

Utilizing design cues and lessons learned from previous aircraft designed for the Austro-Hungarian Army and Navy the Ernst Heinkel designed Hansa-Brandenburg W.12 went on to become one of the most successful sea-plane fighters operated by the German Navy in the First World War. The W.12 was designed to be a long range, highly maneuverable two-seat fighter and the extremely sturdy, triangulated, float strut arrangement ensured great strength while almost doing away with the need for any wing rigging. Three Daimler-Mercedes 160hp D.III powered W.12 prototypes were ordered in October 1916 (numbers 1014 to 1016) and another 3 the following month (numbers 1011 to 1013). The W.12 initially lived up to its promise when prototype 1014 took to the air for the 1st time in late February 1917, which was fortuitous because the Navy had placed a production order for 10 Benz Bz.III 150hp powered W.12 the previous month. Eventually various problems arose which delayed the remaining 5 prototypes and they were not delivered until July 1917, about the same time as the 1st the production aircraft began arriving, and the W.12 was not considered 'fully satisfactory' until the following month. Finally the German Navy had a seaplane capable of intercepting the fast British flying boats.

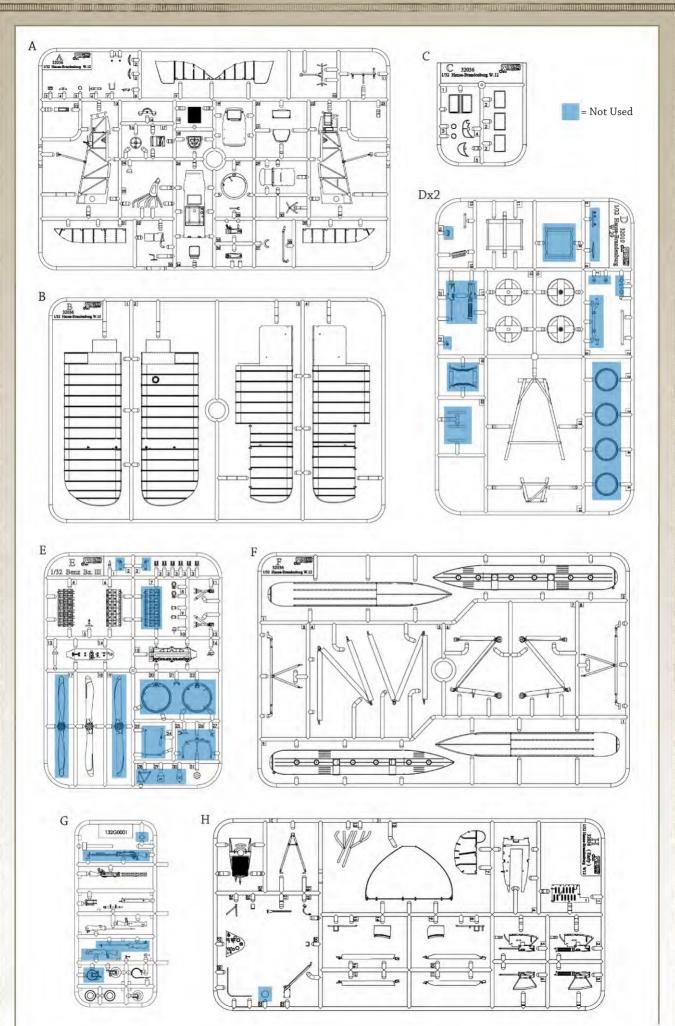
The first 6 prototype Hansa-Brandenburg W.12 'Kamel' (Camel) featured a rounded nose cowling, 160hp Daimler-Mercedes D.III engine and a radiator mounted in front of the top wing. The first 10 production aircraft ordered in January 1917 (numbers 1178 to 1187) were powered by the 150hp Benz Bz.III engine with a vertical 'car type' radiator in front of the engine. Most early W.12 were built to C2MG specifications (two-seat C type aircraft fitted with 2 Machine Guns) although photographic evidence confirms that a small number, possibly just 2 or 3, had an additional IMG 08 'Spandau' fixed to the port side of the fuselage effectively making them a C3MG. The remaining 20 early production W.12 were ordered in March 1917 (numbers 1395 to 1414). Photographic evidence indicates that some aircraft stationed at Zeebrugge had their top wing cut outs modified for increased visibility. Late production W.12 featured a lengthened fuselage, redesigned cabane struts, ailerons on the bottom wings and a revised tailplane. These aircraft were powered by both the Daimler-Mercedes D.III and Benz Bz.III engines and built to C2MG, C2MGHFT (C2MG with wireless equipment) and C3MG specifications. Although the Hansa-Brandenburg W.29 monoplane introduced in mid 1918 was intended to replace the W.12, the 'Kamel' continued to serve until the Armistice. A version built in The Netherlands post war as the Van Berkel WA remained in service until 1933. Any history of this aircraft here is of necessity very brief, therefore we encourage you to seek out the references listed below for a more thorough understanding of this significant aircraft.

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 and, while we have been as meticulous as we could be, I'm sure some will not find our choices to their liking. From January 1916 it was directed that all German seaplane surfaces visible from above such as the tops of the wings, fuselage, floats and tailplane be painted in hexagons of 'grey brown', 'grey blue' and 'grey violet'. Camouflage printed fabric does not appear to have been used on the W.12. Contemporary photos confirm that there were different paint mixes used for the hexagon camouflage on the fabric and ply covered areas, with the ply areas usually being considerably darker. Side surfaces of the fuselage, floats and struts were to be painted 'grey blue' with undersides painted light grey except for fabric wings etc which should remain in their original CDL (Clear Doped Linen). Some long serving W.12 had their floats and struts painted with a black bituminous tar based paint for protection from salt water from mid 1918. Generally the hexagon painted surfaces were matt, as were the 'grey blue' plywood fuselage side surfaces while the metal engine cowlings and cockpit coaming were gloss. The CDL undersides retained a relatively high gloss finish.

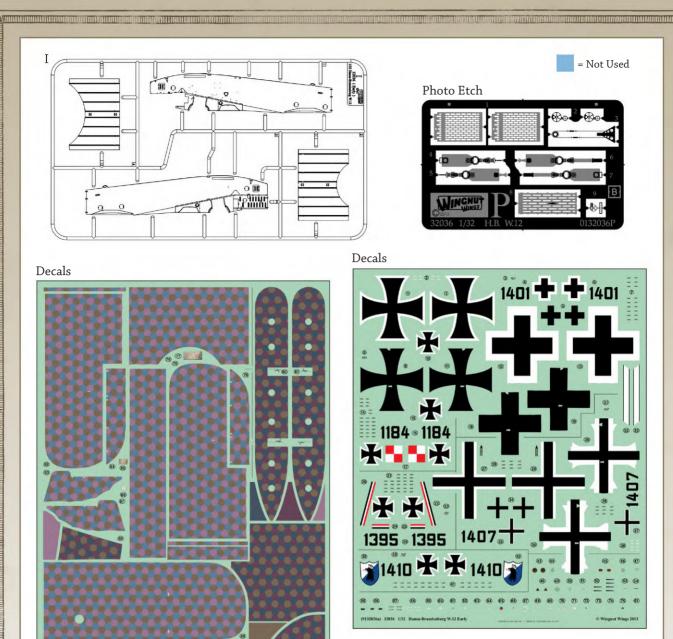
Richard Alexander 2014

Wingspan:	Length:	Max Weight:	Max Speed:			
11.2m (36.75ft)	(Early) 8.69m (28.5ft)	(Early) 1230kg (2712 lb)	156kph (97mph)			
No. Manufactured:	Production:	Engine:	Ceiling:			
(Early) 36, (Late) 110	Oct.1916 to Early 1918	(Early) 150hp Benz Bz.III	5000m (16400ft)			
Armament:						
1 or 2 7.92mm lMG 08 'Spandau' & 1 7.92mm Parabellum LMG 14 machine guns						
References:						
Brandenburg W.12 Windsock Datafile 61, P.M Grosz, 1997 - 1914-18 Aviation Heritage Trust - Colin Owers The Vintage Aviator LTD - Private Collections						
#3203						

