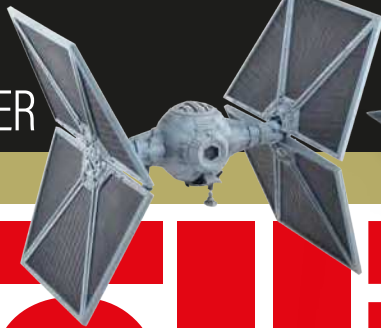


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WELCOME

WELCOME TO PHOENIX SCALE MODELLING... *INTERNATIONAL*

Our readers will no doubt be aware that last November we launched our first concept versions of Phoenix

Scale Modelling and Phoenix Scale Aviation Modelling. Right from the start we were sure that we had a winning product, by using an experienced team of writers, editors, and designers to provide the best content, and all being produced to the highest quality possible and at a reasonable price. A few months earlier we had formed Phoenix Scale Publications, a partnership of four senior partners who had worked together for many years and had a joint vision of producing a range of high-quality books and magazines. At that first meeting, we set out a very conservative five-year plan. This was based on three key elements, to offer superb Value, great Service, and total Honesty at all times. So here we are, just six months after launching our concept issue at Scale Modelworld 2021 we have just passed our year 3 target, and we have some exiting news to share, so read on!

This is the fifth issue that will be in national distribution, however, our big news is that from this issue we are going 'international' with all our subsequent issues! So, as well as being available in the UK you will now be able to buy our magazines in 280 Barnes

and Noble outlets in the United States, with a roll out to all branches planned over the next eighteen months. If that was not big enough, we are also going to be available in Australia, Canada, Singapore and in a number of selected countries across Europe! We also have an active social media presence on both Facebook, and You Tube, while our digital magazines are available on Pocketmags, and as an added bonus the digital versions have between 25 and 80 extra pages each month. So, with this issue we enter year 4 of our five-year plan, three and a half years ahead of schedule!

Allied to our magazines, we also have our 'Real to Replica' and 'Airmark' books. In our larger 'Red Series' we have the F-16 Part 1 – US Versions, and F-16 Part 2 - International versions, and in the first of our mid-range 'Blue Series' we have the E-2 Hawkeye. And if that was not enough, we are almost ready to announce a 'White Series', where we will be offering up to ten inexpensive books, which when combined will build into a comprehensive history of one of the most significant and iconic aircraft that has been in service for over 60 years! Finally, our budget 'Airmark Airguide Series' has been a great success with titles on the AV-8 Harrier, Rafale, S-3 Viking and our latest addition, the Super

Etendard, which we launched just a few weeks ago. Our book range will continue to expand with a new 'Red Series' book on Wild Weasels and Electronic Warfare Aircraft to be launched at the US Nationals in Omaha Nebraska in July, with the second 'Blue Series' title on the SAAB Gripen being launched in September. We are also planning to have one or two new titles ready by the time we reach our first anniversary at Telford in November 2022. You can find details of all our books and magazines in this issue, and on our website.

So, we would like to thank all the readers and the writing team who have joined us on this journey so far, and we offer a sincere welcome to all those from around the world who will be reading a Phoenix title for the first time! We hope you enjoy all we have to offer and look forward to your company in the future. As well as being available on newsstands, we also have a number of subscription offers available, so you can be sure your magazine copies will reach you on time, every time. So, happy modelling, and welcome to Phoenix!

*Andy Evans, Andy Folds,
David Francis, Jonathan Phillips*

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16 Swift Close, Newport Pagnell MK16 8PP

TELEPHONE – 07720 575109

EMAIL – mail@phoenixscalepublications.co.uk

DESIGNATED LLP MEMBERS – Andy Evans,
David Francis, Jonathan Phillips, Andy Folds

MANAGING EDITOR – **Andy Evans**
andy@phoenixscalepublications.co.uk

EDITOR – **David Francis**
david@phoenixscalepublications.co.uk

ASSISTANT EDITOR – **Tim Upson-Smith**
tim@phoenixscalepublications.co.uk

DESIGN & LAYOUT – **Jonathan Phillips**
jon@phoenixscalepublications.co.uk

CONTRIBUTORS – Jezz Coleman; Lee Powell;

Scott Taylor; Rene van der Hart; Eifion Davies;
Mac Patterson; Ali Beighi; Robert Stinchcombe;
Snorre Sandviken

IT SUPPORT – Mat Parks, Rural Tiger Design

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Main cover image - Rene Van Der Hart
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ALEXEL MAZDA 767B



Bobby Allison

A Regal Racer

RENE VAN DER HART BUILDS THE 1:24 MONOGRAM 1988 MILLER HIGH LIFE BUICK NASCAR OF BOBBY ALLISON

MONOGRAM

In my opinion, the cars that competed NASCAR series in the eighties and nineties, are the best looking of

them all. They looked like modern cars but still closely resembled the streetcars the models were based on. Today, all the cars are basically, the same, only differentiated by a different sticker set. A few years ago, when I became fascinated with NASCAR racers, I started to gather as many reference photographs as possible from the Internet. The car that really stood out for me, was the Miller sponsored gold and white Buick Regal from 1988. When I found out that Monogram produced a kit of this car, I just had to get one. Before I started building the kit, the chrome parts were put in a plastic container with bleach to remove the chrome, as in my opinion, chrome is way too bright for a race car. I prefer aluminium instead.



Miller Buick Regal

Manufacturer: Monogram

Kit Type: Plastic injection moulded

Kit Number: 2915

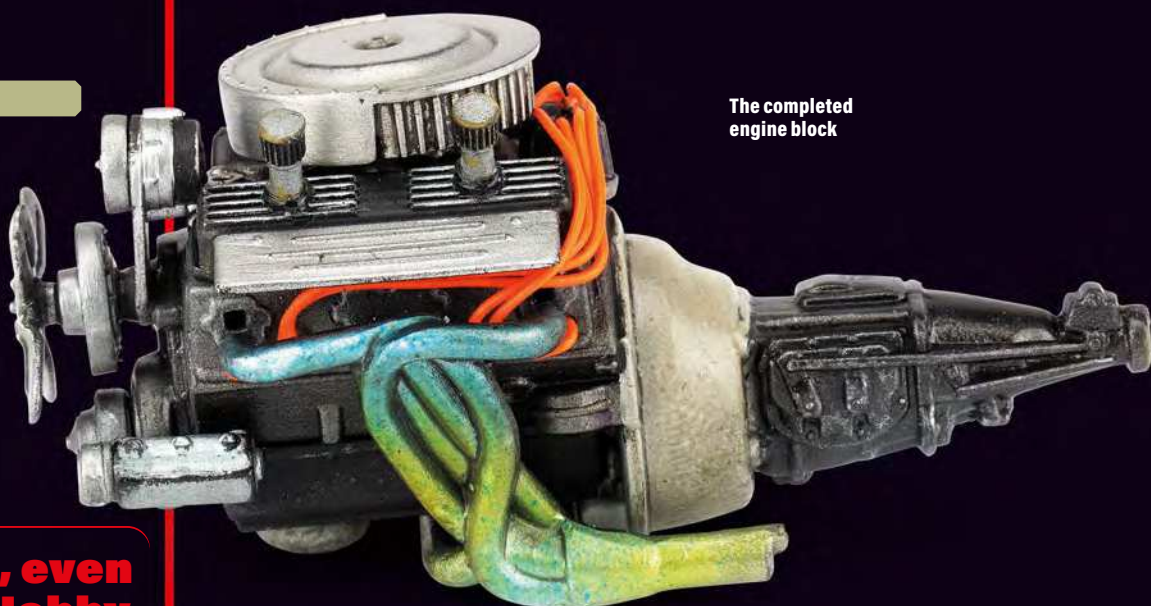




MODIFICATIONS

So, the build started with the assembly of the engine and gearbox. All the engine parts, like the rocker covers, air filter, cooling fan, sump and such were painted in different metallic colours to make the final assembly look more interesting, compared to painting everything in a single colour. The three pulleys were cut from the one-piece

Several thin, even coats of Mr Hobby Gold were then airbrushed over the body until I was satisfied with the coverage



The completed engine block

casting and cleaned. These were then painted and mounted on the front of the engine. The headers were cleaned next, painted aluminium, and stained with clear colours to simulate heat discoloration. The finished engine was put aside.

CLEANING

A lot of cleaning work went into the next part of the build, like the chassis and especially, the roll cage. All the seam lines had to be removed with a sharp knife and a sanding stick. After all parts were cleaned up, both the chassis and roll cage were separately built up. Although both would be painted the same colour, it was better to glue them together after all interior had been installed. A grey primer was then applied, and everything was painted gloss red. Both assemblies were then put aside to dry and await final assembly.



Adding some primer to the bodywork....

Putting together the roll cage and floor pan

...and roll cage...

...before adding the red shade

The rear suspension with differential and driveshaft were painted and assembled next. My reference photographs proved to be invaluable here. Not much of these parts will be visible once the car was finished, but I wanted to have at least colours more or less correct.

INTERIOR

The interior parts were painted next. The dashboard was painted flat black, and the raised details of the dials were brush painted. The seat was painted semi-gloss black and Some aftermarket seat belts were glued into position. All of the parts were then glued onto the floor and the roll cage fixed onto the chassis with a few drops of superglue. To simulate the padding on the roll cage, black heat shrink was cut open length wise and glued onto several of the bars. The last part to paint, before taking on the body, were the wheels. These were painted gold. The central mould line on the tyres was also sanded off and the wheels and tyres assembled. The bumpers and grille were glued onto the body next, as the entire body of the real car is fabricated as one complete piece with integrated bumpers. This means that all seamlines must be filled and sanded smooth before painting. The body and bonnet were primed grey on both the inside and outside, and the inside was painted red. After drying, this was masked off before painting the outside.

THE BODY

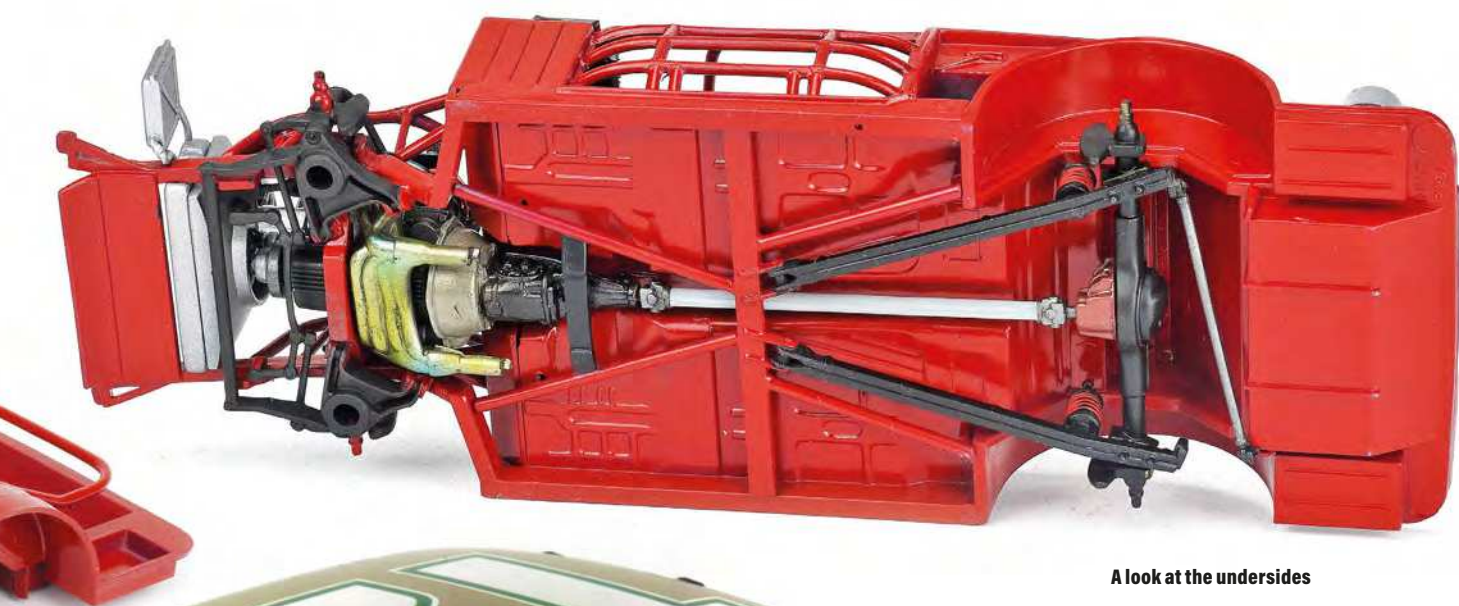
Several thin, even coats of Mr Hobby Gold were then airbrushed over the body until I was satisfied with the coverage. After the paint had dried for a couple of days, a few thin protective coats of Alclad Aqua Gloss were sprayed on. Masking and painting the white areas of the car proved to be a bit challenging, as the separation line between both colours had to follow the shape of the decals. I decided to cut out the decals I needed for these areas and used them to place the masking tape in the correct places. Tamiya Flat White was then used to paint these parts. Once the paint had dried,



The engine, interior and roll cage added



The instrument panel



A look at the undersides



Masking off
the body
shell...

...and adding Mr
Hobby Gold, and
White

Adding the
bonnet decals

Fortunately, the
decals didn't fall
apart when dipped
in water...

... although the decal film
proved to be a bit cloudy,
but quickly disappeared

another coat of Aqua Gloss was applied to get a smooth surface for the decals. Fortunately, the decals didn't fall apart when dipped in water, although the decal film proved to be a bit cloudy, but this disappeared once the decals were applied. I still like to use Johnson's 'Future' as a final coat for my car models. Some dedicated clear coats for this type of model are way too glossy for my taste. The finish was applied in a couple of this coats until I was satisfied with the overall even coverage. The completed model came up very well, but I still want to improve my car modelling skills a bit more. At least I still have many more kits from the same era to enjoy building! [more...](#)

Miller

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WRC Finnish Flyer

*EIFION DAVIES BUILDS THE 1:24
BELKITS CITROEN C3 WRC FROM
THE 'RALLY FINLAND 2017'*



BELKITS

This kit is a new release from Belkits from 2021, Craig Breen and Scott Martin's Citroen C3 WRC

from the 'Rally Finland 2017'. They also released the 'Tour De Corse 2018' at the same time, both kits are very similar with different decals and wheels being the main differences that I could see. My first impression of the kit is that it's of a very high standard and all the parts look crisp and clean on the sprues. The addition of a couple of sheets of etched parts added to the quality, and these covered brake discs, grilles, belt buckles and a few various other

Citroen C3 WRC Build

Manufacturer: Belkits

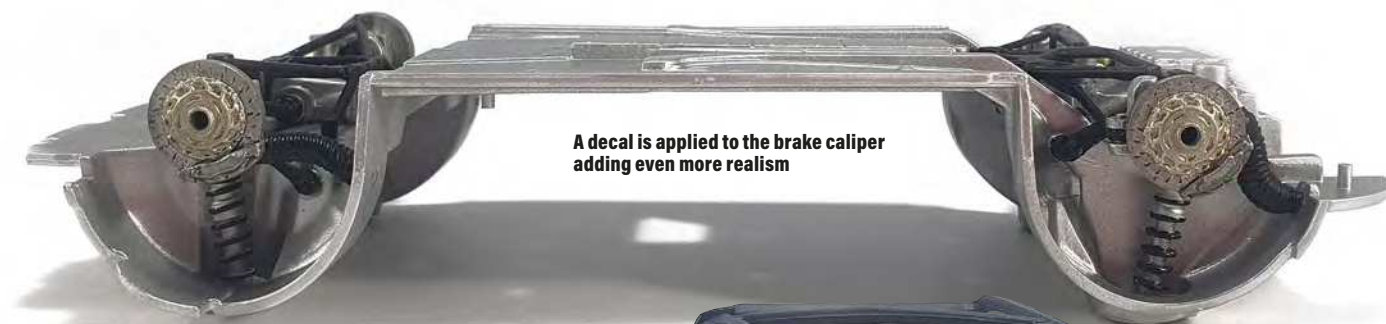
Kit Type: Plastic injection moulded

Kit Number: BEL018

bits and pieces. The kit also contained a length of fabric for all the belts and harnesses, hopefully adding some realism to these, rather than just decals.

My first job was to snip all the parts from the sprues and clean them all up ready for priming. This needed minimal effort, confirming my first impression that this was produced to a high standard. As I was removing all the





A decal is applied to the brake caliper adding even more realism

parts from the sprues, I was also separating them into sections to save some time later in the build. All the parts were primed with Alclad II Grey Primer & Microfiller, then they were wet sanded with 8,000 wet and dry sandpaper to get a really flat finish for the paint. Most of the paints used were Tamiya acrylics, but I did get some Zero Paints for key areas, these being Zero Metal Aluminium (ZP-M1009) was used for the chassis and Citroen C3 WRC (ZP-1679) was used for the bodywork.

This is a wonderful model from Belkits, but in my opinion it is for the more experienced modeller



The interior with roll cage added

Once all the parts were painted, I began putting the kit together, starting with the chassis and suspension. From the first stage of building, the quality of this kit becomes more apparent. Everything fits into place as it should, and there's a lot of detailing. The suspension is reproduced beautifully, with the coil springs and discs almost giving the impression of being real. These took the longest in detailing as the disc, caliper and springs needed to be picked out in different colours to the strut to bring them to life. Tamiya paints was used for this, with silver, aluminium, titanium,

black and gold leaf needed for these parts alone. A decal is then applied to the brake caliper adding even more realism. Belkits have slight differences here to other kit's I've built, by having you measure and drill holes yourself for standard parts on this kit. Usually these are marked on only opened up, if you're building a certain option etc. But with this kit, you need to measure, mark and drill from scratch. Definitely helping to improve our modelling skills. The chassis itself is finished off in eleven steps, the last being adding on the wheels and rubber protectors' underneath.

Next up was the interior, and again the level of detailing here is fantastic. From a fire extinguisher, a handheld computer, to a digital gear shifter. Decals are provided for these that really brings them to life. Once these were in place and decaled up, I turned my attention to the seats and harnesses. This was quite a challenge as the fabric strip now needs to be measured carefully against the seats and cut into short lengths for the harnesses. I also needed two lengths of straps to hold down the spare wheel in the boot area. This was quite a fiddly job, especially threading the straps through all the tiny etched buckles and clips. I think this was one of the longest jobs of the whole build. Once all the straps were ready, the seats were prepared by fitting on the carbon fibre decals. The decals when applied looked as if they'd never conform to the shape of the seat, but with a couple of coats of Micro Sol, they adhered perfectly to the seat. Once they'd been left to dry for a couple of days, I then fitted all the straps and buckles, these were really added to by a simple application of a decal to represent the shoulder harness.

When I fitted the spare wheel in place, I realised there wasn't much fabric left and



The chassis plate with interior being added



it's necessary to measure what you need very carefully, so you don't end up short. All the straps were put in place using a small amount of Deluxe Materials Rocket CA Glue Gel, applied in small amounts using a cocktail stick. The rest of the interior was then assembled, with the dashboard, door panels, roll cage all fitted into place. The final part was to attach the tails of the harnesses around the roll cage to anchor them in place. The Bodysell once painted with the Zero Paints was given a coat of Zero Paints Clearcoat Lacquer (ZP-3042) and left to harden for a couple of days, before the decals were applied. Applying the decals took me three evenings, ensuring they were dry enough to handle when handling. The decals (from Cartograf) took nicely to the surface and conformed to all bumps and curves once Micro Sol was applied. Two coats of this were applied to the rear wheel arch decals as they had quite a big curve to adhere to, all the others settled perfectly after one coat.

A look at the undersides



I used Zero Paints colours for the bodywork



Adding the many decals





You even get a Makita drill!



Etched buckles make all the difference





I added my own carbon fibre decals, using Tamiya 12681 Carbon Fibre Sheet to the rear windows, the front splitter, and the sides of the engine guard underneath the car. As the rear spoiler was all covered in carbon fibre decals, I thought I'd give this a go in other areas that I thought would have been carbon fibre also. After all the decaling was complete it was given a light coat of clearcoat to seal them in prior to the wet coats it then received to give it a high gloss finish. Then all the last pieces of detailing were added on, door mirrors, aerials, lights, and windows.

I left the rear spoiler off until I'd married the bodyshell to the interior and chassis as I was afraid it would pop out of place with the manhandling needed.

The interior was glued onto the chassis, and this is when I added in the pump and drill that comes with the kit. The drill I painted to represent a Makita model and glued it in place. Sadly, this now remains hidden after the rear spoiler was added on, but at least

I know it's there. The last pieces of the kit that were fitted are the metal fenders placed on the front corners of the car. These were supplied in metal in the kit and were fitted in place with a small amount of CA glue.

This is a wonderful model from Belkits, but in my opinion it is for the more experienced modeller. The instructions aren't the clearest in some areas, but don't let that take away from the fact it's a highly detailed kit and was a joy to put together (even worth all the blood sweat and tears of the harnesses). It was a bonus for me finding Zero Paints made the correct colours for this in a set of three bottles. This, combined with their clearcoat lacquer gave it a great finish. I've enjoyed this build so much, I've already purchased their kit of Roger Clark's winning Mk1 Ford Escort RS1600, from the 1972 RAC Rally. modeling.com



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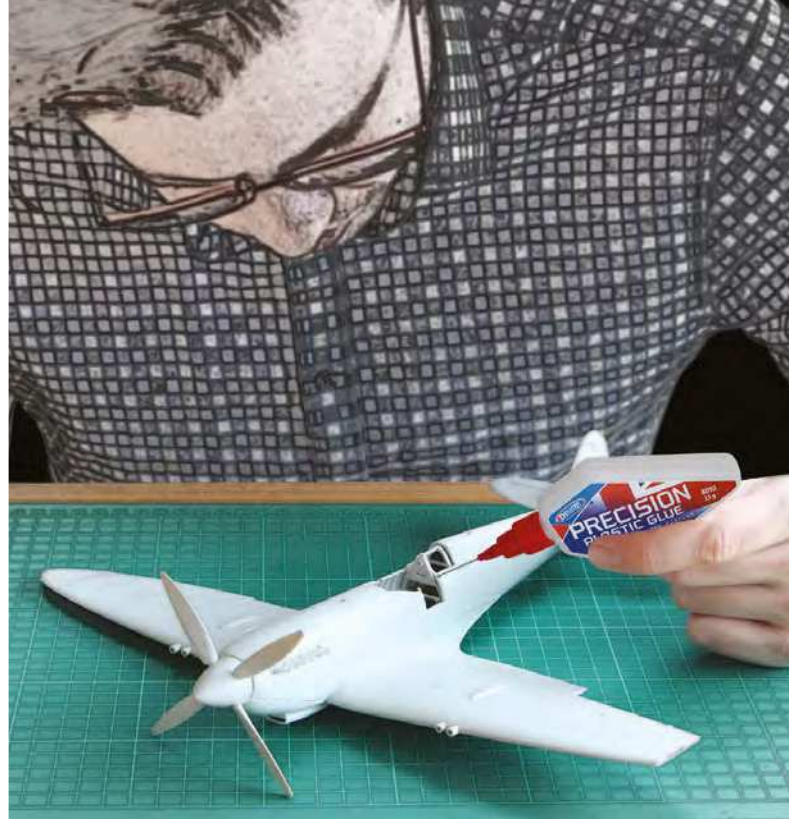
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Herbie Goes Bananas!

