

Johannisthal based Albatros Flugzeugwerke GmbH were responsible for some of the most graceful and effective fighters of the Great War. Their twin gun, semi-monocoque plywood fuselage Albatros D.1, powered by a 160hp Daimler Mercedes D.III engine, arrived at the front in September 1916 and achieved instant air superiority over its main opposition of Nieuport 11 and DH.2 fighters. Followed immediately by the slightly improved D.II and in December 1916 by the much improved D.III, with its V strutted sesqiplane wing greatly influenced by the successful Nieuport fighters. The D.III was more maneuverable than the D.II and its single spar lower half wing afforded greater visibility for the pilot but was also the cause of numerous, frequently fatal, structural failures. Despite much effort this problem was never fully resolved. Nevertheless the D.III remained in production well into late 1917.

Even as the excellent D.III went into production plans were underway for its successor, the Albatros D.V. Retaining the wings of the D.III but with aileron controls routed through the upper wing and with a redesigned fuselage completely oval in section, the D.V was arguably the best looking of all Albatros designs. Unfortunately the D.V inherited the lower wing structural failure problem of the D.III and turned out to not be any real improvement over it performance wise either. Despite this, the Albatros D.V and the D.Va (with aileron controls cables reverted to D.III configuration), were manufactured in greater numbers than any previous German fighter of the war (only surpassed later by the Fokker D.VII, of which Albatros manufactured the great majority).

The Albatros D.V weighed 620kg empty when production commenced in April 1917 but, following strengthening, the empty weight had increased to 680kg before production of the D.Va started in August 1917. While Johannisthal built D.Va remained 680kg throughout production, those ordered from Ostdeutsche Albatros Werke (OAW) in September-October 1917 weighed in at 717kg empty, almost 100kg heavier than the initial D.V. When the Albatros D.V started appearing at the front in May 1917 it was effectively outclassed by the improved SE.5a, Sopwith Camel and SPAD fighters being fielded by the allies at the time. Even after the introduction of the superb Fokker D.VII the Albatros D.V and D.Va could still be found equipping front line Jastas, although most had been relegated to training or home defense duties by the time of the Armistice. Note that these instructions illustrate parts to build Johannisthal built Albatros D.V & D.Va and Ostdeutsche Albatros Werke (OAW) built D.Va. Please make sure you take note of the different parts required for your chosen decal scheme. Any history of this important aircraft here is of necessity very brief, therefore we encourage you to seek out any, or all, of the reference books mentioned below for a more thorough understanding.

WW1 colour schemes are contentious at the best of times and we have done our best to provide what we consider to be accurate painting information for this model. The colourful unit and personal markings applied to the various German fighters of the Great War have attracted more than their fair share of debate over the years and, while we have been as meticulous as we could be, I'm sure some will not find our choices to their liking. Albatros D.V/D.Va fuselages were usually clear varnished resulting in a yellowish plywood colour. The fabric covered wings and tailplane were finished in either of 2 ways, painted (with medium grey green & mauve or dark grey green & lilac on top with light blue below) or covered in pre-printed lozenge camouflage fabric, some of which was almost certainly overpainted with a transparent (brown?) glaze to tone down the vibrant colours. Metal fittings were painted in pale grey-green, as was much of the engine bay. Exterior metal panels and fittings were usually painted in this same pale grey-green colour although some late production D.Va were finished in a darker grey-green colour. There was considerable freedom for German units to apply their own colour schemes to their aircraft with some using drab camouflage paints, usually applied with a 'loofah' type sponge, while others preferred highly visible colours to aid identification at a distance. Additionally individual pilot's markings were also applied in a fashion dictated by the unit commander.

Richard Alexander 2019

| Wingspan:         | Length:   | Max Weight:      | Max Speed:      |
|-------------------|---|------------------|-----------------|
| 9.00m (29° 6")    | 7.33m (24' 0.5")                                | 755kg - 937kg    | 170kph (106mph) |
| No. Manufactured: | Production:                                     | Armame           | ent:            |
| D.V 900/D.Va 1662 | April 1917 – early 1918                         | 2x 7.92mm LMG 08 | 3/15 'Spandau'  |
| Ceiling:          |   | Engine:          |                 |
| 6250m (20500')    | 160-180-200hp Daimler-Mercedes D.III/IIIa/IIIaü |                  |                 |
| 020000000000      | D-6   |                  |                 |

Windsock Datafile 3 Albatros D.V, Ray Rimell, 1987 - Albatros Fighters Windsock Datafile Special, Ray Rimell, 1991
Squadron Signal Albatros Fighters in Action, John F Connors, 1981 - Australian War Memorial Museum, Canberra, Australia
The Vintage Aviator LTD - 1914-18 Aviation Heritage Trust - Private 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. Warning:

Assembly: Read all the instructions carefully before starting assembly. Use glue intended for plastic models.

Assemble metal and resin parts (if included) using Cyanoacrylate (CA) or epoxy glue. 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. To make Rigging:

rigging as simple as possible we recommend using stretchy elastic type material like 'EZ Line' etc and not trying to replicate any turnbuckles.

Painting: Only use paints designed and 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 (not just clear coated plastic). 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.

Hints & Tips: Please visit our website for additional photos, hints and tips to assist you in getting the best result from

your Wingnut Wings model.