THE	ansa-Brandenburg W. 1/32 Scale	12 Early	7		
ventilated area. Always we gluing and sanding. Do no	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.				
sembly: Read all the instruction Assemble metal and resin Before assembly select a r	as carefully before starting parts (if included) using Cyan narking option and note option	oacrylate (CA) or epoxy nal parts required in ins	glue. tructions.		
	e drill out all location holes wi		depth of at least 1mm.		
ainting: Only use paints designed and suitable for plastic model kitsets.					
surface of model (not jus area they are being applied	ed. Soak in warm water for 15 so t clear coated plastic) . For larg to. This will make it easier to ma r additional photos, hints and	ge decals it is helpful to ap neuver them into the corr	oply a drop of water to th rect position.		
your Wingnut Wings mod					
1 Construction Step	Choose	Attention	Remove		
(A1) Part Number	Do Not Cement	A Option	Drill		
P1 Photo Etch Part	Cement For Metal	Other Side	Paint Colour		
All colours	Tamiya	Humbrol	Federal Standard		
a Brass	X31	54			
b Gun Metal	X10	27004			
c Aluminium	XF16	27001			
d Black - semi gloss	X18	85			
e Leather - semi gloss	XF52	62	30219		
f Grey Blue - matt & gloss	XF83	165	26293		
g Interior Grey Green - semi gloss	XF76	240	24424		
h Rust – matt	XF9	113	20045		
i White - semi gloss	XF2	34			
j Wood * - semi gloss	XF59*	93*	33245*		
k Steel	XF56	27003			
1 Clear Doped Linen - matt & gloss	XF57	93	23237		
m Light Grey - matt	XF19	64	36463		
n Grey - matt	XF22	92	24159		
Rubber - semi gloss	XF69	66	35042		
p Dark Wood * - gloss	XF68	160	30108		



-2

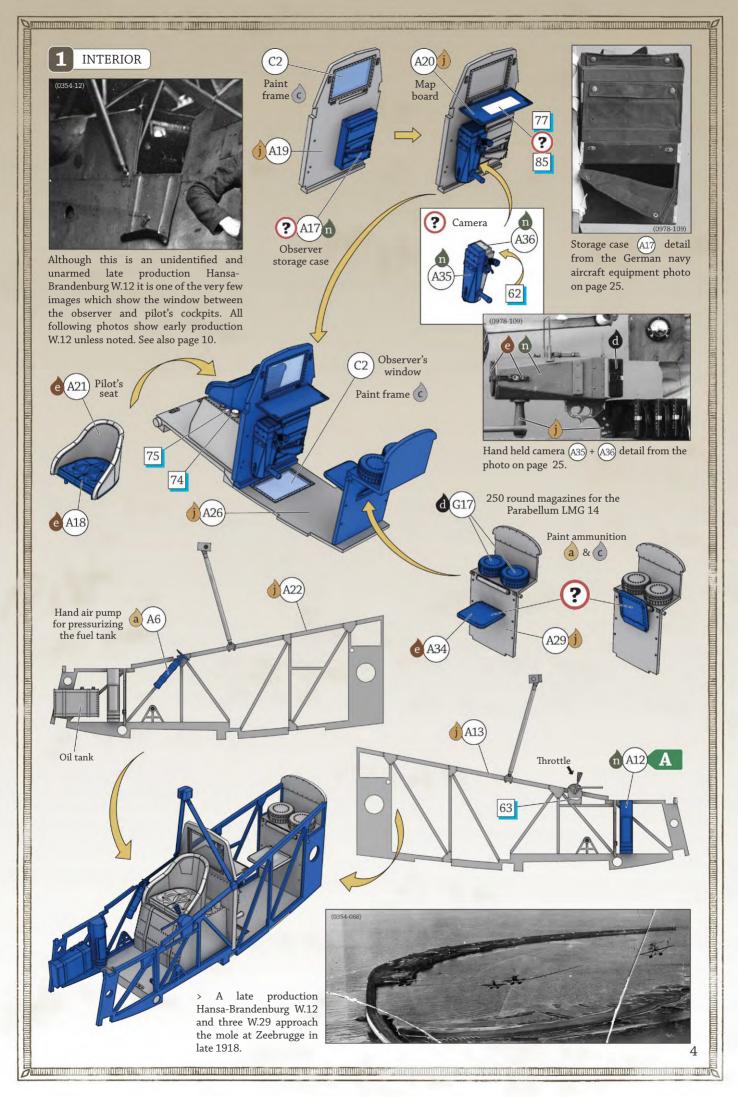


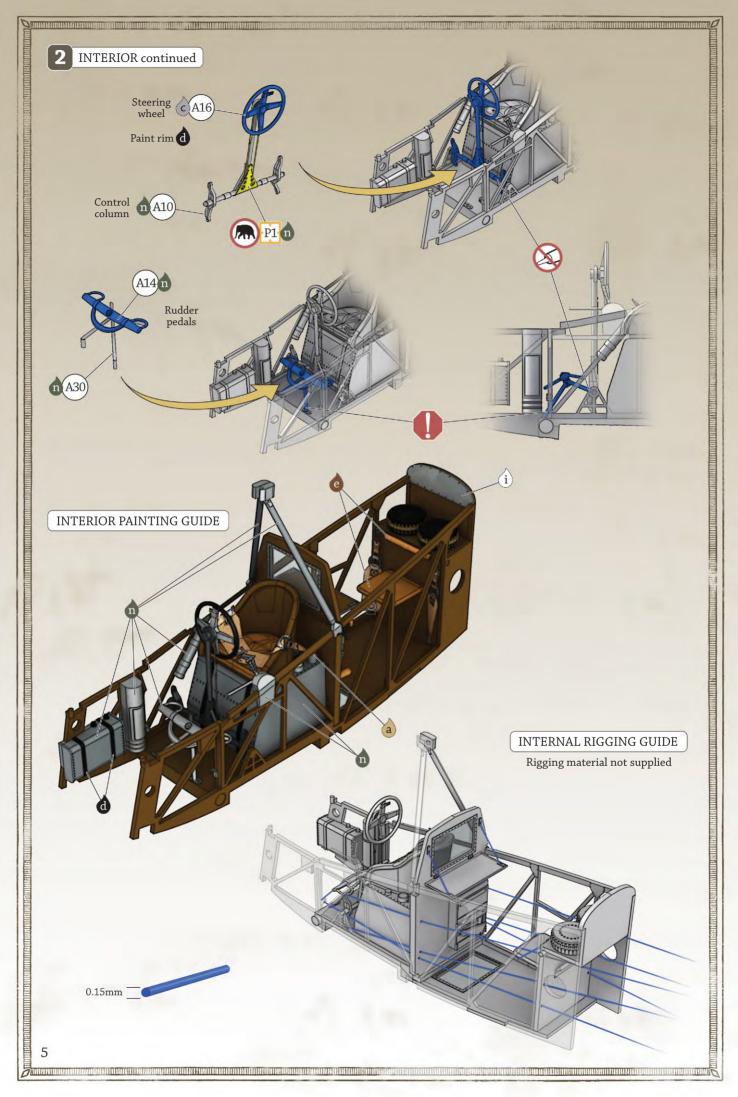
Early production Hansa-Brandenburg W.12 prepare to launch in mid to late 1918, possibly at List, Westerland on the island of Sylt. From the left we can see 1402, unidentified (but possibly 1401 3) and 1186 in the water. Note the post June 1918 converted 'thin arm' balkenkreuz on the (easy to reach) fuselage and rudder while the top wing balkenkreuz remain the interim post April 1918 'fat arm' style. All the floats and float struts appear to be finished with black bituminous tar based paint. See also page 20.

