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TAMIYA

£4.60 December 2019 ISSUE 290

**KINETIC
ENERGY**

THE NEW F-104G
STARFIGHTER IN 1:48

Model MAGAZINE

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INTERNATIONAL

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BEE-UTIFUL 1:35
SD.KFZ.164
'HUMMEL'

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INSIDE

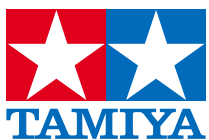
Tamiya 1:48 Heinkel He219 Uhu, Beemax 1:24 BMW Tic Tac, Scale
Scotland show report, plus new kits, books and modelling accessories...

DOOLITTLE
MEDIA



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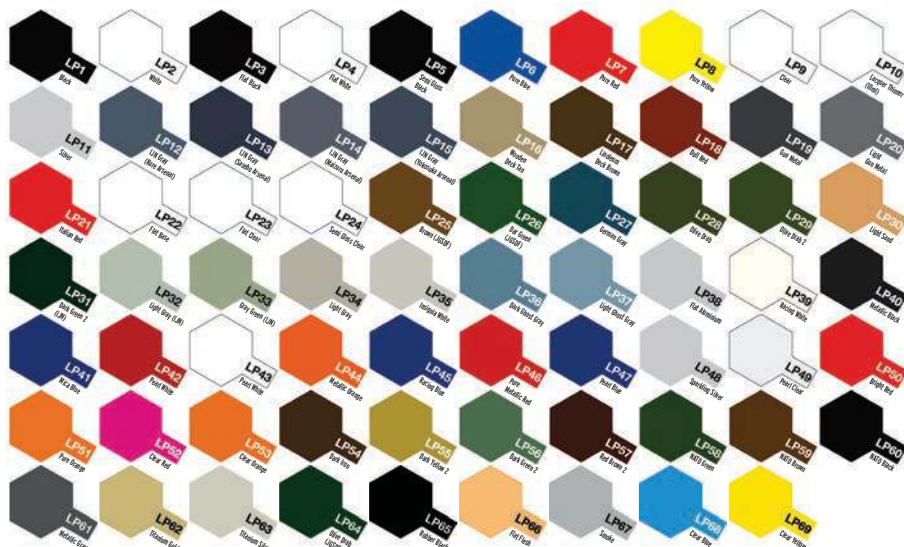


LACQUER PAINT

69 AUTHENTIC COLOURS DESIGNED FOR MODELLING EXCELLENCE

The Tamiya Colour range of quality paints - designed specifically for modelling use has long helped modellers achieve the perfect finish on their scale masterpieces. Now, existing Tamiya Colour bottled acrylic, plus lacquer spray paints are joined by the new Lacquer Paint line of bottled Tamiya Colours. Use them as your needs require: airbrush large areas, or pick out fine details. With a tough membrane and swift overall drying times - but slow initial drying to allow a beautiful unblemished finish. We are sure they will become an essential item in your modelling armoury.

- No need for primer: gloss and matt colours can be applied directly to model kit plastic
- Quick drying time
- Fabulous when airbrushed, and can also be applied by paint brush to detail areas
- Can be used in a similar way to Tamiya's X and XF line of acrylics
- Weathering colour washes and dry brushing can be applied over the dried Lacquer Paint
- Once dry, can be safely over-painted with acrylics, enamels and other model paints
- Lacquer Thinner Retarder Type (87194) slows initial 'flash off' time, allowing paint droplets to merge on the surface of the model for a smoother finish
- Robust final finish that adheres strongly to the model's polystyrene surface
- Constantly expanding range of colours for military & civilian subjects
- Ultra-high Tamiya quality



Beautiful colours with superior gloss

The stunning tones and lustrous glossy finish provided by airbrushing Tamiya Colour Lacquer Paint are perfect for model car and motorcycle paint jobs, and it's tough membrane is perfectly suited to treatment with polishing compounds. Colours previously only available as sprays - Pearl blue, Mica red, Pure orange and more, are now in bottled form removing the need for decanting when you want to airbrush.



Great for airbrushing

Tamiya Colour Lacquer Paint's true, consistent tones make it perfect for airbrushing large areas. Mix 1 part Lacquer Paint with 1-2 parts dedicated thinner, and make 2-3 passes over the subject with your airbrush. Pick out the details with Tamiya Colour mini acrylic paints: Lacquer Paints provide a durable base coat that remains undamaged even by enamel topcoats.



Efficiency is the name of the game

Tamiya Colour Lacquer Paint dries quickly: most colours are safe to touch after an hour and can be masked on top of 24 hours later, saving valuable time in the production of your masterpiece. Again, as Lacquer Paints provide a durable base coat that remains undamaged by enamel counterparts, there is less worry during paint jobs that require multiple layers of paint.



No worries when weathering

Tamiya Colour Lacquer Paint's resistance to enamel paints is a big advantage in the weathering process too, as enamel paints are most commonly used for the application of washes and depiction of dirt, grime and oil, in particular on military model subjects. Just apply a Lacquer Paint base coat and get to work weathering!

ITEM 87198 - PAINT RETARDER

This paint retarder is dedicated to the Tamiya line of lacquer paints. Retarder slows drying of paints for beautiful finishes and limits blushing in humid conditions. By slowing the drying of the paint it lessens the likelihood of brush marks remaining and blemishing your surface coat.



ITEM 87194 - LACQUER THINNER RETARDER TYPE

This new product not only thins lacquer paints for airbrushing, it also includes retardant to slow the drying of the thinned paint, particularly useful in covering up any overspray and getting a glossy finish.



ITEM 87077 - LACQUER THINNER

This thinner has a variety of uses in addition to the thinning of lacquer-based paints. It is also useful when cleaning painting tools and airbrushes, removing unwanted paint or excess putty, and even thinning liquid surface primers.



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See the full Tamiya range at www.hobbyco.net
Tamiya Accessories are available from all good model shops

Check out this video on using the new Tamiya lacquer paints: <https://youtu.be/Krl0kZv3Gq4>





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An all new F-104G Starfighter
in 1:48 by Kinetic



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Model MAGAZINE INTERNATIONAL

Issue 290 December 2019

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IN BRIEF...



TAMIYA

- 1:48 Mitsubishi A6M3a Zero Fighter 2-163, 201st Air Group (Finished Model)
- 1:48 Mitsubishi A6M3a Zero Fighter 188, 582nd Air Group (Finished Model)
- 1:12 RC Renault 5 Turbo (M-05Ra)
- HG Tweezers (Grip Type Tip)
- Engraving Blade Holder (Red)
- (+) Screwdriver Bit L (Short)
- Hex Wrench Screwdriver Bit (2mm)
- Ratcheting Screwdriver PRO w/(+) Bit/L
- Craft Knife II



www.hobbyco.net

EDUARD

- 1:32 Messerschmitt Bf110C-7 interior

www.creativemodels.co.uk
eduard.com



ICM

- 1:35 French Zuoaves (1914)
- 1:48 MiG-25BM Soviet Strike Aircraft

www.icm.com.ua



REVELL

- 1:35 Model T 1917 Ambulance
- 1:72 Flakpanzer III Ostwind (3.7cm Flak 43)
- 1:48 Heinkel He111H-6
- 1:35 OH-58 Kiowa
- 1:72 Eurocopter EC145 Builders Choice
- 1:72 Lockheed F-104G Starfighter RINA BAF
- 1:144 Airbus A350-900 Lufthansa (New Livery)
- 1:32 Gift Set Harrier GR.1 50 Years