*EIFION DAVIES BUILDS THE 1:24 MOVIE
STAR TAMIYA VW 1300 BEETLE*



TAMIYA



licking through the TV channels one afternoon I had a blast from the past when I saw the movie

'Herbie Goes Bananas' was on. Having not seen this film in over twenty years, I just had to sit down (much to the kid's disgust) and watch it. Later that evening I dug through my stash as I was sure I had a VW Beetle in there somewhere. The kit I found was the Tamiya Volkswagen 1300 Beetle. A quick search online and I found some 'Herbie' decals and decided to convert the Tamiya kit into 'Herbie'. Looking into what was needed, it seemed the decals were almost it, except for needing to replicate the opening canvas roof that Herbie had. I decided to build it as

Volkswagen 1300 Beetle

Manufacturer: Tamiya

Scale: 1:24

Kit Type: Plastic injection moulded

Kit Number: 24136

it was straight from the box, having already debated whether or not to cut open the roof to replicate the canvas roof half open, and having decided not to.

SPARES BOX

Before starting the build, I hunted through my 'spares-boxes' for a material that was suitable to use on the roof, but nothing I had seemed suitable. The next day in work, I came across



A quick search online and I found some 'Herbie' decals

some small plastic wallets for price tags that were torn and being thrown away. Looking at these I saw they had a slight 'dimpling' effect that seemed suitable. Taking some home I found one that seemed to fit the bill and cut it down to size. With the decals on their way, a 'canvas' roof ready, I started on the build. Being a Tamiya kit, this Beetle nearly built itself! The level of detail throughout was exceptional and was a joy to build. As the car was going to be built on off white or cream colour, I decided on dark grey for the interior door panels and floor, with the seats being a lighter grey. For me the one area that lacked details in this kit, is the dashboard, coming in one solid piece, without any decals to enhance it. This was painted an off white to match the exterior, with some details (sparse as they were) picked out in chrome.

PAINTING

For the exterior paint I used Tamiya X-1 White and added a couple of drops of XF-15 Flesh to darken it down to a cream finish. Once I had what I thought was an adequate shade, the shell was painted. The small rectangle of plastic was treated to some dark grey paint, before being carefully glued into place on the roof, being careful to keep it centralised. The shell was put aside to allow the glue to dry, whilst I went to work on the wheels. These had all been treated to the same mix of white as the body shell, and now the tyres and chrome caps were added on. The next day the whole bodysell was treated to one more coat of gloss, ready for the newly arrived decals. After this had dried overnight, the decals and clear plastic were placed on the shell. The decals were nice and thin and conformed well with the shape of the car, especially around the bonnet and boot areas. One final coat of gloss and then it was ready to be put together.

CHROME

The final pieces of chrome were fitted, being Tamiya, these were numerous and well moulded. Front lights, wing indicators and such were all then added. For me, the small pieces of chrome as boot and bonnet handles really added to the look. Sitting there at my bench looking at the model, the light caught the big droopy headlights, and bang, I had Herbie sat there looking back at me. My only regret with this build is that the roof decal was quite thin, and I should have painted white underneath before placing this on, as the dark grey colour of the panel has muted down the white in the stripe. I think this build has opened my eyes to the fact that we have objects in our everyday lives that we can use to enhance our models without necessarily going for the expensive aftermarket parts.

lotus series II A Super 7

MARK THOMSON BUILDS THE 1:24 TAMIYA LOTUS SERIES 2 KIT

TAMIYA

Lotus is a British manufacturer that was prolific in making cars for the racetrack. The Lotus

Seven grew out of Colin Chapman's sporting interest in the Austin Sevens and was a direct development of the Lotus MK.VI. The early layout had simple body panels attached to a sturdy space frame, motorcycle type fenders and little protection from inclement weather. In the late 1950's England had a heavy tax on new cars, Chapman decided to take advantage of the tax rule. He offered a comprehensive kit which could be assembled in a short time



without any special tools. This meant that a sports car enthusiast could obtain a very high-performance vehicle for a cost of only £526! The philosophy behind all of Colin Chapman's designs was quickness through less weight and simplicity. The Super 7 is a prime example of this concept. It is a real credit to the designers and exemplifies how successful the Super 7 concept was that the same basic design is still in production today more than sixty years since its introduction, and is still being built, driven, and cherished by sports car enthusiasts around the world.

The Lotus 7 will be familiar to anyone with a passing interest in cars. It's been in

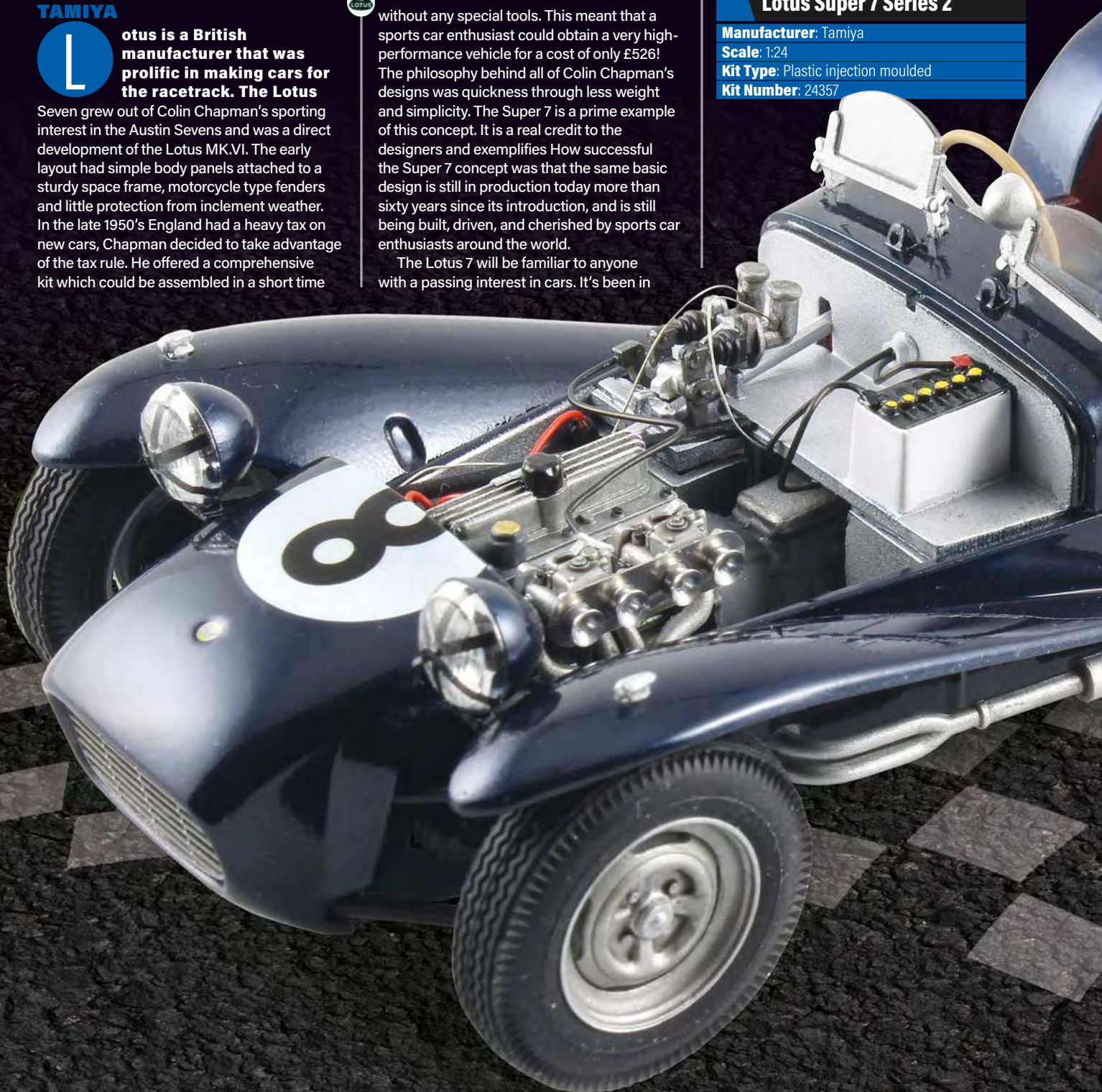
Lotus Super 7 Series 2

Manufacturer: Tamiya

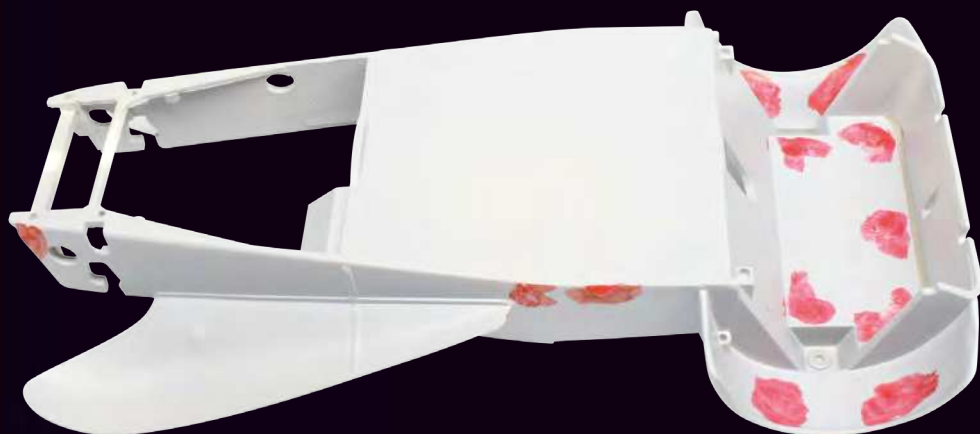
Scale: 1:24

Kit Type: Plastic injection moulded

Kit Number: 24357



production since 1957, one of longest running production cars in the world as new examples can still be purchased from Caterham cars in the UK. Between 1957 and 1973 the Seven won more than its fair share of races helped galvanise this lightweight kit car in the public's imagination across four model Series as a serious race car. The Series II car the most prolifically produced was announced in 1960



Removing some of the blemishes

it had a redesigned frame, modified rear suspension, and smaller thirteen-inch wheels. Nose cowl and fenders were switched from aluminium to FRP, plus a higher-performance engine was employed in Super 7 cars. The Lotus Super Seven is powered by a Ford Cosworth 4-cylinder 1.3L engine using two dual throated Weber carburettors, which produces 83 BHP at 6,000 RPM. As the years have gone on kit car enthusiasts have managed to shoehorn even more powerful engines into the chassis. This engine transmits its power through a four-speed gearbox providing a top speed, at 6,000 RPM of a little more than 160kmh. Front suspension is an independent wishbone using helical coils and anti-role bar. Steering is a very tight rack and pinion system that is quite responsive. The brakes are of the drum type, simple, positive, and effective. Rear wheels are mounted on a rigid axle and damped by large coil springs. The Lotus Super Seven therefore is a true sports car with few creature comforts. If you are looking for a smooth ride in luxurious comfort the Lotus Seven is not for you. If you are looking for phenomenal performance, economical operation and pure fun, then this car will do that, and more. This car has won more than its share of honours and will go on to win even more.

This latest Tamiya Super 7 is an enhanced reissue of the kit first released in 1984 and includes an all-new sheet of etched parts, turned-aluminium intake trumpets, and vinyl adhesive seat belts



Painting parts of the bodyshell



Adding the decals, a little detailing

Painting the engine

Lightweight and with more than ample power, plus the superb road handling it is by far one of the finest kit cars you could obtain.

This latest Tamiya Super 7 is an enhanced reissue of the kit first released in 1984 and includes an all-new sheet of etched parts, turned-aluminium intake trumpets, and vinyl adhesive seat belts. Building options include the street version or a club racer with cut-down windscreens. Parts are moulded in white to make painting easier, and the chrome parts are nice and bright. The chrome parts could be used straight-from-the-box, but I prefer to strip them back and repaint with Molotow Chrome. First released back in 1984, but don't let this put you off this new version comes with the exact same box art as the original release, but the new photo etch provides front grille, details for the radiator, brake discs, harness buckles and fixings. The harnesses themselves are effectively sticky labels providing you with a choice of three colours for the harnesses and three manufacturers.

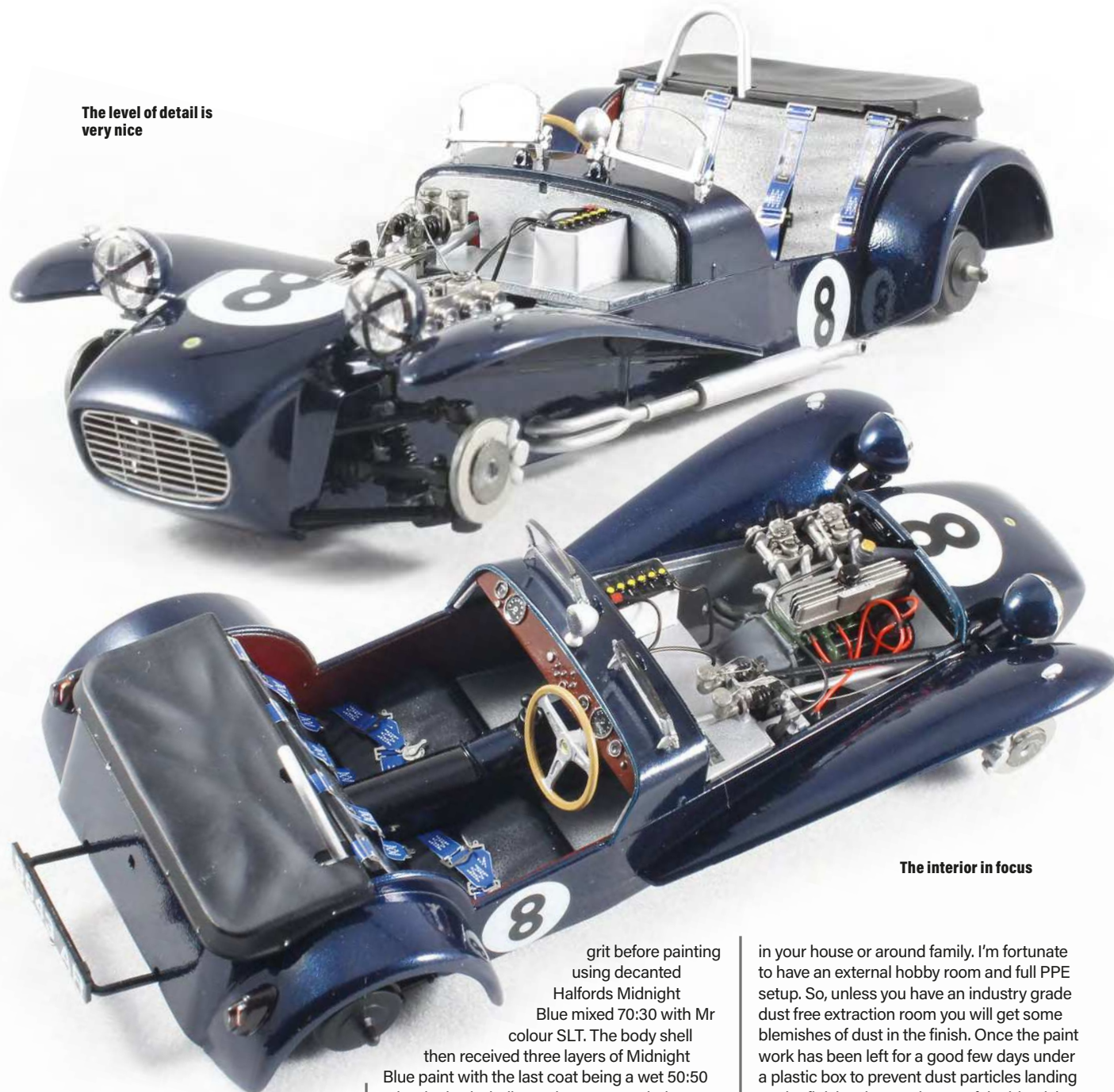
With this being a Tamiya kit, the instructions refer to the Tamiya paint range, which makes matching colours really easy. In some cases, they would have you mixing colours to get the desired shade. You also have the opportunity to pick and choose, because that's what car enthusiasts do. As I do with all my builds, I clean all the plastic parts in soapy water and allow to air dry. The first step is painting the main chassis/body because it's the central component for the rest of the build. Having done



Working on the seat harnesses



The level of detail is very nice



The interior in focus

a few car kits now, I have a process and I know that cleaning up the body shell in preparation for painting is a sound plan. The bodyshell, nose and bonnet painting are a part of the build that you need to take care with. This is part of the build that requires a few paint layers built up over time with light sanding in-between, to ensure a smooth finish at the end. The body shell had a minor seam lines and high spots that I marked with a with board marker and were taken care of by sanding. There were some large ejector pin marks on the underside, which I managed to fill and sand smooth using Flory Sanding Sticks. The body shell and chassis were then primed using Mr Surfacer 1500, 50:50 through my H&S Infinity airbrush using Mr Colour Self Levelling Thinners at a low air pressure. This was then wet sanded down with 6000 grit to check for any imperfections before re-priming. It's critical that the bodywork is perfect so any imperfection you don't take care of is multiplied with every layer added afterwards. Once again, I wet sanded with 6000

grit before painting using decanted Halfords Midnight Blue mixed 70:30 with Mr colour SLT. The body shell then received three layers of Midnight Blue paint with the last coat being a wet 50:50 mix. The bodyshell was then wet sanded with micromesh 12000 grit, to remove any imperfections. After it had been left for twenty-four hours, the Midnight Blue areas were all masked of using Tamiya tape, and with the use of the Infinity models masking boards I was able to cut out some curves as well. The underside and the interior were then painted as per the instructions for Tamiya paints.

I approached the decaling differently to my previous car models, because I was planning on doing a 2K lacquer finish, which is a new process to me. So, I ensured the bodyshell nose and bonnet was properly wiped down and ensured all dust and grease was removed. With this being the race car version, the decal call out is a bit more complex. So, time was taken when applying the decals, and they went down without any issues, using Micro Set and Sol. Once all the decals were on and conformed to all the contours of the car, it was time to apply the 2k Pro to seal them in and give the paint work a great finish. 2K is an advanced process which I wouldn't recommend for airbrushing

in your house or around family. I'm fortunate to have an external hobby room and full PPE setup. So, unless you have an industry grade dust free extraction room you will get some blemishes of dust in the finish. Once the paint work has been left for a good few days under a plastic box to prevent dust particles landing on the finish, I then took care of the blemishes. The body work had three small dust blemishes in the finish that was easily taken care of again with wet sanding with some 8000 and 12000 grit Micromesh. Again, the paint work was cleaned before adding a polish and wax with standard Auto Glym car products, and then buffed up with a micro fibre cloth. The clear parts were removed from the sprue using a fine-toothed razor saw and care was taken to clean them up with Flory Sanding Sticks. All the edges of the clear parts were then painted chrome to achieve a good finish. I masked the clear parts up using Tamiya tape strips cut using the Infinity mask cutting boards before airbrushing.

While the painted 2k parts were drying, I went through the instructions for the rest of the build breaking it up into sub-assemblies, such as the engine, front suspension, transmission, and interior. The first thing I tackled building was the engine, cleaning up all the parts with a hobby knife and sanding sticks. The parts were then put together with Tamiya Extra



Thin, before painting using the Tamiya paint callouts. They were then sealed with Vallejo Satin Varnish. Tamiya have done a good job reproducing the Super 7's Cosworth engine. While not complex, what is included looks good and makes a great starting point for up-detailing, and the new aluminium intake funnels definitely improve its overall appearance. As these would be a focal point when the bonnet is opened, so I decided to add some more detailing. I added some HT leads between the distributor and the engine block, a scratch-built coil, wires on the battery, accelerator cable and brake pipe. I made these from some different

gauge lead wires and glued them in place. It's a pretty easy option and adds quite a lot to the finished model in my opinion. All the suspension parts and brakes parts were removed from their sprues and cleaned up. The parts were fixed together before painting as per the instructions. They were then attached to the underside of the chassis along with the engine and transmission.

The steel wheels have been represented nicely, and they were painted with Tamiya XF-16 Matt Aluminium before sealing with Vallejo Metal Varnish. The tyres had a seam moulded down the centre, so this was sanded this out, which in turn gave the tyres a worn look. Unfortunately, the tyres lack any decals or paint masks to represent the manufacturer something I may go back to in the future and take care of. For the interior, all the parts were primed with Mr Surfacer 1500 and painted as detailed in the instructions. A gloss coat was applied and all the decals were added. The seats in the initial release of the kit were basic but with his upgraded release they come with seatbelts that really help make the interior pop. The assembly of the buckles each comprises of five tiny parts, which also need cleaning up. The



seatbelt decal sheet has a variety of three seatbelt colours and three manufacturers to select from. You will need to cut the seat belts from the sheet, but they were actually simple to work with, and a couple of good pairs of tweezers is a must for this. I'm not sure I know anyone who enjoys threading seatbelts, the harness parts took the best part of couple of hours to do. It wasn't too hard and to be honest gives a far superior better result to decals alone. But the work pays off as they become a focal point of the interior. One thing I plan on my





next build with seatbelts is replacing the decal that represents the belt, with some coloured ribbon to give it a more three-dimensional representation.

