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**INTERNATIONAL**

**JAGDPANZER 38(t) Sfl**  
TAMIYA'S STEYR TYPE  
1500A/01 CONVERTED  
TO A JAGDBOMBER  
DEFENDER

**INSIDE**

**Tamiya 1:12 Yamaha XV1600, Zvezda Yak-130, 1:8 McLaren  
MP4/4, plus new kits, books and modelling accessories...**

DOOLITTLE  
MEDIA



93



# TOYOTA GR Supra



Japan Version



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## Pure Modeling Bliss

**1/24**  
SCALE

### 1/24 Sports Car Series TOYOTA GR Supra (Item 24351)

Announced in January 2019, the TOYOTA GR Supra is a pure sports car whose design team have painstakingly engineered the wheelbase, tread and center of gravity to ensure that its driver enjoys superlative balance and handling like a dream. Now, you can own it in detailed Tamiya 1/24 scale as it joins our famed 1/24 Sports Car Series. The sensuous long nose, short deck form with striking bubble roof is recreated in style, with black body sections molded as separate parts to ensure an easier paint job – whatever the color! Red areas of the sporty interior are depicted by white parts to let you achieve a striking shade of red, while the underside and suspension are rendered with realism. The result will be a super stylish, cutting edge addition to your model collection!



Covers

The car's extensive underpanel is depicted, as are front and rear suspension, plus rear arm aero covers.



Two-part wheels feature metal plated component.



The form of the car is elegantly depicted in 1/24 scale, with metal transfers and masking stickers included in the kit. Choose to assemble as right- or left-hand drive. ① Separate parts depict grilles and spoiler. LED headlight depictions feature clear internal components. ② Realistic interior uses white parts to be painted red.

Components marked with  
★ are separate parts.



★ Faux grille ★ Spoiler ★ Grille



U.S. Version

★ A pillar

★ Faux grille

★ Diffuser

★ Side skirt

Length: 183mm, width: 85mm, height: 54mm.



②



Length: 194mm

### A Racer Covered in Glory

The triumphant TS050 HYBRID endurance racer from the 2018-2019 season is also available in detailed Tamiya 1/24! ★The honed form with multiple aero parts is recreated with great accuracy. ★Cockpit features metal-plated roof and detailed interior. ★Decals allow creation of No.7 or No.8 car from final race of 2018-2019 season. ★Metal transfers depict headlight LEDs and side mirror surfaces.

### 1/24 TOYOTA GAZOO Racing TS050 HYBRID 2019

(Item 25421)

LIMITED EDITION



★Images show assembled and painted kit.  
★Product may vary from images shown.

Check Tamiya's homepage for the latest releases! [[www.tamiya.com](http://www.tamiya.com)]





### 34 ACHTUNG JABOSCHRECK! THE STORY OF A BOASTFUL BEAR

Tamiya's 1:35 Steyr Type 1500A/01 gets converted to an anti-aircraft flak truck



# Model MAGAZINE INTERNATIONAL

Issue 293 March 2020

EDITOR Marcus Nicholls  
editor@tamiyamodelmagazine.com

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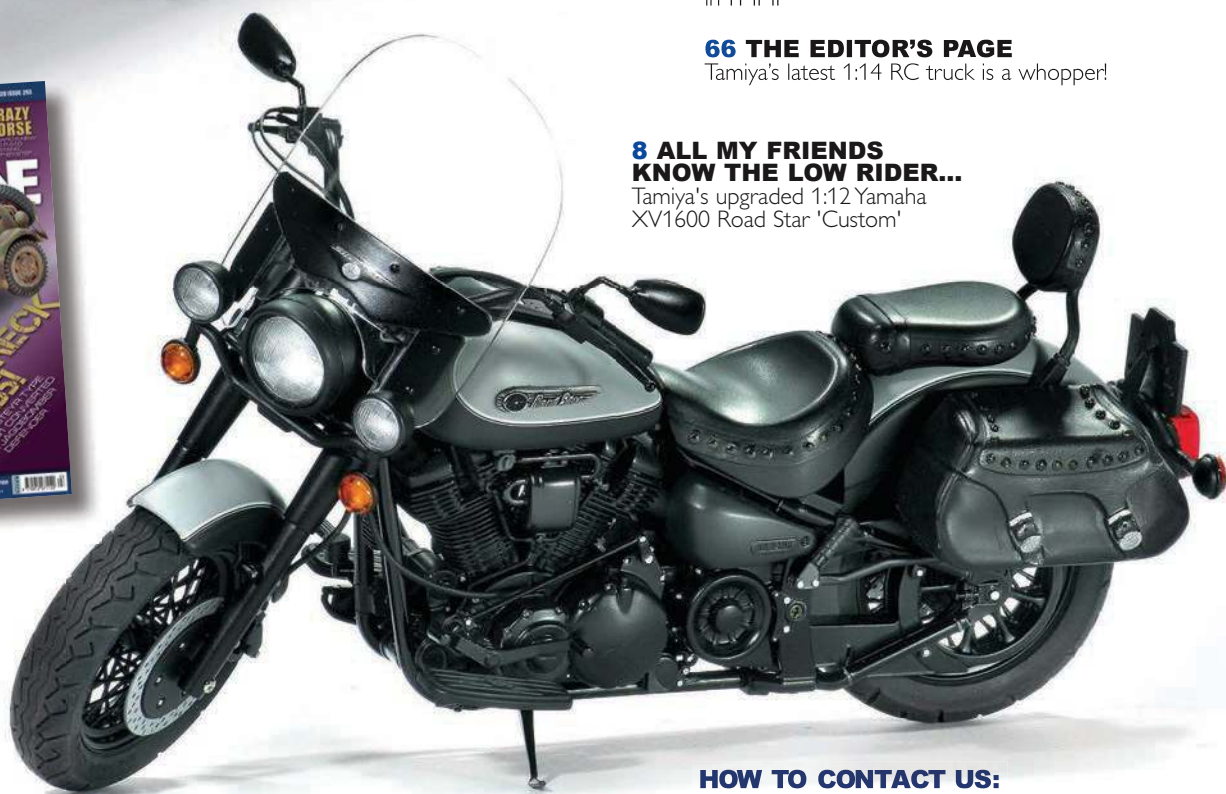
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## NEW TAMIYA RELEASES FROM THE 2020 NUREMBERG TOY FAIR!

This year, Tamiya showed off three all-new tank kits plus one new car kit:

- 1:24 Ford Mustang GT4 (new-tool)
- 1:35 Soviet Heavy Tank KV-1 Model 1941 Early Production (new-tool)
- 1:35 French Light Tank Renault R35 (new-tool)
- 1:48 Russian Medium Tank T-55 (new-tool)
- 1:12 Porsche 934 Vaillant (w/photo-etched parts)

Full Nuremberg show report next issue!

[www.hobbyco.net](http://www.hobbyco.net)



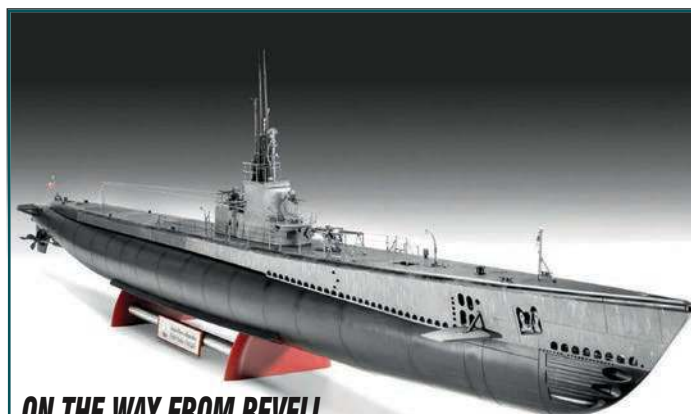
## ON THE WAY FROM ITALERI - New-tool kits for 2020

On the way from Italeri of Bologna, Italy, is an all-new 1:12 Lancia Delta HF Integrale 16V and in 1:35 a Semovente M42 75/18. Fabulous Italian subjects for us to enjoy! [www.hobbyco.net](http://www.hobbyco.net)



## ON THE WAY FROM ZVEZDA - New-tool kits for 2020

- 1:35 Pantsir S-1 (SA-22 Greyhound) Russian anti-aircraft system
- 1:72 SU-85 Soviet self-propelled gun
- 1:350 'Tula' Delfin/Delta IV class Russian nuclear ballistic submarine



## ON THE WAY FROM REVELL

### 1:72 US Navy Gato Class Submarine Platinum Edition

Revell's stunning 1:72 US Navy Gato Class Submarine gets the 'Platinum Edition' treatment in the form of machined brass periscopes, wooden decking and photo-etched details. [www.revell.de/en](http://www.revell.de/en)



## ON THE WAY FROM TRUMPETER - RMS Titanic - illuminated!

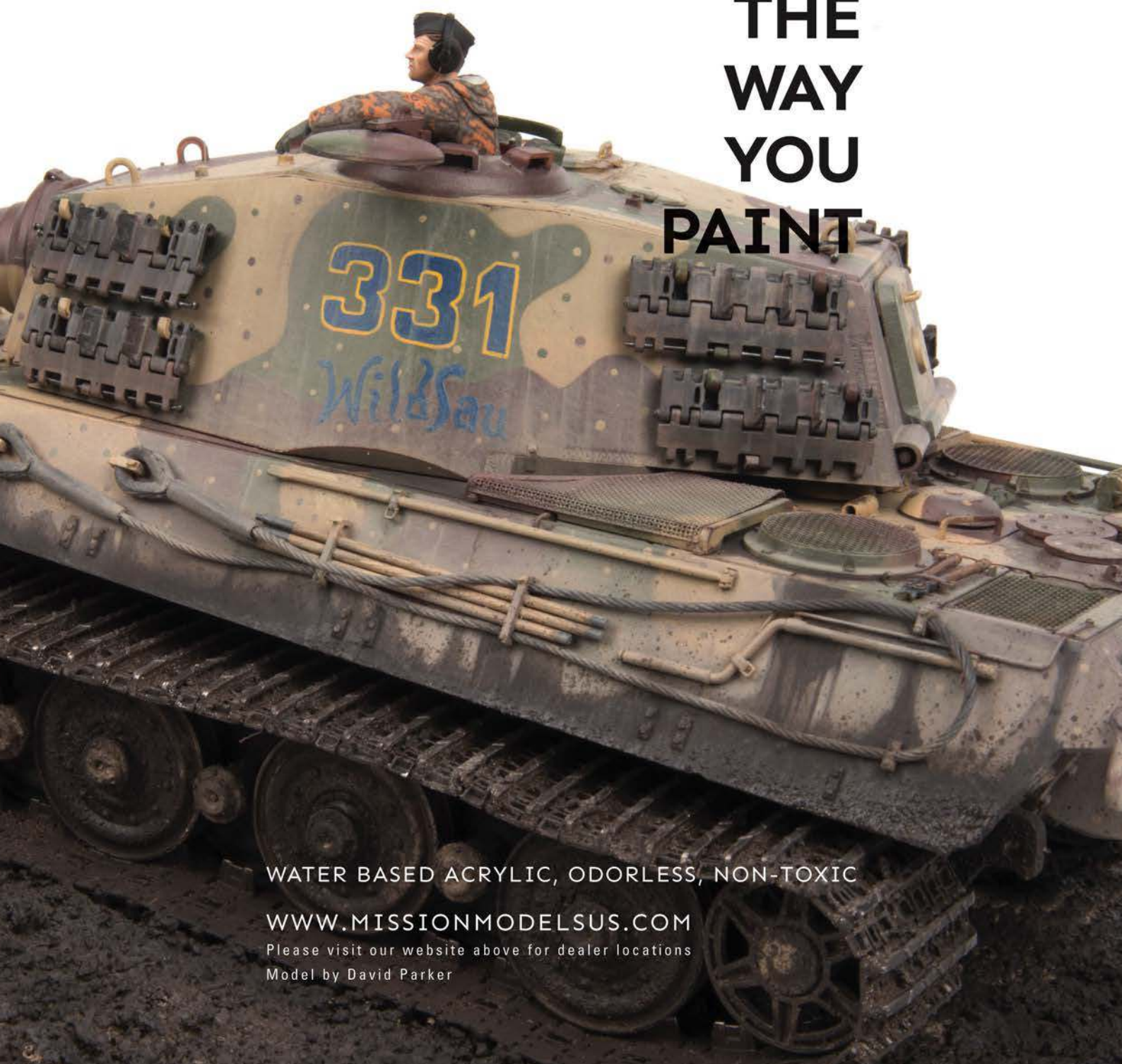
Trumpeter's RMS Titanic is a magnificent production and huge in 1:200; it features a hull-length of 1.347 metres! This edition will come with photo-etched details and an LED lighting system that will bring this amazing model to life. [www.pocketbond.co.uk](http://www.pocketbond.co.uk)



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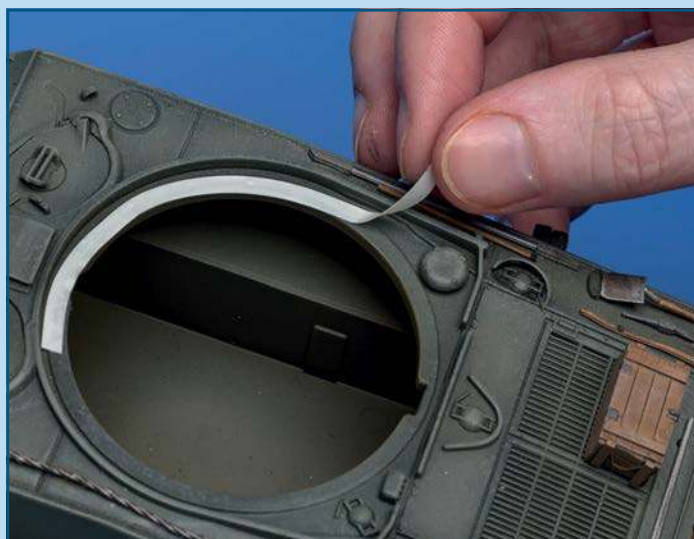
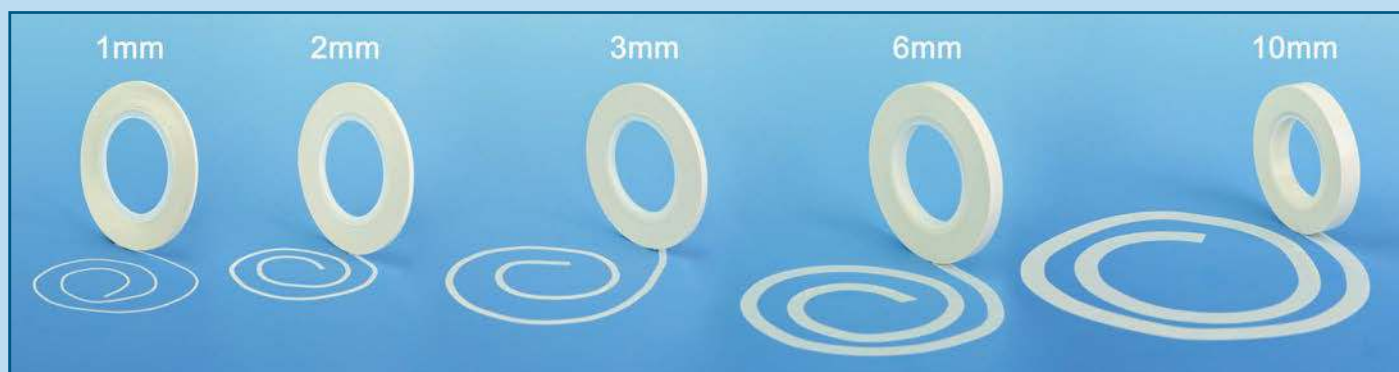
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## FULL-BUILD: MOTORCYCLE MODELLING

TAMIYA 1:12 YAMAHA XV1600 ROAD STAR CUSTOM ● KIT NO.14135





Philippe Devos takes a little trip with Tamiya's upgraded 1:12 Yamaha XV1600 Road Star 'Custom' and adds the all-new Street Rider figure too...

# ALL MY FRIENDS KNOW THE *LOW RIDER...*





## FULL-BUILD: MOTORCYCLE MODELLING

TAMIYA 1:12 YAMAHA XV1600 ROAD STAR CUSTOM ● KIT NO.14135

When cruising the highways on a big, powerful motorcycle, you have the choice: the 'easy rider' mode with one's hair in the wind like Peter Fonda or Dennis Hopper (but we then need oversized forks), or we can go on a long trip, with leather side-panniers for the luggage plus windscreen for extra riding comfort. For this latter mode, Tamiya has re-issued the 1:12 Yamaha XV1600 in 'custom' mode with all the later options now provided as standard.

Even though I prefer these big road-riders without superfluous accessories, ready just to rip up the tarmac with the bare essentials, I was seduced by the moulding quality of the new parts added by Tamiya: the pannier bags are very realistic, the windscreen is crystal clear. Only the rivets moulded on the bags scared me: there are a good hundred of them and it might have meant losing my mind and eyesight by painting them one by one with a brush! So, I chose to replace them with stainless steel pinheads that I darkened with Tamiya X-19 Smoke. I came across a Yamaha XV1600 the other day with its mechanical parts finished entirely in black and with matt grey as a 'colour' scheme. Uninspired by metallic purple or golden champagne, I fell in love with this livery whose sober feel pleased me a lot.

A litre of bleach was enough to start the assembly process by removing the metallic finish on the plated sprues: the newer plated parts require several days of soaking while older ones need just one day to become 'pure' again. This treatment also makes it possible to sand off the moulding-seams of the parts before re-painting them. ●

The chrome sprues were given a bath in pure bleach (take great care) to rid them of their metallic coating. This allows all the moulding lines to be removed



The front and rear mudguards were freed from their little 'skirt' return using a photo-etched saw and increasingly fine grades of sandpaper



After three generous coats of grey primer, the masks that come with the kit were affixed for a personalized, two-colour decoration, grey being one of the two shades



NATO black, in fact an extremely dark grey, completes the livery, creating a sober combo over which the borders of the black/champagne coach-lines fit perfectly, over a layer of gloss varnish. A final layer of matt varnish completes the look



New to this issue of the Yamaha are studded seat and saddle bags and they are a good idea, but painting over a hundred stud heads with a brush is no easy task, so the author decided to replace them with pinheads of the same size. The new heads will be tinted with X-19 Smoke to reduce the shine and match the bike's colour scheme



The moulded studs were slightly flattened by sanding, which made drilling easier to keep the nails aligned



Each pin was trimmed to a suitable length and then fixed with Tamiya Craft Bond PVA glue which is enough to prevent them from slipping out of their hole. A drop of cyano was applied in a second step





The saddlebags underwent the same treatment, but were first painted matt black, which was polished with Tamiya compound. Thus, just the edges acquired a slight shine which suggests the natural wear of the leather due to the friction of handling



The loops of the saddlebags were touched-in with Citadel Boltgun Metal and all the saddlery thus finished, greatly contributing to the visual appeal of the model



Another accessory included with this custom version is the large windshield, which must be handled with care to avoid scratches. Thus the fittings were directly glued to the cluster with a little Craft Bond which becomes transparent after drying and very solid 'handle' for holding the parts



Finally, the last option of this machine are the headlight rack which posed no problem, as per the rear optics. Tamiya PVA glue was used again here, for safe fixing the transparent parts

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## FULL-BUILD: MOTORCYCLE MODELLING

TAMIYA 1:12 YAMAHA XV1600 ROAD STAR CUSTOM ● KIT NO.14135



The only colourful part is the rear shock absorber with this little touch of bright orange, but, despite everything, it is hardly visible on the finished model

