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**GULF
PHWORR!**

Alpha Models
McLaren 720S
in 1:24

**Model
MAGAZINE**
INTERNATIONAL

**ISSUE
320**
June 2022
£4.95

Model MAGAZINE

INTERNATIONAL



**DIAL
M FOR
MARDER**

Tamiya's 1:35 Sd.Kfz.139 Marder III revisited

INSIDE Hobbyboss 1:48 Me262B1a-U nightfighter, Eduard 1:48 Bf109G-10, Tamiya
1:35 Archer diorama, plus new kits, books and modelling accessories...

**DOOLITTLE
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CENTURION Mk.III



1/16
SCALE
R/C TANK

Powerful & Realistic Action in Impressive Size Innovative British Tank Becomes an R/C Model!

1/16 R/C Tank Series **British Battle Tank Centurion Mk.III Full-Option Kit**

●4ch transmitter, 4ch receiver, battery pack, battery charger, and batteries for transmitter are separately sold.

(Item 56045)

The Centurion was developed as a British counter to German Army tanks at the end of WWII. First serving in the Korean War, the Centurion showed off its overwhelming strength in saving the Allied forces from crisis many times, and it was said to be the most effective tank in the world. Now, this innovative tank upgunned with 20 pounder gun joins the barnstorming 1/16 R/C Tank Series! The powerful form is captured in style with realistic depictions of cast surface patterns and weld lines. A full range of model and turret motion can be controlled, and sounds and lights are synchronized with motion. It is a rewarding task assembling, painting and weathering this large 603mm-length model. Enjoy building up your own version of a tank which exemplified the British Army's commitment to quality.

[Specifications] ●Length: 603mm (hull length: 476mm), width: 214mm, height: 189mm. Weight (approx.): 3,800g. ●The deep sound of the V12 gasoline engine capable of 650hp is realistically rendered. ●A bass reflex speaker with metal baffle plate gives rich sounds. Speaker unit equipped in the hull front emits highly authentic sounds accompanied by model actions such as main and machine gun burst fire, turret rotation and gun elevation. ●Multi-Function Control Unit coordinates various actions, sounds and lights.



The main gun offers elevation up to 18 degrees and depression of 7 degrees, in conjunction with realistic sound. The turret rotates a full 360 degrees and transmitter controls speed and stopping position.



When the main gun and 7.92mm Besa machine gun are fired, a flash is emitted from orange LEDs installed in the clear part in the tips that depict muzzle flash, accompanied by sound.



Durability is ensured by an aluminum chassis and die-cast components such as drive sprockets and suspension arms.



The gearbox unit offers plenty of power at a range of speeds from slow crawling to top speed.



A large bass reflex speaker unit has metal baffle plate to offer deep, rich sounds.



The control unit facilitates various actions, synchronized with sounds and lights for super realism.



Comes with an optional gun shield canvas cover (bottom) which locks main and machine guns for display models.

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

TAMIYA, INC. 3-7 ONDAWARA, SURUGA-KU, SHIZUOKA 422-8610 JAPAN

Check Tamiya's homepage for the latest releases! [www.tamiya.com] ©2022 TAMIYA

20 THEY COME AT NIGHT, MOSTLY...

Hobbyboss's 1:48 Messerschmitt Me 262B-1a/U1 nightfighter comes out of the shadows



TAMIYA Model MAGAZINE INTERNATIONAL

Issue 320 June 2022

EDITOR Marcus Nicholls
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A collection of various mechanical parts and tools, including gears, bearings, bolts, and a spray can, arranged in a grid-like fashion.

- 1:10 RC XV-02/TT-02 Ball Differential Set (39T)
- 1:10 RC XV-02/TT-02 Front Direct Coupling Set (39T)
- 1:10 RC XV-02 Slipper Clutch Set
- 1:10 RC XV-02/TT-02 Oil Gear Differential Unit
- 1:10 RC XV-02 Titanium Screw Set
- 1:10 RC XV-02 D Parts (Caster Block, 6x)
- 1:10 RC XV-02 E Parts (Rear Uprights)
- 1:10 RC XV-02 Urethane Bumper
- 1:10 RC One-Way Clutch (2pcs)
- 1:32 Mini4WD HG Aluminium Deep Rim Wheels for Low-Profile Tyres

- 1:35 Austin K2/Y Ambulance
airfix.com



- 1:48 US Carrier Deck
miquimenez.com



- 1:35 3D-print cable eyes WW2 German
- 1:35 3D-print tool clamps WW2 German
- 1:35 3D-print vehicle tool set WW2 German
- 1:35 3D-print Sherman periscope guards WW2 US
- 1:35 3D-print fruit crates
- 1:35 3D-print modern air compressor set

heavyhobby.com

- 1:48 F-4N conversion set (for Tamiya F-4B)
hypersonicmodels.com



- 1:35 WW2 German mortar GrW 34 with Crew mortar and X4 figures
- 1:35 Brewster Body Shield, US Infantry
- 1:35 WWI Italian Infantry in armour
- 1:35 WWI German Infantry in armour

www.icm.com.ua

- 1:35 StuH.42 & StuG.III Ausf.G Early
www.bachmann.co.uk



Tamiya is to release the Toyota GR Supra GT500 in 1:10 RC form, based on the TT-02 chassis. The GR Supra GT500 was developed in accordance with GT500 class regulations as a replacement for the Lexus LC500 which flourished in three seasons from 2017 to 2019.

- Lightweight, rigid polycarbonate body (clear)
- Separate black ABS parts depict side mirrors and rear wing
- Model is based on the shaft-driven 4WD TT-02 chassis
- Includes Item 51007 (Urethane Bumper M (TT-01/TGS))

www.hobbyco.net

Tamiya's paintbrushes are designed for use with modelling paints and are of superb quality. Three new brushes are on their way; Tamiya Modeling Brush HG II Flat Brush (Extra Small), Tamiya Modeling Brush HG II Flat Brush (Small), Tamiya Modeling Brush HG II Flat Brush (Medium). Also new is the 'Conical File', ideal for opening out holes in model surfaces.

www.hobbvco.net



A Buccaneer in 1:48 is one of those 'Holy Grail' kits and finally, Airfix are to release one soon, as the Royal Navy S.2 variant. More new soon!
www.airfix.com



Designed for Revell's new 1:48 SR-71 Blackbird, these resin seats offer a much-improved level of detail. A limited production 'deluxe' set is also on the way which will include ejection rails and canopy jacks. An SR-71 wheel set will follow and then the SR-71 brake chute set.

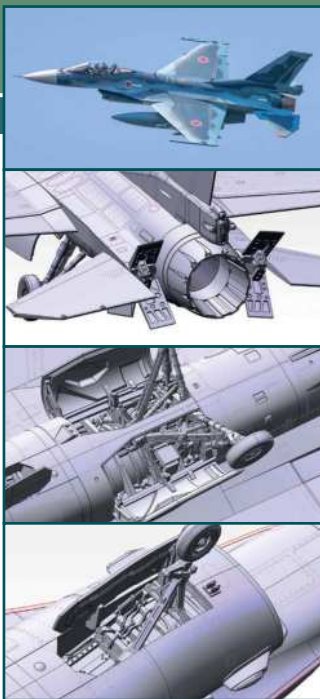
www.hypersonicmodels.com



Tamiya's new 1:35 US WW2
GIs set is nearly here! Here's
the superb box artwork.
www.tamiya.com
www.hobbyco.net



The 'Weekend Edition' kit of this iconic Soviet Cold War jet fighter MiG-15 comes with some spectacular decals! It will make a very eye-catching model.
www.creativemodels.co.uk
www.eduard.com



NEW FROM FINE MOLDS 1:72 Japan Air Self-Defence Force F-2A Fighter

The F-2 is a fighter aircraft jointly developed by Japan and the United States based on the F-16 fighter aircraft adopted by the US Air Force. Fine Molds are to release an all-new 1:72 kit of this attractive jet and it is certain to be very highly detailed.

www.modelsforsale.com



NEW FROM HEAVY HOBBY 1:35 3D-printing accessories

This new manufacturer has been exploiting 3D-printing technology to create some extremely useful items for armour modellers, including a set of individual track links for Tamiya's M18 Hellcat in 1:35 and a set of WW2 British aerial bases which are notoriously difficult to replicate in miniature.

www.heavyhobby.com



COMING SOON FROM MINIART

MiniArt's next 1:35 armour kit is very topical - it's the BTR-4 Early with anti-RPG bar-armour and gun turret. Expect lots of detail.

www.creativemodels.co.uk



NEW FROM REVELL

Classic late-Sixties muscle car action is on the way from Revell in the form of the '69 Chevy Camaro SS!

www.revell.de



COMING SOON FROM ICM

1:35 Unimog S404 with box body

ICM's Unimog is a German military variant and will be much appreciated by modellers worldwide.

www.icm.com.ua



NEW FROM RODEN - 1:144 Heinkel He 111 Z-1 Zwillling

The 'Zwillling' (twin) was a large German special purpose aircraft of the Second World War designed to tow heavy gliders. Roden's new kit is in the manageable scale of 1:144 so it won't hang off the ends of your modelling workbench.

www.bachmann.co.uk



NEW FROM TAKOM BLITZ 1:35 Jagdtiger 2 in 1

This 1:35 Jagdtiger is a '2 in 1' release, allowing the use of the 128mm Pak L66 or 88mm Pak L71 main guns. The hatches can be fitted opened or closed and the kit comes with link-and-length tracks with track assembly jig.

www.bachmann.co.uk



COMING SOON FROM ITALERI

On the way soon from Italeri is this stunning 1:24 kit of the Scania S730 Highline 4x2 tractor unit. The kit comes with an spectacular fret of photo-etched brass parts for the engine grilles.

www.hobbyco.net

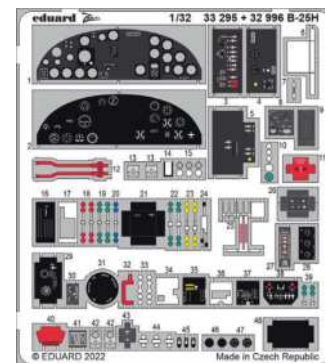
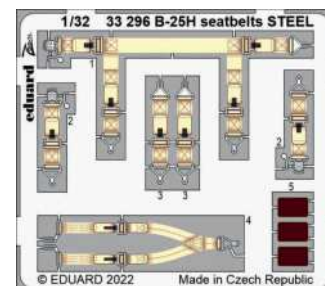


COMING SOON FROM EDUARD

- 1:32 Photo-etched set Tornado ECR seatbelts Steel (33294) for Revell
- 1:32 Photo-etched Zoom set B-25H (33295) for HK Models
- 1:32 Photo-etched seatbelts Steel B-25H (33296) for HK Models
- 1:48 Brassin Su-27 ejection seat (648717) for Great Wall Hobby
- 1:48 Brassin A-4 Skyhawk ejection seat (648718) for Hasegawa/Eduard
- 1:48 Brassin Petiyakov Pe-2 wheels (648719)

www.creativemodels.co.uk

www.eduard.com



KNOCK KNOCK!

Spencer Pollard gives Tamiya's excellent Archer a home...

Last month we took a detailed look at the Tamiya 1:35 Archer, offering you plenty of hints and tips to help you build and paint the kit for your own collections. This time around we thought it would be fun to complete the project with a small diorama that would show off not only the quirky nature of this most unusual tank-destroyer, but also reveal how it is possible to create a diorama with very little additional expense.

Over the next few pages, you find plenty of images of the diorama under constructions, and though by no means exhaustive, the captions will describe how everything came to be. You will find a building and accompanying walls that were made from little more than embossed plastic sheet, plastic card, Evergreen section and a few MiniArt details; some gates that were cut from styrene with a few engraved details; a path from embossed Styrofoam and a redundant field kitchen that had certainly seen better days! ▶





FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 BRITISH SELF-PROPELLED ANTI-TANK GUN ARCHER ● KIT NO.35356



The largest structure in the diorama is this corner of a building. This was made from embossed plastic 'brick' card, reinforced with Styrofoam that has been glued to its back face. Layers of thin card created the illusion of concrete and plaster trim, before everything was stippled gently with a layer of Polyfilla (watered-down to make it easier to work) to create a little texture. The roof tiles and gutter and both MiniArt details, cut to size



The side of the building reveals a broken gutter pipe, made from MiniArt parts and a length of aluminium tube. You can also see in this shot the little telephone connectors, as well as electrical cable running around the walls. Old buildings on the period often feature these little runs of wires, so I was keen to add them to my model, in this case using thin lead wire. Finally, note the broken brackets for the down pipe...



The doors were very simple to make, rectangles of plastic card being scribed with a Tamiya Plastic Scriber to add both planks and wood grain, before detailing with Evergreen 'U' section profile, rod and strip. The scrolled metalwork on top of the gates are repurposed MiniArt lamp brackets, simply cleaned-up and glued in place



Tools needed to texture the gates: a Tamiya Plastic Scriber and a stiff, suede brush



The brick pillars were made in exactly the same way as the main building, though this time, Styrofoam was only used to create the stone decoration and reinforce the tiny section of wall. The wooden gate posts were made from textured Evergreen 2mm square profile, held in place with plastic strips and lead foil brackets



A small section of MiniArt railing added a nice layer of detail above the wall, as did a small plastic bead – found in my workshop – that found its way to the top of the concrete pillar cap



Here are those concrete pillar caps, each cut from two small pieces of 5mm Styrofoam. The beads were glued into counter-sunk holes to ensure a natural sit



The pavement was made from 5mm Styrofoam, textured with a suede brush and then engraved with a pencil guided using a steel ruler

Along with the construction of the various bits and pieces that make up the scene, I have also revealed how the paintwork was made to match that found in, and on, the Archer itself. Last month I described how the model was l accentuated in a way that I'd not done before, forced shadows, highlights and reflections being added to make more of the detail 'pop'. Those ideas were

continued on through the painting on the diorama, forced shadows and then highlights being added to imitate a light source — the sun — illuminating the scene from the right hand side. It was all a bit of an experiment, but hopefully you will see that in action as you examine the images more closely. This then is 'Knock Knock!'. I hope you like it! ●



Mapping out the scene to ensure everything fits. Happy that it did, it was time to apply some paint...



The walls were painted in very pale colours, Tamiya Flesh, darker slightly with Red Brown and Hull Red, being a weapons of choice for the base-coat. I then added shadows with more Red Brown and Hull Red, to create the graduated finish you see here. The roof and the pillar caps were both painted with dark grey, before being highlighted with Tamiya Neutral Grey and then onto Vallejo shades of grey and white

Details were all picked-out using Vallejo colours, the drain-pipe and those runs of wires, being particularly pleasing as a result. Note here how bright the highlights are an almost white colour being used along extreme edges of the roof tiles and the corners of the pillar



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FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 BRITISH SELF-PROPELLED ANTI-TANK GUN ARCHER ● KIT NO.35356



With the base-coats in place, weathering was added to the walls, Lifecolor's range of weathering products being particularly useful here. Colours such as Lime Green, Dirty Green and Dark Mould, found their way onto the bottom and corners of the wall, as did, thinned Vallejo Intermediate Green, a wonderfully vibrant shade that imitated moss is a most realistic way

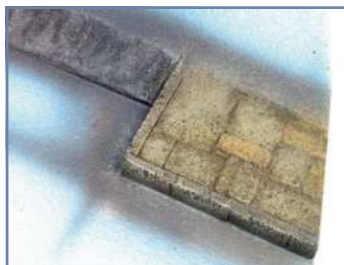
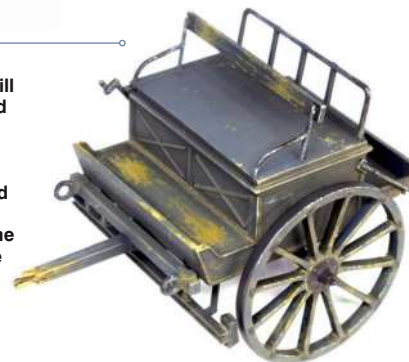


The two gate-posts were painted using Vallejo Green Grey and then highlighted with a drybrushed layer of that colour, lightened with a mixture of Ice Yellow and White Grey. Brackets were picked out with German Camouflage Black Brown and then washed with Lifecolor Rust. Compare how dark this side of the pillar is with how bright the other edge is once in place on the diorama. Remember how I mentioned that this scene was illuminated from the righthand side? This is that effect in action



As with the gate-posts, the gates were painted in a muted grey shade, Tamiya Medium Grey being used as a base-coat, followed by over-painting of individual planks using Vallejo acrylics. Metalwork was picked out in German Camouflage Black Brown and in the case of the lower kick panels, stippled with Lifecolor rust shades and then washed with a layer of Abt502 Dark Rust oil paint, thinned with Odorless Thinner

A spare Tamiya Field Kitchen limber was assembled and then partially damaged to fill a small corner of the scene. Though I could have used something more warlike, I liked the more mundane character of this piece, pointing as it did to quieter periods away from the action and noise. This was painted with Tamiya German grey, weathered with oils and then detailed with acrylics. Note the worn woodwork, applied here using simple layers of Vallejo Green Brown and Khaki



The pavements were simply airbrushed with Tamiya acrylics and then drybrushed with Vallejo shades to bring out the detail. Given that most of this would later be covered with rubble and debris, this was a little overkill, but it was better to be prepared than not when final finishing needed to be completed





All of the main structures have now been painted and superglued in place. Though I didn't photograph the process, the groundwork was made using a layer of tile grout, applied with a knife and flat stencil brush and then detailed with silver sand, brick dust and Red Zebra's 'Brick Rubble'. Everything was painted with Tamiya Flat Earth, darkened with Flat Black and then highlighted with Flat Earth, Wooden Deck Tan and Buff, before being drybrushed with various earthy Vallejo shades. Individual bricks and stones, picked out with acrylics, upped the levels of detail, added accents and completed the picture. With the edges of the diorama base sprayed black, this little scene was finished!



Build Your Dream!

LEVEL 5

03820 Eurofighter Typhoon "Black Jack", 1:48

LEVEL 5

03829 Messerschmitt Bf109 G2/4, 1:32

NEW PARTS

LEVEL 4

05218 German Research Vessel Meteor, 1:300

REVELL ACCESSORIES

Full range of Revell paints and selected accessories available at Hobbycraft and all good stockists

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hobbycraft

hobbycraft.co.uk/brand/revell

FULL-BUILD: MODERN SUPERCAR

ALPHA MODELS 1:24 MCLAREN 720S ● KIT NO.AM02-0014



Lesley Eyckerman builds the Alpha Models McLaren 720S in 1:24

GULF PHWOW



ARRR!

Hi guys! Here I am with a new build. A few months ago I was asked by Alpha Models to build a few of their models for Tamiya Model Magazine and I gladly accepted. A few months later (after some customs issues) I finally received three 1:24 kits; Aston Martin Vantage, Porsche 911 GT3 and the McLaren 720S. All these will be built for the magazine! As a car fan I like the McLaren very much, so this one was going to be first. I don't usually build street-car models, but gave this one a racing look, so I would feel a

little more within my comfort zone.

I also was asked by 'Streethblisters' if I wanted to use their paints. I also gladly accepted and they sponsored me with some paints for this and future builds for the magazine. It was going to be another challenge for me, because I had never used them before, but was confident that I'd have no issues because I heard nothing but good news about them. In my opinion, a 'Gulf' livery would look amazing on this model, so I went off to search on the internet and immediately found some pictures. ▶

FULL-BUILD: MODERN SUPERCAR

ALPHA MODELS 1:24 MCLAREN 720S ● KIT NO.AM02-0014

SO LETS GET STARTED!

