

The AGE FEA (The Royal Alexand Feature Farmes Depressment) 27) was a mild ugdate to the FEA (Sin Carrier's which first few is almost part of the FEA (Sin Carrier's which first few is a lawny of 1915). If the other Complex fourth FEA (Sin Carrier's which first few is a lawny of 1915), the developed of the other Complex few is the Carrier's which is not sould be the Complex for the Carrier's which is now wheel. The first FEA is a first few is made to the Carrier's which is now wheel the first FEA is a first few is made to the Carrier's which is the true carrier's which is the first FEA is a first few is the sum of the carrier's which is the Carr

Despite is ungainly appearance and large size the FLE. New laws an effective two seat fighter, recomsistance and bomber accords which proved to be lagibly adoptable to the changing face of actin waters. Arriving in last 1915 the punch educing infection the observer/generance excellent view and field of fire (concerding that its contemporate the BLE. 26 were sorely lacking) enabling the FLE. 35 along with the D11.2 concerds the "Federical recomplishing the FLE all along severe in the ercort, recommissance, how determine, training and beninging the CLE along severe in the ercort, recommissance, how determine, training and beninging the CLE along severe in the ercort, recommissance, how determine, training and beninging the CLE along severe in the ercort, recommissance, how determine, training and beninging the CLE along severe in the ercort, recommissance, how determine, training and beninging the CLE along severe in the contractions of the CLE along the CLE along severe in the contraction was completed in the CLE and the CLE along severe in the contraction was composed as it is ELA and never in the contractions were completed as it ELA and never resultance by a training the CLE along severe in the contraction was composed as it ELA and never resultance by a training the CLE along severe in the contraction was composed as it ELA and never resultance by a train understance and the contraction was composed as it ELA and never resultance by a train understance and the contraction was composed as it ELA and never the sound that the contraction was composed as it ELA and never resultance by a superior and the contraction was composed as it ELA and never resultance by a superior and the contraction was composed as it ELA and never the contraction was composed as it ELA and never the contraction was composed as it ELA and never the contraction was composed as it ELA and never the contraction was composed as it ELA and never the contraction was composed as it ELA and never the contraction was considered as an ELA and nev

Arriving such in the use at a time when cannothings was only just being introduced early TE. The fasture many interesting culture advantages of the consolidates. The district is cannothing arriving or possibilities. The district is cannothing arriving and produced the consolidates are such that the consolidates are such as all productions of the consolidates are such and protective occurring despet to macelle are such as the consolidates are such as an opportunities and protective occurring despet to macelle and upper arrivates of the wings and talgulates were inside with these. The consolidates are such as the consolidates and protective occurring despet to macelle and upper arrivates of the window and protective occurring despet to macelle and upper arrivates of the window and are such as the consolidates are such

| Wingspan: Length: Max Weight: Max Speed: | 47.9' (14.55m) | 31.9' to 32.3' (9.68m - 9.75m) | Approximately 3300b (1500kg) | 91.5mph (147hph) | 18.0m unit actured: | Production: Engine: Celling: | Celling: | Celling: | 11.000 (3850m) | 11.000

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Schedule of Spare Parts for the E.E.2.B Machine, DCGE 7.5 R.7392 1050 10/18, 1918 - The Vintage Aviator Ltd 1914-18 Aviation Heritage Trust - RAF FEZb Windsock Datafile, JM Bruce, 1989 - The Royal Aircraft Factory FEZb/d & Variation in RPC, RAF, RANS. & RFC Service, various authors, Cross & Cockade International, 2004



Warning:

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. 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.

Rigging:

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

Painting:

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 Wings model.