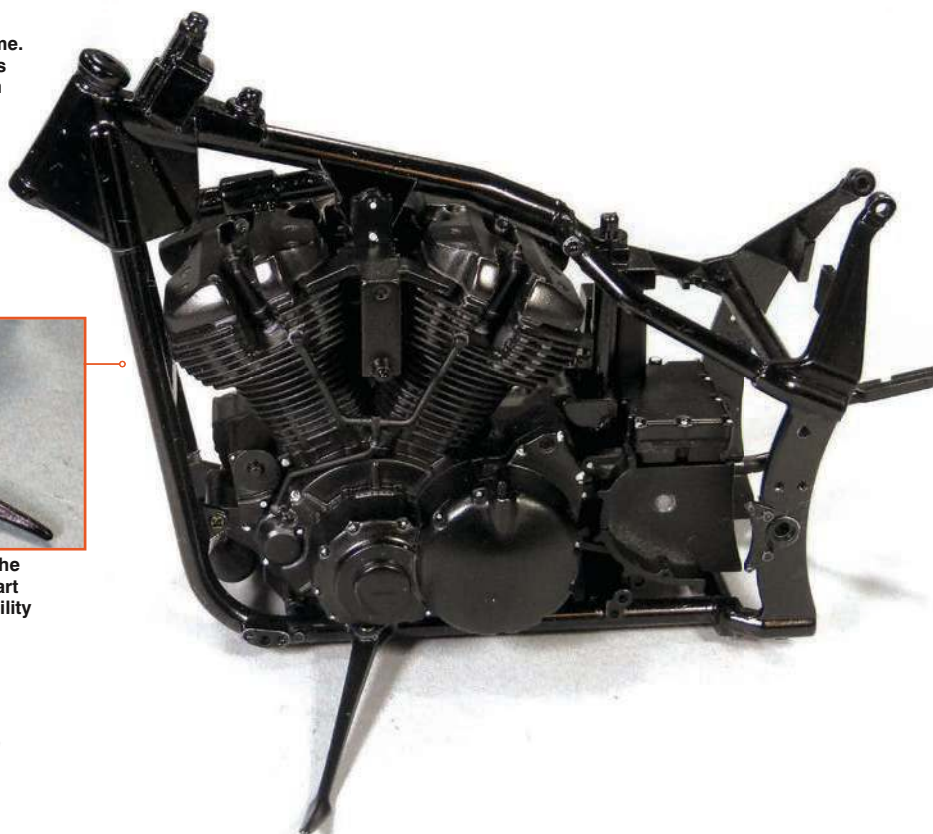
The brake discs will be the only parts to receive a metallic finish, in this case TS-83 Silver. The masks were made with an Olfa compass-cutter



The traditional 'family photo' looks rather monotonous in this low-key colour scheme. But a motorcycle cruiser in these tones is becoming more common these days with many circulating our streets; the trend is towards sobriety it seems



Before installing the engine in the frame, it is necessary to fix the stand which, very intelligently, is reinforced by a black metal part which will guarantee a reassuring solidity and an effective stability on a small diorama. Tamiya provides a discreet but unrealistic transparent plastic support too







The rest of the assembly calls for no comment; it's Tamiya and there are no bad surprises! Matt black exhaust pipes have a particular class and the contrasts created by the different shades of black give relief to the mechanical areas

The last elements are waiting to be added to the chassis, a few minutes before the bike is finished



## Painting the Tamiya rider figure

### BIKER DUDE

The 'Street Rider' figurine created by Tamiya is absolutely magnificent; their 3D technique is devilishly effective. To paint it, I contented myself with airbrushed flat paints highlighted by a colour-wash of Tamiya Panel Line Accent Color Panel Line (Brown) for the trousers, a little polish for the jacket and a few shadows on the face, all sealed with a layer of very matt varnish (except the jacket). Even I was amazed by my work! His sweatshirt became a simple T-shirt and no helmet or cap were added to the head; this guy does not have a hair on his head! He's a tough lad and that earned him his nickname of 'Slugger' (as marked on his helmet). Just do not tell him that his big Japanese road cruiser is not as cool as an old American bike, it would upset him! ●

Tamiya 1:12 Street Rider (14137) is available to purchase separately

The pilot figure is very easy to assemble: the joint lines of the parts correspond to the seams or connections that are naturally visible, here, the sole to the shoe. You should not forget the nut that will fix the figurine to its base



The trousers may be jeans but some clothing brands offer light brown colours while keeping the same cut. Suddenly, the author felt great relief that he didn't have to replicate the faded blues of old jeans! Tamiya Panel Line Accent Color (Brown) was used to shade the creases in the trousers. The legs were placed to dry upside down so that the dark 'wash collected at the top of the folds to respect the subject's overhead lighting



## FULL-BUILD: MOTORCYCLE MODELLING

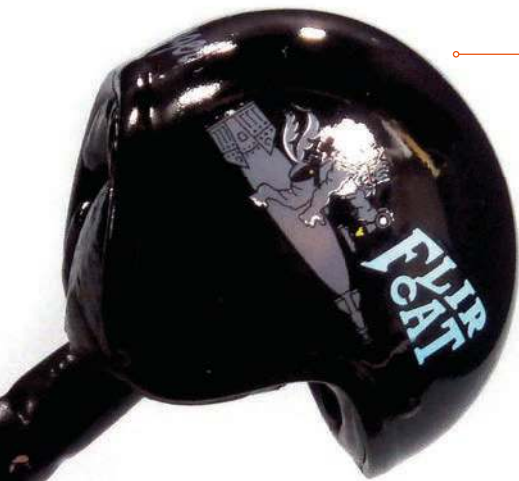
TAMIYA 1:12 YAMAHA XV1600 ROAD STAR CUSTOM ● KIT NO.14135



Helmet or hat? Both headgear choices are offered in the box, but the second one seems rather incongruous for a rider of such a motorcycle. The helmet fits around the head but what a shame to hide such a beautiful skull! He was therefore depicted bareheaded



After applying an acrylic flesh tint, the hollows of the face were gently shaded with an 'earth' tint lightly applied by airbrush (very diluted paint, low airflow rate and reduced pressure). The eyes were intentionally omitted, because there is a nice pair of sunglasses in the box which will be installed later. A layer of very matt 'Prince August' brand varnish unites the colours and makes the character's skin more realistic-looking



Decals from an Italeri F-14 Bombar were hijacked to give the helmet a provocative look, with bomb logos and the pilot's name 'Slugger'. The helmet will then receive a matt varnish



### TECHSPEC...

Tamiya 1:12 Yamaha XV1600 Road Star Custom kit No.14135

#### Materials;

Injection-moulded polystyrene, 'chrome' plated plastic, synthetic rubber (tyres), vinyl tubing, screws, metal pins, masks, water-slide decals

#### Paints used:

- Tamiya Sprays: White Primer, Grey Primer, TS-14 Black (Gloss), TS-29 Semi-Gloss Black, TS-6 Flat Black, TS-83 Metallic Silver, TS-63 NATO Black, TS-13 Clear, TS-79 Semi-Gloss Clear, TS-80 Flat Clear
- Tamiya acrylics: XF-85 Rubber Black, X-26 Clear Orange, X-25 Clear Yellow, X-19 Smoke
- Tamiya Panel Line Accent Colors: Black, Brown, Grey
- Citadel: Black, White, Mithril Silver

#### Accessories used:

Tamiya: 1:12 Street Rider figure (14137)

#### Availability;

Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)



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Model by Wayne Hui

Model by Jeremy Moore

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# ONE STEP AT A TIME, PT.3

*...continued from TMMI issues 233 and 236*

**Carl Robertshaw** resuscitates his 'diary-build' of the stunning 1:8 1988 Ayrton Senna McLaren Honda MP4/4 from DeAgostini

**N**ow DeAgostini's 1:8 McLaren MP4/4 has been available for some time, you can now buy the complete set of instalments in one hit, for £100 less, which makes more sense to anyone wanting to build the model practically. As soon as I received the remaining boxes, I filed all the parts in their numbered bags in order, and then catalogued the instructions labelling them with the areas they cover in the build. Easy to do and saves so much time searching. It also means I can tick off what's done. My plan was to re-order the build differently from the instructions to something more familiar





to what you and I understand as logical process, instead of jumping all over the place as DeAgostini would have you do!

Having constructed some of the kit, my intentions expanded to detailing up some parts and make this a more personal build to suit my level of expectation and ambition, taking it from a toy version with mediocre detail to something in the realms of a proper scale model, something we are used to seeing within this publication. After such a long interlude between article instalments, I was already seriously falling out of love with the idea of this build and I had to dig very deep

indeed to find some, any, motivation or reason to complete the model. I found inspiration from three people. While looking around the competition tables at SMW Telford with Marcus Nicholls, our illustrious Editor, weathering on some of the race cars and bikes caught our eye and this became an attractive proposition for my build. A friend of a friend also started a new job at McLaren, and maybe, just maybe, there would be a link there, directly to McLaren? The third and most obvious inspiration came in the form of Senna himself. He said in an interview for *Racing is in my Blood* in 1991:

*"I believe in the ability of focusing strongly in something, then you are able to extract even more out of it. It's been like this all my life, and it's been only a question of improving it, and learning more and more and there is almost no end. As you go through you just keep finding more and more. It's very interesting, it's fascinating."*

So, with all that in mind, I made the commitment to persevere and see this build through to its conclusion. ▶



Please note, certain sponsors' logos have been obscured on this model to comply with rules about advertising tobacco products





Dry brushing with a Humbrol enamel was used to bring out the moulded detail on the gearbox. I prefer enamel paint for this because you can temper the effect with white spirit on a cotton tip.

The outstanding brake assemblies were built up as little sub assemblies to complete the set. Rather than build them as disparate modules it's more pragmatic to build them together.



Clamping the outer gearbox structure.

## THE GEARBOX IS NEXT

(STAGE 35/PACK 11)

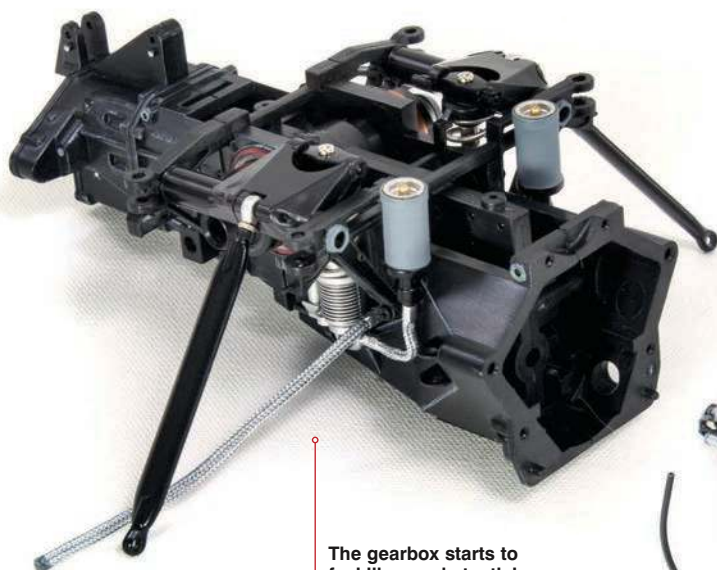
Drybrushing left and right gearbox plastic parts brings out the moulded detail. The hex nut-heads were touched in with silver. The construction follows - the copper coloured Inner CV joints screw into the gearbox l/r, then the engine oil line is glued into the left gearbox section. I touched this part up with Tamiya XF-63 German Grey and X-11 Silver to make more of the detail. Assembly of only these five parts is covered by three full pages, with nineteen photos to instruct you!

## ASSEMBLING GEARBOX 2

(STAGE 36/PACK 11)

The two gearbox inners are glued together to make a sandwich that forms the inner structure to affix the rest of the gearbox around and small clamps are used to keep the joint firm while the glue cures. I also glued the shock reservoirs at the same time. The seams were dealt with and a uniform grey/aluminium colour painted on them to spruce them up. The reference photo in the instructions of the real car shows

them as more detailed than they are supplied in the kit and with the correct variations in silvers of these parts. (Noticeably, DeAgostini aren't focusing on their own references closely and so we should be aware, and prepared to make corrections along the way) Fixing the outer two parts of the gearbox (including one tiny blue part, the oil line union) with four screws takes up another eight pictures and a page and a half in the instructions.



The gearbox starts to feel like a substantial structure.



Gluing the anti roll bar in place. Rather than hold it as the instruction tell you, I clamped the parts and moved on.





With the gearbox built, the suspension arms, brakes and hubs, etc can be brought together as one sub-assembly.

This gives you a clear idea of the construction of the real car teaching you a little about the actual engineering and workings of this iconic machine.

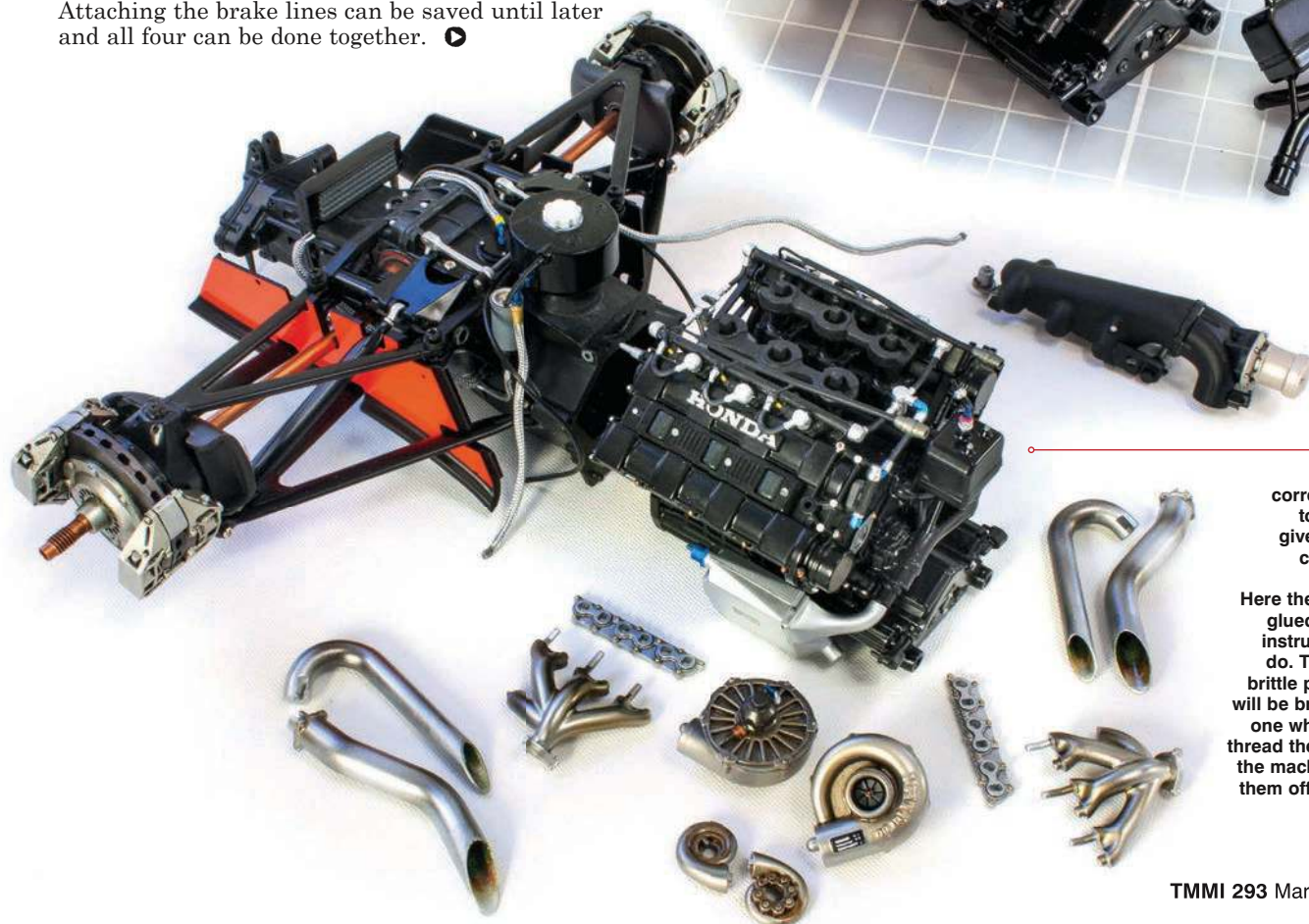
## ASSEMBLING THE ENGINE 2

(STAGE 50 - 53/PACK 15)

Follow the instructions to build the engine block, which is made up from metal parts and is weighty. The plastic moulded parts are nice and quickly you have a decent rendition of the famous Honda powerplant. The manifold and plenum chamber add to the effect and care needs to be taken to line it all up, but it does. Save the radiator housing until later. Stage 53 has you adding the plug covers to the engine block and assembling the header tank. This is very fiddly and you need to scrape paint away in order to glue the parts. Attaching the brake lines can be saved until later and all four can be done together. ▶



Take care when gluing the manifold covers, practice aligning them because their position is a little wayward. They do fit though - with care. With the plenum chamber fixed the Honda engine gets its silhouette.



Placing all the corresponding parts together starts to give some sense of complexity to the engineering. Here the Fuel hoses are glued in place as the instructions have you do. They are delicate brittle plastic parts and will be broken off one by one when you come to thread the wiring through the machine later. Leave them off until the end of the build!





The nose cone decals fit perfectly on the model over the metallic grey base coat.

### ❏ APPLICATION OF THE CARBON FIBRE DECALS TO THE MONOCOQUE CHASSIS AND DUCTS

Having sprayed the carbon decal areas on the monocoque already, there were some blips of dust and tiny hairs that needed sanding out. I used a nail polishing sponge to buff out these intruders. The two large decals were soaked in lukewarm water and set aside on a kitchen towel to activate. A generous soaking of Micro Sol setting solution was painted liberally over the areas to apply the decals. The decals were then ready to be slid from the backing paper to the model. These transfers are quite robust and can withstand some handling which is necessary because the complex shapes the decals have to fit to means you will be manipulating them into place with some intent! ▶



Base coating the monocoque and ducts with metallic grey and smoke. Then on the monocoque alone, clear yellow, with a gloss layer sprayed to prepare for the decals.



The outer grilles are taped to the box structures and left to cure while we can get on with the monocoque.

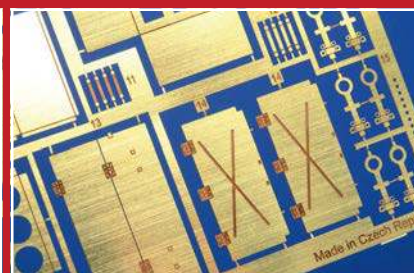
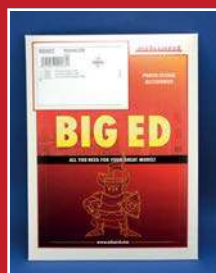


The monocoque is sanded a little to add wear to the underlying paint before the decals are applied.

## Mini Review...

### EDUARD BIG ED 1:35 HUMMEL (BIG3597) FOR TAMIYA

Eduard's 'BIG ED' packs are a great way to save money when buying multiple detail sets for the same model and one of the latest offers an efficient way to gather (almost) all you need for Tamiya's recent 1:35 Sd.Kfz. 165 Hummel SPG kit. In this set you'll find two sets of general details for the interior and exterior, providing tool brackets, handles and other small fittings, plus an extra set that includes the sheet-metal stowage lockers for the main gun's 15cm ammunition. Fantastic detail and a good way to up-detail this already superb kit.







Spraying graduated translucent layers of X-19 Smoke to break up the flanks of the monocoque add the panelled carbon effect.



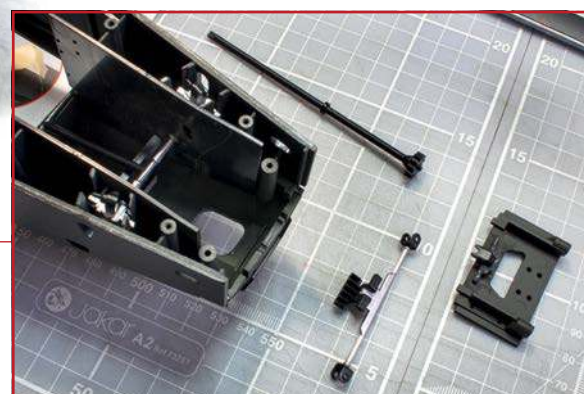
The small screw head decals were also applied one by one.

With the decals successfully on the seat and the ducts they were then sprayed with addition layers of transparent black and yellow. Masking tape strips were added to the seat sides (as per photo references of the real car in action) as a cheat to cover up the creases in the carbon decals!



Laying the monocoque parts out shows the effect this collection will have when brought together as one.

Assembly of the steering - using some mild swearing thanks to the fiddly nature of construction hindered by the unclear instructions. The steering is workable, though its not very robust and easy to break. You can angle the wheels with the steering wheel. On Senna's 1944 Williams car the steering wheel shaft was extended - modified at his request. One theory is the welded section sheared through the extreme torsion forces, causing Senna's fatal crash at full speed at Imola on May 1st that year.





