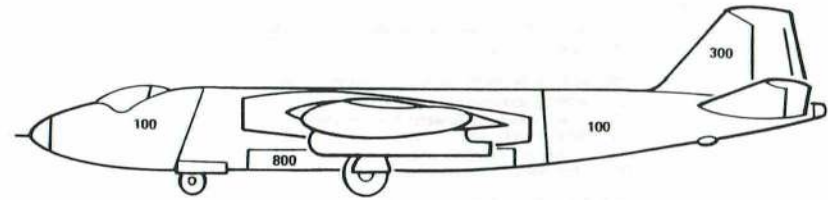
FIG. 2. GENERAL ARRANGEMENT—CANBERRA PR. Mk. 7

◀ TITLE AMENDED ▶

CANBERRA-PR. Mk.7
ZONES

◀ *(New Section)* ▶

UK RESTRICTED



MAJOR ZONES

- 100 - LOWER FUSELAGE
- 200 - UPPER FUSELAGE
- 300 - TAIL UNIT
- 400 - ENGINE AND JET PIPE BAY
- 500 - PORT WING
- 600 - STBD. WING
- 700 - LANDING GEAR AND DOORS
- 800 - DOORS
- 900 - SPECIAL FIT EQUIPMENT

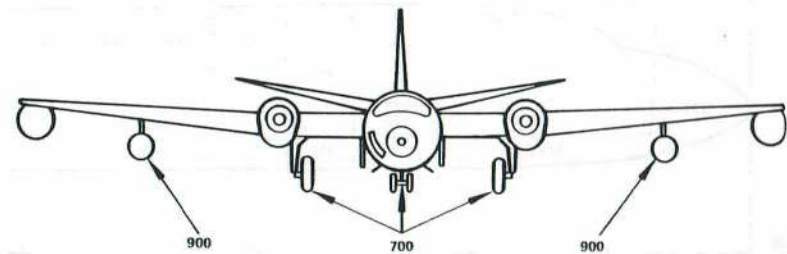


FIG. 3. GENERAL ARRANGEMENT OF MAJOR ZONES

MAJOR ZONES 100 AND 200 – LOWER AND UPPER FUSELAGE

MAJOR ZONE 100 – LOWER FUSELAGE

SUB-MAJOR ZONES

110 – FUSELAGE FORWARD OF THE PRESSURE BULKHEAD

- 111 BENEATH CABIN FLOOR

120 – FUSELAGE FROM PRESSURE BULKHEAD TO FRAME 21

- 121 PORT EQUIPMENT COMPARTMENT
- 122 STARBOARD EQUIPMENT COMPARTMENT
- 123 NOSE WHEEL BAY
- 124 FORWARD CAMERA BAY
- 125 No.6 FUEL TANK COMPARTMENT

130 – FUSELAGE FROM FRAME 21 TO 36

- 131 FLARE BAY
- 132 CENTRE CAMERA BAY

MAJOR ZONE 200 – UPPER FUSELAGE

SUB-MAJOR ZONES

210 – FUSELAGE FORWARD OF THE PRESSURE BULKHEAD

- 211 NOSE SECTION FORWARD OF FRAME 1
- 212 CABIN

220 – FUSELAGE FROM PRESSURE BULKHEAD TO FRAME 21

- 221 MAIN EQUIPMENT COMPARTMENT
- 222 AREA BETWEEN FRAME 12 & 13 AND ABOVE FORWARD CAMERA BAY
- 223 No.1 FUEL TANK COMPARTMENT
- 224 No.2 FUEL TANK COMPARTMENT
- 225 No.3 FUEL TANK COMPARTMENT
- 226 No.4 FUEL TANK COMPARTMENT

230 – FUSELAGE FROM FRAME 21 TO 31

- 231 No.5 FUEL TANK COMPARTMENT
- 232 AREA BETWEEN FRAME 27 & 29
- 233 AREA BETWEEN FRAME 29 & 31

240 – FUSELAGE FROM FRAME 31 REARWARDS

- 241 AREA FROM FRAME 31 TO 42
- 242 AREA FROM FRAME 42 TO 46
- 243 REAR FAIRINGS (FRAME 46 TO 42F)
- 244 FIN STUB
- 245 RUDDER STUB