Photo Etch Part

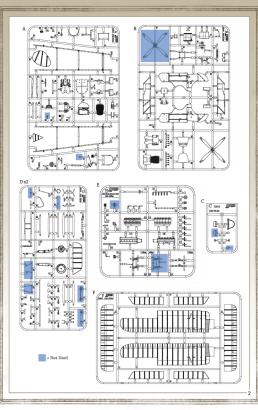


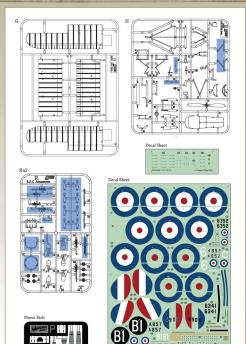




			Humbrol	Misterkit
a	Brass	X31	54	
b	Copper	XF6	12	
c	Gun Metal	X10	27004	
d	Aluminium	XF16	27001	
e	Steel	XF56	27003	
f	Dark Yellow - matt	XF60	74	
g	Rust	XF9	113	
h	Leather - semi gloss	XF52	62	
	Clear Doped Linen (CDL) - semi gloss	XF55	121	BC05
j	PC8 (FS10266) - matt	XF72(x3) + XF3(x2)		
k	Dark Khaki - matt	XF51	108	
l	PC10 early - matt & semi gloss	XF62	155	BC03
n	Light Grey	XF19	64	
n	White	XF2	34	BC08
0	Dark Wood* - semi gloss	XF68	98	
P	Black - semi gloss	X18	85	
q	Rubber - matt	XF69	66	
r	Light Wood* - semi gloss	XF78	93	
s	Red - matt	XF7	60	
t	Tinted Varnish Green (over 🕦)	XF58(x1) + X22(x2)	29(x1)+35(x2)	
u	Tinted Varnish Brown (over 🚯)	XF52(x1) + X22(x2)	123(x1)+35(x2)	
v	Clear red	X27	1321	
v	Clear green	X25	1325	
×	Green	X28	208	

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





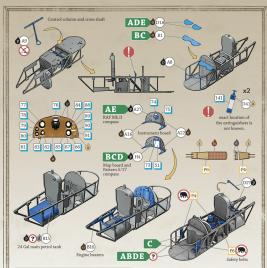




Nacelle detail showing that the observer of FE.2b 6341 did have a safety belt P4 & P6 when previously it was thought that only the pilot was lucky enough to restrained. Obviously the relative safety of this belt would need to be vacated for the observer to effectively perform his duties and it is quite possible that many other observers were not so lucky. The inside of the laminated mahogany veneer nose has been lined in clear doped linen for additional strength



while the upper nacelle ply panels retain their varnished plywood interiors. Note the footstep [72] unique to 6341 in the side of the nacelle. This and all other archive photos of 6341 were taken by the Germans following its capture on 16 May 1916.





^ Seat and control column detail showing location of decal [94]. Note that the 4 point Sutton Harmess shown here is one of the very few 'modern' items installed for safety reasons. The usual safety belt was like we include in this model [76] & [76].

v Instrument board detail. The 4 metal brackets either side of the compass are to secure a curved map holder (H4) & 51 which was seen on early machines.























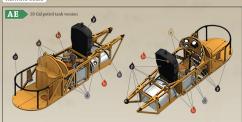


Interior detail photos from 6341. While interior detail protos from 0.341. While some details of the 'Pilot's Locker' cockpit arrangement might not be suitable for the colour scheme you are modelling these photos reveal many very interesting details.



RAF built FE.2b 5226 'Punjab No.5 Nabha' was completed in early 1916 and would have initially appeared very similar to 5203 seen on page 38. It now has its nacelle finished in PC10 (although the wings remain CDL), has Trafford Jones undercarriage, No.10 Mk.1 Anderson rear and No.4 Mk.1 Swivelling front mounts for its twin Lewis guns.

PAINTING GUIDE







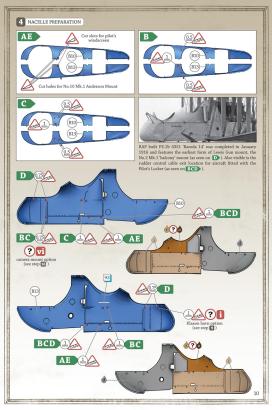


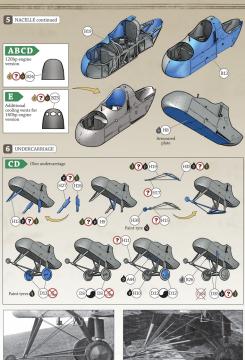


Further ascelle detail from G341 showing the doped on linen nose section lining. Bactels for the folding windstreem and a makeshift mount for a morse transmitter key can be seen, neither of which appear to have been fitted of the thin slight of FE.6 56341. The clips attached to the boards in the nose are used to position the front Lewis mount. It is thought that the damaged fitting on the left of the floor (1) was to hold photographic plates while the rubbale ram (2) on the right was possibly a makeshift method of remotely changing the their plan was possibly a makeshift method of remotely changing the exposed metal and wood framework both appear to have been punted a very dark grey \mathbf{a} colour.