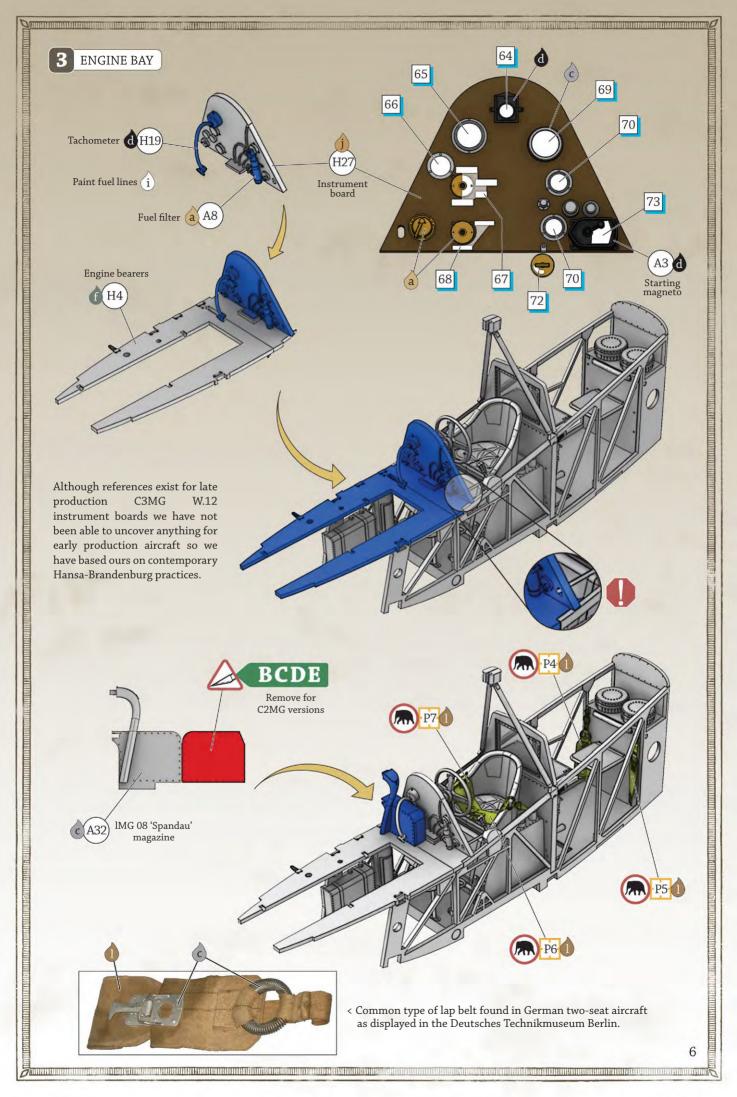


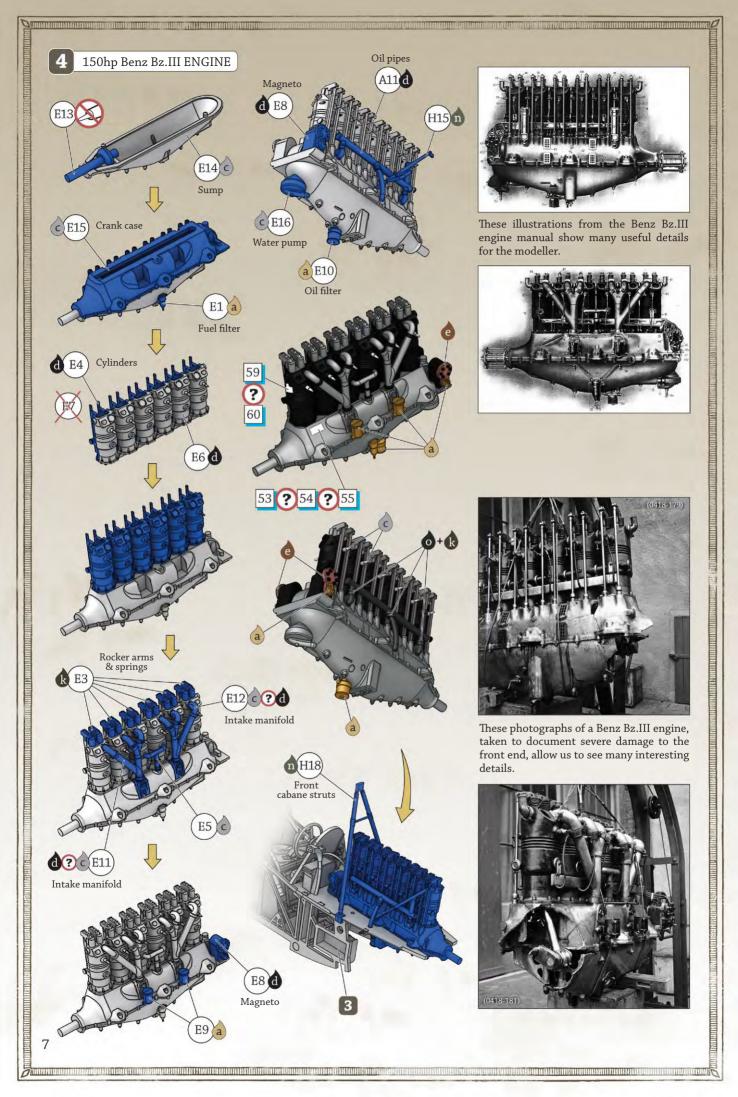
3

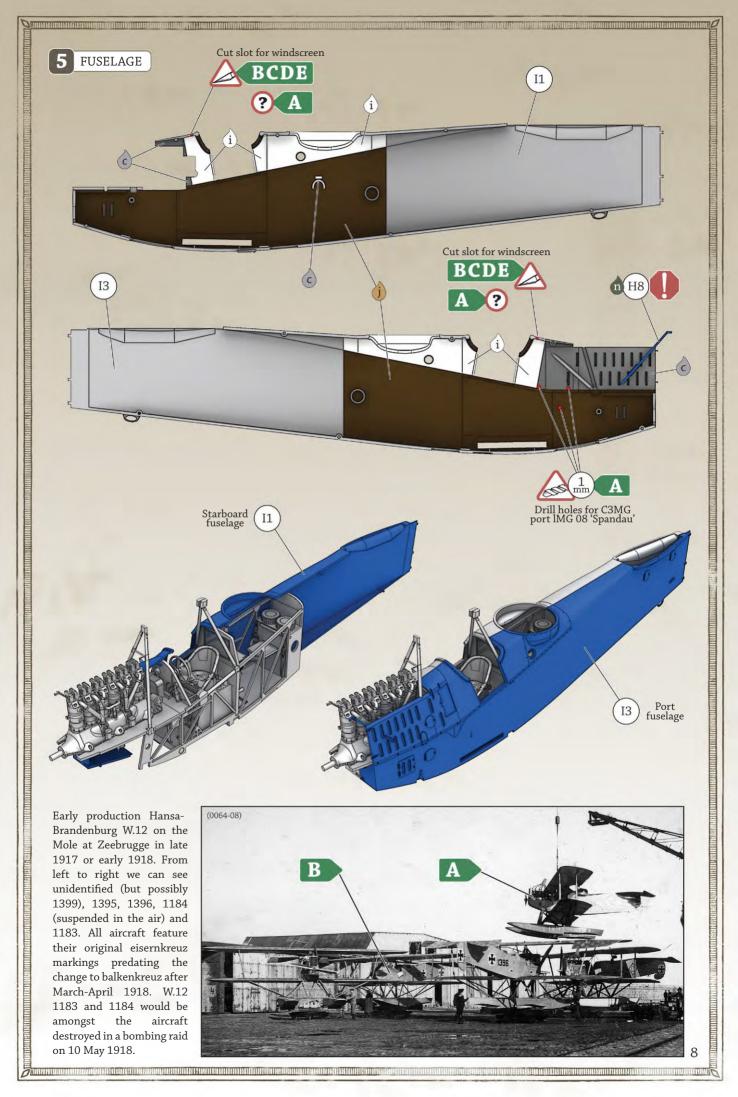
ANNINITARALITATI

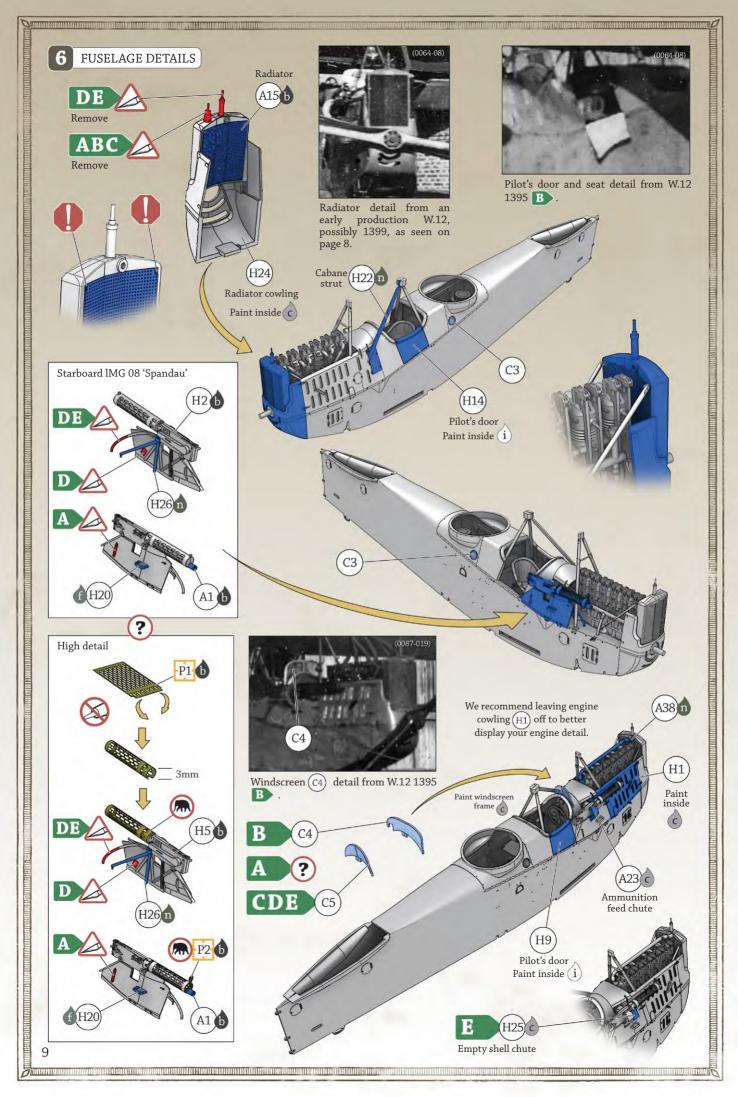


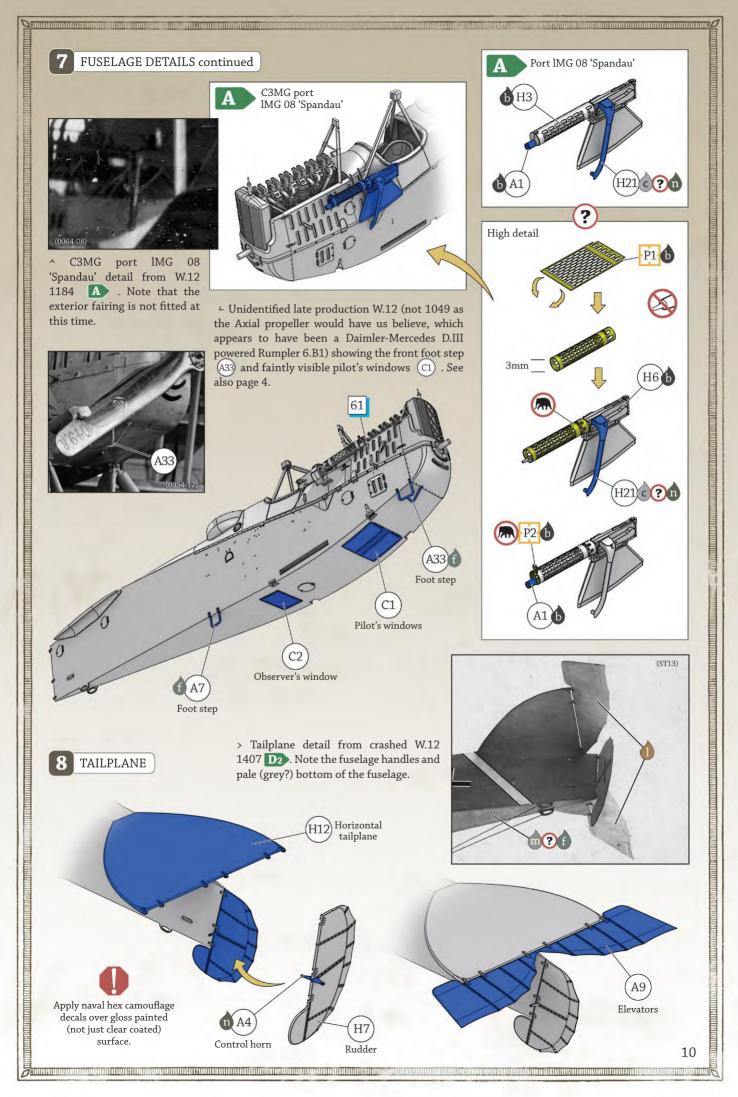


