

MS0009 Bagshaw collection

Collection of material donated by Mr RP Bagshaw

Being papers and photographs of his father Mr Peter Bagshaw

Employed by AVRO Hawker Siddeley and British Aerospace

In engine systems design 1955-1983

(Related to Orrell collection)

1. Photographs and cuttings

1/1 1 x envelope 38 photographs of Lancaster 1 prototype taken April 1940 internal details, equipment, positions, etc.

1/2 1 x cutting Oldham Evening Chronicle, 14<sup>th</sup> August 1973, "Grounded....Wings Of Past Glories", re RAF museum.

1/3 1 x cutting Oldham Evening Chronicle, 14<sup>th</sup> August 1973, "Chronicle bombed", re mock- bombing by RAF Vulcans on Oldham.

1/4 1 x page Daily Express "Parachutist jumps 2,000 ft to death", 31<sup>st</sup> May 1935, re death of parachutist Ivor Price at Woodford.

1/5 1 x page Manchester Evening News, 31<sup>st</sup> May 1935, "Circus Of The Clouds Must Go On Despite Parachute Tragedy".

1/6 1 x page Daily Mail, 31<sup>st</sup> May 1935 "Parachutist Leaps To Death".

2. Folder On Gloster Aircraft

2/1 2 x adverts for Gloster Gorcock Photostats from "The Aeroplane", 7<sup>th</sup> September 1927.

2/2 1 x page with photograph of Gloster Guan Photostat from "The Aeroplane", 16<sup>th</sup> November 1927.

2/3 1 x page with photograph and specifications of Gloster Guan. Photostat from "The Aeroplane", 16<sup>th</sup> November 1927.

2/4 1 x page article on Napier Lion Engines Photostat from "The Aeroplane", 6<sup>th</sup> July 1927.

2/5 1 x article 'Mars to Javelin' on Gloster aircraft. Photostat from "Flight", 27<sup>th</sup> May 1955 (3 sheets).

2/6 2 x adverts for Gloster Gorcock (stuck together) Photostats from "The Aeroplane", 15<sup>th</sup> December 1926 (with Lion Engine), 21<sup>st</sup> July 1926.

2/7 1 x 2" sheet advert for Gloster aircraft slung under R-33. Photostat from the aeroplane, 13<sup>th</sup> April 1927.

2/8 1 x modeller's drawing 3-view Gloster Gorcock.

2/9 1 x plan for flying scale free flight power model of Gloster Gamecock II, The Aeromodeller Plans Service + tracings, templates.

2/10 1 x article on model PAW19-D 3.1cc engine (2sheets). Photostat "Model Aircraft", November 1961 (2 copies second sheet)

2/11 1 x Photostat of radial engine drawing.

### 3 Colour Photos From "Flight"

3/1 1 x Avro 504K E3404 Shuttleworth.

3/2 1 x Fokker E111 Monoplane.

3/3 1 x Hawker Sea Fury FB.11 TF956 FAAM Historic Flight.

3/4 1 x Supermarine Spitfire V6 AB.910 BBMF.

3/5 1 x Shorts Solent C-ANAJ.

### 4 Fleet Air Arm Museum Pictures (from calendar)

4/1 1 x Fairey Swordfish LS326 FAAM Historic Flight.

4/2 1 x Fairey Albacore BF759.

4/3 1 x Fairey Firefly Mk V LB371 + Sea Fury FBII TF956 FAAM Historic Flight.

4/4 1 x HS Buccaneer S2 + 2MD Phantoms F4K's.

4/5 1 x Westland Sea King HAS 1 XV667.

3/6 1 x Westland Wessex HU Mark 5 on HMS Fearless.

5      Technical Manuals/documents etc.

5/1    1 x photo booklet Armstrong Siddeley Motors Ltd, "Aircraft Engines" catalogue, July 1920 + negatives.

5/2    1 x booklet 'Avro On The Airlift' Avro aircraft in Berlin airlift.