When I opened the kit I noticed the resin parts had great detail; they look fresh and needed almost no clean up, but with a full resin model here will be a lot of test fitting before and after painting. There were also five photo-etched frets and they also look sharp and highly detailed. The windscreen and windows were the parts that I was most afraid of, because they are not pre-formed, only pre-cut with black trimming applied. The clear lenses for the headlights and tail-lights look great with no flash, just a bit of clean-up on the sides. There were also a few small sheets of decals and some metal stickers in the kit.

CLEAN UP AND TEST FIT

Like always, I cleaned up all the parts first, which makes things a lot easier when you have to test fit every resin part. During clean up I started dry-fitting the parts and deepened the panel lines on the body and came to the conclusion that this kit is very well designed. All parts fell together like a dream, so I gave all the resin castings a bath with Motip M600 degreaser and left them to dry overnight. Then I took out my ultrasonic cleaner and cleaned all the resin parts with a degreaser called 'Dasty'. It's a Dutch product and works very well in the ultrasonic cleaner. I gave all the parts a good rinse with a toothbrush and left it to dry for a couple of days.

PRIMER AND BASE-COAT

A few days later I mounted all the parts on sticks and clamps and dried them further for a night. I then gave all parts including the body a few coats of Streetblisters light grey primer and left this to dry overnight. Most of the castings need a black base-coat, so I applied a few coats of Motip semi-gloss black and went on the body. I gave



Checking the gaps between the door and quarter panel



Checking the gaps between the door and fender



The gap between the door and fender is too wide. So it was filled 2k polyester filler



2k polyester filler applied and sanded smooth



Fitting the door again to check the panel line. Looking good!

the body a quick sanding with some 3,000-grit sandpaper and brushed off all the dust with a clean paint brush, followed by Tamiya's anti-static brush plus a clean-up with Motip M600.

After this process I sprayed a few coats of Streetblisters Gulf Racing Blue and left this to dry overnight again. The next day I started masking off the hood/bonnet from the body and



Body primed in Streetblisters Grey Primer



Body painted in Streetblisters Gulf Blue

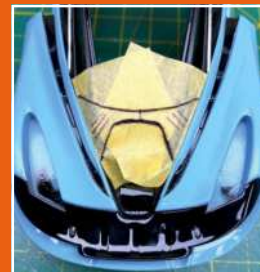


Masking off the rear wing for Streetblisters Gulf Orange



Fully painted rear wing, ready for first coat of clear

Making carbon-fibre template for the engine cover



the rear wing and gave it a few coats of Streetblisters Gulf Racing Orange. I'm very impressed with these paints because they self level very well and have great coverage. It's some thing that I have never seen before and I will definitely use these paints again.

Then the real adventure started; taping off the body for the black parts of the car, which I did in three steps. First the headlights, then the side vents on the quarter-panels, followed by the roof. This took me three whole days, because I wanted to make sure that everything was fully dry before taking it to the next step.

After all the black parts had been painted I applied a few thin coats of Streetblisters 2k clear to the body and left it to harden for a week. Some other parts like the brake discs, hubs and callipers got painted in different colours; Gulf Racing Orange on the brake callipers, Zero Paints Carbon Ceramic Grey on the brake discs and some silver on the hubs, also from Zero Paints. For the Gulf decals I used an aftermarket set from Tabu Design for the McLaren F1 GTR which I think was appropriate for this build. I also applied carbon-fibre decal on the roof and engine cover.

I gave it all a good clean afterwards with a moist microfibre cloth and left it to dry overnight. The next day I sprayed a mist-coat of Streetblisters 2k clear, then one full wet coat to give it that deep shiny look. This again was left to dry for a week, so I could start the carbon-fibre work.

THE CARBON SAGA

Before I had started to paint the body I had masked off the areas that needed to be carbon-fibre and made a full A4 sheet of templates; this has been one of the most extensive carbon-fibre decalling jobs I have ever tackled. I took me nearly two weeks to complete this challenge; I used KA models carbon-fibre decals for it because I wanted to try something new and was glad I did. They worked very well with some Set and Sol from Microscale, plus some heat from a hairdryer. I applied some carbon-fibre accents in the interior and on the outside of the body to give it a more detailed look. I also paid more attention to the way I applied the weave, because I had never really done this before, usually just applying it and not paying attention to the way the weave went. It worked out pretty well and am pleased with the end result. I gave the parts like the front splitter, vents, diffuser a few coats of Streetblisters 2k clear and left it to dry for another week. ▶



Masking off the body for the areas that need to be black and carbon-fibre



Fully masked body, ready for black paint



Black colour applied and left to dry for a few minutes



Masking removed and ready for Streetblisters 2k clear



Applying Bare Metal Foil chrome for a chrome trim



Applying 1mm black stripes decals from Microscale



Dry-fitting the interior into the body

FULL-BUILD: MODERN SUPERCAR

ALPHA MODELS 1:24 MCLAREN 720S ● KIT NO.AM02-0014

THE INTERIOR

The interior tub, dashboard, steering wheel and door panels were painted with Zero Paints Carbon Grey to create a grey base. I masked off the seats, steering wheel, door panels and tub and then painted the unmasked areas with Charcoal Texture Paint from Zero Paints to give it that alcantara look. Some parts like the steering wheel and interior panels were given the carbon-fibre treatment too. The wheel was pretty tricky, but with some Microscale Sol, hairdryer heat and a very sharp scalpel, it all turned out pretty well.

POLISHING STAGE

The body had some minor dust particles in its clear finish, so I wet sanded them out with 3M Trizact 3000 and 6000. I got this from a friend and it worked better and most importantly much faster than usual; I don't know how, but it did. I took out my small power-drill fitted with 25mm micro-polish pads and started to polish the body further, using Number 5 medium polishing compound, working to the point where that the scratches had all gone and the high shine came back again. I then made a few passes with Number 5 fine polishing compound to deepen the shine even more. I think this is one of my best polishing jobs so far! I cleaned out the panel lines with some water through a clean airbrush and gave it an overall wash. With



Carbon fibre template made for the engine cover



Carbon-fibre decals applied and ready for 2K clear from Streetblisters

Assembly of the seats into the interior



Finished steering wheel with carbon-fibre decal

Fully assembled dashboard, ready to install



Mini Review...

ROYAL MODEL COUGAR 4X4 SAGGED WHEELS (772)
www.royalmodel.com



Designed for Panda Hobby's 1:35 kit of the US Cougar MRAP, this set of six wheels/tyres (four full wheels with X2 spares) is cast in resin with great detail incorporated in the treads, sidewalls and hubs. The kit can be found online.



Photo-etched parts before they were primed with Metal Primer from Tamiya and black colour



Finished wheels and ready for assembly



Fully assembled brake discs, ready to be installed onto the hubs

that out of the way, I cleaned up the headlights and tail-lights, airbrushing the former with Tamiya X-19 Smoke to darken them a bit and the latter with Tamiya X-27 Clear Red, leaving them all to dry for two days.

FINAL ASSEMBLY

After the polishing stage and a few days of rest, I started to hand-paint the headliner with some Vallejo Acrylics Model Color black and left it to dry for a few hours. Next up were the grilles, which were all primed with Tamiya Metal Primer, followed by Tamiya Grey Primer. I then sprayed a few coats of semi-gloss black from Motip. I installed them all according to the instructions – which are superb – with Tamiya Craft Bond. I prefer it this way, because I can clean up afterwards with a Q-Tip and tap water. You can't do that when using CA glue!

After the grilles had been installed, I fitted the brake discs and callipers to the hubs, glued them in place and made a quick dry-fit with the wheels. All looked good and I was then ready to instal the interior inside the body. This was a bit tricky, but I used some Tamiya Craft Bond again to set it all in place, pushing the door panels into the inside of the body.

Next up was to instal the dashboard and rear diffuser which I did with CA glue, leaving it to harden overnight with the chassis under it, so nothing could move anymore. The next day I glued and screwed the chassis to the body and glued the front splitter in place with some CA glue.

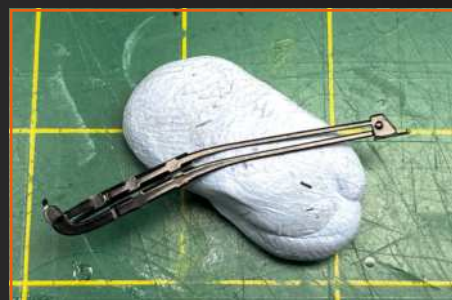
WINDSCREEN ANXIETY

The next part was the most tricky part of this build; fitting the windows. As I mentioned before, these are not pre-formed, but do come pre-coloured and pre-cut. First, I dry-fitted to make sure everything fitted correctly; it did. I applied Bob Smith Industries 'Super Gold Plus' into the places where the clear parts needed to be glued down and carefully dropped the windshield in place on one side, hitting it with some CA activator to make it set faster. I then was able to move to the other side and repeat the process.

I installed the remaining windows using the same method and it worked well. I then glued in the front headlights and tail-lights with some more BSI (Bob Smith Industries) Super Gold Plus and a bit of activator to speed up the process. I glued on the wheels and left them to dry overnight



Rear diffuser in carbon-fibre, ready for coat of Semi-Gloss Clear from Zero Paints



Sub-assembly of the windscreen wiper

on my bench with a cover over it. First thing I did the next day was to drill a 3.5mm hole into the undersurface of the chassis to secure the model to the baseplate from a display case, so I could work with two hands if needed.

The side mirrors were installed using BSI Super Gold plus and I glued in the two pins for the rear wing with some

Tamiya Craft Bond so I could align the rear wing, securing it in place with a small drop of CA glue. The last part to fit was the windscreen wiper. I bent it to shape and glued the connecting parts together with CA. After is had cured I glued it into place, gave the body a good clean with Tamiya Modeling Wax and called this one done. ▶



Headlights painted with Tamiya X-19 Smoke and tail-lights painted in Tamiya X-27 Clear Red



Installed the chrome exhaust tips and rear wing

FULL-BUILD: MODERN SUPERCAR

ALPHA MODELS 1:24 MCLAREN 720S ● KIT NO.AM02-0014



FINAL THOUGHTS

Although this was a pretty difficult kit to build, I had a lot of fun with it at the same time. The parts fitted perfectly with had no major issues. The Streetblisters paints I used were a dream to work with and I'm going to use them more often. I'm very grateful that Alpha Model trusted me to build this one – and a few more – for the mag and that Streetblisters gave me the opportunity to test their wonderful paints. I also want to thank my friend Tom (TheScaleModeller) for his excellent video-build on YouTube, which was a good guide for me. To conclude, I'm very pleased with this build and am getting more comfortable in building resin kits. So, on to the next! ●

TECHSPEC...

ALPHA MODELS 1:24 MCLAREN 720S KIT NO.AM02-0014

Materials:

Resin, photo-etched metal, clear windows film, waterslide decals

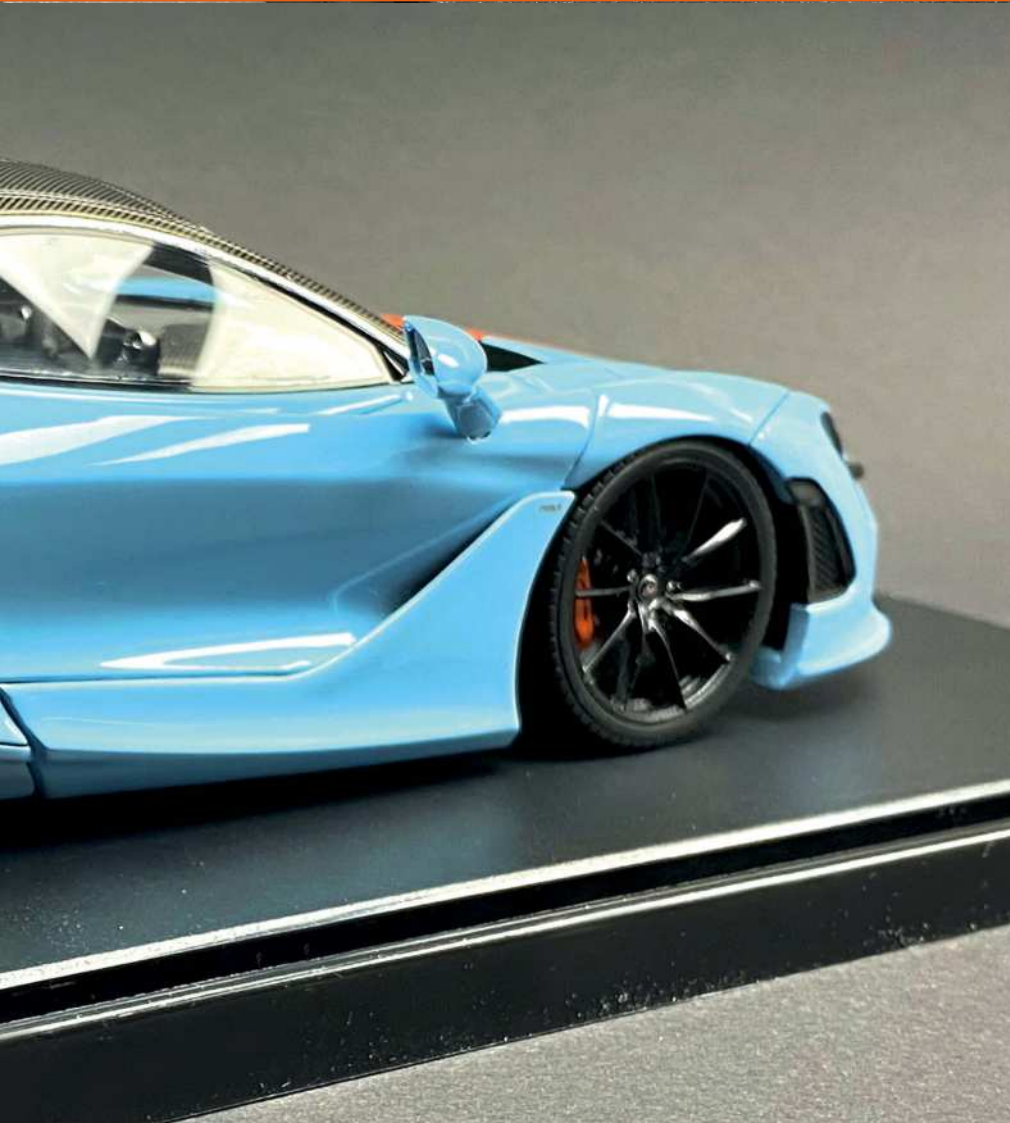
Paints used:

- Streetblisters: Gulf Racing Blue, Orange, Grey Surface Primer
- Motip: Gloss, Semigloss Black
- Zero Paints: Carbon Ceramic Grey, Carbon Grey, Charcoal Texture Paint, Metal Aluminium, Chrome
- Tamiya Acrylics: X-10 Smoke And X-27 Clear Red
- Vallejo Acrylics Model Air: Chrome Silver, Model Color Black

Availability:

- Alpha Models: www.hiroboy.com www.alphamodelkit.com
- Streetblisters: www.streetblisters.com
- Vallejo Acrylics: www.creativemodels.co.uk
- Zero Paints: www.hiroboy.com
- Tamiya Acrylics: Tamiya paints are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; www.hobbyco.net





THEY COME AT *NIGHT* MOSTLY...

Oliver Peissl brings
the Hobbyboss
1:48 Messerschmitt
Me262B-1a/U1 to life

The Messerschmitt Me 262 'Schwalbe' or also known as the 'Sturmvogel' is a household name to every aircraft enthusiast at home and abroad and stands for innovation, and engineering milestones. The history and use of this aircraft, originally designed as an interceptor, is indisputably one of the great moments of German aviation. However, the events of the war and the course of its history led, among other things, to this 'wonder weapon', conceived as an air superiority fighter, quickly losing its impact in its role as a fighter-bomber, and only very late in its life did it fulfil its actual task in the ErprKo 262, JG7 and JV44 units. One of these modifications, however, stood out after repeated conversions and achieved great success, even if this was only of very short duration in early '45. The following construction report deals precisely with this modification of the single-seat fighter to a two-seat night fighter of the 10th/NJG 11 equipped with radio measuring devices for night hunting. ▶



About the author:

Born on 19th March 1978, Oliver Peissl aka 'Erla's Werke' has been enthusiastically practising plastic modelling since the age of seven, with his first interest being the "modern" military jets and helicopters of the time. Today, more than thirty-five years later, he devotes himself mainly to German aircraft of the Second World War in 1:48 and 1:32, with the occasional jet of all eras and nations being built.

**A brief history of the Me262 nightfighter**

In November 1944, former flight instructor Lieutenant Kurt Welter, was assigned to night fighter operations on an experimental basis with only a few modified Me 262A-1a. They flew according to the 'Wild Sow' method, which was based on visual contact. Welter achieved his first aerial victory with a jet fighter at night by shooting down a Mosquito in mid-December 1944. With the addition of more pilots, Welter's command was assigned to NJG 11 as the 10th Squadron in January 1945. The most important task of the 262 night fighters was to counteract the fast British Mosquitos, which acted as pathfinders for the bombers and as night fighters made life difficult for the German opponents Bf 110 and Ju88. Kurt Welter, who was later promoted to first lieutenant, was the most successful fighter pilot with this aircraft, with 25 confirmed aerial victories on Me262s. It was not until the end of February 1945 that the first makeshift Me 262B-1a/U1 night fighters were converted from the A-1a types at the German Luftwaffe in Berlin/Staaken, which were available to the command until the end of the war alongside single-seat Me 262A-1a. The 10th/NJG11 remained the only night fighter unit equipped with jet fighters.

Please note, the swastika emblems on the tail have been removed from these photographs to comply with laws in countries where Tamiya Model Magazine is sold

FULL-BUILD: WORLD WAR TWO AXIS AVIATION

HOBBYBOSS 1:48 ME262B-1A/U1 ● KIT NO.80379

RED 10

Drawing exact conclusions from the time of the collapse of the German Wehrmacht and its Luftwaffe is not so easy from today's perspective. I have tried to piece together the route of the aircraft Me 262B-1a/U1, serial number 110635, flown by Kurt Welter, from various information on the net and various books in order to understand the origin and also the reason for this unusual colour treatment and to implement it accordingly on the model. There were several machines of the Nachtjagdverband of the 10th/NJG11 which all have a different – if you look closely – colour scheme and therefore raise questions from the point of view of the modeller.

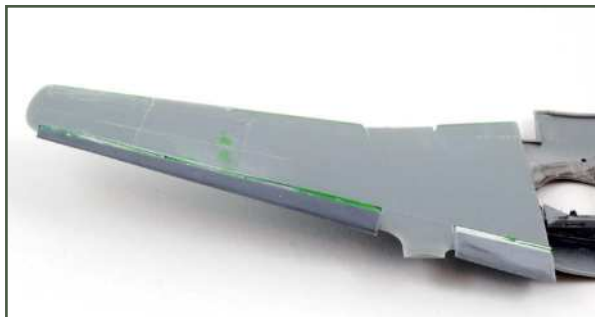
These were Red 6, 8, 12 and Red 10 in focus here. According to information, further machines were built but did not make it to the units or were not used. Conclusions from the factory number came to nothing and my focus was first that these night fighters originated from training aircraft until I found rather by chance a letter which described that the night fighter swallows were former single-seaters from the Leipheim production. According to my information, these were then converted into two-seater night fighters by the German Luftwaffe in Staaken. Thus I had found the reason for the unusual visual colours of these aircraft for myself and could start designing them. The focus of this building report is therefore clearly on the painting, but before this work can begin, the model had to be started first.