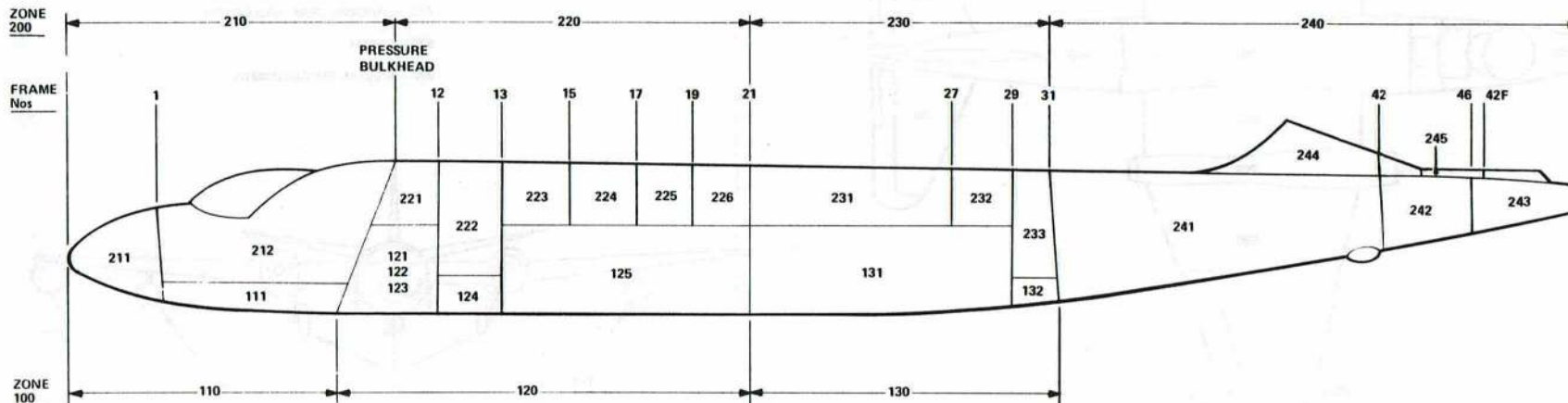


FIG. 4. MAJOR ZONES - LOWER AND UPPER FUSELAGE

UK RESTRICTED

MAJOR ZONE 300 - TAIL UNIT

SUB-MAJOR ZONES

- 310 - PORT TAILPLANE
- 320 - STARBOARD TAILPLANE
- 330 - FIN AND RUDDER

310 - PORT TAILPLANE AND CENTRE SECTION

- 311 TAILPLANE
- 312 ELEVATOR
- 313 TAB
- 314 CENTRE SECTION

320 - STARBOARD TAILPLANE

- 321 TAILPLANE
- 322 ELEVATOR
- 323 TAB

330 - FIN AND RUDDER

- 331 FIN
- 332 RUDDER
- 333 TAB

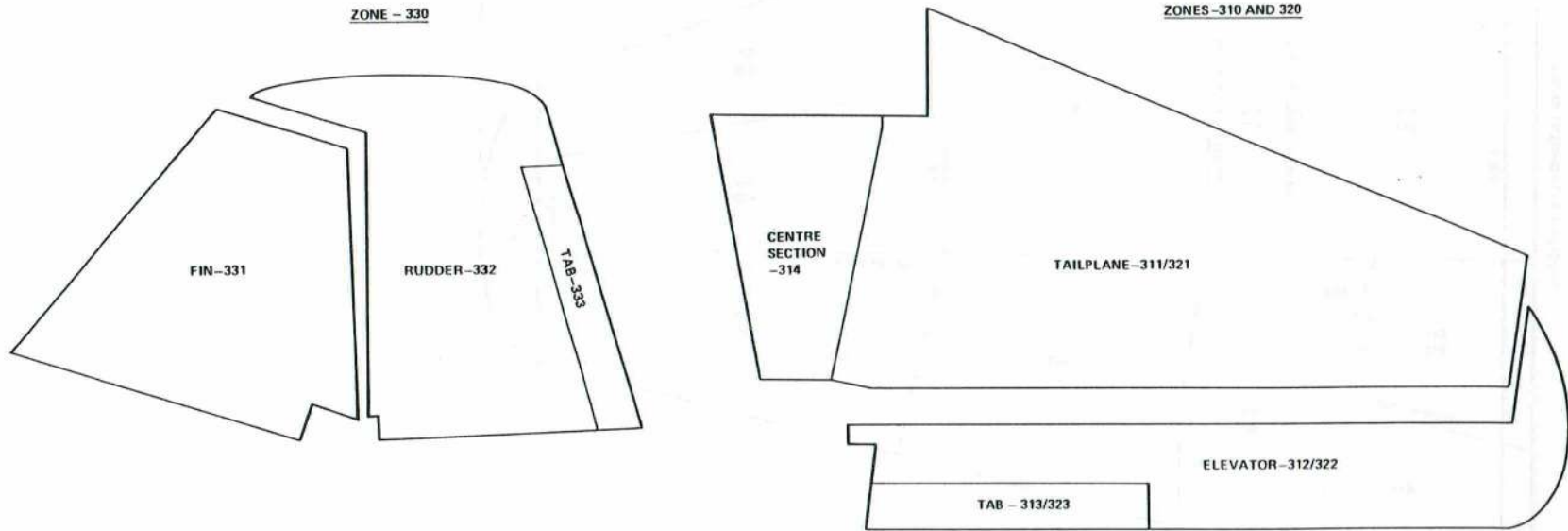


FIG. 5. MAJOR ZONES - TAIL UNIT

MAJOR ZONES - 400,500 AND 600 - PORT AND STARBOARD
ENGINE/JET PIPE BAYS; PORT AND STARBOARD WINGS

MAJOR ZONE 400 - PORT AND STBD. ENGINE/JET PIPE BAYS
 MAJOR ZONE 500 - PORT WING
 MAJOR ZONE 600 - STBD. WING

SUB-MAJOR ZONES

- 410/420 - JET PIPE REAR CONE
- 411/421 - ENGINE BAY
- 412/422 - JET PIPE BAY
- 510/610 - INBOARD WING SECTION BETWEEN FUSELAGE ATTACHMENT ANGLE AND ENGINE INBOARD RIB
- 520/620 - CENTRE SECTION WING BETWEEN ENGINE OUTBOARD RIB AND RIB 4
- 530/630 - OUTBOARD WING SECTION BETWEEN RIB 4 AND WING TIP

