

Restricted

A.P.4744B-A.N.

AIRCREW NOTES
BUCCANEER S MK.2

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 thus ◀.....▶ to show the amount of amended text and thus ▶◀ to show where text has been deleted.

The number of the latest Amendment List affecting a page appears at the bottom of the page and any triangles therefore on the page refer to this amendment list. However if a page is issued in a revised form, or consists of completely new text, the triangles do not appear.

If a manuscript amendment is called for in an Amendment List the number of the Amendment List should be noted in the margin adjacent to the amended text.

Incorporation of an Amendment List must be certified below, and the Amendment List instruction sheet inserted at the end of the book.

Amendment List No.	Date of Incorporation	Signature	Amendment List No.	Date of Incorporation	Signature
1	12/8/66	R. B. Bates	7	10/10/69	M. Pamy
2	24/5/67	M. Pamy	8	8/10/70	B. Piper
3	15/12/67	M. Pamy	9	21/1/71	B. Piper
4	12/8/68	M. Pamy	10	30-6-72	D. W. Richard
5	16/12/68	R. B. Bates	11	25.10.73	C. D. Pamy
6	8/7/69	M. Pamy	12		

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

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December, 1965
(Amended by AL7)

AP.4744B-AN

AIRCREW NOTES

BUCCANEER S. Mk. 2

BY COMMAND OF THE DEFENCE COUNCIL

L. T. Dunnett.

(Ministry of Defence)

Prepared by the Ministry of Technology

RESTRICTED

(AL7)

NOTES TO USERS

1. This Book is divided by marker cards, as follows:

Preliminary Matter	Part 3. Handling
Part 1. Description and Management of Systems	Part 4. Index of Emergencies
Part 2. Limitations	Part 5. Illustrations

2. The limitations quoted in Part 2 are mandatory and are not to be exceeded except in an emergency. The contents of the remainder of the publication are mainly advisory but instructions containing the word "must" are also mandatory.

3. Amendment Lists will be issued as necessary and each amendment list instruction sheet will state the main purpose of the amendment and will include a list of modifications and Special Flying Instructions covered. The list of effective pages will also be updated at each amendment. New or amended matter of importance will be indicated by triangles in the text thus: ◀.....▶ to show the extent of amended text and thus: ▶◀ to show where text has been deleted. The number of the amendment list by which a sheet was initially issued, or re-issued, will appear at the bottom of the odd-numbered pages and any triangles on either page forming a sheet will, therefore, refer to that amendment list. However, when a new chapter is issued with an amendment list, or an existing chapter is completely revised, this fact will be noted within the heading of the chapter and the triangles will not appear on each page.

4. The following conventions are observed throughout this Book.

- Words in large capital letters in the text indicate the actual markings on the controls concerned, small capital letters are used when the initial letters of words form an abbreviation.
- Unless otherwise stated all airspeeds, Mach numbers and accelerations quoted are indicated values.
- WARNINGS are inserted only when the serious consequences of not following a certain procedure might otherwise be overlooked.
- Information which requires to be emphasised is printed in italics.
- NOTES are inserted to clarify the reason for a procedure or to give information which, while not essential to the understanding of the subject, is useful to the reader.

5. Modification numbers are only referred to in the text when it is necessary to differentiate between pre- and post-mod. states. For ease of reference, a list of the modifications mentioned in the text is included in these preliminary pages, with a cross reference to the location in the text of the modification details.

6. The Flight Reference Cards (AP.101B-1202-14) are issued separately from this Book and are subject to separate amendment procedure, but they are a complementary part of this Book and reference is made to them where necessary.

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

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Buccaneer S. Mk. 2

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INTRODUCTION

1. The Buccaneer S.Mk. 2 aircraft is a low-level, long range strike aircraft, powered by two axial-flow, by-pass turbo-jet engines. Two crew members, Pilot and Observer, are in tandem. Fully-powered flying controls are operated by a duplicated hydraulic system which is entirely separate from a General Services system, although provision is made for supplying the flying controls with General Services hydraulic pressure if the need arises. An autopilot system provides continuous autostabilisation facilities and heading, Mach and height holds. Fire warning and failure of certain essential services are indicated on a standard warning panel.

2. Fuel is carried internally in eight tanks and provision is made for carrying additional fuel in wing slipper tanks and in a tank in the bomb bay. Provision is made for flight refuelling in both the receiver and tanker role.

3. Armament stores can be carried in the bomb bay and under each wing, and cameras ►◄ are carried in the bomb bay in the photographic role.

4. For descriptive purposes in these Notes, the controls and instruments are arranged in the following main groups:—

Instrument panel	From wall to wall across the front of the pilot's cockpit. An additional sub (port control) panel is to the left of the instrument panel.
Port and starboard consoles		A shelf, in each cockpit running fore and aft.
Port and starboard walls	Above their respective consoles.
Additional sub panels are:		
Standby control panel	On the starboard wall of the pilot's cockpit, forward.
Switch panel	On the starboard wall of the pilot's cockpit.