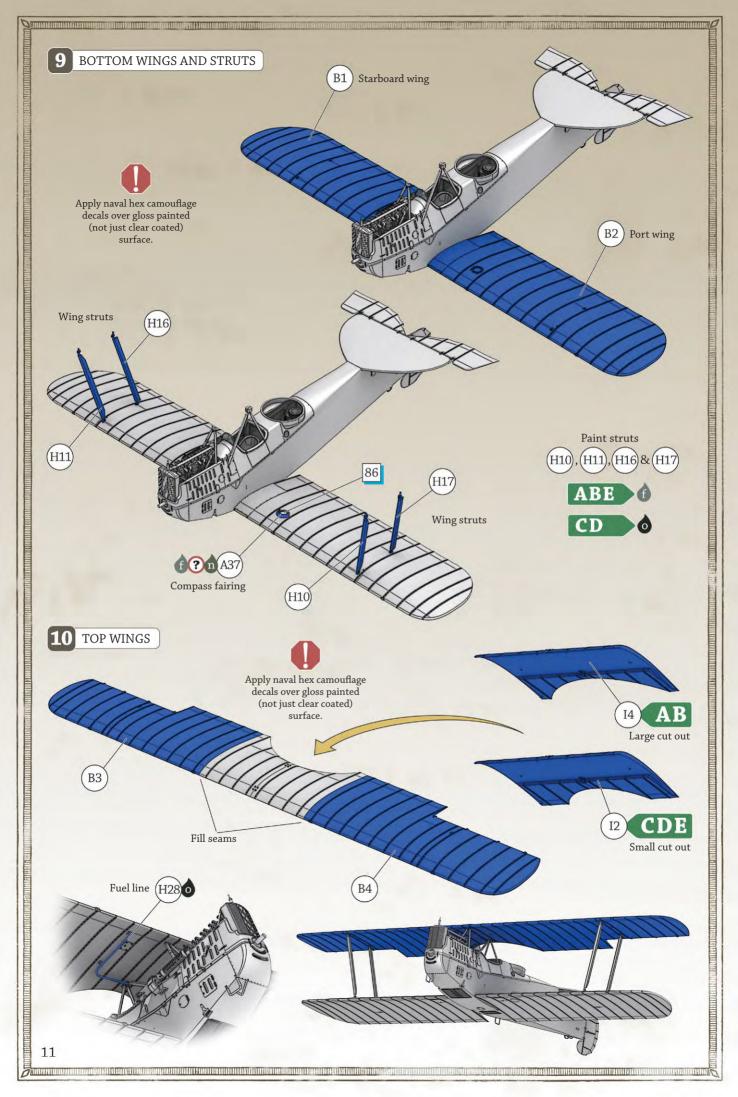


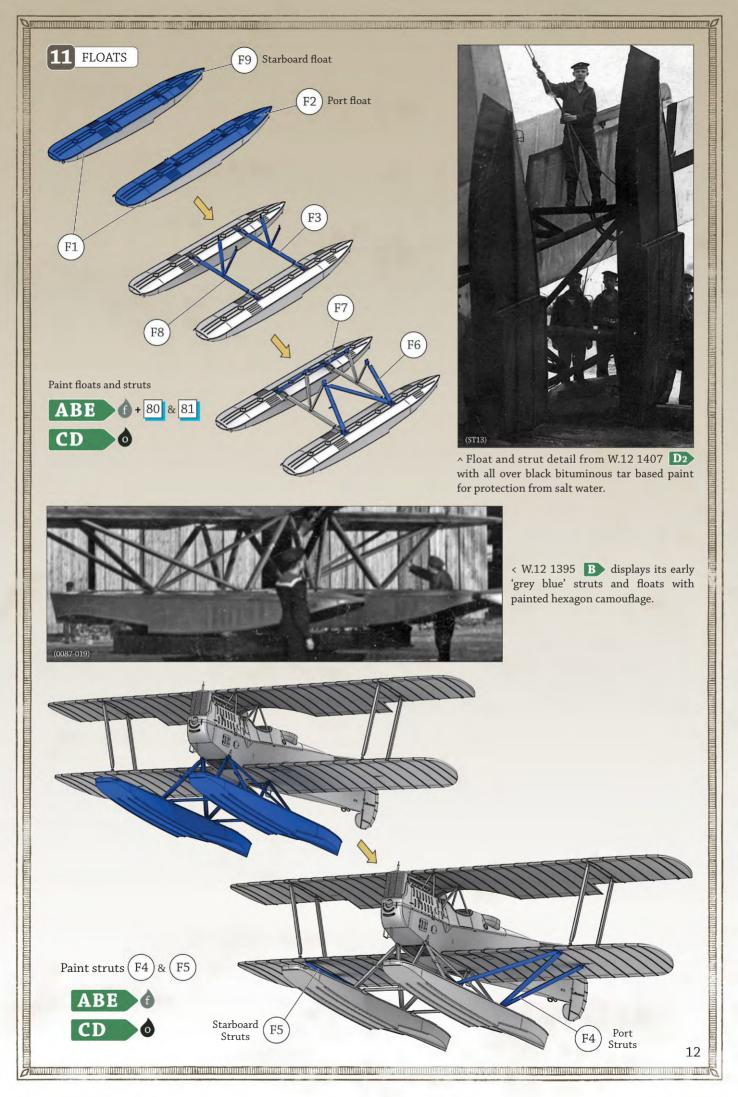




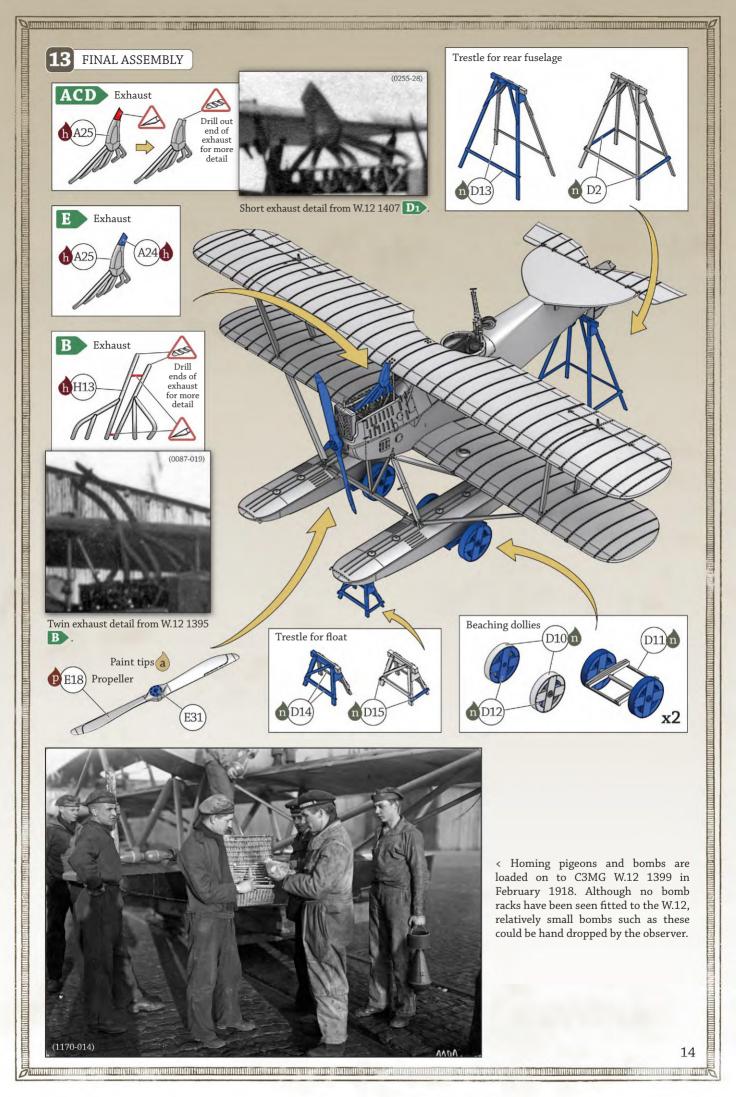


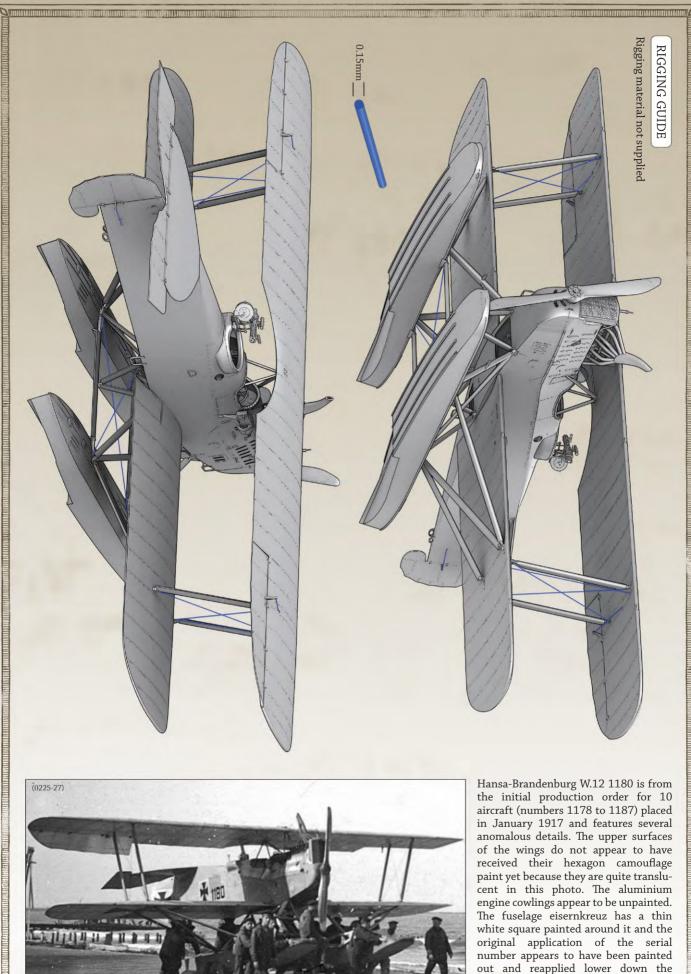




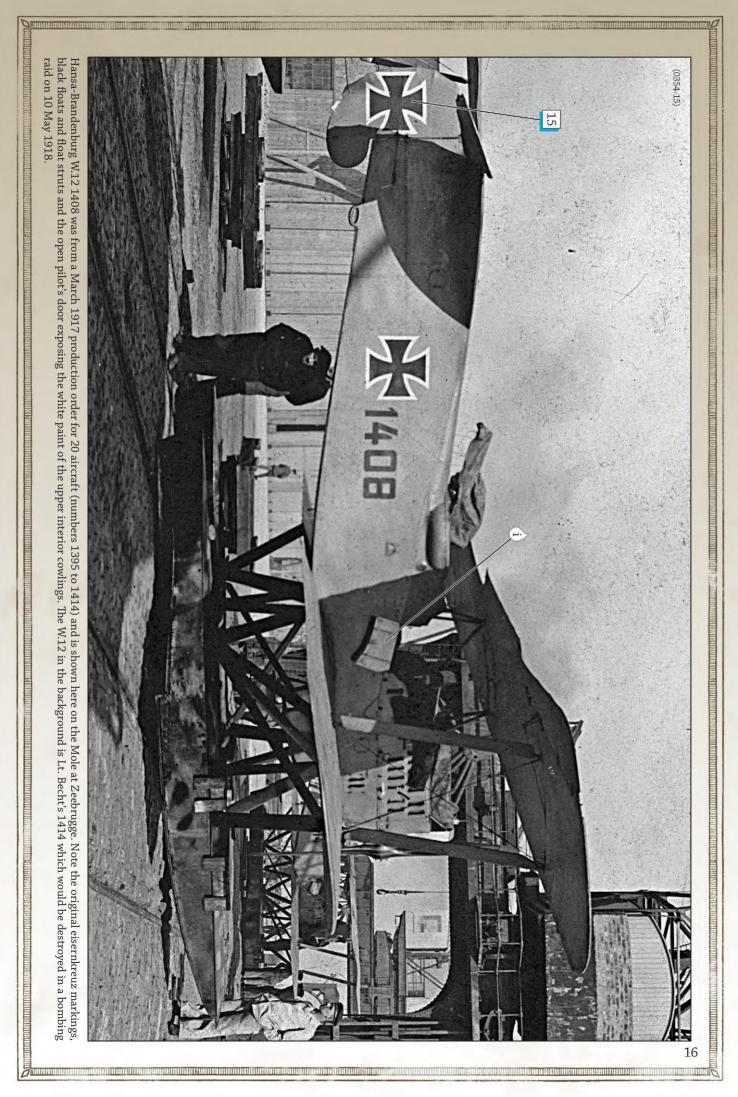