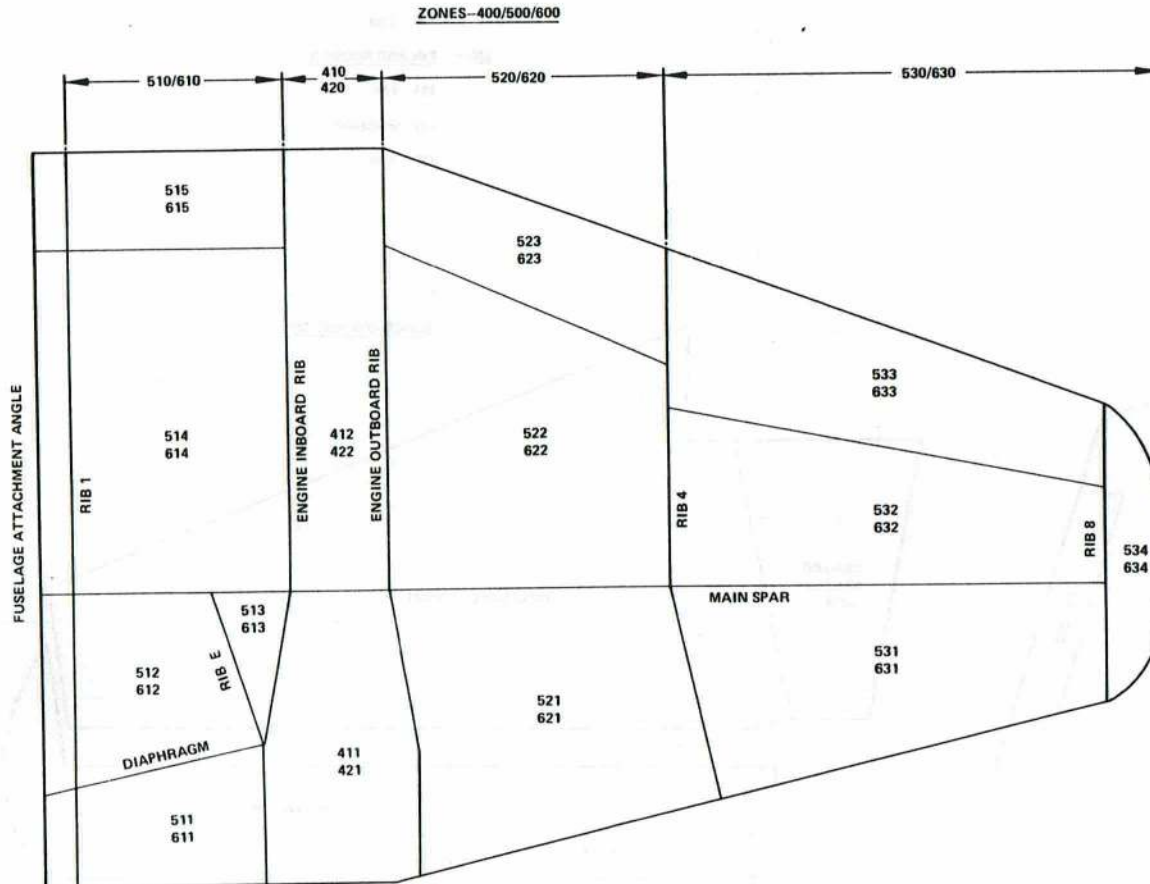
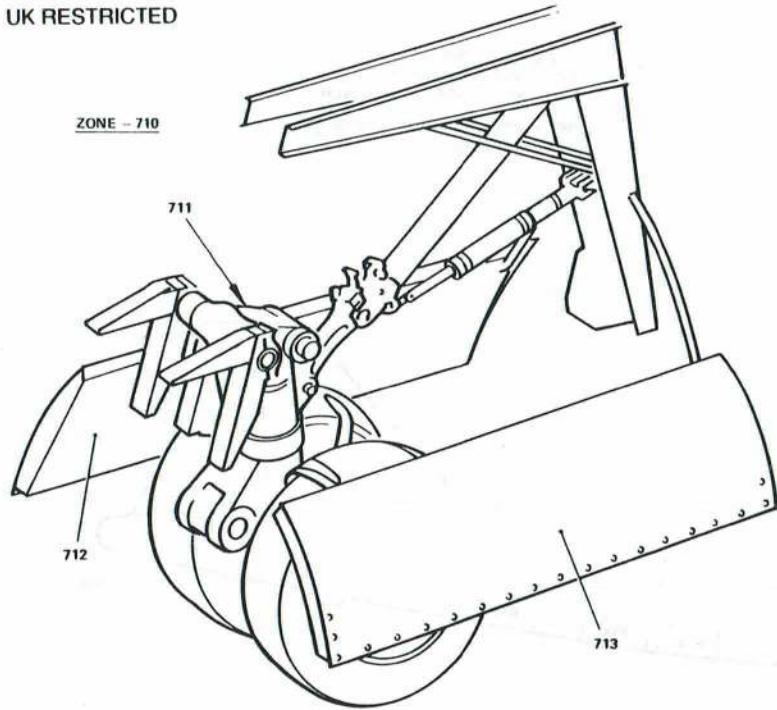


FIG. 6. MAJOR ZONES - ENGINE AND JET PIPE BAYS AND PORT AND STBD. WINGS

UK RESTRICTED



- 710 - NOSE LANDING GEAR AND GEAR DOORS
 - 711 NOSE LANDING GEAR
 - 712 NOSE LANDING GEAR DOOR RIGHT
 - 713 NOSE LANDING GEAR DOOR LEFT
- 720 - STBD.MAIN LANDING GEAR AND GEAR DOORS
 - 721 MAIN LANDING GEAR
 - 722 MAIN LANDING GEAR SPAT AND FLAP
 - 723 MAIN LANDING GEAR DOOR
- 730 - PORT MAIN LANDING GEAR AND GEAR DOORS
 - 731 MAIN LANDING GEAR
 - 732 MAIN LANDING GEAR SPAT AND FLAP
 - 733 MAIN LANDING GEAR DOOR