On to the suspension, and here a bit of care was required to ensure none of the paintwork was damaged in this process. The poseable front suspension consists of nine parts. The lower wishbones are connected and need to be twisted slightly to install, and once again good tweezers are required. The front spindles snap easily in place, but I found the steering rack was a tight fit through the holes in the chassis. The rear suspension is rather basic with only four parts and the rear sub-frame. Assembly again was straightforward, but I thought positioning the trailing arms a little tricky because the upper mounting pin is mostly hidden. Once the front nose and grille was attached and the bonnet, it was time for the attachment of all the 'fiddly bits', liable to be broken, which I always put on in the final construction stage. These were the clear parts, the lights, mirrors, wheels, and the rear leather cover. I also found the notches for the roll bar needed to be enlarged slightly to fit round the roll bar. Care was taken to add all these parts especially the clear parts that I buffed the inside of the glass before I glued down with Krystal Clear to ensure no fingerprints or dust was present.

This was a nice kit to build, and I believe this model would be suitable for anyone wanting to build a car kit. Tamiya has not only produced a kit that is easy to assemble and fit but has new parts that are a welcome improvement. Having the option to open up the bonnet is a nice touch, which enables you to show off the detail. The fit and final representation really captures the look of the real car very well and I would wholeheartedly recommend it to anyone looking to add this iconic Lotus sports car to their collection. Thanks to The Hobby Company for the review sample. modelling.com



Jurassic Excavation

BY SCOTT TAYLOR OF THE SCALE MODELLERS SUPPLY (SMS)

FUJIMI

I was recently in a local hobby store where I saw the 1:32 Fujimi Mini Excavator kit on the shelf

and just due to its uniqueness alone, I bought it with the aim to make a small scene with it. Once I got home from the store, I grabbed some tools, sat down, and got straight into the build. The kit itself was very straight forward to assemble. Everything fit together well and best part is that the digging arm moves like it would in real life by way of small pistons and hinges, as well as the main body swivelling. The tracks don't move unfortunately, but it is still awesome in how it is designed. I



didn't fix the tracks and mounts to the body with cement, so I pulled it apart into three subsections for painting. I did, however, fix the moving parts on the arm into the final position I wanted them in to make the painting easier.

To begin the painting, I primed the Excavator with SMS Surfacer Black. The Surfacer will fill in small scratches and imperfections created during the assembly. I wanted the main colour to be similar to most earth moving equipment you see around,

that mustardy yellow. For this, I used the colour Ochre from the new water based Infinite Colour range from SMS. The Ochre was thinned at approximately 20% water to paint and sprayed through a 0.3 airbrush at 20 psi. As yellow pigmented paints can be very translucent, it took four coats to get full coverage over the black. Black was chosen in particular for the base coat to give the Ochre a darker, dirtier tone. Once that was finished, it was left for twenty-four hours to dry before moving on to the detail painting.



3D printed
Triceratops skull



Adding a base coat of SMS Surfacers Black

For the excavator I used SMS Infinite Colour Ochre



Adding some detail painting

Ready to add to the diorama

I used paints from all three of the SMS ranges on this build, which goes to show how compatible they all are

Using SMS Infinite Colour Black, the first detail painting was done on the levers, the tracks, the rear cover, and the bolt heads. The next step was more detail painting, this time with SMS Advance Acrylic Lacquer Silver. Handles, pistons and then scratches and chipping were painted on with the Silver before switching to Gunmetal and repeating on the bucket, blade, and tracks. I had originally envisaged a small base with a bit of dirt and rocks for the Excavator to go with but decided to take it one step further. I found

a 3D print STL file on 'Thingiverse' as a free download of some Dinosaur skulls, so fired up the Anycubic Mono X and printed off a Triceratops skull scaled to a similar scale as the Excavator. Once it was printed and cured, I needed to come up with a way to embed it to give it the appearance of being semi excavated from the bed rock. For this, I used some soft foam to create a rough shape for the skull to sit on and then coated the foam with Incredifill UV Curing Putty.

With that sorted, I then began to work on the base. I wanted it to be two tiered so as to show that the skull was in the ground deep and the Excavator had been used to dig it out. A basic frame for the base was made using 4mm MDF board, including a sloping front. With that built, I placed the Excavator and the skull on the base in the locations that I felt were best. The skull was then fixed into place at the front using CA Glue and the Excavator was put aside until later. Using the Incredifill putty again, I coated the entire base and then applied a decent amount of fine dirt and stone. I let the dirt soak into the putty for a few minutes and then exposed it to UV via a

UV LED torch, which instantly hardened the putty and made a solid base to work with.

To create the mound of excavated dirt, I did the same as I did with the skull and created a mound using soft foam. The foam was then coated with the Incredifill putty as well and then given the same dirt treatment as the base proper. Once hardened, it was placed at the rear corner of the scene and then added some more putty and dirt to tie it to the base. I also added on some larger rocks to give the impression that they were also removed during the excavation process. With all that in place, I started airbrushing the ground and skull using SMS Premium German Dark Brown, German Sand Yellow, Buff and Brown. As with a lot of fossils found in real life, they are generally a much darker colour than the ground around them, so using Black and German Dark Brown, airbrushed on a much darker tone. With all the groundwork painted, I then hand brushed smaller stones using SMS Advance Neutral Grey, Charcoal, Graphite and Brown. I like to do this on the bases I create to help give it more colour and more things to look at when viewing the scene.

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The Excavator was then attached using CA glue to the top section, and then grass tufts were added to give the top part a more natural look with a little colour. To tie this to the base, the Excavator was weathered further using SMS Dark Earth Weathering Pigment and Dark Brown Wash. The scene was coming together well but it was still lacking something. It needed something to give it life. I found some more files to print off Thingiverse, this time some hand tools. These were again scaled to fit the rest of the scene and printed on the Mono X. They were painted using SMS Advance colours Gunmetal, Black, Red Oxide, Brown, and Silver, via hand brush and then placed on the scene around the skull. The scene still was lacking something else, so I found another 3D print STL of a construction worker figure on the 'CGTrader' website for purchase. I paid for and downloaded the file and then rescaled it

in 4 different sizes and printed them out. Once they were cured, I took the four figures and compared them to the Excavator and selected the one closest in scale.

The worker was cleaned up and primed using SMS Surfacers White. I needed to use white this time as I needed to have a white base underneath the orange fluorescent for the safety vest. For the vest, I used the water based Infinite Colour 'Lava Glow' for the fluorescent orange. The Lava Glow was

thinned 20% with water and airbrushed on at 20PSI. Once dry, the fluorescent nature of the paint came to life and then I used multiple Infinite Colour paints to hand brush the rest of the figure, mixing and blending colours as I went. The final detail added was the silver reflective stripes which were hand brushed on using SMS Advance Silver and a Size 0 brush. Once done, he was attached to the base using CA Glue and then dirtied up using some pigments and washes. So, with that last addition, I was finally happy with the scene and put the finishing touches to it including a final topcoat airbrushed on with SMS Premium Flat Clear.

This build was a great testing ground for many different techniques and products. I used paints from all three of the SMS ranges to complete it, which goes to show how compatible they all are, with water based and solvent-based paints being used on top and underneath each other. I had a great time with this one, the uniqueness of the Excavator paired with the creative freedom of 3D printing made it a much enjoyable build. 



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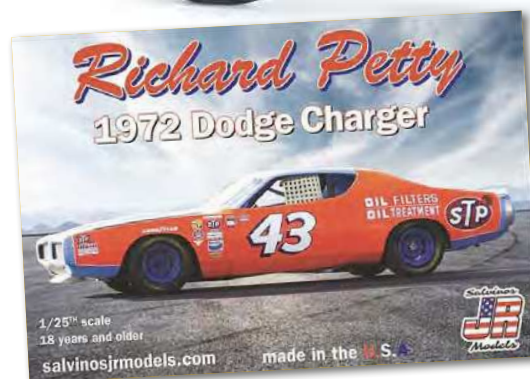
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Russian GAZ-233014 S.Tiger
Flat tire wheel set for Meng, Xact, Zvezda



1/35
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Total 9 resin parts with Easy Mask Seal

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Anti-Aircraft

*ROBERT STINCHCOMBE BUILDS THE 1:35
CYBERHOBBY FLAKPANZER V 'COELIAN'*

CYBERHOBBY

I must admit this is one of those kits that intrigued me for a while, due to the Flakpanzer turret. It was

just something different to the normal turret. So, when I saw the CyberHobby (Dragon) boxing I was pleasantly surprised. On closer inspection, even though the box says CyberHobby this is a Dragon kit, and this boxing is one of their Super Value Pack offerings, which comes with a set of figures, in this case a Panzer Rider Set. Inside there are ten grey sprues, which were very nicely

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moulded with no flash or any signs of imperfections. You also get a top and bottom hull, a clear sprue, another large sprue for the figures and two smaller sprues with some weapons. Being Dragon, this kit also had the the Magic Tracks. Lastly there was a small decal sheet with markings for two vehicles and instruction book with colour plates for the schemes, and paint call outs for Mr Hobby.



Artillery

Construction
underway



I started weathering the lower hull and running gear using a new method I recently picked up from a YouTube channel I follow

Flakpanzer V 'Coelian'

Manufacturer: CyberHobby

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 21

CONSTRUCTION

As with most armour kits, construction started with the wheels and lower hull. Here all I did with the wheels was to put them together, but I would be leaving them off until later for ease of painting. I then continued with fitting the rest of the small parts, exhausts, and tools. With most the lower hull done, I turned my attention onto the top hull, where I continued fitting, the engine grilles, hatch handles and other parts. Once all these parts were in place, I glued the top and bottom sections together, with no issues and no filler needed anywhere. The next task would be the turret, which built up with ease. When I looked at the parts at the beginning, I saw the barrels were not very well detailed, so I sourced some metal replacements, which just dropped into place and looked so much better. These were then fitted with the rest of the small parts to the turret, and that was then all the major assembly work done other than the tracks.



PAINT

So, next it was on with some paint, and I began by giving the hull an all over coat of H408 including on the wheels and exhaust. I decided that I was going to do a typical German three-tone camouflage pattern on the bottom hull and the turret would be in



The turret was painted with Red Oxide

A little primer was added

I used an aftermarket set of barrels

I used a typical German three-tone camouflage scheme.....

red primer. These colours all came from AK Interactive sets. On the exhaust, I used a small bit of sponge and with some AK Interactive Chipping Medium and dabbed it firstly on a tissue to remove some the paint and then on the exhaust to get a random effect that wouldn't cover all the under laying paint. Once this was dry, I did the same with a few of AK Interactive Rust shades to get a good rusty look, mainly concentrating from the top down towards the middle of the exhaust.

TRACKS

Then it was time for the tracks! So, after painting the rubber on the road wheels, I started to glue together the links using Tamiya Extra Thin Cement and carried on till I had two sets of different lengths. After an hour or two leaving them to dry, I put all the wheels back onto the chassis then started to put the track sections together to get right shape and curves. I also allowed for the correct amount of sag on the top. Again, using Tamiya glue these were then fixed and left to dry overnight. The next day I removed the tracks had to admit it was not as bad as I thought! I painted the tracks with a mix of Ammo by Mig Dirty Tracks and Rusty Tracks as I like the combined results. Once dry I added some weathering and then fixed them around the wheels.

WEATHERING

I then started weathering the lower hull and running gear using a new method I recently picked up from a YouTube channel I follow. So, armed with AK Interactive Dry Ground, I started to place this around the underside, the front hull and all along the bottom half. This was also added under the top hull just above where the top of the tracks were, and all around the suspension. Next, with a brush dipped in water and constantly repeating this process, I kept wiping away at areas where dirt would be less and wiping it into areas it would collect. I then carried this on all over the lower half and on the front and rear areas. I also used other pigments along

...which came out very well

the edge of the top of the chassis to simulate thrown up dried dirt. I continued this on the wheels, but more like a heavy wash in this area. Next, I made up a dust colour using Tamiya Buff and a bit of German Grey to get a sandy grey colour and sprayed this over these areas to tie them all together.

TURRET

This was then put aside to dry. While waiting, I picked up the turret and looking at pictures, I noticed that most turrets were left in their primer and had chalk marks on them. So, I carefully drew a few of these to add some interest. This was all sealed in with a coat of Johnson's Klear ready for some oil washes. Here I used a combination of colours to try to get a used grubby look using various Ammo by Mig and AK Interactive products such as



I approached the tracks with a little trepidation!



Adding some rust to the exhausts



Rust Streaks, Rain Marks, and Dirt Streaking. These were blended with a wide brush in order to create the desired effects.

I then carried out the same process over the top section and sides, and then with some metallic powder, I rubbed this along the tracks to get the worn metal look. This was also added to the edges of the turret and hull where the weld lines would show. Next, I gave the top of the hull a dark pin-wash as I felt the detail wasn't showing enough, and this worked a treat. It was then just a case of refitting the tracks which took a while with more than a touch of frustration. All was left to do now was to add a few pigments and some oil paint on the wheels to represent lubricant leaks. I also added more dust deposits on the turret. Some spent ammunition shells were then added to bring a little more interest. With that the build was complete. [modeling](#)

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Bushmaster

LEE POWELL BUILDS THE 1:72 DRAGON AUSTRALIAN ARMY'S PMV

DRAGON

T

he Bushmaster Protected Mobility Vehicle or Infantry Mobility Vehicle is an Australian-built four-wheel

drive armoured vehicle. The Bushmaster was primarily designed by the then government-owned Australian Defence Industries (ADI). The Bushmaster is currently in service with multiple nations including the Australian Army, and Air Force, the Royal Netherlands Army, the British Army, The Japan Ground Self Defense Force, and the New Zealand Army. The role of the Bushmaster is to provide protected mobility transport, with infantry dismounting from the vehicle before going into action. As the Bushmaster is lightly armoured, the term Infantry Mobility Vehicle (IMV) was initially adopted to distinguish it from a heavier wheeled or

Bushmaster

Protected Mobility Vehicle

Manufacturer: Dragon

Scale: 1:72

Kit Type: Plastic injection moulded

Kit Number: 7699

tracked armoured personnel carrier. The high-hard steel specified for Bushmaster meant that it offered better ballistic and IED protection than existing aluminium alloy clad ASLAVs and M113. Later the Bushmaster's designation was changed to Protected Mobility Vehicle (PMV). The British Army have 24 Bushmasters, used primarily to support Special Forces, these

vehicles are fitted with additional armour, Anti IED Electronics and a .50 calibre machine gun, this is the subject of this release from Dragon.

This Dragon kit was first released in 2021 with the option of two Australian vehicles, the SAS version was released shortly after with markings for a standard vehicle and two vehicles that were serving in Syria between 2016 and 2018. Inside the box are two grey sprues, a grey upper and lower body, one clear sprue, a small etched fret, two metal axles for the wheels and four rubber tyres. These are all crisply moulded with lovely levels of detail on them and no visible flash. There is also



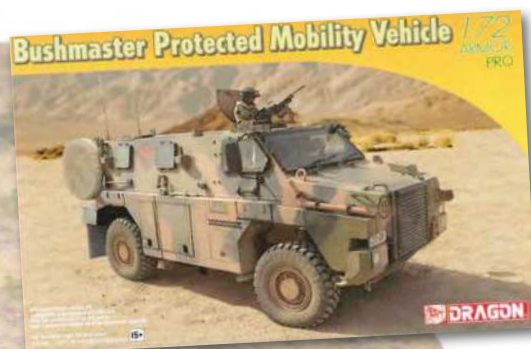


a standard Dragon instruction sheet and a tiny decal sheet with four tiny decals for the body with one of these being a number plate and also a decal to sit on the windscreen to simulate dust marks made by the provided etched windscreen wipers.

The build was very simple, happening over just six stages, I wondered how simple the build may be having so few parts, but was happy to go with it as it should make for a quicker build. Stage 1 deals with the assembly of the weapons station with the .50 Calibre machine gun, this was fiddly but looked effective when assembled. In stage 2, the windows are supposed to be added along with the four interior parts to the upper and lower halves before sealing this up, but I assembled the four interior parts and added them to the lower chassis and proceeded

This Dragon kit was first released in 2021 with the option of two Australian vehicles

to paint this up along with the interior of the upper half. The windows were also given a coat of clear blue at this point while still attached to the sprue as was seen with the effect of the toughened bullet proof glass on pictures I found of the type (and indeed the box image). Stage 3 deals with the additions of the rear panel, and lower chassis storage boxes, on this stage, two of the parts were labelled incorrectly as C12





and C13 when they should in fact be A12 and A13. Stage 4 move on to adding the front panel and suspension system plus the extra upper side armoured panels, but these were left off until the end to allow for easier masking of the windows. Hatches and wing mirrors as well as the spare wheel assembly was added in stage 5, before finally adding the front bull bars and axles and wheels in stage 6, although the tyres were left off until after the painting had been completed. Assembly of all this was quick and straightforward with no fit issues and no filler required.

The windows were fitted and masked (the windows clipped into place beautifully, I was very impressed with the fit of these!). Painting started with Tamiya Fine Grey Primer before giving a pre-shade of Hataka C125 NATO Black along all panel lines and darkened edges. A couple of light coats of Hataka C237 BS Light Stone was then sprayed overall giving a great match for pictures of the type that I have seen. The tyres were given a coat of Tamiya XF-85 Flat Rubber Black, as the black of the kit rubber tyres looked too shiny and unrealistic. When these were dry, they were attached to the wheels with a couple of spots of CA glue. A coat of Tamiya TS-13 Clear was applied next and when this had dried the few decals were applied (except for the sand effect for the windscreen) and were allowed to dry before another coat of TS-13 was used to seal the decals before applying some oils. A pin-wash

of Modellers World Black Brown Oil Wash was used in all recesses and around raised areas to pick out details, and this was then cleaned and tidied up with a cotton bud after being left to dry overnight. A coat of Tamiya TS-80 Flat clear was applied and left to dry for a couple of hours before the window masks were removed and the sand effect decal was applied to the windscreen. This looked quite effective I must admit! The upper side armour panels were added next along with four aerals made from stretched sprue, some minimal detail work was carried out with various Tamiya Acrylics at this time and was allowed to dry. To finish off a light dusting was applied around the vehicle of Modellers World Beach Sand Pigments, paying particular to the wheels and tyres.

I have to say I am a newcomer to 1:72 armour, especially to Dragon armour. I expected it to be very simplified, and in a way, it was, but the level of detail on completion looks great! I also think it looks fantastic when placed on a small Coastal Kits Display base! Thanks to the Hobby Company for the review sample. [note: my](#)



SIDE VIEW

DEF MODEL

1:35 - 35139 - STS Tiger Flat Tyre Wheel Set

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for Meng, Xact, Zvezda



1/35

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'Citadel'

1:35 - AXT351040 4.
Pz.Div. Panzer III Ausf.
E/F/G/I

1:35 - D356292 Marder I
Sd.Kfz.135 Lorraine with 75mm

www.ecelonfd.com



TAKOM

► 1:35 - 2154 M114 Early Type w/Interior

► 1:35 - 2044X Gepard A1/A2

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1/35
No. 2154

35054 - 1:35 Breda TP32

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DAS WERK

► 1:35 35028 Tiger I Late

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TETRA MODELWORKS

► 1:72 - ME72022 M983 HEMTT and M901 Launching Station w/MIM-104

► 1:72 - ME72021 SLT 56 Franziska Detail-up Set

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SPECIAL ARMOUR

► 1:35 - 239 Panhard 178B

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SIDE VIEW

GEKO MODELS

1:35 - 35GM0071 World War II British Army Open Cab Truck

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Master modeller Brett Green chose SAC gear for his 1:32 IAR-80A for additional strength and because white metal allows the angle of the gear to be adjusted even after the legs have been glued in place.



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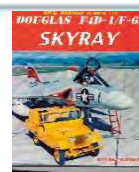
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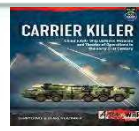
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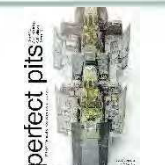
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FIGURES



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BOOKS

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AIRCRAFT

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Dassault Rafale



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1:48 Academy F-5E

56 News, Accessories,
and Decals



'Tiger, Tigre'

MAC PATTERSON BUILDS A COLOURFUL DASSAULT RAFALE B USING THE 1:48 REVELL KIT

NATO Tigers

REVELL

In an era when military aircraft tend to wear 'Fifty Shades of Grey' camouflage, any

opportunity to see these warbirds display distinctly different plumage is both welcome and exciting. This is where the NATO Tiger Association comes in! Initially devised to promote solidarity between NATO air forces, respective squadrons have earned their 'stripes' with some incredible, eye catching Tiger concepts since the early 1960's. These aircraft offer the modeller a fantastic opportunity to add an icon of aviation to their collection with a thoroughly original aesthetic. Manufacturers have not missed the opportunity to create Tiger special boxings of a wide variety of aircraft in all scales, as well as a great selection of aftermarket decal sheets dedicated to these eye-catching, if short lived schemes.



REVELL'S RAFALE

Look around your local model store, show or online and you'll quickly find an appealing subject, so where to begin? Revell have a record of releasing these special markings across their portfolio, and these kits are generally well detailed, reasonably priced with quality decal sheets. Their release of the two-seater Dassault Rafale B has been on the market for a number of years but is regarded as being one of Revell's finest 1/48 productions. The Rafale is the 21st Century incarnation of the Dassault delta wing design philosophy that stretches back to the 1960's with the classic Mirage. Joining frontline service at roughly the

Dassault Rafale B

Manufacturer: Revell

Scale: 1/48

Kit Type: Injection moulded plastic

Kit Number: 04610





AUTO



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AIRCRAFT



FIGURES



SCI-FI



BOOKS



I elected to add couple of Hasegawa pilot figures to the cockpit, I especially wanted them to be wearing Tiger striped bone domes

Armee de l'Air Rafales carry medium satin air superiority grey camouflage, and there appears to be some conjecture about the specifics of this grey

same time as the Eurofighter and sharing some of the design features, notably the distinctive canards, the Rafale looks far more elegant, with softer curves as opposed to the Typhoons sharper edges. Presented in typical Revell style the six plastic and one clear sprue, these are flash free, displaying very fine recessed detail and initial inspection bodes well for the build.

