

The AMC DH 3 (Aircraft Manufacturing Company & Hardland design 9) bomber was intended to be an evolutionary successor to the highly regraded 2759; 127 feels Royer Registropowere DH 4. Do to the existing and expected demand for Relia Royer Tagles expected to the property of the Property

As with so many Great War aircraft the tale of the D193, Intelf a highly competent design, is intrinsically linked to that of its engine. The BHP engine was put to mass production as the Schilder Desary Pums and nearer constrainty advisored the promised 5000ps, in actual fact its output was only 2500p and, to add insult to injusy, it proved to be staggeringly unreliable. The 5000p BHP engine powered D19 prottings was converted from AMO. Emil Collection 14, ASS99 and first file in July 1917. The first production D19, Saddeely-Dassay powered AMC built COS99, took to the air in November 1917 and it was almost immediately clear that, because of the engine, performance was not going to unpuss that of the D14A. Novemberholes, the D149 and artsoyl in many positions with 11 different manufacturers, a was the flawed Pums engine, menting that feltials bomber equal-tons would now have to make do with it... or nothing at all. Adhough manufacturers are manufactured to the D144 and the D147 but the State of the D144 and the D147 but the State of D147 but

The first units to go into action with the DH 5 were 80, 206 and 211. Squadrons of the newly formed DAF in April 1918 at which time the shortcoming of the Punus against immundately made themselves become. Those valves uponing, cracked optimized and defective attribute on the curburetters lad to netrous engine reliability problems which frequently required a lasty leading in German occupied finally allowed at 10th to earlies a least problem of the comparison of the comparison

Willish ther is list filed controversy about the common colour scheme of PCIO (Protective Covering number 10) for the upper surfaces and CDL (Clear Deped Linear) lower surfaces, there is a great deal of controversy as to what colour PCIO actually was. Made from mixes of yellow coches; incomo deal and impublic gipments in various between those who are had not become thereone, depending on them. Its appears more early, fresh PCIO appeared more clive dash while later mixes and aircraft exposed to the elements its come time would appear more coulty, firsh PCIO appeared more clive dash while later mixes and aircraft exposed to the elements its come time would appear more coulty, firsh PCIO appeared more lower dash while later mixes and aircraft exposed to the elements its come time would appear more coulty, suit and the control of the position of the posi

Richard Alexander 2013

Wingspan:			
42° 48:5/8" (12.94m)	30° 9° (9.37m)	3669lb (1664kg)	111mph (179kph)
No. manufactured:			
Approximately 3900	July 1917 to 1919	230hp Siddeley-Deasy Puma	15500' (4724m)

.303" (7.7mm) Vickers and 1 or 2 .303" (7.7mm) Lewis guns. Up to 460lb (208kg) of bombs.

Windsock Datafile 72, Airco DH9, JM Bruce 1998 - Schedule of Spare Parts for the De Havilland 9 2-Seater Fighter, RAF August 1918 The DH-4/DH9 File, Ray Sturtivant & Gordon Fage, Air Bertain 1999 - The Vintage Avator Ltd - 1914-18 Aviation Heritage Trust Colin Dower - Printed Collections



Choking hazard. Keep small parts and plastic bags away from children. Use glue and paint in a well ventilated area. Always wear protective eyewear when cutting and a protective mask when painting, gluing and sanding. Do not breathe dust from polyurethane resin parts (if included). Beware of sharp edges on metal parts.

Assembly:

Read all the instructions carefully before starting assembly. Use glue intended for plastic models. Before assembly select a marking option and note optional parts required in instructions.

If installing rigging please drill out all location holes with a 0.5mm drill bit to a depth of at least 1mm.

Only use paints suitable for plastic model kitsets.

Decals:

Cut out each decal as required. Soak in warm water for 15 seconds. Slide off backing paper onto gloss painted surface of model. For large decals it is helpful to apply a drop of water to the area they are being applied to. This will make it easier to maneuver them into the correct position.

Please visit our website for additional hints and tips to assist you in getting the best result from your Wingnut Wings model.