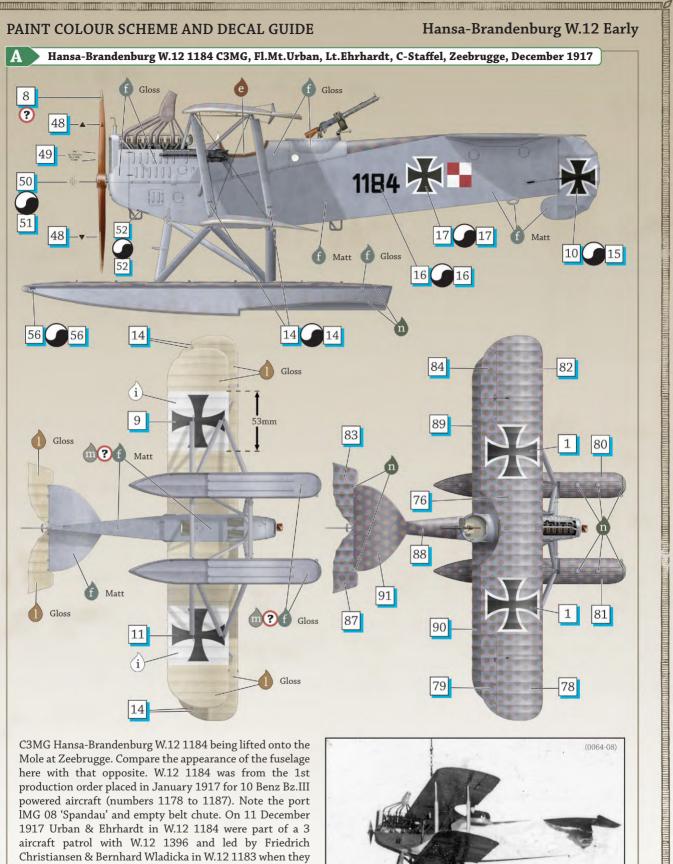




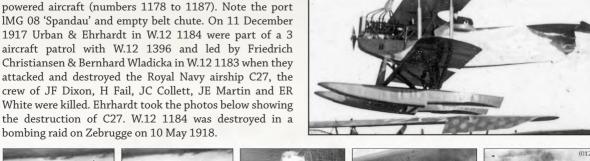


out and reapplied lower down the fuselage. While the rudder eisernkreuz appears to have a square white field the bottom wing crosses do not. Note the central filler tube on the radiator.

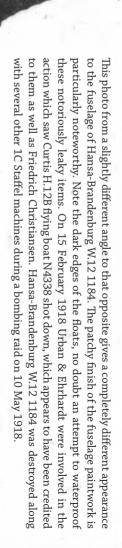




White were killed. Ehrhardt took the photos below showing the destruction of C27. W.12 1184 was destroyed in a bombing raid on Zebrugge on 10 May 1918.