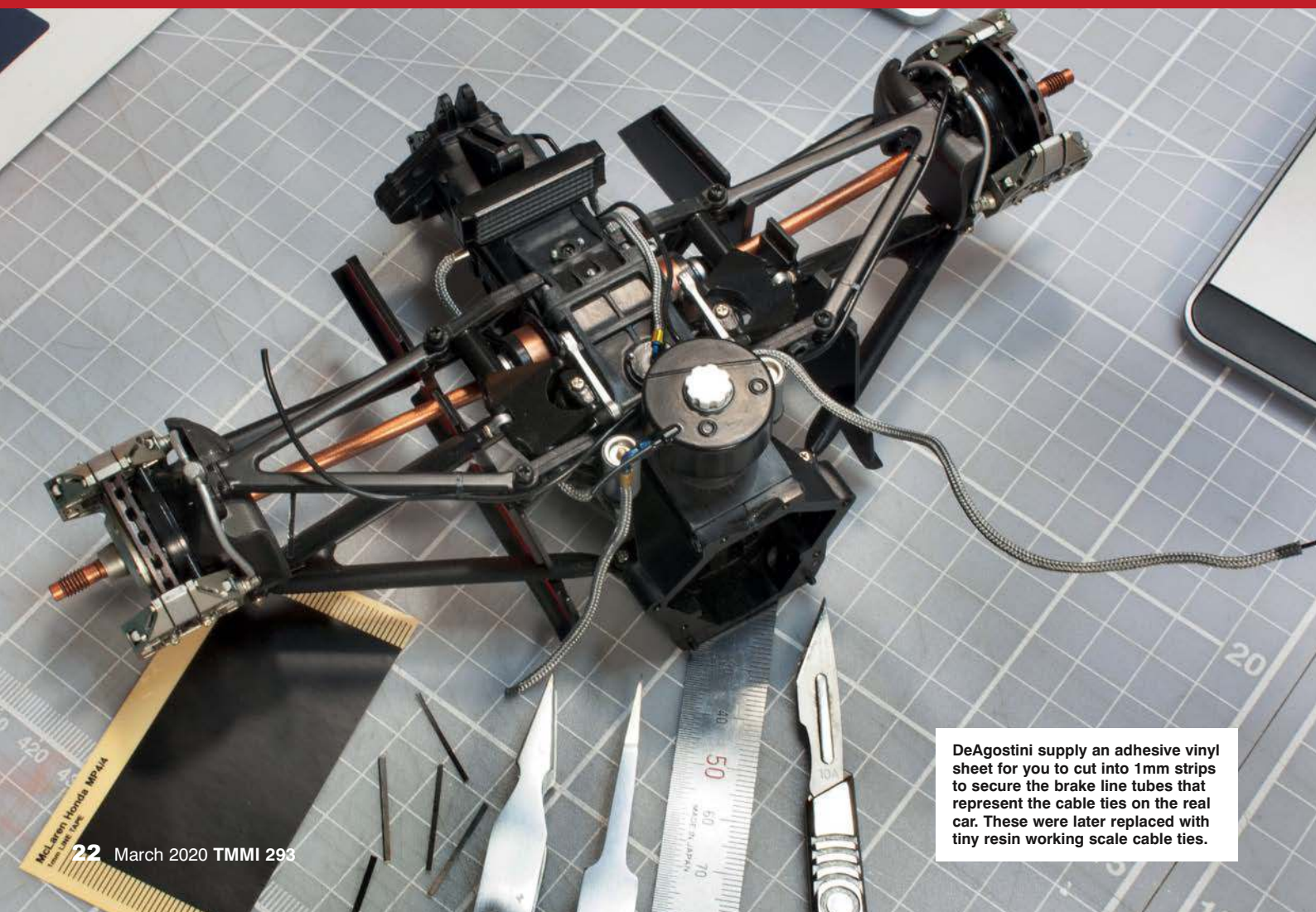
There are raised rounded screw heads that adorn the front end of the chassis. These could cause some issue with the large decals not forming properly over them, but these decals do. With Daco products strong decal setting solution, time and patience, the decals will settle to form a neat finish. At first it all looks scary and just won't happen, but faith and patience and working the solution over the decals to soften (melt) them coaxes them into shape. Cotton buds are used wet (with solution) and then dry, rolled over the surface to massage them. A sharp blade was used to pierce any pesky air bubbles. In all this process took a relaxed four hours on and off. This was all left to dry overnight to bed in. The smaller decals that comprise of the silver screw washer rings and the chassis logos can then be applied. These were then again left to dry overnight. To finish things off it was given a sealing gloss coat. ●

The McLaren project concludes **next issue!**

The master cylinders and steering brakes are straight forward to fit. There is some work to do though to remove the noticeable ejector pin marks from the brackets which are repainted silver. The cylinders are painted and weathered too. The result is a front end that looks acceptable.



The front arms are an all metal affair. Along with the metal brackets this lot is a little fiddly to assemble with the screws, but familiar by now. In retrospect I later replace these screws with miniature hex bolts which would have been better done from the start.



DeAgostini supply an adhesive vinyl sheet for you to cut into 1mm strips to secure the brake line tubes that represent the cable ties on the real car. These were later replaced with tiny resin working scale cable ties.



# Bf 109G-10 Erla

**ProfiPACK**  
edition

**1/48**



W. Nr. 491353, Cap. Ugo Drago, CO of 4a Squadriglia,  
2o Gruppo Caccia, Aeronautica Nazionale Repubblicana,  
Aviano, Italy, February 1945



Hptm. Erich Hartmann, CO of I./JG 52,  
Görlitz, Germany, April 1945



Oblt. Alfred Seidl, CO of I./JG 3, Paderborn,  
Germany, late December 1944



W. Nr. 490655, Lt. Antonius Wöffen,  
CO of 6./JG 27, Rheine-Hopsten, Germany,  
early March 1945



Lt. Friedrich-Wilhelm Schenk, CO of 2./JG 300, Borkheide, Germany, February 1945



**eduard**

Cat. No. 82164 [www.eduard.com](http://www.eduard.com)





# LATE-WAR PACIFIC PONY

**Jeremy Moore** builds Eduard's sublime 1:48 North American P-51D Mustang as a long-range machine and adds some key details along the way

**T**he P-51 has long been one of the most popular aircraft for aviation enthusiasts and modellers alike. It was one of the more successful designs to come out of WWII serving in all theatres of operation as a lethal adversary in

air-to air combat as well as ground attack. One of the more interesting uses of the aeroplane came in the closing days of the war in the Pacific where P-51s flew 'Very Long Range' (VLR) missions escorting B-29s and conducting fighter sweeps





over the Japanese mainland. The aircraft were based on the island of Iwo Jima not long after its occupation; between April 7th, 1945 and August 14th, 1945, pilots of the 7th Air Force flew fifty-one VLR missions scoring 234.5 air-to-air

victories and destroying another 219 aircraft on the ground. Equipped with 110-gallon drop tanks giving the aircraft extended range, it wasn't uncommon for missions to exceed eight hours of flying time which is quite a feat even by today's

standards for a single-pilot, single engine aeroplane. Due to the long distances over open water with few navigational aids, new technology such as the AN/ARA-8 'Uncle Dog' homing radio were developed to help pilots find their way back

to the island. Combined with a network of ships, submarines, and aircraft to rescue pilots who couldn't make it back to Iwo Jima or encountered problems along the way, the mission loss rate was surprisingly low given the circumstances. **C**





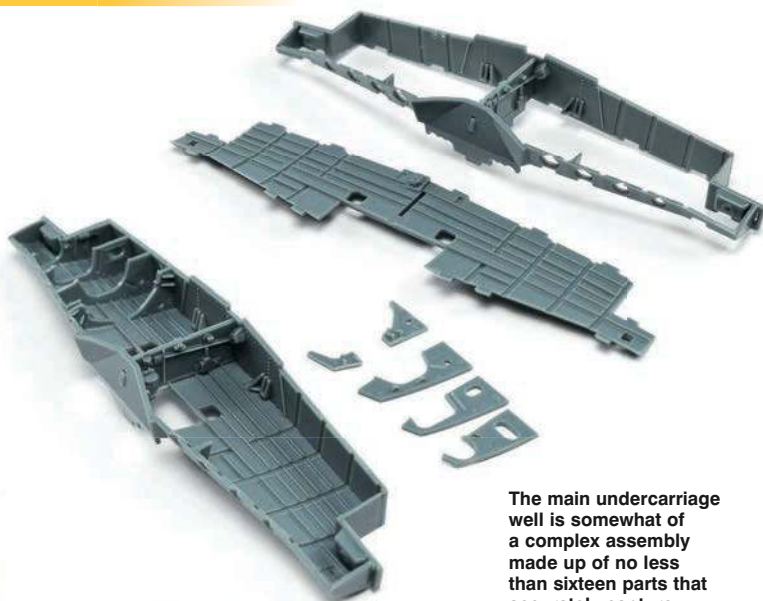
# EDUARD'S NEW-TOOL KIT

Eduard's much anticipated release of the P-51D came in August 2019 in the form of a Limited-Edition P-51D-5 'Chattanooga Choo-Choo' (with fin fillet) kit timed with the USA IPMS Nationals in Chattanooga, TN. The kit proved wildly popular and Eduard reportedly sold out at the convention in a matter of days. Since then they have released an earlier version without fin fillet as well as the Royal Class boxing featuring two complete kits and options abound including VLR drop tanks, HVAR rockets and marking options for fourteen different aircraft. A full line of resin accessories in their Brassin line has also been released to include open wing gun servicing bays, resin cockpit, wheels, exhausts, drop tanks and propellers.

The subject of our review, kit 11134 P-51D-5 'Chattanooga Choo-Choo', consists of 265 parts moulded in grey and clear polystyrene. The overall standard of moulding is exceptionally high with fine panel lines and rivets in the appropriate places. Eduard also made the technical decision to exclude rivets from the upper and lower wing surfaces to assist in replicating the smooth laminar flow wing of the P-51. In order to achieve 100% accuracy a number of panel lines on the wings would also need to be filled to replicate this and we'll discuss that later during the build. Overall the kit is very impressive in all aspects and

has plenty of potential to be a real stunner.

Typical of Eduard's recent releases you'll also find in the box a coloured photo-etched fret, precut painting masks and an excellent decal sheet complete with a full set of stencils with markings for six different aircraft. The decals are printed by Cartograf and are of superior quality in their own right being printed in register with excellent colour saturation. The kit also features plenty of options including seventy-five gallon metal and 108 gallon pressed paper drop tanks, three types of carburettor intake covers, three types of propellers, two different spinners, three canopy types (early, late, and 'Dallas' style), early and late fin-fillets, a full set of underwing HVAR rockets with mounts, extra antennae for the SCR-522 and AN/ARA-8, a SCR-695 IFF radio, as well as both 250lb and 500lb bombs. Nearly seventy parts are marked not for use and with a little knowledge and research it becomes apparent rather quickly that all of the necessary parts in are in the box to build up to the P-51D-20 version of the aircraft. I've been long wanting to build an accurate VLR Mustang, most of which were either P51D-20s or -25s and here was everything staring me in the face! So, without any further delay, let's get started!



The main undercarriage well is somewhat of a complex assembly made up of no less than sixteen parts that accurately capture all of the stringers, formers, and bulkheads



Based on research on the colour of the U/C wells, the author deviated from the instructions and airbrushed the whole wheel well assembly with Tamiya XF-4 Yellow Green with a little X-22 Clear added



Anything marked 'Interior Green' was sprayed with a mix of Mr Color C27 Interior Green and Aqueous Hobby Color H58 Interior Green, thinned with Mr Leveling Thinner

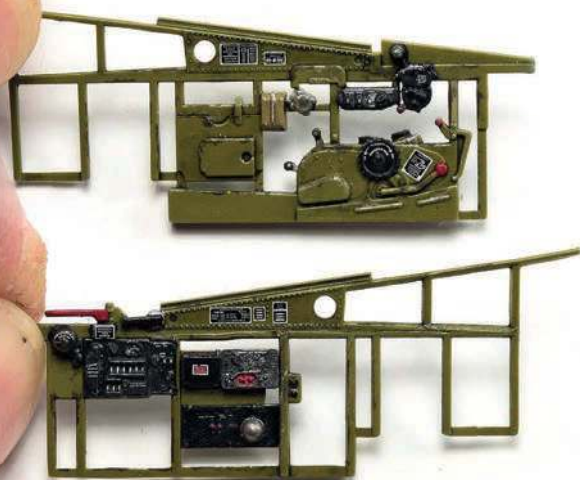




Beginning with the P-51D-20, the battery was relocated forward of the firewall and in its place the SCR-695 IFF radio was often installed. Eduard includes the radio as part H22 and it fits easily in place of the battery. The seat surfaces were chipped with a silver Prismacolor pencil



Cockpit parts marked for 'black' were airbrushed with Mr Paint MRP-255 Night Camouflage WWI, a nice scale black. Details were touched-in out with various Vallejo acrylics. Everything was given light coats of gloss varnish in preparation for the application of BarracudaCals' P-51 cockpit placard decals



The extra time and effort to apply data placards (BarracudaCals P-51D Mustang cockpit stencils and placards (BC48361) is well worth it, as they provide the ultimate detail and make Eduard's already fantastic cockpit even more convincing

## CONSTRUCTION

Rather than begin construction with the cockpit, I wanted a change of pace so I skipped ahead and began with the main landing gear well in step E. It's somewhat of a complex assembly made up of no less than sixteen parts that accurately captures all of the stringers, formers, and bulkheads. It ultimately gets sandwiched in between the upper and lower wing halves so painting is made much easier prior to cementing it in place. My example of the kit had a broken centre support on the lower wing section between the landing gear wells and several online discussion groups and social media pages reported that the problem was rather widespread.

Eduard responded by allowing for replacement parts through their customer service department. The fix, to me, however, seemed fairly easy and I simply removed the broken part and replaced it with a piece of .030 x .030 styrene strip. Based on research regarding the colour of the wheel wells changing during -20 series production, I deviated from the painting instructions and airbrushed the entire wheel well assembly with Tamiya XF-4 Yellow Green with a little X-22 Clear added and thinned with Mr. Levelling Thinner, which is an excellent match for zinc chromate. Some the smaller details such as piping and tubing were then painted with Vallejo acrylics.

The whole assembly was then given a colour-wash of Future Polish, Tamiya XF-1 Flat Black, and water, to bring out all of the excellent rivet detail.

Per the kit instructions, the wheel well was cemented to the one-piece lower wing and allowed to dry. Since P-51 wings left the factory with their wings puttied, sanded and painted aluminium lacquer to gain the most aerodynamic efficiency from its laminar flow wing, I now had a decision to make. Do I follow the same practice on the model or accept the panel lines as-is and soldier on? Since natural metal finishes are notorious for showing any hint of a scratch or surface imperfection, I knew I would be in for a lot of work if I opted to putty them. Ultimately, I swore in the face of common sense and practicality and made the decision to fill the appropriate panel lines on the upper and lower sections using Mr Dissolved Putty. This would become somewhat of a tedious process of fill, sand, check for imperfections and repeat. I also applied several coats of Mr. Surfacer 1500 throughout the process to aid in smoothing out the surfaces in preparation for paint. The process would last throughout construction as I waited for paint or cement to dry. ▶





## ◉ INTO THE OFFICE

Having made a good start on the wings, I went back to the normal construction sequence and began work on the cockpit. Since I wasn't building the kit version of a P-51D-5, a few changes were made in the cockpit layout using extra parts contained in the kit to bring it up to -20 standards. The most notable was in the battery/radio rack directly behind the pilot's seat. Beginning with the P-51D-20, the battery was relocated forward of the firewall and in its place the SCR-695 IFF radio was often installed. Eduard includes the radio as part H22 and it fits easily in place of the battery. The right cockpit sidewall also requires the substitution of kit part H54 for part H56 to add the warning bell for the AN/APS-13 Tail Warning Radar. Additionally, part H4 is added to replicate the IFF control panel.

The remainder of the cockpit was built per the kit instructions, with the only other substitution being a set of excellent Fine Molds ABS seat belts instead of the kit supplied photo-etch. The interior components now complete, I began painting them in their respective colours. Anything marked Interior Green was airbrushed with a mix of Mr Color C27 Interior Green and Aqueous Hobby Color H58 Interior Green thinned with Mr Levelling Thinner. This shade, although it appears rather light at first, darkens into a nice rendition of Interior Green during subsequent weathering steps. Parts marked for black were airbrushed with

Mr Paint MRP-255 Night Camouflage WWI which is a nice scale black and details were then picked out with various Vallejo acrylics.

Everything was then given several light coats of Mr Color GX-100 Super Clear in preparation for the application of BarracudaCals P-51 cockpit placard decals. The extra time and effort to apply the placards – in my opinion – is well worth it as they provide the ultimate detail and make the already fantastic cockpit even more realistic. After the decals were applied, they were sealed with several light coats of GX-100 Super Clear, followed by a detail wash of Ammo by Mig Oilbrusher Starship Filth oil paint thinned with mineral spirits. Some light chipping was also done using a mix of brown and black enamel paints. The bare wood floor under the non-skid surface was depicted using acrylic paints followed by a wash of sand coloured oil paint thinned with mineral spirits. Finally, the seat surfaces were chipped with a silver Prismacolor pencil followed by a rubbing with graphite from a pencil to simulate the worn surfaces of shiny, well-used metal.



The author made the decision to fill the appropriate panel lines on the upper and lower sections using Mr Dissolved Putty



Several coats of Mr. Surfacer 1500 were applied to aid in smoothing out the surfaces in preparation for pain



The kit's wings and rudder were sprayed with a mix of Tamiya AS-12 Bare Metal Silver (decanted) and Mr Color C332 Light Aircraft Grey to simulate the aluminium lacquer applied at the factory

## Mini Review...

**EDUARD 1:48 P-51D-10 LÖÖK, (644030), P-51D WHEELS GROOVED (648514), P-51D COCKPIT (648522)**

Eduard's fantastic new 1:48 P-51D Mustang is, of course, the subject of quite a pile of upgrade parts already, from its own manufacturer. Already available for the kit is an amazing 'Löök' pre-coloured resin instrument panel with detailed dials, weighted resin main and tail wheels plus a full replacement cockpit in resin and photo-etched brass. Perfect-fitting products for those who really want to go to town on their Mustang!





## TAIL-MOUNTED RADAR

With the cockpit complete, it was time to prepare the fuselage halves before closing them up. Although it's not included in this version of the kit, there are locator holes on the inside of the vertical fins for the AN/APS-13 Tail Warning Radar which were drilled out using a pin vice to prepare them for installation of the antennae later after painting. Next the two halves of the retractable tailwheel bay were added and airbrushed with the aforementioned Tamiya XF-4 mix. Any interior areas near the radiator intake and exhaust that might be visible as well as the radiator itself were airbrushed with Mr Color SM-201 Super Metallic Super Fine Silver 2. Finally, the cockpit components were cemented to their respective sides and the fuselage halves were joined with a very precise fit. There is a seam join on the upper cowlings that requires some care as it falls on a panel line just like the real aircraft. Despite my best efforts some of the engraved detail was lost in this area and required rivets to be restored using a riveting tool. Step D calls for the removal of a small vent on the forward left side of the cowling near the wing root; this was left on as it represents a vent associated with the relocation of the battery on the P-51D-20 and later as mentioned earlier.

Now that the fuselage halves were together, work on the wing continued. After a considerable amount of filling, sanding, and checking, the upper wing halves were joined to the one-piece lower wing. Just prior to doing so the clear insert for the aircraft position lights in the lower wing were painted with respective red, green, and amber clear colours from AMMO by Mig. The gun inserts and ailerons were added next and fit quite well; I did, however, later find a slight step where the upper wings met with the gun inserts that required some filling and sanding. With the wings complete, it was time for the critical step in any aircraft build; the fit of the wing to the fuselage. Thankfully the join

was stress free and the fit between the fuselage and the wing root was excellent requiring only a smear of Mr. Surfacer 500 along the panel line at the joint. To ensure a good join Tamiya tape was stretched from wingtip to wingtip across the top of the fuselage and allowed to cure overnight.

## CONTROL SURFACES

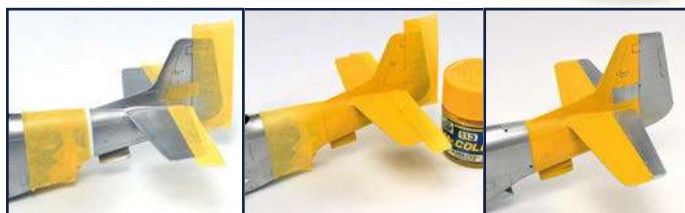
The horizontal stabilizer, rudder, and elevators, and fin fillet were added next. Eduard provides both fabric-covered elevators for early production aircraft as well as metal ones for later production blocks. I chose the metal ones as well as the later version of the fin fillet (two are in the box). The fin fillet required some sanding and scraping to get an acceptable fit and honestly this was the only part during the entire construction sequence that needed any help. The horizontal stabilizer and rudder fitted positively into slots in their respective joining surfaces ensuring proper alignment. Again, just a thin bead of Tamiya Extra Thin Liquid Cement was required at the joints due to the excellent fit.

You may have noticed there was no mention of the instrument panel during the construction of the cockpit; Eduard have cleverly engineered the instrument panel, coaming, gunsight, and rudder pedals as a subassembly that slides vertically into the cockpit. This step comes well after the cockpit construction steps and my guess is that with the fuselage halves already joined there's less of a chance of creating a fit issue by installing it after they're together. The choice of a pre-painted PE instrument panel or the more traditional moulded panel with decal is provided along with an early or late instrument panel coaming. I opted for the PE panel and the late coaming and almost felt like I was cheating! Once completed, the module slid easily into place and finished the cockpit nicely.