COCKPIT

The cockpit has raised detailing to the side consoles with well-defined knobs and switches, and after a coat of interior grey, these switches were picked out following photographic reference. The ejection seats are respectable from the box, but to add a little extra character, I elected to add couple of Hasegawa pilot figures to the cockpit, I especially wanted them to be wearing Tiger striped bone domes. The fit of the instrument panels and shroud was perfect, I picked out the prominent display with clear green.

FUSELGE

The next few stages revealed the quality of Revell's engineering, as the Rafale has obviously been created to get both single and two-seater variants from the moulds, and this would generally start the alarm bells ringing about alignment and fit



For the camouflage I went with Mission Models MMP 118 Medium Grey, with a touch of MMP-116 Light Grey

The kit provides two marking options...

issues, however the dorsal parts for the B model fit perfectly with barely a step visible. The complete cockpit section is located quickly and accurately into the upper fuselage part, the wheel wells similarly fitting well into the lower fuselage. The upper and lower fuselage can now be mated, once more without anguish.

WINGS

The fantastic detail is also evident on the delta wing parts, when brought together with the fuselage, the resulting panel line is fine and scale appropriate, intake and tail parts are secured in place and the Rafale takes on its beautiful, futuristic form. For viewers of a certain age, it has a look of an Angel Interceptor from Gerry Anderson's 'Captain Scarlett' TV show. I wonder if this was shown on French television back in the day and inspired a very young aircraft designer? Adding weight to the front end, I glued the nosecone in place, here we have to praise Revell once more as this kit

is one of the very few where I haven't used a drop of filler, the Rafale was now ready for its paint and decal job.

CAMOUFLAGE

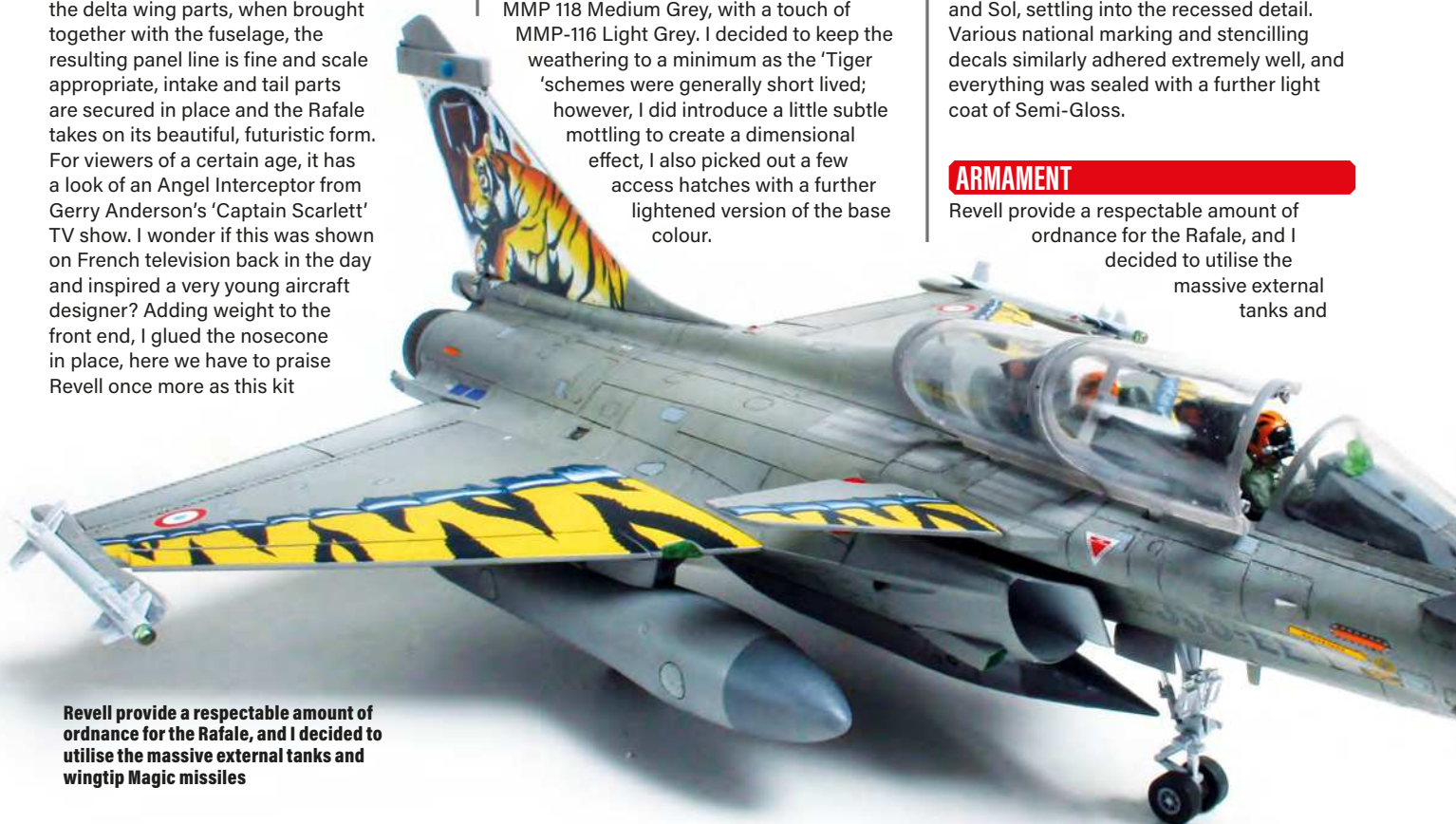
Armee de l'Air Rafales carry medium satin air superiority grey camouflage, and there appears to be some conjecture about the specifics of this grey, so tracking down an appropriate colour was a challenge. Eventually I elected to go for Mission Models MMP 118 Medium Grey, with a touch of MMP-116 Light Grey. I decided to keep the weathering to a minimum as the 'Tiger' schemes were generally short lived; however, I did introduce a little subtle mottling to create a dimensional effect, I also picked out a few access hatches with a further lightened version of the base colour.

DECALS

The kit provides two marking options, but the 2006 Tiger Meet display aircraft from EC5/330 was the obvious choice. The large Tiger design for the tail and the reveal effect on the leading edges are the real showstoppers on the decal sheet, they are well printed with dense colours. I sealed the paint job with Mission Model MMA-005 Semi-Gloss ahead of the decaling process. The markings conformed and bedded down brilliantly with the help of Micro Set and Sol, settling into the recessed detail. Various national marking and stencilling decals similarly adhered extremely well, and everything was sealed with a further light coat of Semi-Gloss.

ARMAMENT

Revell provide a respectable amount of ordnance for the Rafale, and I decided to utilise the massive external tanks and



Revell provide a respectable amount of ordnance for the Rafale, and I decided to utilise the massive external tanks and wingtip Magic missiles



....but the 2006 Tiger Meet display aircraft from EC5/330 was the obvious choice



....and the 'reveal effect' on the leading edges are the real showstoppers



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03820 Eurofighter Typhoon "Black Jack", 1:48

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03829 Messerschmitt Bf109 G2/4, 1:32

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Available from all good model stockists and online from

hobbycraft

hobbycraft.co.uk/brand/revell



wingtip Magic missiles. The undercarriage and wheel detailing appears accurate and certainly looks the part once painted, weathered and secured into place. Final touches include detailing and adding the large, clear canopy, along with a number of hazard warning lights and the large refilling probe.

CONCLUSION

The Revell Rafale is one of their classic productions, being detailed, accurate and well-priced. It also builds like a dream with no vices, and therefore is highly recommended, especially if you fancy grabbing a 'Tiger' by the tail... [modelimmo](http://www.modelimmo.com)



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Persian Tiger

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ACADEMY

Iran received a total of 166 F-5E/Fs and fifteen RF-5As with deliveries ending in 1976. During the Iran-Iraq

war F-5s were heavily involved, flying air-to-air and air-to-ground sorties. The 'Azarakhsh' is an F-5E built or modified in Iran with unknown modifications, and Iran currently produces an indigenous aircraft titled the 'Saegheh', which is built on the same platform as the F-5. I have always liked aircraft with colourful scheme, and this 'Persian Tiger' was no exception. For this build I'm using the 1:48 Kinetic F-5E, with a Dream Model cockpit. So, let's get on with the project. www.phoenixscalepublications.co.uk



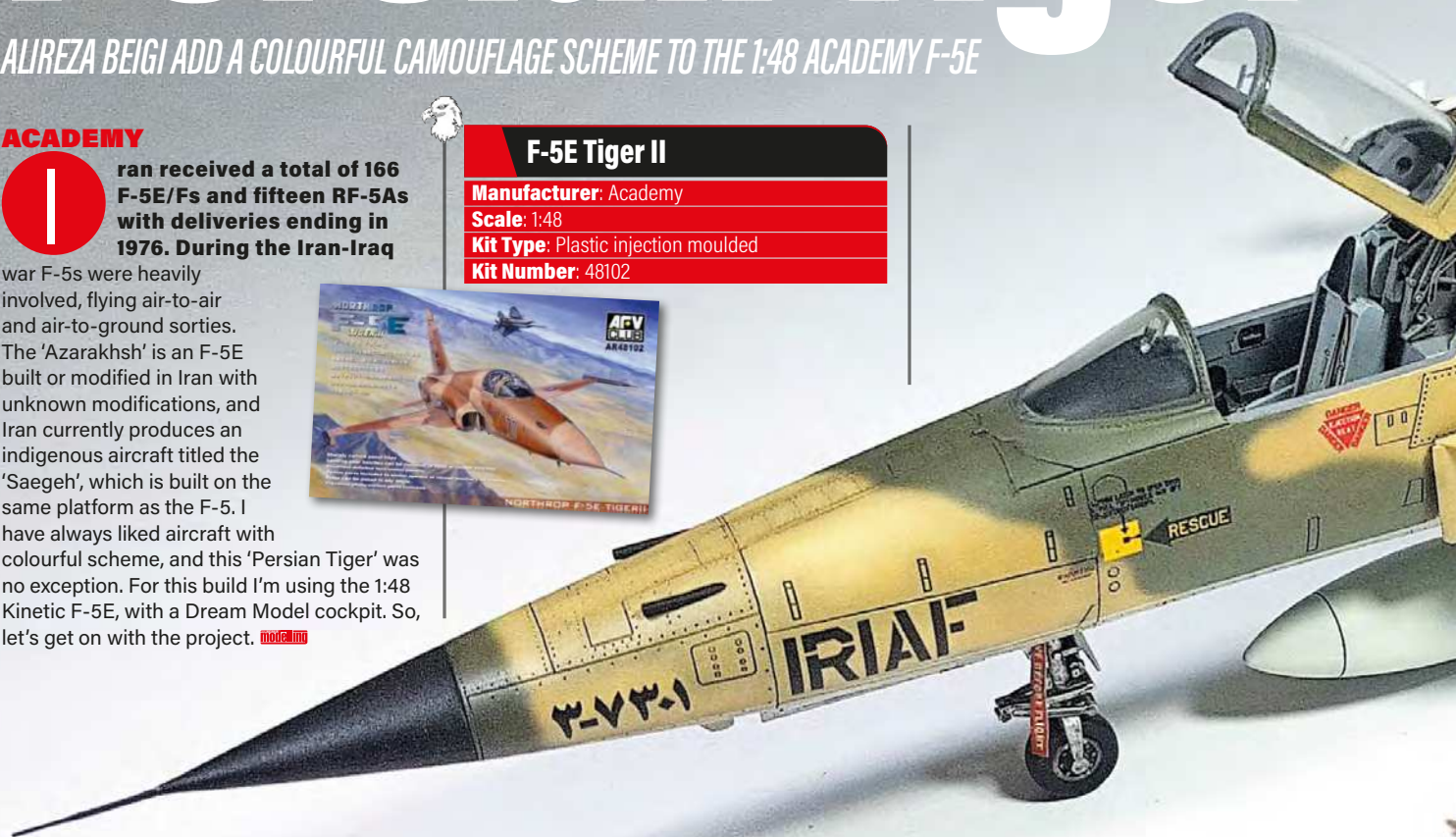
F-5E Tiger II

Manufacturer: Academy

Scale: 1:48

Kit Type: Plastic injection moulded

Kit Number: 48102



I used a Dream Model cockpit set.....



...which came out very nicely



AUTO



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FIGURES



SCI-FI



BOOKS



Painting and weathering the landing gear



I cleaned the surface with alcohol then I on some Ammo by MIG Grey Primer



Detailing the access ladder



Adding some pre-shading

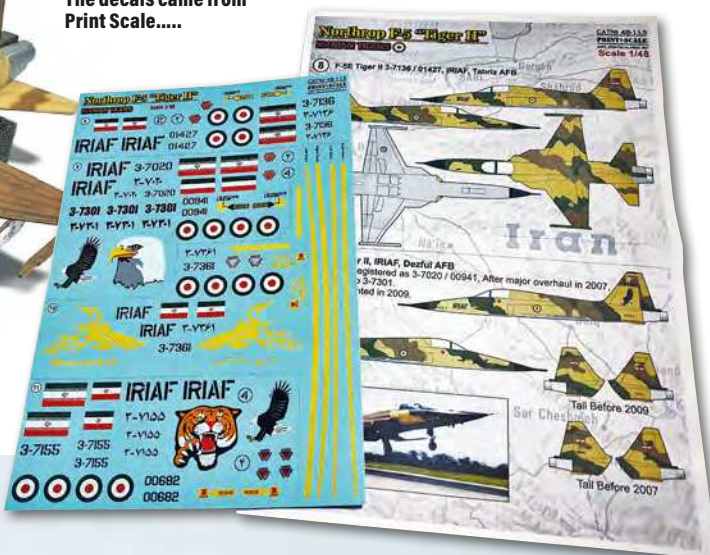


To paint the Iranian scheme for the Brown I used 30% Tamiya White with 70 % Tamiya XF-64, for the Sand I used a 1:1mix of Tamiya XF-59 and Tamiya XF-2, and for the Green I used Hobby Color H-309 straight from the bottle



The undersides were painted with Hobby Color H-311

The decals came from Print Scale.....



...and settled well with some Mr Mark Setter



Adding a panel line wash....



...using Ammo by Mig washes



AUTO



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FIGURES



SCI-FI



BOOKS

55

Ready for final assembly



SIDE VIEW

HGW DECALS

572018 - 1:72 P-47D Razorback 318th FG Over Saipan

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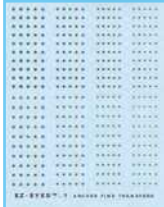
Historex Agents



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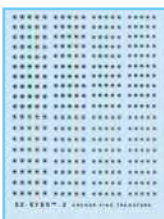


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1/35th

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German WWII fire extinguisher placards and interior placards

1/35th

AR77046

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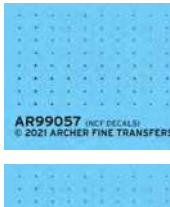
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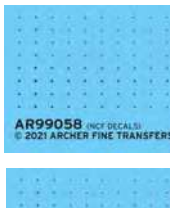
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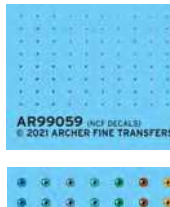
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1/24th Figures
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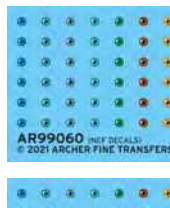
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HUMAN IRISES

1/20th and 90mm Figures
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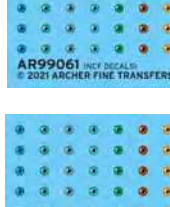
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HUMAN IRISES

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AR88001

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Sheet comes with 30 linear inches (76cm) of .015 inch (.38mm) wide beads, 24 linear inches (60cm) of both .025 inch (.64cm) and .030 inch (.76mm) wide beads, and 20 linear inches (50cm) of .040 inch (1.02mm) wide beads. Instructions included.



RESIN WELD BEADS

Various scales

AR88006

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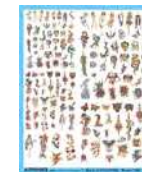


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Various scales

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German late war uniform patches for infantry troops

1/35th

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With white Waffenfarbe for infantry. Comes with enough for seven figures with extras including Tank Destruction patches. Late War generally means 1943 to 1945 but there was an indefinite transition period and it was common to find troops wearing Early War patches well into the later stages of the war. Comes with detailed placement instructions.



German late war shoulder boards for infantry troops

1/35th

AR99050A

With white Waffenfarbe for infantry troops. Comes with enough for over forty figures. Late War generally means 1943 to 1945 but there was an indefinite transition period and it was common to find troops wearing Early War patches well into the later stages of the war. Comes with detailed placement instructions.

Just a small section



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FIGURES



SCI-FI



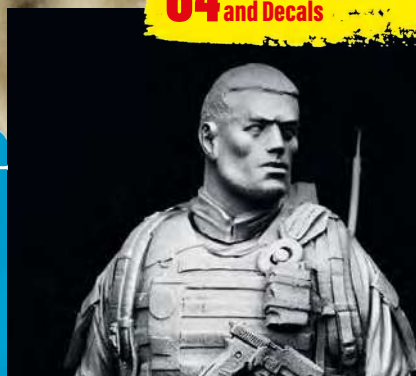
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3D Printed Figure

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and Decals





I can honestly say that one of the best things about having a 3D printer is the endless possibilities to create your own unique models

Tusken Raider

JEZZ COLEMAN DETAILS A 3D PRINTED STAR WARS FIGURE

SAND PEOPLE

Tusken Raiders or as they are lesser known 'Sand People' are fictional creatures from the Star

Wars Universe. They are characterised as a nomadic race who live on the planet of Tatooine. They first appeared in the 1977 film 'A New Hope' and have popped up in many of the sequels throughout the years, latterly in the 'Book of Boba Fett'. As a big Star Wars fan and also an avid modeller, and the owner of a 3D printer, I have been able to download and print a range of subjects from the Star Wars series. For me the original movies are

the best, and growing up in the 1980s, one iconic image sticks in my mind, that being a Tusken Raider standing alone on a rock with arms held high above his head and his shrieking cry echoing through the canyons of Tatooine.

So, on with the build, and I came across the file for this print on Etsy one evening for less than the price of a cup of coffee! It was quickly downloaded and immediately sent across to my printing software. I then

set about adding the printing supports to the various pieces, that once printed would make the completed Tusken Raider. The file comprised of an upper and lower torso with separate pieces for the feet, forearms, staff, and head. One of the great things about 3D printing is you can scale a model to whatever







size you wish, or at least whatever size your printer is capable of printing. I chose to print mine at approximately 30cm, including the base to keep it in line with other figures in my collection.

Once everything had been printed and the printing supports were removed, I cleaned up the various parts and assembled the upper and lower torso. All the parts then received a coat of black primer, followed by a light coat of white to highlight the details. I began to add paint to the clothing, and due to sandy environment these characters lived in, I wanted to try to replicate their very dusty and weather-beaten clothing. To achieve this I used several colours, ranging from the darkest desert yellow, all the way through the spectrum of sandy tones to a light buff. The bandaging on the lower legs and forearms was painted in a dark linen and the head bandaging was also painted using a khaki brown. With all the main colours blocked in, I then used a fine paintbrush to pick out the finer details on the mask and goggles and also on the staff and gloves, which were painted in a red brown.

I wanted the base to contrast against the figure, so I decided to go with reddish for the

groundwork. I also gave the area a light dry brush with various sandy tones. The edging surround was painted black, which finished it off nicely, and with the base complete the figure was then glued into place. For the weathering some oil colours were applied, which added some much-needed shadows to the creases in the clothing and the bandaging on the arms, legs, and head. I also applied a dark wash to the base. A final matt coat was applied over the entire figure and base to bring everything together and as a finishing touch I applied some dry pigments to add that extra level of dust and grime.

I can honestly say that one of the best things about having a 3D printer is the endless possibilities to create your own unique models. You can print these as big or as small as you wish and sometimes just maybe they will take you right back to your childhood memories.

MODEL IT

SIDE VIEW

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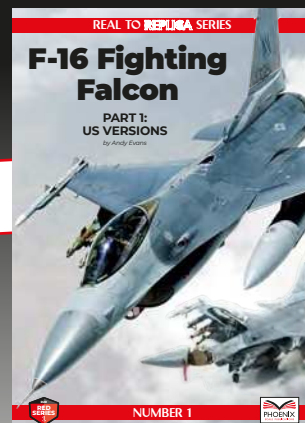
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SCI-FI

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Star Wars 1:65



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Jurassic Confrontation!

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and Decals



An Air-Ready Model Kit for
Experienced to Advanced Modelers.
Contains Small Parts. Not Recommended
for Children Under 14.



The Empire's Outland TIE Fighter

JEZZ COLEMAN BUILDS THE 1:65 REVELL STAR WARS KIT

**You have three,
yes three options
as to how the
wing panels can
be configured for
display**



REVELL

The Outland TIE fighter was a class of TIE Starfighters that were designed by the Galactic Empire. The 'Outland'

had the outward appearance of a craft seen in the early Star Wars movies, however, one standout feature on the Outland TIE Fighters were their folded wings when landing on a levelled surface, allowing for ease of access to the cockpit and creating a distinctive form not dissimilar to that of an X-Wing fighter. In addition, landing gear was concealed inside the bottom of the cockpit. This permitted easy access for the pilot without needing any specialised equipment or landing pad. The landing gear and configurable wings also allowed the pilot to land on uneven ground or in wilderness conditions.

On opening the box, don't be confused with the small number of parts in this kit, as trust me that where there might be a lack of parts, Revell has packed a lot of details into what you are given. The first area to tackle was the cockpit, which comprises of four sides, with walls and floor and a separate seat with controls. This was all painted using Tamiya Dark Grey, and some highlights were added with slightly lighter shades of the base colour on the side panels. The switches were all picked out using a fine detail paintbrush.