Other Side





Photo Etch Part



Choose Do Not Cement Cement For Metal

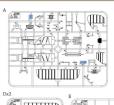




Paint Colour

Brass	X31	54	
Copper	XF6	12	
Gun Metal	X10	27004	
Aluminium	XF16	27001	
Blue - semi gloss	X4	15	15052
Dark Yellow - matt	XF60	83	33440
Rust	XF9	113	30045
Leather - semi gloss	XF52	62	30219
Clear Doped Linen (CDL) - semi gloss	XF55	121	26405
Battleship Grey - matt & semi gloss	XF82	106	35164
PC10 early - semi gloss	XF62	-	34083
PC10 late - semi gloss	XF62(x2) + XF10(x1)	155	-
Light Grey - matt	XF80	147	36492
White - semi gloss	XF2	130	
Dark Wood* - semi gloss	XF68*	98*	30111*
Black - semi gloss	X18	85	
Rubber - matt	XF69	66	35042
Light Wood* - semi gloss	XF78*	93*	30340*
Red - gloss	X7	19	11350
Orange - gloss	X6	18	22246
Light Blue - semi gloss	XF2(x10) + XF18(x1)	34(x10) + 96(x1)	25550

Note: Apply clear varnish to achieve the desired gloss or semi-gloss finish. *See our website hints and tips for painting wood.









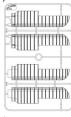








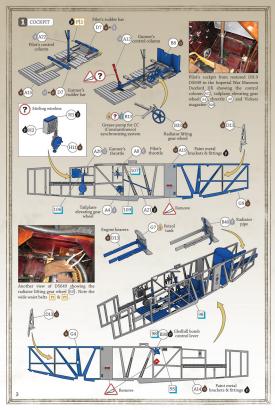


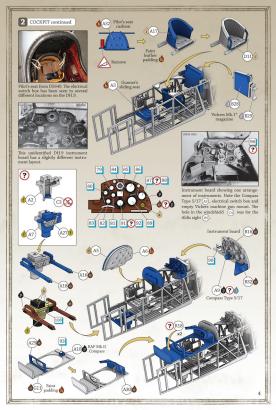


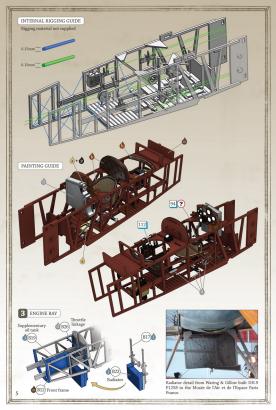


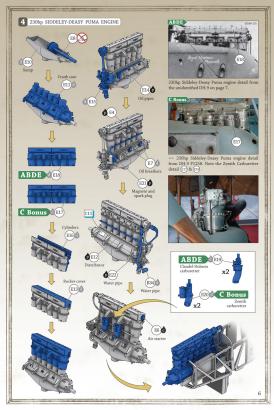


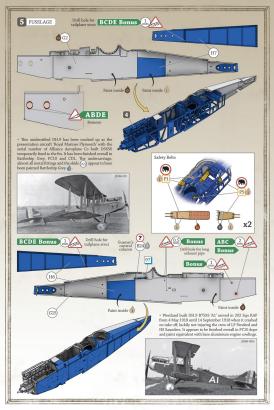


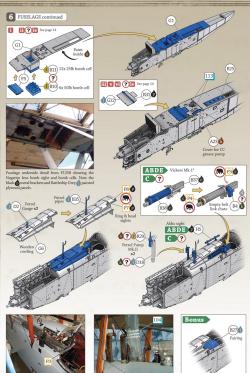








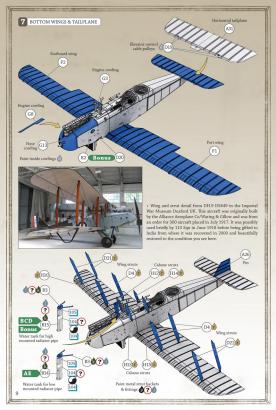




Vickers Mk.1* installation on DH.9 D5649 showing the chute 84 for empty disintegrating belt links and ring P7 & bead P8 sights.





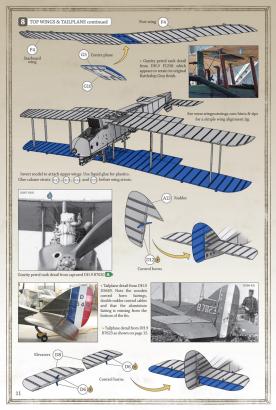


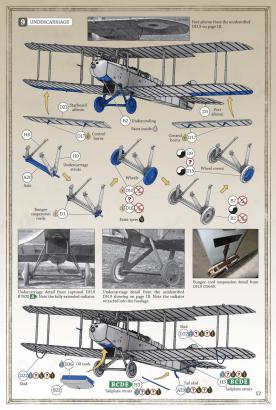


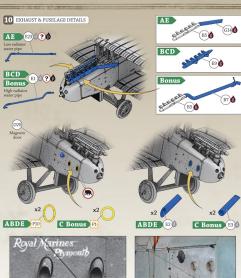














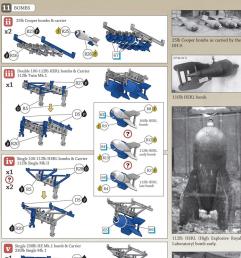




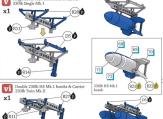
Carburetter intake pipes (E3) + [96] from DH.9 F1258.