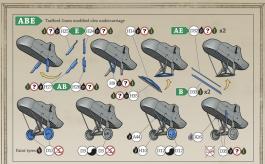




'Tricycle' oleo undercarriage with nose wheel detail from 6351 'Baroda 14'. The teardrop shaped fairing (H19 & (H17) behind the front wheel is not currently fitted, note the area worn bare on the oleo undercarriage strut.



Oleo undercarriage detail from 6341 showing foot step (HII) and wind driven petrol pump (A44).





< Detail of 'Trafford Jones' undercarriage from 6934 'Punjab 26 Jullundur' with faired front struts (33) and oleos (124).



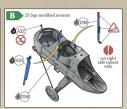




G & J Weir built FE.2b A5666 appears to have spent its life at an Army Acceptance Park 7 until being written off following an engine failure during take off in March 1919() injuring both crew.

7 NACELLE GUN MOUNT OPTIONS









they thought the observer would use the rear Lewis gun on FE.2b 6341 "Zanzibar No.1 - The Scotch Express". Note the additional rigging for the makeshift mount and the smaller Lewis mounts on either side of the Pilot's cockpit.



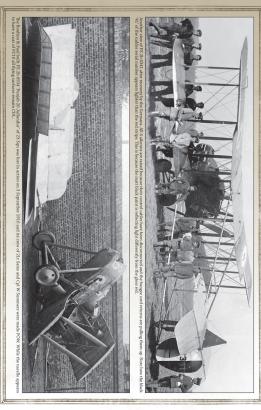


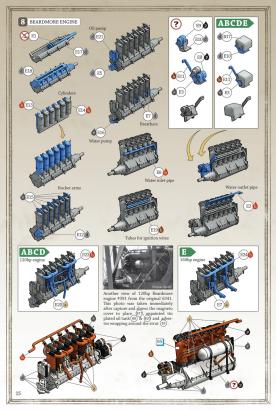
Standardized armament. Although severely damaged after crashing into a street this FE.2b, thought to be 4997 'Baroda 17', displays the No.10 MgL1 Anglerson rear mount (N) + €19' and front No.4 MgL1 Swivelling mount (Sa) with its 3 dips (mg) located on the top fairing support tube (№). The 25 Sqn FE.2b 4997 of AH

Bates and WA Barnes was on a bombing mission then they were shot down and killed by Manfred von Richthofen on 13 April 1917. Interestingly the instrument board appears to have been painted a 'dark' colour a.



< The earliest armament for the FE.2b was a single Lewis gun mounted on a No.2 Mk.1 balcony' mount (10), (103) & (83) as seen here in this detail from FE.2b 6351 'Baroda 14'. The observer's fabric windscreen (16) has been extended.</p>







120hp Beardmore engine #391 from the original 6341 shortly after capture. Note the separate intake manifolds (22) indicative of a 120hp engine and that the magneto cover (197) has been removed by the Germans for this photograph.





The same engine after a few hours flying time in FE.2b 6341. Note the extensive oil staining and patina of the copper water jackets and intake pipes (24) and how necessary the protective magneto cover (817) was.



Aviator's FE.2b 6341 reproduction. Note the oil pump (2) at left



> Rear right view showing the position of the oil tank (88) & (621) under the late style silencer (626) & (631).



Top view showing the rocker arms, water outlet pipe and cylinder water jackets before being mounted into FE.2b 6341.









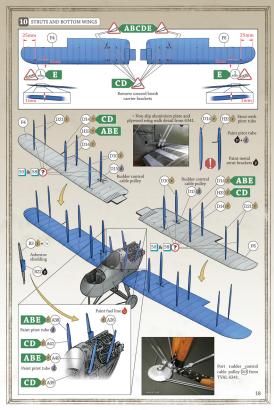








Silencer and 3 Gal oil tank detail from 6341. Archive images indicate that the tin plated oil tank was often unpainted. Note the asbestos heat shielding wrapped around the rear strut (83).