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RYE FIELD MODEL

- 1:35 Pz.Kpfw.IV Ausf.J Late Production

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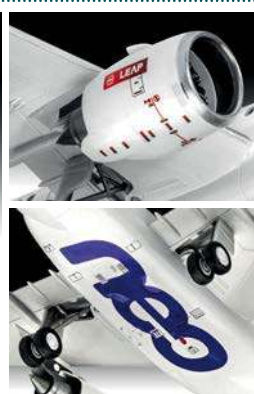
ON THE WAY FROM TAMIYA 1:700 Battle Of Malaya Set

This is a limited edition re-issue of the Battle of Malaya Set (Item 89753), now with a new background story leaflet in Japanese language and separate digest sheet in English to really bring the gripping events of this famous battle to life. During the fighting in and around Malaya (now Malaysia), the British battleship HMS Prince of Wales was sunk by Japanese bombers in a display of the potential that air power held over big ships. This set includes naval models from the Water Line series, plus minute 1:700 scale aircraft. www.hobbyco.net



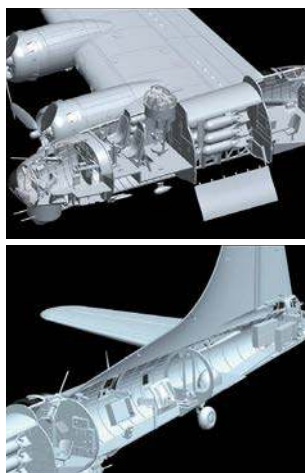
NEW FROM REVELL 1:144 Airbus A321neo

The sleek new Airbus A321neo forms the subject of Revell's next airliner release and it captures the graceful lines of this fuel-efficient machine perfectly. www.revell.de/en



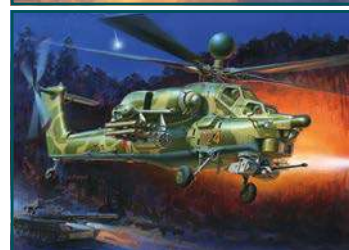
ON THE WAY FROM HK MODELS 1:48 B-17G Flying Fortress Early Production

Very wisely, HK Models have scaled down (and enhanced) their magnificent 1:32 B-17G to create this all-new 1:48 model, something aircraft modellers have been crying out for, for years. www.pocketbond.co.uk



ON THE WAY FROM ICM - Vehicles in 1:24 and 1:35

The 'Model T' (Ford) 1912 Delivery van, Type AG1910 London Taxi (both 1:24) and the WOTB truck (1:35) will soon join ICM's fantastic model kit range. www.icm.com.ua



ON THE WAY FROM ZVEZDA

New autumn releases from this Russian manufacturer include a 1:100 T-26 mod.1933 Soviet light tank, 1:144 Airbus A350-1000 and 1:72 Mil Mi-28ME 'Havoc' Russian attack helicopter. www.hobbyco.net



NEW FROM MINIART 1:35 B-Type Military Omnibus

During the First World War, London buses famously joined the troops on the front lines as troop-transports. This historic machine can now be modelled in great detail thanks to MiniArt. www.creativemodels.co.uk



ON THE WAY FROM EDUARD 1:35 M10 Achilles TD details

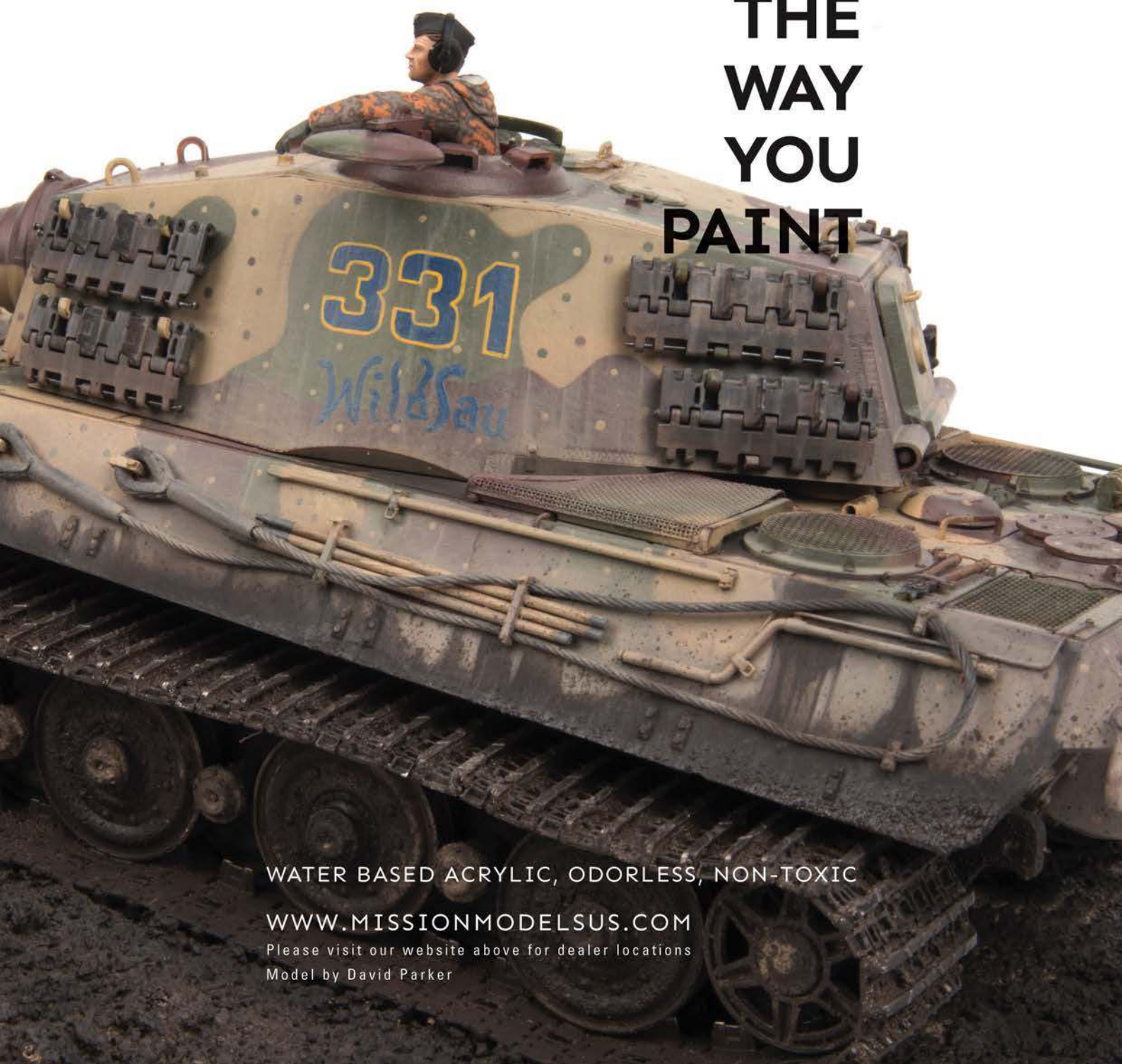
Tamiya's recent 1:35 Achilles tank destroyer gets some useful photo-etched brass details in this new set from Eduard.