NORMALLY WE START WITH THE COCKPIT...

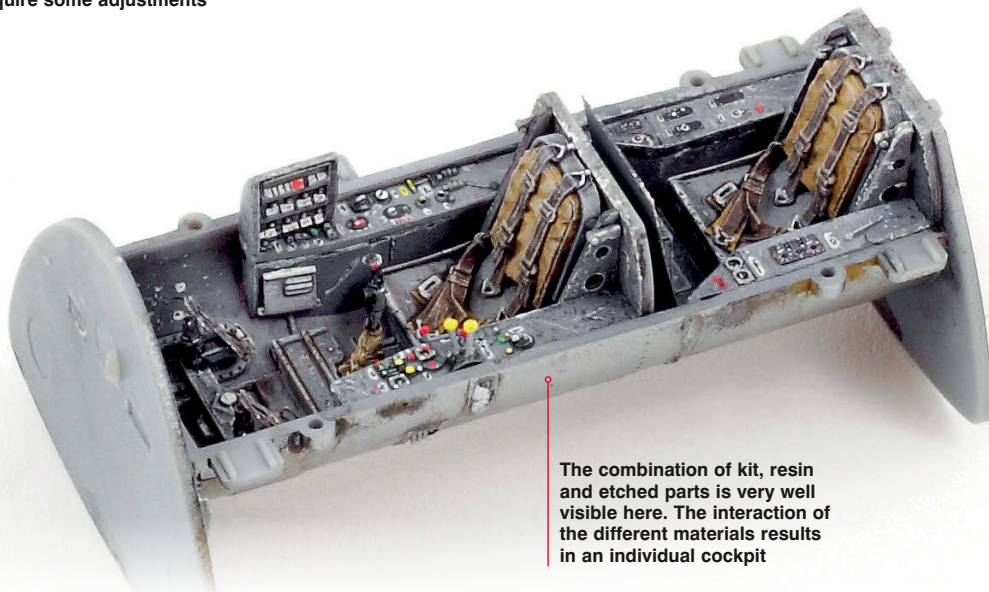
....but not in this case. The reason for this lies in the fact that pictures of the original always showed extended slats and unfortunately these are not possible in this kit, as well as in those of the competition. The representation of extended slats requires a certain amount of effort and motivation, which I often still have to a great extent at the beginning of a project.



The more complex work on the slats should be well considered, as the TrueDetails slats require some adjustments



Regardless of the effort, it is worthwhile to use it, because the extended slats breathe more life into the model already in the shell



The combination of kit, resin and etched parts is very well visible here. The interaction of the different materials results in an individual cockpit

Taking advantage of this was the reason why I started with the design of extended slats instead of the cockpit.

There are various ways to do this, from building your own to using various Aires or True Details rigging sets. I still had the latter in stock for a Tamiya kit and used them for the project. Starting with the separation of the slats from the plastic and the resin parts from their castings, these steps require great care. After attaching the resin parts to

the plastic wings with super glue, the dry fitting was done with the upper shells of the wings. As expected it turned out that the substructure of the slats had to be lined, which was first done with plastic sheet and then filled with putty.

The effort involved in this work should not be underestimated, because whole projects often fail because of such complex and initially underestimated parts. So if you don't want to have any unnecessary

hurdles when building a model, you should definitely not spoil your pleasure with such parts. On the other hand, you have created an individual model with this effort and after completing this work you can rightly say that you have something special in your showcase. With the joining of the two wing shells this work is finished. Only the trailing edges of the joints on the flaps now require the use of less putty to seal the faulty joints.



Gunsight (called Revi) as well as the radio measuring devices of the FuG218 Neptune can still be seen very well in addition to the rest of the cockpit when installed. The previous effort of this detailing work is all the more obvious here



Often underestimated, the metallic tones of the SuperMetallic range from Mr Hobby are the first choice for me when it comes to creating realistic metallic paints

COCKPIT, GEAR BAY AND BODY SHELL

With the help of a photo-etched parts set, two seats as well as a control stick and the resin Revi16b I upgraded the cockpit a bit, as it is very visible when open. Those who know the models of the '262 know that the cockpit shell also represents the main landing gear bay and that this was well equipped with lines and control elements as well as switch boxes in the original. This is also shown in the etched parts set from Eduard and is therefore of double use.

German cockpits from '41 onwards had RLM66 painted as a glare shield, which looks very dark in 1:48 and swallows up all the details designed in advance. To counteract this I always paint the 'late' cockpits in a mixture of RLM66 and RLM75 to simulate the incidence of daylight. This is rather unusual when the cockpit is not installed, but in my opinion, the effect is much better when the cockpit is installed than with the conventional method.

The installation of the cockpit in the fuselage as well as the assembly of the fuselage shells pose no problems at all. Only the previously refined wing section had to undergo various but marginal adjustments before being assembled with the fuselage. I closed the gap between the fuselage and the upper wing shells with acrylic filler, which has the advantage of not shrinking and can therefore be used ideally for such purposes. ●

After the undercoat in RLM76, several layers of chipping fluid are applied. It is advisable to apply a layer of gloss varnish before applying this fluid



With the completion of the shell, the preparation for painting is initiated. It is particularly important to check the surfaces of the areas to be painted for cleanliness



As usual, I start with the underside colour RLM76. For this as well as for the topsides I use the colour palette of the AK Real Color series, which strongly reminds me of Gunze's Mr. Color



If you want to give the colours a longer drying time, they could be thinned/mixed with Mr Hobby's products without any problems. However, I would like to point out here that the AK RC's are compatible with Mr Hobby products



With the painting of the third tone RLM82 the basic painting of an A-1a would be completed. What follows now is the adaptation work to a B-1a/U1



The irregular fuselage gradient of the colours RLM81/82 is the result of always painting over the standard paint, whereby the hard edges are blurred here. Besides the cockpit area in RLM66, I also refined the transitions to the underside in RLM76



Before the makeshift scarification to the night fighter, the model gets a coat of gloss paint from Gunze to apply the 'A-1a' decals

The paint is now rubbed off with the help of various utensils. It is important to work with a high degree of care, otherwise you run the risk of scratching off the undercoat



The nightfighter paint can be applied in black or, as in this case, in a very dark grey. Dark grey has the advantage that it can be touched up with black oil paint afterwards



FULL-BUILD: WORLD WAR TWO AXIS AVIATION

HOBBYBOSS 1:48 ME262B-1A/U1 ● KIT NO.80379



Camouflaging the topsides, as well as the hull, requires a high level of expenditure, which means that this work takes several days

Additional stains in RLM75, on the other hand, are quickly applied. It is also possible to make various corrections to the paintwork



After completion of the painting work, all surfaces are treated with grey washings. This work is carried out before the protective clear lacquer is applied



The typical identification and serial number for this model is taken from an EagleCals sheet. Compared to the kit decals, these are simply much more accurate and better printed



As can be seen in the pictures, the fuselage had various spots where no stains can be seen. This and the partially fogged markings are the result of the completion of the painting work with RLM76

④ Attaching the front cockpit glazing is an important part of the body work and must be done before painting. The reflex sight, on the other hand, has to be mounted and detailed with a cable before the front glazing is fitted, as it will be impossible or very difficult to handle later on. In the course of this work I mounted more parts from the photo-etch sheet set, as well as made from sheet, on the surface of the cockpit area to continue the level of detail in this area as well. With the assembly of the two engine nacelles of the Jumo 004 we come to the end of the shell work. The visible

areas of the Jumos are given a metallic finish using Mr Hobby Super Metallic paint range before these, along with the remaining parts of the nacelles, followed by final assembly to the model, form the transition to the paint work.

THE FOCUS OF THIS ARTICLE

As mentioned above, the two-seat night fighters of the 10th/NJG11 were originally single-seat A-1a, which makes the design of the visual cover paint clearer. The Me 262A-1a were painted in the colours RLM81/82/76 at the turn of the year 44/45, which

therefore gives me the basis for this project. For the sake of completeness I would like to point out that each model has to be checked for possible defects, sink marks, filler residues or other unclean spots before painting, as these are very difficult to correct after the painting work. With the help of a diagram of the camouflage of the Me 262A-1a, the three colours RLM76, 81 and 82 are painted with AK-Real Colors. The often seen blurring of the colours on the fuselage I implemented with the upper side colours RLM81 as well as 82 after

the basic painting.

As the cockpit was assembled and painted in Berlin, I treated the area of the enlarged cockpit with RLM66 after finishing the base-coat and also made the transitions between the bottom and top colours more pronounced. The decals from the HobbyBoss kit have a slight offset, which leads to resorting to these from Tamiya. However, before applying the decals, a coat of glossy clear varnish is necessary as a base. To show the worn black undersides, typical for night fighters, I use the 'hairspray method' and covered the previously-

Mini Review...



DEF MODEL 1:35 US TANK CREW BOREIGHTING (DF35028)
www.defmodel.com

This set includes a single US tank crewman, standing on an oil drum while using a boreight device on what appears to be an M1 Abrams, although he could be used on any main battle tank. The figure is superbly well detailed with great sculpting; he just needs a tank and a diorama built around him!



The auxiliary tanks and all landing gear doors are treated in the same way as the underside of the aircraft. Here, too, a certain amount of caution applies when removing the black paint.



I prefer to depict oil streaks as well as scratches and abrasion of the surfaces with watercolour wood pencils, as these are very advantageous in handling



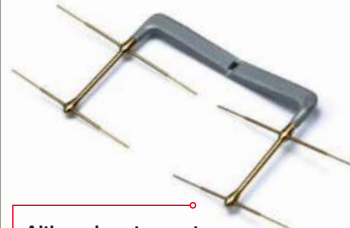
On the other hand, for depicting spilled oil and fuel, as well as areas where dirt accumulates, I mainly use diluted oil paints or, as in this case, ready-mixed products



Finally, the entire model, as well as the already finished add-on parts, receive a coat of matt clear varnish to protect the work previously carried out



The most sensible part of the model to replace are the antennas of the FuG218 Neptune. Master-Model has the perfect solution for this, also in other scales



Although not easy to assemble, there is no way around using this set if you want to display Neptune's antennas correctly



As it can be seen very well, it is advisable to enhance the undercarriage as shown here by means of etched parts, plastic sheet as well as lead wire



The rims get a coat of RLM66 paint, whereas the undercarriage legs as well as the insides of the undercarriage doors are painted with RLM02



The ageing is done after detail painting with acrylic paints with the help of diluted oil paints and a dark wash

painted surfaces in RLM76 with a chipping fluid from AK with the airbrush. The initially painted lacquer (this can be black or dark grey) is first moistened and then rubbed off directly afterwards with a bristle brush, toothpick or blunt blade.

The topsides were painted with light grey shades in RLM76 and 77, very thin and in irregular shapes. This work is a bit more elaborate, as I wanted to stick to pictures of the original as much as possible. Here you can see that the treatment of the two sides differs. It cannot be ruled out that the painting work on this aircraft was done by two people, one on the right and one on the left, because it can be seen that the shape of the spots on the right wing is circular, whereas on the left wing they are elongated. Based on

these findings, the painting was done in the same style, first creating elongated gaps on the left and circular gaps on the right.

To intensify this effect, I added stains in RLM 75 to complete the painting. Before applying the protective gloss varnish, which also serves as a base for the decals, I wash the model in grey tones using ready-mixed washes. It is important not to add too much contrast to the sheet metal joints with the colour tone of the wash, all too often it looks unrealistic when sheet metal joints are shown in black. I took the decals of the Red 10 from EagleCals sheet 48-170, because it contains a correct red/white 10 and the serial number. Furthermore, they are printed very thinly and without offsets, which is

unfortunately not the case with the kit decals. Based on the available pictures, I fogged RLM76 on the markings such as bar crosses and identification to recreate the individual appearance of this machine as well as possible.

LAST BUT NOT LEAST

To complete the model, the add-on parts were now built up and the final ageing of the finished model was done. The distinctive additional tanks, as well as all landing gear doors, are built up from the painting steps, like the undersides. First RLM76 followed by the application of the chipping fluid and rubbing with utensils soaked in water. Streaks, leaking oil and fuel were created with pens and diluted enamel colours, here with a streaking brush. Before

the additional tanks were mounted and to protect the work with the pens and streaking brushes, the model gets its matt final coat. The assembly of the Master-Model Neptunradar FuG218 is a bit tricky and requires a high degree of patience, but compared to the kit part it is much more filigree and in my opinion should definitely be used.

The greatest amount of detailing of the exterior parts was done on the landing gear legs, because especially the nose gear is very visible. Besides etched parts I also used lead wire and plastic sheet to make the obligatory brake lines more realistic. After the colour treatment in RLM02 and 66, the details were painted with acrylic paints and various details are highlighted with oil paints and washes. ●

FULL-BUILD: WORLD WAR TWO AXIS AVIATION

HOBBYBOSS 1:48 ME262B-1A/U1 ● KIT NO.80379

CONCLUSION

In 1:48, this is the only manufacturer to date that gives us modellers the opportunity to build a two-seat version of the Me262. With the utensils shown here, as well as the finishing items, we can see how, with a little more effort, it is even possible to incorporate slats, FuG218 and other details in order to achieve a unique result. Precisely because, not used in masses, coupled with the complex paint scheme, this model has a very special charm and deserves this effort. ●

TECHSPEC...

HOBBYBOSS 1:48 ME262B-1A/U1 KIT NO.80379

Accessories used:

- Quickboost: Bf109G Control Lever (QB48108), German Gunsights Revi 16B (QB48008)
- Eduard: Me 262B-1a Masks (EX451), Me262B-1a S.A. (49705)
- TrueDetails: Flaps and Slats (TD48248)
- Master: FuG 218 NEPTUN (AM-48-028)
- Ultracast: Messerschmitt Me 262 Seats (48131)
- Wire in various thicknesses, injection needles as well as Evergreen and Plastruct profiles

Paints and materials used:

- Colors: AK Real Colors, Mr Hobby
- Washes: AMMO PLW, AMMO Oilbrushers
- Decals: Kit and EagleCals EC#170

Availability:

- Hobbyboss models are widely available from good model shops and online. www.creativemodels.co.uk
- Quickboost: www.quickboost.net
- Eduard: www.creativemodels.co.uk
- www.eduard.com
- TrueDetails: check online
- Master: www.master-model.pl
- Ultracast: www.ultracast.ca

Not to be underestimated is the effect of cockpit canopies painted on the inside, as can be seen very nicely in this picture



The conspicuous additional tanks are put into perspective here and show, due to the abrasion, how badly the undersides were treated provisionally



No less striking and elaborate but thoroughly recommendable is the use of the FuG218 'Neptune Stag's Antlers' from Master-Model



www.creativemodels.co.uk

Model by Wayne Hui

Model by Jeremy Moore

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FULL-BUILD: WORLD WAR TWO AXIS ARMOUR
TAMIYA 1:35 SD.KFZ.139 MARDER III ● KIT NO.35248





DIAL **M** FOR **MARDER**

Costantino Sanna makes some small but highly effective improvements to Tamiya's 1:35 Sd.Kfz.139 Marder III, twenty-one years old this year!

The need to quickly attain a tank destroyer capable of opposing the powerful Soviet tanks prompted the German army to exploit various hulls of old and obsolete vehicles and install Pak anti-tank guns. The Panzer 38(t) was one of these. The turret, armed with a 37mm gun, was outdated, while the excellent hull on which the anti-tank cannon was installed, the 7.62cm PaK36(r) ('r'; russische or 'Russian'), derived from 76.2mm M1936, subsequently, the 7.5cm PaK 40/3, keeping the ZB-53 Czechoslovak hull machine gun (MG37(t) for the Germans). The 'Marder' series of tank destroyers thus proves to be a surprisingly effective combination of speed and firepower. However, their armour left much to be desired.

The Marder III had its baptism of fire in Tunisia, when the battle was now coming to an end. Despite the power of the main gun, these vehicles were often prey to ambushes by the infantry. It was a compromise solution and, once all the Panzer 38(t) hulls were diverted to the construction of the Hetzer tank destroyer, the Marder II was preferred as a similar model. The production of the two types, armed with the PaK36(r) or the PaK 40/3, started in 1942 and ceased in the summer of 1944 after the production had reached about 1,100 units. The hull of the Pz.38(t) would remain in production for the Hetzer tank destroyer. ▶

❶ CONSTRUCTING AND UP-DETAILING THE MARDER III

To increase the realism of this model, I replaced the plastic parts that looked too thick with others in photo-etch and resin from Royal Model's set (**pics 1, 2**). To detach the photo-etch parts from their fret, I recommend using a hard base, in this case a glass plate (**pic 3**). For stronger joints, where possible, I recommend soldering the photo-etch parts together. The gun barrel is an aluminium item by Jordi Rubio (**pic 4**). The muzzle-brake is the plastic part from the Tamiya kit, because it is more accurate in shape.

The tracks are by Friulmodel (**pic 5**) and to be able to fit them properly, it is necessary to widen the two halves of the idler wheel by adding a shim of plastic card (**pic 6**). I used the blade of a cutter to thin the edges of armour panels, to improve their appearance (**pic 7**). To replicate characteristically rusty texture of the muffler, I made a paste using Squadron Putty diluted with acetone and applied it with an old brush (**pic 8**).

To replace the plastic basket supplied by the Tamiya kit with a more realistic and correct one, it was necessary to use shaped pieces of 0.6mm copper rod, soldered together. To weld copper easily, it is necessary to use flux paste (**pics 9, 10, 11, 12, 13, 14**). For a small touch of added realism, I drilled out the tip of the bow machine gun with a fine drill bit (**pic 15**).