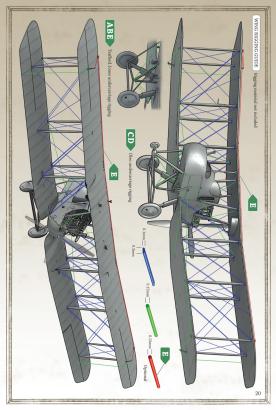


8 gal petrol tank detail from 6341 painted PC10.

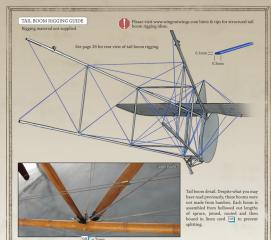


8 gal petrol tank detail from 6356 photographed after its capture on 9 March 1916. Tank is unpainted, possibly tin plated with black p brackets.



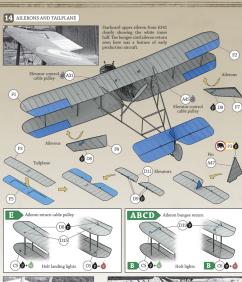








What can happen to the tail booms if not correctly rigged! The 22 Sqn G & J Weir built FE.2b 4285 of Lts RD Walker & C Smith was lost in action on 25 August 1916 after their engine failed. Both were made POW. FE.2b 4285 is shown here after recovery by the Germans.





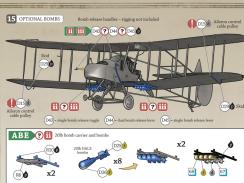
Port lower alleron from 6341. Unusually the inner half of each alleron on 6341 was painted white(?) while the outer half remained in it's original clear doped linen. Note the British & Colonial Aeroplane Co' (Bristol) stencil marking [140]. FE.2b allerons were the same as those of the BE.2c.

> Tailplane detail from 6341, note the bullet damage to the fin (43). On some aircraft there was additional rib stitching between the elevator tip and 5th rib.





^ The tailplane from this unidentified early production 6 & J Weir built FE.2b has been hit by an incendiary bullet and set on fire. Note the faint stenciling [133] & [134] visible on the tailplane components. See also page 36.









^ Unexploded early 112lb HERL bomb still attached to its 'Carrier 112lb Single Mark II'.





Unexploded 20lb HALE bomb





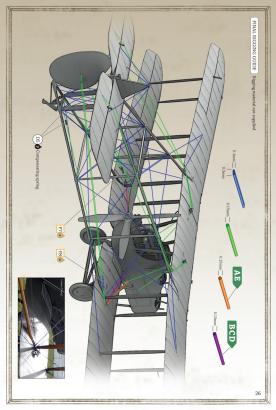


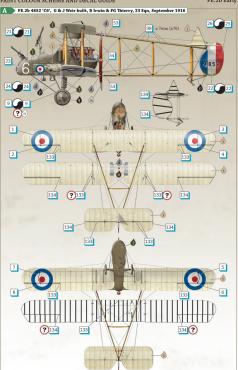






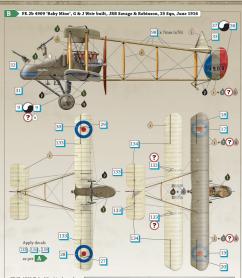
Similar to the photo seen on page 13. The Lewis guns of 6341 were removed immediately after capture and reinstalled on opposite meants for these photographs. Note the makeshift camera mount and the pipe mounted beside the pilot's codpit is another Lewis gun mount. The original light grey or CDL nacelle colour can be seen inside the radiator shutter. Note the small curved entired repart on the nacelle under the tip of the elevator control born. The transformation was the control to the control to





landing, several other photos show it disassembled for transport and confirm many interesting details. The guns (and camera & mount, if carried) have been removed, or perhaps The observer's windshield is fitted but is folded down almost obliterating the 'C'. Note that the Trafford Jones undercarriage conversion does publications in fact show a different captured FE.2b marked 'C6', unless The port upper wing panel was clear