AND IS SALE AND THE PARTY OF THE PARTY OF

IL SAMANATIN A DA TARA TARA TARA

16

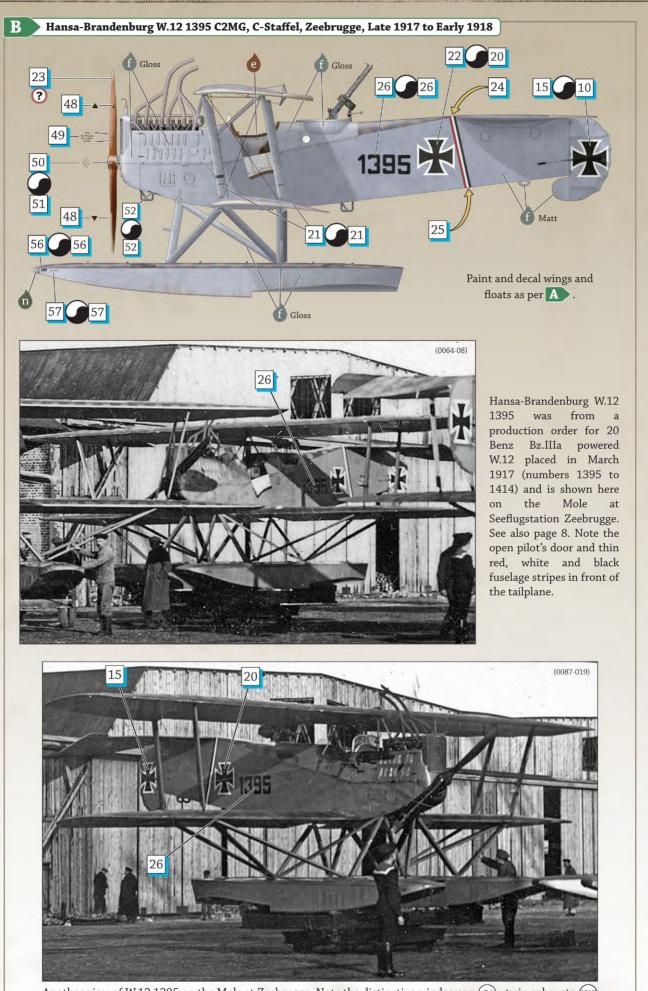
17

THIN PRIME

(0087-019)

A

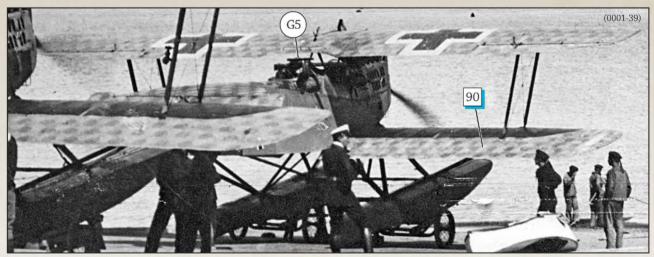
I AND IN A COLOR



Another view of W.12 1395 on the Mole at Zeebrugge. Note the distinctive windscreen (C4), twin exhausts (H13) and how the change in lighting makes the fuselage and floats appear much darker than shown in the photo above.



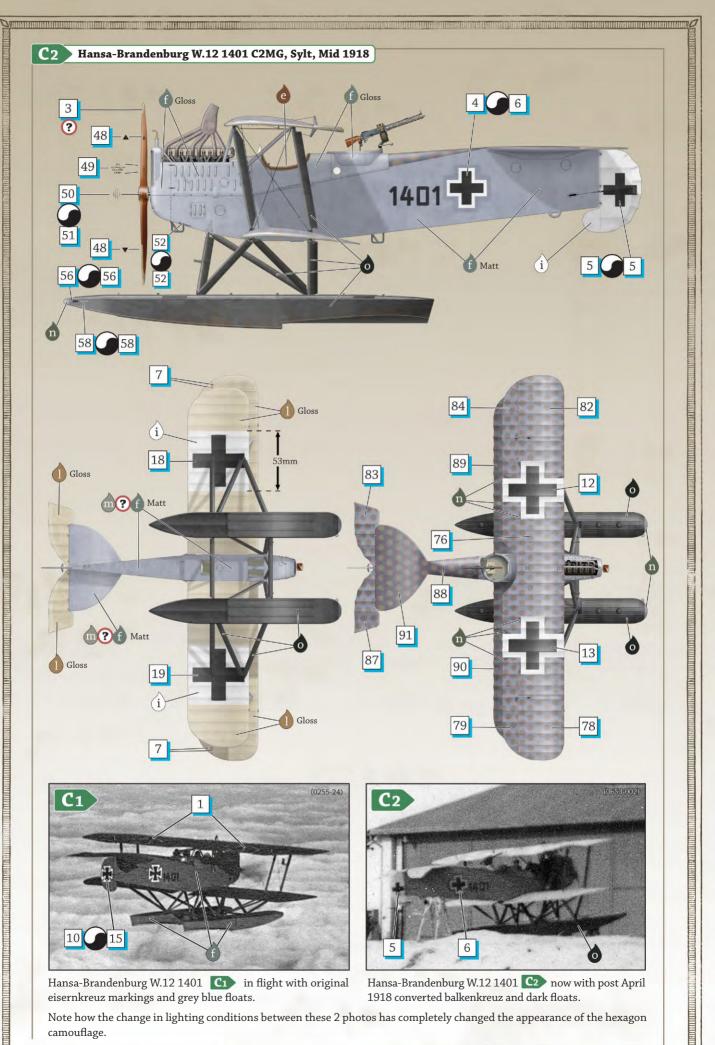
Hansa-Brandenburg W.12 1402, from the 2nd production batch, features converted post June 1918 'thin arm' balkenkreuz on the fuselage (tidied up with light grey paint) and rudder (now painted white) while the top wing crosses remain the interim post April 1918 'fat arm' style. The cables visible on the top wing were for lifting the aircraft with a crane. Note the darker repainted area on the side of the fuselage below the observer's cockpit.