Here, we see the hull and gun deck of the Marder III with various add-on items; spare track links, fire extinguisher, Bosch headlight, new barrel-cleaning rods plus various hinges and tie-down loops (**pic 16**). Tamiya's PaK40 is basically excellent and only a few details were added (**pic 17**). The model – minus running gear – has been up-detailed and is now ready for paint and weathering (**pic 18**). ▶



SCANIA S730 HIGHLINE 4x2

1:24
scalascale



Model Kit Features

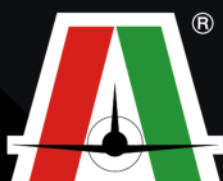
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- Openable radiator grill
- New side skirts, spoilers, tanks and exhausts

- Chromed adhesive
- Photo etched parts
- Rubber tyres
- Decals sheet for Special Edition Scania V8 50th Anniversary
- Reclining cabin

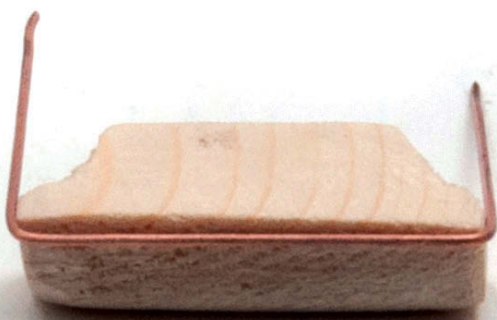


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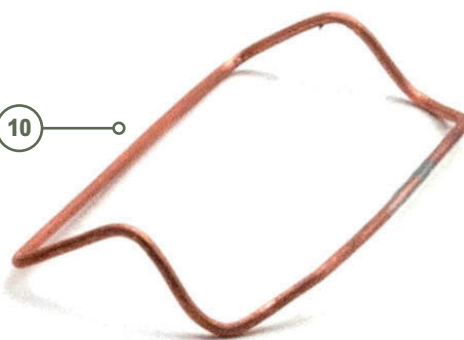

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FULL-BUILD: WORLD WAR TWO AXIS ARMOUR
TAMIYA 1:35 SD.KFZ.139 MARDER III ● KIT NO.35248

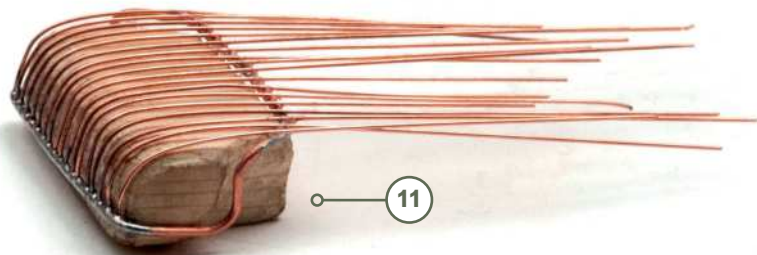
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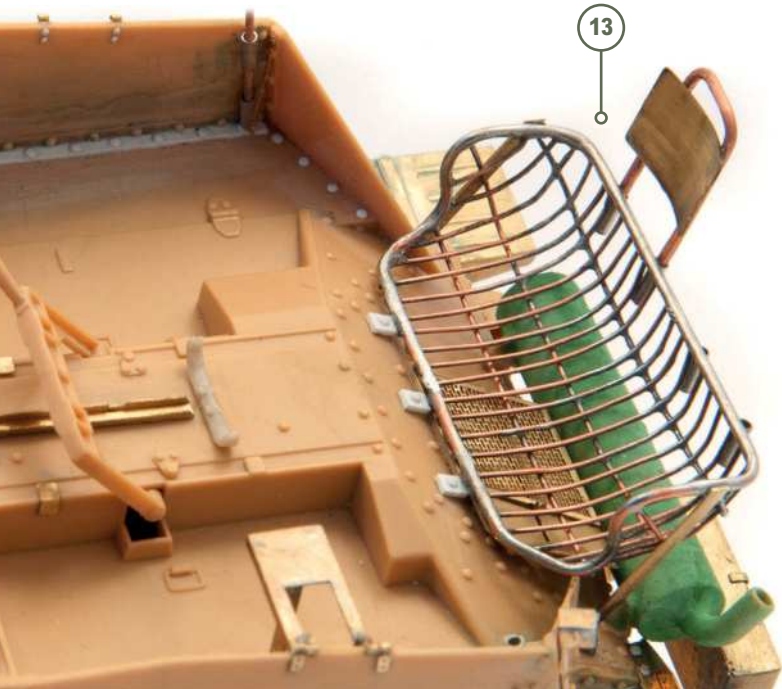
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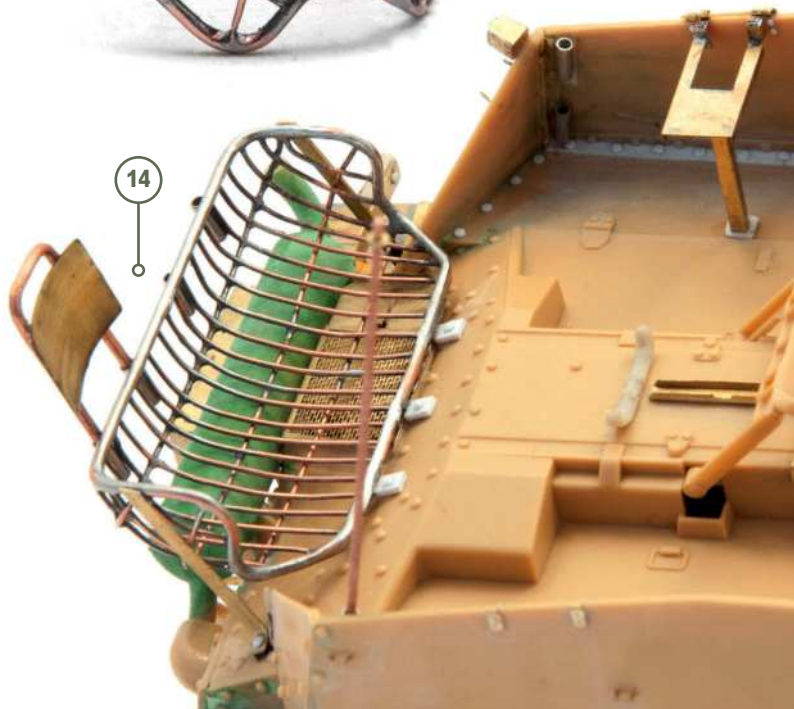
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14



Mini Review...

**YAHU MODELS 1:48 O-2A SKYMASTER
 EARLY (YMA4899) FOR ICM**
www.yahumodels.com

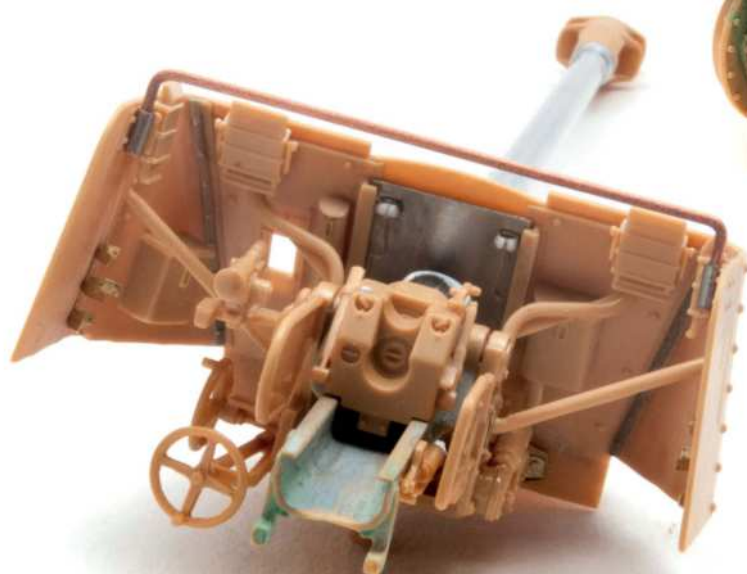
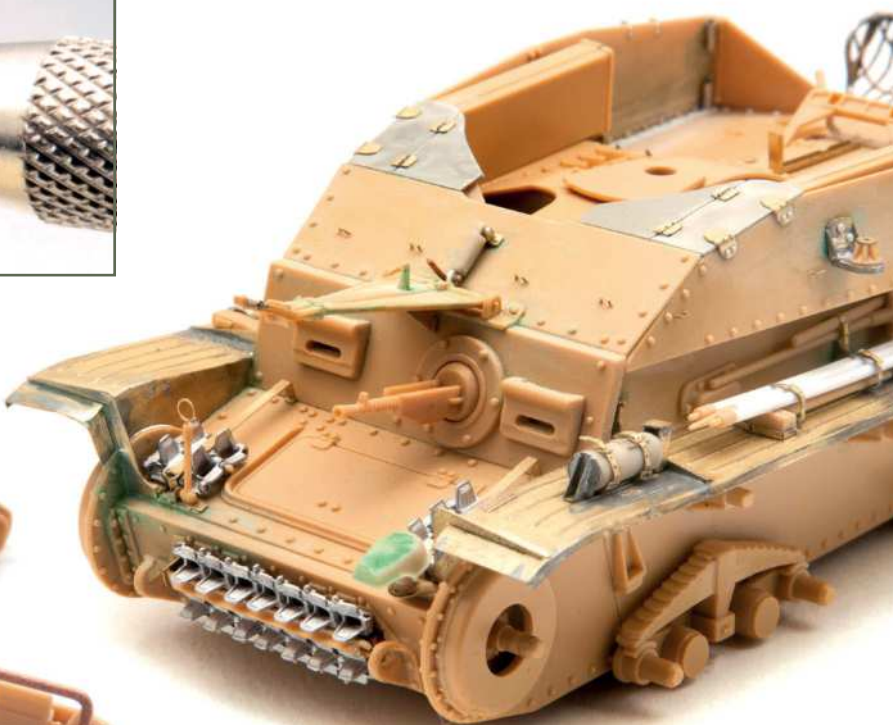
ICM's superb 1:48 of the Cessna O-2A observation aircraft is the proud recipient of this exquisite instrument panel from Yahu Models of Poland. It is made the 'analogue' way from layers of photo-etched brass with acetate dials which offer extremely high levels of resolution and are superior to 3D-printed productions in many ways; it just needs a few knobs and switches adding from; www.anyz.io/shop





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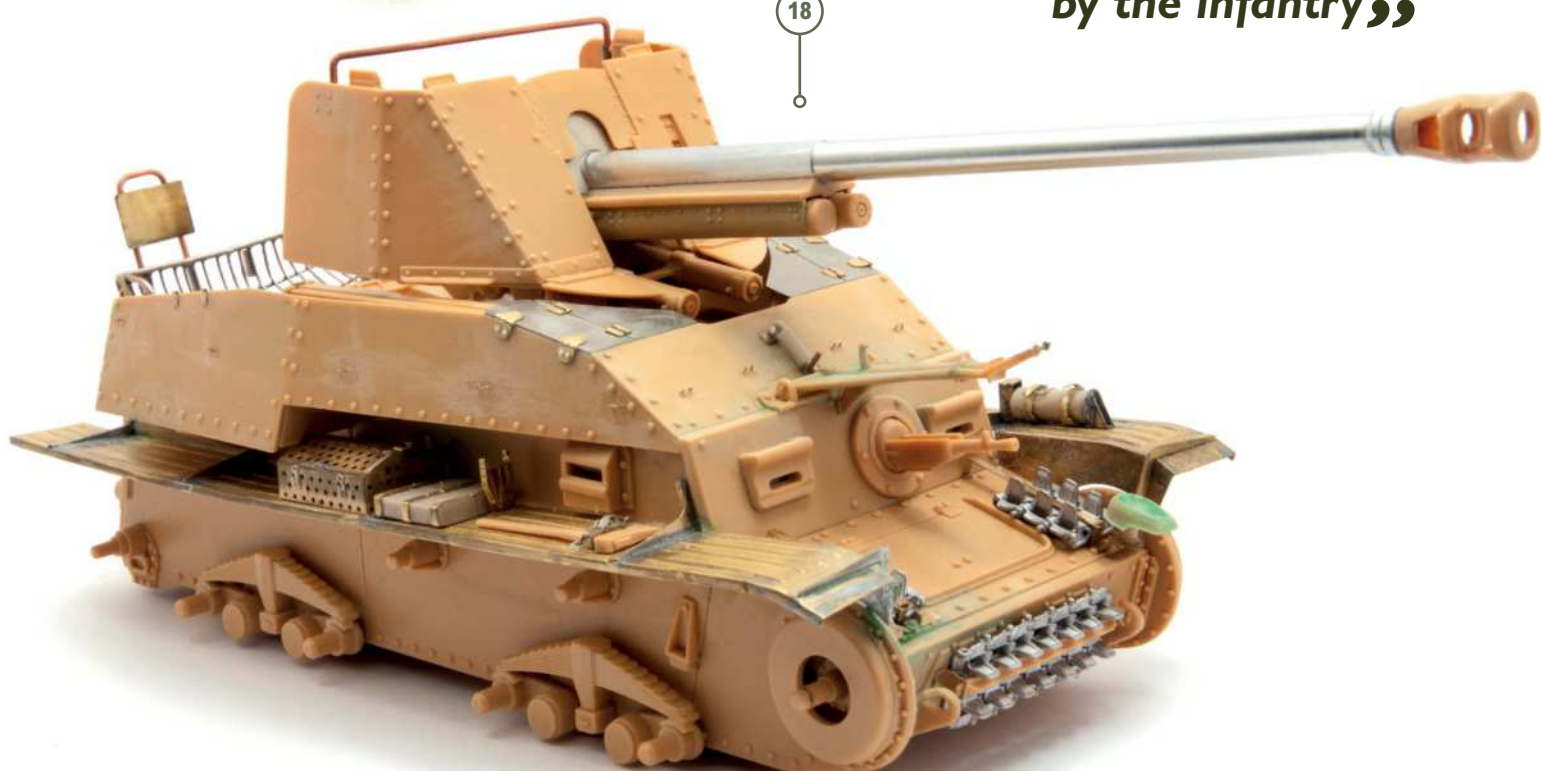
16



17

“The Marder III had its baptism of fire in Tunisia, when the battle was now coming to an end. These vehicles were often prey to ambushes by the infantry”

18



PAINTING THE MARDER III

All the Marders that arrived in Africa had a basic colour of panzer grey which was then covered for camouflage reasons with the DAK yellow sand, in this case the RAL 8000. After the usual washing of the entire model with lukewarm water and dishwashing detergent, I applied Mr Hobby's Metal Primer to the photo-etched parts and the aluminium barrel (pic 19). As usual, I always start with a coat of airbrushed primer, in this case Vallejo black (pic 20).

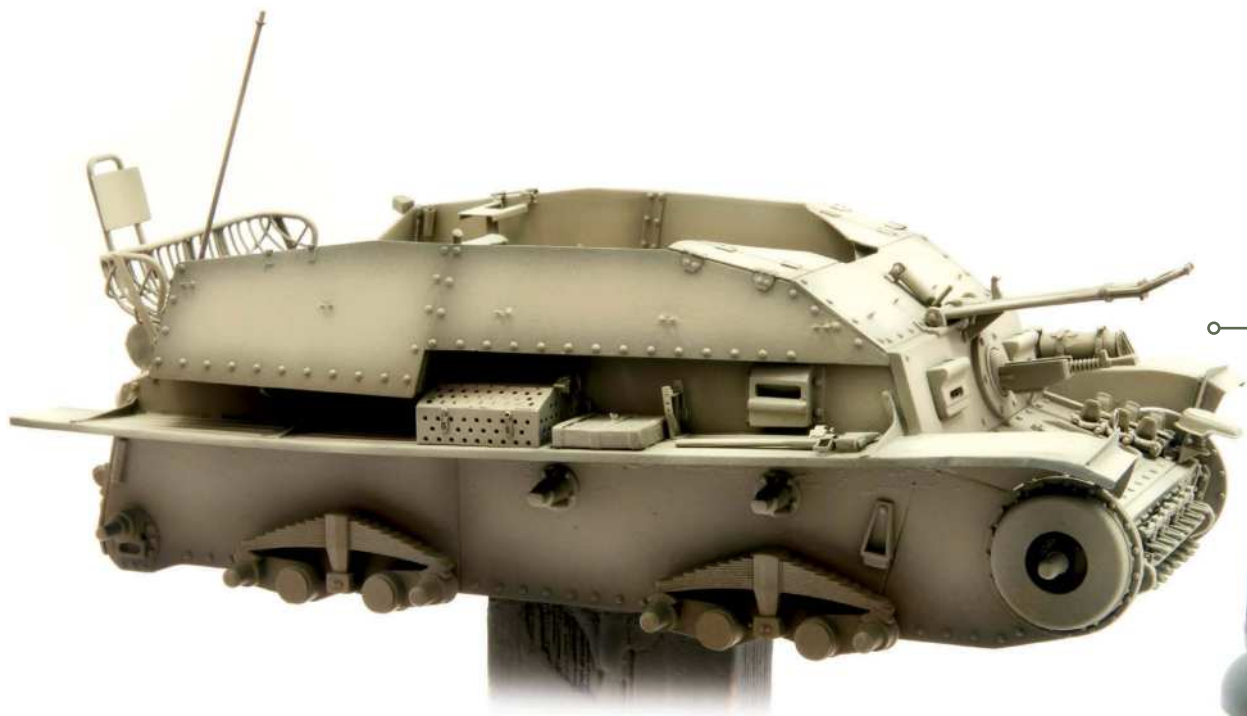
With the German Yellow Brown (71.272) RAL 8000 of the Vallejo applied by airbrush, I covered the whole model with a light coat of colour, not lingering too long on the shaded areas of the model (pic 21). Gradually adding white (71.132) to the base colour in several stages, I lightened the central parts of the panelling of the model (pic 22).

Finally adding small doses of white to the previous mix, I created the maximum lights to the central areas of the panels (pic 23). To create more contrast, I laid a coat of Panzer Gray (71.056) in the contours of the panels, adding a few drops of Glaze Medium to the colour, so he work was more manageable (pic 24).

The Balkenkreuze are dry transfers, by Archer Fine Transfer (pics 25, 26). All bolts, panelling lines and other details were highlighted with the oil paint 'Cassel Earth' diluted with white spirit (pic 27). Using a sponge, I reproduced the residues of Panzer Gray camouflage; it is best to concentrate in the areas most exposed to wear and the trampling of the crew. To do this I used a Lifecolor grey that has a very matt finish (pic 28).