Construction Step

Choose

Attention



Remove

Part Number

Do Not Cement



Option



Drill

Decal

Photo Etch Part

Cement For Metal



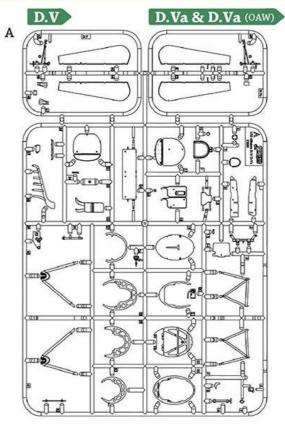
Other Side

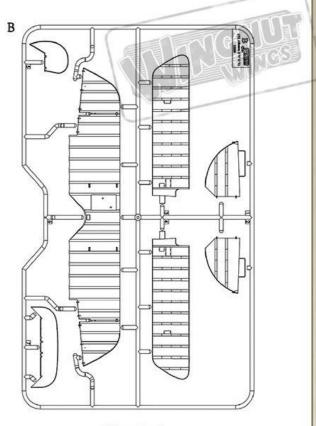


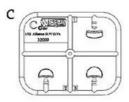
Paint Colour

|   | All colours                    |                              | Humbrol           | Federal Standard |
|---|--------------------------------|------------------------------|-------------------|------------------|
| a | Brass                          | X31                          | 54                |                  |
| ь | Gun Metal                      | X10                          | 27004             |                  |
| c | Aluminium                      | XF16                         | 27001             |                  |
| d | Black - semi gloss             | X18                          | 85                |                  |
| e | Dark Wood* - gloss             | XF68                         | 98                | 30340            |
| f | Leather - semi gloss           | XF52                         | 62                | 30219            |
| g | Light Blue - gloss             | XF2(x10) + XF18(x1)          | 130(x10) + 96(x1) | 25550            |
| h | Chrome Yellow - semi gloss     | XF3(x10) + X6(x1)            | 24                | 33637            |
| i | Light Grey - matt              | XF19                         | 64                | 36463            |
| j | Interior Grey Green            | XF76                         | 240               | 24424            |
| k | Red - semi gloss               | Х7                           | 19                | 31350            |
| 1 | Rust - matt                    | XF9                          | 113               | 20045            |
| m | White - semi gloss             | XF2                          | 130               |                  |
| n | Light Wood* - gloss            | XF59                         | 93                | 30475            |
| 0 | Mauve - semi gloss             | X16(x2) + XF52(x1)           | 68(x5) + 29(x1)   |                  |
| Р | Steel                          | XF56                         | 27003             |                  |
| q | Clear Doped Linen - semi gloss | XF55                         | 148               | 26360            |
| r | Camouflage Green - matt        | XF65                         | 116               | 34159            |
| s | Copper                         | XF6                          | 12                |                  |
| t | Green - gloss                  | X28                          | 208               | 14193            |
| u | Silver                         | XF16(x2) + XF19(x1)          | 11(x1) + 34(x1)   |                  |
| v | Rubber - matt                  | XF69                         | 66                | 35042            |
| w | Medium Grey Green - semi gloss | XF71                         | 78                | 34227            |
| х | Brown Glaze - semi gloss       | X22(x5) + XF52(x1)           | 135(x5) + 29(x1)  |                  |
| у | Lilac - semi gloss             | X16(x1) + XF52(x1) + XF2(x2) | 2                 | 27144            |
| z | Dark Grey Green - semi gloss   | XF65                         | 116               | 34159            |

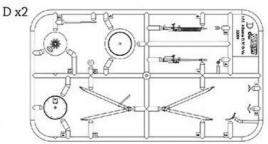
Note: Apply clear varnish to achieve the desired gloss or semi-gloss finish. \*See our website hints and tips for painting wood.

