

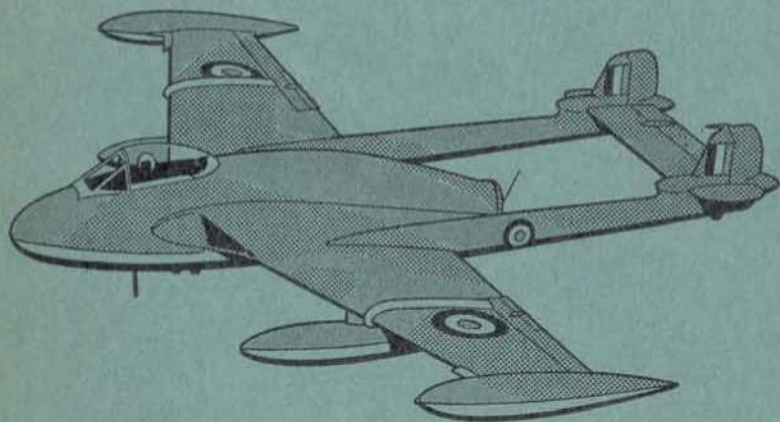
92
RESTRICTED

2nd Edition
April, 1958

A.P.4335D—P.N.

PILOT'S NOTES

VENOM F.B.4



Prepared by Direction
of the
Minister of Supply

Promulgated by Command
of the
Air Council

R. Musgrave for J. Dean.

RESTRICTED

RESTRICTED

AIR MINISTRY
August, 1959

Amendment List No. 2
to A.P. 4335D—P.N.
Pilot's Notes
2nd Edition

VENOM F.B. 4

NOTE—1. This Amendment List also covers the following modification:—
Mod. 1043.

2. When a manuscript amendment is made, *endorse* the adjacent margin "A.L.2."
3. When the Amendment List is fully incorporated:—
 - (a) *Affix* this sheet to the inside front cover of the Notes.
 - (b) *Certify* its incorporation on Page 1 of the Notes.

PAGE	PARA.	AMENDMENT
32	32 (c), (33)	<i>Amend</i> by gummed slip herewith.
42	48	<i>Amend</i> by gummed slip herewith.
51	58 (e)	<i>Add</i> at end, "If COLD is selected, open the louvre."

RESTRICTED

RESTRICTED

NOTES TO USERS

These Notes are complementary to A.P.129 (6th Edition), Flying, and it is assumed that all concerned have a thorough knowledge of the chapters which are relevant to the operation of this type of aircraft.

Additional copies may be obtained by the Station Publications Officer by application on R.A.F. form 294A, in quadruplicate, to Command Headquarters for onward transmission to A.P.F.S. (see A.P.113A). The number of this publication must be quoted in full A.P.4335D—P.N. (2nd Edition).

Comments and suggestions should be forwarded to the Officer Commanding, Handling Squadron, Royal Air Force, Boscombe Down, Wilts.

AMENDMENTS

Amendment lists will be issued as necessary and will be gummed for affixing to the inside front cover of these Notes. Each amendment list will, where applicable, be accompanied by gummed slips for sticking in the appropriate places in the text. Incorporation of an amendment list must be certified by inserting the date of incorporation and initials below.

A.L. No.	INITIALS	DATE	A.L. No.	INITIALS	DATE
1	<u>M.P.</u>	<u>13/7/59</u>	4		
2	<u>M.P.</u>	<u>3/2/60</u>	5		
3			6		

RESTRICTED

VENOM F.B.4

LIST OF ASSOCIATED PUBLICATIONS

	<i>A.P.</i>
Aircraft hydraulic equipment—Lockheed ..	1803B
Aircraft pneumatic equipment—Hymatic ..	4303C
Aircraft pressurising and air conditioning equipment	4340
Aircraft rocket installations, sighting and ammunition (R.A.F.)	2802A
Air pump units	1519
Cine-cameras and accessories	1355D
Electrical equipment manual	1095A to C
Engine—Ghost Mk. 10300 series E.C.U. ..	4320A
Ejection seats and escape equipment ..	4288
Hispano 20 mm. guns	1641F
Instrument manual	1275 series
Miscellaneous power cartridges	1661F
Powered flying control units and equipment—Lockheed	4602A
R.A.F. engineering—aircraft	1464D
Starting systems for aero-engines	1181
10-channel V.H.F. airborne equipment ..	2538HA