5/3    1 x brochure 'Avro Athena Advanced Trainer' + 4 photographs of Athena T Mk2 VW891 fixed to inside cover.

5/4    1 x Avro 'Technical Service Bulletin' folder – various bulletins, April/May 49 (no 37) – June 1956 (72).

5/5    1 x Avro Lancastrian brochure, photos, drawings etc.

5/6    1 x Programme of design office work for prototype aircraft Avro type 696 (later Shackleton)

5/7    5 x pages of Avro 748 arrangement for Aerolineas Argentinas.

5/8    1 x 'Feederline Transport the Avro 19' brochure.

5/9    1 x 'Avro XIX 2 Cheetah XV Engines' brochure, drawings, photos etc.

5/10   1 x Avro 'IR Publication 165 ... AV77 Turret' brochure.

5/11   1 x 'Hawker Siddeley Harrier' brochure 1972.

5/12   1 x 'LTW.51 Introduction to inertial navigation', March 1969 Litton Industries.

5/13   1 Folder containing:

1 x internal office memorandum.

1 x 'Public Ownership of the Aircraft Industry Consultative Document', January 1975.

1 x flight report for Autocrat G-AJRC 13<sup>th</sup> August 1961, 2 sheets.

1 x 2-view drawing of internal arrangement of Nimrod MR1.

1 brochure Hawker Siddeley Group 'Aircraft Engines'.

6      Envelope of Photos

6/1    1 x pocket 'Avro' logo on.

6/2    1 x photo Avro Tudor Prototype G-AAKT 1929.

- 6/3 1 x Gurney ring from Avro 605.
- 6/4 1 x photo Avro 5 – Wilson Airways, Kenya VP-KAE Airborne (early 1930s).
- 6/5 1 x promotional photo/poster for Avro 5.
- 6/6 3 x pictures base frame of Avro Avian.
- 6/7 2 x pictures base frame and engine of Avro Avian.
- 6/8 1 x picture base frame and engine close up on engine/seats of Avian.
- 6/9 1 x promotional photo/poster for Avro 10.
- 6/10 1 x photo cockpit panel Avro 10, 1929.
- 6/11 1 x photo Avro 10 at Woodford circa 1929-1936, LHS rear.
- 6/12 1 x photo Avro 10 at Woodford circa 1929-1936, LHS rear.
- 6/13 1 x photo Avro 10 + Avian construction, Newton Heath 1929.
- 6/14 1 x photo Avro 10 fuselage construction, Newton Heath 1929
- 6/15 1 x photo Avro 10 wing construction, Newton Heath 1929.
- 6/16 1 x photo Avro 10 wing construction, Newton Heath 1929.
- 6/17 1 x photo Avro 10 wing + propeller construction, Newton Heath.
- 6/18 1 x photo Avro 10 wing construction, Newton Heath, 1929-1930.
- 6/19 1 x photo Avro 10 fuselage construction, Newton Heath, 1929-1930.
- 6/20 1 x photo Avro 10 front engine subframe assembly, NH
- 6/21 1 x photo Avro 10 fuselage front-view, 1929.
- 6/22 1 x photo Avro 10 fuselage, RHS view, 1929
- 6/23 1 x photo Avro 10 construction, NH
- 6/24 1 x photo Avro 10 fuselage construction, NH.
- 6/25 1 x photo Avro 10 wings construction (canvassed), NH, c1929.
- 6/26 1 x photo Avro 10 wings construction, NH, c1929.
- 6/27 1 x photo Avro 10 fuselage NH, c1929.
- 6/28 1 x photo Avro 10, VH-UMI Woodford, 1929 RHS

