RESTRICTED

COVER 2
Containing:-
SECTION 6
CHAPTERS 13–24

AIR PUBLICATION
101B-1902-1B
(Formerly A.P.4505B, Vol.1, Book 2)

VULCAN B Mk.2 AIRCRAFT

AIRCRAFT SERVICING MANUAL
ELECTRICAL INSTALLATION

BY COMMAND OF THE DEFENCE COUNCIL

L. T. Durrett

Ministry of Defence

FOR USE IN THE ROYAL AIR FORCE

(Prepared by the Ministry of Technology)

Issued with A.L.73, Dec.68

RESTRICTED

LETHAL WARNING

EJECTION SEATS AND CANOPY JETTISON MECHANISMS

1. Ejection seats and canopy jettison mechanisms are sources of potential danger to personnel and of damage to the aircraft. Serious injury (possibly fatal) may result if any firing mechanisms are inadvertently operated whilst the aircraft is on the ground.

2. The following instructions are to be obeyed:-

R.N. **Safety precautions contained in A.P.(N) 140 - Naval Aircraft Maintenance Manual.**

R.A.F. **ALL PERSONNEL before entering the cockpit or cabin of an aircraft fitted with an ejection seat are to report to the N.C.O. immediately in charge of airframe servicing who is to ensure that all safety pins (or other safety devices) are correctly positioned to render the seat and canopy jettison firing mechanism safe. On completion of servicing, tradesmen are to report to the N.C.O.**

3. Full instructions for rendering the firing mechanisms safe are contained in the A.P.4288 and A.P.(N) 1023 series, in Aircraft Servicing Schedules and in the A.P.5037 series.

ELECTRICAL SYSTEM

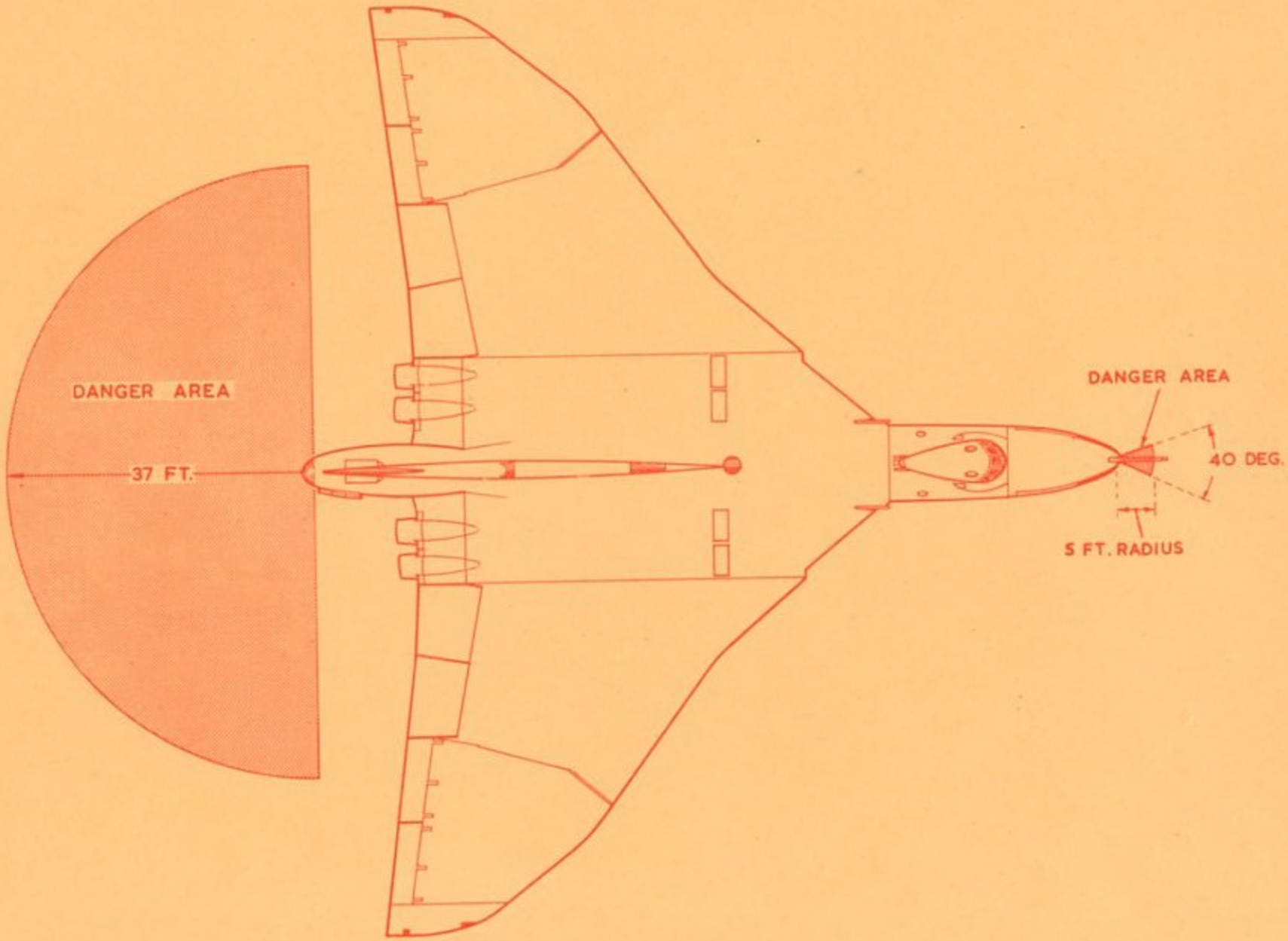
VOLTAGES IN EXCESS OF 100 VOLTS, EITHER A.C. OR D.C., CAN BE DANGEROUS UNDER CERTAIN CIRCUMSTANCES. PERSONNEL MUST THEREFORE ENSURE THAT THE ELECTRICAL SYSTEM IS ELECTRICALLY SAFE BEFORE ANY SERVICING IS ATTEMPTED. WHERE IT IS ESSENTIAL THAT TESTS OR ADJUSTMENTS BE MADE WITH THE ELECTRICAL POWER SWITCHED 'ON' THE GREATEST CARE MUST BE EXERCISED.