MAJOR ZONE 700 - LANDING GEAR AND DOORS

SUB-MAJOR ZONES

- 710 - NOSE LANDING GEAR AND GEAR DOORS
- 720 - STBD.MAIN LANDING GEAR AND GEAR DOORS
- 730 - PORT MAIN LANDING GEAR AND GEAR DOORS

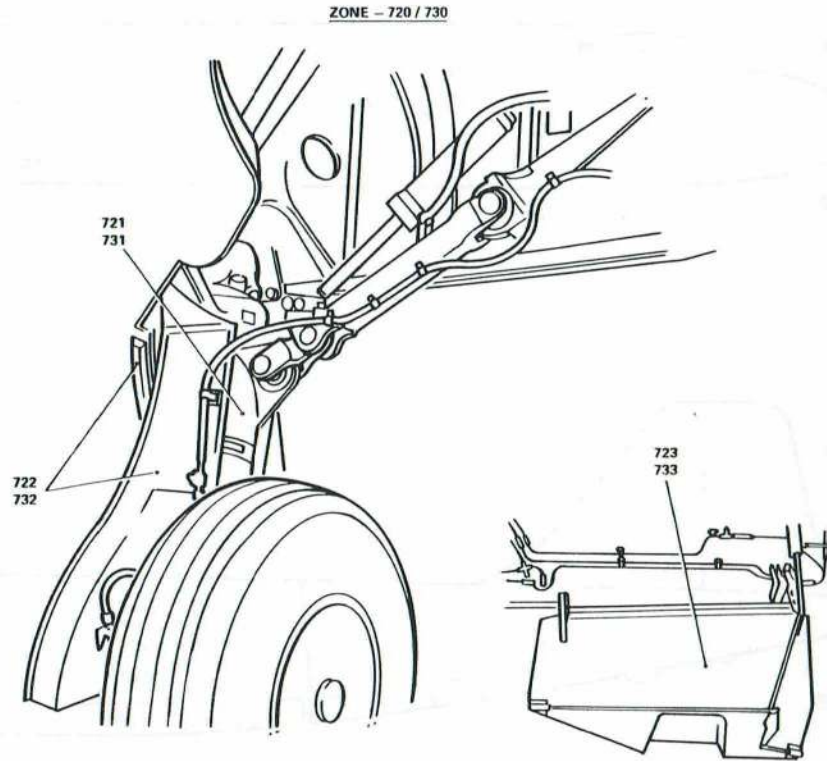


FIG. 7. MAJOR ZONES - LANDING GEAR AND DOORS

MAJOR ZONE 800 - DOORS

SUB-MAJOR ZONES

810 - LOWER FUSELAGE PORT

- 811 FORWARD CAMERA BAY DOORS
- 812 FLARE BAY DOOR
- 813 CENTRE CAMERA BAY DOOR
- 814 REAR DOOR
- 815 REAR CAMERA BAY DOOR

820 - LOWER FUSELAGE STARBOARD

- 821 CREW ENTRANCE DOOR
- 822 FLARE BAY DOOR

SUB-MAJOR ZONES

830 UPPER FUSELAGE PORT

- 831 CREW ESCAPE HATCH

840 - UPPER FUSELAGE STARBOARD

NOT USED



FIG. 8. MAJOR ZONES - DOORS

UK RESTRICTED

MAJOR ZONE 900 - SPECIAL FIT

910-PORT WING TIP TANK (OR CHAFF DISPENSER)

940-NOT USED

920-NOT USED

950-NOT USED

930-NOT USED

960-STARBOARD WING TIP TANK (OR CHAFF DISPENSER)