By brush I created some scrapes and improved the shape of the sponged-on patterns (pic 29). The Buff (70.976) of Vallejo formed the basis for the wooden parts. Sounds cool! (pic 30). To reproduce the wood grain I used a mix of Burnt Sienna and Raw Umber oil colours. By varying the quantities of the two colours, various shades of the final colour can be obtained (pic 31). ●

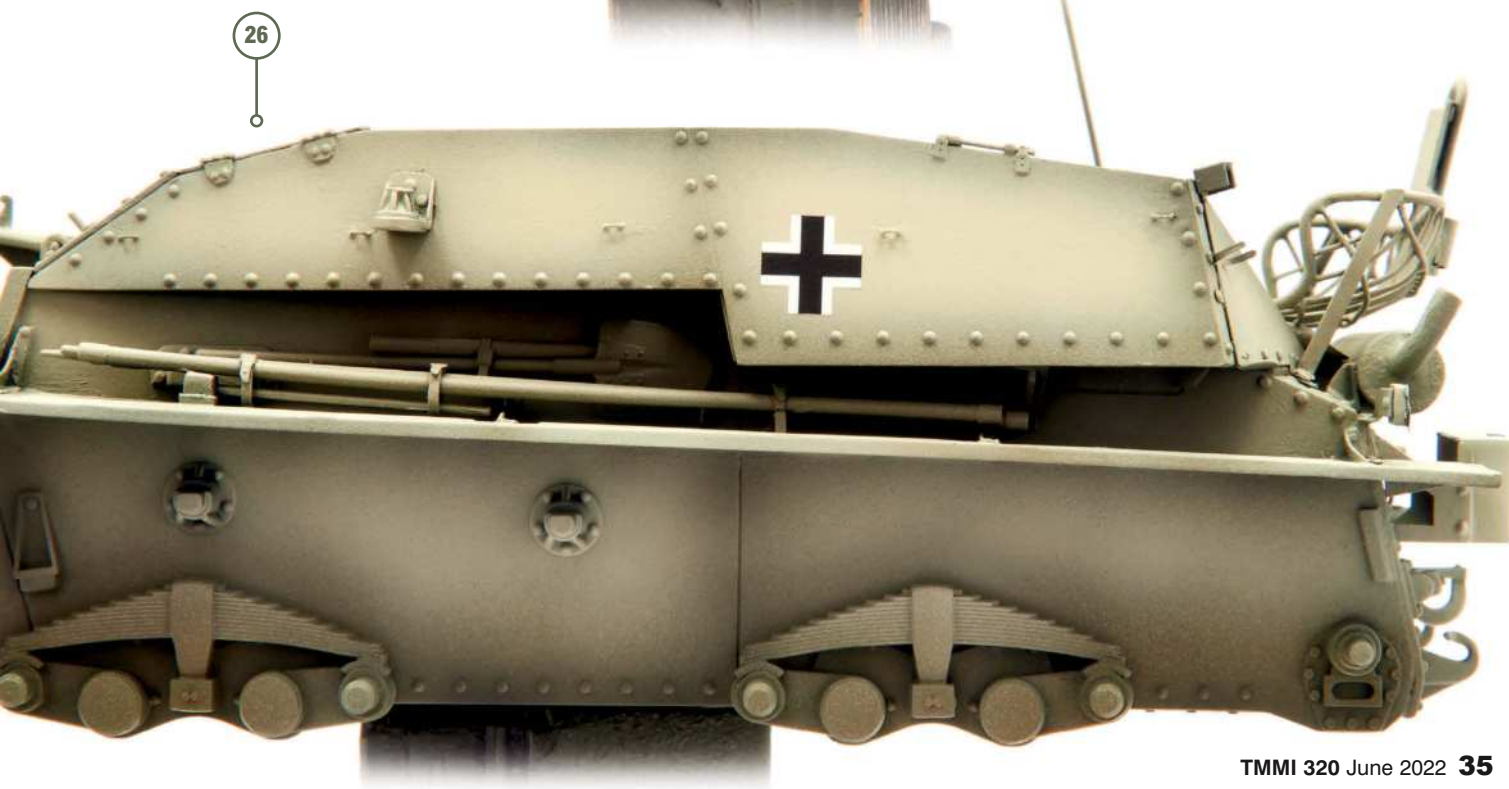




24



25



26

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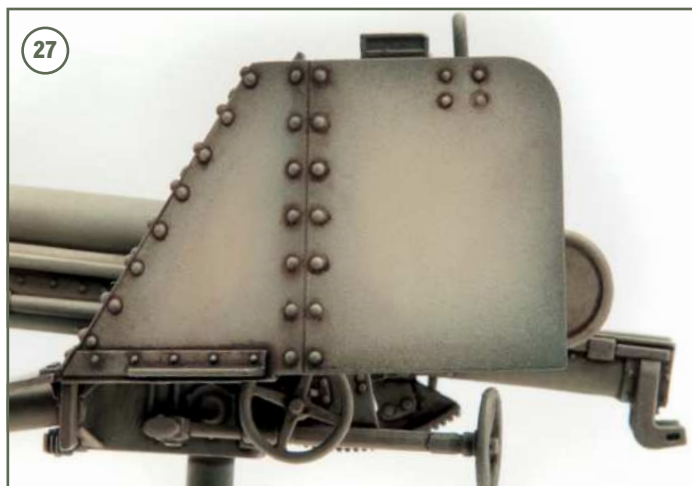


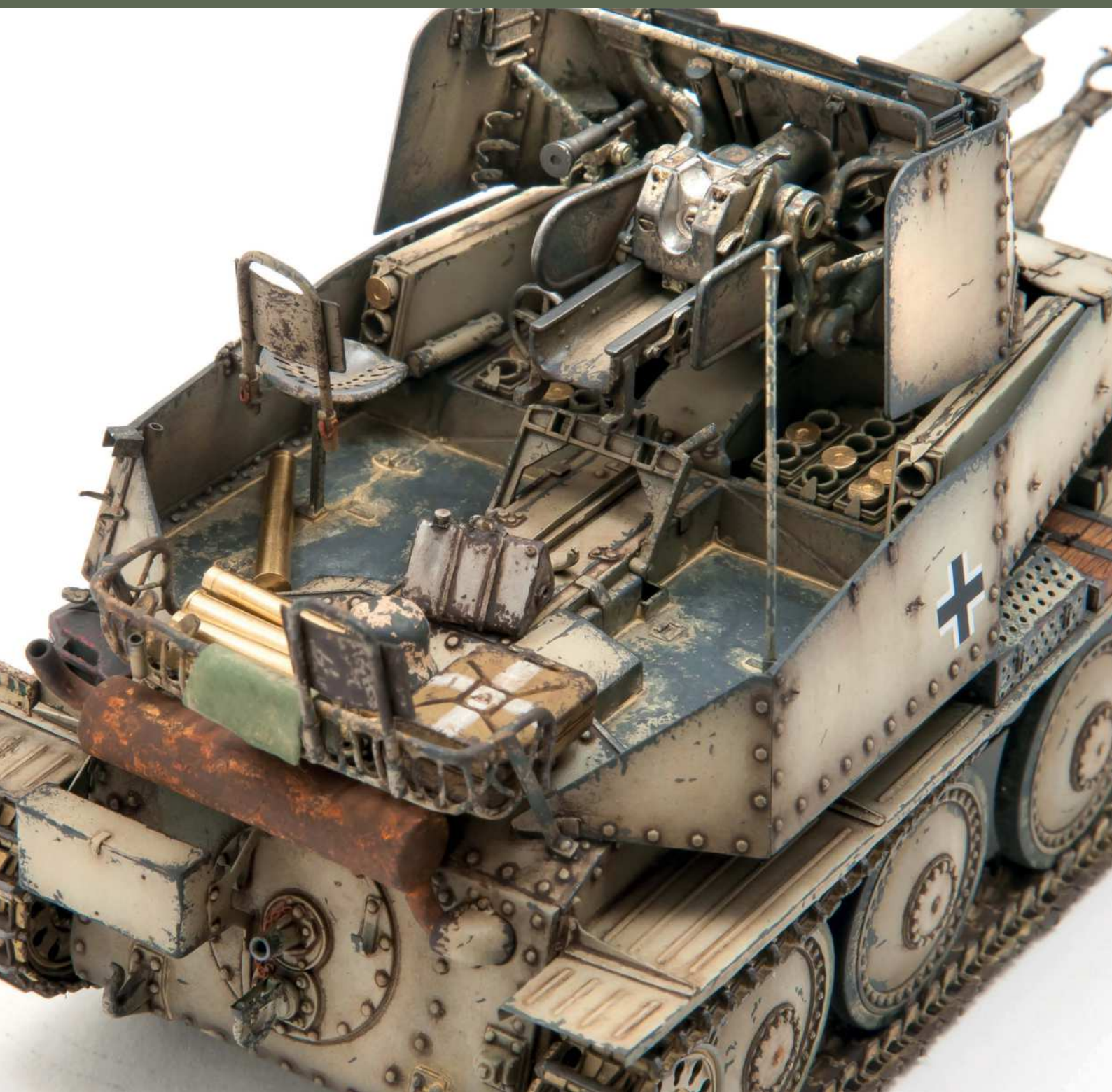
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FULL-BUILD: WORLD WAR TWO AXIS ARMOUR
TAMIYA 1:35 SD.KFZ.139 MARDER III ● KIT NO.35248





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BAL72211 A-4C conversion (Airfix kit)

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BAL48133 AIM-9X (2pcs)

BAL48134 MKXVII Depth Charge

BAL48135 F/A-18 Wheels

BRENGUN 1/32 -accessories

BAL32040 AGM-45 Shrike

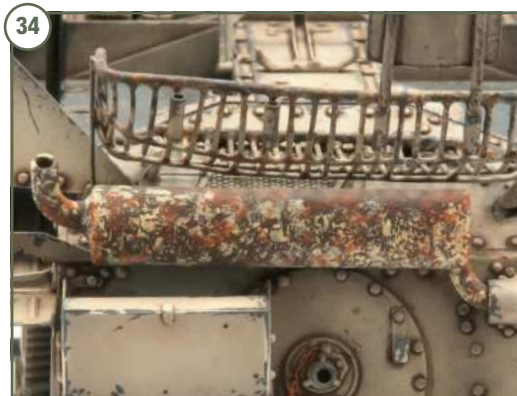


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❶ EXHAUST

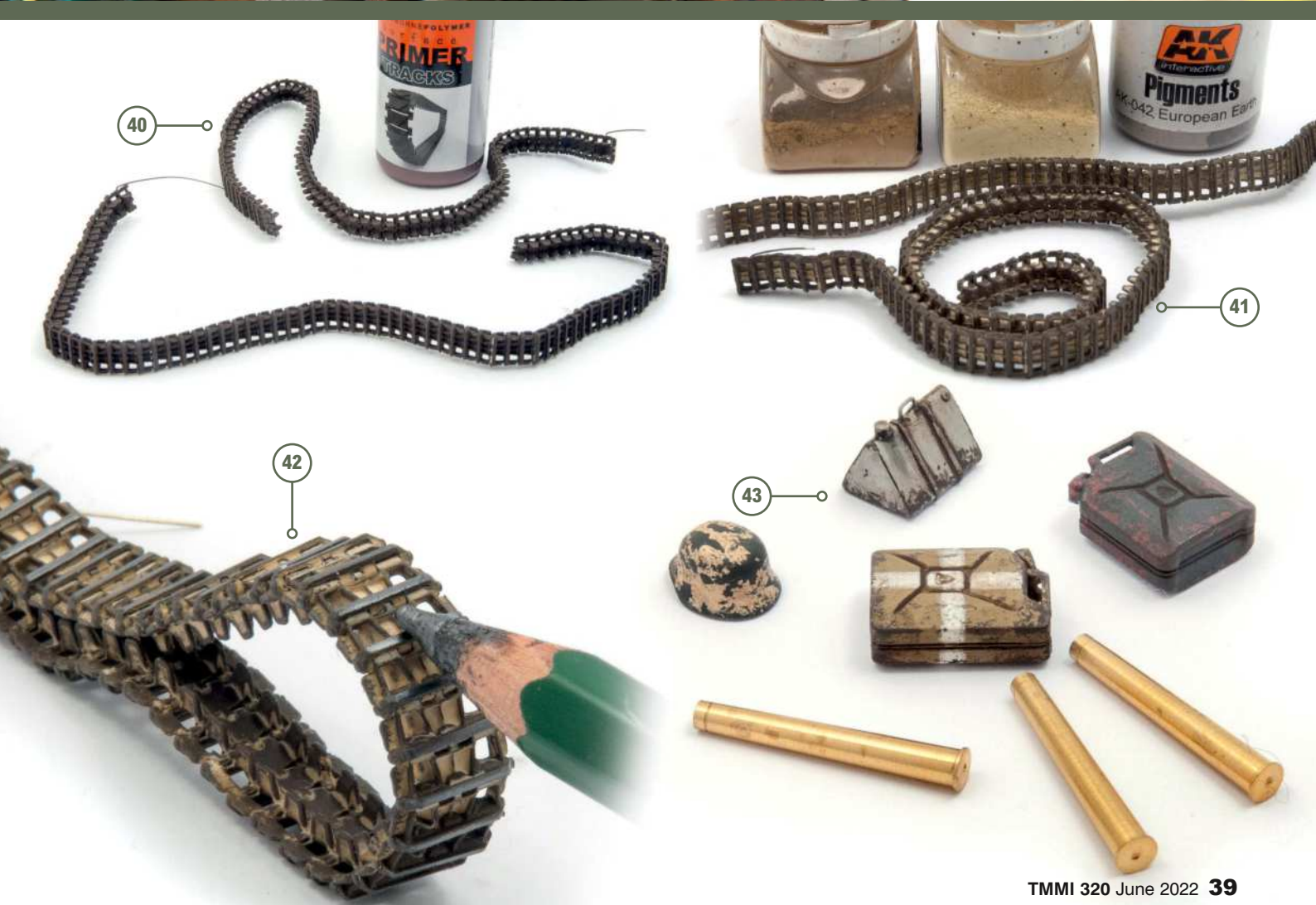
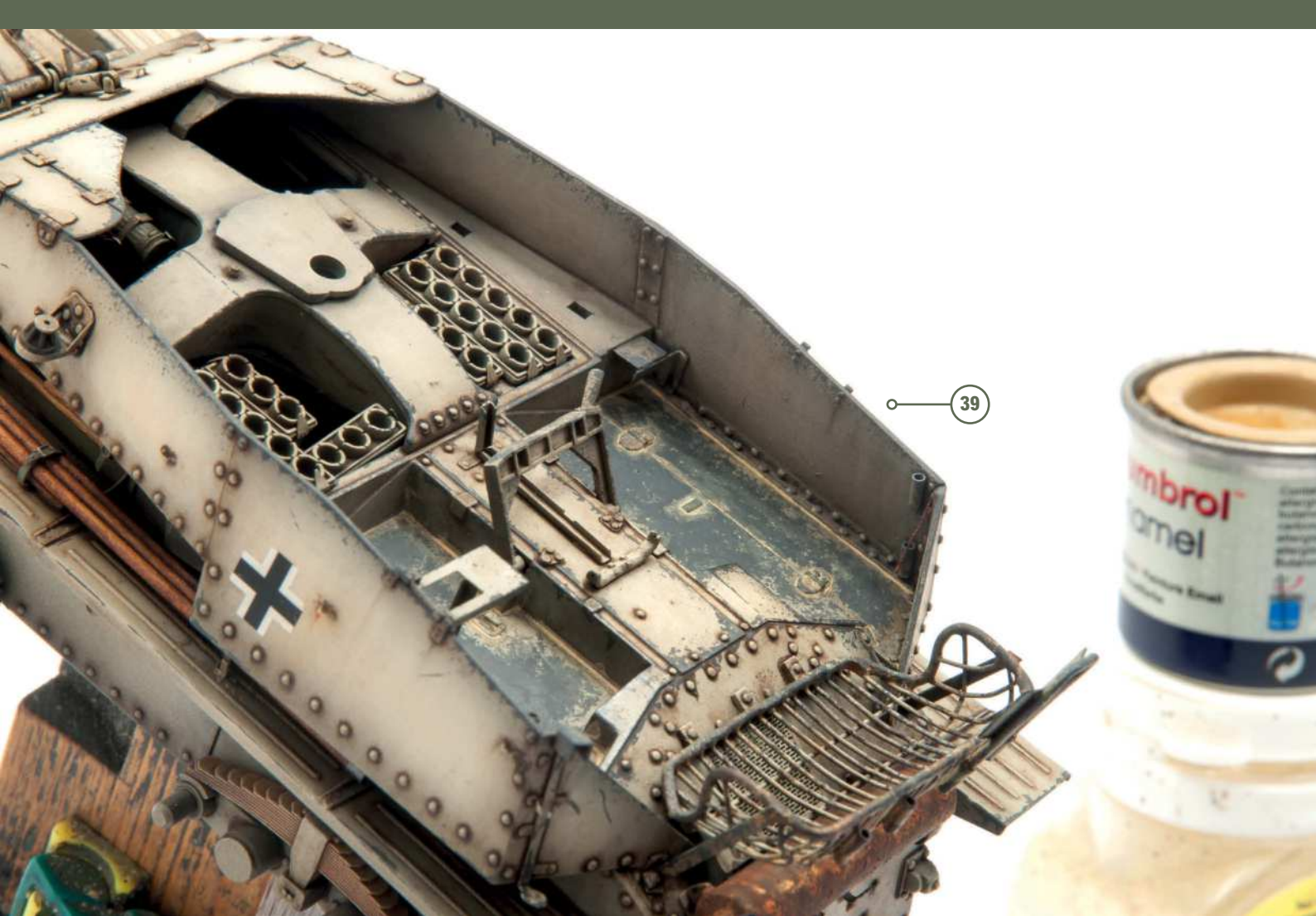
The muffler received a coat of Track Primer from AK Interactive (**pic 32**) and with the help of a sponge I applied the first colour of yellow sand, then followed by various rust tones of the Lifecolor series, finally mixing pigments and various rust-coloured oil paints I applied a colour-wash to amalgamate everything (**pic 33, 34, 35, 36, 37**). After having coloured the bow machine gun in the hull in a dark brown colour with the Dark Steel pigment, I simulated the characteristic tones (**pic 38**). The accumulations of dust in the recesses were made with selective washes, mixing a dust-coloured Humbrol Enamels and a pigments, also sand-coloured. By diluting the compound with white spirit, I carried out specific washes and after waiting for the colour to dry, I eliminated any excess with clean white spirit. It is good not to overdo this effect, to avoid flattening the finish of the whole model (**pic 39**).

For the painting of the tracks I started with a primer with the AK primer tracks (**pic 40**) and then, using very 'dry' colours I applied different types of pigments which I then diluted with white spirit (**pic 41**). The final touch was made by polishing the treads using a soft pencil (**pic 42**). The various accessories were painted individually and then positioned on the model. The cases are in turned brass from RB Models (**pic 43**). The processes described above were repeated to accentuate certain effects, for example I gave some areas oil-paint colour-washes to accentuate the shaded areas and increase the contrast, and I carried on making paint scratches. And there it is, after twenty-one years, Tamiya's Sd.Kfz.139 Marder III can still look superb! ●



38





FULL-BUILD: WORLD WAR TWO AXIS ARMOUR
TAMIYA 1:35 SD.KFZ.139 MARDER III ● KIT NO.35248



“The need to quickly attain a tank destroyer capable of opposing the powerful Soviet tanks prompted the German army to exploit various hulls of old and obsolete vehicles...”



TECHSPEC...

**TAMIYA 1:35 SD.KFZ.139 MARDER III
KIT NO.35248**

Materials:

Injection-moulded polystyrene, polycaps, waterslide decals

Paints used:

- Vallejo Acrylics: German Yellow Brown 71.272, White 71.132, Panzer Gray 71.056, Buff 70.976

- AK Interactive: Track Primer

Accessories used:

- Royal Model: Photo-etched and resin detail set (261)

- Jordi Rubio: 7.62cm PaK36(r) L/51.5 aluminium barrel (TG-50)

- Friulmodel: Track set (ATL-13)

Availability:

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

The kit featured here is out of production; please check online for availability.

- Royal Model: www.royalmodel.eu

- Jordi Rubio: www.jordirubio.com

- Friulmodel: www.friulmodel.hu

- Vallejo Acrylics: www.creativemodels.co.uk

- AK Interactive: www.ak-interactive.com

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Avia S-199
in Czechoslovak
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service

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MEZEK



S-199.285, CPL Josef Jiroušek, No. 1 Squadron, Aviation Regiment No. 8, Brno-Černovice, Czechoslovakia, July 25, 1949



S-199.486, Lt. František Fořt, No. 1 Squadron, Aviation Regiment 7, Brno-Černovice, Czechoslovakia, 1950



S-199.54, Sgt. František Novák, Fighter Training Center, No. 2 Squadron, Aviation Regiment 4, May, 1948



S-199.7, Ivan Pavel, Air Military Academy, Hradec Králové, Czechoslovakia, March 17, 1950



S-199.210, Aviation Regiment 5, Dobruška (Líně) AB, Czechoslovakia, 1950



S-199.310, PFC Josef Mucha, Aviation School Regiment 5, Zvolen, Sliač AB, Czechoslovakia, August, 1952



S-199.340, Lt. František Kratochvíla, No. 3 Squadron, 51 Aviation Regiment, Mladá, Czechoslovakia, July 1952



S-199.531 Lt. Václav Dvořák, No. 2 Squadron, Aviation Fighter Regiment 3, Brno-Černovice, Czechoslovakia, April 5, 1953



S-199.178, Police Air Patrol, Praha-Ruzyně, Czechoslovakia, December, 1948



S-199, D-106, Modi Alon, 101 Squadron (tajeset), Cheji ha-avir, Aqir, Israel, June 4, 1948



S-199, D-117, 101 Squadron (tajeset), Cheji ha-avir, Herzliya, Israel, July-August 1948



S-199, D-123, 101 Squadron (Tajeset), Chel Ha Avir, Hatzor, Israel, October, 1948

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EDUARD, CZECH REPUBLIC

www.eduard.com www.creativemodels.co.uk

Eduard's own 1:48 Mitsubishi A6M2 Zero Model 21 gets a full resin cockpit this month thanks to an amazing new Brassin pack that provides a new cockpit 'core' of floor, rear bulkhead and sidewall braces, with cast-in rudder bar and pedals, control column rod and numerous cable conduits. Supplementing this are Brassin sets for the exhaust outlets, machine guns and folding wingtips, plus a photo-etched set for the bells-and-whistles treatment.