> Although almost completely washed out in this print, Alliance built DH.9 D5816 features the presentation inscription "Faridcot No.3" on the nose above the carburetter intake pipes. D5816 was from a production order for 300 DH.9 placed with the Alliance Aeroplane Co/Waring & Gillow Ltd in July 1917. Note the position of the fuselage cockade under the pilot's cockpit opening.





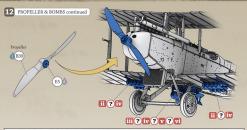




(R14



unidentified and unarmed DH.9. Note the fuselage cockade and cockpit padding.

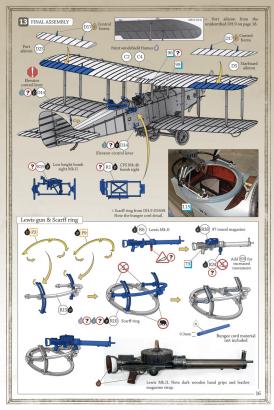


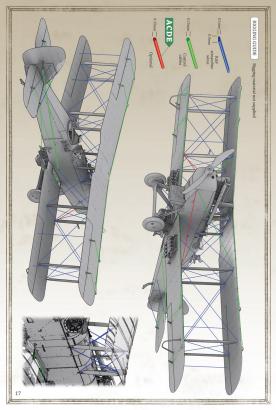


Mann built DH.9 D1651 was the 1st aircraft from an order for 100 DH.9 placed with Mann, Egerton & Co Ltd in late June 1917 and served with 44 TDS Waddington. Note the very small carburetter intake pipes and 'grev wall' tyres.



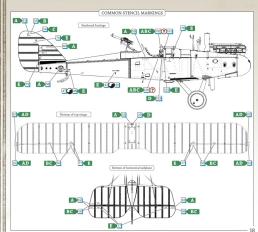
Westland bull: DH/9.87622 T/c 6B Bight 211.5 gan was lost in action on 16 August 1918 after it was reportedly hit by Flak and the engine stopped, forcing the crew of DR Harris (USAs) and W. Bing to district heir camers and force land in this field in neutral Holland where they were interned. 57623 is from a batch of 100 DH 9 ordered in June 1917 which were initially intended to be DH4. Note the position of the fuelsage coclade. The B light piral marking can be seen on the port wheel cover.

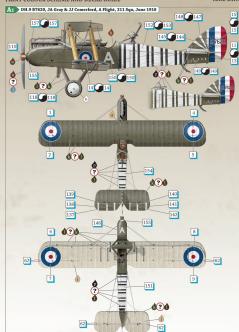






This unidentified DH.9 is fitted with a device for collecting open Ut/clers ammunition and disintegration bet links which, including the colour of the colour of the partially obscure but he training unit. The serial number on the fin is partially obscure with a training which was rebuilt from salvaged parts and served at 11 TDS (Training Depot Station) Old Sarum until late October 1918 when it was crashed, slightly injuring FO Hutton.





Westland built DH 9 87800 was from an order placed in June 1917 for 100 aircraft, originally intended to be DH 4 but changed to DH 9.1 was delivered to the RFC edpect at Down in early March 1918 and cashed later that month. After being repaired it was allocated to 21 15g nR4 the following month. On the afternoon of 27 June 1918 Al Gray and J.1 Comerford were near Bruges when they were hit by Hain afforced down in a Durch field and were interned. Only algibly damaged, 87800 was repaired and later parchased by the Durch as deH483. To recreate deH433 in Durch service paint the coclades orange, apply decide [158] and toxicut hou paint as shown opposite.

Westland built DH.9 B7620 in The Netherlands



DH.9a B7620 features dark and light fuselage bands and light elevator markings. The dark bands do not appear to be a simple repair and it is our contention that these were black and white around the fuselage and solely white on the fin and elevators. Note the unusual position of the fuselage cockade.



Note the fatoric wrapped and doped propelers, stoestoss, cord wrapped around the extended exhaust manifold (3b). Pareidolia assured that the distinctive nose cowling of the DH.9 was frequently painted with facial features [55] & [57].