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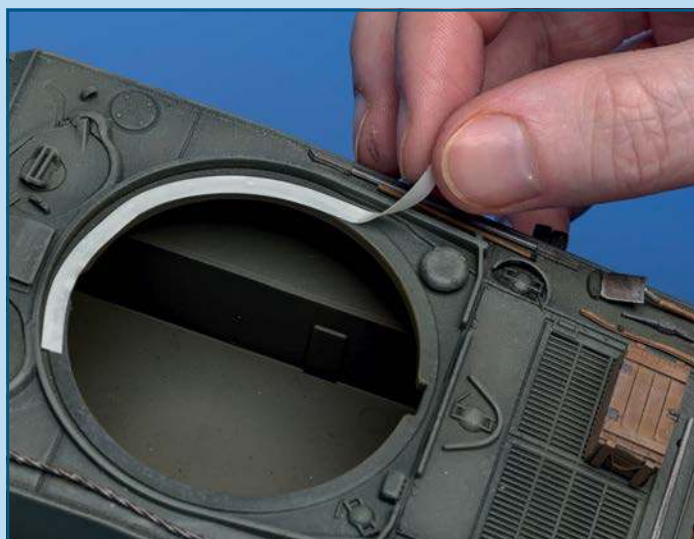
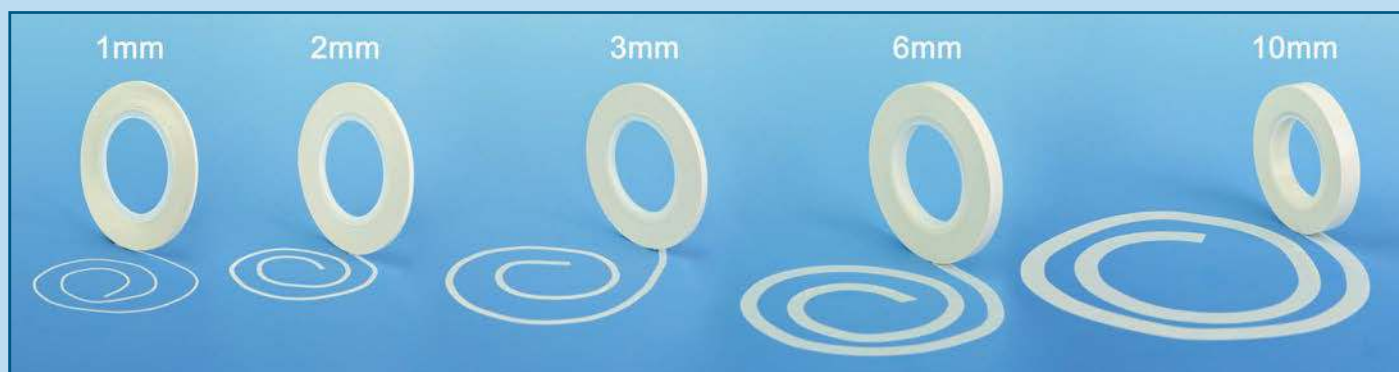
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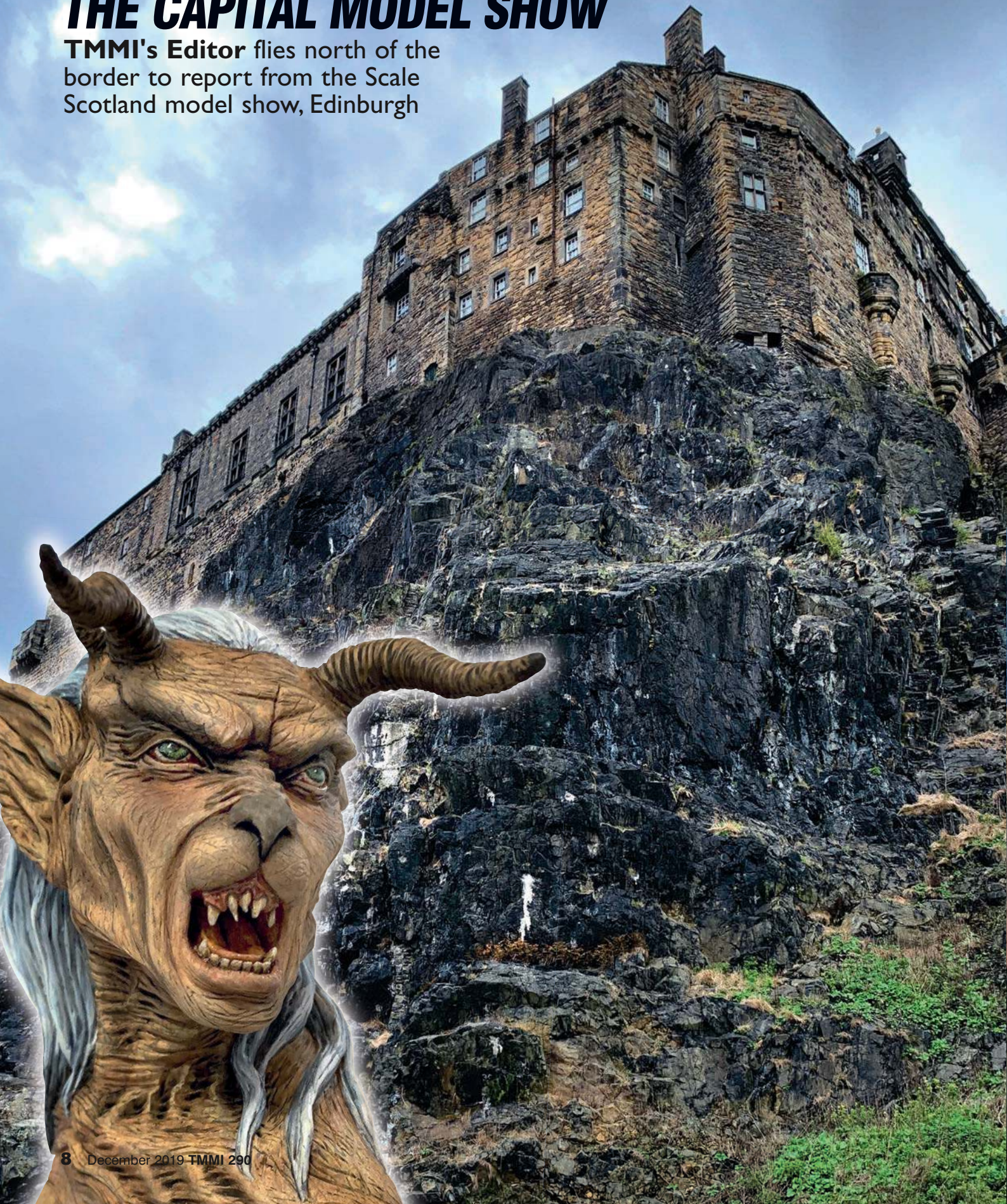


NEWS DESK EXTRA: UK MODEL SHOW
SCALE SCOTLAND 2019 EDINBURGH

SCALE SCOTLAND 2019

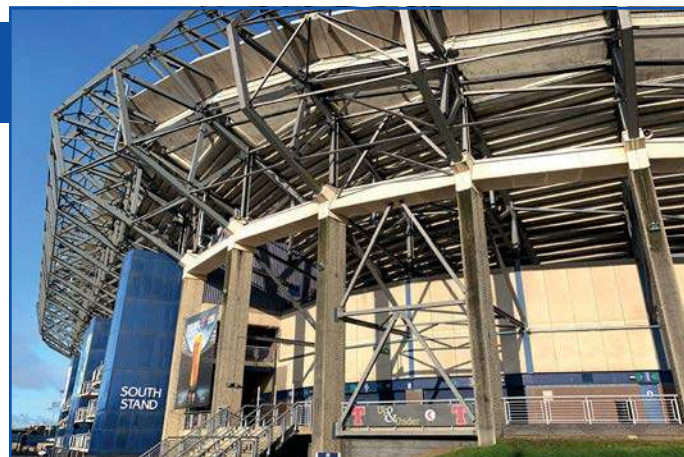
THE CAPITAL MODEL SHOW

TMMI's Editor flies north of the border to report from the Scale Scotland model show, Edinburgh





The huge BT Murrayfield Stadium hosts Scale Scotland and it was a very convenient location for the city and the airport



Back on Saturday 28th of September this year, the 'Scale Scotland' model show was held in Edinburgh, marking the fifth anniversary of the event which has grown in size, year on year, since its inception. TMMI was there for the first time, very kindly invited by the model club to report on the show.