There were also a number of decals

Outland TIE Fighter

Manufacturer: Revell

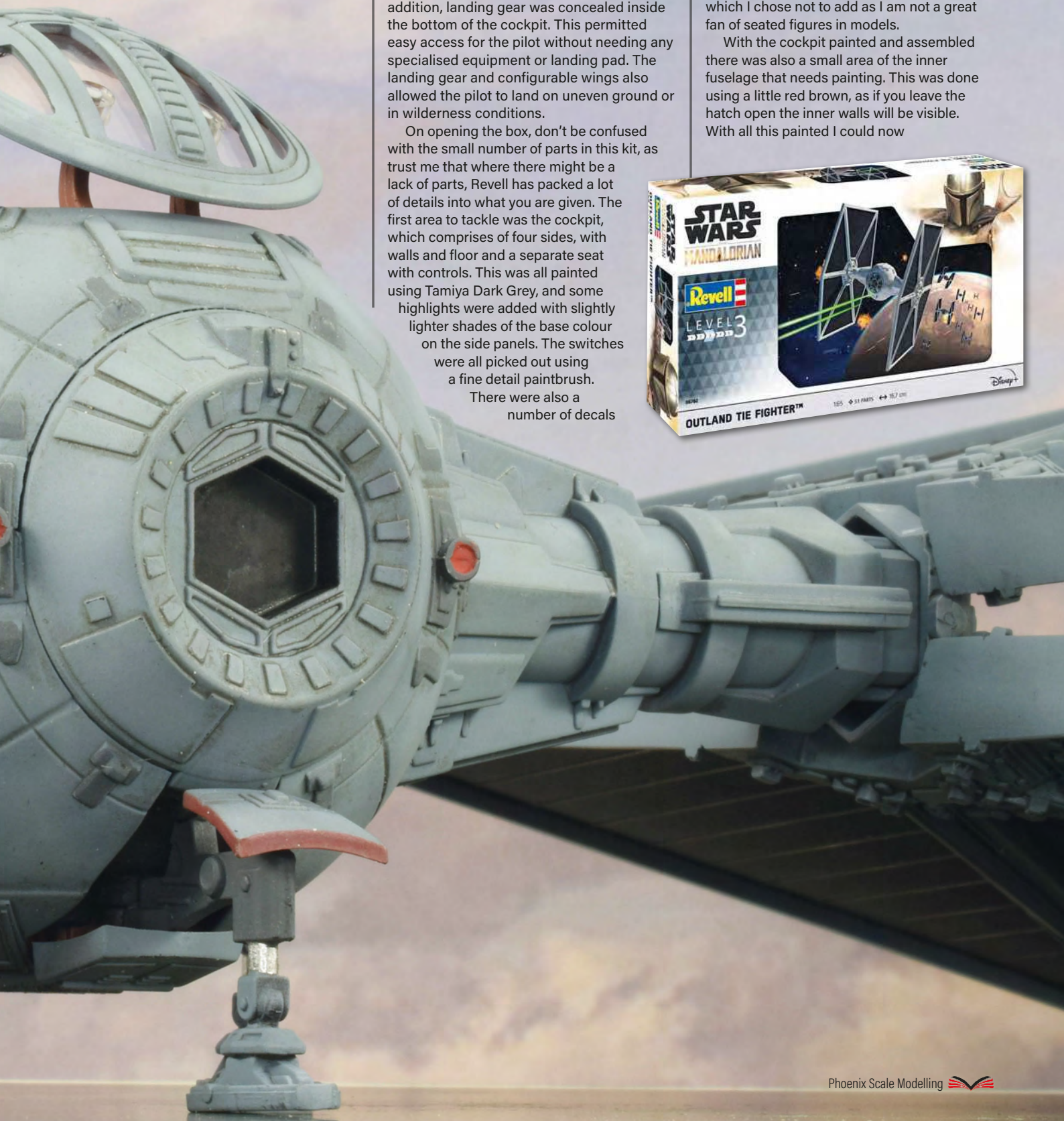
Scale: 1:65

Kit Type: plastic injection moulded

Kit Number: 06782

that needed applying, although, despite the glazing, a lot of the cockpit details would not be visible once the model was complete. However, this can be rectified if you leave the hatch open. Revell also supply a pilot figure, which I chose not to add as I am not a great fan of seated figures in models.

With the cockpit painted and assembled there was also a small area of the inner fuselage that needs painting. This was done using a little red brown, as if you leave the hatch open the inner walls will be visible. With all this painted I could now





attach the cockpit section and close up the fuselage halves, not forgetting to insert the front glazing and rear engine bulkhead first. Next was to assemble the four separate side panels/wings, and these comprised of two halves, one was the main panel itself and the other part was the inner framework surround. At this point you have three, yes three options as to how the panels can be configured for display. Perhaps the most common TIE Fighter poses show the panels fully open or partially folded, or my favourite pose fully folded with the undercarriage extended. A

quick note here for those of you, that like me can't decide which configuration to stick with, if you are very careful when assembling these parts, you can get away without gluing the different attachments in place, and you can alternate between all three options! The final part of the assembly was to attach the undercarriage legs, again these can be installed without glue, depending on your configuration options. As I mentioned before, with few parts in the kit construction was easy, but I spent most of my time masking and painting the model.

So, I masked off the front glazed areas first prior to adding some black primer over the entire model. I then set about the task of masking the wing panels, and let me tell you that was very tedious, but once painted up it was well worth all the effort! With everything masked up it was time to start to add some colour. Firstly, I applied a coat of Tamiya Ocean Grey, followed by several layers of the base colour, slightly lightened

with each pass. This was applied in a random fashion to add some tonal differences to the surface of the model. I then masked up some of the panels and around the frame of the cockpit glazing and then applied some dark grey to these various areas to add a little more visual interest.

Now it was the moment of truth to see if all those hours spent masking the wing panels had paid off, and I am happy to report it was worth the time and effort! With the paintwork almost completed all that was left to do was to paint the inner areas of the undercarriage bays with the same red brown I used on the inside of the cockpit walls. I then applied a pin-wash all over the model to pick out the details. A matt coat was then applied and with the final bits of masking tape removed from the cockpit glazing, and I could finally enjoy seeing this mean and menacing ship in all its glory.

MODELING



Dinner is Served

SNORRE SANDVIKEN CONSIDERS A JURASSIC CONFRONTATION!

TAMIYA

The Velociraptor was a mid-sized dinosaur with adults measuring up to 2.07m long, 0.5m high at

the hip, and weighing up to 45kg. The skull, which grew up to 25cm long, had jaws lined with 26–28 widely spaced teeth on each side, strongly serrated more on the back edge than on the front. Velociraptors had large hands with three strongly curved claws, which were similar in construction and flexibility to the wing bones of modern birds. The first digit of the foot, as in other theropods, was a small dewclaw. However, whereas most theropods had feet with three digits contacting the ground, Velociraptors walked on only their third and fourth digits. The second digit, for which Velociraptor is most famous, was highly modified and held retracted off the ground. It bore a relatively large, sickle-shaped claw, typical for that type of dinosaurs. This enlarged claw, which could grow to over 6.5cm long around its outer edge, was most likely a predatory device used to tear into or restrain struggling prey.

Well, that was a little on the Velociraptor. A dinosaur that has been made famous by 'Jurassic Park', where it in the early movies they were portrayed as bad guys, but in the later movies served as a somewhat unstable helper for the good guys. I bought a couple of sets of Tamiya Dinosaurs from a friend thinking it could be something to do for me and my youngest

Velociraptors

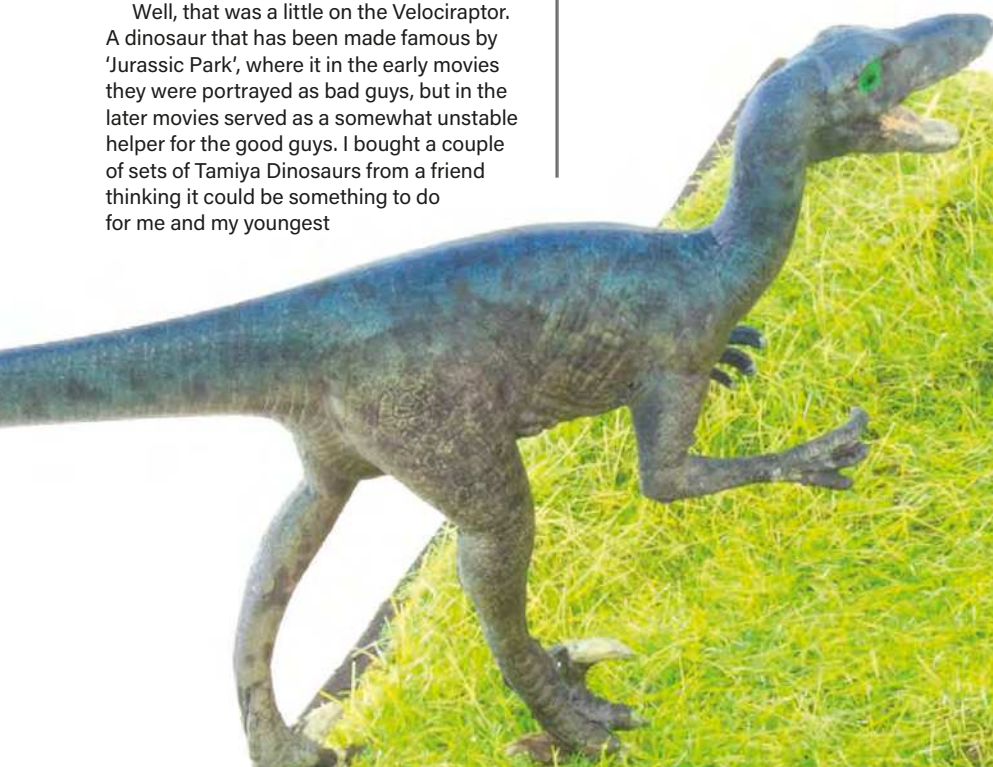
Manufacturer: Tamiya

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 35

daughter but like with many things they were forgotten until they were rediscovered in the far back corner of a cabinet. I thought about what I could use them for. As my daughter had lost some of her interest in modelling for now, I decided to have a look and see what I could use them for. Having seen the Jurassic Park movies a few too many times, an idea quickly formed in my brain. I realised I would have to locate a suiting target for my raptors and having had the opportunity to acquire a 3D printer a couple a months ago, I just needed to download a file and print it. Those resin 3D printers are a formidable ally, especially if you need extra stuff like that in somewhat of a hurry! I mean it may take a few hours to print, but you can just print one instead of buying a box of four or six figures and the results are amazing.



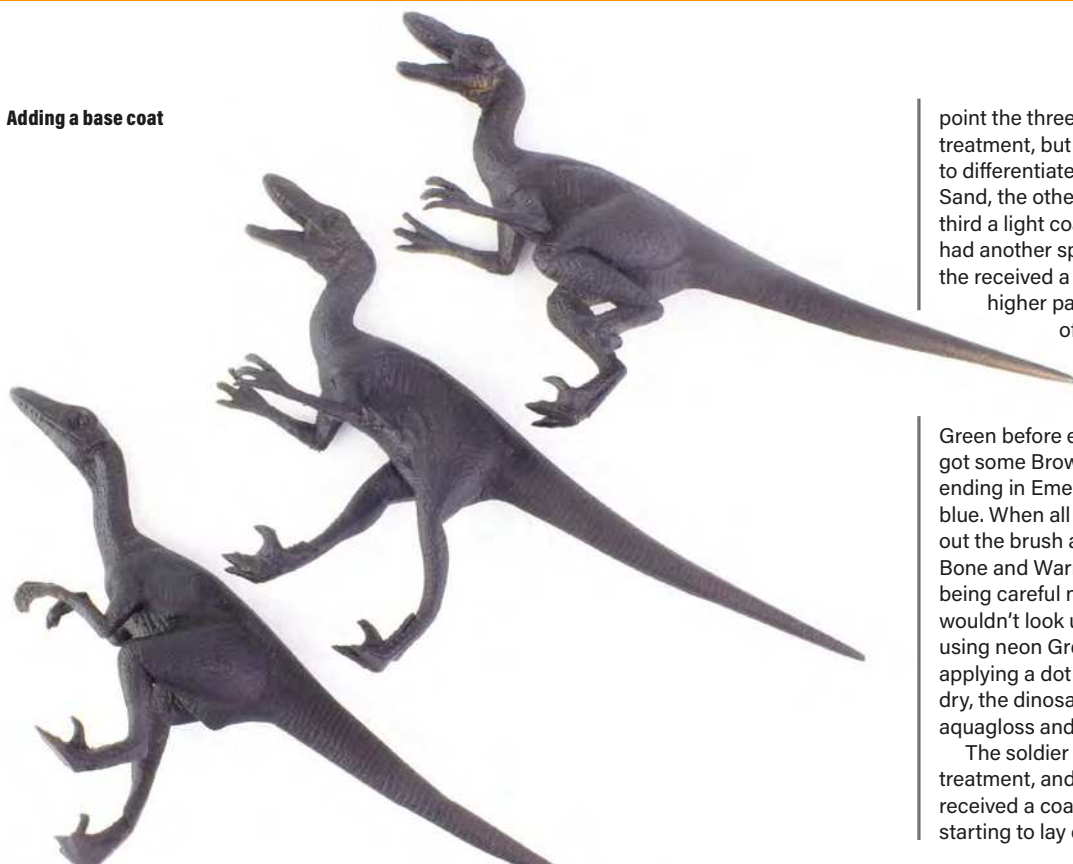
The figure was 3D printed

Getting the Raptors ready

I picked the three dinosaurs that looked most aggressive from a Tamiya set

I picked the three dinosaurs that looked most aggressive. After all the one thing we have learned for the movies is that hunt in packs of three! They consisted of a body and head with separate legs and arms, and each set of arms and legs are made for one body-type, but I quickly realised that even if they belong together, the fit on these parts were not the best, so swapping them around wasn't a big problem. That said, the heads and bodies are pretty good, with plenty of details on both the face, skin, and the rest of the body. Having glued them together there were gaps, so a generous amount of filler was needed. With both the soldier printed and the dinosaurs assembled it was time to break out the paint, and all were primed using Alclad Black Primer and Microfiller.

I started on the dinosaurs first, as these seemed to me to be the most fun to paint. I first used some Uschi Van der Rosten Splatter Stencils and white paint to get a mottled uneven primer coat. Next up, I sprayed some thinned Ammo by Mig Bone. It didn't cover the mottling or even all the black, but that was all calculated. Next up I brought out the Splatter Stencils again, but this time I sprayed on some thinned Ammo by Mig Rubber and Tyres. Next came some Alclad Mil Spec German Insignia Yellow, before yet again applying more Rubber and Tyres through the stencils. Up to this

Adding a base coat

point the three dinosaurs had the same treatment, but from here on out they started to differentiate. One received a coat of Burnt Sand, the other a coat of thinned brown, the third a light coat of lime green, before they all had another splatter-coat. The brown Raptor the received a coat of Emerald Green on the higher parts of the back, before finishing off in Electric Blue. The one in Burnt Sand had a coat of Spectra Tex Sun Yellow added, then some Bottle

Green before ending in Carbon. The last one got some Brown, before a coat of Sepia, and ending in Emerald green mixed with Electric blue. When all those layers had dried, I broke out the brush and painted their nails using Bone and Warm Skin inside their mouths, being careful not to apply too much so that it wouldn't look uniform. The eyes were painted using neon Green Spectra Tex colour before applying a dot of black in the centre. When dry, the dinosaurs were treated to a coat of aquagloss and left to dry.

The soldier didn't get the splatter treatment, and after the primer coat, he received a coat of NATO Green before starting to lay down the camouflage colour,

**I used a spatter stencil to a better effect****I added more detail using my airbrush****I used various shades.....****...on all three Raptors**



The finished soldier - or 'dinner'

Black, NATO Green, and NATO Brown unevenly in blotches here and there using a brush. The weapons were painted Night Black.

The side arm holster and all the straps were painted Israeli Sand Grey, and all the buckles and the boots had a coat of Rubber and Tyres. The face was painted Warm Skin Tone with a splash of Red Leather for hair. When all the paint was dry, he too got a coat of Aquagloss and was set aside to dry. The dinosaurs were treated to a wash, using Starship Filth to bring out all the skinfolds and scales, while the soldier had a Pacific Dust wash all over. When the washes were dry, any excess was wiped off and some matt varnish was applied. The figures were now ready, and all that was left was the base.

A base like this was quite an endeavour. Firstly, a piece

of wood was cut to size, then it was spray painted using clear lacquer from a rattle can. Next up was masking the edges, before mixing sand, brown primer, plaster, PVA and water together, then this was laid on and smoothed out. When dry I brushed on a mix of PVA and water before adding some grass using a static applicator. With the grass applied, the next step was to add some brush and a rock. The brush was premade like the static grass. The rock was just a pebble picked in the garden. I just glued them down with superglue, before adding the figures and gluing them too. As a finishing touch I added a drop of Aqua Gloss to the dinosaurs' eyes to make them sparkle in the light. So, what can I say about this build? It was simple, easy, and effective! And as an added bonus when I turn off the lights and shine a UV flashlight around the room, six eerie green eyes look at me from a shelf in my model cabinet! [Modeling](#)



SIDE VIEW



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RIM24001 - 1:24 Sputnik

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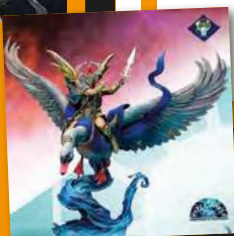

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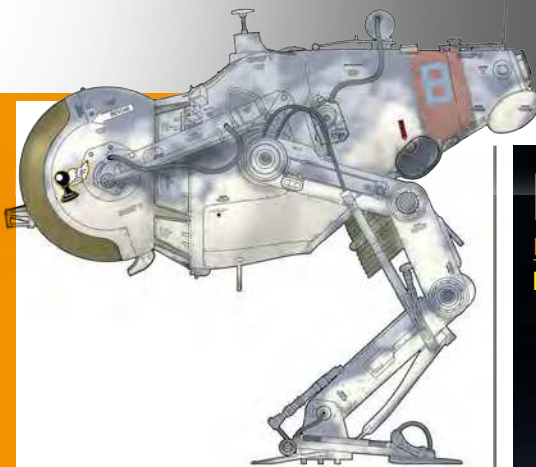

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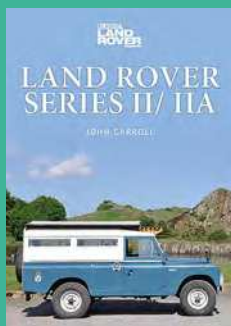

BOOKS

ESSENTIAL READING AND REFERENCES

Land Rover Series II/IIA

AUTHOR: JOHN CARROLL
PUBLISHER: PEN & SWORD
PRICE: £15.99

After ten years of production, the Solihull-manufactured Land Rover was established as a useful 4x4, popular with farmers, armies and those whose employment took them far from the beaten track. Following a redesign, the Series II Land Rover was launched in April 1958. It was available in two wheelbases, with a choice of diesel or petrol engines and a variety of body styles including pick-ups and soft-tops and, aimed more at travel and people-carrying rather than agricultural work, short and long wheelbase Station Wagons.



The main difference that identified the new Land Rovers at a glance was the radius pressed into the aluminium bodywork below the galvanised waist rail. This changed the Land Rover's appearance considerably and was a shape that endured until 2016 in the Land Rover Defender. The Series IIA was introduced in 1961 and through a production run that last until 1971, a succession of upgrades, mainly detail and cosmetic changes, followed. All models of Land Rover were based on a steel, box-section chassis with a pressed steel bulkhead and largely interchangeable aluminium body panels. Differences between long and short wheelbase variants were minimal and generally restricted to different size wheels and tyres, different specification springs reflecting different payloads and a heavier duty rear axle in the LWB models.

www.pen-and-sword.co.uk



Frostgrave - Fireheart

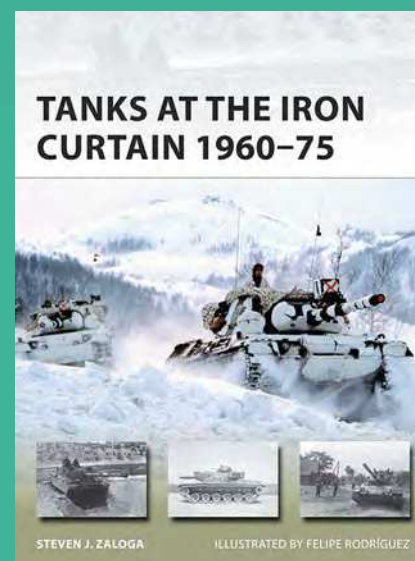
AUTHOR: JOSEPH A MCCOLLOUGH
PUBLISHER: OSPREY
PRICE: £20.00

In the glory days of Ancient Felstad, artisans competed to produce the most beautiful, the most functional, and the most enduring constructs. These living works of art could be seen everywhere in the city, fulfilling many of the day-to-day tasks that kept the magical metropolis running. They provided transportation and security, worked on construction and cleaning, exterminated vermin, butchered animals, and tended furnaces. Then came the cataclysm. The ice and snow not only buried and destroyed most of the constructs active in the city, but nearly wiped out the knowledge of their creation. Certainly, the constructs animated by the explorers of the Frozen City are crude in both form and function compared to what once existed. This supplement for Frostgrave: Fantasy Wargames in the Frozen City provides a study of constructs, offering expanded rules for their creation, modification, and even re-animation. It examines enchanter's workshops, detailing new magic items and base modifications that aid in the animation process, and includes a bestiary full of new constructs. Of course, much of the knowledge that was once lost still exists in the frozen ruins, so the book also features several scenarios set in the once-great factories where the art of construct creation reached its pinnacle.

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Tanks at the Iron Curtain 1960-75



AUTHOR: STEVEN J ZALOGA
PUBLISHER: OSPREY
PRICE: £20.00

A new analysis of the technology and tanks that faced off against each other on opposite sides of the Iron Curtain, during the very height of the Cold War. From the 1960s onwards, there was a generational shift in tank design and warfare with the advent of CBR (chemical, biological, radiological) protection and a move away from HEAT ammunition to APFSDS. This shift confronted the growing threat of guided anti-tank missiles and saw the introduction of composite armour. Soviet heavy tanks and tank destroyer/assault guns became obsolete, giving way to the technological might of the T-62 and T-64, while NATO forces employed the Chieftain, AMX-30, Leopard I, and M60, plus the initial attempt at a common US-German tank, the MBT-70. Using detailed illustrations and contemporary photographs, this companion volume to NVG 301, Tanks at the Iron Curtain 1960-75 focuses on key battle tanks and their technology to give a comprehensive overall picture of how tanks developed during modern times.

