3rd Edition AP 4326 H-PN

~~RESTRICTED~~

Pilot's Notes
Canberra
B (I) Mk 8

~~RESTRICTED~~

AMENDMENTS

Amendment lists will be issued as necessary and should be inserted in the appropriate place in the Notes. New or amended paragraphs will be indicated by triangles positioned in the text thus: ◀..... ▶ to show the extent of the amended text, and thus: ▶◀ to show where text has been deleted. When a page is issued or re-issued by amendment the number of the Amendment will appear at the bottom of the page. When a chapter is issued or re-issued in a completely revised form the triangles will not appear. Incorporation of an Amendment list must be certified by inserting the date of its issue, the date of incorporation and signature below.

Amdt. list		Signature	Date of Incorporation	Amdt. list		Signature	Date of Incorporation
No.	Date			No.	Date		
1.		[signature]	29/3/68	7.		[signature]	11/6/69.
2.				8.			
3.				9.			
4.				10.			
5.				11.			
6.		[signature]	11/6/69	12.			

Comments and suggestions regarding Pilot's Notes should be forwarded to the Officer Commanding, Handling Squadron, Royal Air Force, Boscombe Down, Wiltshire.

February, 1962
3rd Edition

A.P.4326H—P.N.

PILOT'S NOTES
CANBERRA B(I) MK. 8

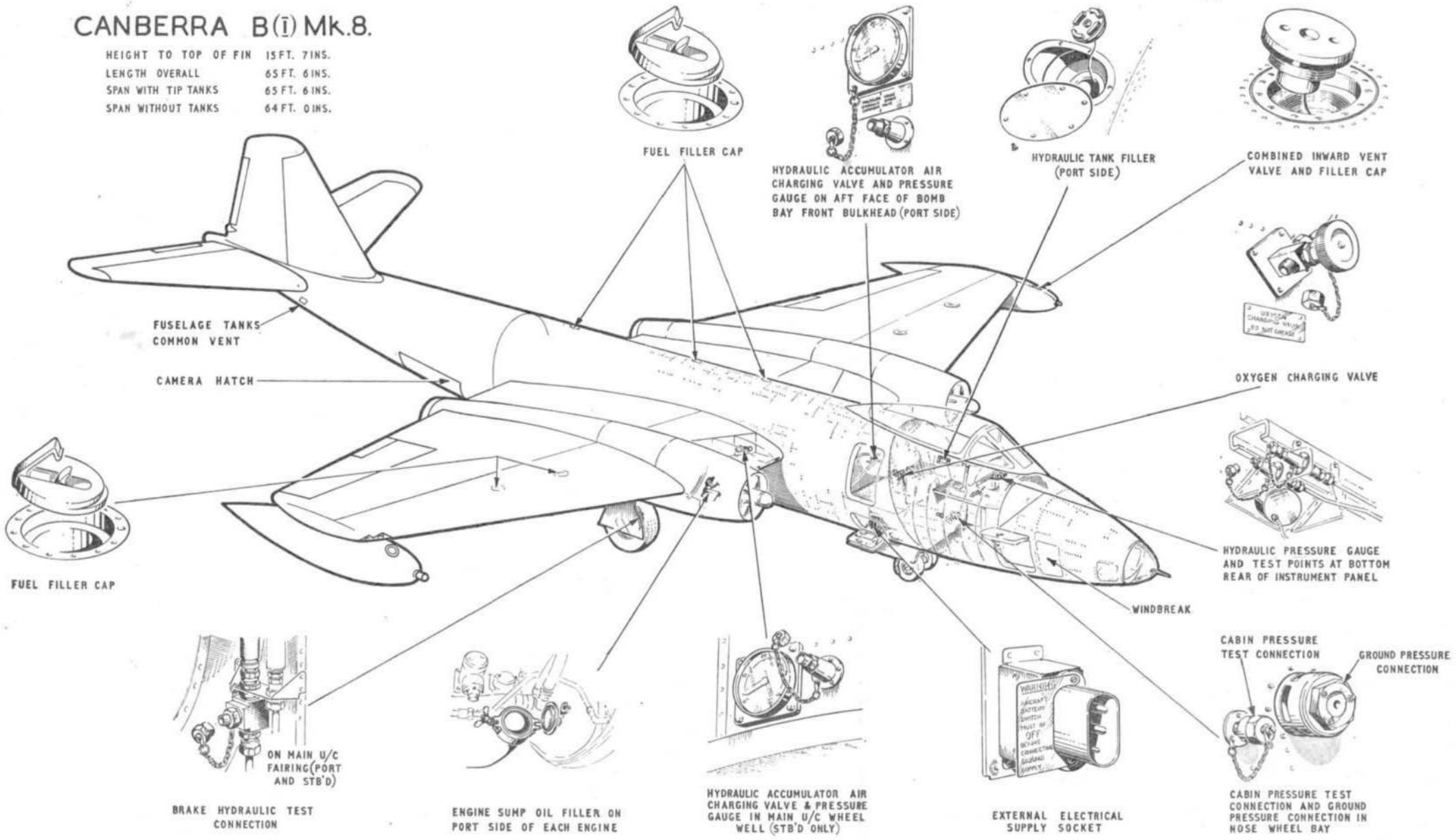
Prepared by Direction
of the
Minister of Aviation

Promulgated by Command
of the
Air Council

RESTRICTED

CANBERRA B(I) Mk.8.