The venue was the vast BT Murrayfield Stadium, home of Scottish Rugby Union and situated very conveniently just a few tram stops outside of Edinburgh's historic and bustling city centre. The recently-built tram network proved extremely convenient for getting to and from the airport, to my hotel and to the venue. It also runs right along Princes Street, the main thoroughfare of Edinburgh, so I could indulge in a little 'single malt' souvenir shopping once the show had finished!

As well as an excellent selection of vendors selling everything from full resin armour models down to single bottles of paint,

Scale Scotland hosts a multi-category competition covering all the main scale modelling topics: aircraft, military vehicles, figures, cars, trucks, bikes, ships science-fiction and dioramas. There was a very healthy number of entries, including some fantastic work from the juniors which is always uplifting to witness. The standard of modelling across all the categories was impressive with some stand-out pieces of work that could comfortably grace the pages of TMMI.

A WELL THOUGHT-OUT COMPETITION ROOM

The organisers had really thought through the layout of the competition, raising the tables to near chest-height so the models were (much) more comfortable to observe and topping them with plain white fabric, which is far easier on the eye (and the camera) than the sometimes funky-coloured cloth used at other model shows. The lighting was good, but I was told there might be

some improvements for next year's event. I was asked to judge some of the categories and this process always offers the perfect opportunity to get an uninterrupted, close-up look at the work on display. I left Scale Scotland feeling invigorated and keen to get back to the model bench. The welcome was warm and amiable, the chatter between friends was lively and positive and the whole show was courteously and professionally run. I heartily recommend a visit to next year's show; budget airlines will fly you to Edinburgh for a reasonable sum if booked early (less than an hour's flight from London) or you

could drive and make a road-trip out of it! However you choose to travel, get yourself to Edinburgh for next September, you'll have a real blast. I'd like to say big 'thank you' to Andy Canning, Murray Wellwood, Simon Wicksted and all the other guys who made me feel so welcome in Edinburgh. I took hundreds of photographs and potting them down to the few in this report was extremely difficult; they all deserve to be shown and it took me ages to choose them. I hope you enjoy the images that we did have space for! ●

Facebook: Search 'Scale Scotland'

The show brought together modellers from all over Scotland, the rest of the UK and Europe too





“The welcome was warm and amiable...and the whole show was courteously and professionally run...”





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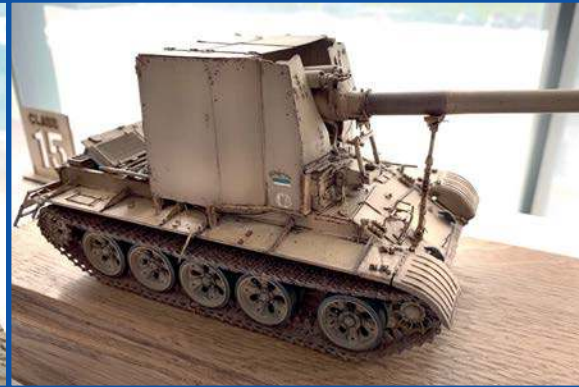
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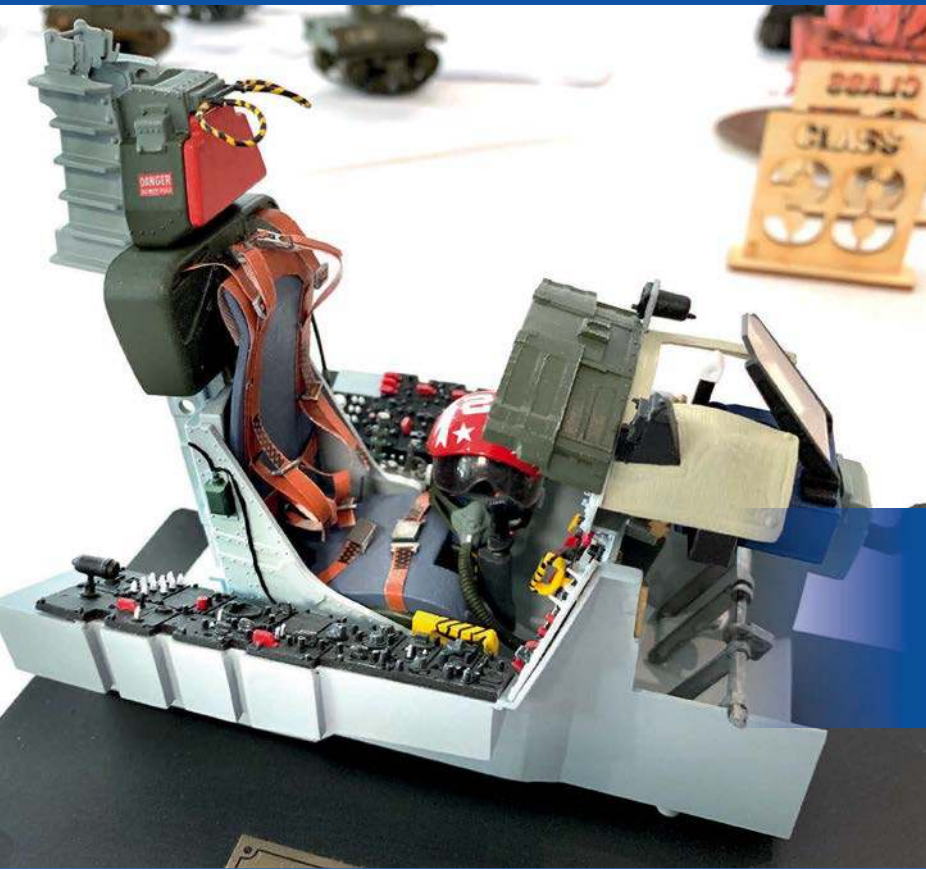


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“an excellent selection of vendors selling everything from full resin armour models down to single bottles of paint...”





“The organisers had really thought through the layout of the competition, raising the tables to near chest-height...”



Alfa Romeo 8C 2300 Monza

1:12
scalascale

1932: Tazio Nuvolari win the Monaco Grand Prix
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FULL-BUILD: MODEL MOTOR SPORT

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND ● KIT NO.B24007

BMW 3-S MINT COL

Robert Riley returns with the second of his magnificent Beemax 1:24 BMW M3 models, this time the 1992 'Valier Team Tic Tac' machine



SERIES: CONDITION!



Let's get straight into this article as this 1:24 Beemax model kit needs no introduction. Aftermarket producer 'Decalcas' offer a liveried version of the iconic E30 model so fresh it was to good an opportunity to turn down. In this article, I am building Team Valier Motorsports' iconic 'Tic Tac' liveried DTM car from the 1992 season with its solid green base coat and of course, those many white Tic Tacs! The livery transkit features simple to follow decal directions and a sheet of finely pre-cut masking, because this set means you'll be airbrushing rather than decalling the Tic Tacs. A challenge not for the faint hearted that's for sure but then again, where's the fun in keeping it simple? Let's dive in! ▶

FULL-BUILD: MODEL MOTOR SPORT

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND ● KIT NO.B24007

◀ PEELING BACK THE PACKET...