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101 Facts You Didn't Know About Space

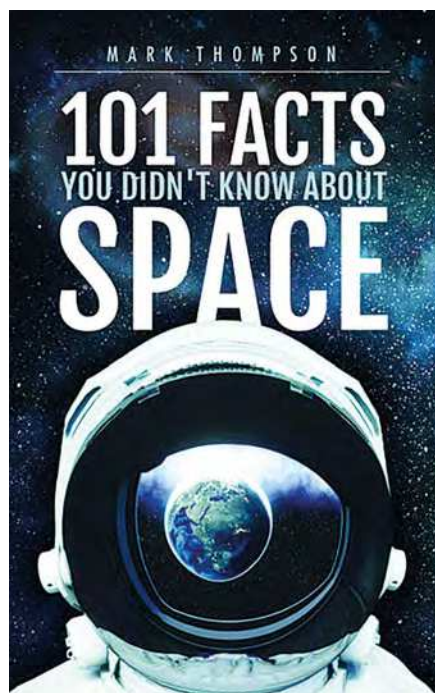
AUTHOR: MARK THOMPSON

PUBLISHER: PEN & SWORD

PRICE: £16.99

Did you know a compost heap generates as much energy as the Sun? Or that dung beetles use the Milky Way to navigate? Maybe you have not been into space but if you have then you will know that astronauts have feet as soft as babies! 101 Facts You Didn't Know About Space takes you on a wild journey around the Universe bringing you facts galore. Whether you are a space enthusiast or a newcomer you will find plenty of facts in here to keep you amused and entertained.

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Transport Curiosities 1850-1950

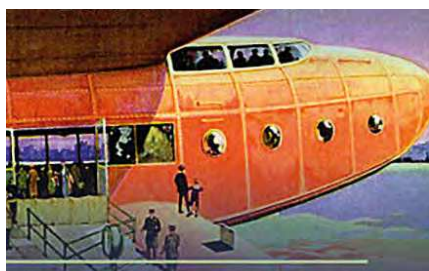
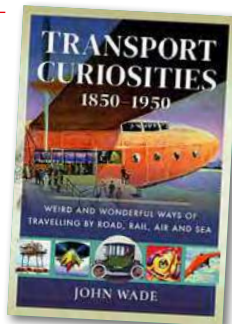
AUTHOR: JOHN WADE

PUBLISHER: PEN & SWORD

PRICE: £20.00

Over the years many weird and wonderful types of transport have come and gone, some of which succeeded against all odds, others that spectacularly failed, and some that never got beyond a designer's drawing board. Railway engines driven by horses, for example. Or maybe the surprising number of cars, boats and trains driven by aeroplane propellers. In this book you will find cars that flew, cars that floated on water and boats that ran on roads; steam-powered aeroplanes, electric submarines, railways driven by pneumatic air, aircraft with flapping wings... and a whole lot more. If you are a person who would like to have flown in an airship or travelled in a train whose carriage sat on stilts above the sea with its tracks below the water or dreamed of riding on a London to New York railway that took twelve days to travel the long way around the world, or maybe just fancied fixing your bicycle to a railway track, then this book is for you.

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Tank Craft 34: Panther Medium Tank

AUTHOR: DENNIS OLIVER

PUBLISHER: PEN & SWORD

PRICE: £16.99

In July 1943 the German army launched what was to be its last major offensive on Soviet soil. Codenamed Operation 'Citadel,' the attack had initially been scheduled to commence in May but was postponed by Hitler on a number of occasions to allow the divisions in the East to be reinforced and to ensure that the new Panther tanks could be deployed. In the fifth book on the Panther in this series Dennis Oliver examines the first vehicles that left the assembly plants to go into service against the Red Army as part of Operation 'Citadel' and the units that arrived in the late summer and early autumn of 1943. In addition to archive photographs and painstakingly researched, exquisitely presented colour illustrations, a large part of this book showcases available model kits and aftermarket products, complemented by a gallery of beautifully constructed and painted models in various scales. Technical details as well as modifications introduced during production and in the field are also examined, providing everything the modeller needs to recreate an accurate representation of the Panther tanks that fought in the East in 1943.

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Bf 109D/E 1939-40



AUTHOR: MALCOLM V. LOWE
PUBLISHER: OSPREY
PRICE: £13.99

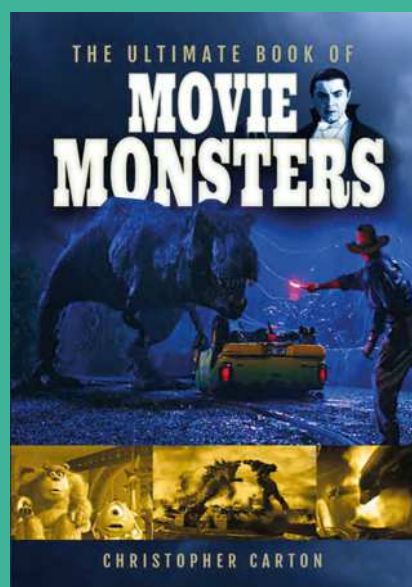
Using first-hand accounts and brand-new artwork, this book brings to life the realities of flying the Bf 109 in combat during the very first battles of World War II. The Bf 109 was one of the principal fighter aircraft types in the Luftwaffe's inventory during the opening months of World War II and it was central to many of Germany's early victories, before coming up against the unbeatable RAF during the Battle of Britain. This book presents first-hand experiences of the pilots who flew the Bf 109E, the aircraft which first featured a Daimler-Benz DB 601 powerplant, and which was in the front line in the skies over Poland, the Low Countries and France, and the older Bf 109D, still in use in the Polish campaign.

In a rigorous and engaging new analysis, the author examines and assesses the Bf 109 as a fighting machine from the perspective of the Luftwaffe at the forefront of the German blitzkrieg. Contemporary photographs and specially commissioned artwork, including a dramatic battle scene, armament views, technical diagrams and ribbon diagrams illustrating step-by-step each battle tactic of the main dogfights explored in the book, bring the experiences of the Bf 109 pilots vividly to life.

www.ospreypublishing.com



The Ultimate Book of Movie Monsters



AUTHOR: CHRISTOPHER CARTON
PUBLISHER: PEN & SWORD
PRICE: £25.00

Do you believe in monsters? We dare you to take a look inside this cursed tome containing some of the most iconic and obscure monsters from the history of cinema. Cower in fear of Count Dracula and his dreaded children of the night. Abandon hope as the mightiest kaiju ever seen on film decimate all around them. Pray that silhouette at the end of your bed is just a shadow and not the dreaded Babadook. Spanning nearly a century of cinematic terrors, The Ultimate Book of Movie Monsters showcases creatures from genres such as horror, fantasy, B-movies and even musicals. Along with legendary beasts like Frankenstein's monster, Godzilla, the Living Dead and the (mostly) friendly creatures of Monsters Inc., you'll find film facts, creature strengths and weaknesses and over 150 full-colour pictures of the monsters themselves. From the era of stop-motion beasts to the cinematic showdown of the century in Godzilla vs. Kong, film lovers and horror aficionados will find plenty to keep their lust for terror satiated. But beware, for the beasts that dwell within these forsaken pages may just keep you up all night. You have been warned...

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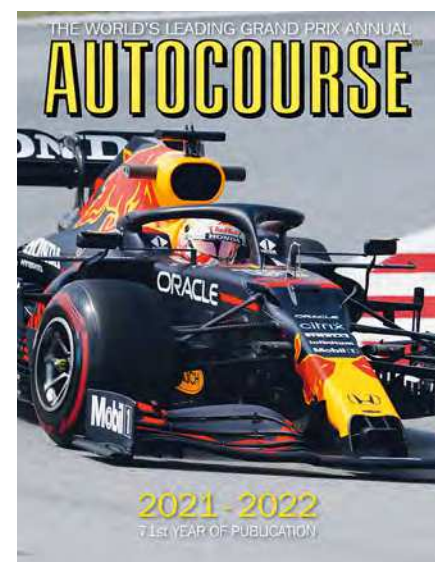


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AUTHORS: HAMILTON/HUGHES/KIRBY
PUBLISHER: ICON
PRICE: £50.00

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www.iconpublishing.com



Stringbag - The Fairey Swordfish at War

AUTHOR: DAVID WRAGG
PUBLISHER: PEN & SWORD
PRICE: £15.99

This is a narrative account of the operations of the Fairey Swordfish throughout World War Two. The most famous of these was the attack on the Italian fleet at Taranto, crippling three battleships and damaging several other ships as well as the seaplane base and an oil storage depot. The Swordfish played a prominent part in the Battle of Matapan and in the sinking of the Bismarck. Less happily, Swordfish were used in the unsuccessful and ill-prepared raid on the Germans at Petsamo and in the abortive attack on the battle cruisers Scharnhorst and Gneisenau during the Channel Dash in 1942.

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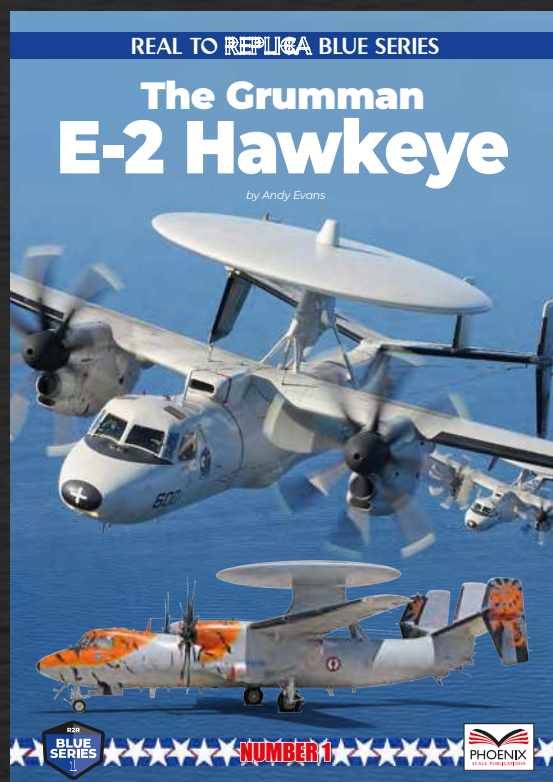
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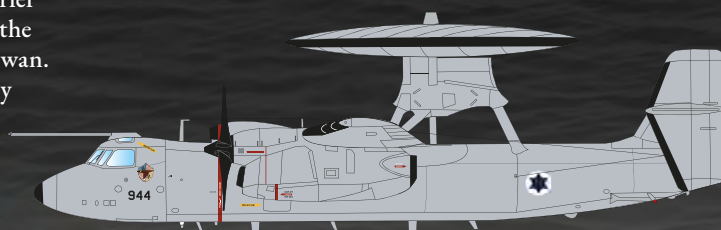
The Grumman E-2 Hawkeye

by Andy Evans

The Grumman E-2 Hawkeye was designed and developed during the late 1950s and early 1960s for the US Navy as a replacement for the earlier, piston-engine E-1 Tracer, which was rapidly becoming obsolete. The E-2 was the first aircraft designed specifically for its role, as opposed to a modification of an existing airframe. The E-2A Hawkeye entered US Navy service in January 1964 and in April 1964 with VAW-11 at NAS North Island. The first deployment was aboard the aircraft carrier USS Kitty Hawk during 1965. Since entering combat during the Vietnam War, the E-2 has served the US Navy around the world, acting as the electronic 'eyes of the fleet'. In August 1981, a Hawkeye from VAW-124 Bear Aces directed two F-14 Tomcats from VF-41 Black Aces in an intercept mission in the Gulf of Sidra that resulted in the downing of two Libyan Sukhoi Su-22s. Hawkeyes from VAW-123 aboard the aircraft carrier USS America directed a group of F-14 Tomcat fighters flying the Combat Air Patrol during Operation El Dorado Canyon, the joint strike of two Carrier Battle Groups in the Mediterranean Sea against Libyan targets during 1986. More recently, E-2Cs provided the command and control for both aerial warfare and land-attack missions during the Gulf War. Navy E-2Cs have been upgraded with eight-bladed propellers as part of the Hawkeye 2000 program, and the first squadron to cruise with the new propellers was VAW-124 'Bear Aces'. The Hawkeye 2000 version can track over 2,000 targets simultaneously while also detecting 20,000 targets to a range greater than 400 miles and simultaneously guide 40-100 air-to-air intercepts or air-to-surface engagements. In 2014, several E-2C Hawkeyes from the 'Bear Aces' were deployed from USS George HW Bush as flying command posts and air traffic controllers over Iraq during Operation 'Inherent Resolve' against the Islamic State. During Operation 'Enduring Freedom' and Operation 'Iraqi Freedom' all ten Regular Navy Hawkeye squadrons flew overland sorties, providing battle management, close-air-support coordination, and combat search and rescue duties. VAW-120, the E-2C fleet replacement squadron began receiving E-2D Advanced Hawkeyes for training use in July 2010, and on 27 March 2014, the first E-2Ds were delivered to VAW-125. The E-2D will play a larger role than that of the E-2C, with five E-2Ds aboard each carrier instead of four C-models. In smaller numbers of E-2s have been sold to the armed forces of Egypt, France, Israel, Japan, Mexico, Singapore and Taiwan. This 100-page full colour 'Blue Series' book looks in detail at the history and employment of the Hawkeye, with photographic references, walk arounds, and as the 'Real to Replica' title suggests there is a section on how to model the E-2 using Kinetic kits, making this book and ideal resource for both the enthusiast and scale modeller alike.



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COMING SOON

FOR THE NEXT ISSUE OF PHOENIX SCALE MODELLING, HERE'S JUST A LITTLE TASTER OF WHAT WE HAVE PLANNED!

Lotus 33

Mark Thomson builds Jim Clarks 1965 Formula 1 winner

Wrecker!

Eifion Davies builds the 1:25 Revell '77 GMC Truck

Micro-Bus

Jezz Coleman builds the 1:25 Revell VW T2

Mr Freeze and Nightmare Batman

Ivan Gilbert goes large with a pair of 1:16 3D printed figures

Spinosaurus

Scott Taylor of The Scale Modellers Supply gets Jurassic painting and detailing a dinosaur

Colonial Viper

Eifion Davies takes a look at a Battlestar Galactic build

Paper Panzer

Grant Dalzell builds the 1:35 1/35 Amusing Hobby VK7201(K) Panzerkampfwagen VII

Going the Whole Hog

Manuel Magrinho builds the 1:48 Tamiya A-10

PLUS

Extra content is available in our digital issues. So be sure to order your copy now at:- www.phoenixscalepublications.co.uk



PLACES TO BE IN 2022

Welcome to our listing of shows large and small from around the world. This month we have a number of new additions to the diary as clubs both large and small start having the confidence that the worst is over and we can get back to seeing each other around the country. If you want your model show to appear here or you would like Phoenix to attend your event and feature it in the digital editions of our magazines, please contact david@phoenixscalepublishing.co.uk at least three months before the show.

Sunday 4th June

Salisbury Model Show

Wyvern St Edmunds Sports Hall, Church Road, Laverstock, Salisbury SP1 1RE

Sunday 5th June

The Northern Model Show

Parks Sport Centre, Howdon Road, North Shields NE29 6TL

Sunday 12th June

Elstree Model Show

The Allum Hall and Manor House, 2 Allum Lane, Elstree, Borehamwood WD6 3PJ

Sunday 19th June

IPMS Coventry and Warwickshire Summer Show

Midland Air Museum, Rowley Road, Coventry CV3 4FR

Saturday 25th June

Plymouth Scale Model Show

Plymouth Guildhall, Guildhall Square, Plymouth PL1 2AA

Sunday 26th June

West Anglia Scale Model Show

Littleport Leisure Centre, Camel Road, Littleport, ELY CB6 1EW

PHOENIX ATTENDING

Friday to Sunday 1st to 3rd July

World Model Expo 2022

NH Eindhoven Conference Centre, "Koningshof", Locht117, 5504 RMM Veldhoven, The Netherlands

Saturday 2nd July

Scale Model Show IPMS & MAFVA East Sussex

Eastbourne Sport Park, Cross Levels Way, Eastbourne BN21 2UF

PHOENIX ATTENDING

Sunday July 10th

The Romsey Scale Model Show

Crosfield Hall, Broadwater Road, Romsey SO51 8GL

Sunday July 10th

IPMS North Somerset Model Society Show

The Helicopter Museum, Locking Moor Road, Weston Super Mare BS23 8PP

Wednesday 20th July to Saturday 23rd July 2022

UNITED STATES IPMS NATIONALS

La Vista Conference Centre, Omaha, Nebraska, USA

PHOENIX ATTENDING

Saturday 30th July

IPMS Dundee Show

The Boomerang Centre, 10 Kemback Street, Dundee DD4 6ET

Sunday July 31st

The Essex Model Show EMS

Hannakins Farm Community Centre, Rosebay Avenue, Billericay, Essex

Sunday 7th August

Scale Model Show Tangmere

Military Aviation Museum, Chichester PO20 2ES

Saturday 27th August

Aberdeen Modellers Society Scale Model Show

Thainstone Centre, Near Inverurie AB51 5XZ

Saturday 10th to Sunday 11th October

Rail & ALE

Statfold Narrow Gauge Museum, Ashby Road, Tamworth, Staffordshire B79 0BU

Sunday 23rd October

Falkland 40 show by IPMS Portsmouth

Royal Maritime Club Hotel, Queen Street, Portsmouth PO1 3HS

PHOENIX ATTENDING

Saturday 12th to Sunday 13th November

Scale Model World 2022

The International Centre, Telford, Shropshire TF3 4JH

PHOENIX ATTENDING

Historex Agents

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Punch and Die Set

Small circle
0.5 - 2mm with 0.1 steps



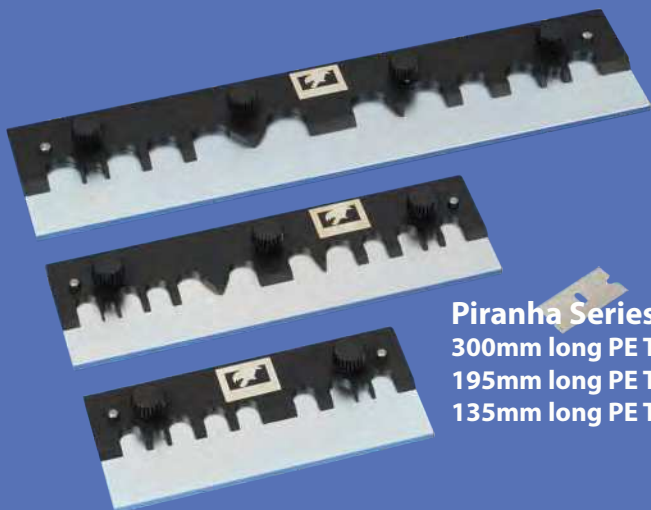
Hexagonal Punch and Die Set

0.7 - 2mm



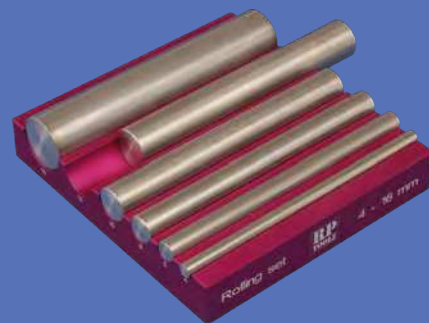
Piranha Series Premium

300mm long PE Tool -
195mm long PE Tool -
135mm long PE Tool -



ROLLING SET

D: 4,6,8,10,12,16mm
Width 80mm



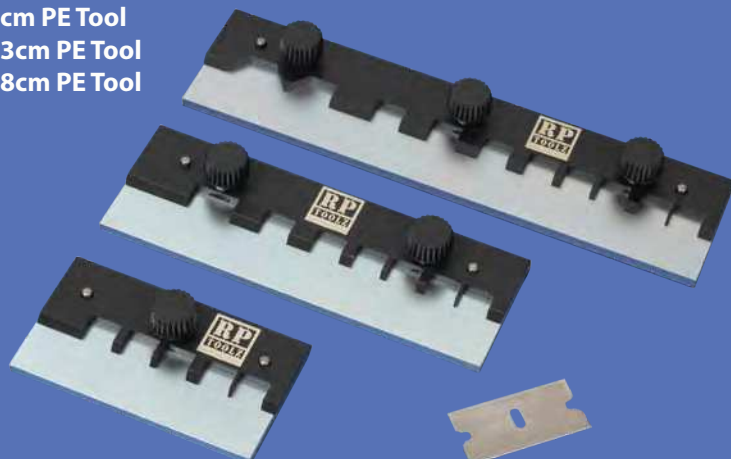
HANDLE BENDING TOOL

Length 150mm
width 1 to 50mm



PHOTO ECHTED BENDING TOOL

8cm PE Tool
13cm PE Tool
18cm PE Tool



RIVETS MAKER Set

with Conical end punch tools
0.6 - 2mm



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Parts 180+

Decals designed by

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Decals

Decals printed by

cartograf

Photo Etched part is included



The Cheetah D was the sole two-seater variant, and was predominantly used as a trainer for pilots converting to the Cheetah C. It also had a secondary attack capability, including the ability to deliver PGMs.