HEIGHT TO TOP OF FIN	15 FT. 7 INS.
LENGTH OVERALL	65 FT. 6 INS.
SPAN WITH TIP TANKS	65 FT. 6 INS.
SPAN WITHOUT TANKS	64 FT. 0 INS.



NOTES TO USERS

1. These Notes are complementary to A.P.129 (6th Edition) Flying, and reference should also be made to the Operating Data Manual (A.P.4326H-O.D.).

2. The limitations quoted in Part II are mandatory and must not be exceeded except in emergency. The contents of other parts of the book are mainly advisory but instructions containing the word "must" are also mandatory.

3. The Notes are divided by marker cards into five Parts, each consisting of a number of chapters listed on the marker cards. A Folio Sheet reference number is at the top left-hand corner of each sheet, each Part starting at FS1. The following conventions also apply:—

(a) Words in large capital letters in the text indicate the actual markings on the controls concerned.

(b) Unless otherwise indicated, all airspeeds, mach numbers and accelerometer readings quoted are indicated values.

◀4. The Flight Reference Cards are an integral part of the Notes and reference is made to them, where necessary, throughout the Notes. With effect from Amendment List No. 6 the Flight Reference Cards are issued separately from the Notes as A.P.4326H-FRC and are subject to separate amendment procedure. Further copies of the Cards can be obtained on demand. ▶

5. Each Amendment List instruction sheet includes a list of Special Flying Instructions and a list of the modifications covered by the Amendment.

6. Modification numbers are only referred to in these Notes when it is necessary to differentiate between pre and post-mod. states. For ease of reference a list of modifications mentioned in the text is included before the main contents list, with a cross reference to the position in the text where details of the modifications are given.

LIST OF ASSOCIATED AIR PUBLICATIONS

Title	*A.P. No.*
Canberra B(I) Mk. 8 aircraft ...	◀4326H Vol. 1 (101B-0408-1)
Avon Mk. 109 Aero engine	4321G, J, L, N, U and V
Aircrew equipment assemblies ...	1182
Electrical Equipment	4343 Series (113D series)
Engine starting systems	1181
Ejection seats R.A.F. aircraft... ...	4288 Series (109B-0101-1)
Guns—20 mm. Hispano	1641F
Hydraulic equipment	1803 Series (105B series)
Instrument manual	1275A (112G series)
Navigation instruments	1275B (112G series)
Intercomm. equipment	2876E
VHF equipment	2538P
Radio altimeter equipment (AYF) ...	2533 Series
ILS equipment	2534E
Signal manual	1186 Series
R.A.F. engineering	1464 Series
Oxygen equipment	1275G (112G series)
Pressurising and air conditioning equipment	4340 (107B series) ▶
UHF	2531 Series
ARI 23057 (Standby UHF)	2531N

MODIFICATION NUMBERS MENTIONED IN THE TEXT

Mod.	*Title*	*Location in text* Pt.	Ch.	para.
	CANBERRA MODS.			
3275	To introduce an air ventilated suit (AVS) system	I,	8,	1
3367	To introduce revised positions for fuel gauge capacitor belt studs in No. 3 fuel tank			
3391	Part A—To introduce co-axial cable in No. 3 fuel tank	I,	2,	8
3391	Part B—To introduce fuel contents gauge AG144			
3525	Air sampling ducts	I,	11,	15
3832	To introduce improved escape facilities for the navigator	I,	9,	4(*c*)(ii)
3842	To introduce vibrator units for the Mk. 19 altimeters	I,	6.	6(*b*)(i)
3897	To introduce altimeter Mk. 22F at the pilot's station in lieu of Mk. 19	I,	6,	6(*b*)(ii)
4129	To introduce sub-miniature radio compass (AD.722)	I,	10,	7
4279	External power supply for pre-heating Decca crystal ovens ...	I,	1,	4
4320	To introduce PTR175 V/UHF and standby UHF in lieu of AN/ARC 52 UHF and VHF	I,	10,	3
4330 4331 4347 4348	Revised weapon control panel As 4330/1, but applicable to aircraft pre-mod. 2195	I,	11,	9
4341	To introduce practice bomb facilities from the wing pylons in conjunction with or without simulator Type 105, and to introduce relay type S.9 in lieu of micro-switch clamps	I,	11,	10(*b*)
4342	To modify the armament panel (bomber)			
◀4446	Ejection seat pins with integral tallies —provision of new stowages ...	I,	9,	21 ▶
	COMMAND MODS.			
099/RAFG	To provide stowage for control locks in the cabin	I,	5,	6(*a*)
0132/RAFG	To re-introduce F95 camera control at navigator's prone position ...	I,	11	18(*c*)