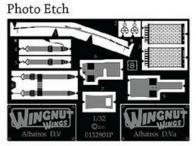


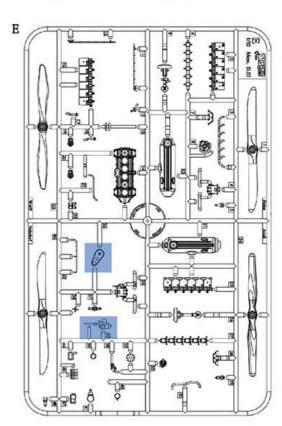




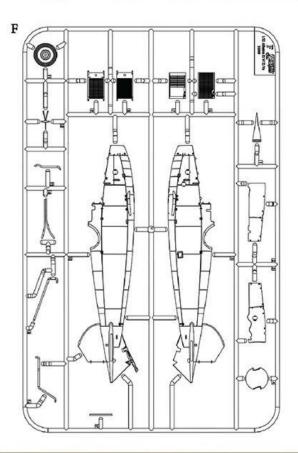


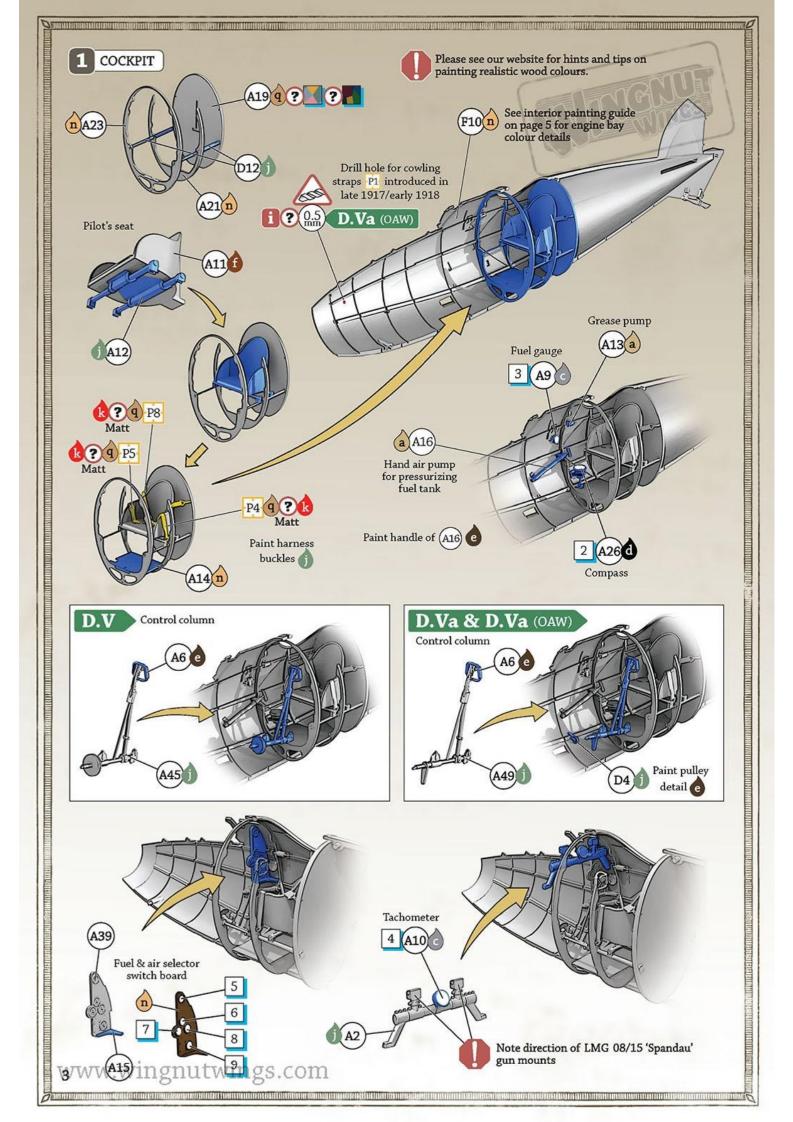


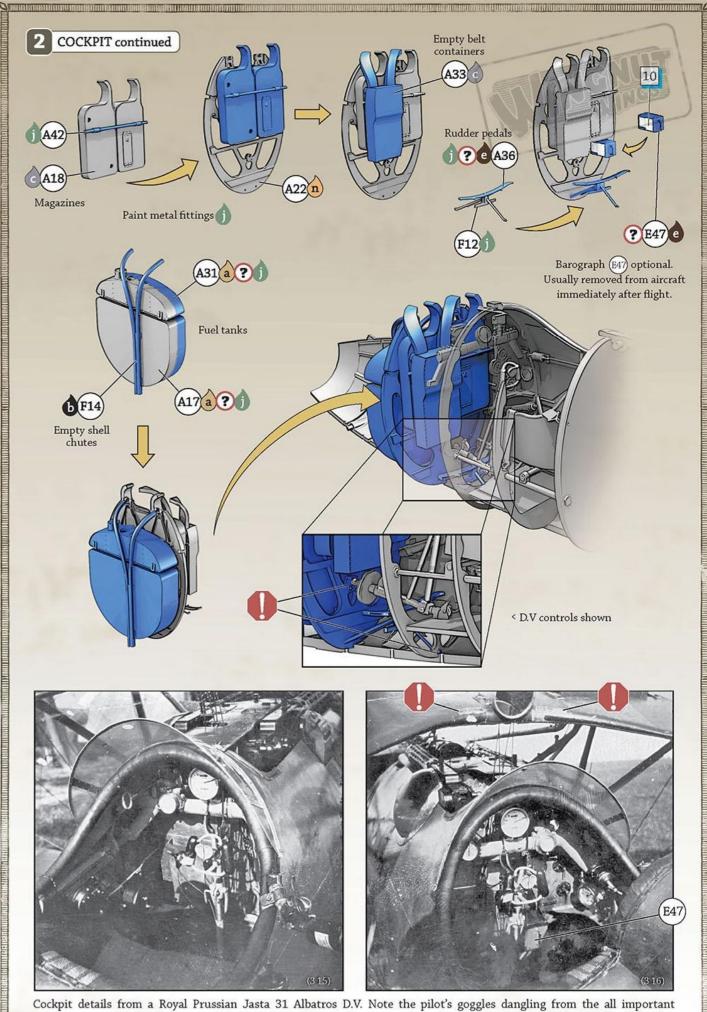




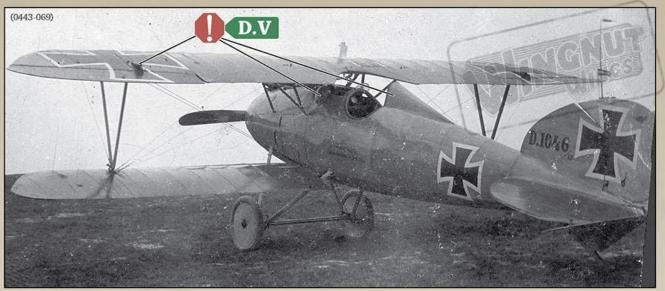








Cockpit details from a Royal Prussian Jasta 31 Albatros D.V. Note the pilot's goggles dangling from the all important tachometer attached to the center of the LMG 08/18 'Spandau' mount, with an altimeter to the left and clock to the right. Also note the barograph (F4) suspended below the instrument board, mirror (E4), D.V specific headrest (F1) & aileron control cables, the Eisfeld flare gun attached to the right of the cockpit and the data plates attached to the rear of the top wing cut out.



Factory fresh very early production Albatros D.V 1146/17 is from the 1st production order for 200 D.V placed in April 1917 (numbers 1000/17 to 1199/17). Note the large D.V headrest, empty ammunition belt chute fairing (A7), aileron control horns & fairings, 2 line weight table painted on the side of the fuselage under the cockpit and lack of cowling retaining straps (P1). The fuselage is varnished plywood, the rudder is unbleached doped linen while the wings and tailplane are finished in medium grey green (17) lilac camouflage paint.



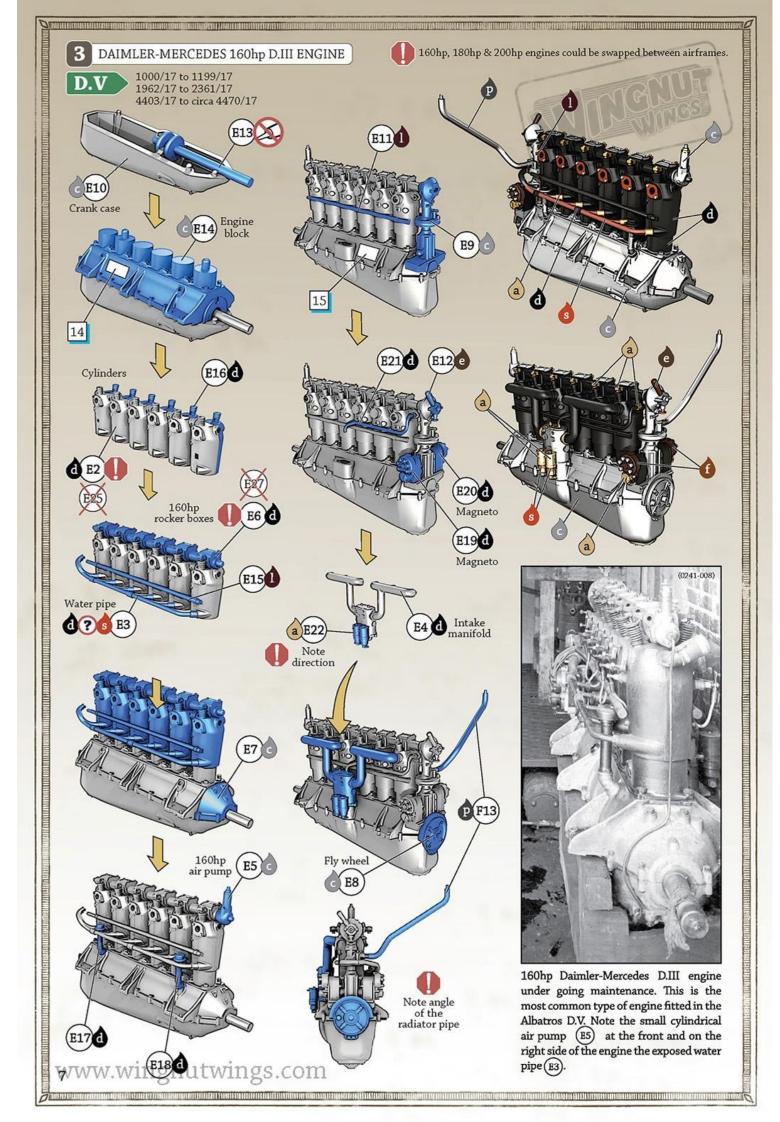
Albatros D.Va with the silver fuselage unit colour of Royal Bavarian Jasta 34b and Robert Ritter von Greim's personal marking of 2 red bands. Although the serial number is unconfirmed this aircraft appears to be from the 1st production order for 262 D.Va placed in August 1917 (numbers 5165/17 to 5426/17). Note the D.Va aileron control cables visible behind each interplane 'V' strut, which do not feature the additional wing bracing brackets. The wings and tailplane are covered in 5 colour lozenge fabric.