Tamiya's 1:48 F-14A 'late' that comes with a carrier deck sheet and figure receives photo-etched upgrades and 'SPACE' 3D decals, as does Revell's new 1:48 SR-71A Blackbird and ICM's 1:48 OV-10A Bronco.

648692



1:48 BRASSIN RESIN AND PHOTO-ETCHED METAL DETAIL SETS

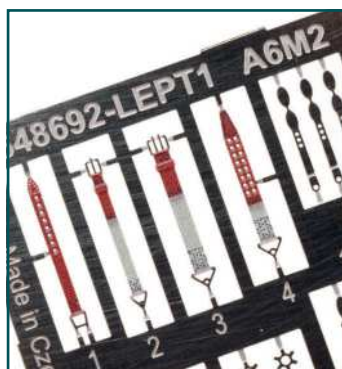
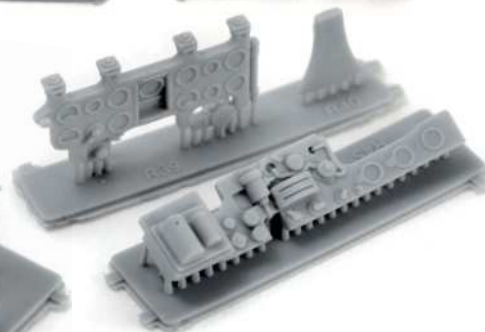
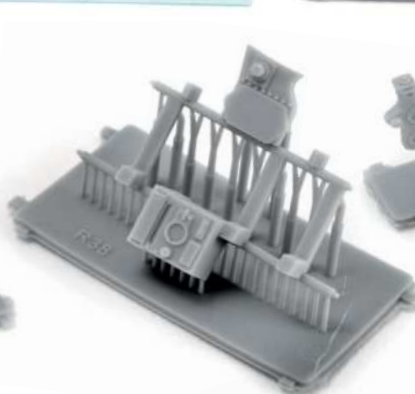
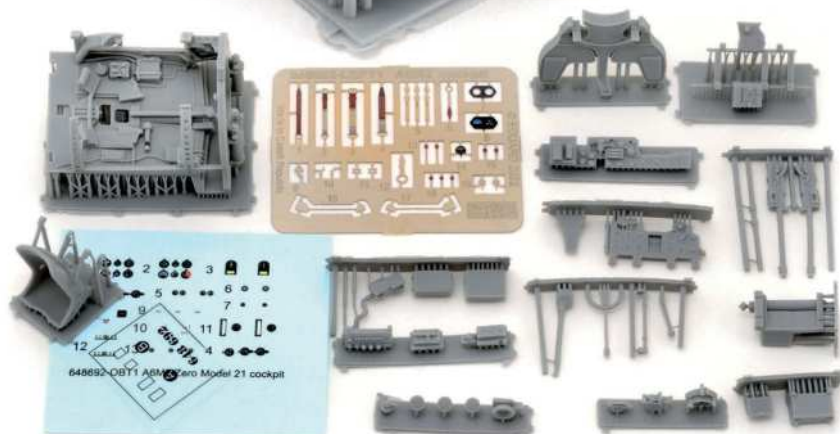
- A6M2 Zero Model 21 cockpit (648692) for Eduard
- A6M2 cannon barrels and cockpit guns (648723) for Eduard
- A6M2 Zero exhausts Print (648722) for Eduard
- A6M2 Zero landing flaps (648794) for Eduard
- A6M2 Zero Lök (644134) for Eduard
- A6M2 Zero Model 21 folding wingtips (648731) for Eduard

1:48 PHOTO-ETCHED BRASS SETS

- A6M2 Zero (481077) for Eduard
- SR-71A interior (491251) for Revell
- OV-10A (491240) for ICM
- F-14A Tomcat late exterior (481075) for Tamiya
- F-14A Tomcat late interior (491239) for Tamiya

1:48 SPACE SETS

- SR-71A interior (3DL48059) for Revell
- OV-10A (3DL48058) for ICM
- F-14A Tomcat late (3DL48057) for Tamiya



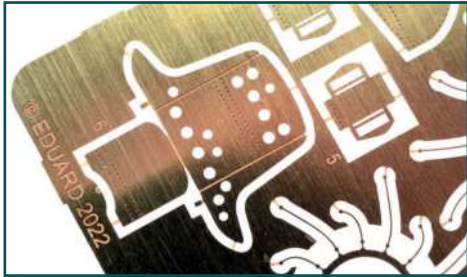
Accessories

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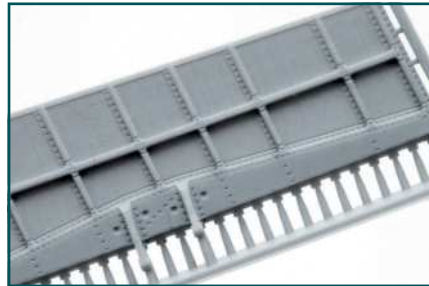
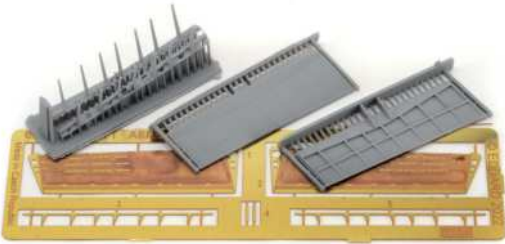
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648723



648724



644134



648731



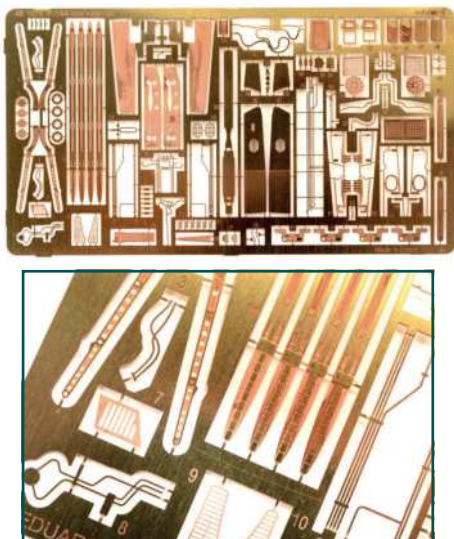
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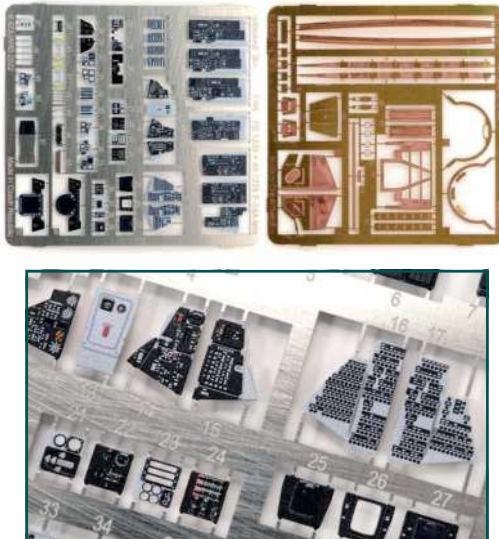
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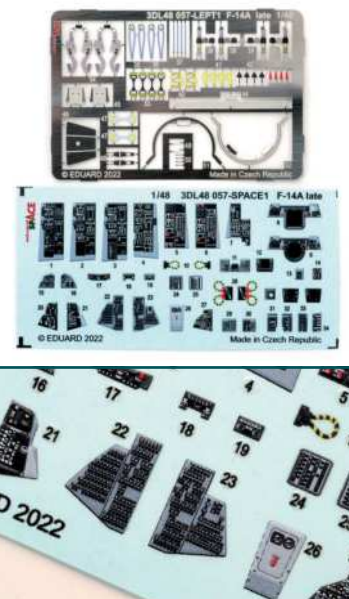
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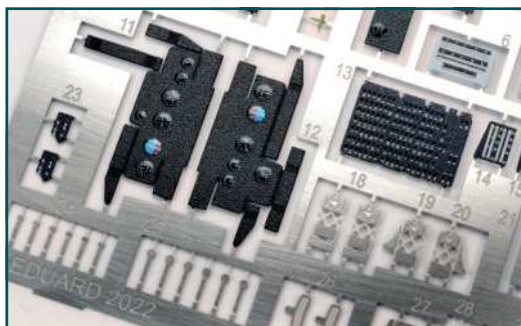
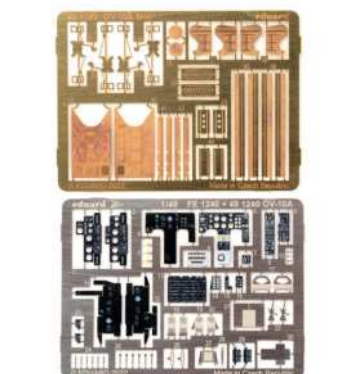
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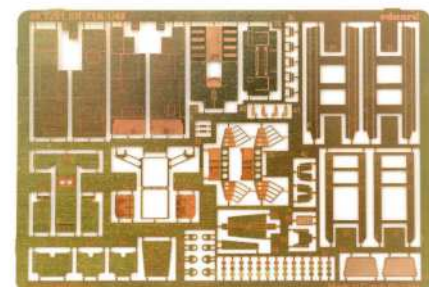
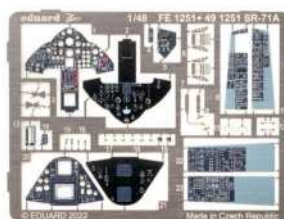
3DL48057



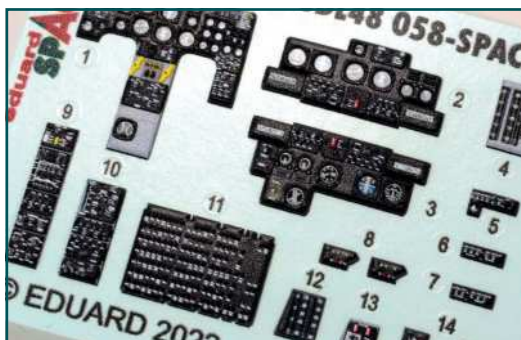
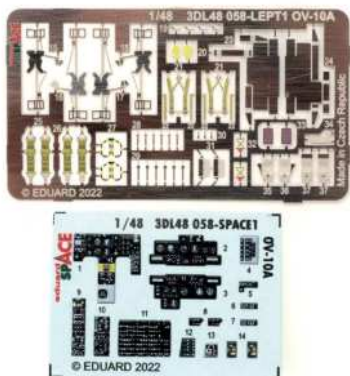
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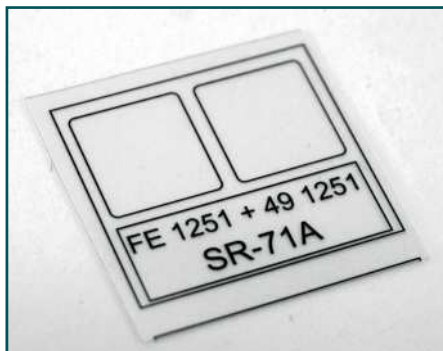
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3DL48058



3DL48059



Accessories

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MINIART, UKRAINE

www.creativemodels.co.uk

New items from MiniArt include a set of World War Two Allied mine detection gear, which provides ground-scanners of various designs, headphones, satchels and sing posts. From the other end of the 20th century we have a set of civilian roadsigns from the 1990s conflict in the Balkans; both sets are great for dioramas.

1:35 INJECTION-MOULDED ACCESSORY SETS

- Allied Mine Detection Equipment (35390)
- Traffic Signs Yugoslavia 1990's (35643)

35390



35643



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 CHAIN, **MMA**; MACHINED METAL ALLOY, **MR**; METAL ROD, **MW**; METAL WIRE, **MT**; METAL TUBING, **NM**; NYLON MESH, **PE**; PHOTO ETCH, **PEBM**; PHOTO-ETCHED BADGES/MIRRORS,
PCM; PRE-CUT MASKS, **PMP**; PRE-ASSEMBLED METAL PARTS), **PS**; PAPER STRIP, **R**; RESIN, **SVT**; SOFT VINYL TYRES (OR TUBING), **VF**; VINYL FIGURES, **VFP**; VACUUM FORMED (PLASTIC),
WC; WOVEN CORD, **WD**; WATERSLIDE (DECALS), **WS**; WOODEN STRIP

DEF MODEL, KOREA

www.defmodel.com

Italeri's and 'I Love Kits' 1:35 models of the vast US 'Big Foot' truck receive two new sets of weighted resin wheels/tyres and Revell's 1:35 Fuchs APC (marked 'ABC' on the boxes) are upgraded, also with two sets of different designs of wheel and tyre. As always, all are endowed with finely cast sidewall info, accurate tread patterns and sharp wheel-nut detail. mild degree of weighted 'sag' features in all tyres, just enough to look convincing.

1:35 RESIN WHEEL SETS

- M923A2 Big Foot truck Michelin XL sagged wheel set (DW35130) for I Love Kit, Italeri
- M923A2 14.00R20 Goodyear AT-2 sagged wheel set (DW35132) for I Love Kit, Italeri
- TPz-1 Fuchs ABC Michelin XL sagged wheel set 1 (DW35128) for Revell (close-up, right)
- TPz-1 Fuchs ABC Continental sagged wheel set 2 (DW35129) for Revell



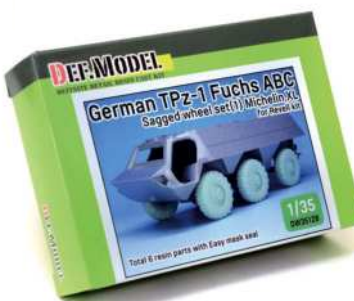
35130



35132



35128



35129



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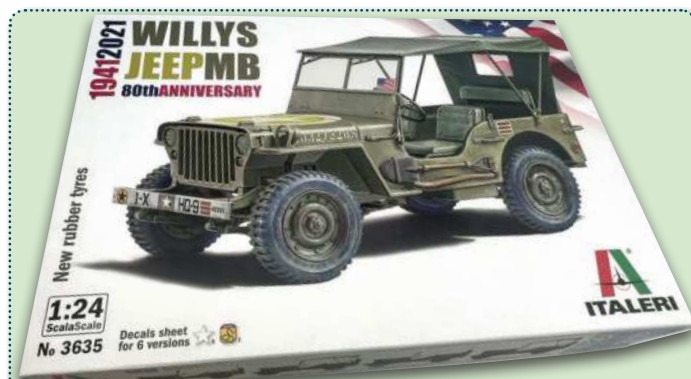
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ITALERI, ITALY

WILLYS JEEP MB, 80TH ANNIVERSARY 1941-2021

www.hobbyco.net

SCALE: 1:24 • MATERIALS: IM, WS • ITEM NO.3635

The Willys Jeep needs no introduction and this iconic light truck was first produced by Italeri in 1:24 back in the 1980s. There have been several re-boxings of the basic kit over the years, and this latest version is aimed at celebrating the 80th anniversary of the first jeep production.

These vehicles were extensively used in every theatre of combat in WW2 and post-war, giving the modeller endless opportunities for this kit. The Italeri model is extremely good overall, with occasional moulding pin marks to remove and some minor sink marks on the chassis. However, there is a good representation of creases and texture on the seats, and a canvas tilt is provided. The plastic tyres let the old kit down, but this new release has added soft plastic tyres which are an excellent solution, giving perfect tread and sidewall details. In a few places, Jeep experts may wish to thin down mouldings (eg. the bumperettes) or improve details (eg. the tilt creases and supports), but the basic kit makes up very well from the box and looks the part. This special release comes with decals for six vehicles (five US, one Brazilian), but this Jeep kit would look great in a huge range of different schemes, as the Jeep was also used in Commonwealth and Soviet armies, and remained in service for a long period. The age of the original Italeri kit is not an issue, as it holds up very well against more modern releases. **CLS**

+ Simple assembly to create an accurate model of the famous Willys Jeep

- A few parts would benefit from improvement, as in the tilt creases



ICM, UKRAINE

G7117 WITH WW2 SOVIET DRIVERS

www.icm.com.ua

SCALE: 1:35 • MATERIALS: IM, WS
ITEM NO.35594

The Chevrolet 1½ ton truck was extensively used by some parts of the US military services, but a big proportion of the production of this truck was sent via Lend-Lease to other combatant nations. In particular, the Soviets received a large number (60,475), and these trucks were much appreciated as they were comparable to the GAZ-AA in payload, but featured four-wheel drive and much more comfort. ICM have already produced several versions of the Chevrolet, and this latest kit of the G7117 features a canvas tilt for the rear, a winch at the front, and two Soviet driver figures. As always with ICM, the kit is very good quality, and is a relatively easy kit to assemble. The large majority of these trucks on the Eastern Front had a wooden rear body, but the canvas tilt covers much of the steel body provided. The kit includes decals for one version of the truck with Soviet codes, and one version with US registration numbers, which should be in white by 1944. Both versions would remain in US Olive Drab colour, as the trucks were not repainted in Russian service. The kit offers the option to open the doors, have the rear body open or covered, and this truck would look great full of cargo. Overall, a super kit by itself or a really nice addition to a diorama on the Eastern Front, pulling a light trailer or loaded with Russian troops. **CLS**

+ A very attractive light truck, used extensively by USSR late in WW2

- Some minor shape issues with the cab and bonnet may worry purists



ED PLASTIC SECTION, F; FABRIC, IM; INJECTION MOULDED (PLASTIC), ITL; INDIVIDUAL TRACK LINKS, LC; LIQUID CEMENT, LCC; LASER CUT CARD, LLT; LINK AND LENGTH TRACKS, MC; METAL CHAIN, MMA; MACHINED METAL PARTS), PS; PAPER STRIP, R; RESIN, SVT; SOFT VINYL TYRES (OR TUBING), VF; VINYL FIGURES, VFP; VACUUM FORMED (PLASTIC), WC; WOVEN CORD, WD; WATERSLIDE (DECALS), WS; WOODEN STRIP



EDUARD, CZECH REPUBLIC A6M2 ZERO TYPE 21

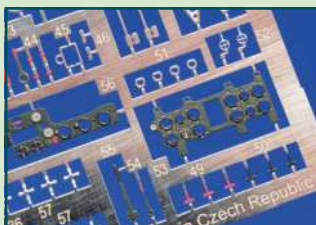
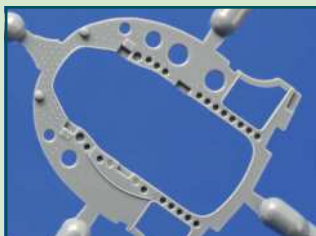
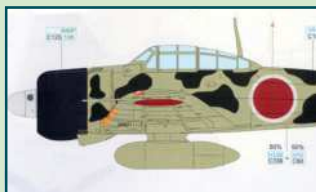
www.eduard.com www.creativemodels.co.uk

SCALE: 1:48 • MATERIALS: IM, PE, PCM, WS • ITEM NO.82212

Eduard's sublime new 1:48 Mitsubishi A6M2 Zero is going to run

and run (we hope) manifesting in many versions and markings over the coming few years. It really is a magnificent model and the latest release to emerge is this ProfiPACK Edition which comes complete with pre-painted photo-etched parts and the always-invaluable canopy masks. The latter are such a brilliant idea and offer the modeller an (almost) pain-free method of achieving crisp edges to the canopy's framework. In this boxing of the Type 21 Zero, Eduard treat us to no less than five decal-options; one based on the Imperial Japanese Navy carrier Hiryu, 1941 (overall Hemp grey), an aircraft on the New Britain island of Rabaul, August 1942 (overall hemp-grey), another on Rabaul in 1943 in grey with grey 'splotches', a Zero on Celebes Island 1944 painted in dark green/grey plus a second in this scheme based on Kanoya airbase, Japan in 1944. The camouflaged aircraft offer a little more visually interesting than the plain grey of the initial 'Pearl Harbor attack' machine offered first by Eduard and the weathering potential is huge. The airframe is covered with lines of incredibly fine rivets and fasteners which will respond brilliantly to subtle colour-washes. The standard cockpit is exquisitely detailed but as you can see from this issue's 'New Releases Accessories' section, you can take it even further with a whole new resin/PE cockpit in Eduard's Brassline line. **TMMI**

-  A phenomenal kit as it comes in the box, now with some attractive new markings
-  Very little to find fault with here; some small parts that will require tweezers



TAMIYA, JAPAN

TIGER I EARLY PRODUCTION (EASTERN FRONT)

www.tamiya.com www.hobbyco.net

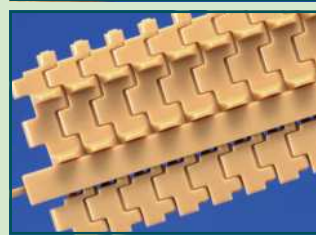
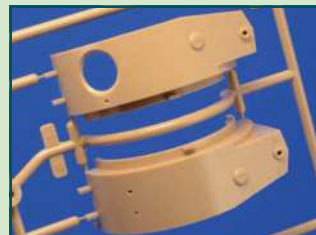
SCALE: 1:48 • MATERIALS: IM, WS • ITEM NO.32603

The iconic Tiger I was one of the most powerful heavy tanks during

WWII and its variants run from early to late-production vehicles.