I used the Beemax '91 Deutschland kit as a base because it had all necessary parts to replicate this vehicle. The only other major external requirement to complete the look were some 18" OZ Racing wheels and Scale Production have just that for us. The minty green colour of choice is Zero's specifically mixed Valier Motorsport Green, plus Pure White. As usual, preparation was key: a dry-fit of all parts, drilling for extra details, sanding and priming followed by the main body colour work and wheels.

Several light layers of green were applied which was then all sealed in with Zero's standard single-pack clear. This was left to cure

and then sanded back smooth using various grades of abrasives ready for the next stage. No need to polish the car back up as the green will still shine through clear. I chose to do it this way to ensure complete adhesion of the masking and to guarantee all the following work had the ideal base to work from. Working from the front to back, the pre-cut masking was laid in accordance with Decalca's instructions and all fitted perfectly! To seal in any possible areas of colour bleed, various methods were used including liquid masking fluid to make sure all areas were covered.

MINTY!

The stage was now set for the final moments of this masking marathon:

A dry-fit of all prepped parts in pre-colour and primer



airbrushing the whole car in Zero's Pure White so all of those minty Tic Tacs got their colour. It all boiled down to this very moment, the big reveal. I couldn't wait to lift the masking to see how it all looked

underneath. Slowly and carefully I peeled away the masking and... Wow! What a result it had left. The white Tic Tacs stood out beautifully against the strong, solid green colour. There were some sneaky ▶



Colour-matched Zero Paints' Team Valier Motorsport solid green from jar to airbrush paint cup



Single coat clear which was applied between after green and prior to masking

Bodyshell after clear and after the sanding process ready for masking





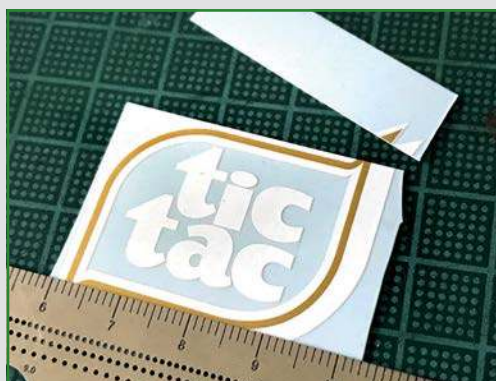
The laser cut Decalca's Tic Tac masks being laid as instructed and sealed with liquid masking fluid



A painstaking process which involved tidying up all of the minty logos by hand to ensure a clean finish



The finished result and awaiting decals to tie in the work



Here we see the author trimming away the top of this driver's side decal for better fitment on application later on



Bonnet now completed after the sanding and polishing process. To finish, three hood-pins will be added along the front



The iconic DTM rear spoiler with its large top aero part

The completed bodysell with photo-etch details and adjoining spoiler and bumper parts

The Ford GT Super Detail Kit

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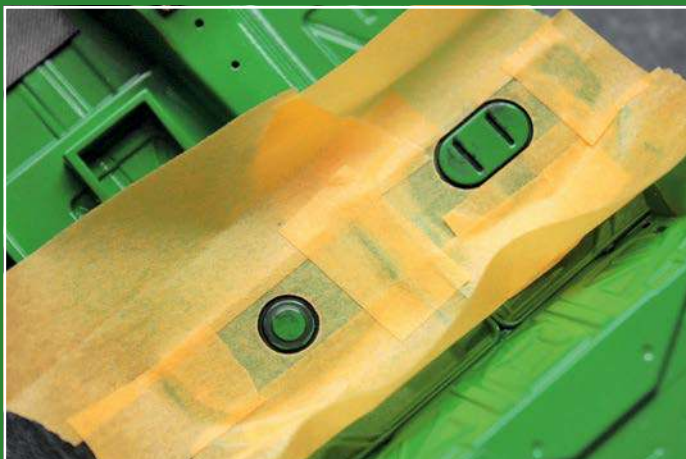


FULL-BUILD: MODEL MOTOR SPORT

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND ● KIT NO.B24007

The BMW's belly was not ignored: here we see the Lifecolor weathering products used to give it a race-worn appearance

Lifecolor:
www.airbrushes.com

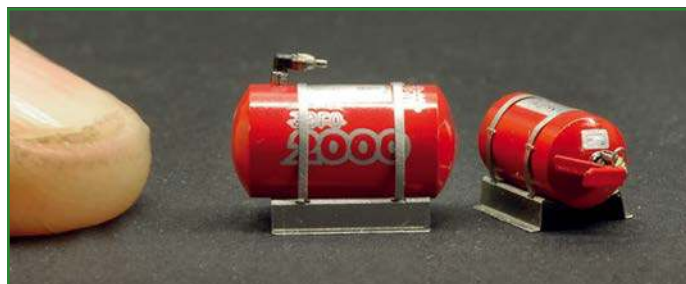


Masking-up for airbrush work. These are to represent rubber covers for quick access to the undersides

areas of colour bleed but they were all tidied up using the same Zero Paint and some Citadel acrylic white. This was achieved by blotting away any excess solvent to ensure safe brush application and then hand-painting where necessary.

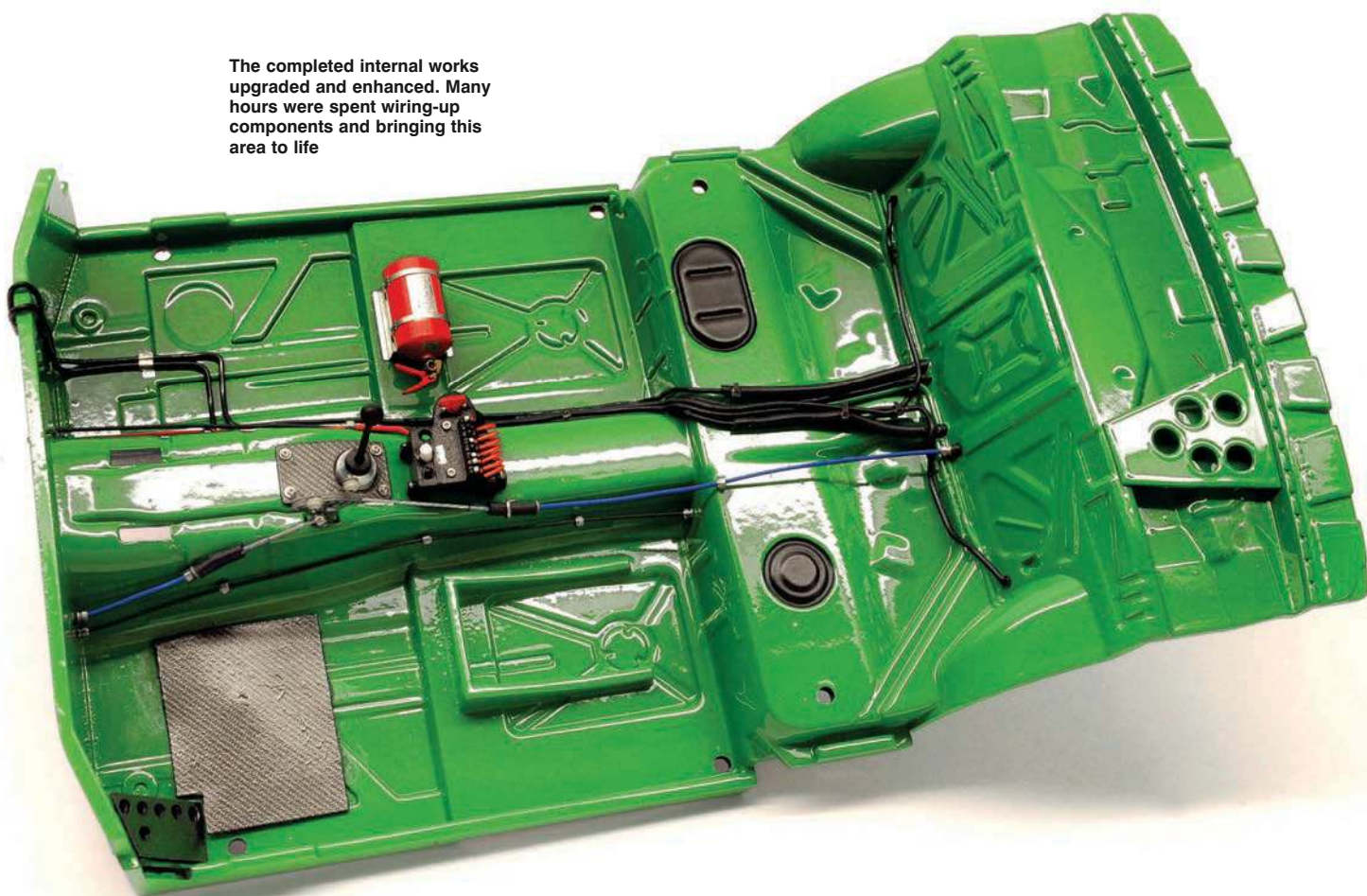
The final section was to apply the contrasting decal