DILYA BYDJU atter being repainted by the Dutch. The rudder, in and cockades have been overpainted with orange and extra cockades have been painted under the top wing. The serial number under the horizontal tailplane and the letter 'A' on the side of the fuselage have been overpainted in an unknown colour.



The alleron balance cable appears to have been severed resulting in all 4 allerons hanging downwards. Normally the allerons were rigged to droop 1" (25.4mm), which equates to 0.6mm in 1/32 scale, below the trailing edge of the wings with the pilot's control column at neutral. Note the strips on the elevators.



It would also appear that the CDL undersides of the wings have also been overpainted by the new owners, p blue 👊 . The face markings have been retained as has, surprisingly, the A flight letter under the oil tank.





AMC bull: DH 9 GC292 is seen here in service with 144 Sq. in Palentine. CC293 is from an order for 300 DH 9 Jacked 10 September 1973 and sudderedre to 144 Sq. in Maguer 1318. Forein in March 1913 at POT Stall, Egypt, 144 Sq. was initially equipped with shoolere Bz.2 and Rs. 12 before being reequipped with the DH 9 in August 1918. The DH 9 of 144 Sq. saw externise action against Turkink targets up until the Ammittee with Turkey He Armittee Kord Morello 30 October 1918. Following the Armittee the Onder Marchite with Turkey the Armittee the Onder 1918. The DH 9 GZ293 spent much of its time in Salonika with 17 Sqn before being written off in October 1919.



Australian 'Diggers' inspect DH.9 C6293. Note the single 112lb HERL bomb mounted under the fuselage [1], tailplane bracing struts [13] & [14] and style of the carburetter intake pipes.





AMC built D2989 was from an order for 400 DH 9 placed in November 1917 and is seen here at 49 TDS (Training Depot Squadron) in early 1919. The overall dark colour and name the Obster' on the nose makes us believe that D2989 was finished overall in red with white 'rig zag' bands. The Strutus and possibly the top surfaces of the wings and talphane also appear to have been painted red. A month and 'square eyes' have been painted on the nose cowling and the serial number has been repeated under the bottom wings. In this photo D2989 is armed with a Vickers machine gun but in at least one other photos is it dearly unamen.



c Short Bross bullt DH-B D2781 Mr of B High-ZLI Sap is seen here after it landed in The Netherlands after being hit by Anti-Alicardi free over Zeebrugge on 25 July 1918. The free over Zeebrugge on 25 July 1918 he heater all followed to be seen medical attention for his mortally wounded gunner HM Partridge and it is believed that the dramatic fusulege analysis of the dramatic fusulege and the dram



Westland built D7211 was from an order for 100 DH.9 placed in January 1918. It was initially delivered to the RAF in Mudros Greece in May 1918 but does not appear to have been assigned to a Squadron. By early 1919 it had been transferred to the Greek Government, HIMS (Hellen: Kaval Jid restroy) and may have seen some service in the 'Asia Minor Campiagn'. DH.9 D7211 "Spertasi" was reportedly the lead aircraft in a victory celebration Hyover of Constantinople and displayed the colours of the Greek flow on its undersides, which has driven our choice of colour in the illustration above.

DH.9 D7302 "N", RSS Ingram & AW Wyncoll, C Flight, 108 Sqn August 1918 0?0 10 10 43 43 11 159 **d**?d 421 0?4 Paint top wings and apply decals 1,2,4&5 as per A

Berwick built D7302 Th was from an order for 100 DH 5 placed in November 1917 which was cancelled after the 13 0 aircraft were completed. It was delivered to the newly formed 108 Sqn in June-July 1918. On 18 August 1918 RSS Ingram and AW Wincoll were on a bombing mission in D7302 when they were attacked by German fighters and hit by Flak and Ingram was forced to land on the beach at Oostend where they were both made POW.



DH.9 D7302 'N' on the beach at Oostend. Note the C flight marking 'N' repeated under the nose, white outlined bottom wing cockades and how the doped fuselage fabric appears much darker than the painted ply areas.



DH.9 D7302 'N' being manhandled off the beach at Oostend by its German captors. Note the bomb sight on the port side of the fuselage.

Alliance built DH 9 H585 was an inspiral gift aircraft presented to the New Zealand Government in 1921. It was converted to care yas energies by the Camerbury (NZ) Aviation Co Lot as G-NZAD before being returned to government in 1923. In early 1924 it was converted back to the 'near original' condition seen here and given the NZPAF (New Zealand Permanent Air Force's original number 5508 and served until the 1930s when it was excapsed.