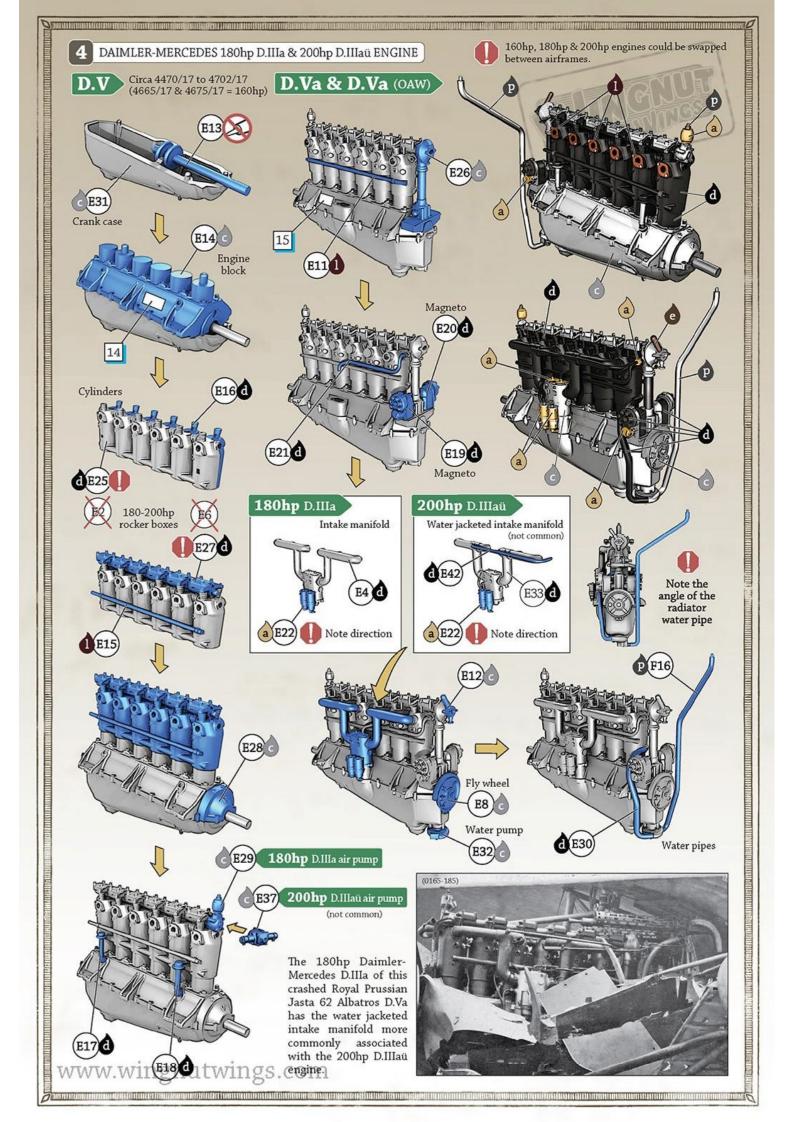




Factory fresh very early production Albatros D.V 1192/17 is from the 1st production order and was photographed here in July 1917. Note the 160hp Daimler-Mercedes D.III engine, headrest, empty ammunition belt chute fairing (A7) and the assembly & rigging instructions doped to the port side of the fuselage.

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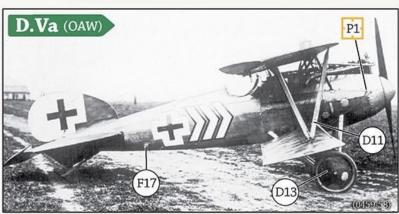


Long serving Albatros D.V 2359/17 is from the 2nd production order for 400 D.V placed in May 1917 (numbers 1962/17 – 2361/17) and was serving with Royal Bavarian Jasta 23b by the time Otto Hohmuth was captured on 6 March 1918. By this time the original 160hp Daimler-Mercedes D.III engine had been replaced by the 180hp Daimler-Mercedes D.IIIa seen here, the original 'V' struts by had been reinforced with braces on and had engine cowling retaining straps retrofitted. It is seen here after being repainted in RFC markings and having its armament removed. An anemometer was fixed to the starboard 'V' strut but has been removed by its captors and replaced with a single pitot tube on the top wing.

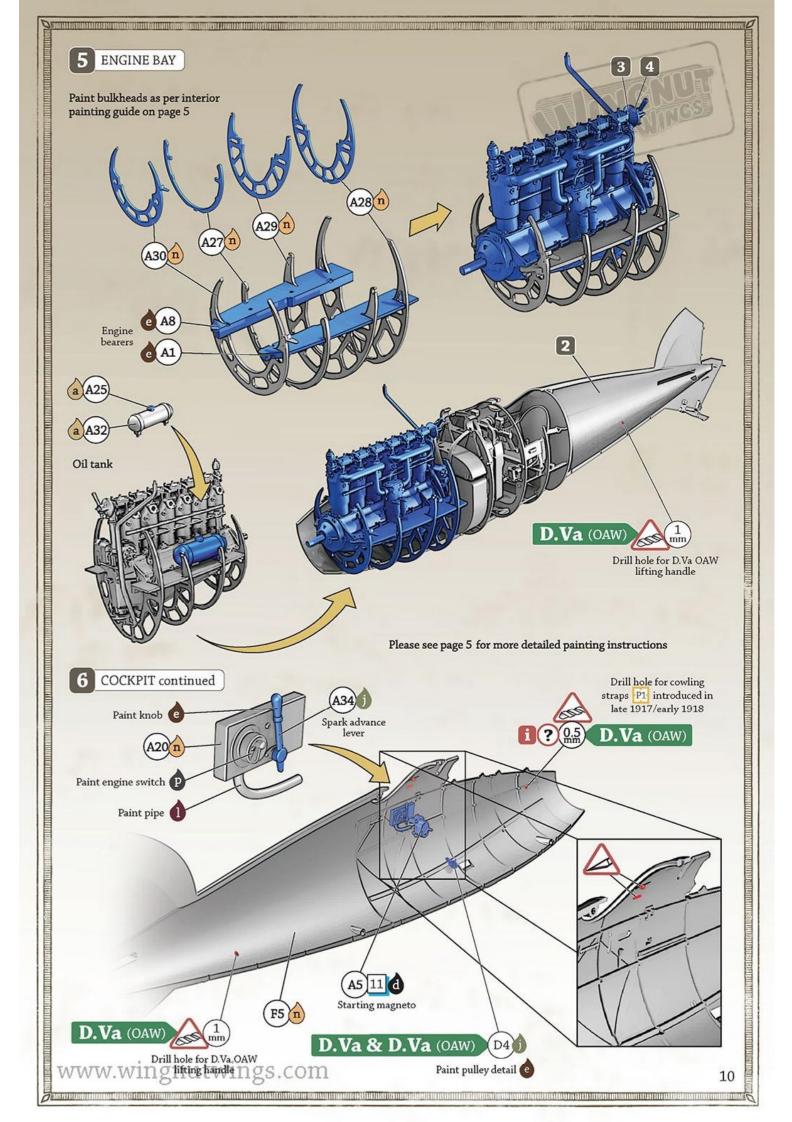


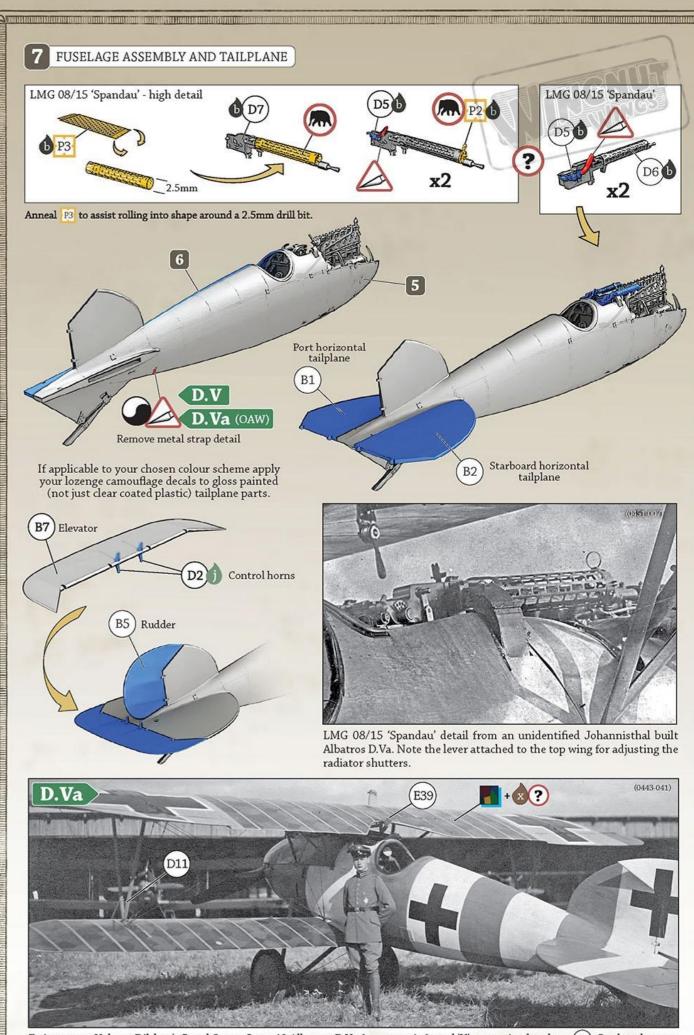
Long serving Johannisthal built Albatros D.Va '76' in service with a Marine Feld Jasta in mid to late 1918. Note the 180hp Daimler-Mercedes D.IIIa engine with water jacketed intake manifold, modified 'post March 1918' balkenkreuz markings and the additional wing strut bracing brackets on the interplane 'V' struts. Also note the mottled camouflage finish on the engine cowlings and the bomb rack fitted under the fuselage for 12.5kg PuW bombs. The very pale rigging wires are unusual and have probably been painted light blue or white.