livery and these, I must say, are amongst the best I've used. They conformed easily, were a joy to apply and the colours held great against the green. All that was left is to seal up the body and adjoining parts with Diamond Gloss 2k Clear and after a few days of curing, the sanding and polishing stages followed.



Hobby Design's fire safety system, painted and decals applied

The completed internal works upgraded and enhanced. Many hours were spent wiring-up components and bringing this area to life



CABIN FEVER

As this DTM car was a privately entered team and not backed by the manufacturer, finding correct references for the interior proved difficult at best. So working with what I had and taking an average of other similar E30 models in the DTM '91/'92 seasons, I used a bit from each team to recreate what I

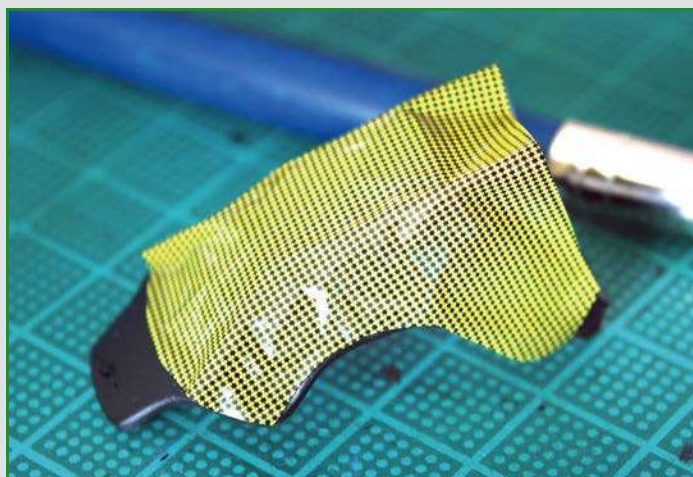
felt represented this classic. Upgrades included Hobby Designs' amazing fire safety system with its photo-etch, resin and metal parts, a whole replacement gear shift section with turned metal parts, Evergreen styrene wrapped in carbon-fibre decal finished up with etch and metal rivets, carbon accents plus other Evergreen styrene upgrades. ▶



Wires and hoses were tied together using ScaleLab photo-etched Zip-Ties and various other fittings for added realism

FULL-BUILD: MODEL MOTOR SPORT

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND ● KIT NO.B24007



Templates were made to ensure the correct amount of MFH decal was used for the rear seats. Then, careful manipulation was made using softener and heat



Two seats now in clear coat and during the drying process the matt clear dried to a flat finish. Only one of these will be fitted of course!



The completed driver's seat, front and rear, covered in microballoons for added texture and painted accordingly

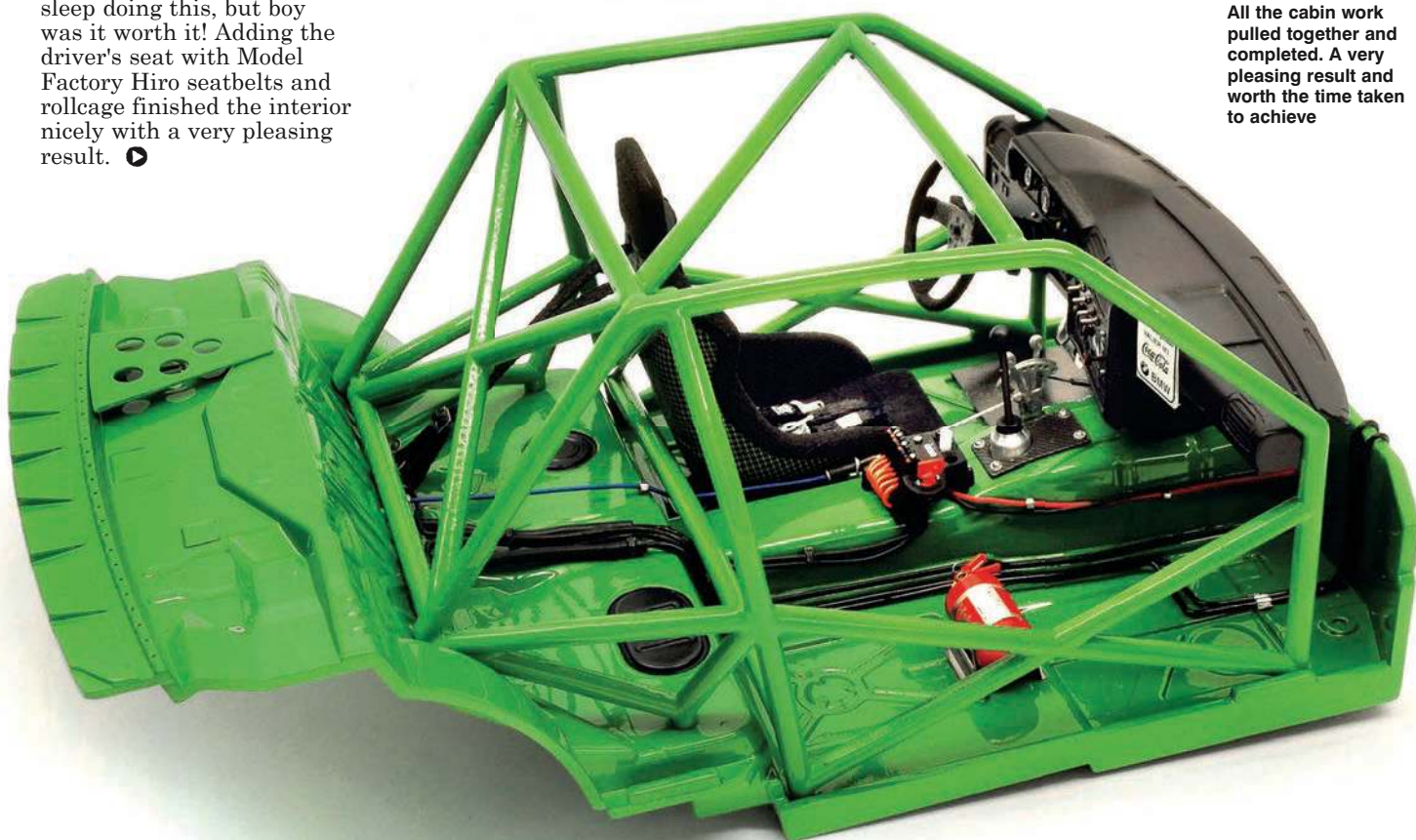
④ The dash had a full rework with lathed instruments, metal switches, push-buttons, more carbon-fibre accents and some trick painting to finish the look and then there were the electrics. For me, this was key to giving all that upgrade work some life and purpose. If it's fitted, it needs wiring-in, right? Lots of power cables were fed in and around the car from front to back using references and of course some artistic license. Believe me when I tell you I woke up doing this and went to sleep doing this, but boy was it worth it! Adding the driver's seat with Model Factory Hiro seatbelts and rollcage finished the interior nicely with a very pleasing result. ▶