LIST OF ASSOCIATED AIR PUBLICATIONS

<i>Title</i>	<i>AP</i>
Air cameras and accessories	1355C
Aircraft communication control systems— ARI 23099	2487AB
Aircraft fuel and oil system components ...	4737A
Aircraft hydraulic equipment—Dowty-Rotol	1803U
Aircraft hydraulic equipment—Dunlop ...	1803S
Aircraft hydraulic equipment—Electro Hydraulics	1803F
Aircraft hydraulic equipment—Fairey ...	1803R
Aircraft pressurization and air conditioning equipment	4340
Aircraft pressure fuelling equipment ...	4511
◀ Aircraft servicing manual ... 101B-1202-1A and B ▶	
Aircraft surface finishes and markings ...	2656A
Aircraft undercarriage equipment—Dowty- Rotol	1803V
Armament installation in naval aircraft— Buccaneer	(N) 1023 (13)
ARI 5848	2887N
ARI 5880	2890SA
ARI 5930	4822B
ARI 18107	2534N
ARI 18120/4	2531L
ARI 18124	2531J
ARI 18165	4817C
ARI 23057	2531N
ARI 23061	2533J
ARI 23090	2535F
Ejection seats and escape equipment ...	4288 (Naval)
Electrical manual—general	4343
Electrical manual—generators and batteries	4343A
Electrical manual—control and distribution equipment	4343B
Electrical manual—switches, cables, wiring and accessories	4343C
Electrical manual—rotary consumer equip- ment	4343D

<i>Title</i>	<i>AP</i>
Electrical manual—static consumer equipment	4343E
Electrical manual—servicing equipment ...	4343S
Electrical manual—special to aircraft type servicing equipment	4343V
Electrical manual—armament consumer equipment	4343X
Explosives regulations	2608A
Feel simulator control units and jacks—Hobson	4604Z
Fire prevention and fire extinguishing equipment	957C
Hydraulic constant speed drives—English Electric	4670A
Hydraulic servicing trolleys	2306B
Instrument manual—general instruments ...	1275A
Instrument manual—navigation instruments	1275B
Instrument manual—oxygen breathing and charging equipment	1275G
Instrument manual—calibration and test equipment	1275T
Integrated flight instrument and control systems	4685
Integrated flight instrument and control systems—Buccaneer	4685B
Lifting equipment and haulage accessories...	2817A
LP air starter trolleys and airborne pods ...	4677A & B
Manual of aircraft weight, balance and loading	4747A
Naval aircraft armament equipment ...	(N)1024
PFCU—Boulton Paul	4603F
PFCU test rigs—Buccaneer	4638D
Pneumatic equipment—Dunlop	4303B
Pneumatic equipment—Hymatic	4303C
Pneumatic equipment—Teddington ...	4303E
Pneumatic equipment—miscellaneous ...	4303Z

<i>Title</i>	<i>AP</i>
Power cartridges, detonators and fire protection equipment	1661F
Radiators, oil coolers and other heat transfer equipment	2850A
RAF engineering—general engineering ...	1464B
RAF engineering—aircraft	1464D
◀Refuelling in flight equipment ...	106E-0401-1▶
Rocket installations, sighting and ammunition	2802A
Spey ECU Mk. 10101	4929A
Starter ignition (booster coils) and hand starting magnetos	1374E
Strike sight	4875A
Turbo-starters for aero-engines—Rotax ...	1181C
Wheels, tyres and brakes	2337

LIST OF MODIFICATION NUMBERS MENTIONED IN THE TEXT

<i>Mod. No.</i>	<i>Brief description</i>	<i>Location in text of Mod. details Pt. Ch. Para.</i>
630	Napier ice detector	I 8 2
951	Bullpup adaptive control	I 16 54
1045	Increased rudder trim	I 9 5(a)
1105	Provision for 600 lb store	I 16 39-40
1121	LP overspeed warning	I 5 3 17 18C
1123	Reduced tailplane trim	I 9 6(a)
1125	Increased airbrakes jack stroke	II 3 10
1135	Observer's control of UHF	I 14 6(c)
1136	Simultaneous operation of cameras and armament	I 16 50 & 53 I 17 3
1143	Multiple stores carriers	I 16 25
1157	Provision for Sidewinder	I 16 57
1162	Rate of pitch indicator	I 10 39
1177	Re-marking rudder trim indicator	I 9 5(c)
1178	Air-to-air refuelling pod hydraulic pres- sure indicator	I 4A 2
1188	Provision for Martel	I 5 19(b) 16 1
1190	Improved Weapons system	I 5 19(b) 16 1
1198	Stowage for seat-pan firing handle safety pin	I 13 8
1216	Yaw damper transferred to port busbar	I 1 20
1224	Revised top temperature amplifier	I 5 7(d)
1252	OR mounting for stop watches	I 12 9
1253	Intro. ADD lights	I 10 38 I 11 9
1257	Mod. to auto-relights	I 5 19(b) NOTE
1258	Intro. fittings for Duvall tape recorder	I 14 10A and 12A
1277	Uses reject button to cancel cameras	I 16 35 I 17 3
1279	uc light dimming	I 11 2(c)
1283	Deletes BRSLs from circuit protection relays	I 16 24
1287	Autopilot computer changes	I 9 11(b)
1291	Relabels release indicator light	I 16 33

LIST OF MODIFICATION NUMBERS MENTIONED IN THE TEXT—continued

Mod. No.	Brief description	Location in text of Mod. details Pt. Ch. Para.
1314	Playback facility for mod. 5209	1 14 10A 12A
1513	Tacan with offsets and air-to-air ranging	1 14 11
5191	Fairing for port tank	III 2 11(d)
5192	Fairing for starboard tank	III 2 11(d)
5193	Modified underwing tanks	III 2 11(d)
5208	Single-shot facility for side oblique cameras	1 17 3
5209	Duvall tape recorder	1 14 10A
ES		
3209	Seat-pan firing handle safety pin in lieu of safety lock	I 13 2
Spey 2187 or 2214	Change in IGV movement... ..	1 5 7(d) 10(c)
2725	Revised oil pressure	I 5 14(c)
3119	Revised TGT controller	I 5 7(d)
NSM		
3023	Alteration to camera operating circuits (pre-mod 1136)	1 17 3
3039	Bang-Bang Bullpup control	1 16 54
◀3061	Modified stores release sequence... ..	1 16 26(b)▶