200 early production vehicles were produced from November 1942 to June 1943 and they were in service in Tunisia from the end of 1942 and Eastern Front. This is an updated version of Tamiya's 2004 kit of the Tiger I, which then came with a diecast lower hull, an idea not received all that well by some modellers. The kit was been updated with a far superior injection-moulded polystyrene hull in 2013, which carries improved detail and fits better with the surrounding kit parts. The model comes with accurately recreated early-production features such as the Feifel air filters which exhibit the correct pattern of twisting, polygonal steel tubing, a remarkable feat in this small scale. The tracks come in the now-familiar form of link-and-lengths comprising straight sections of upper and lower runs, with individually moulded links that wrap around the idler wheels and drive sprockets. It's an almost infallible way of achieving a convincing result without having to use entirely individual links. Some of the upper deck pioneer tools are still moulded in, but with some of Hauler's (www.hauler.cz) photo-etched brass tool clamps (HLX48007) and also Hauler's engine deck screens (HLX48008) for Tamiya's kit, they will look fine. Apply some dark colour-washes around the details and this little Tiger will roar! **TMMI**

-  Includes two new marking options; 503rd Heavy Panzer Battalion (three-colour camo) and 502nd Heavy Panzer Battalion (overall Dark Yellow).
-  The all-essential photo-etched engine screens not included





LIGHTNING DOES STRIKE TWICE!

Tamiya's 1:48 Lockheed P-38F/G Lightning was launched to much acclaim back in 2019 and aside from the release of the P-38H – which differs from the 'F' and 'G' in only small details – we have been kept waiting until 2022 for the 'J' model. This machine was mostly observed in natural-metal finishes with some eye-popping nose-art and as such,

makes a very appealing modelling subject, arguably more so than the overall olive drab/neutral grey earlier Lightnings.

HOW IS THE 'J' DIFFERENT?

The P-38J differs from the previous iterations most noticeably in its engine air-intakes, which are much larger than before. A slightly less

obvious difference are the four radiator scoops halfway along the tail-booms; as with the engine intakes they are significantly larger and more bulbous in shape than on earlier aircraft.

Other changes include new flat-fronted forward and two-part rear canopy mouldings, updated turbo-superchargers, new control-column handgrip, updated cockpit wall details





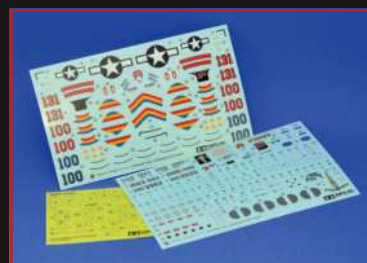
and many other, smaller details to create the much-desired P-38J. Tamiya's new 1:48 P-38J Lightning includes:

- New parts to depict wingtip leading edges with detailed refuelling ports
- Nose undercarriage leg with updated fork and main landing gear has reinforced upper rotating struts
- Three markings-options including

'Marge' flown by US ace pilot, Richard Ira Bong Keep reading Tamiya Model Magazine for the full-build feature on this fabulous new kit!

Subscribe: www.adhbooks.com ●

Availability;
Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; www.hobbyco.net



FULL-BUILD: WORLD WAR TWO AXIS AVIATION
EDUARD 1:48 BF109G-10 MTT REGENSBURG PROFIPACK EDITION ● KIT NO.82119

PERFECT TEN!

Frank Crenshaw gets the best from Eduard's Bf109-G10 by using basic modelling skills, plus a little creativity



The first operational Bf109s came into service in 1937 and the design quickly established itself among the premier fighters of the era. In the Battle of Britain, it cemented itself into legend. According to pilots from both sides, it was superior in many ways to the Allied Spitfires and Hurricanes which it fought against for control over Britain's skies, but due to a limited range, the Luftwaffe was never able to exploit

those advantages to a victory in the battle. As the Battle of Britain ended in the late fall of 1941, so did the superiority of the '109. The Allies quickly closed the gap and by 1942 they had obtained parity in fighter performance with the Germans.

The design was continually updated, adding more powerful engines, larger weapons and engine boost capability, the apex of the design being the F variant. Continually upgrading

weapons and engine added weight and drag while the underlying design never changed. By 1944 the '109 was heavy and the design seriously outdated, while newly minted Allied fighters – with better trained pilots – were more than a match and were far superior in numbers as well.

Eight years after the first production, in March of 1945, the last of the '109s were being built in dispersed underground

facilities as Allied bombing had destroyed the factories. Under impossible conditions these last gasps of Hitler's mighty Luftwaffe were assembled by half-starved slaves and with hardly any fuel available, hastily trained pilots were given the impossible task of defending against wave after wave of Allied bombers and fighters. The life of a Luftwaffe pilot in 1945 was anything but glamorous, rather, it was a death sentence. ▶



Please note, the swastika emblems on the tail have been removed from these photographs to comply with laws in countries where Tamiya Model Magazine is sold

FULL-BUILD: WORLD WAR TWO AXIS AVIATION

EDUARD 1:48 BF109G-10 MTT REGENSBURG PROFIPACK EDITION ● KIT NO.82119

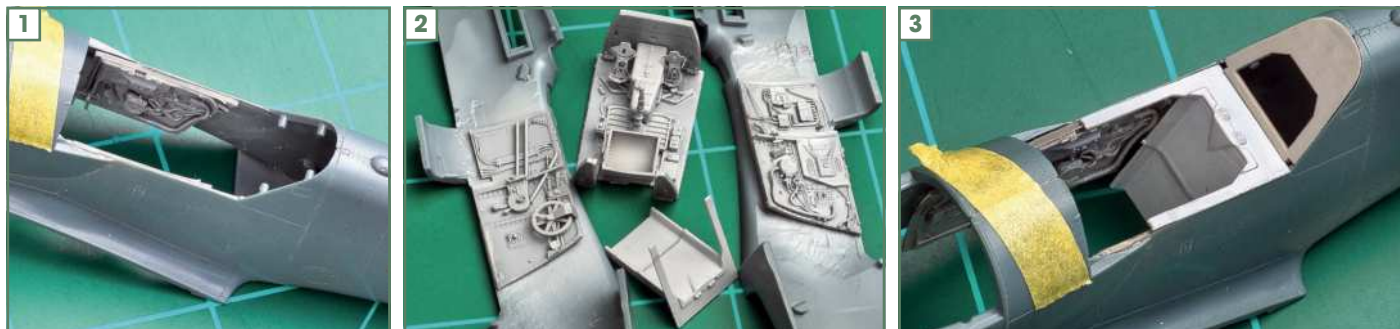
THE KIT

The kit is well reviewed at this point; it features lots of parts to cover various variants. The parts are exquisitely moulded with many spares which allow you to build any number of

planes from a single box. This is a fantastic model! I picked up the kit and a nice cockpit set for it back in 2018 at the IPMS/USA Nationals when it was first released. Since then, I have been slowly picking

up aftermarket items and I finally got enough that I wanted to build the model. In addition to the kit itself, I have the Eduard cockpit and photo-etch set designed for it. I also picked up some really nice main and

tailwheel from Barracuda, the last items I really needed. As to markings, I really liked the look of the kit's supplied markings for an aircraft assigned to JG-27 as it was marked at the end of the war.



THE BUILD

I started by adding the aftermarket cockpit. Some people care only about fit and this cockpit set is designed to fit without any extra effort. This makes it horrible for me! Sure it's easy to put in, but you lose the look of a real '109. The cockpit walls are a scale foot thick! It looks very wrong to me. I'm not saying Eduard is bad for doing this; it makes the set much easier to install after all, but it makes it much harder to build so that the sill ledge is visible (a very distinctive feature of a '109 cockpit). To fix this, I ground the plastic on the fuselage very thin and I sanded the sidewalls as thin as I could as well (pic 1). I designed and 3D-printed a new sill and seat backing. This greatly improved the look of the 'pit and was fairly easy to accomplish (pics 2, 3).

The cockpit was painted by mixing Vallejo paints 70.826 (RAL 7021) and 70.866 (RLM 66) in a ratio of 2:1 respectively. This was then thinned and sprayed through my Iwata HP-C airbrush (www.airbrushes.com). This same mixture was also used to brush-paint the RLM 66 areas of the kit's supplied photo-etch to ensure everything matched. I used HGW seatbelts for the first time and found them to be quite amazing! One of the better upgrades for any model with a visible cockpit is these belts as they look so realistic. I put the shoulder straps aside at this point as I will add them after painting and



weathering, so I can have them realistically hang out of the cockpit as is seen in many period photos of Bf109s (pic 4).

MATING THE FUSELAGE

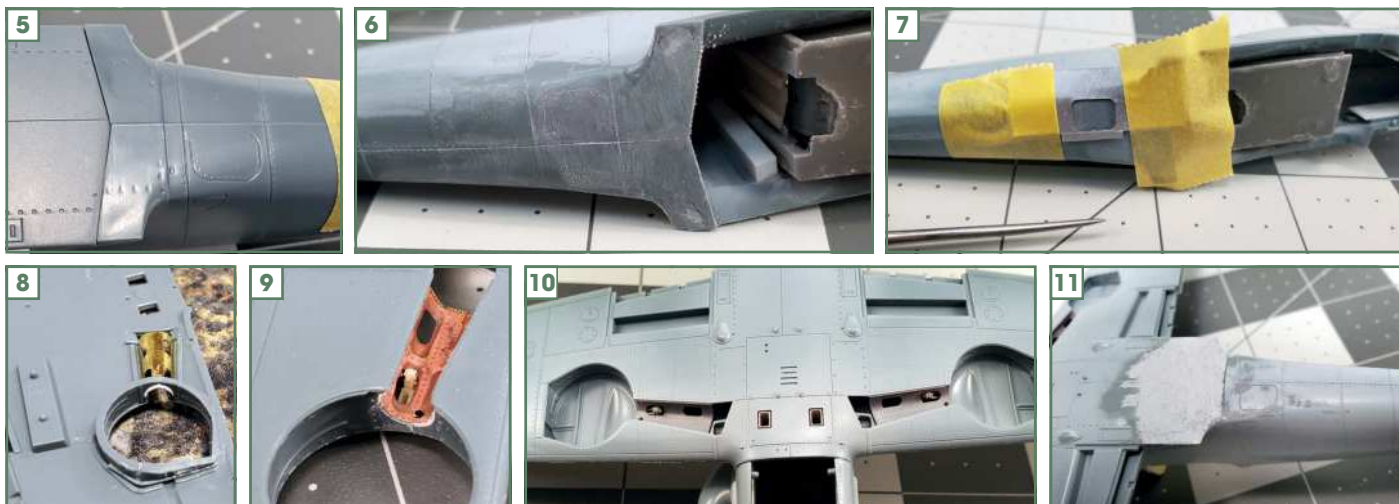
The next step was to assemble the fuselage halves. I don't like the way Eduard would have you add the exhaust stack, so at this juncture, I added a strip of styrene to the inside of the exhaust ports to ensure I would have a backing to place the exhausts after assembly. I'll explain why later, but basically Eduard moulded the exhausts too large and I want to use aftermarket to fix this issue and this is the easiest way to achieve that. Fuselage assembly was easily accomplished as the parts fitted very well. However, the Eduard kit does suffer from inconsistent moulding of panel lines and rivets near the edges of the part. My kit's MW-50 access

hatch was only half present, all of the rivet and most of the fastener details were missing or so poor as to be not good and there were very deep sink marks near lower wing/fuselage joint (pic 5), so I filled them before proceeding (pic 6).

To fix the poorly moulded hatch, I made a template out of soda-can aluminium and re-scribed the hatch. This worked perfectly and I now have a template for every other Eduard Bf109 I build (pic 7). The next thing was to add the photo-etch for the landing gear. While the etched parts are gorgeous, they simply don't fit into the Eduard kit's wells correctly. I got around this issue by pressing a lump of epoxy putty in from the inner wing side until it bulged out into the wheel. I then smoothed that over with a damp Q-Tip to make a perfectly blended joint (pic 8). I also decided to 3D-print a landing gear up-lock. This results in a

very visible but obscure detail that only the truly interested would ever notice, as it's very small. However, it is visible to those who look (pic 9).

Before gluing the wings on, I added some spent casing chutes to the openings in the lower wing. This is a very noticeable detail that really looks good on the finished build (pic 10). Another curious issue with this kit is the lower wing joint near the rear fuselage. The instructions show that there is a V-shaped panel line that mimics where the wing and fuselage join. This is a mistake on Eduard's instructions and the line must be filled in to make the model correct. This also requires one to scribe a line to the correct location at the rear wing. Make sure to check your references when building these Eduard '109 kits (pic 11).



PAINTING PREP

The next step is to clean everything up in preparation for painting. I recreated the missing details and gave the model a coat of Mr Surfacer 1000 before moving on (pic 12). Painting began by laying down a base of Alclad 2 Polished Silver. I find that Alclad 2 makes the perfect base for just about any paint (pic 13). After the Alclad 2, I painted the main camouflage using AK Interactive Real Color 320 RLM 76 (v1) as my base. This is a slightly greener version of the very blue 76 and I felt it would be a good representation of a slightly unusual paint scheme on a plane being assembled during impossible shortages.

I really like the look of this paint on this plane.

For the RLM 74 and RLM 75 I used the Hataka Orange Line as I was told by Tony Argudo, a modelling friend who obsessively studies such things and collects actual relics! His studies have led him to feel Hataka RLM 74 is the best representation of the actual colour of any brand. The others tend to be too light and too green in his estimation. I can't comment on the accuracy of his assertions as I'm not an expert in Luftwaffe colours, but I think his advice was sound as the result looks quite good to my eye.

However I can tell you this - Hataka Orange Line

is fantastic paint. The paint was thinned with Tamiya Lacquer Thinner and sprayed using my H&S Infinity airbrush. The fidelity of the detail I was able to achieve with Hataka was most impressive to me. I will definitely be using this paint more as it's very good! I was able to replicate

the intricate mottling seen on this airframe with little issue. I am a fan of Hataka Orange Line! (pics 14, 15). Once the main painting was finished, used the kit's markings a basis for cutting masks which I used to paint all the markings except for the stencilling (pics 16, 17, 18, 19). ▶





NAV-LIGHT REPLACEMENT

On a real Bf109, the navigation lights are coloured bulbs that have a clear housing over them, on each wing tip. Eduard moulded these lights in, so the only way to represent them is paint them a solid opaque colour. While this is an obscure detail, it's not one I wanted to ignore and for some reason I idiotically waited until after I painted it to fix it. This is a thing that should be fixed before paint... The fix is to simply cut the lens part out of the kit's wingtip and add a coloured bulb. I used stretched clear sprue painted with clear red and green for the bulbs. Then to make the clear lens, I simply filled the opening with CA glue and sanded it to shape, then buffed it. It's an incredibly simple and effective strategy for making these kinds of lights.

Fortunately for me, the Hataka Orange Line and AK RC paint were very forgiving of being sanded and I was able to complete this detail and fix all the damage without issue (pics 20, 21). One thing I have noticed is that Eduard has moulded the landing gear at full extension, which makes the completed model 'sit' strangely. I decided to fix the problem on this build. It's obvious that the issue is

that the landing-gear leg is too long, so the solution is to shorten it. In order to keep the leg strong, I decided to fabricate some lower legs out of brass rod. The first step to accomplish this is to make a plaster casting of the kit's leg. This allowed me to solder a new one at exactly the same angles and sizes (pic 22). A new set of lower legs was then soldered together using the plaster jig (pic 23). Because I cut the lower legs off, I was careful to ensure the alignment of

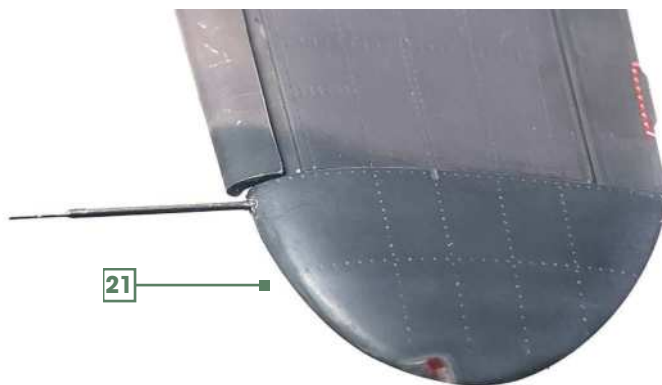
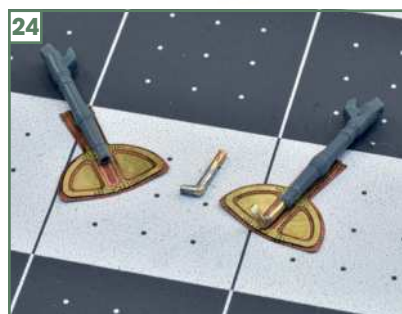
the gear legs were correct. A simple guide helped me align everything correctly (or correctly enough) (pic 24).