The author applied logos and stitching from T2M to these MFH racing harnesses to finish the look



The completed racing seat, set up and ready for installation



All the cabin work pulled together and completed. A very pleasing result and worth the time taken to achieve

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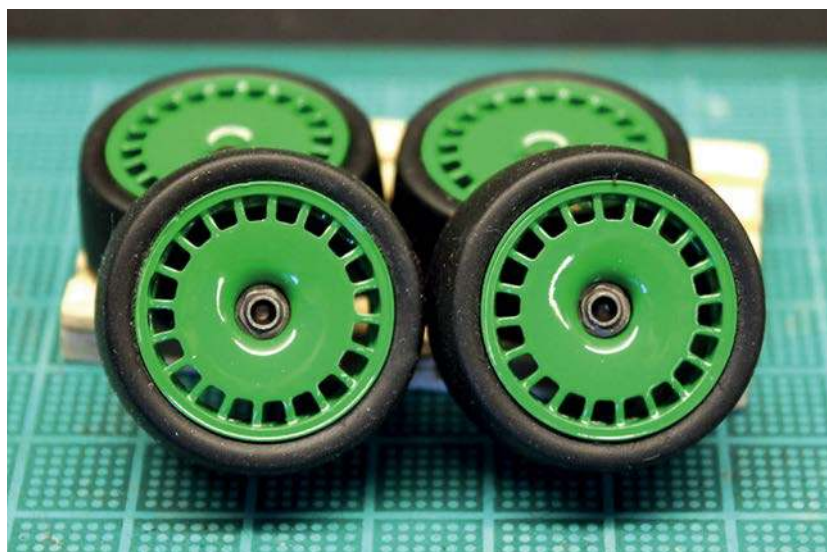
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FULL-BUILD: MODEL MOTOR SPORT

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND ● KIT NO.B24007



PREPPING THE OZ RACING WHEELS

Scale Production resin OZ Racing 18" wheels complete with centre hub nuts all painted and finished. The box-stock tyres fit directly over them perfectly

FINISHING UP

All that was left to bring this minted beauty to life were the windows, various photo-etched bonnet catches, some metal parts, fitting those gorgeous green 18" OZ wheels and marrying it all together. Without going too much into detail, the chassis work underneath also received a fair amount of work. It may not be seen much, but for me, was also an important area to work on. This was a hugely enjoyable model to work with. I love the ease of use which the Decalca products offer: reliable, top quality and lots of great subjects to choose. I'll definitely be using more in the future! ●

TECHSPEC...

BEEMAX 1:24 BMW M3 E30 '91 DEUTSCHLAND KIT NO.B24007

Materials;

Injection-moulded polystyrene, polycaps, synthetic rubber tyres, waterslide decals

Paints used:

- Zero Paints: Valier Motorsport Green (ZP-1464), Pure Brilliant White (ZP-1026), Zero Diamond shine 2k Gloss, Standard Single stage clear plus various other colours from across the Zero Paints range
- Various colours from the Tamiya, Citadel and Lifecolor ranges

Accessories and decals used:

- Decalca: livery; BMW M3 E30 Valier Team Tic Tac 1992 DTM (DCL-DEC006), 1:24 Window Frame BMW E30 window masks
- Scale Production: 18" OZ Racing wheels
- Hobby Design: Fire Safety System set, '91 photo-etch upgrade pack and the Beemax '91 Detail Up set
- Various Top Studio and Hobby Design rivets, switches, buttons and knobs
- ScaleLab Models: 1:24 Zip-ties
- Model Factory Hiro: Black 1:24 racing harness set
- Various cabling from 0.38mm to 1.2mm

Availability;

- Beemax kits and accessories are available online from: www.hiroboy.com
- Zero Paints, Hobby Design, Model Factory Hiro, Decalca: www.hiroboy.com
- ScaleLab Models: www.scalelabmodels.com
- Scale Production: www.scaleproduction.de



www.creativemodels.co.uk

Model by Wayne Hall

Model by Jeremy Moore

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GEE



I first 'encountered' the F-104 Starfighter in 1986, fascinated by the aircraft's sharp style and unique engine sound. Many F-104 plastic models have been

released over the years and I have built several of them. The most recent 1:48 model was a Hasegawa product, but a new-tool kit from Kinetic was introduced in



WHIZZ!

Kenji Yanai is quick off the mark in building the all-new 1:48 F-104G 'Luftwaffe Starfighter' from Kinetic. Here are his impressions of the kit

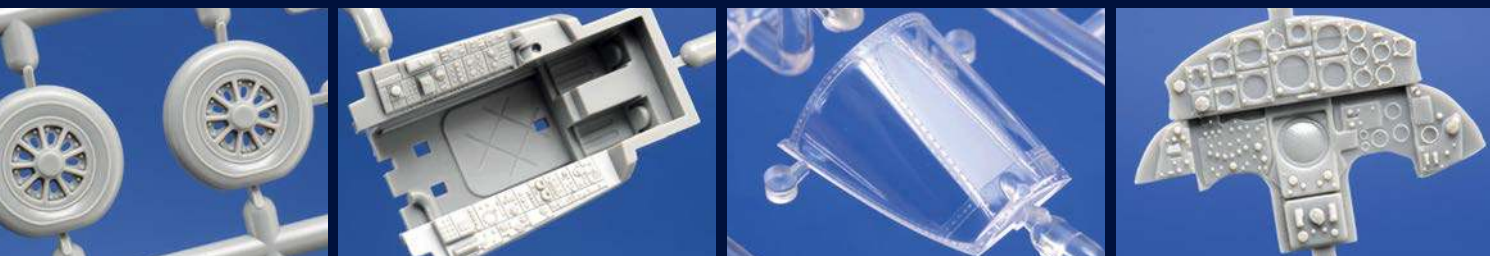


the summer of 2019. This new model has less rivet detail on its airframe than the Hasegawa offering, but this has no negative impact on the presentation of the

kit. Rather, I formed a good impression of this new approach. The reproduction of the electronic equipment bay and radar to the rear of the cockpit is the biggest feature

of this kit. Kinetic's moulding quality has improved significantly over the last few years and their models now feature sharp detail; the fit of parts has reached a

near-perfect level. With the F-104G, I think it was easier to build it in sub-assemblies, but of course one can just follow the sequence as described in the instructions. ►



FULL-BUILD: GOLD WAR AVIATION

KINETIC GOLD 1:48 LOCKHEED F-104G STARFIGHTER ● KIT NO.48083

❶ I mainly used lacquer paints and also Mr Color for the basic colours and details of the aircraft. I made the cockpit, electronics bay and radar visible so I emphasised the detail with enamel and oil paints. The decals that come with the kit are printed by Cartograf, which is a guarantee of high quality. I used the kit-supplied markings but my finishing references were based on photos of the real plane plus the Hasegawa painting guide. This is because the illustrations

in the Kinetic instructions didn't mention the details of this scheme!