- 6/29 1 x photo Avro 10 construction, engine fitted, Newton Heath c1929.
- 6/30 2 x photos Avro Avian IV Cirrus III, G-AACV Woodford, 1928-1929, LHS
- 6/31 1 x photo Avro Avian IV Cirrus III, G-AACV Woodford, 1928-1929, LHS rear.
- 6/32 1 x photo Avro Avian IV Cirrus III, G-AACV Woodford, 1928-1929, LHS front.
- 6/33 2 x photos Avro Avian IV Cirrus III, G-AACV Woodford, 1928-1929, LHS front
- 6/34 3 x photos Avro Avian IV Cirrus III, G-AACV Woodford, 1928-1929, RHS front, showing engine
- 6/35 1 x photo engine of Avro Genet II Avian.
- 6/36 1 x photo Avro Avian III Cirrus II Woodford.
- 6/37 1 x photo Avro Avian IIIA, G-EBYP/G, Woodford, LHS.
- 6/38 1 x photo Genet II Avro Avian IV G-AACF, Woodford, LHS.
- 6/39 2 x photos Avro Avian IV G-AABX, Barton, 1929-1930
- 6/40 1 x photo Avian IV Cirrus III G\_AAEC, airborne.
- 6/41 1 x photo, Avian IIIA for US, number 392, LHS with film star Lya de Putti in front.
- 6/42 1 x photo Avian engine/frame.
- 6/43 1 x photo Avro Avian IV G-AABX 'Comète' Barton.
- 6/44 1 x photo, 1<sup>st</sup> Avro Type 619 'Five' VP-KAE, Woodford, LHS front.
- 6/45 1 x photo Avro Avian IV Genet Major or Genet II.
- 6/46 1 x photo Genet engine in Avro Avian (nose and propeller only visible).
- 6/47 1 x photo Leaf-spring tail skid of Avian.
- 6/48 1 x photo Genet II Avro Avian II engine.
- 6/49 1 x photo of Avian IV drawing with survey camera.
- 6/50 1 x photo Avro Avian IV G-AACF Genet II or Genet Major, Woodford
- 6/51 1 x photo unidentified pieces of metal fuselage.

7     Other Photos

- 7/1    1 x photo RAe.S (Manchester branch) 1976 Lecture on aerial photography, Sales Centre conference room, Woodford.
- 7/2    1 x photo HS146 rear fuselage, Tailplane Mock-Up at Woodford at time of project suspension.
- 7/3    1 x photo Avro design office at Chadderton, 1959-1960.
- 7/4    1 x photo HS (Avro Whitworth Division) main design office, Greengate, Middleton, 1964 summer.
- 7/5    1 x photo Avro 504R in 'Gosport', G-EBRH, airborne, front LHS, 22<sup>nd</sup> December 1926.
- 7/6    1 x photo Avro 707B VX790, airborne , overhead.
- 7/7    1 x photo Avro 748 G-ARMV Farnborough, 1961, nose LMS
- 7/8    1 x photo Avro 748 G-AVRO airborne, LHS/overhead from calendar?
- 7/9    1 x photo (colour) Avro 748 G-APZV airborne, LHS/overhead.
- 7/10   1 x photo (colour) 2 Avro 748s (1<sup>st</sup> prototype , Blue) + G-ARAY (2<sup>nd</sup> prototype).
- 7/11   1 x photo Avro 19 G-AGLB, LHS.
- 7/12   1 x photo Avro Anson 720 VS504 Navy Trainer airborne, LHS/overhead .
- 7/13   1 x photo Avro Anson 720 VS504 Navy Trainer airborne, underside.
- 7/14   1 x photo engineer inside Ashton aircraft.
- 7/15   2 x photos Avro Ashton 1 WB490, c1950, airborne, LHS overhead.
- 7/16   1 x sheet of 4 photos - views of Avro Ashton Mark I, WB490 – front LHS, front 3/4, rear 3/4
- 7/17   1 x photo 1<sup>st</sup> Avro Ashton WB490 LHS (+ towing tractor), 1950. Woodford.
- 7/18   1 x photo 1<sup>st</sup> Avro Ashton WB490 front 3/4, Woodford September 1950.
- 7/19   1 x photo 1<sup>st</sup> Avro Ashton WB490 airborne, underside 1950-1951.
- 7/20   1 x photo 1<sup>st</sup> Avro Ashton WB490 airborne, underside RHS, 1952,
- 7/21   1 x photo 1st Avro Ashton WB490 RHS + Lincoln background, September 1950.
- 7/22   1 x photo 1<sup>st</sup> Avro Ashton WB490 landing at RAE Farnborough, 1950.