EXHAUSTING WORK

The next thing I decided to address was the kits overly large exhaust. While this issue isn't entirely fixable – as the opening the fuselage is too large – I found that the exhaust for the Tamiya Bf109 fitted in the Eduard openings pretty well (pic 25). I also opened up the cooler flaps that were

moulded into the oil cooler fairing, as well as the front part of the wing radiator intakes. Most photos I have seen of '109s show these doors open on the ground.

Thus, I ordered a set of Quickboost exhausts for the Tamiya Bf109-G6. They were painted up and installed; once this step was complete, the stencils for the HGW wet transfer set designed for the '109G were applied (pic 26). This was my first time using this product and I found them

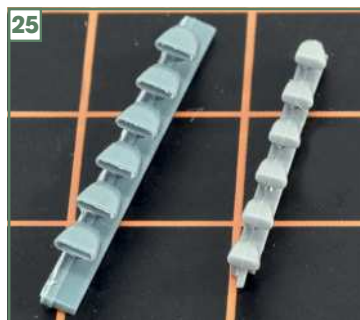


to be superior to decals in every way with regard to easy application! The only issue with them is cost (but they are well worth it) and that they are only available for limited subjects. I would love some of these for my SU-27 and F-4 builds!

The first step in my weathering process is to add some post-shading of heavily thinned Tamiya XF-1 Black mixed with a little XF-74 Red Brown. I then focused on adding some contrast to areas that would become somewhat stained. Because of the nature of the engine location, this tends to be heavier on the bottom of the aircraft. The Eduard instructions show an outline of the ETC rack on the bottom and that was a neat idea; I decided to mask this off and paint some contrast around it as if it had been recently removed (pics 27, 28).

The kit's radiator flaps were painted and weathered similarly. The reason is simple, I used the Eduard etched flaps and they are ridiculously hard to attach. Any slight movement or jostling will cause them to break off as they have almost no surface area for glue to make a strong bond. So I figured I would carefully put them on after the majority of weathering was accomplished to prevent a disaster. The next step in weathering was to add the dull dusty appearance these planes typically have. This was accomplished by using diluted 'washes' of Vallejo and Mission Models acrylic paint, thinned with water (pic 29). Abteilung 502 'Engine Grease' was used to make the prevalent oils stains seen on all '109s. This was carefully applied to make a realistic effect without drowning the model in gunk. The exhaust stain is heavily thinned Tamiya Black and Brown paint, applied in layers with an airbrush (pic 30).

The final details were added and the model was done. I made an IFF antenna out of a carved toothpick (pic 31) and the RDF antenna was made by smashing thin copper wire into a flat strip then bending it into the correct shape. This results in a much better part than the PE provided part (pic 32). ▶



FULL-BUILD: WORLD WAR TWO AXIS AVIATION

EDUARD 1:48 BF109G-10 MTT REGENSBURG PROFIPACK EDITION ● KIT NO.82119

FINAL THOUGHTS

In summary, this kit is far better than any Bf109G-10 model in 1:48 that is currently on the market. However, it does suffer from some issues that some will want to take note of. But in the end, with some simple, basic modelling and careful study of references, this model can easily be made into a gem that any '109 lover would be proud to own. And for those just looking for a good model to build of the '109 in 1:48 will not be disappointed by Eduard's product either. How's that for a win-win kind of model? I sincerely hope they release a Bf109K as well. ●

TECHSPEC...

EDUARD 1:48 BF109G-10 MTT REGENSBURG
PROFIPACK EDITION KIT NO.82119

Materials:

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

Paints used:

Noted within main text

Availability:

- Eduard models and accessories are widely available from good model shops and online. www.creativemodels.co.uk www.eduard.com
- Hataka Orange: www.hataka-hobby.com
- AK Real Colors: akrealcolors.com





AMATI

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LIMITED EDITION ARNO XI

Item 1610



1:8
SCALE

Length 79 cm.



This new kit, produced as a special *Limited Edition*, includes ready made fiberglass hull, completely planked with mahogany wood ready to be varnished. The superstructure is pre-made in one piece in matt white fiberglass ready to be painted. The seat, cabin padding and headrest are hand made and covered with red simulated leather, ready sewn. All fittings, accessories and exhaust pipes are in solid brass and chrome plated. This kit includes very detailed photo-etched parts to complete this realistic model.

FERRARI TIMOSSİ RACER



Book Reviews

GOT A NEW BOOK? IF YOU ARE A PUBLISHER WITH A NEW MODELLING RELATED TITLE TO PUBLICISE, WHY NOT SEND IN A COPY FOR REVIEW HERE?

SD.KFZ.166 STURMPANZER IV HARALD FITZ, NUTS & BOLTS www.nuts-bolts.de

Of all the variants based on the Panzer IV chassis, one of the best known is the Sturmpanzer IV, nicknamed the Stupa, but often called the 'Brummbär' in modern literature. The latter name (Grizzly Bear) is actually not seen in any official German document, and comes from an American report in 1944! The history and use of this vehicle is quite well covered in books aimed at modellers, but as always the Nuts and Bolts team has put together something very special. The Stupa was produced in batches with significant changes in the superstructure between the four series. The initial production, in response to the need in Stalingrad, used refurbished chassis, but later production was straight off the assembly lines. In total, they served with three battalions and with two independent companies, and saw action on the Eastern Front, in Normandy, and in Italy. The intended function had been to provide heavy support in taking cities and fortifications, and the resulting vehicle was seriously overloaded with armour and armament, resulting in many breakdowns. The book is a fabulous bilingual (English/German) summary of every fact that a modeller could need, including contemporary photos, museum photos, scale drawings, colour profiles, unit organisations... Every possible question is answered in great detail. The unit histories also include details of the camouflage applied and any markings used, so that the reader is left in no doubt about how a model should appear. Not only an outstanding resource for modellers, this book is a fascinating read for anyone with an interest in military vehicles and their use. A complete assemblage of everything a modeller or historian might need. Pricey, but absolutely worth every penny for the detail and accuracy. **CLS**

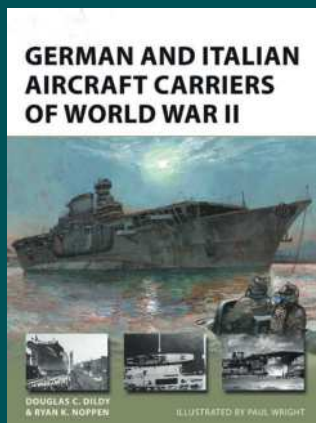
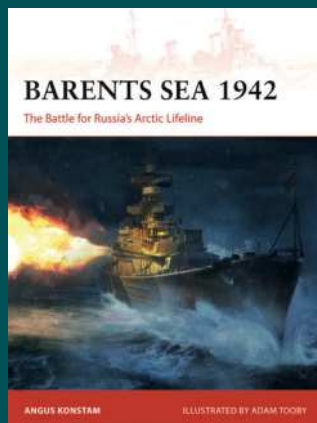


LUFTWAFFE IM FOCUS AXEL URBANKE, LUFTFAHRTVERLAGSTART www.luftfahrtverlag-start.de

We always love it when a new book from Luftfahrtverlagstart drops through the letter box of TMMI Towers and this fascinating German publisher's newest title is another of their 'Luftwaffe Im Focus' productions (No.31), offering yet another glorious selection of previously unpublished photographs of Second World War Third Reich aircraft. Here, we open with a mouth-watering original colour photo of a Junkers Ju87G; it is included, in fact, in reference to a previous volume (27) with some corrections and additions to its caption, proving just how fastidious the author is when it comes to getting things right. That's impressive. As we move through the book we are treated to some crisp images of Bf110s on a snowy Eastern Front landing strip with some unidentified underwing equipment; most intriguing. We then come to a terrific Agfacolor photo (no colourisations here) of Priller's Bf109 tail-fin (plus another in black and white) showing the pilot's 'kill marks' over the swastika; modelling inspiration right there. More wonders follow; He111s, Ju88s, Me410s, Fieseler Fi156 Storchs and even some ground vehicles, all relevant to the overall topic, naturally. If you love to collect rare WW2 images of Luftwaffe fighters, bombers and more, this series of publications is a must-have. **TMMI**



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With the imminent release by Tamiya of the Lockheed P-38J Lightning in 1:48 – the cool one in overall metal – this book could not have been better timed. Within its 160+ soft-bound pages we have a such a visual treat that it will have hearts racing and legs running up loft ladders to grab something USAAF from the stash to build! It certainly did for this reviewer. It is very much a pictorial presentation (thank heavens) and the author has sourced a mass of phenomenal imagery depicting WW2 US Army Air Force fighter and bomber aircraft, including aforementioned P-38 Lightnings plus P-47 Thunderbolts, P-51 Mustangs of various marks, P-40 Warhawks, P-39 Airacobras, Douglas A-20, A-26, P-61 Black Widows, B-17 Flying Fortresses (of course), B-24 Liberators, B-25 Mitchells, B-29 Marauders and B-29 Super Fortresses. As you'd rightly guess, the weapon that features most prominently throughout the book and fitted in most – if not all – of the aircraft is the Browning AN/M2 .50cal machine gun, but by no means exclusively; we also see the .30cal AN/M2 MG, 20mm heavy cannon plus assorted rockets and bombs. The photographs are magnificent and there's a healthy smattering of original Kodak colour photos too, which truly bring the subjects to life. If you have a hankering to build Tamiya's stunning new P-38J, P-51D Mustang or any other American combat aircraft of the Second World War, this book is an absolute must-have. **TMMI**



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The Fokker Dr.1 'Dreidekker' and its contemporaneous British counterpart – the Sopwith Camel – were the Messerschmitt Bf109 and Supermarine Spitfire of their era, in a way. The bright scarlet 'Red Baron' Fokker Triplane is surely the most memorable aviation icon of 'The Great War' and in this new 72+ page softback from world-renowned WW1 aviation expert Ray Rimell will help the modeller gain an appreciation for the type, inside and out. In this first volume, the authors look at the first factory order of twenty, pre-production aircraft; in volume 2, the focus will turn to the 200 aircraft that comprised the final order. The book is by modellers, for modellers, and the precious wartime photographs support the extensive model-building sequences amongst which we find our only (minor) criticism; the model photos are rather small and will require one to don reading glasses to properly see the detail. But this is a surmountable issue and the images of the finished models more than make up for these smaller in-progress shots. Coupled with some lovely colour illustrations from Juanita Franzi and Ronny Bar, this title forms an excellent guide to the earlier examples of the famous Fokker. We are looking forward to Volume 2. **TMMI**



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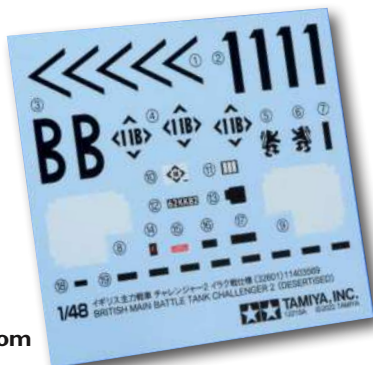
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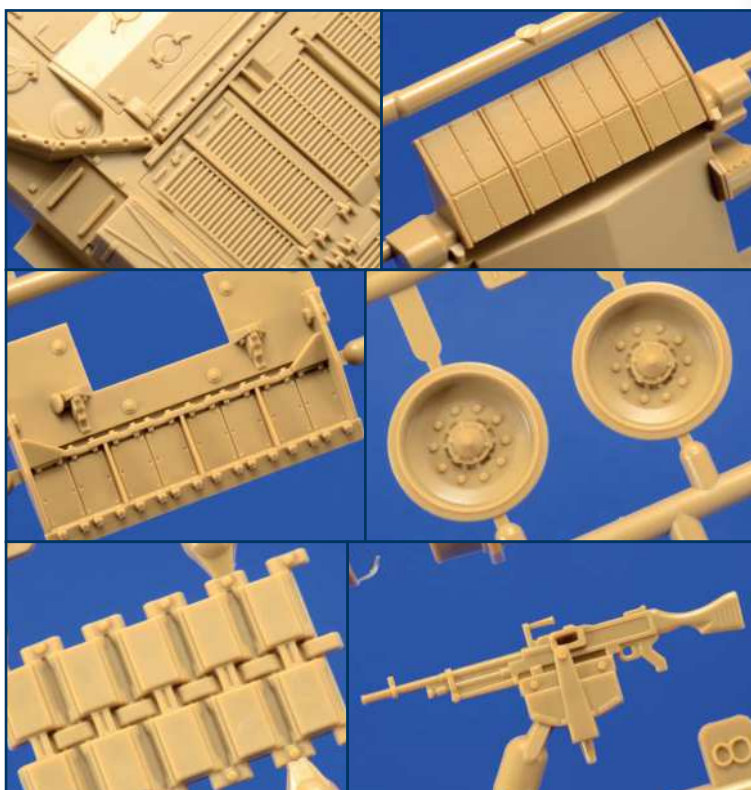
UP FOR THE CHALLENGE?

Tamiya's latest release in the '1:48 Military Miniatures Series' is the 'British Main Battle Tank Challenger 2 (Desertised)' and it arrived just as this issue was being finished, so here's a quick look at what's in

the box. The kit's barrel can be elevated and the model will come with one half-figure for the commander, one markings-option plus assembly-type tracks. Read the full-build article in the next issue of Tamiya Model Magazine, No.321, July 2022! ●



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EDITOR'S CHOICE

MINIART 1:35 WOODEN CRATES WITH FRUIT

www.miniart-models.com
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My choice this month is another set from MiniArt - I just love their stuff! This time it's a pack of wooden market crates with miniature fruit to go inside them! Who thought we'd ever have 1:35 bananas, kiwi-fruit and watermelons? Well, we do now! Ideal for dioramas.



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MILITARY MINIATURE SERIES

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HOBBY
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LIMITED**

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Powerful Tiger on the Eastern Front!

1/48 Military Miniature Series

German Heavy Tank Tiger I

Early Production (Eastern Front) (Item 32603)

The Tiger I appeared as the new German heavy Tank in the middle of WWII. This tank was a threat to the Allied Forces with its heavy armor and powerful offense, and attained fame as the one of the most powerful tanks during WWII. Tamiya welcomes this heavy tank with early production model features into the extensive 1/48 Military Miniature Series! As well as the partial renewal of parts of Item 32504 released in 2004, the chassis has been modified from die-cast to plastic for ease of assembly. The powerful form is authentically captured in style and details are realistically depicted. Two marking options to depict Tiger Is on the Eastern Front are included. You can create a diorama with tanks such as the T-34.

No.213, 2nd Company,
502nd Heavy Panzer Battalion



Length: 175mm, width: 77mm.

Comes with two marking
options for Eastern Front
Tiger Is.



No.233, 2nd Company,
503rd Heavy Panzer Battalion

Assembly type tracks
feature single piece
straight sections.



Early production model cylindrical cupola and air cleaners are accurately recreated.



Includes chassis weights for a
realistic heavy feel.

(Tamiya Color Acrylic Mini Paints/Tamiya Color Enamel Paints (XF) / Tamiya Color Lacquer Paints (LP))

●XF-88/LP-55 Dark Yellow 2 ●XF-89/LP-56 Dark Green 2 ●XF-90/LP-57 Red Brown 2

An Extensive Line Up — 1/48 Military Miniature Series



German Tiger I Late Production
(32575)



German Tank Panther Ausf.D
(32597)



WWII Wehrmacht Infantry Set
(32602)

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

Check Tamiya's homepage for the
latest releases! [www.tamiya.com]



Pioneer of a New Era!!

1/12 Big Scale Racing Car Series Renault RE-20 Turbo (w/Photo-Etched Parts)

(Item 12033)



**1/12
SCALE**

The Renault RE-20 Turbo recorded three triumphs in Formula One grand prix races in 1980, and this result prompted the development of numerous other turbocharged Formula One cars. Now, Tamiya welcomes back this pioneering car in the popular 1/12 Big Scale Racing Car Series! The eye-catching 1.5-liter V6 turbo engine features finely detailed turbo system such as turbocharger and intercoolers, ignition cables and fuel pipes. The transmission is also authentically rendered, and aerodynamic body and nose cowl sections are detachable even after assembly to show frame structures and side pontoon interior sections. Also, front and rear suspension are equipped with coil springs and movable. Enjoy this innovative car – the symbol of Renault's passion – in detailed Tamiya 1/12!

**High-quality Cartograf decals
& photo-etched parts included.**

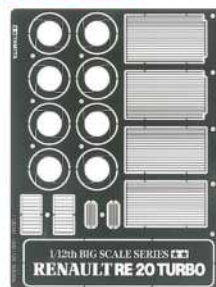


Photo-etched parts to depict radiators, intercoolers, oil coolers and brake discs.

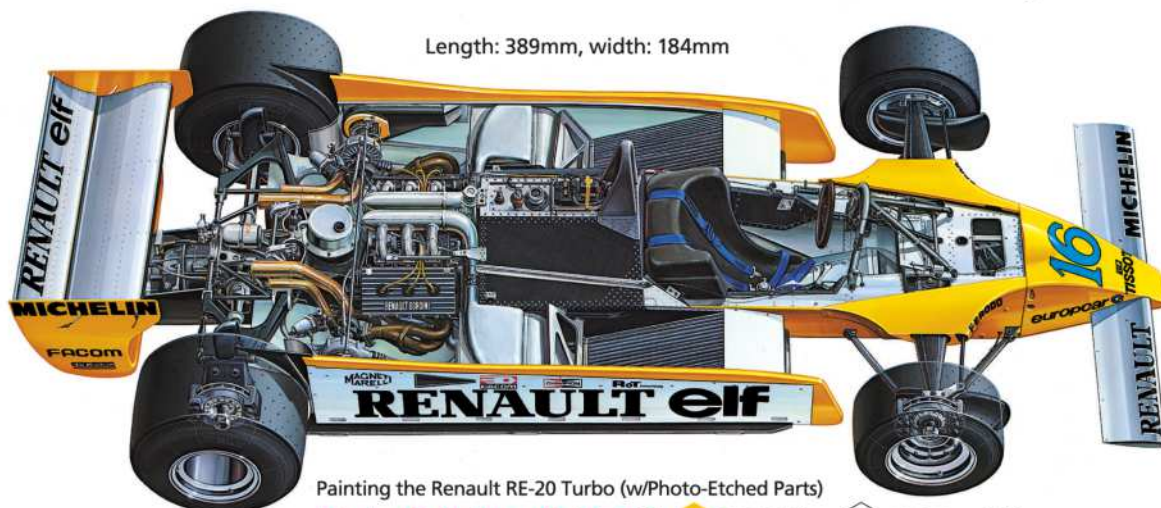


- ① Details such as engine, turbo unit, blow-off valves, intercoolers and oil tank are accurately depicted.
- ② Cockpit features realistic renderings of seatbelt, shift, brake and clutch pedals.

Updated decals to recreate sponsor logos and body markings.

★Body cowlings are white for ease of painting. ★The side pontoon underside sections – a feature of ground effect cars – are realistically captured. Side skirt parts move up and down. ★Steering wheel turns front wheels. ★Features realistic synthetic rubber tires with tread patterns and logos.

Length: 389mm, width: 184mm



Painting the Renault RE-20 Turbo (w/Photo-Etched Parts)

(Tamiya Color Spray Paints (TS)) TS-16 Yellow TS-26 Pure White

**RENAULT
RE 20 TURBO**
w/PHOTO-ETCHED PARTS
1/12th BIG SCALE SERIES



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