FE.D.4 950° Tably Mine is shown here shortly after Znd Lieutenant Savage & Aircraft Mechanic 2nd class Robinson were made PoW on 18 June 1916. Both were wounded in the action but Savage would not survive his injuries. It has been claimed that they were the final victims of Max Immerhams but this is not confirmed. What is certain is that the same action claimed the life is that the Same action claimed the life shot off his own propeller while at tacking the same shown of the s



his horrowed Folker, Ell (2461) to shake itself to piece, A great number of photos were taken of 809 after cagues and they confirm many interring details. The pilot visionhidal(\hat{Q}) was completely abstracted in the attack, a homologic (\hat{Q}) and camera mount (\hat{Q})-given futnet on the right safe of the nucle, Italifyights (\hat{Q}) at \hat{Q}) were mounted on the top wing and ofta Lewis great and \hat{Q} are the same of the safe of the safe

Recovery and display of captured FE.2b 4909 Baby Mine.



The recovery of Baby Mine is watched by soldiers and local children.



Baby Mine being positioned for public exhibition



In position ready for display. Note the rubber inner tube protruding from the right wheel.



Wings removed for display. The inner tube is now safely in the possession of the German Army and half the paint from the wheel cover has worn off in the process. It is not often that the upper surfaces of wings are so clearly shown in photos. Note the painted 'warnished out white areas of the cockades and the numerous CDL bullet hole patches.

FE.2b 6341 'Zanzibar No.1', RAF Built, D McMaster & Douglas Grinnell-Milne, 25 Sqn, May 1916 x 7mm (x76) 138 140 140

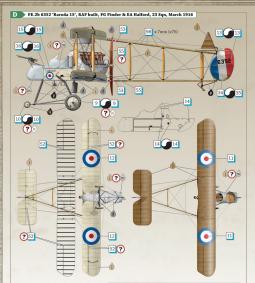
FE.2b 6341 was a presentation aircraft paid for by the people of Zanzibar (now part of Tanzania) and carried Zanzibar No.1 on the left of the nacelle and The Scotch Express' on the right. An early RAF built machine, 6341 was delivered to 25 Sqn in January 1916 with its nacelle finished in light grey,



CD. and unpainted aluminium as per [] and may have been finished this way when 2nd Lieutemann ES Macroel & SA Sharper were credited with a German Avaisitie. 70° April. FE.26 Scill St. jerused have after Cp. Dougla Grende Milhor Borberto to the other to the severe credited with a German Avaisitie. 70° April. FE.26 Scill St. jerused have after Cp. Dougla Grende Milhor Borberto to the control of the Company of



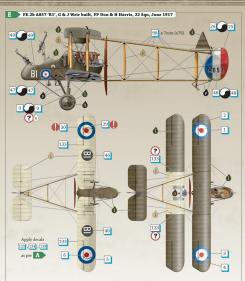
colour thought to be a very early max of PCIO. Very small areas of the original light grey or CDL nacelle colour can be seen inside the radiator shutters (81) & (81) as shown on pages 13 and 25 ottom main plane and tailplane retain their original Clear Doped Linen finish while the nacelle, undercarriage, main planes (outer wing panels) and fin have been overpainted with a dark camouflage



17 victory ace Max Immelmann stands in the cockpit of FE.2b 6352 'Baroda 15' only recently vacated by a wounded Lt Pinder. The 23 Sqn FE.2b of Pinder and Halford was one of several escorting a reconnaissance machine on 29 March 1916 when 6352 was shot down by Immelmann, believed to be flying Fokker E.II 37/15, to become his 12th confirmed victory. According to Immelmann he fired about 100 rounds at 6342, slashing through the fabric wings, puncturing an engine cylinder, holing the radiator and shooting Pinder through both arms. He also claimed that the observer had failed to fire a single shot in defense. The upper surfaces of the wings and tailplane have been doped with an unconfirmed camouflage colour, most likely to be PC8 because of the opaque



captured) while the nacelle has light grey (or CDL) ply areas, CDL side panels and bare aluminium metal cowlings. Each aluminium cowl has the factory number 25 14 stenciled onto it. Please visit our website for more photos of this aircraft.