HIGH-ENERGY IGNITION UNITS

THE ENERGY STORED IN THE CAPACITORS OF THE HIGH-ENERGY IGNITION UNITS CAN, UNDER CERTAIN CIRCUMSTANCES BE OF A LETHAL NATURE. NO SERVICING IS TO BE ATTEMPTED UNTIL AT LEAST ONE MINUTE HAS ELAPSED FROM THE DISCONNECTION OF THE L.T. INPUT PLUG.

MICROWAVE RADIATION

There is a MICROWAVE RADIATION HAZARD from certain equipment in this aircraft. To avoid injury to health, all personnel are to keep clear of the area indicated on the illustration overleaf. The area is to be roped off and notices displayed warning personnel to KEEP CLEAR.



Microwave radiation area

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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	A.L. No.	Amended by	Date	A.L. No.	Amended by	Date
1			25			49		
2			26			50		
3			27			51		
4			28			52		
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24			48			72	Bedford	22/5/69

A.L.'s 1–72 inclusive were incorporated as Amendments to A.P.101B–1902–1B prior to the division of the A.P. into Cover 1 and Cover 2.

(Continued overleaf)

A.L. No	Amended by	Date
73		
74	[illegible]	8/2/09
75	MS	15/5/70
76	E. Hughes.	3/4/72
77	D. Gordon	21/4/72
78	E. Hughes.	30/3/72
79	MS	9/11/72
80	MS	
81	E. Hughes.	6.73
82		5
83		
84	E. Hughes.	28.1.74
85	E. Hughes.	19.2.74
86	E. Hughes.	1.74
87		6
88	E. Hughes.	9.9.74
89	E. Hughes	16/10/74
90	E. Hughes.	30/12/74
91	E. Hughes	20/1/75
92	E. Hughes	29/5/75
93	E. Hughes	13
94		7 76.
95	E. Hughes.	25/2/76
96	G. Hardman	13/5/76
97	J. Blowers	4/10/76
98	E. Hughes.	14/3/77
99	E. Hughes	10/8/77
100	E. Hughes	5/5/78

A.L. No.	Amended by	Date
101	E. Hughes.	29/6/78
102	E. Hughes	28
103		4/79
104	E. Hughes	30/11/80
105	J. Harrison	13/1/84
106	J. Harrison	13/1/84
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SECTION 6

ELECTRICAL SYSTEM

NOTE TO READERS

The subject matter of this publication may be affected by Defence Council Instructions, or by Servicing Schedules (Vol.4), or General Orders and Modification Leaflets in this A.P., in the associated publications listed below, 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 Leaflet contradicts any portion of this publication, the Instruction, Servicing Schedule or 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, except the original issue of preliminaries, 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 text, 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.

If more than one copy of this publication is held, each set of covers should be given an identifying number and be kept together.

The reference number of this publication was altered from A.P.4505B to A.P.101B-1902 in November 1966. No general revision of page captions has been undertaken, but the code number appears in place of the earlier A.P. reference on new or amended leaves issued subsequent to that date.

LIST OF DIAGRAMS

	A.D.
Access panels and drain holes	7086Q
Cabin air conditioning and pressurisation	7086V
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◀ Electrical installations	A.P.101B-1902-10 ▶
Emergency system and exits	7086N
Fire extinguishing system	7086M
◀ Flying controls and lubrication	A.P.101B-1902-D2
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Hydraulic systems	7086H
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◀ Radio locations	A.P.101B-1902-D15
Escape drill	7568
Fire service information charts	6978B ▶

LAYOUT OF A.P. 101B - 1902

VULCAN B MK.2 AIRCRAFT

Air Publication	Title
101B-1902-1	Aircraft servicing manual
Issued in six books as follows:	
101B-1902-1A Cover 1	Sect.1 and 2
101B-1902-1A Cover 2	Sect.3, 4 and 5
101B-1902-1B Cover 1	Sect.6 Chapters 1-12
101B-1902-1B Cover 2	Sect.6 Chapters 13-24
101B-1902-1C Cover 1	Sect.7 to 9
101B-1902-1C Cover 2	Sect.10
101B-1902-2	General orders
101B-1902-3A	Illustrated parts catalogue
101B-1902-3B	Appendix 'A'
101B-1902-3C	Scales of unit equipment
101B-1902-3D	Scales of servicing spares
101B-1902-4	Planned servicing schedule
101B-1902-5	Not applicable
101B-1900-6A	Aircraft repair manual
101B-1902-12	Ground handling notes
101B-1900-13	Modifications list
101B-1902-15	Pilot's notes
101B-1902-16	Operating data manual

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