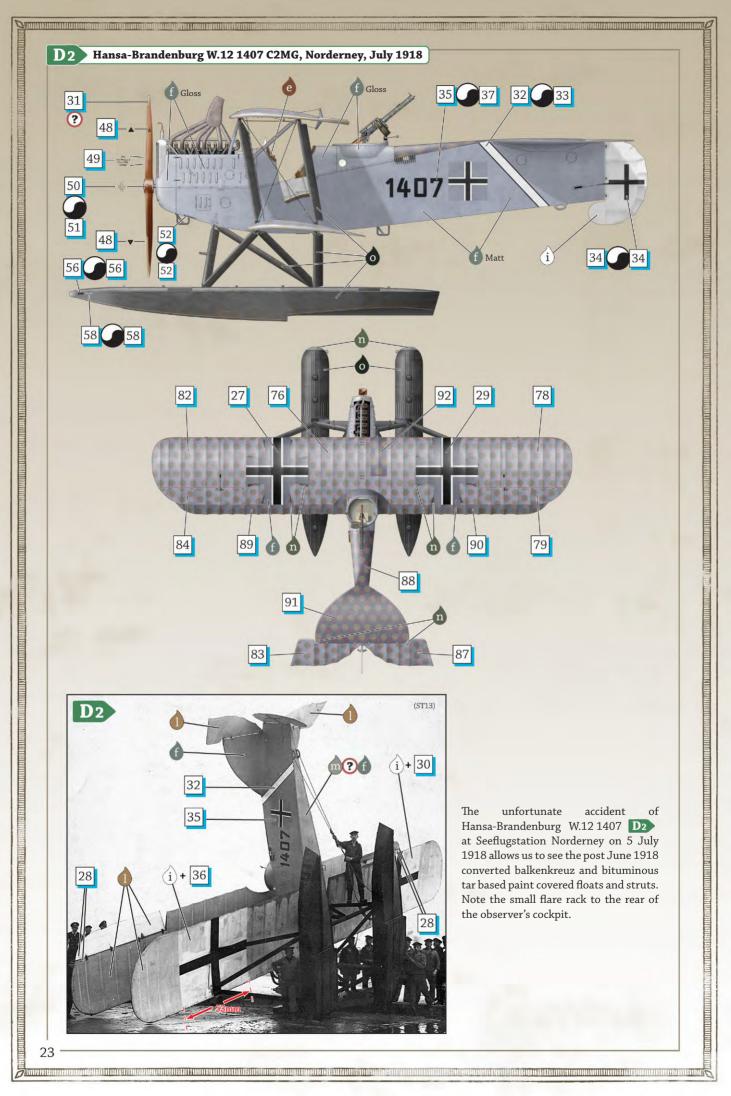
This unidentified Hansa-Brandenburg W.12, possibly 1401 **C**₃, appears almost identical to 1402 except that a darker paint has been used to tidy up the post June 'thin arm' fuselage balkenkreuz. Note the black floats, Oigee sight (G5) fixed to the observer's Parabellum LMG 14 machine gun and small bar fitted to the rear of the top wing cut out.



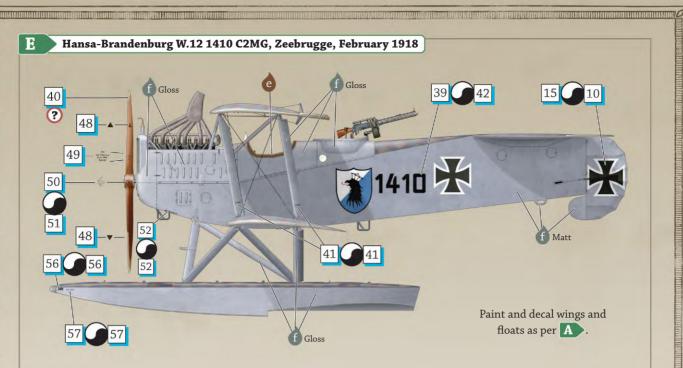
Hansa-Brandenburg W.12 1186, from the 1st production batch, is set adrift ready for a patrol. Note how the painted hexagon camouflage appears darker on the wings and elevators of 1186 compared with the 2 aircraft above.



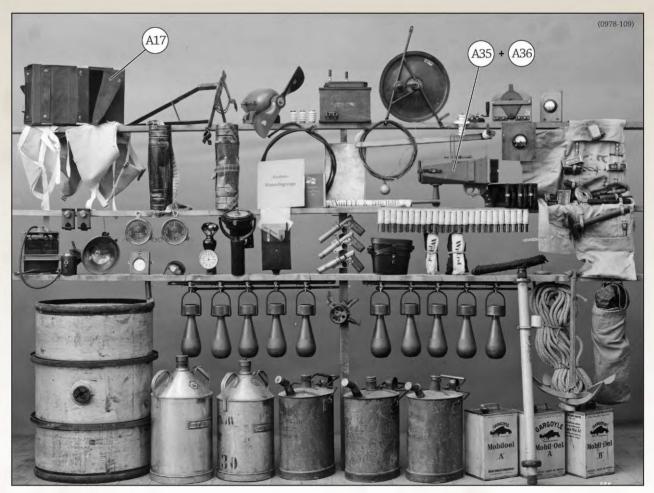




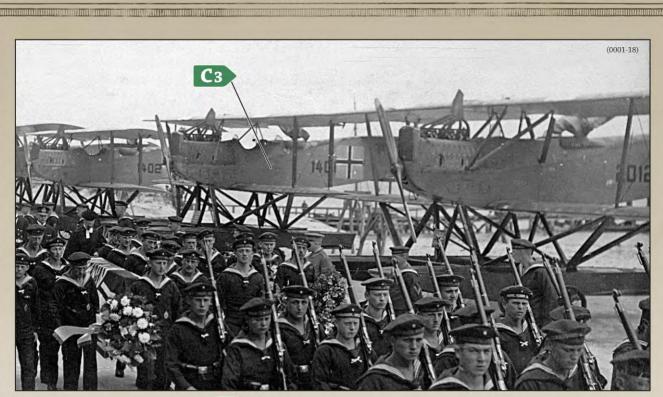




Hansa-Brandenburg W.12 1410 was ordered in March 1917, delivered in November 1917, photographed in these markings in February 1918 and written off in April 1918. Two photos of W.12 1410 are featured in Windsock Datafile 61, one of which confirms the unusual empty shell chute (H25). Although the identity of the crew of W.12 1410 is unknown to us they are almost certainly the same as for Hansa-Brandenburg W.29 2530 stationed at Zeebrugge (see Wingnut Wings model 32010).



Some of the equipment that could be carried on German Navy aircraft in the Great War, only some of which are applicable to the Hansa-Brandenburg W.12. Note the fuel & oil cans, small bombs, flare pistols, tools, compass and binoculars etc.



Early production W.12 1402 and 1401 C3 line up with late production W.12 2012 for the funeral of Seeflugstation Putzig commander Karl von Gorrissen at List, Westerland, on the island of Sylt northern Germany in mid July 1918. Note converted post June 1918 'thin arm' balkenkreuz visible on the fuselage of 1401 and its dark wing struts.



3-D Modelling by Darren Mildenhall

Born and raised in Wellington, New Zealand, Darren harnessed his creativity by attending the School of Design, graduating with a major in Industrial design. During the degree he developed a passion for form and the aesthetic

appeal of a product and how to utilise CAD software to realise and develop a concept. Joining Wingnut Wings as a 3D modeller has furthered his skill in these areas through the creation and manipulation of complex 3D forms.

When not designing WW1 model aircraft, Darren enjoys graphic based art and t-shirt design, a lot of which is influenced by his interest in pop culture, typography and the retro 1950s. Outside all that, Darren is a self confessed movie buff and sports fan.



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 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 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

(better 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.



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 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

Historic aircraft photos courtesy of the 1914-18 Aviation Heritage Trust and Colin Owers (unless credited otherwise).



32036	1/32 Hansa-Brandenburg W.12 Early	Qty
0132036A	A parts	1
0132036B	B parts	1
0132036C	C parts	1
0132010D	D parts	2
132E0009	E parts Benz Bz.III engine	1
0132036F	F parts	1
132G0001	G parts Parabellum LMG 14	1
0132036H	H parts	1
0132036I	I parts	1
0132036P	Photo-etched metal parts	1
7132036	Instructions	1
9132036a	Decals	1
9132036b	Naval camouflage decals	1

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



32016 - 1/32 Sopwith Pup RNAS



32015 - 1/32 Albatros D.Va



32020 - 1/32 Sopwith Snipe Early

Also available from www.wingnutwings.com

©2014 Wingnut Wings Ltd. PO Box 15-319 Miramar, Wellington 6022 New Zealand. All rights reserved. Designed in New Zealand - Manufactured in China.

PUBLIC