MODIFICATION NUMBERS MENTIONED IN THE TEXT—*continued*

Mod.	*Title*	*Location in text* Pt. Ch. para.
0139/RAFG	To introduce type SFOM gunsight ...	I, 11, 13
0150/RAFG	To introduce inner and outer gun selector switches	I, 11, 14(*b*)
0216/RAFG	Transit covers for gun ports ...	I, 11, 14(*c*)
0217/RAFG	Transit covers for empty case chutes	I, 11, 14(*c*)
	AVON MODS.	
843	Modified starter fairings	I, 4, 6(*b*)
	EJECTION SEAT MODS	
ES3112	To introduce a downward pull negative G restraint strap on Type 2CB series ejection seats	I, 9, 18(*j*)-(*n*)
ES3241	To introduce a modified drogue assembly (Type 2CB seats)	I, 9, 20
ESA9	To introduce modified ejection gun assemblies (Type 2CB seats)	
ESA10	To introduce modified time release assembly (Type 2CB seats)	
ESA11	To introduce modified drogue gun assemblies (Type 2CB seats)	

LEADING PARTICULARS

PRINCIPAL DIMENSIONS

	Ft.	Ins.
Span without tip-tanks	64	0
Span with tip-tanks	65	6
Length overall	65	6
Height to top of fin	15	7
◀Height to top of canopy	9	10 ▶

UNDERCARRIAGE

Mainwheel Unit

Type	Single wheel, inwards retracting
Shock absorber	Oleo pneumatic
Air pressure	Refer to Vol. 1
Fluid	OM-15
Capacity	12 pints
Tyre pressure	Refer to Servicing Schedules (Vol. 4)
Brakes	
Pressure at reducing valve	2,700, (+50,—0) PSI
Pressure at brakes ...	1,500 (+150,—0) PSI

Nosewheel Unit

Type	Twin wheel, non-steerable, castoring, rearward retracting.
Shock absorber	Levered suspension, liquid spring.
Pressure (wheels off ground)	1,500 PSI
Fluid	OM-15
Capacity	1½ pints
Tyre pressure	Refer to Servicing Schedules (Vol. 4)

HYDRAULIC SYSTEM

Fluid	OM-15
Pumps	Lockheed Mk. 9

Maximum (relief) pressure	2,700 to 2,750 PSI
Accumulator, charging gas	Air
Thermal relief valve setting	3,350 to 3,550 PSI, see Pt. I, Chap. 3, para. 3 (b)
Number of pumps ...	Two
Capacity of system ...	6¾ galls. (approx.)
Accumulator inflation pressures main and wheelbrakes:	
	1,350, (+50,-0) PSI at + 5°C
	1,400, (+50,-0) PSI at +15°C
	1,435, (+50,-0) PSI at +20°C
	1,475, (+50,-0) PSI at +30°C
Cut-out valve setting ...	2,700 to 2,750 PSI
Flaps relief valve setting	2,850 to 2,900 PSI
Header tank relief valve setting	12 to 17 PSI

POWER UNITS

Engines

Name	Avon Mk. 109 (ECU Mk. 10901)
Type	Pure jet gas turbine
Fuel	Refer to Part II, Chapter 1
Oil	
Oil system capacity ...	19 pints each engine including 16 pints sump capacity

Starting System

Type	BTH turbo, type TBS 720 Mk. 2
Cartridge	No. 10 Mk. 1 (720 grammes)

Accessories gearboxes

Oil	OEP 71
Oil sump capacity ...	3⅛ pints

ELECTRICAL SYSTEM

Voltage	28 volts
Generators	Type 519
Aircraft battery	4 x 12 v, 40 amp. hr. Type C connected in series parallel
Emergency battery ...	2 x 12 volts, 4 amp. hr.

FUEL SYSTEM

Types of fuel—See Pt. II, Ch. 1, para. 3.
Fuel tank capacities—See Pt. I, Ch. 2, para. 2.

◀WINDBREAK-DOOR AIR CYLINDER PRESSURE

1390 ± 50 PSI at 0°C
1445 ± 50 PSI at 10°C
1475 ± 50 PSI at 15°C
1500 ± 50 PSI at 20°C
1555 ± 50 PSI at 30°C ▶

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