This Ostdeutsche Albatros Werke built Albatros D.Va (OAW) is from the final production order, but the 1st order placed with OAW, for 600 D.Va in September-October 1917 (numbers 6400/17 to 6999/17). The OAW factory distinguishing features visible in this photo are the fuselage lifting handle (F1) and wheel cover (D13). Photographic evidence available to us indicates that all OAW built D.Va left the factory covered with lozenge fabric and powered by the 180hp Daimler-Mercedes D.IIIa engine. Note the 'post April 1918' style of balkenkreuz markings.

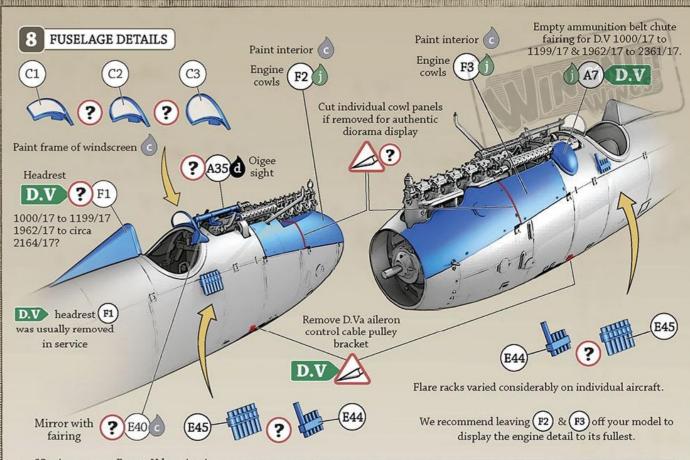


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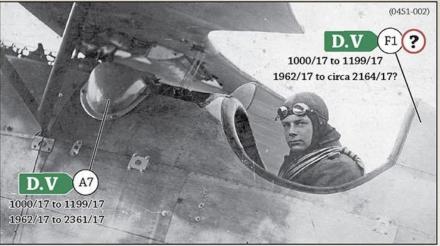




7 victory ace Helmut Dilthey's Royal Saxon Jasta 40 Albatros D.Va features reinforced 'V' strut wing brackets (011), 5 colour lozenge fabric covering and modified 'post March 1918' balkenkreuz markings. Note the mirror (339) attached to the top wing cut out.

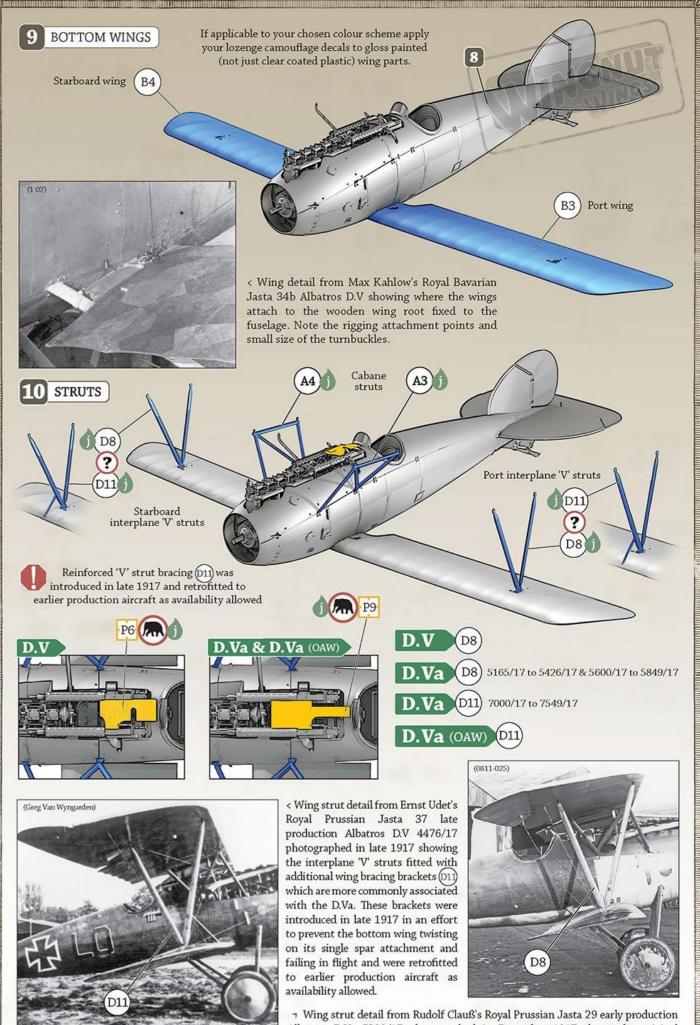


> 62 victory ace Ernst Udet sits in a new unidentified production Albatros D.V (not late production 4476/17) which conveniently shows the empty ammunition belt chute fairing (A7) which was found on D.V from the 1st production order placed in April 1917 (numbers 1000/17 to 1199/17) and 2nd production order placed in May 1917 (numbers 1962/17 to 2361/17). The headrest (F1) is only found on the D.V and were usually removed in service to allow more head movement for improved visibility and appear to have been deleted from production aircraft sometime after 2264/17. Note the unusual scoop at the rear of the radiator and 'colourful' safety harness straps.