Construction moved along to the addition of some of the smaller details such as the carburettor intake covers, radiator inlet, landing light, tailwheel assembly, main



Once the painted wings were dry, they were masked off (minus ailerons) with Tamiya masking tape and the remainder of the model then airbrushed with Tamiya AS-12 Bare Metal Silver, decanted and thinned with Mr. Levelling Thinner



The rear of the fuselage was masked off and the fin and horizontal stabilisers were airbrushed with an undercoat of Tamiya X-1 White (Gloss) followed by Mr Color C113 RLM04 Yellow



The pilot's anti-glare panel was masked off and airbrushed with Mr Color C304 Olive Drab. This shade was then lightened and highlights applied over the darker base coat



The weathering process started with the application of a panel-line colour-wash using AMMO by Mig Panel Line Wash Blue/Black, allowed to dry for about thirty minutes before removing the excess with paper towels and Q-Tips



❶ landing gear, and flaps. I assembled the landing gear and tailwheel assembly and airbrushed them as well as the gear doors with Tamiya spray lacquer AS-12 Bare Metal Silver decanted and thinned with Mr. Levelling Thinner. These were set aside until final assembly to avoid any potential damage during overall painting of the model. I deviated from the kit-supplied wheels and opted for a set of excellent resin oval tread tires and wheels in resin from BarracudaCast. These required the hubs to be drilled out to fit the Eduard landing gear and feature superior detail in the wheel spokes and tread. The flaps were also assembled and mounted; the fit is very precise and requires some patience and care to get them aligned properly before cementing them in place. Tamiya Extra Thin Liquid Cement was used sparingly to avoid ruining any of the excellent detail.

## EXHAUST ISSUES

Final construction addresses the exhausts, propeller, windscreen and canopy. The option of exhausts with or without the fairing is included; unfortunately, in my kit the exhaust tubes themselves suffered from a 'short-shot' moulding rendering them unusable. This was apparently a problem for most examples of the kit released and Eduard addressed the issue through their customer service department as well in subsequent releases of the kit. I replaced mine with resin examples from the Eduard Brassin line and painted the fairings with Mr Color Super Fine Silver 2 and the exhausts stacks themselves with a brown-orange mix of Vallejo acrylic paint. These would be added after final painting was complete.

The propeller was assembled, painted, and set aside from the three-piece spinner until final assembly. The windscreen was installed next and the fit was quite good thanks to the integration of a portion of the fuselage into the part. The fit of the canopy was checked next and as typical of most P-51 kits, the rearmost tip of the

canopy did not rest on the fuselage as it does on the real aeroplane. To remedy this, the inside edge of the canopy was carefully bevelled using a sharp blade, checking often to make sure too much material hadn't been removed. Satisfied with the fit, the supplied pre-cut masks were applied as well to the windscreen in preparation for painting.

To finish up, the holes for the dual AN/ARA-8 antennae on the upper rear fuselage were drilled with the aid of a micro drill in a pin vice. The blade antenna for the SCR-522 radio normally placed on the upper rear fuselage was relocated to the bottom of the fuselage just forward of the main gear well. Eduard actually has a locator hole drilled here making the placement even easier.

## PAINTING

With basic assembly complete it was time for my favourite part of every build; painting! The wings and rudder were airbrushed with a mix of Tamiya AS-12 Bare Metal Silver and Mr Color C332 Light Aircraft Grey. This mix represents the aluminium lacquer sprayed on the wings and the fabric-covered rudder at the factory during the manufacturing process and creates just the right amount of contrast from natural metal finish of the aircraft. Once dry, the wings (minus the ailerons) were masked off with Tamiya tape and the remainder of the model was airbrushed with Tamiya AS-12 thinned with Mr. Levelling Thinner.

Several panels were then masked off and airbrushed with Mr Color Super Fine Silver to create some contrast. The panels near the exhausts were masked and airbrushed with Mr. Paint MRP-82 Titanium. Once dry, the rear of the fuselage was masked off and the vertical fin and horizontal stabilisers were airbrushed with a primer coat of Tamiya X-1 Gloss White followed Mr Color C113 RLM 04 Yellow. The anti-glare panel was masked off next and airbrushed with Mr Color C304 Olive Drab. This colour was then lightened and some highlights were

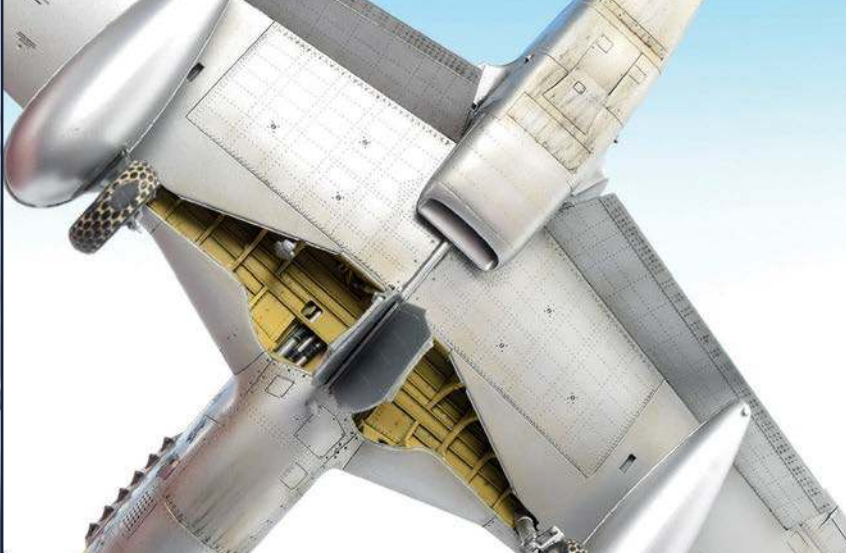


When this model was built, Eduard were yet to release 110-gallon drop tanks often seen on VLR Mustangs. The author found some from an old Monogram P-80 kit tanks in the spares box and up-detailed them with styrene, fine solder wire and mounting lugs carefully removed from the kit's seventy-five gallon tanks



AMMO by Mig's Oilbrusher 'Starship Filth' was applied around the wing roots and wing access panels and allowed to set for about an hour. The oil paint was then blended and streaked using Q-Tips, a brush dampened with white spirit and a fingertip





applied over the darker shade. After allowing everything to dry for a couple of days, the entire model was airbrushed with several light coats of Mr Color GX-100 Super Clear thinned with Mr. Levelling Thinner in preparation for decals. I chose markings from Hussar Productions to represent a P-51D-20 from the 506th Fighter Group, 462nd Fighter Squadron, based on Iwo Jima in July of 1945. The decals, printed by Cartograf, performed flawlessly with the help of some Micro Set and Micro Sol. The kit supplied decals were used for the various stencils and performed equally well. Once the

decalling was complete, the model was again given several light coats of GX-100 Super Clear to protect the decals from subsequent weathering steps.

### WEATHERING

Once the model was allowed to dry overnight, the weathering process began in earnest with the application of a panel line wash using AMMO by Mig Panel Line Wash Blue/Black. I worked in sections allowing the product to dry for about thirty minutes before removing the excess with a paper towel and cotton buds. A few areas were also given streaks of the wash which were

then blended with a brush dampened with white spirit. Once the enamel-based wash had dried, I airbrushed a very thin mix of Mr Paint MRP-180 Exhaust Soot with an Iwata Custom Micron-C airbrush over selected panel lines.

Exhaust staining was also replicated using this mix applied in very thin layers, being careful not to overdo it. AMMO by Mig Oilbrusher Starship Filth oil paint was then applied randomly around the wing roots, wing access panels and underside near the oil cooler and allowed to set for about an hour. The oil paint was then blended and streaked using a combination of cotton

buds, a brush dampened with mineral spirits and my fingertip. Period photos of aircraft operating from Iwo Jima show them to be fairly dirty due to the local conditions and the model was weathered to match these photos as closely as possible.

The tyres were brushed with AK Interactive Light Dust Deposits and allowed to dry. The excess was then wiped off leaving just the right amount of dirt in the nooks and crannies of the tyre treads. Again, referencing period photos, a Prismacolor silver coloured pencil was used to apply chipping on the primarily the back sides of the





## FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

EDUARD 1:48 P-51D-5 'CHATTANOOGA CHOO-CHOO' ● KIT NO.11134



❶ propeller blades. To replicate the tape and sealant often used to seal the gun barrels after servicing them, small pieces of plumber's Teflon tape were applied over the barrels and painted with several shades of dark green.

To wrap things up, the blade antenna, landing gear and doors, canopy, spinner/propeller assembly, and exhausts were added to the model. The dual AN/ARA-8 antennae (yes, they were made of wood!) were painted using several shades of brown and tan Vallejo acrylics to

simulate the wood grain. At the time I built the model, Eduard had not yet released 110-gallon drop tanks often seen on VLR Mustangs. I scavenged through the spare parts box and found some from an old Monogram P-80 kit and detailed them with styrene, fine solder wire and mounting lugs carefully removed from the kit supplied seventy-five gallon tanks.

The AN/APS-13 Tail Warning Radar was also scratched from styrene and fine brass wire formed

around a needle. It was added to the model and brush painted as one of the final steps to avoid damage while handling. And with that, the model was complete. Eduard have produced an excellent kit of the P-51D Mustang featuring excellent details and great fit throughout the construction process. With more releases planned there's something for everyone in terms of markings and production series and I can't wait to build another one! ●

### TECHSPEC...

EDUARD 1:48 P-51D-5 'CHATTANOOGA CHOO-CHOO' KIT NO.11134

#### Materials;

Injection-moulded polystyrene, photo-etched metal, waterslide decals

#### Paints used:

- Tamiya Spray: AS-12 Bare Metal Silver
- Mr. Paint: MRP-180 Exhaust Soot, MRP-82 Titanium
- Mr Hobby: C304 Olive Drab, C332 Light Aircraft Grey, C113 RLM 04 Yellow, Super Fine Silver 2, Mr. Color Leveling Thinner
- AMMO by Mig: Blue-Black Panel Line Wash A.PLW-1617, A. Mig 3513 Oilbrusher Starship Filth
- Vallejo Acrylics (various colours)

#### Accessories used:

- Eduard Brassin: P-51D Exhaust Stacks w/ fairing (648486)
- Hussar Productions P-51D 'Mustangs Over the Pacific' Pt. 2 (D48007)
- BarracudaCals P-51D Mustang cockpit stencils and placards (BC48361)
- BarracudaCast P-51 oval tread pattern wheels and tyres (BR48050)

#### Availability;

- Eduard models and accessories are widely available from good model shops and online. [www.creativemodels.co.uk](http://www.creativemodels.co.uk) [www.eduard.com](http://www.eduard.com)
- BarracudaCals: [www.barracudacals.com](http://www.barracudacals.com)
- Hussar Productions:







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**BISMARCK**  
Kriegsmarine 1941

Made in Italy by Amati



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Height 29,2 cm.  
Width 18,2 cm.

**Item 1614**

*Plank on frame*

*Wooden decks*

*2266 photoetched parts included*

*16 plywood laser sheets*

*Building instructions in*

*2 colour volumes*







# **ACHTUNG JABOSCHRECK** **(THE STORY OF A BOASTFUL BEAR)**

**Vladimir Yashin** converts Tamiya's 1:35 Steyr Type 1500A/01 converted to a 'Jaboschreck' Jagdbomber defender

**T**he second half of WWII became a true nightmare for all land units of the Wehrmacht, due to Allied air-superiority; the Luftwaffe could not cope at all. There was even a German soldier's joke saying;

*"Silver planes in the sky?  
That's the USAAF. Camouflaged  
planes in the sky? That's the  
Royal Air Force. No planes in  
the sky? That's the Luftwaffe!"*

Any daytime movements of German troops could turn into a localised hell, which was delivered by Typhoons, Tempests and in the east, Il-2 Sturmoviks which received the abbreviation 'Jabo' for





'Jagdbomber'. They wrecked German armoured columns mercilessly and methodically. Any single truck, tank or even horse-drawn cart would be attacked. Tank commanders were forced play hide-and-seek with Allied

pilots during the daytime and embark any movement only under the cover of darkness. It reached the point that in each vehicle, if possible, there was one person who constantly surveyed the sky, rotating his head 360 degrees.

This action even received its name 'Deutsche Blick' or the German view. After all, for someone the sky was blue and sunny, and for someone it was murderous.

The scale of the disaster forced



## FULL-BUILD: WORLD WAR TWO AXIS COMBAT VEHICLE

TAMIYA 1:35 GERMAN STEYR TYPE 1500A/01 S.GL.PKW STEYR TYP 1500A/01 ● KIT NO.35225

❶ the Wehrmacht not only to constantly increase the production of anti-aircraft tanks, armoured personnel carriers and half-tracks, but also place 20mm anti-aircraft guns on trucks. The problem was, the 20mm Flak 38 wasn't powerful enough to counter enemy aircraft and the four-barrel Flakvierling or 37mm Flak 43 were too heavy and cumbersome for standard trucks. But, in 1944 the 30mm Flak 103/38 anti-aircraft gun appeared.

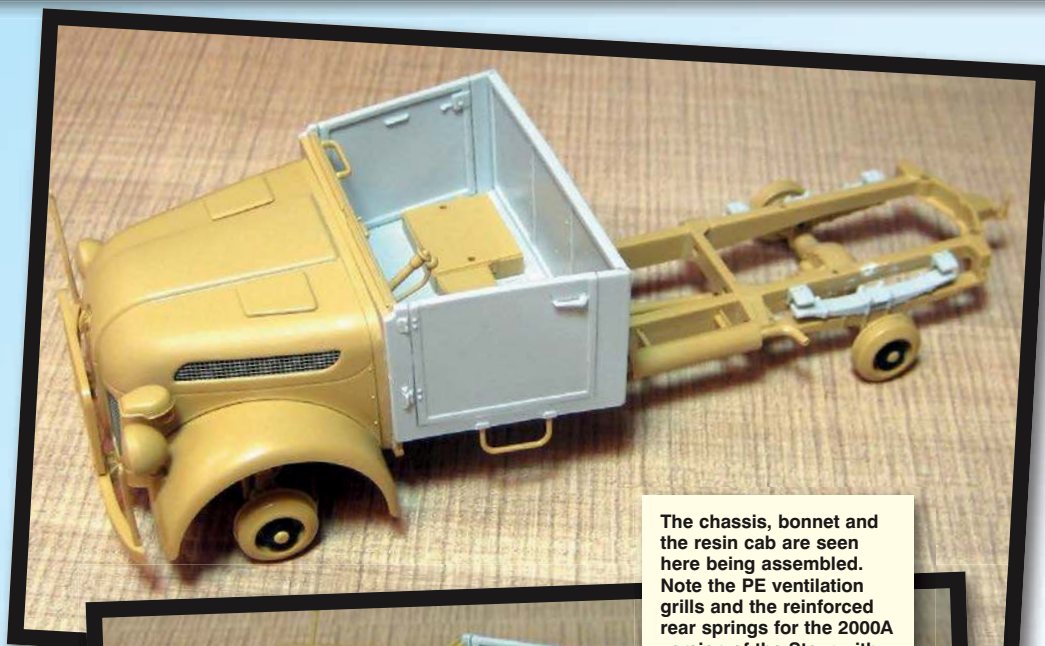
It was a kind of cheap and effective super-weapon, which could be installed on the carriage of the obsolete 20mm Flak 38 with minimal alterations and had almost the same weight. However it was much more effective against Allied aviation and acquired the name 'Jaboschreck', the killer of attack aircraft (not to be confused with the cartoon character, Schrek!). The most famous and notable vehicle to receive the Jaboschreck gun was the Pz.IV-based 'Kugelblitz' anti-aircraft tank, of which a handful were made at the very end of the war. As for me, I decided to build much less well known vehicle armed with Jaboschreck. We can't even be sure if such vehicle ever existed.

### PROTOTYPE

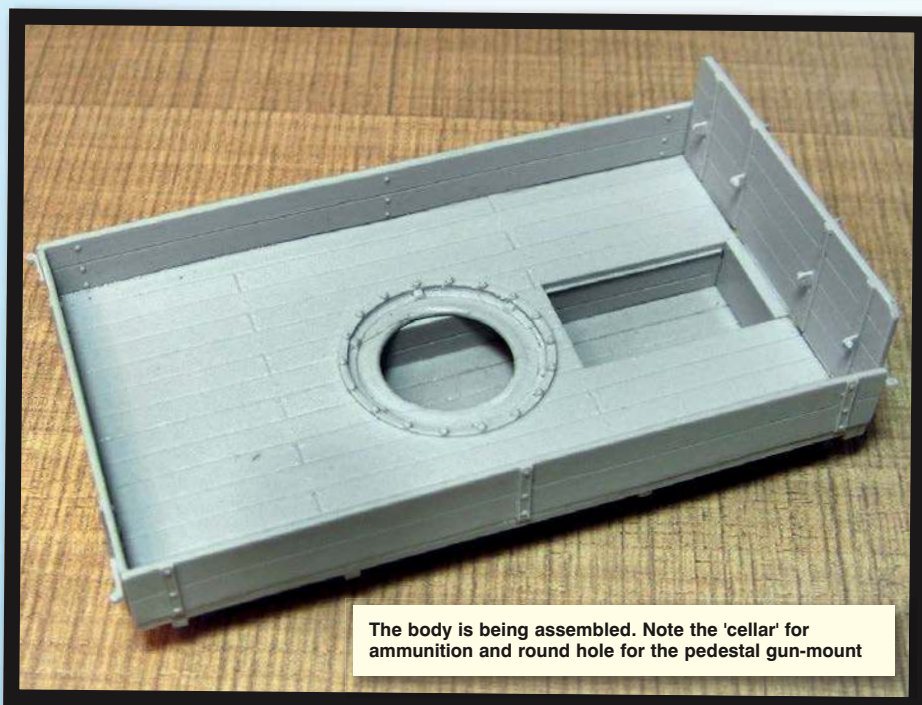
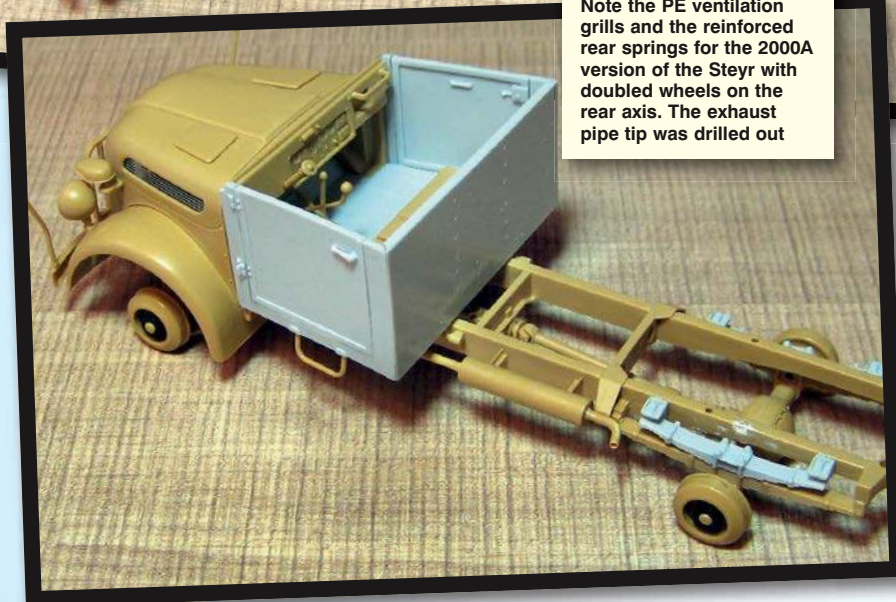
At the end of 1944, the 'Gaubschat Fahrzeugwerke' company in Berlin received an order to adapt the Steyr 2000A truck to take the 3cm Flak 103/38. The project was approved and launched into series. The Jaboschreck guns were installed on ready-made truck chassis at the 'Ostbau Werke' plant in Żagań, Poland. The number of Steyr 2000 A mit 3cm Flak 103/38 varies produced was around fifty to seventy units. These gun-trucks were delivered to the 17th Panzerdivision and 'Gotz von Berlichingen' division. As far as is known, several vehicles were used in Czechoslovakia, including the one with the registration number WH-1772950, which belonged to Pz.Gr. Rgt.40 of the 17 PzDiv and appears in a wartime photo.

And now for the most interesting part! There are some memories of a man who worked in a factory converting trucks to anti-aircraft versions at the end of the war and according to his recollections, some were manufactured in a simplified version with a low-sided body. This version had its gun mounted on a pedestal attached directly to the floor of the body. Another interesting fact; this vehicle had a kind of cellar for ammunition storage in the floor.