VENOM F.B.4

(This edition supersedes the 1st edition, issued June, 1955)

LIST OF CONTENTS

	<i>Page</i>
Notes to Users	1
List of Associated Air Publications	2

ILLUSTRATIONS IN TEXT

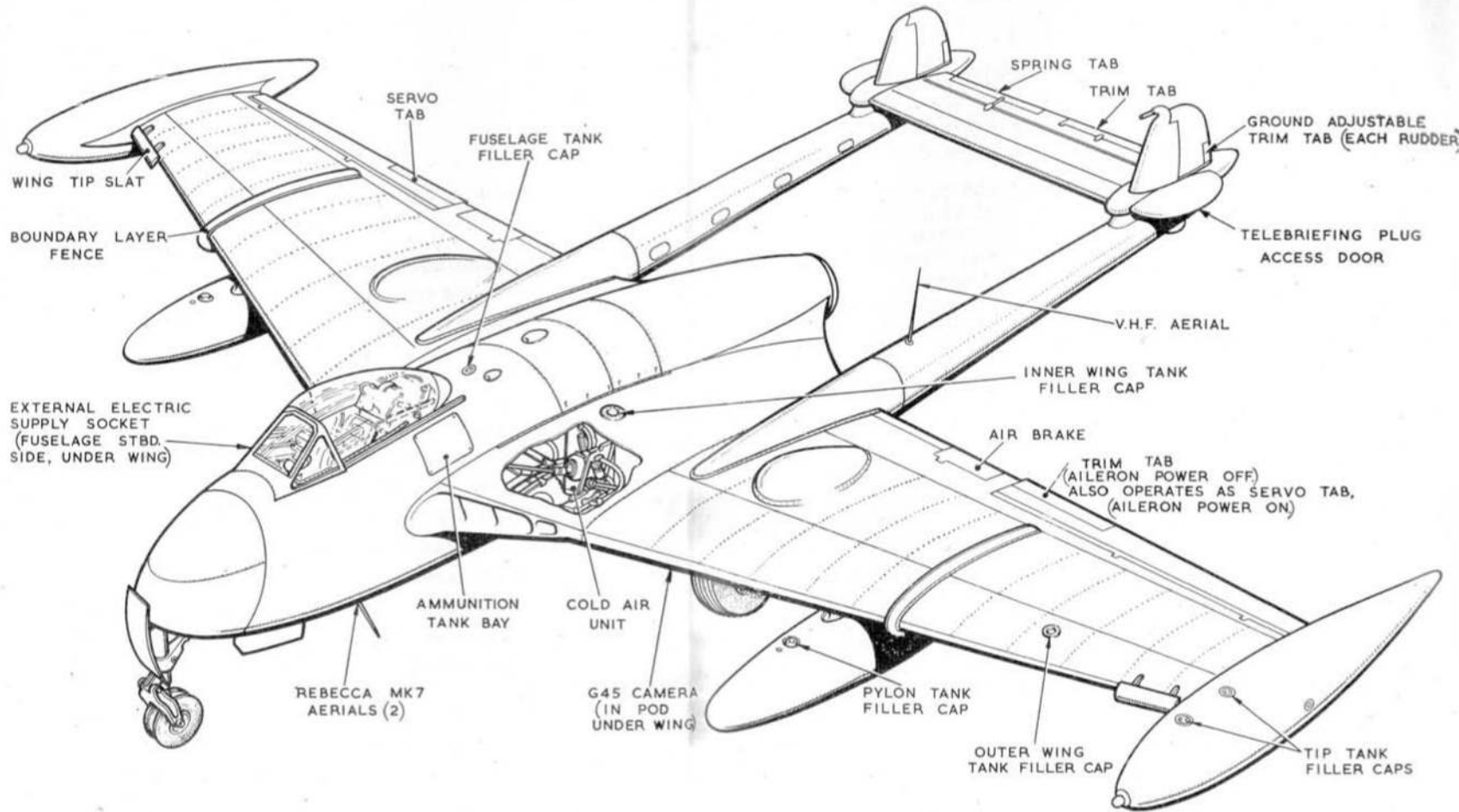
Frontispiece	1
Main fuel system	10
Wing and pylon tank fuel system	11
Hydraulic system	19
Aileron booster jack operation	21
Flying controls locking gear	24
Ejection seat Mk. 2F	28
Cockpit pressurisation and heating	32

PART I—DESCRIPTIVE

	<i>Para.</i>
Introduction	1
FUEL SYSTEM	
Tanks	2
Contents gauge	3
Transfer system and indicators	4
Feed to the engine	5
Controls	6

ENGINE CONTROLS AND SYSTEMS

Throttle control	7
Engine starting system	8
Relighting control	9
Oil system	10
Engine fire warning light and extinguishers	11
Engine instruments	12



SPAN: 41ft. 8ins. LENGTH: 33ft 0ins. HEIGHT: 6ft 8ins.