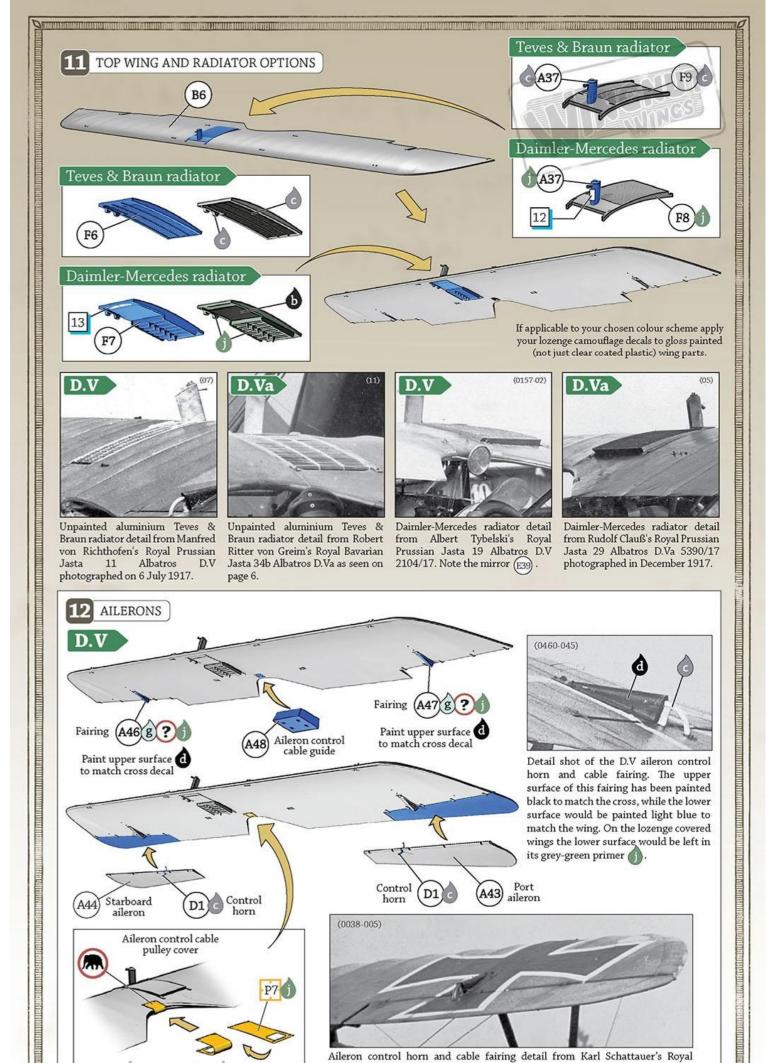




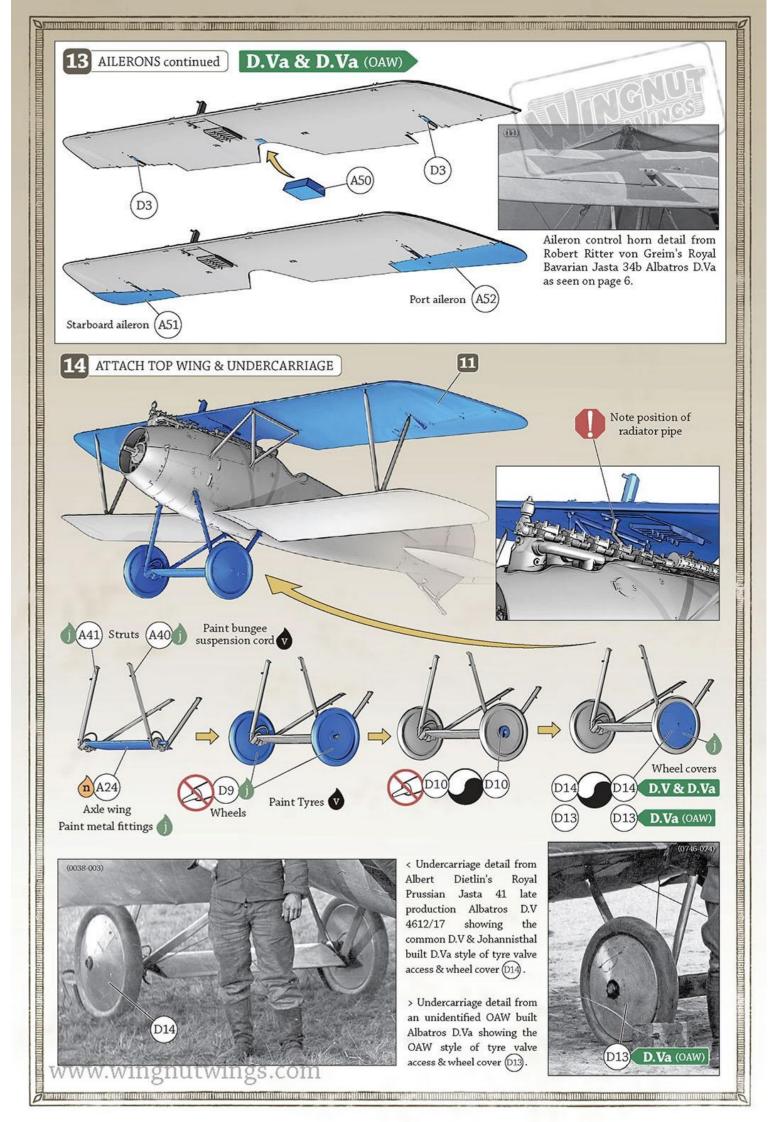
Late production Albatros D.V 4640/17 'R' is from the 3rd and final production order for 300 D.V placed in July 1917 (numbers 4403/17 to 4702/17). The lack of the empty ammunition belt chute fairing (A7) is a feature of Albatros D.V from this production order and all D.Va and D.Va (OAW). Note the 180hp Daimler-Mercedes D.IIIa engine, lozenge fabric covering and unique position of the anemometer on the bottom wing. The aircraft in the background is a Gotha G.V to which Albatros D.V 4640/17 'R' served as escort.