Sounds great! But who could imagine such model or conversion set was on sale? Incredibly, the 'Leadwarrior' company from Russia issued such resin conversion a few years back and it's still available. It allows the modeller to convert Tamiya's excellent 1:35 Steyr



The chassis, bonnet and the resin cab are seen here being assembled. Note the PE ventilation grills and the reinforced rear springs for the 2000A version of the Steyr with doubled wheels on the rear axis. The exhaust pipe tip was drilled out



The body is being assembled. Note the 'cellar' for ammunition and round hole for the pedestal gun-mount

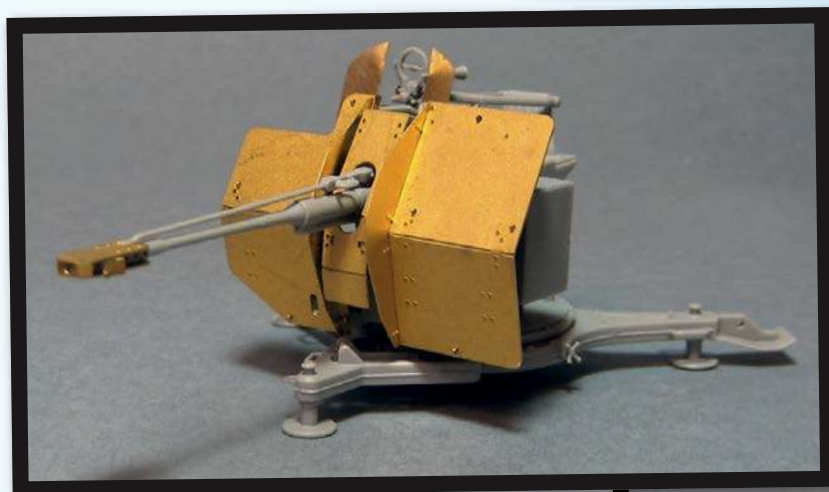




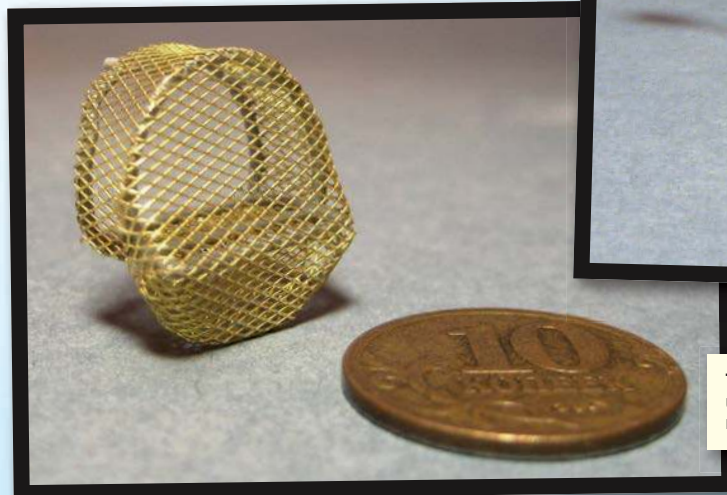
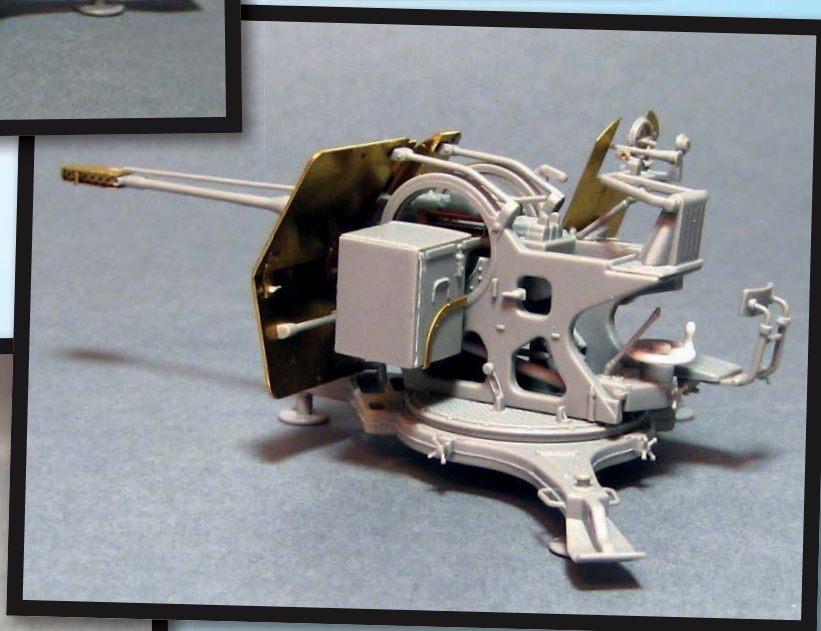
Rear double wheels, one from the kit, another from resin set. Note the surface contact patch made with help of sandpaper, which simulates the weight of the vehicle. The author added some bolts and an air valve for maximum accuracy



The spare wheel also received some bolts and valve. Note the two resin nuts (from Masterclub) that fix the wheel to the bumper guard



The Jaboschreck anti-aircraft gun during assembly. The gun carriage of the 20mm Flak 38 is clearly visible, with some improvements as the 30mm gun barrel, large ammunition box and new type of hand-wheels

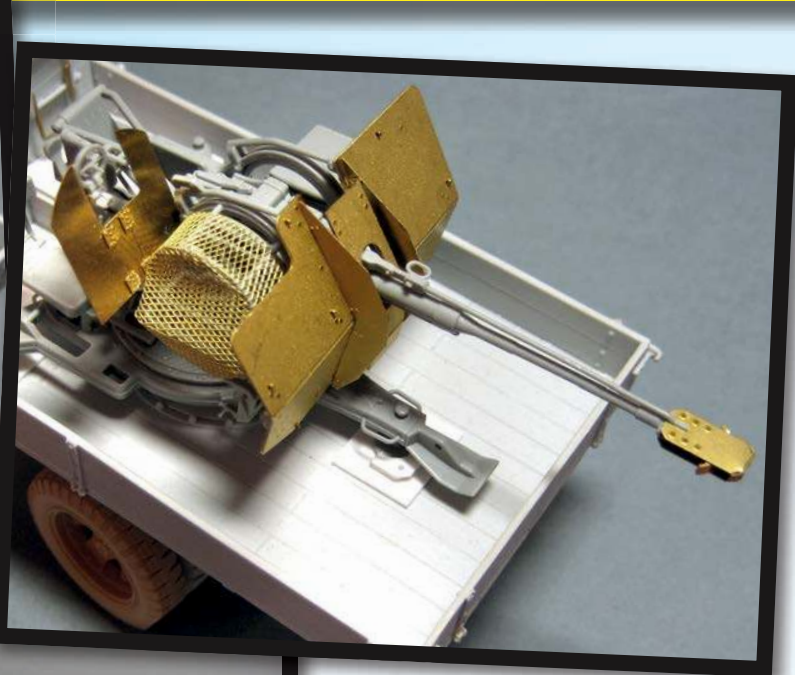
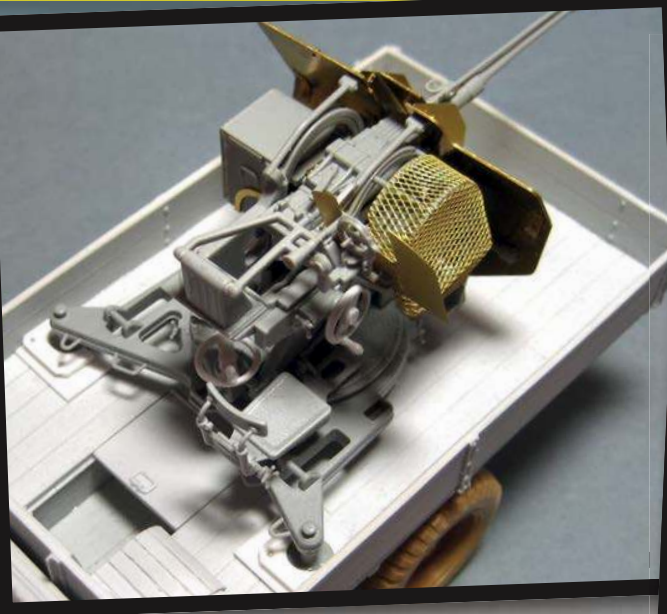


The cartridge-catcher frame was upgraded with Aber's photo-etched mesh making it very fine and accurate-looking



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The Jaboschreck gun has been mounted in the body of the truck (but not yet fixed). The three-point clamps on the floor were made from 1mm plastic card and are clearly visible. The box-shaped construction on the muzzle brake helps to reduce the vibrations during gunfire

◀ 1500A into this unusual gun-truck based, on personal memories and having no proof of its existence! I couldn't ignore such a unique subject, so on the basis of a 'what if' model, I jumped into this project. Question: how many enemy aircraft do you think were shot down by this 'prototype' Steyr? The answer will follow at the end of the article!

### ASSEMBLY

So, this model is a three-way kit-bash of Tamiya's Steyr, Leadwarrior's conversion set and Dragon's Jaboschreck. I must say that combining of these ingredients into a single dish went great and left the most pleasant of impressions. Anyway, building Tamiya's kits is always a pleasure. As for Leadwarrior, for me this is one of the best resin manufacturers on the market. Dragon's Jaboschreck also did not cause any problems and perfectly joined the company of high-quality ingredients. One small update was demanded by Dragon's Flak; its photo-etched brass cartridge-catcher looked more like a colander than a net. So I took Aber's etched mesh and cut

the segments myself, then wrapped them around the frame. This procedure made the model much more accurate and lifelike.

The rest of assembly was executed out of the box with minimal modification, more precisely out of three boxes. I also left room for improvisation and departed a little from the concept offered by Leadwarrior. I established an anti-aircraft gun not on a pedestal but on its standard carriage. It received three-point clamps on the body floor which were typical for the 20mm anti-aircraft guns fitted to the cargo decks of Opel Blitz trucks. This is a weapon of despair of the last weeks of war and such construction looks easier, cheaper and more logical in terms of mass production.

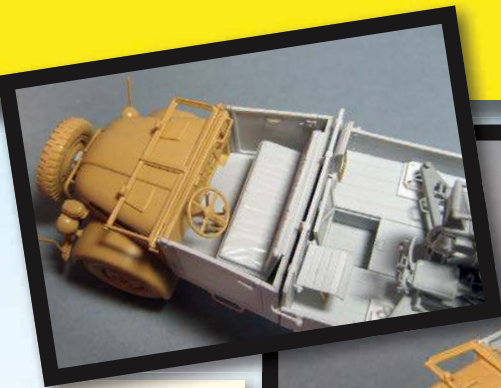
### PAINTING

For a some while I couldn't decide which paint scheme to choose. I didn't have an image of the prototype in its camouflage so I could fully enjoy the freedom of choice. But I didn't, due to lack of inspiration. I made

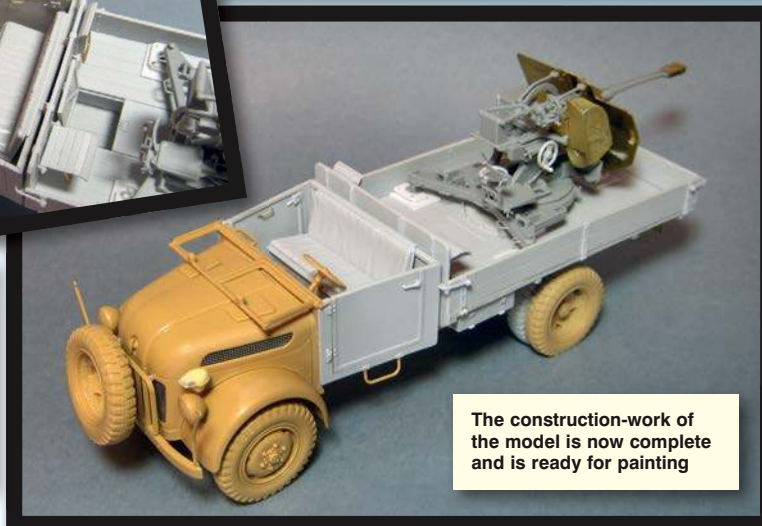
numerous paint trials and sketches but the schemes didn't look interesting. Finally I decided to apply a dynamic three-colour striped camo. Moreover, I wanted to fool around a bit... On one door I painted a 'Yin-Yang' symbol, so that all modellers lived in harmony with their models and each other and on the other door a bent arm with a 'bicep' as a sign that 'we can do it'. The sides of the body were painted with 'waves' to make it easier to float in the ocean of modelling; for this scheme I used AK Interactive Real Color acrylics and was quite satisfied with their quality. I'm a big fan of Tamiya acrylics and this new line from AK is the closest analogue of the well-established Japanese paint.

The weathering was performed in the classic way: filters, oil paints, colour-washes, paint-chipping and pigments. Each body panel was highlighted with Wilder oils of light-yellow and buff tones. The joints were shaded using dark-brown Wilder oils. I paid maximum attention to the cab of the truck because it is open-topped and one can see the seats,





The cabin, with its simplified wide seat looks interesting. The Notek light was ultimately replaced by a resin item from Mig Productions



The construction-work of the model is now complete and is ready for painting



The author had a choice of three spray primers from the stash: Tamiya Fine Surface Primer (Oxide Red), Tamiya Fine Surface Primer (Light Grey) and Mr Hobby Mr Finishing Surfacers 1500 (Black)



The Light Grey was chosen, with the wheels sprayed in the black primer from Mr Hobby



The author used AK Real colour acrylics for three-tone, striped camouflage which are very close Tamiya's acrylics. Note the flourishes in the camo pattern. The guy who originally applied this camouflage with his spray gun was definitely an Impressionist!

dashboard and other interior details with ease. The dial decals by Archer Fine Transfers made the dashboard look extremely accurate. The most attentive spectator can even read the numbers on the speedometer! One word; magic!

## STUFF

Now, perhaps the most interesting items; stowage, swag, utensils and other accessories! I spent a lot of time thinking about how and what I could do to liven up the landscape of this truck and ended up dividing the Steyr into two separate areas in my thoughts. The biggest area is the body with the ammunition 'cellar'. I filled it with potatoes, not with ammo. Why? Because a bag of potatoes is much more valuable than clips of ammunition which aren't intended to be used. According to the theme of the model, the war is nearly over and the crew is rushing – not to fight – but to reach the Allied occupation zone to surrender to the Americans, British or Canadians. ▶





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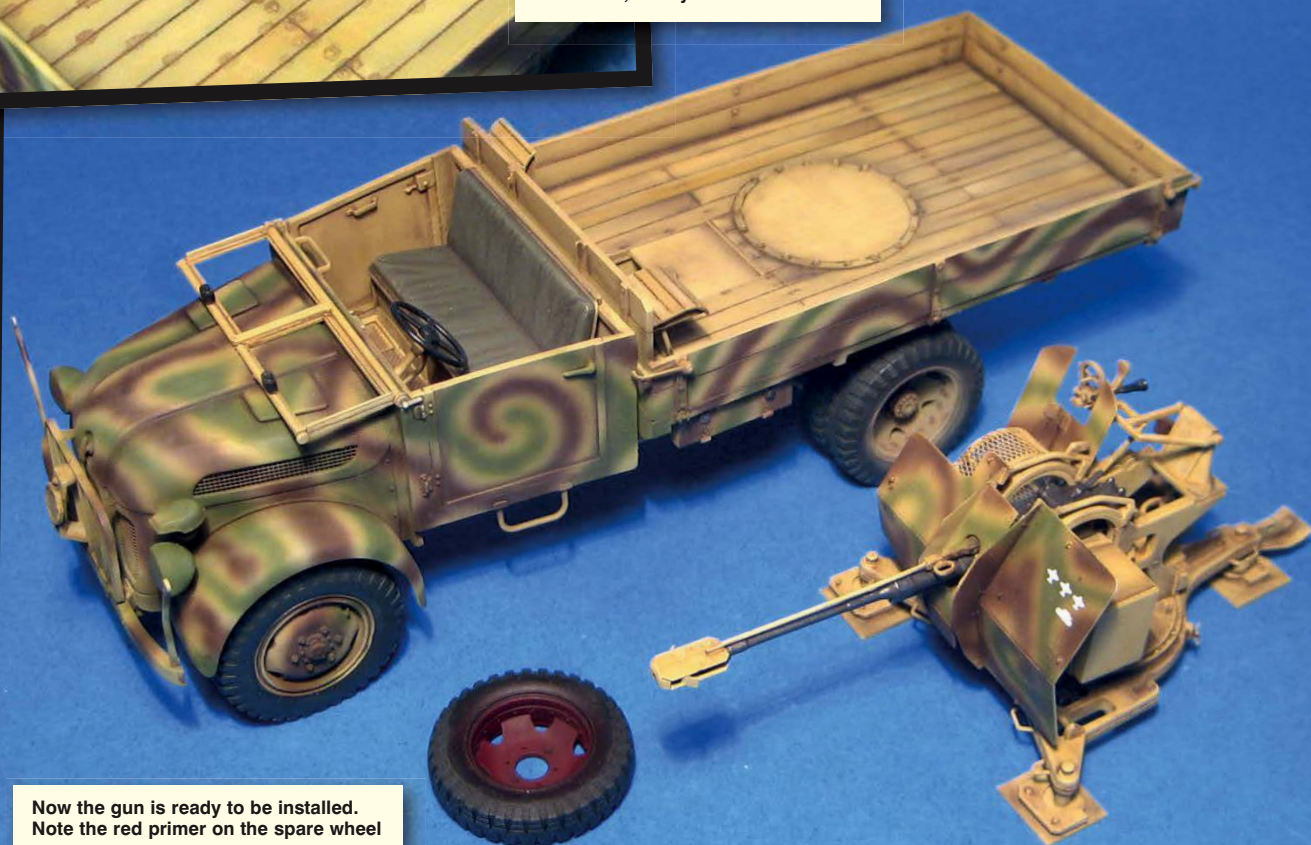
The dashboard looks highly realistic thanks to Archer Fine Transfers decals. They can make you believe that the speedometer pointer can even rotate!



The next step is the fading of the colours using oil-paint spots. The author used buff, yellow and brown shades from the excellent 502 Abt range



A brown colour-wash (P221) from Mig Productions was applied to the monotone, dark-yellow surfaces



Now the gun is ready to be installed. Note the red primer on the spare wheel





Close-up view of the weathered dashboard. Not bad!

❶ A couple of wine bottles will be uncorked to celebrate the successful surrender, the only kind of 'victory' which German soldiers could anticipate in May 1945. I also put the canister, oil can, bucket, civilian blue box and a pair of shoes removed from the feet of someone of the crew members, as well as a suitcase with personal belongings and even a travel sticker. On the right side I added a special bracket for jerrycans. The latter have different shades of dark yellow and panzer grey and filled with fuel, which was like gold at that time and would serve to reach the Allied occupation zone quicker.

Let's now move to the cabin. Here one can see a colourful tablecloth and the bottle of wine, both found stashed in some wealthy Czech house (by the way, potatoes and the blue toolbox also came from there). What do we see on the dashboard? It's a picture of the driver's girlfriend. But maybe he is a cheater and the girl in the photo doesn't know about their romantic relationship? Who knows... Well and finally I want to tell about the teddy-bear! It was found on the side of the road and had previously been lost by refugees. He was mounted to the spare wheel, making a kind of mascot. ▶



And some paint-chipping, of course! The author used special chipping colour from ARM. PNT, applying it with pieces of sponge plus a fine model brush (040), followed by some dry dirt and dust. All you need for this procedure is just pigments!