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- Fuel tank
- PYTHON-3

MODEL FEATURES

- Positional flaps
- Highly detailed cockpit
- Full intake
- Open/close main wing airbrake



2nd. Squadron - Makhado AFB / South Africa - 2007



Test Flights and Development Centre - Overberg AFB / South Africa - 1993



2nd. Squadron - Petersburg AFB / South Africa - 2007



Escuadrón de Combate 2112 - Taura AFB / Ecuador - 2009



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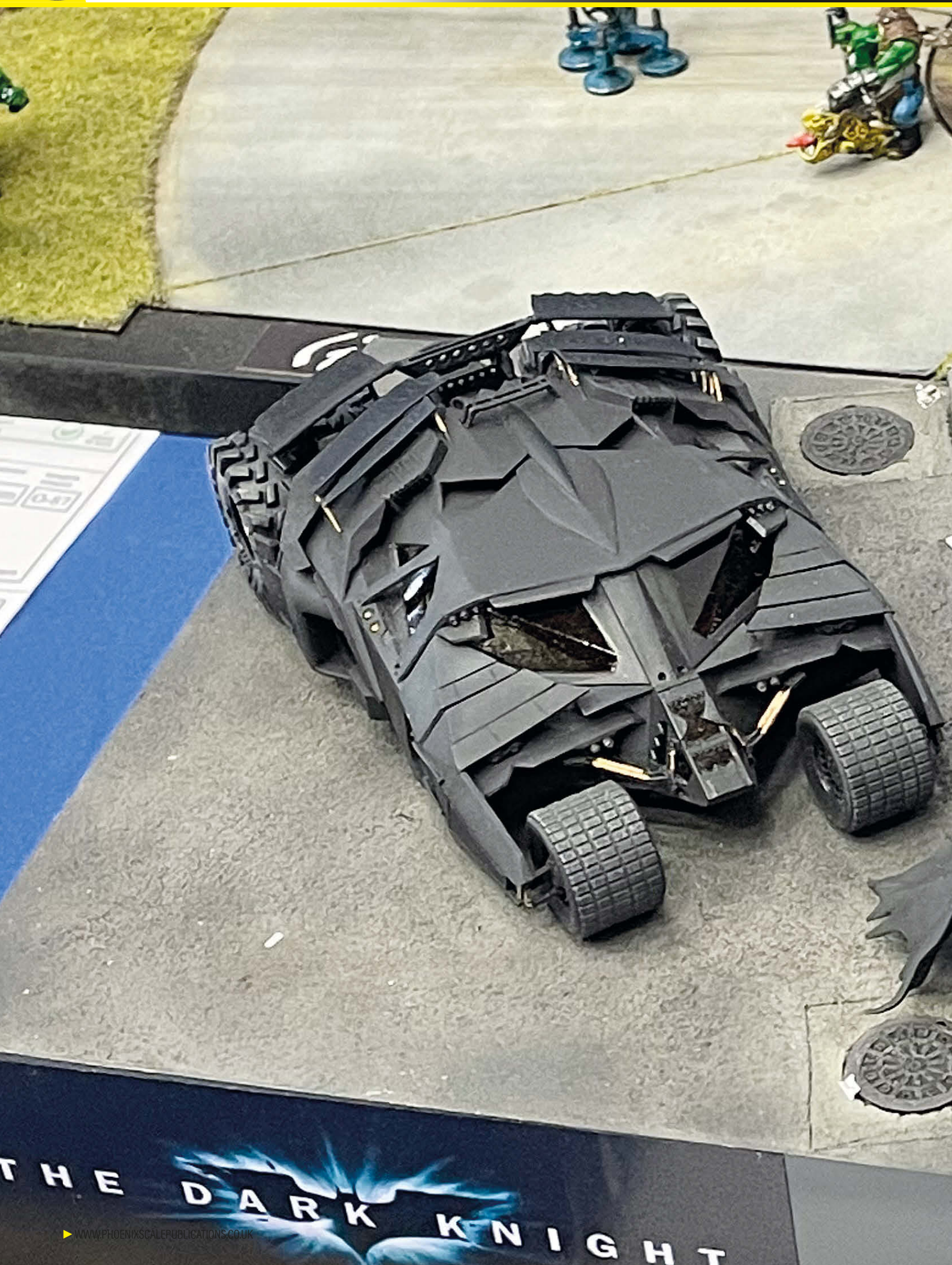
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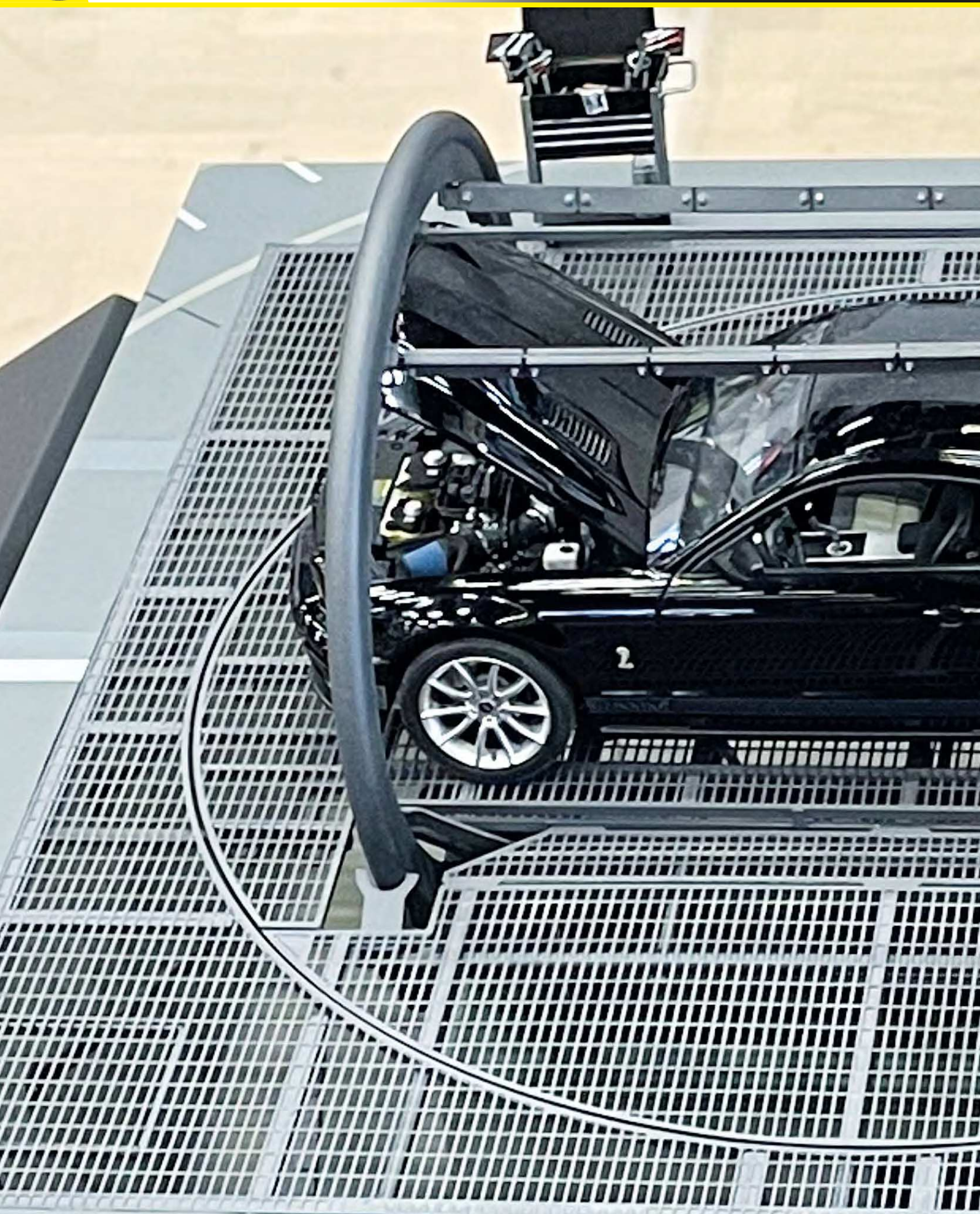


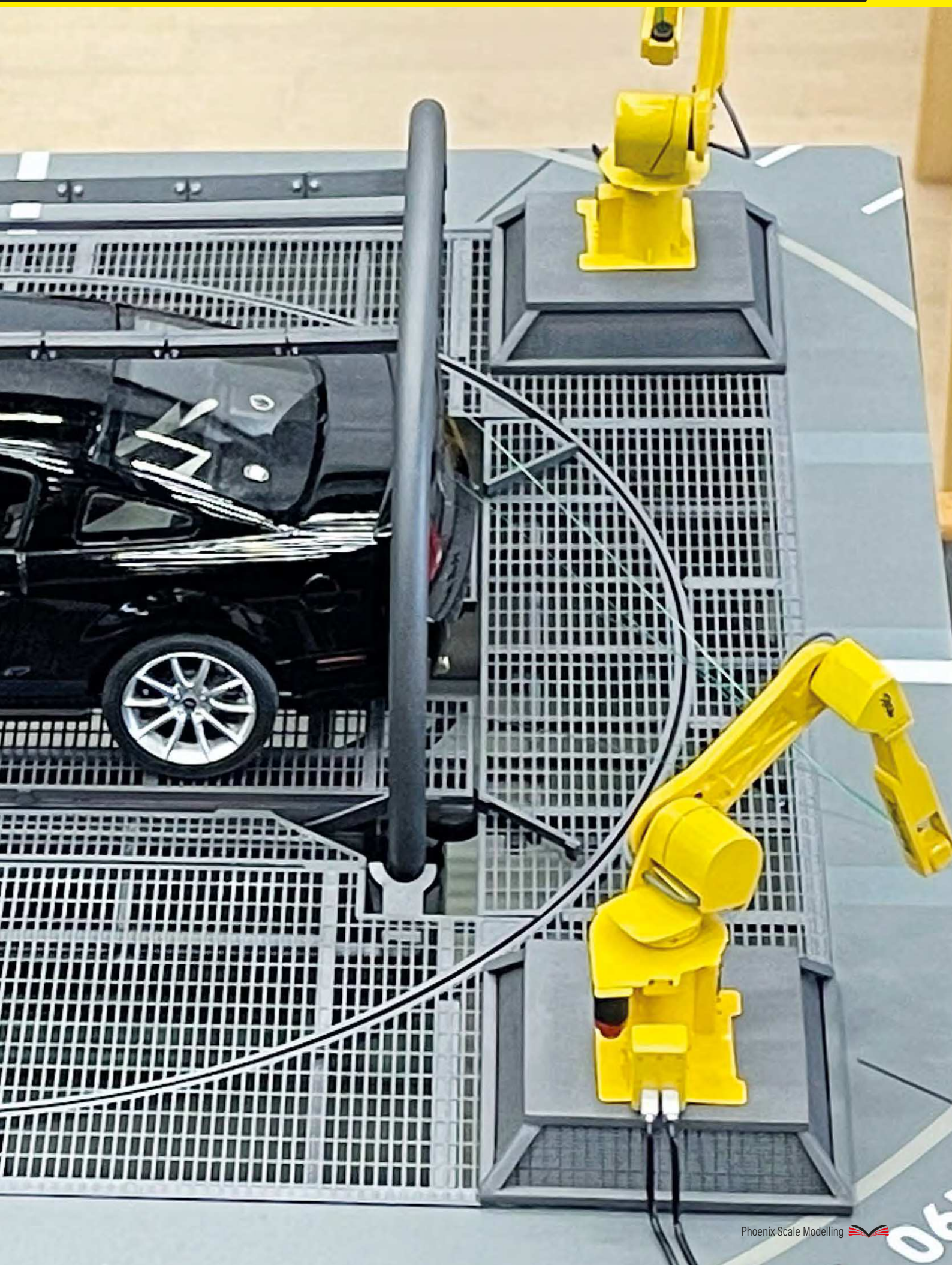


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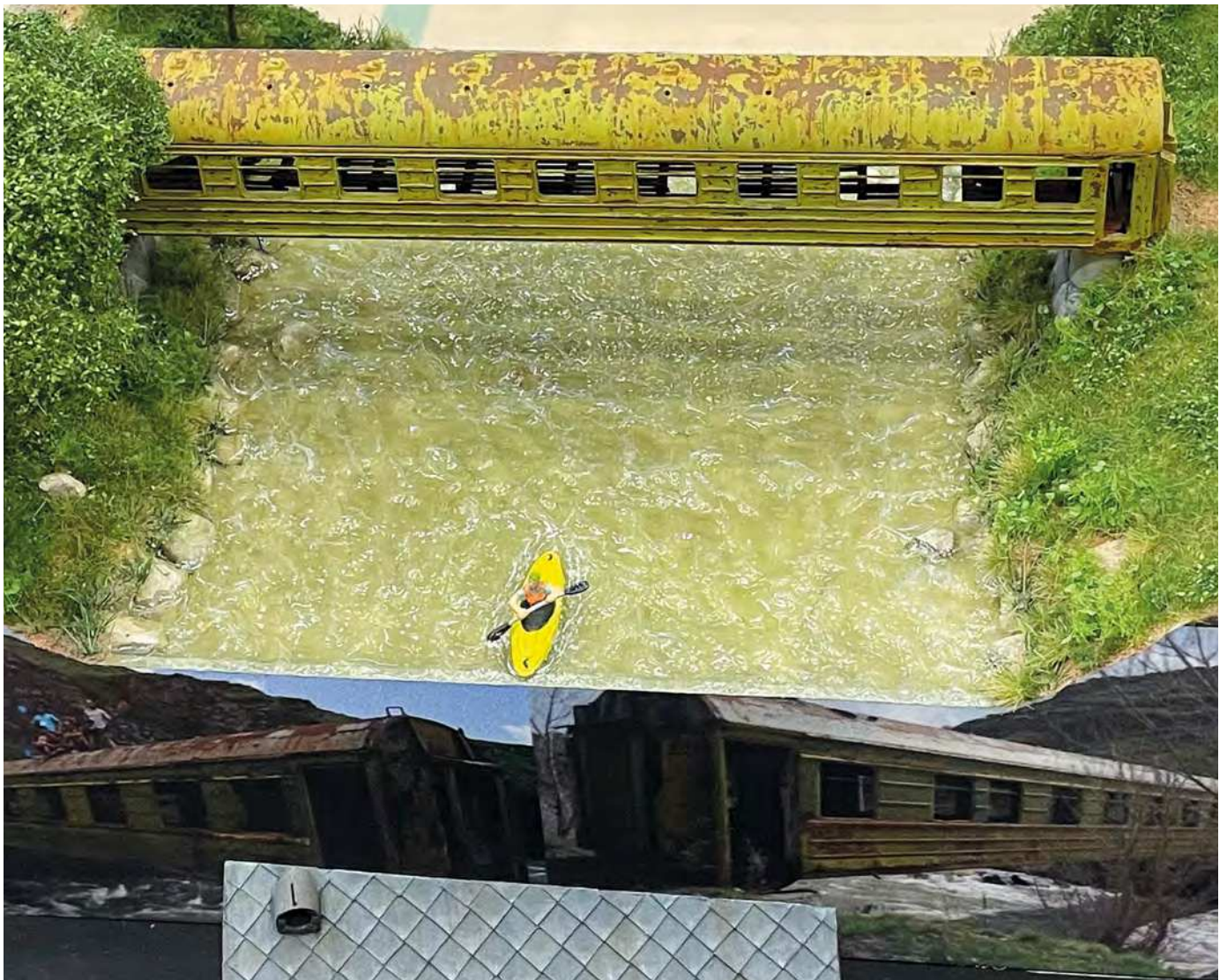
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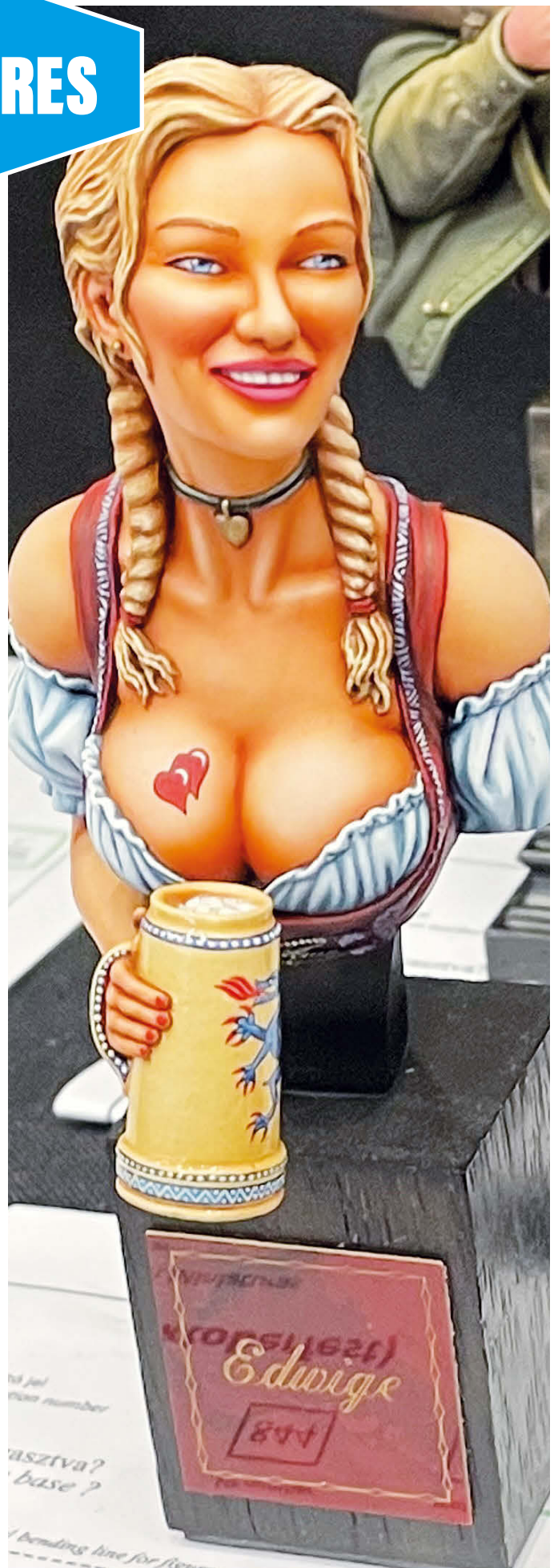