VENOM FB Mk.4

MAIN SERVICES	Para.
Electrical system	13
Pneumatic system	14
Hydraulic system	15
POWERED AILERONS AND CONTROLS	
General	16
Controls and indicators	17
Aileron feel and trim	18
OTHER AIRCRAFT CONTROLS	
Elevator and rudder controls	19
Flying controls locking gear	20
Undercarriage	21
Flaps	22
Airbrakes	23
Wheel brakes	24
Flight instruments	25
GENERAL EQUIPMENT AND CONTROLS	
Access to cockpit	26
Ejection seat Mk. 2F	27
Hood operation	28
Cockpit lighting	29
Oxygen system and pressure-breathing equipment	30
Emergency oxygen	31
Cockpit air conditioning	32
Windscreen de-icing	33
Anti-G equipment	34
Emergency equipment	35
External lighting	36
SIGNALS EQUIPMENT	
Wireless installation	37
ARMAMENT EQUIPMENT AND CONTROLS	
Guns	38
Gunsight	39
Cameras	40
R.P. and bombs	41
Light series bomb carrier	42
Bomb jettisoning	43

	Para.
PART II—LIMITATIONS	
Engine limitations—Ghost Mk. 103	44
Flying limitations	45
PART III—MANAGEMENT OF SYSTEMS AND USE OF EQUIPMENT	
Management of the fuel system	46
Engine handling	47
Management of the pressurising and demisting systems	48
Management of the powered ailerons	49
Management of the electrical system	50
Use of ejection equipment	51
PART IV—HANDLING	
STARTING, TAXYING AND TAKE-OFF	
External checks	52
Cockpit and pre-start checks	53
Starting the engine	54
Checks after starting	55
Taxying	56
Checks before take-off	57
Take-off	58
HANDLING IN FLIGHT	
Climbing	59
Flying controls	60
Flying at aft C.G.	61
Flying at reduced airspeed	62
Flying with the hood open	63
Flying in turbulent conditions	64
Stalling	65
Spinning	66
High speed flying	67
Aerobatics	68
CIRCUIT PROCEDURE AND LANDING	
Circuit procedure	69
Landing	70
Landing with one full tip tank	71
Instrument approach	72
Flapless landing	73
Checks after landing	74
Shut-down procedure	75

FLYING IN MANUAL

Selecting manual	..	..	..	..	..	76
Flying in manual	..	..	..	..	..	77
Landing in manual	..	..	..	..	..	78
Reselecting power	..	..	..	..	..	79

*Para.***PART V—TARGET TOWING**

Introduction	..	..	..	..	..	80
Controls	..	..	..	..	..	81
Performance	..	..	..	..	..	82
Normal handling	..	..	..	..	..	83
Emergency handling	..	..	..	..	..	84

PART VI—EMERGENCY HANDLING

Engine failure and flame-out	..	..	..	..	..	85
Relighting	..	..	..	..	..	86
Action in the event of engine fire	..	..	..	..	..	87
Hydraulic system failure	..	..	..	..	..	88
Electrical failure	..	..	..	..	..	89
Loss of cockpit pressure at high altitudes	..	..	..	..	..	90
Hood jettisoning	..	..	..	..	..	91
Drop tank and bomb jettisoning	..	..	..	..	..	92
Forced landing	..	..	..	..	..	93
Abandoning the aircraft	..	..	..	..	..	94
Ditching	..	..	..	..	..	95

PART VII—OPERATING DATA

Loading and C.G. data	..	..	..	..	..	96
Pressure error corrections	..	..	..	..	..	97
Take-off distances	..	..	..	..	..	98
Fuel consumptions	..	..	..	..	..	99
Flight planning data	..	..	..	..	..	100

PART VIII—ILLUSTRATIONS

Cockpit—Port side	..	..	..	..	..	<i>Fig.</i> 1
Cockpit—Forward view	..	..	..	..	..	2
Cockpit—Starboard side	..	..	..	..	..	3

This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