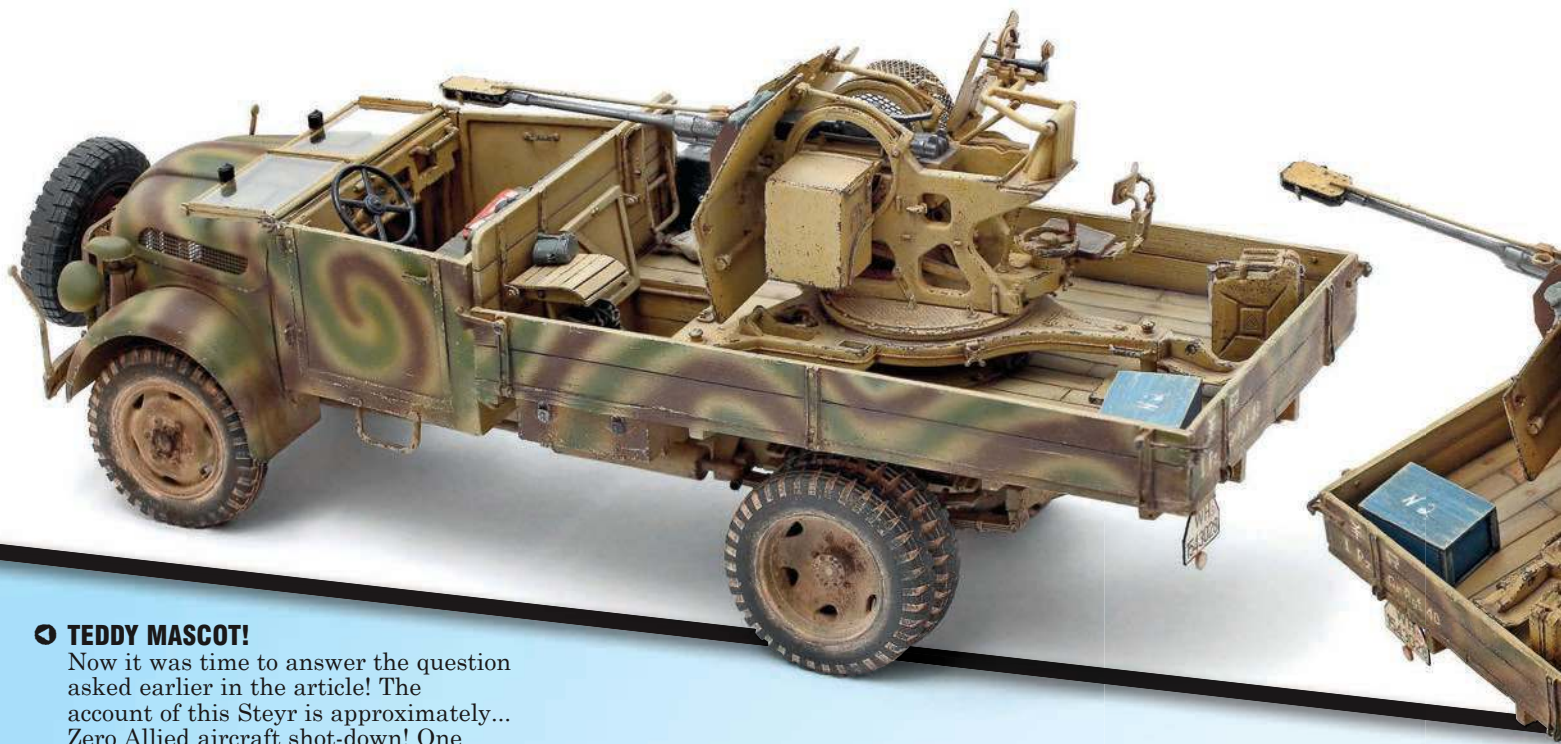


Here we see the kit's wheels and tyres, painted and thoroughly dusted-up. Note the oil leak



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## ● TEDDY MASCOT!

Now it was time to answer the question asked earlier in the article! The account of this Steyr is approximately... Zero Allied aircraft shot-down! One can ask where did so many victory marks on the gun shield come from? It's simple! The youngsters in the crew were very lucky; during their short service they were never subjected to air attack and did not get into any trouble. But the youthful craving for adventure and the desire to show off allowed themselves to paint the silhouettes of the 'downed' aircraft and even destroyed tank in advance. That is why the teddy bear and the Steyr itself were nicknamed 'Boastful Bear'. ●

## TECHSPEC...

TAMIYA 1:35 GERMAN STEYR TYPE 1500A/01 S.GL.PKW  
STEYR TYP 1500A/01 KIT NO.35225

### Materials;

Injection-moulded polystyrene, polycaps, photo-etched metal, synthetic rubber tyres, waterslide decals

### Paints used:

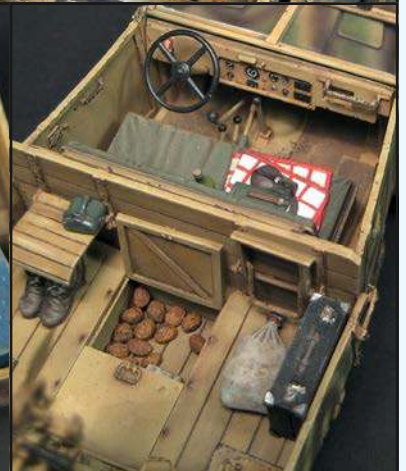
- AK Interactive Real Color (acrylics)

### Accessories used:

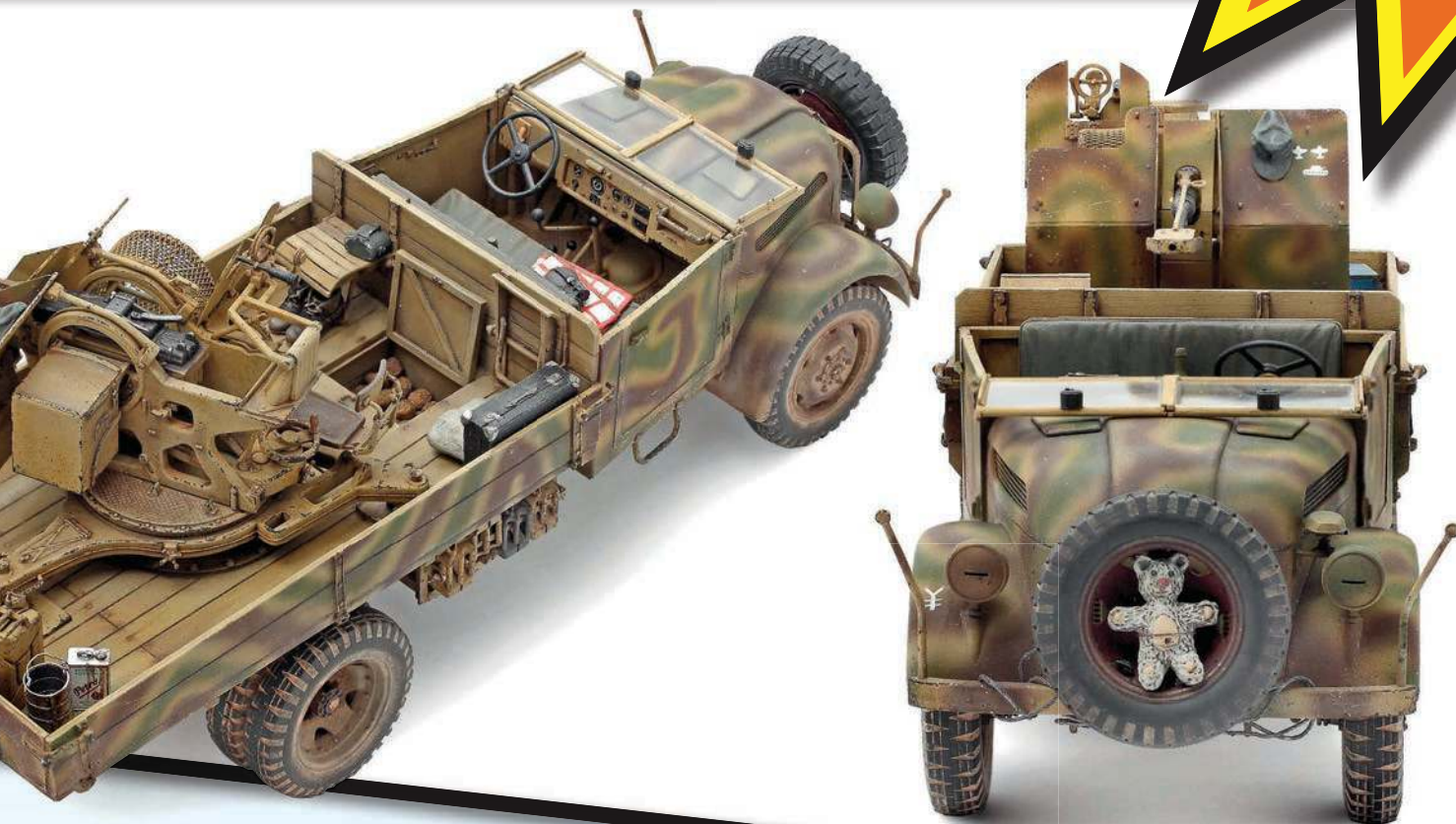
- Leadwarrior: Steyr Type 2000A mit Flak.38/103 'Jaboschreck' (LW35030)
- Dragon: 3cm Flak 38/103 Jaboschreck w/trailer (6353)
- Tamiya: photo-etched grills (Steyr), jerry cans,
- Verlinden Productions: license plates
- Plus Model: bucket, oil can, toolbox
- Eureka XXL: towing cable
- Mig Productions: resin Netek
- Aber: photo-etched mesh
- Archer Fine Transfers: dashboard decals

### Availability;

- Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)
- Dragon: UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)
- Leadwarrior: [www.leadwarrior.com](http://www.leadwarrior.com)
- Verlinden Productions: search online
- Eureka XXL: [www.eurekaxxl.com](http://www.eurekaxxl.com)
- Mig Productions: [www.migproductions.com](http://www.migproductions.com)
- Aber: [www.aber.net.pl](http://www.aber.net.pl)
- Archer Fine Transfers: [www.archertransfers.com](http://www.archertransfers.com)







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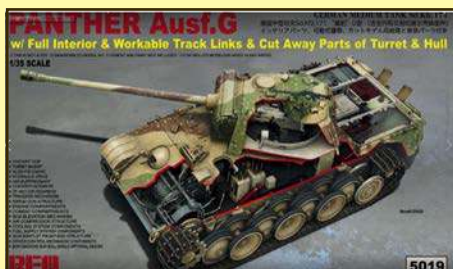
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## EDUARD, CZECH REPUBLIC

www.eduard.com

www.creativemodels.co.uk

We looked at the digital illustrations of Eduard's 1:48 P-51D Mustang accessories last issue and now we have received the actual sets, we can attest to their fantastic quality. The kit gets two new resin propellers and cockpits, bronze U/C legs, wheels and gun bays plus a host of various wheel/tyre combinations and when used in conjunction with this kit, they will look phenomenal. As always from this manufacturer, the resin is flawlessly cast and the photo-etched brass of the highest quality.

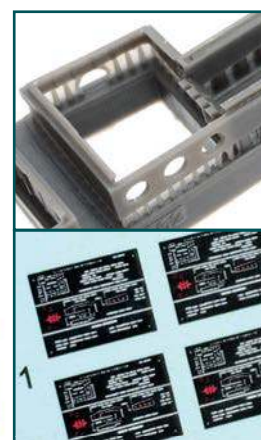
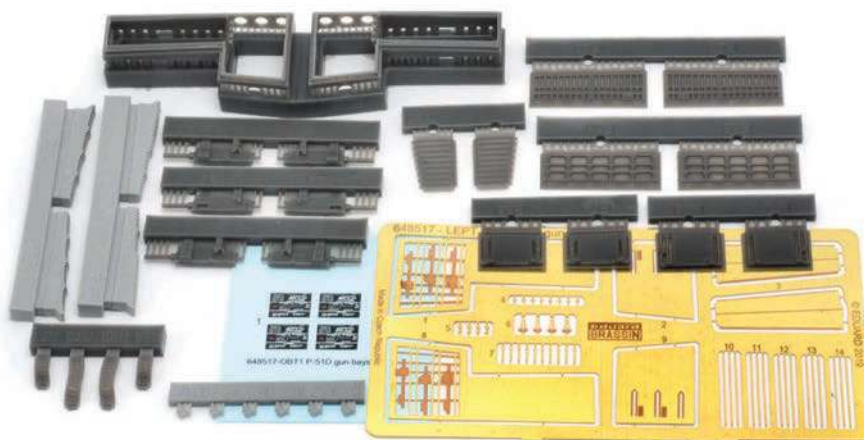
### EDUARD BRASS 1:48

- P-51D-5 exhaust stacks (648485) for Eduard
- P-51D Mustang gun bays (648517) for Eduard
- P-51D Mustang Hamilton Standard (cuffed) propeller (648487) for Eduard
- P-51D Mustang Hamilton Standard uncuffed propeller (648488) for Eduard
- P-51D-5 Mustang undercarriage legs BRONZE (648495) for Eduard
- P-51D Mustang cockpit (648522) for Eduard
- P-51D wheels oval tread (648503) for Eduard
- P-51D wheels cross tread (648504) for Eduard
- P-51D wheels block tread (648505) for Eduard
- P-51D wheels rhomboid tread (648512) for Eduard
- P-51D wheels pointed cross tread (648513) for Eduard
- P-51D wheels grooved tread (648514) for Eduard
- P-47D wheels (6488484) for Tamiya

### EDUARD LÖÖK 1:48

- P-51D-15+ (instrument panel and harnesses) (644031) for Eduard

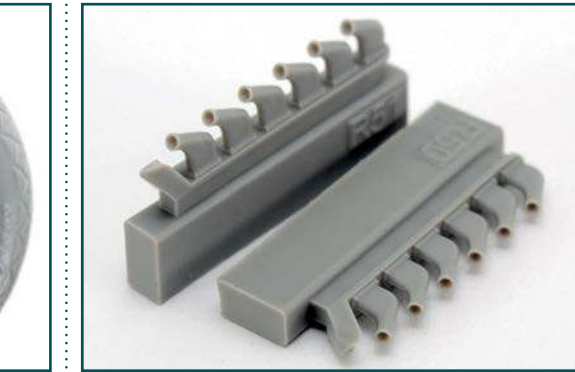
Below and right: P-47D wheels (6488484) for Tamiya





# Accessories

PLASTIC SECTION, F; FABRIC, IM; INJECTION MOULDED (PLASTIC), ITL; INDIVIDUAL TRACK LINKS, LCC; LASER CUT CARD, LLT; LINK AND  
RORS, PCM; PRE-CUT MASKS, PMP; PRE-ASSEMBLED METAL PARTS), PS; PAPER STRIP, R; RESIN, SVT; SOFT VINYL TYRES (OR TUBING),



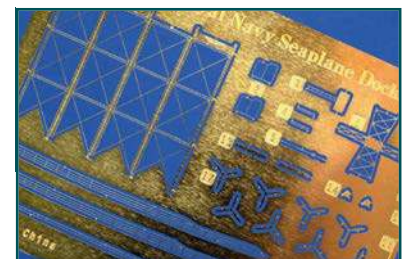
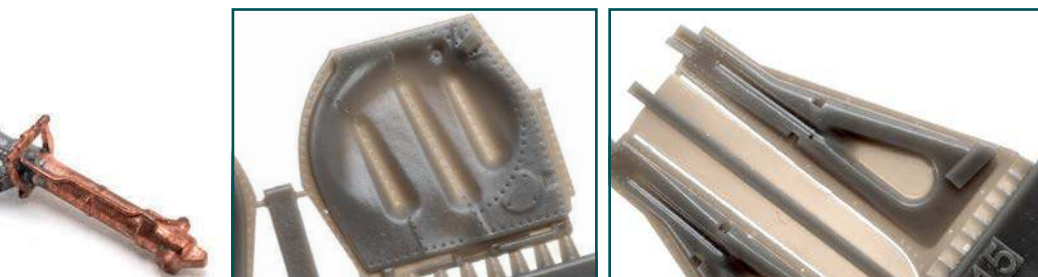
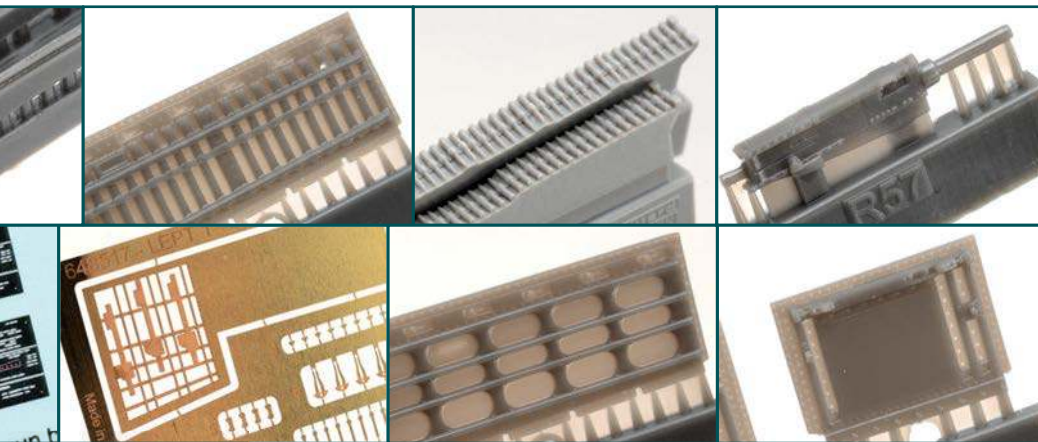
## FLYHAWK MODEL, CHINA

[www.flyhawkmodel.com](http://www.flyhawkmodel.com)

1:700 might not be the first scale that comes to mind when contemplating a diorama, but this wonderful set from Flyhawk Model might change your mind. It provides all you need (minus the actual baseboard) to create a tiny but atmospheric dockside scene, with a pair of clear-moulded Short Sunderlands as the focal point. An injection-moulded polystyrene quayside with moulded-in ramp forms the backdrop, with a hanger building, water tower and refuelling vehicles to place in the foreground. The Sunderlands are beautiful kits in their own right and come with photo-etched propellers. A superb set, bursting with character.

**1:700**

- Royal Navy Seaplane Dockside Base





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**WC**; WOVEN CORD, **WD**; WATERSLIDE (DECALS), **WS**; WOODEN STRIP

## KAZAN MODEL DYNAMICS, CANADA

[www.kazanmodeldynamics.com](http://www.kazanmodeldynamics.com)

This manufacturer is new to TMMI and from the three accessory sets we were sent, our first impressions are very positive. The product that immediately caught our eye is a complete replacement undercarriage for Tamiya's 1:48 F-14A/D (and hopefully, B) Tomcat. All parts are cast in light grey resin and wheels/tyres are included. If you, like us, are a little wary of resin undercarriage legs, do not worry; these have metal rods cast inside them for maximum rigidity so they will not bend or collapse over time. The legs have their brake-lines cast into them and they are very realistically done (see images below). The peripheral struts are extremely fine and will add a wonderful touch of refinement to the kit. Also new from this company are two sets of undercarriage for Eduard's new 1:48 P-51D Mustang and we will take a look at them here, next issue.

**1:48**

- Landing Gear for the F-14A/B/D (KLG4802TAM) for Tamiya



## BULLSEYE MODEL AVIATION, USA

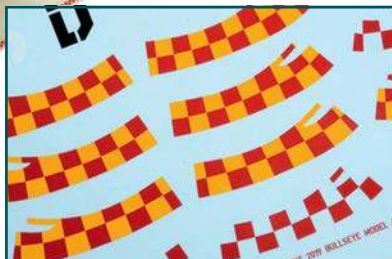
[www.store.spruebrothers.com](http://www.store.spruebrothers.com)

Bullseye Model Aviation from the USA have created no less than four packs of decals for 1:48 P-51D Mustangs of the 357th Fighter Group based in eastern England towards end of the Second World War in Europe. Each set provides markings to build one of seven Mustangs, with the characteristic yellow and red checkered noses/spinners provided in decal-form for each machine. There was some variety in the use of dark green and grey on the airframes and much debate has been had over which specific paints were used, which gives the modeller some latitude when painting their model. The markings are fantastic quality and are designed with Eduard's new Mustang in mind, but could also be used with any appropriate 1:48 P-51D with fillet-less or filleted tail fins. Sold exclusively through the Sprue Brothers website, above.