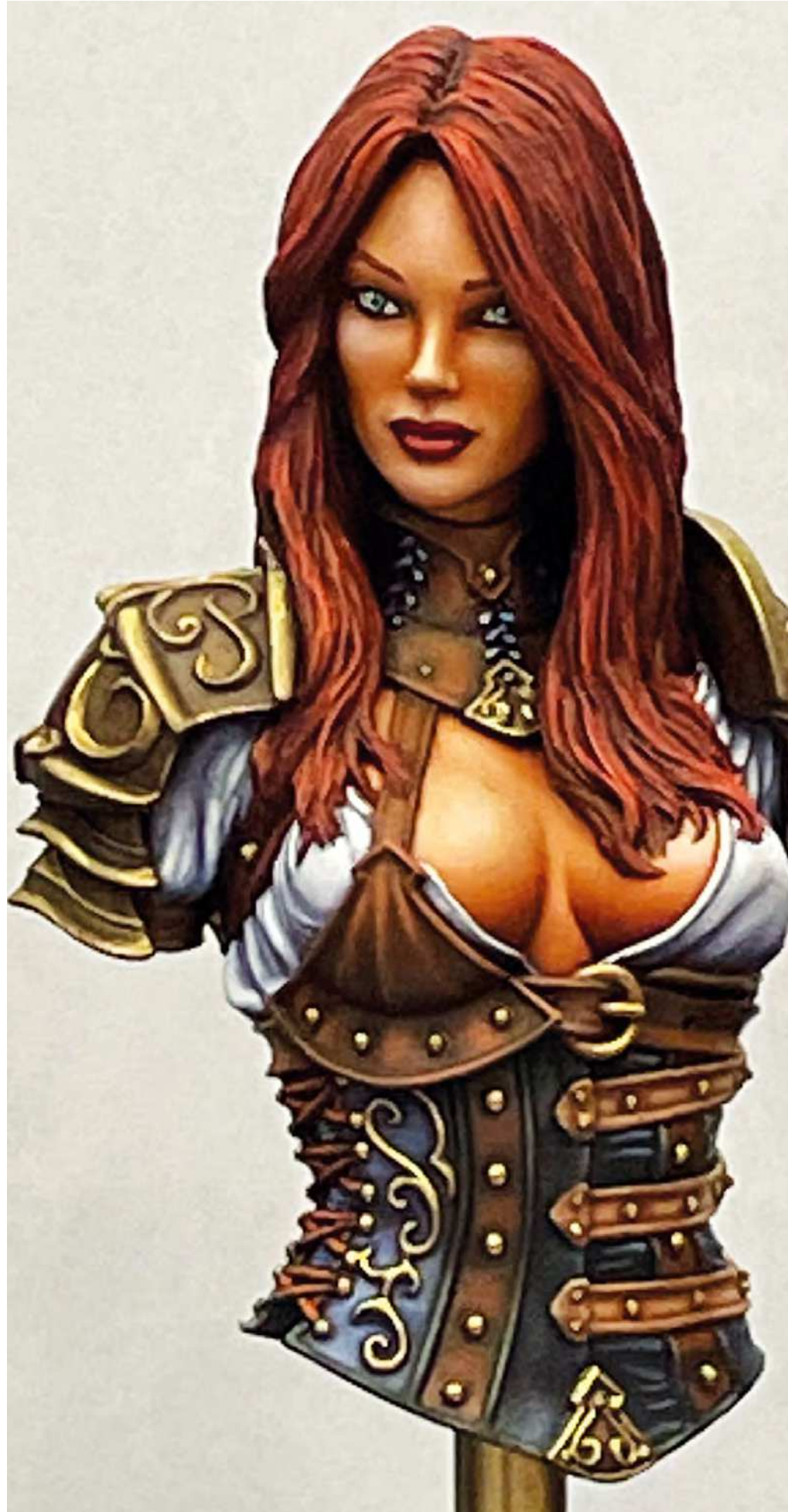






FIGURES









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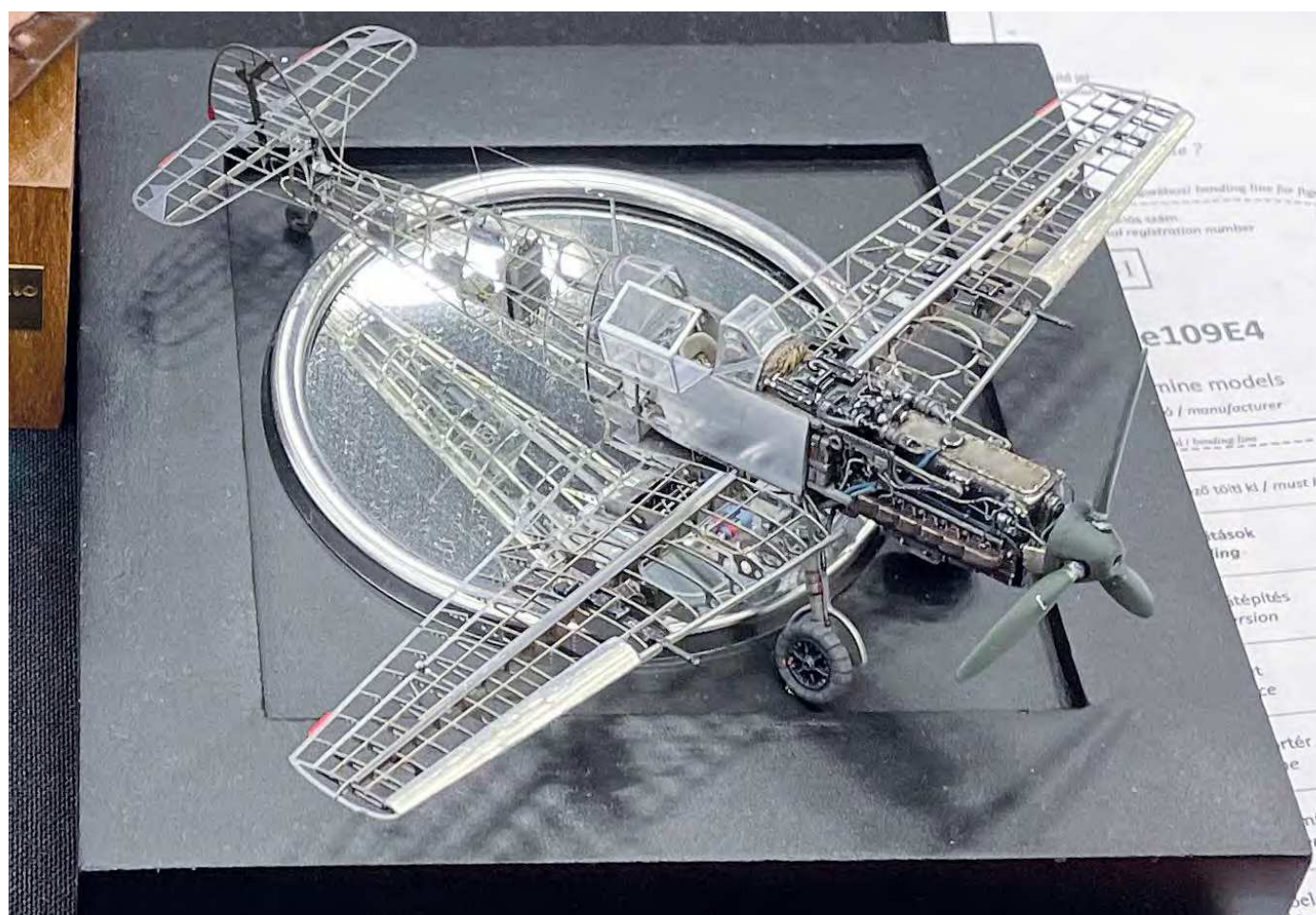
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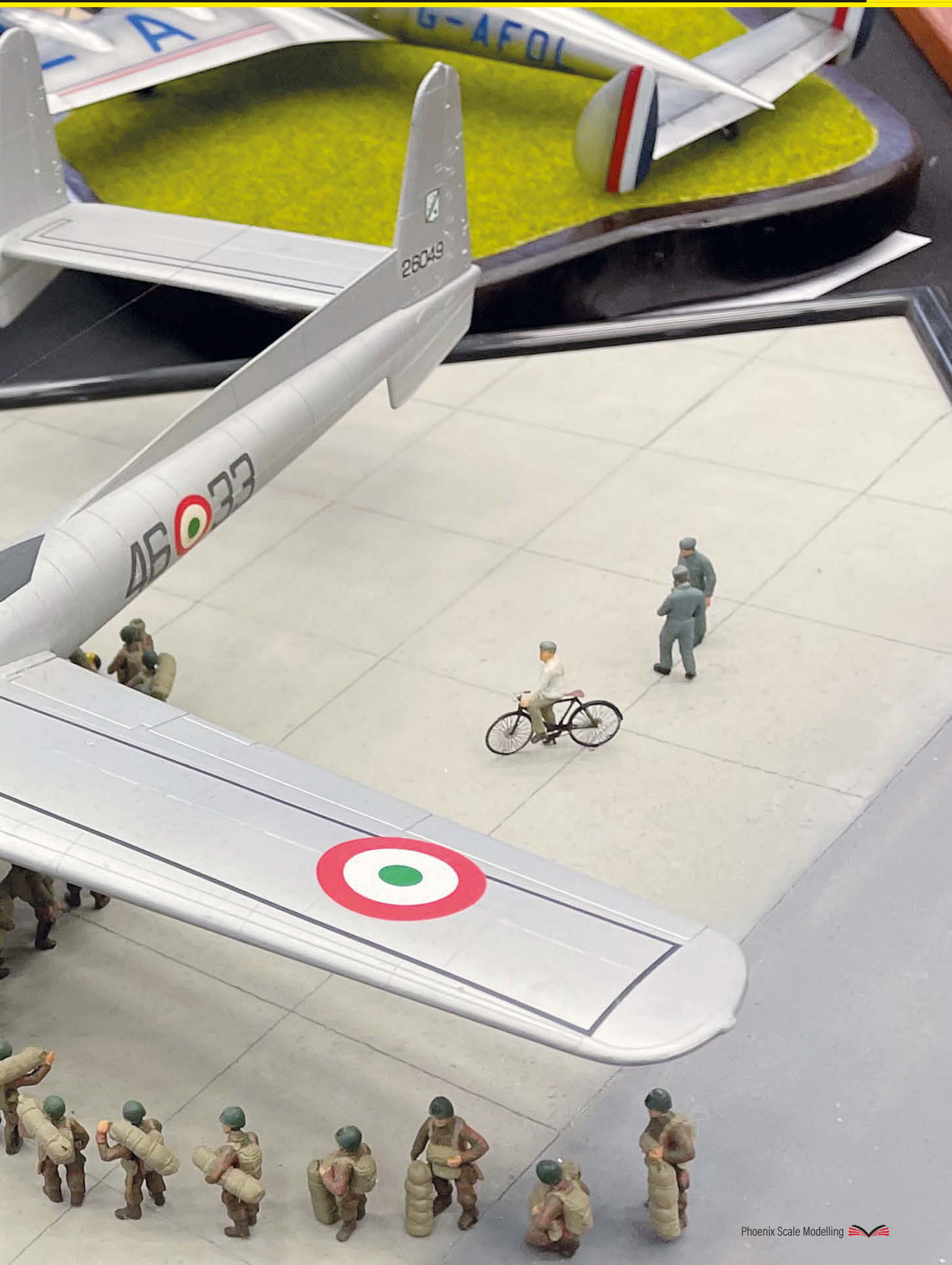


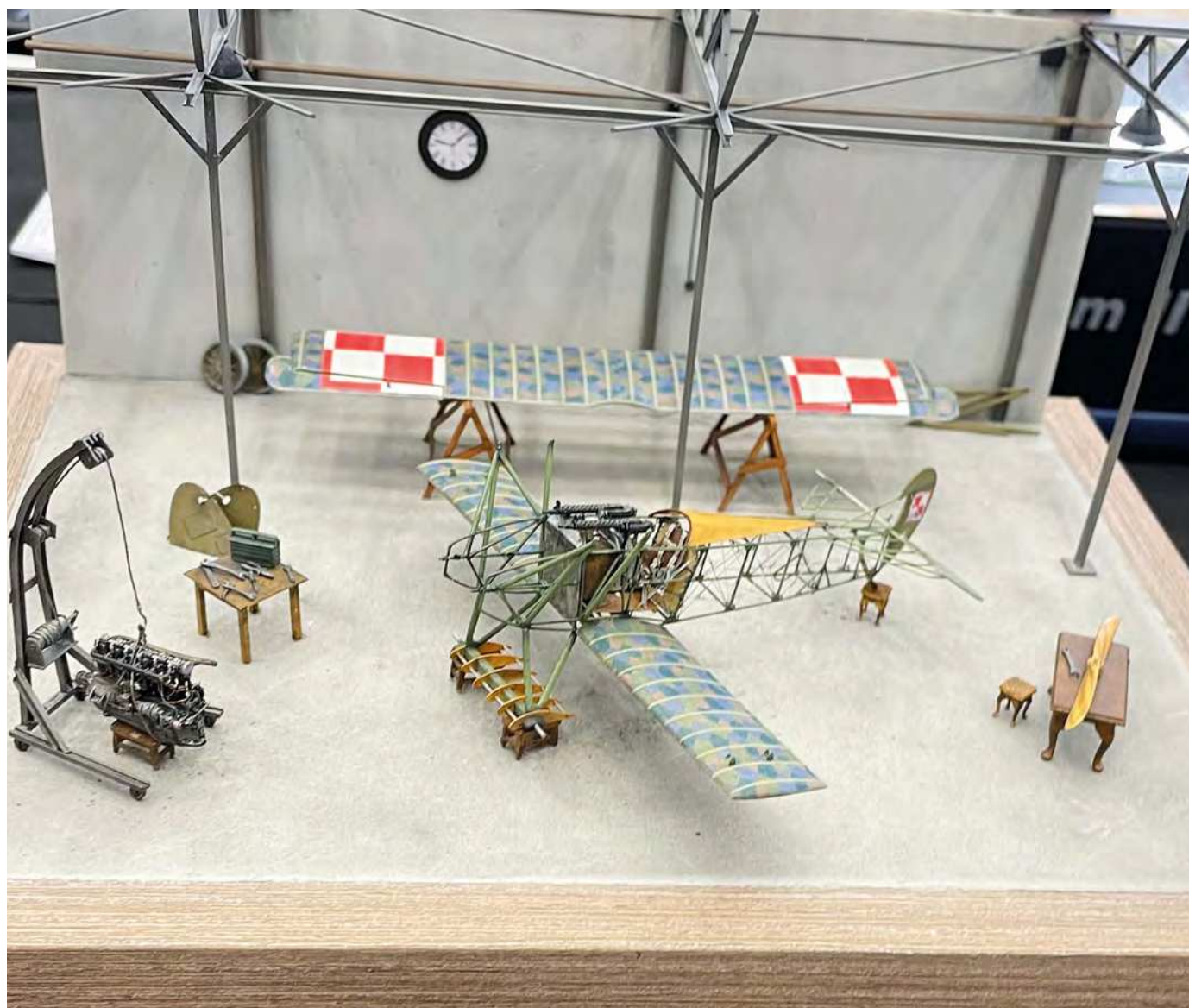
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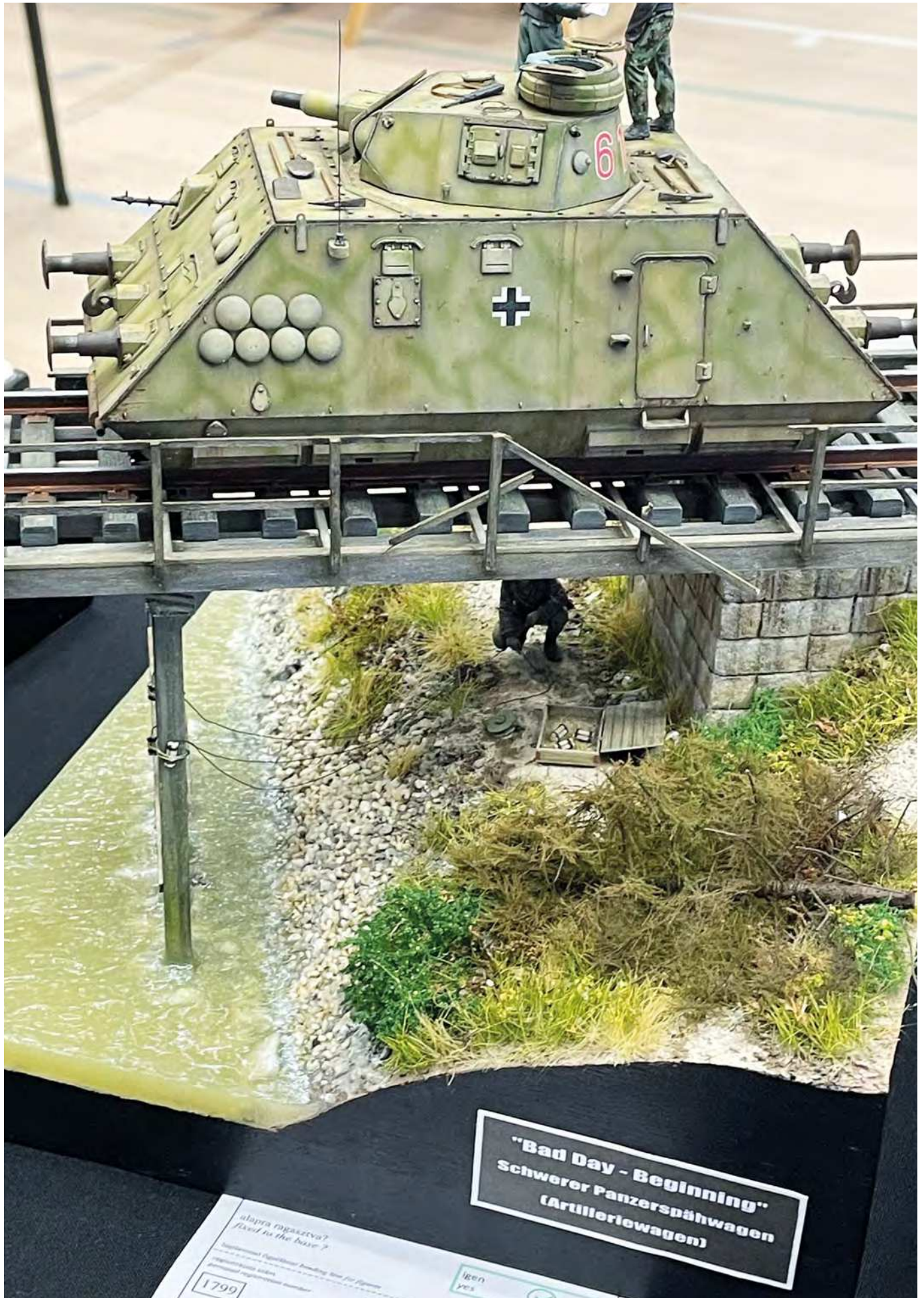






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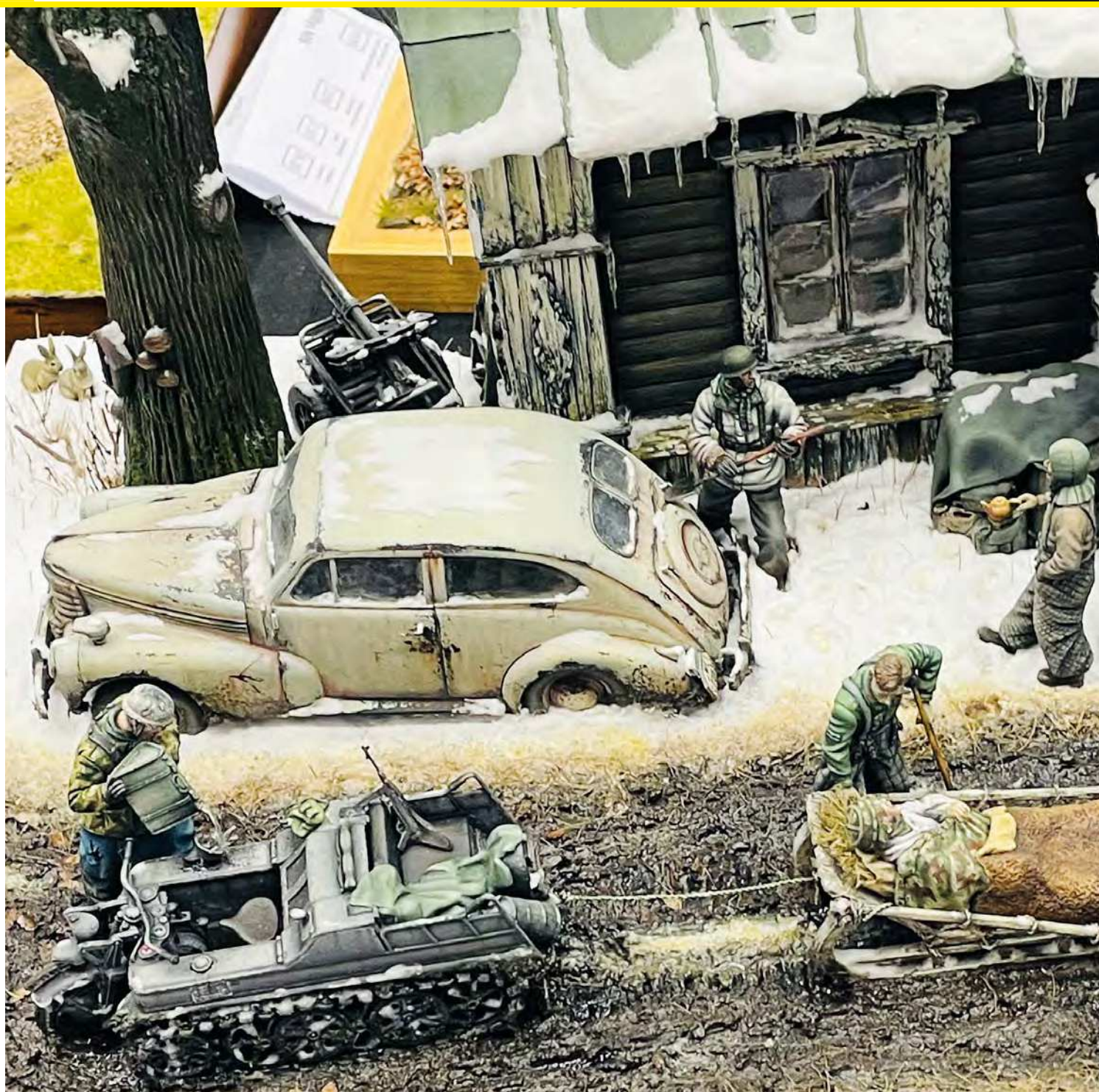
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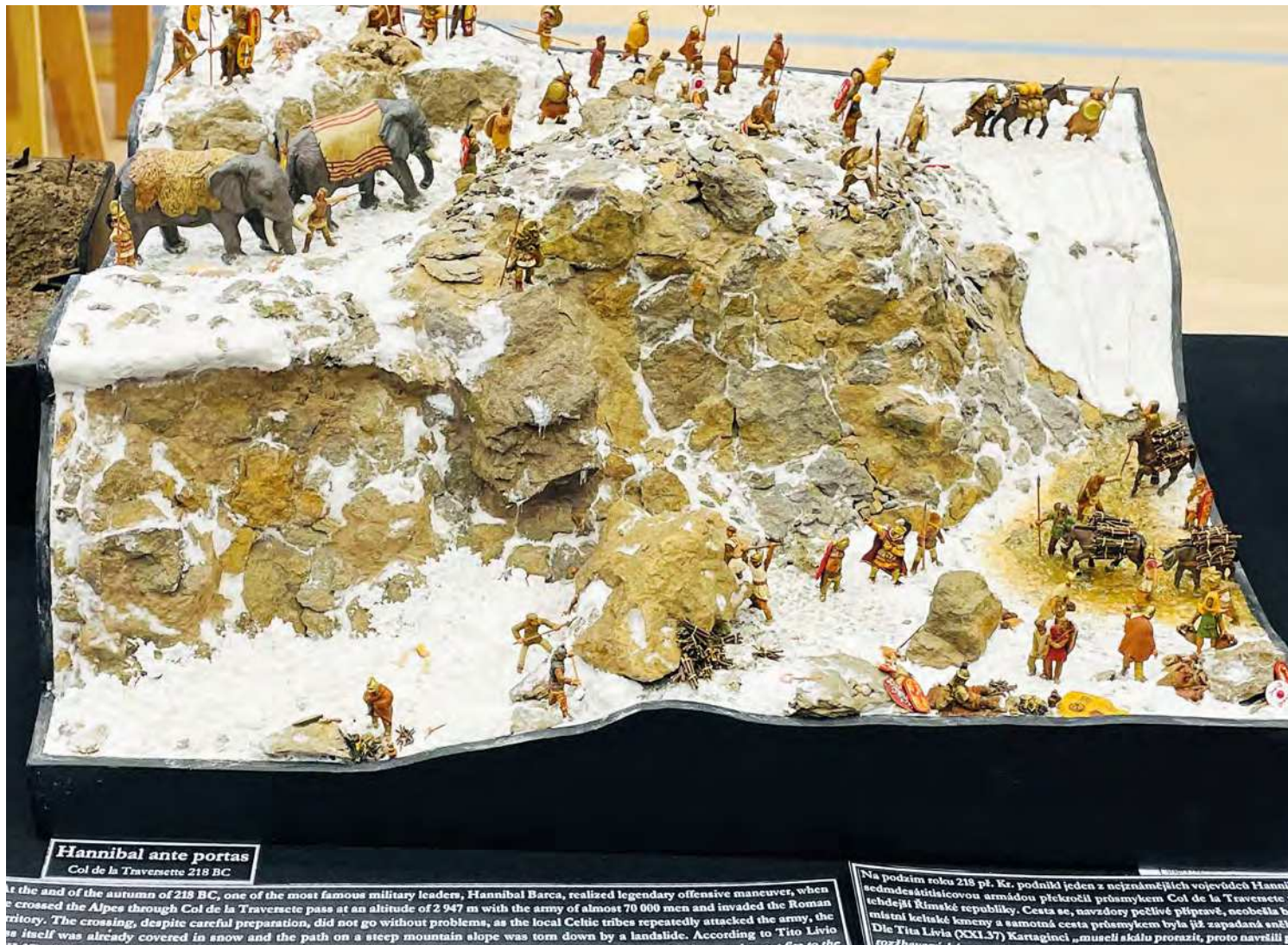
















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