- 7/23 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Farnborough, 1950 LHS
- 7/24 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, September 1950, rear  $\frac{3}{4}$ .
- 7/25 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, airborne, underside LHS, 1950.
- 7/26 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Boscombe Down, LHS
- 7/27 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, September 1950, rear.
- 7/28 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, 1950 + towing tractor, LHS  $\frac{3}{4}$  front.
- 7/29 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, 1950 + towing tractor, LHS
- 7/30 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, 1950 LHS,  $\frac{3}{4}$  front
- 7/31 1 x photo 1<sup>st</sup> Avro Ashton WB490 airborne, overhead/LHS, 1950
- 7/32 2 x photos 1<sup>st</sup> Avro Ashton WB490 airborne, RHS, 1950.
- 7/33 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, 1950, LHS with towing track.
- 7/34 1 x photo 1<sup>st</sup> Avro Ashton WB490 airborne over wing tip, RHS 1950.
- 7/35 1 x photo 1<sup>st</sup> Avro Ashton WB490 at Woodford, 1950, LHS.
- 7/36 1 x photo 1<sup>st</sup> Avro Ashton WB491 (2<sup>nd</sup> A/C) Woodford, 1953, taking off, LHS.
- 7/37 1 x photo 1<sup>st</sup> Avro Ashton WB492 (3<sup>rd</sup> A/C) airborne, bomb Nacelles and ventral, radar, underside.
- 7/38 1 x photo (smaller) of Avro Ashton WB492 (3<sup>rd</sup> A/C) airborne, bomb Nacelles and ventral, radar, underside.
- 7/39 1 x photo 1<sup>st</sup> Avro Ashton WB492 (3<sup>rd</sup> A/C) airborne.
- 7/40 1 x photo 1<sup>st</sup> Avro Ashton WB492 (3<sup>rd</sup> A/C) airborne, bomb Nacelles and ventral, radar, underside from rear, to show High Altitude Experimental Bomb and Nacelles and Ventral/radome, 1951
- 7/41 1 x photo 1<sup>st</sup> Avro Ashton WB493 (4<sup>th</sup> A/C) airborne, front  $\frac{3}{4}$ , 1953.
- 7/42 1 x photo 1<sup>st</sup> Avro Ashton WB493 (4<sup>th</sup> A/C) airborne, underside front  $\frac{3}{4}$ , 1951.
- 7/43 1 x photo 1<sup>st</sup> Avro Ashton WB494 (5<sup>th</sup> A/C) Woodford, 1952, with underwing bomb Nacelles.
- 7/44 1 x photo 1<sup>st</sup> Avro Ashton WE670 (6<sup>th</sup> and last A/C) airborne, Avon RA14 in under belly Nacelles and spray piping for anti-icing trials, LHS.