**1:48**

- Yoxford Boys #1, #2 #3 #4

(check out [www.store.spruebrothers.com](http://www.store.spruebrothers.com) for full details)







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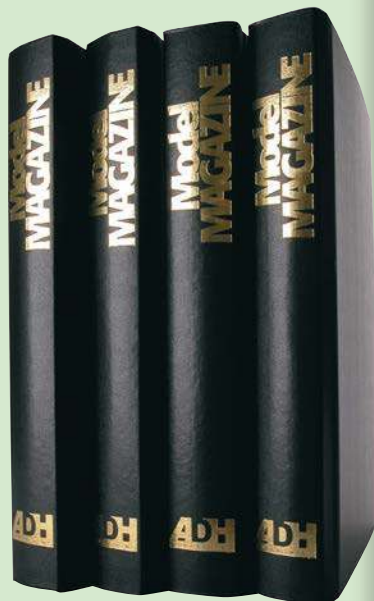
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# GLENN HOOVER



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## ZVEZDA, RUSSIA

### RUSSIAN TRUCK-MOUNTED MULTIPLE ROCKET LAUNCHER GRAD BM-21



www.hobbyco.net

SCALE: 1:35

MATERIALS: IM, SVT, WS

PITEM NO.3655

The Russian army has used Multiple Rocket Launchers since the employment of the Katyusha in WW2, and the Grad ('Hail') system was introduced in 1963 to update the weapons. The early Grad BM-21 were mounted on Ural 375D trucks, but in 1976 these were replaced with Ural 4320 trucks, as in this kit. The latest Grads have a range of 40km (25 miles), and are in use with thirty nations across the world. The kit uses parts from previous Ural trucks from Zvezda, but additional sprues provide the massive launcher system with 40 tubes and associated equipment. The exposed ends to the tubes will benefit from being thinned out for a little more scale appearance, but the whole kit is very attractive and accurate. The wheels are very distinctive, and excellent vinyl tyres are provided for the six wheels and the spare. The modeller is provided with reflective stickers for the truck mirrors, and in every respect the model can be made from the box with no difficulty. The actual rockets are not provided, but as these are pretty well invisible inside the tubes, this is not a problem. Decals are provided for three versions – a Russian 2017 parade livery, the 4th Guards Tank Division, or a colourful example on Russian Army exercises. Sadly, there are no options for other users. **CLS**

-  Simple assembly, and a really impressive final appearance
-  Parade decals need to be applied over the open ends of the rocket tubes





## DRAGON, CHINA

### STURMGESCHÜTZ III AUSF.D WITH TROPICAL AIR FILTER

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, SVT, WS • PRODUCT CODE 6905

The Sturmgeschütz III or 'Stug' is a well-known vehicle, but it is not widely appreciated that a small number served in North Africa with Sonderverband 288 early in 1942. This handful of vehicles had a number of modifications, including external air filters to clean desert dust from the engine intakes. A few vehicles in Russia apparently had similar modifications. There were many variations in these fittings, and the modeller is advised to consult photographs. Dragon first released a Stug Ausf.D in 1994, and since then it has appeared in many iterations, with this latest kit being light years ahead of previous versions. The box contains a huge number of sprues, gathered from other kits, using only a few parts from each. However, the end result is that the modeller uses the best parts, all of which are very high quality, and the final model is highly accurate and very finely moulded. Lengths of DS tracks are provided. The kit options allow for a version of Stug which saw service at the Battle of Gazala, but also a version in Russia. Indeed, the parts are in the box for making a standard Ausf.D, of which 150 were produced, or an Ausf.C of which fifty saw service. The kit therefore offers a great range of possibilities, and armed with a few references, a modeller can choose from many options. A wonderful kit out of the box. **CLS**

-  Extremely high quality of parts, extremely accurate, and offering many choices
-  Many modellers do not find that DS tracks give realistic 'sag'





OR EPS; EXTRUDED PLASTIC SECTION, F; FABRIC, IM; INJECTION MOULDED (PLASTIC), ITL; INDIVIDUAL TRACK LINKS, LC; LIQUID CEMENT, LCC; LASER CUT CARD, KS, PE; PHOTO ETCH, PEPM; PHOTO-ETCHED BADGES/MIRRORS, PMP; PRE-ASSEMBLED METAL PARTS), PS; PAPER STRIP; R; RESIN, SVT; SOFT VINYL TYRES (OR TUBING),



## AIRFIX, UK MCDONNELL DOUGLAS PHANTOM FG.1

[www.airfix.com](http://www.airfix.com)

SCALE: 1:72 • MATERIALS: IM, WS • ITEM NO.A06019

The McDonnell Douglas Phantom II as used by the British Royal Navy, then the Royal Air Force, was re-engined with the Rolls Royce Spey jet engine and as such, required some alterations to its airframe and associated control systems. Airfix have now released the FG.1 version to follow the 2017-issued FG.1 (Royal Navy) and the 2019 FGR.2 kits. Two markings-options are provided in this edition; XV573, a Medium Sea Grey/Light Aircraft Grey over Silver machine of No.43 Squadron, RAF Leuchars, 1974 and XV582, an overall Gloss Black Phantom, also from RAF Leuchars, but No.111 Squadron in 1989. Both are attractive subjects and will look fantastic once complete and in the display case. The kit comes moulded across five sprues of pale grey/blue polystyrene, plus one sprue in clear for the canopy which provides a one-piece part for the closed mode and four parts for the open position. Other options include a radar array (a little surgery is required on the nose-cone for the different tail-fins, extended/retracted undercarriage and refuelling probe and variations in the ordnance load. The surface detail is excellent in general, although the panel lines (recessed) are a little too apparent for this scale. A fabulous subject though and the schemes are very appealing.



Iconic subject, great markings, good detail



Panel lines a little too noticeable, but not a deal breaker



## FLYHAWK MODEL, CHINA RENAULT FT75BS

[www.flyhawkmodel.com](http://www.flyhawkmodel.com)

SCALE: 1:72

MATERIALS: IM, PE, WS

ITEM NO.FH3009

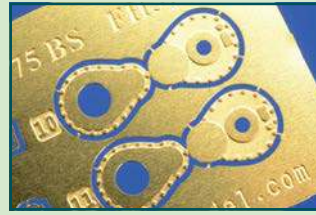
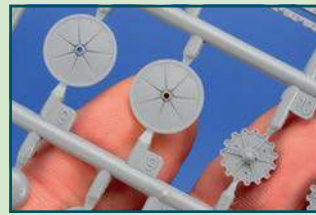
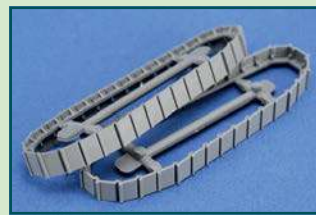
If you're used to building 1:35 armour models, most tank kits in 1:72 will seem pretty small, but the diminutive WW1 French FT series is truly tiny in this scale. With the hull moulding measuring around 5.5cm (about the length of your thumb) it's small enough to justify the manufacturer offering two whole kits in the box. You might think that scaling down to this size would mean a corresponding reduction in detail and complexity, but with Flyhawk, that's not the case at all. This kit depicts the SPG variant (the world's first, apparently), which featured a boxy casement for its 75mm Schneider gun. Thirty-nine were built. The model(s) comes with two-part, kit-plastic track runs that are finely detailed on both sides, with the suspension and side-plates moulded into one side resulting in a very convincing finished effect. The hull is finely rendered with rivets, hinges and fasteners and you'll need very good magnifiers to see what you're doing! In fact, you'll need this for all of this (these) kit's construction unless your eyes are more youthful than this reviewer's. The photo-etched brass frets provide driver's hatch handles, final-drive details, casemate ventilation grilles and even maker's plaques.



Tiny kits but wonderful detail and there are two in the box



Good eyes and tweezers will be essential





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## ARMA, POLAND HURRICANE MK.IIC

[www.armahobby.com](http://www.armahobby.com)

SCALE: 1:72 • MATERIALS: IM, PE, PCM, WS • ITEM NO.70035

We took a look at Arma Hobby's 1:72 Hurricane Mk.I last issue, a kit that was originally released in 2018 and we were mightily impressed with it. So, when we recently received this manufacturer's Hurricane Mk.IIc, we assumed (one should never assume) that it would be a modification based on the Mk.I kit, but no, it's a new tooling! Some areas have been rationalised, such as the incorporation of the pilot's foot-rests into the upper wing halves instead of a separate component as seen in the Mk.I, but it's not a simplified model, as the parts-count seems similar. The detail does feel even sharper than before and some extra surface detail is in subtle evidence; fasteners, textures and other subtle stuff; it's all absolutely fantastic. This is one of Arma's 'Expert' sets and as such it contains a small fret of photo-etched brass parts including an instrument panel, engine air-intake grille, Sutton harness, throttle lever and even landing light internals. Three sets of markings are provided; Hurricane Mk.IIc BE500 'LK-A', 87 Squadron, spring 1942 (can be finished in two forms, Ocean Grey/Dark Green or overall black), Hurricane Mk.IIc Z3899 'JX-W' 1 Squadron, Tangmere November 1941 and Hurricane Mk.IIc trop HV560 'FT-Z', 43 Squadron, Maison Blanche, Algeria, December 1942.

- + A gorgeous, new-tool kit of the Hurricane Mk.IIc, with photo-etched brass and superb surface detail
- Very little not to love here



## AIRFIX, UK

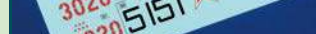
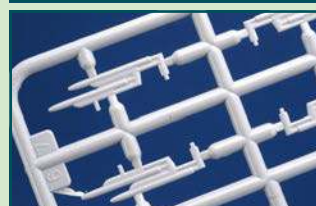
### MIKOYAN-GUREVICH MIG-17F FRESCO (SHENYANG J-5)

[www.airfix.com](http://www.airfix.com)

SCALE: 1:72 • MATERIALS: IM, WS  
ITEM NO.A03091

This is a new-tool kit from Airfix, in an era of many fantastic new models from the manufacturer, something enjoyed and welcomed by many modellers worldwide. It depicts the MiG-17F 'Fresco', a similar-looking but entirely new descendent of the MiG-15 that had a longer fuselage but narrower wingspan than its predecessor. A Soviet design, the MiG-17 was also license-built in China as the Shenyang J-5, the second option in this kit as shown on the box-top artwork. Airfix's new kit represents the MiG-17F variant, the 'basic' version with a Klimov VK-1F turbojet engine with afterburner and it comes with some well detailed parts that depict the rear section of the powerplant, visible through the open airbrakes. The cockpit is a very decent depiction, with a clear-moulded gunsight and a decal for the instrument panel dials and sidewalls, an excellent inclusion. The seat harnesses are decals but Eduard will soon release a detail set with pre-coloured metal items, along with resin wheels/tyres and canopy masks. The Chinese J-5 option represents an aircraft of the 932nd Fight Regiment of the Vietnam People's Air Force. Tho Xuan, 1969 and the overall silver Soviet machine is 'Black 51' of the USSR, 1970s.

- + Fantastic subject, nice detail everywhere, appealing Vietnam War markings option
- Hang on a little longer and wait for Eduard's add-on parts





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## ICM, UKRAINE TYPE AG 1910 PARIS TAXI

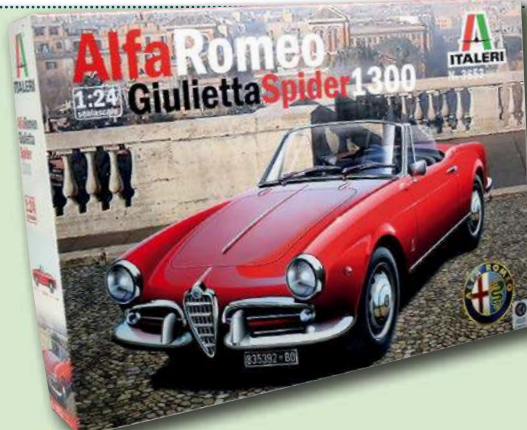
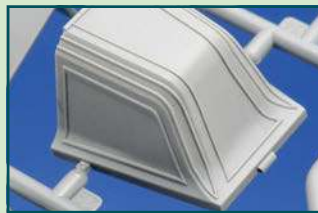
[www.icm.com.ua](http://www.icm.com.ua)

SCALE: 1:24

MATERIALS: IM, SVT, WS  
ITEM NO.24030

The 1910 Renault Type AG taxi has quite a history behind it. Not only did more than 2,000 examples serve the streets of Paris during the early years of the 20th century, the vehicle was also pressed into service by the French Army, transporting around 6,000 soldiers from Paris to the Battle of the Marne in September 1914 where they halted the German offensive, earning its nickname of 'Renault Taxi de la Marne'. ICM have created an all-new kit of this handsome car, moulding it entirely in grey polystyrene with clear windows and flexible, synthetic rubber tyres, plus decals for the number-plates. It comes with a neat depiction of its tiny, inline-twin, 1.2 litre, eight-horsepower petrol engine, plus gearbox, propeller shaft and rear live-axle, all suspended on a leaf-sprung ladder chassis, naturally. The flexible tyres fit perfectly to the beautiful spoked wheels and even sport subtle tread detail and flat-spots will barely be needed. Moulded detail is subtle and excellent and thankfully ICM have resisted adding a fabric texture on the tonneau covers as it would look out of scale. The instructions are very clear and will guide you through the assembly of this lovely little kit with ease.

-  A wonderful and very historic subject and a kit full of detail and character
-  No figures, but they will probably arrive soon from ICM, sold separately





## ITALERI, ITALY ALFA ROMEO GIULIETTA SPIDER 1300

[www.hobbyco.net](http://www.hobbyco.net)

SCALE: 1:24

MATERIALS: IM, CP, SVT, WS  
ITEM NO.3653

This lovely little Alfa Giulietta model was originally released in 1995 under the Protar label and has since been incorporated into Italeri's vast catalogue, which is great news. Whilst it's not the height of sophistication compared to more modern car kits, for a twenty-five year old release it's not bad and the bodyshell moulding does a great job of replicating the profile of this charming Italian spider in miniature. What's more, now everyone can have one in their collection for around £25, very reasonable. The kit comes with a well detailed replica of the 1.3 litre, straight-four DOHC engine, which incorporates the gearbox, sump, exhaust manifolds and, naturally, the 'Alfa Romeo' logo in cursive script on the rocker-covers. The suspension is very nicely done, with double-wishbone independent up front and a live axle on coil springs at the rear. For metal springs are included but they look a little skinny for this scale; perhaps they will visually 'thicken up' under a couple of layers of paint. The brightwork sprue is extensive and includes wheels, bumpers, headlight rims, door handles, mirrors and that famous Alfa grille. To top this off, the soft-top is included too!

-  Impeccable subject choice, great engine detail, apparently accurate body profile
-  A little gentle fettling might be needed to refine some parts





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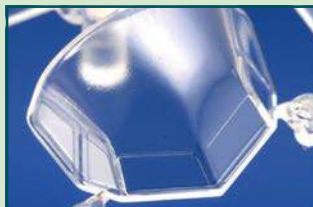


## ZVEZDA, RUSSIA BOEING 737-700/C-40B

[www.hobbyco.net](http://www.hobbyco.net)

SCALE: 1:144 • MATERIALS: IM, WS • ITEM NO.7027

Moulded – for once – in medium grey polystyrene (much better to work with than the more regular white so often seen in airliner kits), Zvezda's new 1:144 Boeing 737-700/C-40B began life in 2017 as the 737-800, followed by the a kit of the ill-fated 737-8 MAX and now the -700 variant. The C-40B is the military designation because the aircraft also serves the United States Air Force and United States Navy, replacing the ageing, 707-derived Boeing C-137 Stratoliner. The military function of this machine is front-and-centre in Zvezda's release, as the only decal option is for No.05-4613, a USAF aircraft, so if you want to depict it as a civilian airliner you'll need to source aftermarket decals. It's not really a problem though as it looks very handsome in its classic white/blue scheme, the manufacturer even providing the wing-walk lines, window surrounds and glitzy gold/black pinstripes in the form of gorgeously glossy waterslide transfers, their placement clearly shown on the colour painting guide. As with all of Zvezda's recent airliner kits, the detail is stunning, with amazingly subtle panel lines, door shut-lines and other surface features of the airframe. The smaller components such as engines, control surfaces, undercarriage and winglets are all very refined and will give the finished model a sophisticated look.



**+** An interesting variant of the omnipresent 737, with superb detail and excellent decals

**-** Some careful masking will be needed when painting



## REVELL, GERMANY KENWORTH W-900

[www.revell.de/en](http://www.revell.de/en)

SCALE: 1:25 • MATERIALS: IM, SVT, WS • ITEM NO.07659

This is another kit that has a long family history, having been issued in at least ten previous incarnations. But there's no shame in that; these large kits were superb in their day and still look spectacular once built (perhaps up-detailed a little) and painted. You get a lot for your money here, with a full build-up ladder chassis, air suspension, a fabulous engine (which will benefit from electrical cabling and cooling hoses etc), plus a cabin with separately moulded gas and brake pedals, steering column, floor shifter and an epic dashboard with an unrealistic but suitably schmaltzy woodgrain effect. As with any model kit that has had a long life, some sympathetic parts clean-up will be needed (there's some flash in parts) and constant test-fitting is a must. But, the detail looks great and the chrome parts are superb. For the very best result, it's probably best to remove the chrome (an overnight soak in domestic bleach will do this, but take great care with poisons), clean up the mould lines and seams then repaint the parts in any of the amazing chrome-effect paints available these days. This kit is ripe for super-detailing, custom painting and weathering, with magazines, food packages and sunglasses in the cabin!



**+** Trucks don't get any more American than this and the kit is still great after many years in circulation

**-** A little extra time spent on parts clean-up will be worth the effort



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## FULL-BUILD: MODERN MILITARY AVIATION

ZVEZDA 1:48 YAKOVLEV YAK-130 RUSSIAN LIGHT GROUND-ATTACK AIRCRAFT ● KIT NO.4821



# FITS LIKE A GLOVE

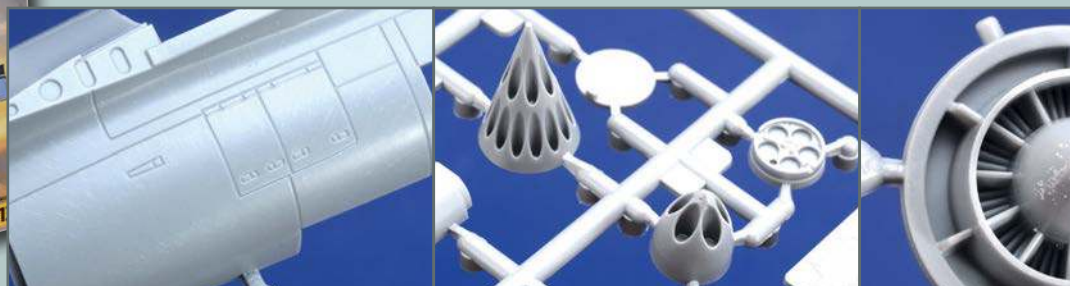
**Matthias Becker** builds Zvezda's superb 1:48 Yak-130 'Mitten' and paints it as a Bangladeshi Air Force machine

In the early 1990s, the Russian government asked its aerospace industries to develop a new aircraft to replace the Czech-made Aero L-29 Delfin and Aero L-39 Albatros jet trainers. Five design bureaus put forward proposals. Among them were the Sukhoi S-54, Myasishchev M-200, Mikoyan MiG-AT and

Yakovlev Yak-UTS. In 1991, the other proposals were dropped and only the MiG-AT and Yak-UTS remained. The Air Force of the newly-independent Russia estimated that its requirement would be about 1,000 aircraft.

Development of Yak-UTS started in 1991 and the design was completed in September 1993. With the collapse of the Soviet

Union however, Yakovlev was compelled to look for a foreign partner. After having entered discussions in 1992, in 1993 it agreed with the Italian company Aermacchi to jointly develop the plane, which now became Yak/AEM-130. The first prototype, dubbed Yak-130D, was built by Sokol at Nizhny Novgorod, Russia and was publicly unveiled in June 1995. The



Close-ups of the Yak-130's parts reveal excellent detail and flawless mouldings





aircraft made its first flight on April 25th 1996 from Zhukovsky Airport at the hands of Yakovlev chief test pilot, Andrey Sinitsyn.

In 2000, differences in priorities between the two firms had brought about an end to the partnership, with each developing the aircraft independently; the Italian version was named the M-346. Yakovlev would be able to sell its version of

the aircraft to countries such as those in the Commonwealth of Independent States, India, Slovakia and Algeria. Aermacchi would be able to sell to NATO countries, among others.

In March 2002, Commander-in-Chief Vladimir Mikhailov announced that the Yak-130 and the MiG-AT had been chosen as the Russian Air Force's new trainers. The

Yak-130, however, was said to be superior as it could serve the dual role of a trainer and combat jet. On April 10th 2002, it was announced that Yak-130 had been chosen as the winner of the tender for trainer aircraft for basic and advanced pilot training, beating the MiG-AT. On April 30th 2004, the first pre-production series Yak-130, assembled at

the Sokol plant in Nizhny Novgorod, performed its maiden flight. The aircraft was put on display for the first time at the 2005 Paris Air Show. It was followed by three more pre-series aircraft. In December 2009, the aircraft completed state trials and was accepted for service in the Russian Air Force. Aircraft history edited from Wikipedia. ▶





## FULL-BUILD: MODERN MILITARY AVIATION

ZVEZDA 1:48 YAKOVLEV YAK-130 RUSSIAN LIGHT GROUND-ATTACK AIRCRAFT ● KIT NO.4821

### ● ZVEZDA'S YAK-130

If models of this kind had hardly played a significant role in model construction not so long ago, two manufacturers are now launching a 1:48 scale Yak-130. Kitty Hawk and Zvezda have adopted this somewhat bulky aircraft, with Zvezda also delivering a 1:72 scale kit. After a lot of back and forth over which Yak-130 I should build, my choice finally fell on the Zvezda model, which in terms of surface detailing drops slightly compared to the Chinese competitor, but otherwise leaves a great impression from an-in-the box look.