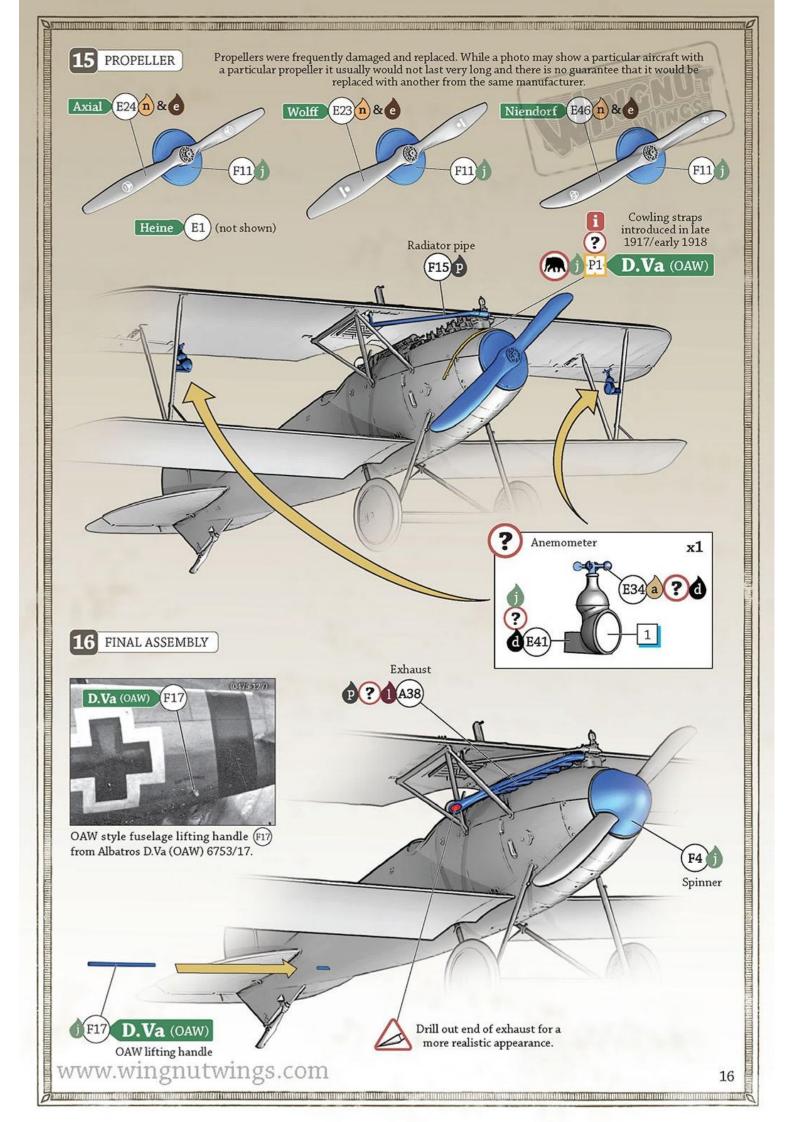


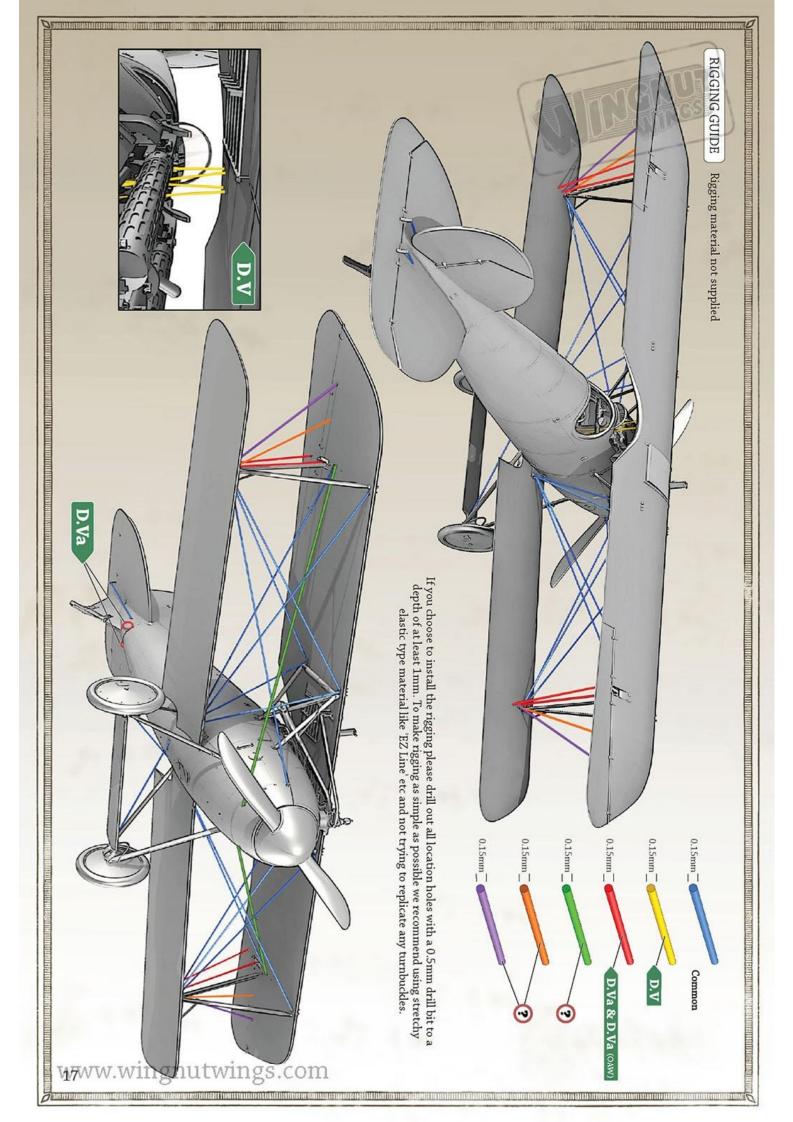
Albatros D.Va 5390/17 photographed in December 1917 shows the original interplane 'V' struts (D8) (without additional wing bracing brackets).



Bavarian Jasta 16b Albatros D.V









A mechanic poses in front of Hans von Goessel's crashed OAW built Albatros D.Va, the two undercarriage axle wing fairings at the bottom left of the photo possibly indicating the start of his salvage mission. Note the aileron control wires entering the upper wing, undercarriage bungee cords and OAW style lifting handle 'bar' protruding from the rear side of the fuselage. The name under the cockpit opening reads 'Margarethe'.



#### 3-D Modelling by Mark Miller

A background in technical illustration and long term passion for modelling and early aircraft has enabled Mark to produce some of the most stunning 3D renderings of aircraft anyone is likely to see. His artwork has appeared in

numerous books and publications from Cross & Cockade, Over the Front, Schiffer and Windsock amongst others.

Mark worked for Wingnut Wings from 2007 to 2009.

To see some examples of Mark's work please visit http://www.wwi-models.org/Images/Miller/render/index.html

Additional 3D modelling by Bryan Wall.



#### Product Manager, 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 golden era of the '60's. An accomplished modeller Richard's models have twice been

awarded Best Overall in Show at IPMS(NZ) National Conventions and earned him the inaugural TamiyaCon(NZ) Master Modeller 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 ensuring 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 Ronny's Facebook page www.facebook.com/RONNY-BAR-Aircraft-Profiles-166538664131/



### Decal Art by Malcolm Laird

Malcolm has been in the scale model industry since 1981 and now produces his line of Ventura decals and a range of soft cover aviation books mainly with a Kiwi flavour. Outside work he suffers the dual afflictions of restoring old

Kawasaki motorcycles and trying to paint impressionist landscapes, with 'mixed' results so far.

Visit Malcolm's web site at www.venturapublications.com.

### Errata - Please check our website in case there are any corrections and updated information regarding this model.

30011 C Walter Kleffel, Jasta 18, January 1918 (1 victory). Updated painting and decal illustrations on our website.

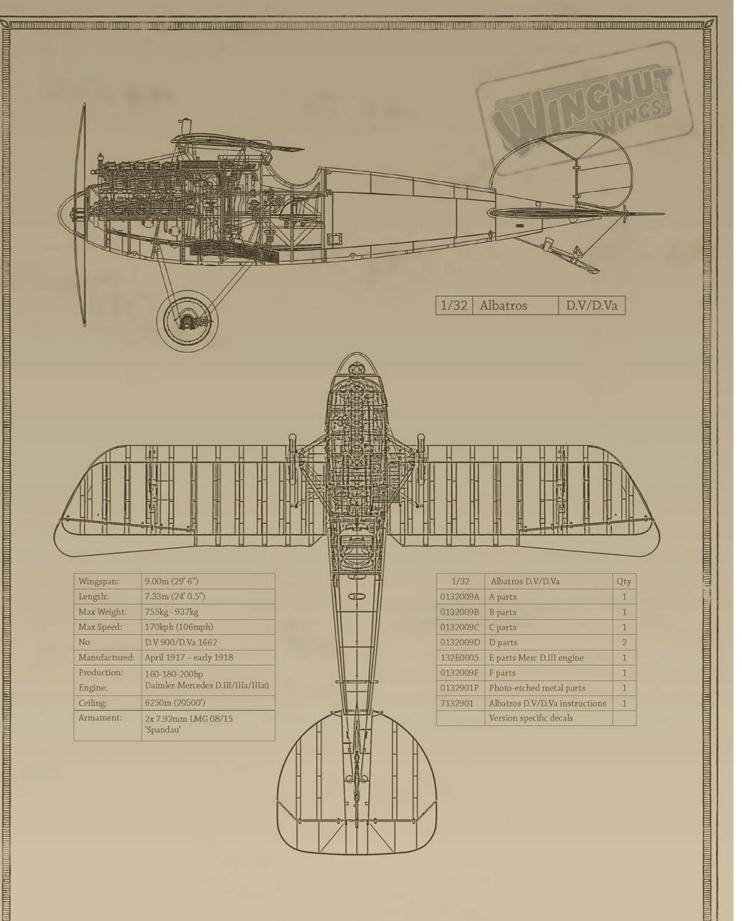
30013 E Elevator is probably black d and not white as illustrated.

**30014 C** D.III engine.

30015 A Max Müller was reportedly shot down in Albatros D.Va 5405/17.

**30016** A Not 5787/17. (serial number is still unconfirmed as at December 2018).

**30017** D Updated colour scheme illustration on our website.



If you have any damaged or missing parts please contact help@wingnutwings.com for assistance.