The 22 Sqn FE.2b A857 'B1' of FP Don & H Harris was on reconnaissance near Lesdain in northern France when they were lost in action after combat with 6 German aircraft on 5 June 1917. Harris was wounded in the action and both were made POW and A857 was credited as legendary German ace Werner Voss' 33rd victory. Like many captured aircraft, numerous photos survive which record many interesting details. The photo here shows A857 shortly after landing and damaging the left wheel of its 'Trafford Jones' undercarriage. A CFS Mk.4 bombsight (M) can be seen on the right of the nacelle, Holt landing lights (CS) & (C6) are mounted on the bottom wings and a square



& Cockade Great Britain volume 3 #2 1972 show further details; a replacement left wheel of German origin was fitted after (or during) recovery, the fuselage and wing panels (excluding the CDL bottom center main planes) were finished in faded PC10 as was the tailplane. The starboard lower wing cockade does not have the white portions painted, these remaining CDL.



VAL FE.2b 6341 photographed at Hood Aerodrome, Masterton, New Zealand during April 2009.



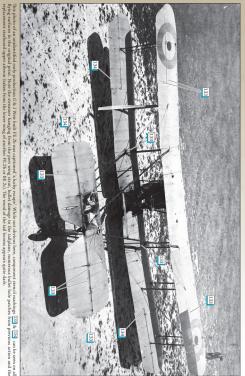
ontact! 160hp Beardmore engine #2192 roars(I) into life in April 2009.



Preparing for take off. In 2009 a Fokker Triplanes represents a minor inconvenience to an FE.2b, 92 years earlier a similar encounter could have very serious consequences for all involved.



November 2009 at Hood Aerodrome. The Lewis gun armament of 6341 is demonstrated to an enthralled crowd of spectators. Please visit thevintageaviator.co.nz for details about their upcoming airshows.



Selb-mit EE SelSS Tissud. If was photographed shortly fate completion in namy 1915 and displays many self-producted stads. A No. 2 Mrt. Takcory mount it fined for the observer's Lores of mapping all aluminum empire cond- and relations, chart depel lines no cells side parts on a play part similated in highly groy (or possibly still in their date adopt lines covering). The original form of plats () and observer's father sendences () on the team of Sel was the first of 3 (possibly 4) EE be and 3 fitting from the curry the presentation name. Broads 14:





Boulton & Paul built FE.2b 5203 is seen here shortly after completion in November 1915. Before being crashed and written off in October 1916 it would have the presentation name 'River Plate' applied to the side of its CDL nacelle and 'Esperanza' on the tip of its grey nose. Note the bare aluminium engine cowls, gravity petrol tank and teardrop fairing (11) & (11) on the undercarriage.



3-D Modelling by Bryan Wall

Bryan Wall is a product designer, specialising in computer aided design and 3D modelling. He has 9 years experience as a designer for consultancies in the UK and New Zealand, and has designed,

engineered and modelled a wide variety of products, from exercise bikes, barcode scanners and razors, to windscreen

Bryan is particularly interested in the ingenuity of the design and engineering evident in these planes, and the comparison of the concurrent development between the warring nations. He is also fascinated with the history conveyed through the surviving reference photographs and drawings. "God is in the details" as they say in the design industry and Bryan feels that the attention to detail and accuracy of the Wingnut Wings kits is what makes them so special

Aside from design, Bryan is interested in a wide range of sports and music, he is a guitar player and is currently teaching himself the piano,



longer accepts commissions

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 golden era of the '60's. Other interests include mountain biking, scotch and cigars.

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

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 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 website at: www.ronnybarprofiles.com



Box Art by Steve Anderson

Steve Anderson is an avid historian of military aviation, with a special interest in the mar beautiful biplanes and triplanes of World War I. The aircraft and battles of famous World War I aces such as Baron Manfred von Richthofen (better known as the "Red Baron"), James McCudden, Raoul

Lufbery, Ernst Udet, Werner Voss, and other pioneers of 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.

dogfighting are among Steve's favorite subjects.



		Qty
0132014A	A parts	1
0132014B	B parts	1
0132014C	C parts	1
0132014D	D parts	2
0132014F	F parts	1
0132014G	G parts	1
0132014H	H parts	1
0132014P	Photo-etched metal parts	1
132E0010	E parts Beardmore/AD Engine	1
132R0001	R parts RFC Armaments	2
7132014	Instructions	1
9132014	Decals	1
9132014b	Decals	1

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



32003 - 1/32 SE.5a 'Hisso'



32012 - 1/32 RE.8 'Harry Tate'



32013 - 1/32 Sopwith Pup RFC

Also available from www.wingnutwings.com

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