Packed in a sturdy inner carton, you will encounter a twelve sprues carrying well over 300 components, seventeen clear parts, two decal sheets and a very appealing eight-page construction manual, plus a colour-printed markings plan. For the construction I also had a photo-etched sheet from Eduard (Zoom FE978) and the harnesses for the ejection seats.

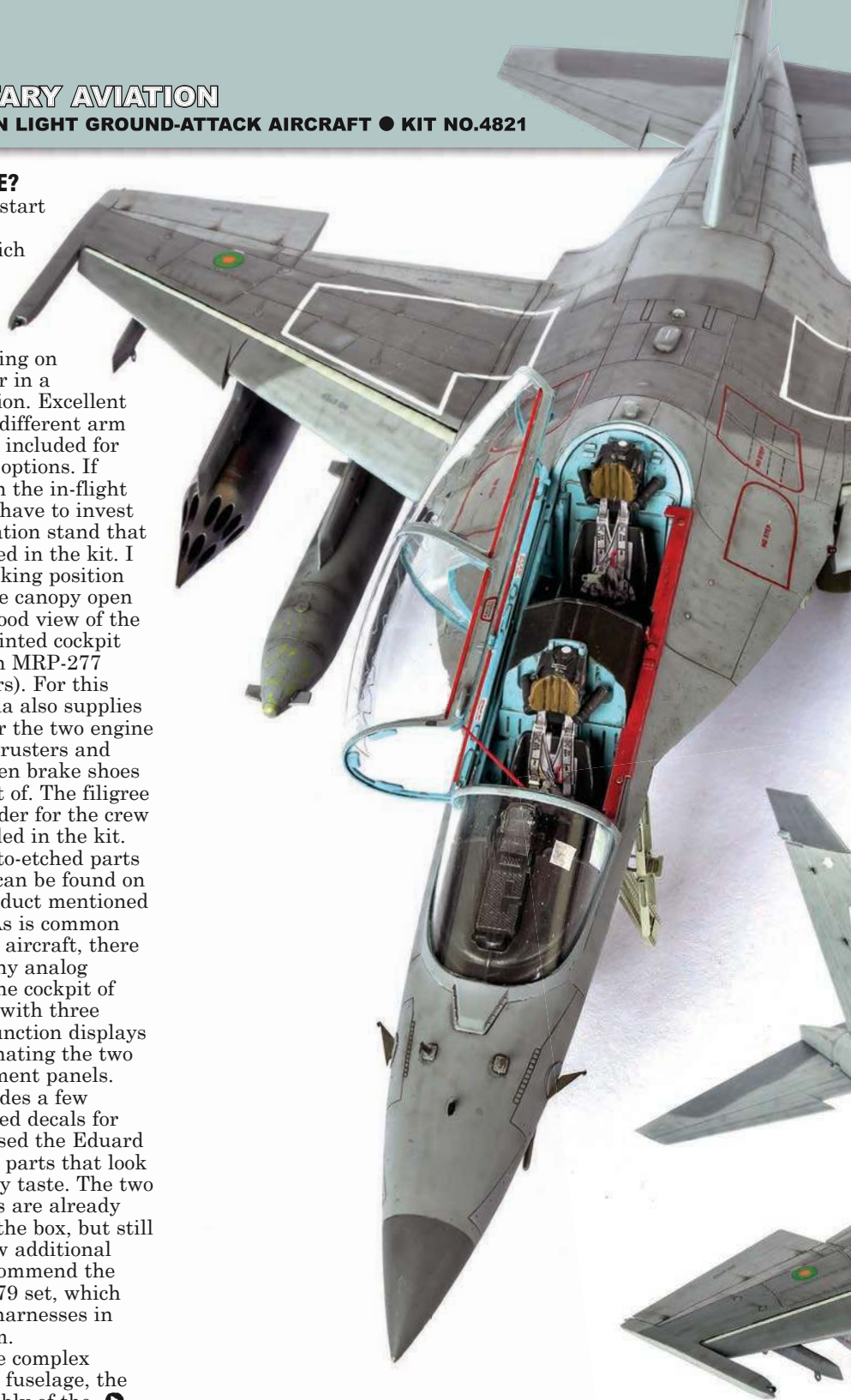
Although this is a rather small 1:48 model, the assembly is quite complex. This is mainly due to the fact that Zvezda has provided realistically deep air-inlets and also perfectly detailed landing-gear legs. All of this must first be fitted within the small, bulbous hull. Optionally, the additional air inlets on the fuselage as well as the large air brake can be shown open or closed. You also have a choice of control surfaces that can be attached in different positions. I find the drop-down flaps, which are shown as 'slotted' to be particularly successful.

### WHICH MODE?

Right at the start you have to decide in which mode you want to build the Yak-130: in flight, rolling on the ground or in a parked position. Excellent figures with different arm positions are included for the first two options. If you decide on the in-flight variant, you have to invest in a presentation stand that is not included in the kit. I liked the parking position best, with the canopy open and thus a good view of the light blue painted cockpit (painted with MRP-277 acrylic colours). For this model, Zvezda also supplies the covers for the two engine inlets, the thrusters and the APU. Even brake shoes were thought of. The filigree boarding ladder for the crew is also included in the kit.

I used photo-etched parts here, which can be found on Eduard's product mentioned previously. As is common with modern aircraft, there are hardly any analog displays in the cockpit of the Yak-130 with three large multifunction displays (MFD) dominating the two main instrument panels. Zvezda provides a few cleanly printed decals for this. I also used the Eduard photo-etched parts that look perfect for my taste. The two ejection seats are already usable from the box, but still tolerate a few additional details. I recommend the Eduard FE979 set, which supplies all harnesses in coloured form.

Despite the complex design of the fuselage, the actual assembly of the

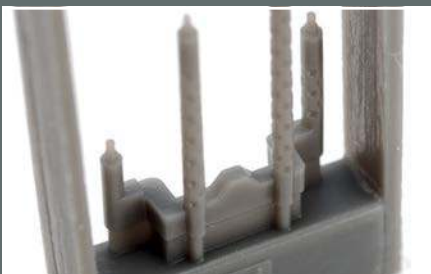


## Mini Review...



**EDUARD 1:48 P-38F/G LIGHTNING GUN BARRELS (648516) FOR TAMIYA**

Tamiya's new 1:48 Lockheed Lightning is a gorgeous kit when built straight from the box (see TMMI Issue 289 Nov 2019) but as always, more can be added! One area of the model that could do with an upgrade is the nose and the machine gun barrels specifically. This resin set provides three new M2 Browning .50cal barrels with cooling holes cast in (the kit provides a decal) plus a new 20mm cannon barrel. An easy swap for the kit parts and a significant increase in detail.







Zvezda's cockpit detail is excellent as standard, but Eduard's set will add some extra sharpness



Bangladeshi Air Force machines are painted in a two-tone grey scheme, closely matched by FS36375 Light Ghost Grey and FS36118 Gunship Grey

The Yak's massive, side-hinged canopy comes with the ejection detonation-cord moulded-in, plus a second moulding without this feature and decals provided for the cord: the choice is up to the modeller

The red FOD (foreign object damage) panels are provided in the kit box





## FULL-BUILD: MODERN MILITARY AVIATION

ZVEZDA 1:48 YAKOVLEV YAK-130 RUSSIAN LIGHT GROUND-ATTACK AIRCRAFT ● KIT NO.4821

The Bangladeshi Air Force markings come from the Kitty Hawk Yak-130 kit, not provided in the Zvezda offering





model is quite simple and requires few adjustments. I didn't have to use filler on my Yak.

The selection of ordnance is also neat. Additional tanks, rocket launchers, air-to-air missiles and the on-board cannon are all included. In addition to an abundance of maintenance and warning notices, the two enclosed decal sheets also offer markings for five versions: 2x Russia, Belarus, Myanmar and Algeria. Unfortunately, some markings were printed a little off, so the decals are only of limited use. I still had the Yak-130 kit from Kitty Hawk, whose decals are not exhilarating, but they look a little better.

### FINAL THOUGHTS

So I used these markings for a version of the Bangladeshi Air Force. These machines are painted in FS36375 Light Ghost Grey and FS36118 Gunship Grey

and carry English-language data stencilling. Subtle weathering with oil paints and pencils, as well as a little post-shading with the airbrush finally ended the construction, which gave me pure modelling fun from the very first minute! ●

### TECHSPEC...

ZVEZDA 1:48 YAKOVLEV YAK-130  
KIT NO.4821

#### Materials;

- Injection-moulded polystyrene, waterslide decals

#### Paints used:

- Mr Paint: MRP-277

#### Accessories used:

- Eduard: Zoom (FE978), Seatbelts (FE979) (also available; general details: 49978, masking sets: EX649 and EX650 and Big Ed 49225)

#### Availability;

- Zvezda models are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)
- Eduard models and accessories are widely available from good model shops and online. [www.creativemodels.co.uk](http://www.creativemodels.co.uk) [www.eduard.com](http://www.eduard.com)



Rocket launcher pods and fuel tanks are provided by Zvezda for the underwing pylons

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# Book Reviews

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## STURMGESCHÜTZ, VOL.1, LEGENDS OF WARFARE

DAVID DOYLE, SCHIFFER PUBLISHING LTD.

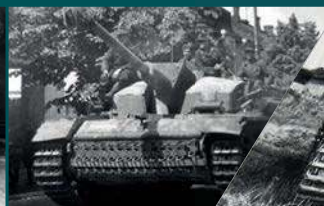
ISBN: 978-0-7643-5537-0

[www.schifferbooks.com](http://www.schifferbooks.com)

The Sturmgeschütz – or Stug – is a very well-known vehicle and much has been written about the series of types which appeared just before WW2 and featured prominently throughout the war. This book covers the versions from the pre-production types through to the ausf.F/8, the majority of the vehicles having the short 7.5cm gun. The ausf.G vehicles, which had a long gun with a potent anti-tank capability, are featured in volume 2 of the book.

The Stug played a very significant role in many battles, from 1940 onwards and on the Eastern Front the units really came into their own, taking a heavy toll of Soviet armour from the outset. Indeed, the vehicles moved from Infantry Support to Anti-Tank as their main function and they proved vital in this function.

With such a famous vehicle, it is hard for any new publication to offer something new. However, this book does exactly that, with photos chosen for clarity, and captions which explain important features in the picture – in particular the specific differences between versions of the Stugs. As a result, the book, with over 120 pages with large format pictures, is both readable and informative. This book deserves to be in every armour modeller's library. **CLS**



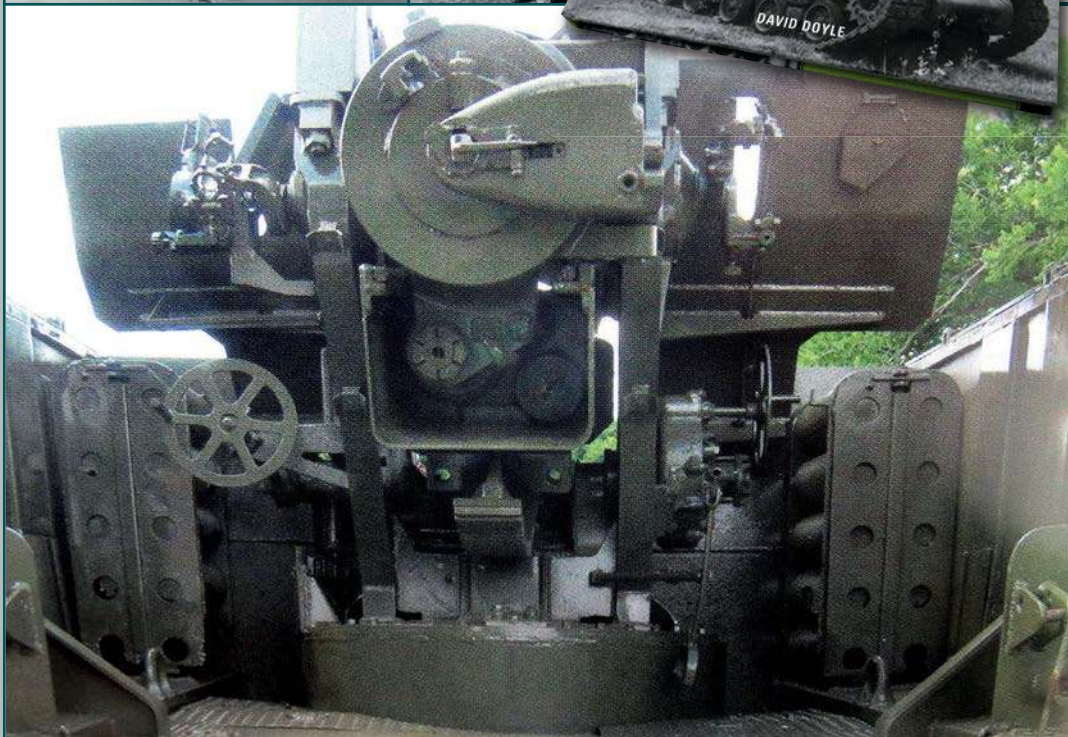
## M40 GUN MOTOR CARRIAGE, LEGENDS OF WARFARE

DAVID DOYLE, SCHIFFER PUBLISHING LTD.

ISBN: 978-0-7643-5402-1

[www.schifferbooks.com](http://www.schifferbooks.com)

When Tamiya released their kit of the M40 GMC in 2016, it was rightly greeted with great enthusiasm and this book by David Doyle provides a wealth of background information on this vehicle. Indeed, the vehicles represented by Tamiya's decals are extensively illustrated in the book. This vehicle is also available from AFV Club in 1:35 scale. This family of vehicles arrived in Europe in the last days of WW2, with single examples part of the Zebra Mission, but they were very extensively used during the Korean War, where they really proved their worth. As they were gradually replaced in US service, these vehicles were given to other armies, including the British Army. Doyle's book covers the M40 (155mm), the M43 (8-inch), and the T30 Cargo (ammunition) Carrier. Each vehicle is illustrated with large clear photos and excellent captions to explain the key features. The vehicles are shown in development stages, in factory shots, in training and in service. The two types of self-propelled gun are further shown in a large number of colour pictures of museum examples. The photo sequences show clearly the positions of the crew members and their roles in firing the guns, which would be equally important in making a model of the artillery pieces. With over 100 pages, this hardback book guides the modeller with countless little details and diorama ideas, and will be invaluable for models in any scale. **CLS**





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# NEXT ISSUE

The next issue of TMMI is April 2020  
(No.294), on sale March 19th

## POLIKARPOV DESIGN: BURRO!

ICM's I-16 Type 24 'Donkey' in 1:32



## DROWNING WOLF

Revell's 1:72 Type VIIC Uboat,  
struck by a mortal blow



## SUPRANATURE

Tamiya's new 1:24 Toyota Supra, blow-by-blow

### ...AND MUCH MORE, OF COURSE!

Due to the many factors that can influence the appearance (or non-appearance) of a model in TMMI, the items listed here are shown on a provisional basis. We endeavour to bring you these articles, but please be patient if they do not feature! Thank you for your understanding.

Order online now at; [www.tamiyamodelmagazine.com](http://www.tamiyamodelmagazine.com)

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Tamiya's Volvo heavy hauler was the Editor's 'best of show'

## HALL'S HEAVY HAULER!

**T**he question I am most frequently asked when at the Nuremberg Toy Fair is "have you seen any new models that you're really impressed by yet?" and this year my answer was a emphatic "YES"! The kit that really blew me away was Tamiya's new 1:14 radio controlled Volvo FH16 Globetrotter 750 8X4 Tow Truck. It is huge and has an amazing presence, particularly in overall bright yellow, which made it an instant eye-catcher as I walked onto Tamiya's stand. The model comes with a vast crane that can be made fully workable with the addition of a motorisation package to be released alongside the truck kit. It looked fantastic driving around in the demonstration area, with the full sound and light system blasting away! More Nuremberg news next issue. ●

### Availability;

Tamiya RC models and accessories are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)



## EDITOR'S CHOICE

### Budget paint palette

The post-Christmas period can be a tough time financially, and we are all looking for ways to save money. I found this paint palette in a well-known UK high-street discount store and it cost just £1! (I bought two, of course). It features ten wells around its periphery plus four in the centre and is ideal for mixing colour washes for weathering. It can be cleaned for re-use or just wiped out and dropped into the recycling!







# LIGHTNING STRIKE

1:72 F-35 B Lightning II STOVL Version (1425)

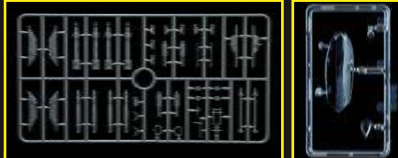
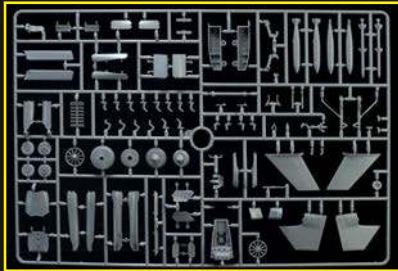
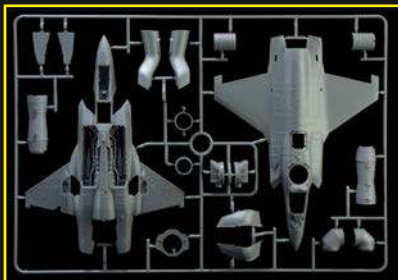
This is a new tool kit which provides fantastic detail for 1:72nd scale, you can nearly feel the uplift from the engine fan behind the cockpit.

The JSF Joint Strike Fighter program was set up to develop a new generation of all-weather multirole combat aircraft able to replace the existing United States and NATO strike-fighters.

The F-35B Lightning is a fifth-generation combat aircraft, based at RAF Marham. The short take-off and vertical landing (STOVL) capability allows it to operate from the new 'Queen Elizabeth'-class aircraft carriers, vessels of allied nations and short airstrips. In July 2012 the government decided to purchase an initial batch of 48 aircraft. By 2015 the Strategic Defence and Security Review confirmed the UK's intention to buy 138 Lightnings and undertook a massive infrastructure upgrade at RAF Marham. Britain currently has 17 F-35B's & operational sorties have been flown over Iraq and the Levant countries. Successful trials have also been undertaken aboard HMS Queen Elizabeth and it is expected that full carrier strike capability will be achieved in 2020. The last of the initial 48 Lightnings are expected for delivery in January 2025. In the meantime a schedule for the remaining 90 aircraft and further squadron formations are likely to be put in place. The F-35B is capable of conducting air-to-surface, electronic warfare, intelligence gathering and air-to-air missions simultaneously, making it the RAF's first multi-role supersonic stealth aircraft.

#### Model kit features:

- High quality, highly detailed kit
- Engine with two thrust nozzle positions, straight and rotated 90 degrees
- Panels may be opened to view interior detail
- Weapon carrier trolley included for dioramas
- American version with rocket pillars included
- Four different versions of roundel decals





# Panzerkampfwagen 38(t)

## Ausf. E/F

**1/35**  
SCALE

Length: 132mm  
Width: 62mm



19th Panzer Division, Russia, 1941

## Early Eastern Front Warrior

1/35 Military Miniature Series **German Light Tank Panzerkampfwagen 38(t) Ausf.E/F** (Item 35369)

After the effective annexation of Czechoslovakia by Nazi Germany in 1939, German forces were interested enough in the native Czechoslovak LT vz 38 light tank that they took it on and ordered production under their own categorization of 38(t), a light tank with riveted, welded armor and a perky 3.7cm gun. Early production 38(t)s took part in the early German offensives of the war, and the 38(t) underwent continued development with 1,400 produced in total. Ausf. E and F 38(t)s had additional armor across the vehicle for better survivability and were deployed during the early stages of Operation Barbarossa as Nazi Germany invaded the Soviet Union. It now appears in precise Tamiya 1/35 scale, with the compact riveted form captured in style. Don't waste this chance to get your hands on a significant element of the Wehrmacht war machine!



Fenders are a point of interest, loaded up with stowage boxes, jerry cans and the like.



The rear features various accessories and photo-etched engine grille mesh.

Comes with a realistic commander figure.

Turret front-left sight elevates in unison with gun.

Features two Eastern Front marking options.



7th Panzer Division, Russia, 1941-1942

Assembly type tracks with one-piece straight sections capture upper run 'sag.'



Photo-etched part

**38(t) base vehicles also available in the 1/35 Military Miniature Series!**



**German Tank Destroyer Marder III**  
(Item 35248)



**German Tank Destroyer Marder III M**  
(Item 35255)



**German Tank Destroyer Marder III M "Normandy Front"** (Item 35364)

★Images show assembled and painted kit.  
★Product may vary from images shown.

Check Tamiya's homepage for the latest releases! [www.tamiya.com](http://www.tamiya.com)



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