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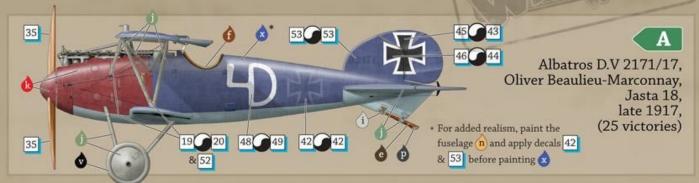


# HIGH QUALITY DECALS

30011

1/32

Albatros D.V Jasta 18



Albatros D.V 4594/17, Paul Strähle, Jasta 18 & Jasta 57, 1917-18





C

Albatros D.V, 'Horseshoe & Clover', Jasta 18, 1917-18





Albatros D.V, Josef Veltjens, Jasta 18,

Jasta 18, early 1918,



### Albatros D.V 2171/17, Oliver Beaulieu-Marconnay, Jasta 18, late 1917 (25 victories)





The serial number D.2171/17 is just visible under the dark blue Jasta 18 paint on the fin of Oliver Freiherr von Beaulieu-Marconnay's Albatros D.V. Note the roughly painted over fuselage cross, rear view mirror and unusual straight edges to the upper wing crosses. Only 16 at the outbreak of hostilities, Oliver needed to wait until the 2nd year of the war before joining the 4th Prussian Dragoons (hence his '4D' branding iron personal marking). Promoted to Lieutenant while still just 17 he decided to join the air service and became a pilot in Jasta 18 in December 1917. Along with the rest of Jasta 18 he was transferred to Jasta 15 in March 1918 where he scored 13 of victories before command of Jasta 19 in early September where he would score his remaining 12 victories. He was so severely injured in mid October that his Pour le Merit award was rushed through before he died on the 26th October 1918. Oliver Freiherr von Beaulieu-Marconnay was 20. (Greg Van Wyngarden photo)

### Albatros D.V 4594/17, Paul Strähle, Jasta 18 & Jasta 57, 1917-18 (15 victories)

Use optional parts (C2)(E24)(F6)(F9) and Daimler Mercedes D.III 160hp engine.





The early morning sunlight casts long shadows on Paul Strähle's Albatros D.V 4594/17 at Boistrancourt. Items to note in this photo are the thick vertical air pump associated with the 180hp Daimler-Mercedes D.IIIa engine and Strähle's white axe personal marking. The white border around the cross on the lower wing indicates that this was most likely originally painted on a 'lozenge' covered wing which has had pale blue applied around it at unit level. Other views of this aircraft, while inconclusive, do indicate that it may not have had the same red-blue proportions as other Jasta 18 aircraft and this is how we have illustrated our profile, but the final decision is yours. Paul served in the infantry before becoming a pilot. He joined Jasta 18 on the 27th of October 1917 and scored 7 victories

before taking command of Jasta 57 on New Years day 1918 where he was awarded his remaining 8 victories. Unusually he took Albatros D.V 1594/17 with him to Jasta 57. Paul served in France and Russia during WWII and died in 1985. He was 92. (Greg Van Wyngarden photo)



Unfortunately the pilot of this attractively marked Jasta 18 Albatros D.V is unknown. The horseshoe and four leaf clover personal marking might have been all white as illustrated in our profile but it is quite possible that the clover was a pale green so we have given you a choice. Details to note in this photo include the thin vertical air pump indicating a 160hp Daimler-Mercedes D.III engine, rear view mirror, Astra propeller, anemometer (E41) on left 'V' strut and the windscreen

(C1) . There is an unusual 'protective plate' covering the front 3 rocker springs of the engine. The struts appear quite dark and may have also been painted 🔕 . (Greg Van Wyngarden photo)



Traditionally illustrated as Georg von Hantelmann's Jasta 15 Albatros D.V the latest research indicates that this is not the case. The pilot of this strikingly marked Albatros D.V looks remarkably like 6 victory ace Kurt Monnington, another Jasta 15 pilot known to use the Totenkopf (death's head) as his personal marking. Kurt served in the ground forces before becoming a pilot and joining Jasta 15 in 1917. He was then involved in



the mass transfer of Jasta 15 personnel to Jasta 18 in March 1918 (at which time Hantelmann became a member of Jasta 15) where Kurt would be score all 8 of his victories. Interesting items to note include the rudder covered in 5 colour lower 'lozenge', rear view mirror (E39), Daimler-Mercedes radiator and painted over fuselage cross. The upper wing appears to be half light and half dark (green and mauve respecively). There appear to be 'L' shaped flash guards along each side of the 160hp Daimler-Mercedes D.III engine. (Greg Van Wyngarden photo)





Josef Veltjens stands tall amongst Jasta 18 ground crew at Harlebeke Belgium in early 1918. Details to note include the rear view mirror (E39) attached to the upper wing, a small optical sight in front of the windscreen

c1 and the unusual pale blue-dark blue separation line under the tailplane. Even though the thin vertical air pump is hidden behind the propeller, the rocker boxes centered above the springs betray the identity of the 160hp Daimler-Mercedes D.III engine. After successful service in the ground forces Josef transferred to aviation in December 1915 and served as a two-seater pilot until 14 March

1917 when he joined Jasta 14 and scored his first 5 victories. Transferring to Jasta 18 he brought his total up to 10 and, following the Jasta swap of 20 March 1918, he became commander of Jasta 15 on 18 May where he would remain and raise his victory total to 35. He was killed on 6 October 1943 when the Ju-52 transport he was a passenger in was shot down by Yugoslav partisans. He was 49. (Greg Van Wyngarden photo)

|   | All Colours   | Tamiya                        | Humbrol       | Misterkit |  |
|---|---|-------------------------------|---------------|-----------|--|
| ı | Black - semi gloss  | X18                           | 85            |           |  |
|   | Dark Wood - gloss   | XF68                          | 98            |           |  |
|   | Leather - semi gloss                                      | XF52                          | 62            |           |  |
|   | Light Blue - gloss  | XF23(x1)+XF2(x1)              | 65            | GC03      |  |
|   | Light Grey - matt   | XF19                          | 64            | GC08      |  |
|   | Interior Grey Green - matt                                | XF76                          | 90            |           |  |
|   | Red - gloss   | X7                            | 19            |           |  |
|   | White - semi gloss  | XF2                           | 34            |           |  |
|   | Light Wood - gloss  | XF59                          | 93            |           |  |
|   | Mauve - gloss   | X16(x1)+XF52(x2)              | 68(x1)+29(x2) | GC02      |  |
|   | Steel   | XF56                          | 27003         |           |  |
|   | Rubber - matt   | XF69                          | 66            |           |  |
|   | Medium Grey Green - gloss                                 | XF71                          | 78            | GC04      |  |
|   | Blue - gloss  | XF8(x1)+X23(x1)               | 25(x1)+35(x1) |           |  |
| J | Decal 30001 5 Colour Upper Lozenge – available separately |                               |               |           |  |
|   | Decal 30002 5 Colour Lower Lozenge – available separately |                               |               |           |  |
| ì | Decal 30005 German Rib Tape                               | s for Lozenge – available set | parately      |           |  |

Created on 30 October 1916, Royal Prussian Jasta 18 was commanded by 44 victory ace Rudolf Berthold from 12 August 1917 until 10 October 1917 when he was seriously wounded. When Berthold was commander of JGII in March 1918 he famously swapped the entire staffs of Jastas 15 and 18 on the 20th of that month so that once again the trusted personnel of his previous unit would be under his command. Thus Jasta 18 became Jasta 15 and Jasta 15 became Jasta 18. By the end of the Great War Jasta 18 had been credited with 112 victories while Jasta 15 had at least 150.



If you require assistance please contact - help@wingnutwings.com

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