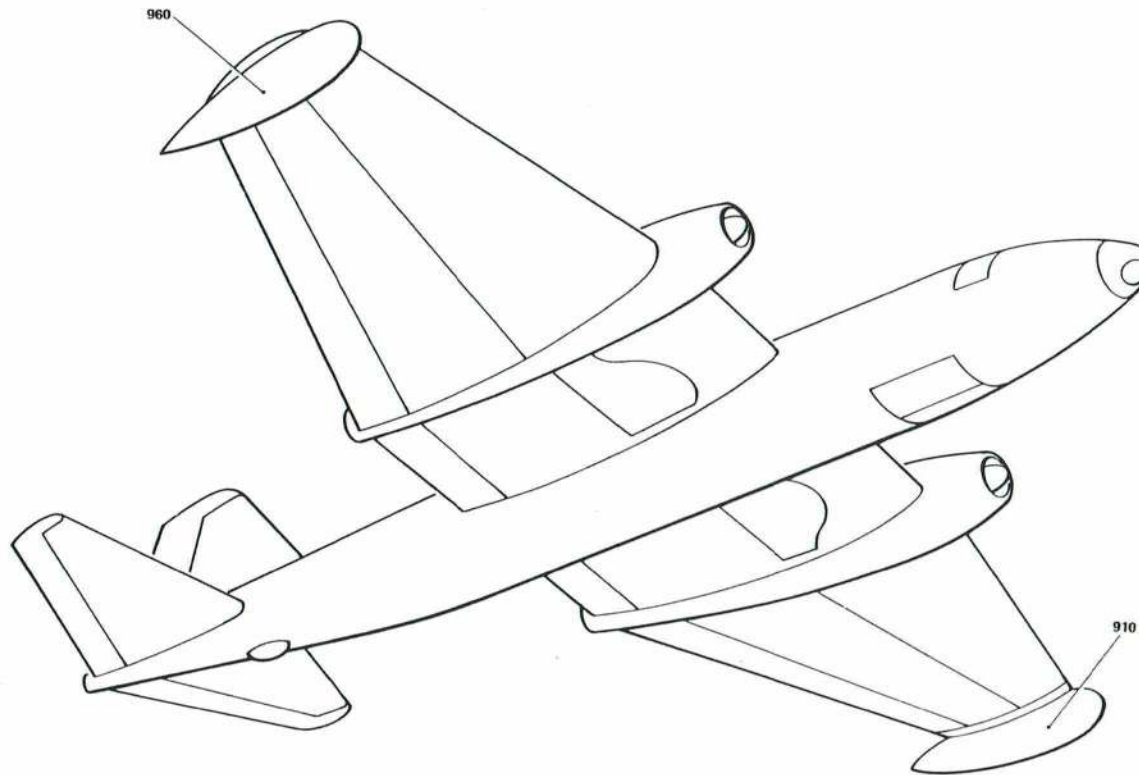


FIG. 9. MAJOR ZONES - SPECIAL FIT

PRESSURE HEAD SETTING

Position On nose tip
 Type Mk.8W
 Angular setting Parallel with aircraft centre line ± 1 deg

TANK CAPACITIES

Fuel tanks		Weight (lb)		
			Avtur	Avtag
No.1	} Forward Group	260 gal	2080	2028
No.2		260 gal	2080	2028
No.3		220 gal	1760	1716
No.4		220 gal	1760	1716
No.5 (aft)		540 gal	4320	4212
No.6 (belly) (including collector box - 45 gal NOT including 30 gal unusable)		417 gal	3336	3223
Main plane integral tanks (port and starboard)		856 gal	6848	6677
Wing tip jettisonable tanks (two)		488 gal	3904	3806
Total fuel (usable)		3261 gal	26088	25016

◀ Oil

In engine sumps (each engine) 16 pints
 Total oil (each engine) 19 pints
 Accessories gearboxes (each gearbox) 3.125 pints
 Hydraulic tank 16 pints
 2-speed accessories gearbox (each gearbox) 0.875 pints

Note . . .

The lubricant Reference and N.A.T.O. code numbers are printed on the reverse of the List of Contents marker card.

OXYGEN SYSTEM

Cylinders

One 2250 litres (Ref. No.6D/9429900)
 Six 750 litres (Ref. No.6D/9429896)

Emergency oxygen

Forward station One Mk.2A set
 Ejection seats One Mk.7J set each ▶

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