- 7/45 1 x photo 1<sup>st</sup> Avro Ashton WE670 (6<sup>th</sup> and last A/C) airborne, Avon RA14 in under belly Nacelle and spray piping for anti-icing trials at Rolls Royce, Hucknall, RHS  $\frac{3}{4}$  front.
- 7/46 1 x photo 1<sup>st</sup> Avro Ashton WE670 (6<sup>th</sup> and last A/C) airborne, Avro RA14 in under belly Nacelle + spray piping for anti-icing trials, airborne, underside to show Avian Engine, 1952.
- 7/47 1 x photo Avro Lancastrian G-AGLF, Woodford, 1946, LHS.
- 7/48 1 x photo Avro Shackleton WR970 (Type 696 Mark 3, 1<sup>st</sup> only prototype), 1955, (crashed '56) rear  $\frac{3}{4}$  LHS.
- 7/49 1 x photo Avro Shackleton WR970 (Type 696 Mark 3, 1<sup>st</sup> only prototype), 1955, (crashed '56) LHS.
- 7/50 1 x photo showing engine of Avro Shackleton Mark 3 WR973, with Viper Take-Off Boost engines in rear of outboard Nacelles.
- 7/51 1 x photo Avro Shackleton Mark 3 WL745 front  $\frac{3}{4}$ , RHS.
- 7/52 1 x photo Avro Tudor 1 (2<sup>nd</sup> prod A/C) G-AGRD, Woodford, 1946-1947, RHS.
- 7/53 1 x photo Avro Tudor 2 G-AGRY, Woodford – (Berlin, took part in Air Lift 1947-1948), RHS.
- 7/54 1 x photo Avro Tudor 2 G-AGRY, Woodford – (Berlin, took part in Air Lift 1947-1948) LHS
- 7/55 1 x photo Avro Tudor 2 G-AGRY, Woodford – (Berlin, took part in Air Lift 1947-1948), RHS
- 7/56 1 x photo Avro Tudor Mark IV Merlin for British South American Airways, 'Star Panther', G-AHNJ, November 1947, Woodford, rear view.
- 7/57 1 x photo Avro Tudor Mark IV Merlin for British South American Airways, 'Star Panther', G-AHNJ, November 1947, Woodford  $\frac{3}{4}$  front, LHS.
- 7/58 1 x photo Avro Tudor Mark IV Merlin for British South American Airways, 'Star Panther', G-AHNJ, November 1947, Woodford, LHS.
- 7/59 1 x photo Avro Tudor Mark IV Merlin for British South American Airways, 'Star Panther', G-AHNJ, November 1947, Woodford, front view.
- 7/60 1 x photo Avro Tudor 2 (Research) Merlin VZ366, front  $\frac{3}{4}$  LHS, March 1949.
- 7/61 1 x photo Avro Tudor 2 (Research) Merlin VZ366, rear view, March 1949
- 7/62 1 x photo Avro Tudor 2 (Research) Merlin VZ366, LHS, March 1949



- 7/63 1 x photo Avro Tudor 2 (Research) Merlin VZ366, front, March 1949
- 7/64 1 x photo Avro Tudor 2 (Research) Merlin VZ366, RHS, March 1949.
- 7/65 1 x photo Avro Vulcan 698 engine bay test rig fitted with 2 Rolls Royce Avon RA 3 engines, 1952.
- 7/66 1 x sheet of 2 photos, General Views of AV 698 Air Intake and Engine Bay Rig, 1956
- 7/67 1 x photo Avro Vulcan Mark B2, XH557, 1960, 1<sup>st</sup> Mk 2, with big engine air intake, airborne, RHS.
- 7/68 1 x photo Avro Vulcan 2<sup>nd</sup> Prototype Mark 1 VX777, 1958, touch down at Woodford.
- 7/69 3x sheets (6 photos) of crash of Vulcan, 2nd prototype Mark 1 VX777, front + side in field, bottom air brakes port and starboard, port and starboard underside view.
- 7/70 1 x photo Avro Vulcan 2<sup>nd</sup> Prototype Mark 1 VX777, accident repair crew in 'L' Hanger , Farnborough, 1954.
- 7/71 1 x photo Vulcan B Mark 2 XM649 airborne, overhead, LHS.
- 7/72 1 x photo Avro York 'C' Mark 1 MW!!8 Passenger version, 1944, LHS
- 7/73 1 x photo Fairey Battle K7563, Ringway, 1938.
- 7/74 1 x photo Hamble, 1922, showing Avro E9265 (+E9266?) both concerted from 504Ks + Avro Bison Type 555.
- 7/75 1 x photo HP Victor H2 XL231 airborne 2/3<sup>rd</sup> rear with re-fuelling gear.
- 7/76 1 x photo Vickers Valiant WZ373, showing low loader being aligned with bomb bay.
- 7/77 1 x photo Lancaster cockpit?