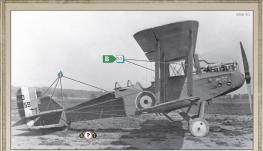


Port rear view of NZPAF DH.9 5636. Note the extended ply rear fuselage, exhaust manifold (ii'), extra magneto access hatch (20), cockade [21], Vickers gun mount fairing (22), lack of Aldis sight (iis) and location of the serial numbers [16] & [18].





Berwick built DH.9 C2183 'II' of 207 Sqn was captured on 11 July 1918 with RA Arnott and HR Whitehead being made POW.
Note the position of the fuselage cockade, various stencils and the bomb release toggle (33) on the side of the fuselage.



AMC built DH.9 D3259 was from a production order for 400 aircraft placed in November 1917, D3259 was the presentation aircraft "Biggar Parish No.4" and served with 211 Sqn from late August 1918 until it crash landed in strong winds on 7 October 1918, the crew of EJ Stevenson and Lt.Wretham we both unhurt.



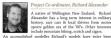
3-D Modelling by Nick Moore

Nick Moore is an industrial design graduate and experienced scale modeller with a longstanding interest in most periods of history. Before entering this project he knew less about WW1 aviation than later periods and was surprised at the innovations achieved during this time. His investigation of WWI aircraft has encouraged further interest in the aircraft of the 'Golden Age' of the

20's and 30's which have particularly beautiful forms The 3D design challenge he found in creating the Wingnut Wings models is adapting the real aircraft to scaled down replicas with the

necessary adjustments for injection moulding, when of course, as a modeller - he would like 100% reality. Nick was at one time a private pilot but never took the controls of a

bi-plane - the oldest plane he was rated in was that classic old tail dragger, the Piper Cub. These days most of Nick's spare time is spent with his young family.



Project Co-ordinator, Richard Alexander

A native of Wellington New Zealand, Richard Alexander has a long term interest in military history, race cars & local drivers from motor sports colden era of the '60's. Other interests include mountain biking, scotch and cigars.

awarded Best Overall in Show at IPMS(NZ) National Conventions and earned him the inaugural TamiyaCon(NZ) Master Modelles award (along with the associated trip to Japan) in 2001. Many of his works are in private collections around the world, though he no longer accepts commissions. Richard has been in the model and hobby industry since 1991 and

brings with him a keen eye for detail and a passion for ensuri our models are enjoyable to build. So if there is anything you don't like about this model, you can blame him.

If you do have comments, requests or suggestions, Richard is contactable at richard@wingnutwings.com



Profile Art by Ronny Bar

Ronny Bar developed a keen interest in airplanes from an early age, living close at the El Palomar Air Force Base in Buenos Aires. He first flew in the back seat of a T-34 Mentor trainer at the age of ten, and was soon drawing airplanes and building models: Spitfires and Messerschmitt first... Camels and

Fokkers later.

He became a successful bass player with a career lasting over 35 years in several Rock bands, recording ten albums (one of them being a National hit selling more than 100,000 copies) and performing countless concerts, TV shows and tours all over Argentina.

Now retired from the R'n'R scene, his interest returned to his early passion: Aviation Artwork. Visiting the WW1 aircraft collection at Hendon focused his already growing interest for that historic period. His artwork is regularly appearing in journals and publications like Windsock Worldwide, Windsock Datafiles, Cross & Cockade and Over the Front.

Visit Ronne's sosheite at: souns ronnelsemrofiles com



Box Art by Steve Anderson

Steve Anderson is an avid historian of military aviation, with a special interest in the many beautiful biplanes and triplanes of World War I. The aircraft and battles of famous World War I aces such as Baron Manfred von Richthofen

tter known as the "Red Baron"). James McCudden. Raoul Lufbery, Ernst Udet, Werner Voss, and other pioneers of dogfighting are among Steve's favorite subjects.

An Artist Fellow of the American Society of Aviation Artists. Steve creates works that reflect scrupulous attention to historically accurate detail, from the colorful markings on the fuselages to the time of day of an actual battle.

Visit Steve's website at: www.anderson-art.com.



32035	1/32 AMC DH.9	Qty
0132007A	A parts	1
0132035B	B parts	1
0132007C	C parts	1
0132035D	D parts	2
132E0020	E parts Puma Engine	1
0132035F	F parts	1
0132035G	G parts	1
0132035H	H parts	1
0132035P	Photo-etched metal parts	1
132R0002	R parts RFC Armaments	2
7132035	Instructions	1
9132035a	Decals	1
9132035Ъ	Decals	1



32028 - 1/32 AMC DH.2



32004 - 1/32 Bristol Fighter



32007 - 1/32 DH.9a 'Ninak'

Also available from www.wingnutwings.com

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