The weathering wasn't too intense, I just faded the main shades using the pre-shading effect and applied some paint chipping effects along the edges of panels. By using AK Interactive's 'Weathering Pencils' for the surface effects, the chipping can be kept very subtle. Overall, Kinetic's new 1:48 F-104G is an excellent production that comes with a high degree of detail as standard. ●



The kit provides the pilot seat harness in photo-etched brass and once painted up, it looks pretty good





Looking directly down into the cockpit aperture, we can see the fabric-textured instrument coaming, radar gear in the nose and the pilot's side-consoles



The Kinetic Gold kit includes the avionics equipment to the rear of the cockpit and it would be a shame not to show it off!



The side-consoles feature excellent raised detail which just needs careful painting to highlight

“The decals that come with the kit are printed by Cartograf, which is a guarantee of high quality...”



FULL-BUILD: GOLD WAR AVIATION

KINETIC GOLD 1:48 LOCKHEED F-104G STARFIGHTER ● KIT NO.48083



Kinetic Model's releases have improved beyond recognition since their inception and each new kit out-does the previous one in terms of detail, fit and overall refinement



Bf 109G-6/AS

1/48

ProfiPACK
edition



eduard

Cat. No. 82163 www.eduard.com



W. Nr. 110087, Hptm. Horst Carganico, CO of I./JG 5,
Herzogenaurach, Germany, May 1944



W. Nr. 412807, Uffz. Heinz Zimmermann, 6./JG 27,
Fels am Wagram, Austria, July 1944



Stab I./JG 3, Gütersloh, Germany, July 1944



Hptm. Friedrich-Karl Müller, CO of 1./NJGr. 10,
Werneuchen, Germany, July 1944



Oblt. Manfred Dieterle, 2./EJG 2, Hagenow, Germany, December 1944

GET THE BUZZ!

BUILDING TAMIYA'S BEE-UTIFUL 1:35 SD.KFZ.165 'HUMMEL'

Erik Dreister builds Tamiya's new 1:35 Sd.Kfz.165 Hummel almost straight from the box





Available in late June 2019, Tamiya's late production 'Hummel' is already known to many of you and was the subject of a presentation in TMMI 285 July 2019. In this photo-article, I will focus on the building, a few improvements and the model in a dioramic scene with the figures and accessories provided in the kit. As usual with Tamiya, there were no problems to report, even for the assembly of the impressive and complex 15cm gun installed in the casemate. The design of this kit is

particularly well thought-out, making its construction and painting very straightforward and pleasurable.

It is possible – if desired – to split the model into several sub-assemblies to allow access to every corner of the fighting compartment and the gun. The extra time and attention given to painting and weathering was not be in vain: the details that abound will remain clearly visible on the finished model. The final assembly is a mere formality and the result is impeccable! So let's see how the kit came together.. ●

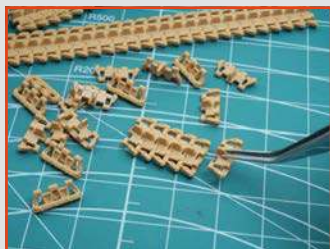
FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 15CM SCHWERE PANZERHAUBITZE 18/1 FAHRGESTELL PANZERKAMPFWAGEN III/IV (SF) SD.KFZ.165 HUMMEL LATE PRODUCTION ● KIT NO.35367

BUILDING THE HUMMEL'S LINK-AND-LENGTH TRACKS



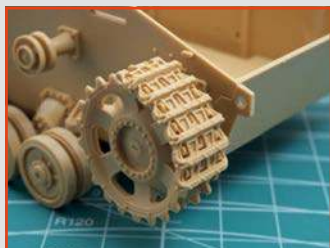
The tracks are moulded in separate sections and links. The ejector-pin marks are very discreet and are quickly erased with a modelling knife



The individual links were first assembled into four or five-link sections...



...before being glued together by applying small drops of Tamiya Extra Thin Liquid Cement at each junction



Before the cement was completely dry, the sections formed of individual links were still flexible and easy to form around the sprockets and idlers



The top track runs are moulded with a very realistic natural sag between the return rollers

ASSEMBLING THE HUMMEL'S 15CM GUN



The ejector-pin marks visible on the internal faces of the shield were carefully sanded off or, as here, filled with a little modelling putty



The standard kit-supplied barrel comes in two halves and with some accurate cementing and sanding once dry, looks perfectly good. To eliminate these steps, the author used Tamiya's aftermarket aluminium item (12688)

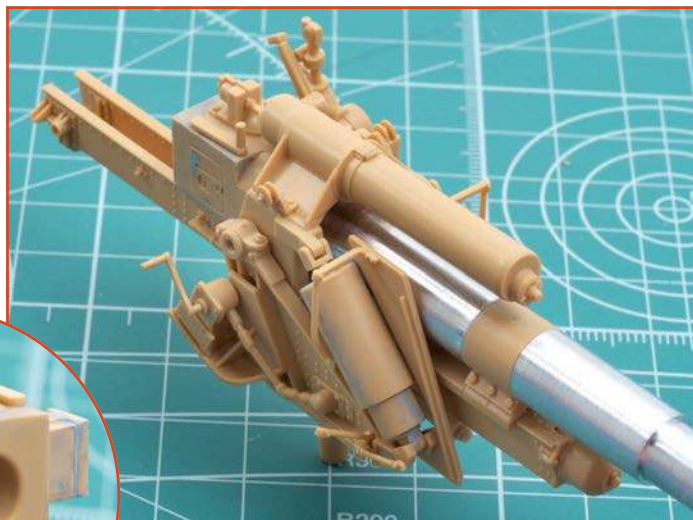
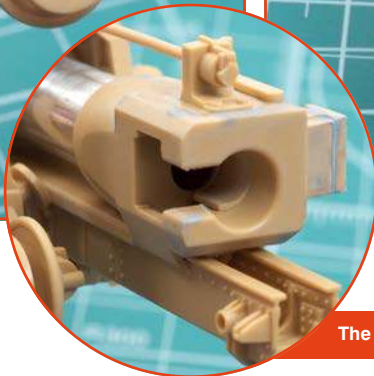
One big advantage of the aluminium barrel is the rifling inside the muzzling



The metal barrel fits perfectly with the moulded polystyrene parts



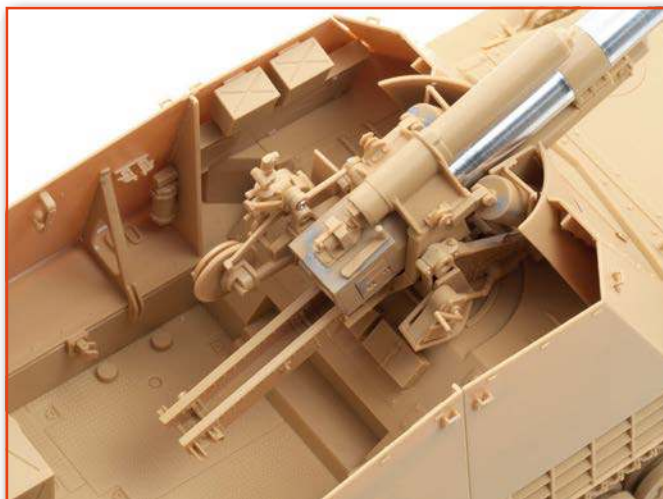
To remain articulated, some elements of the elevation/traverse system are assembled with mini-screws for which a mini screwdriver is provided. The visible screw-heads will have to be filled with putty before painting



The gun mount is teeming with detail and the whole thing is designed to remain fully positionable, including the recoil brake on the top and the two large pistons on each side of the cradle

The two-piece breech can be presented open or closed

Once installed in the casemate, the 15cm howitzer will remain perfectly visible



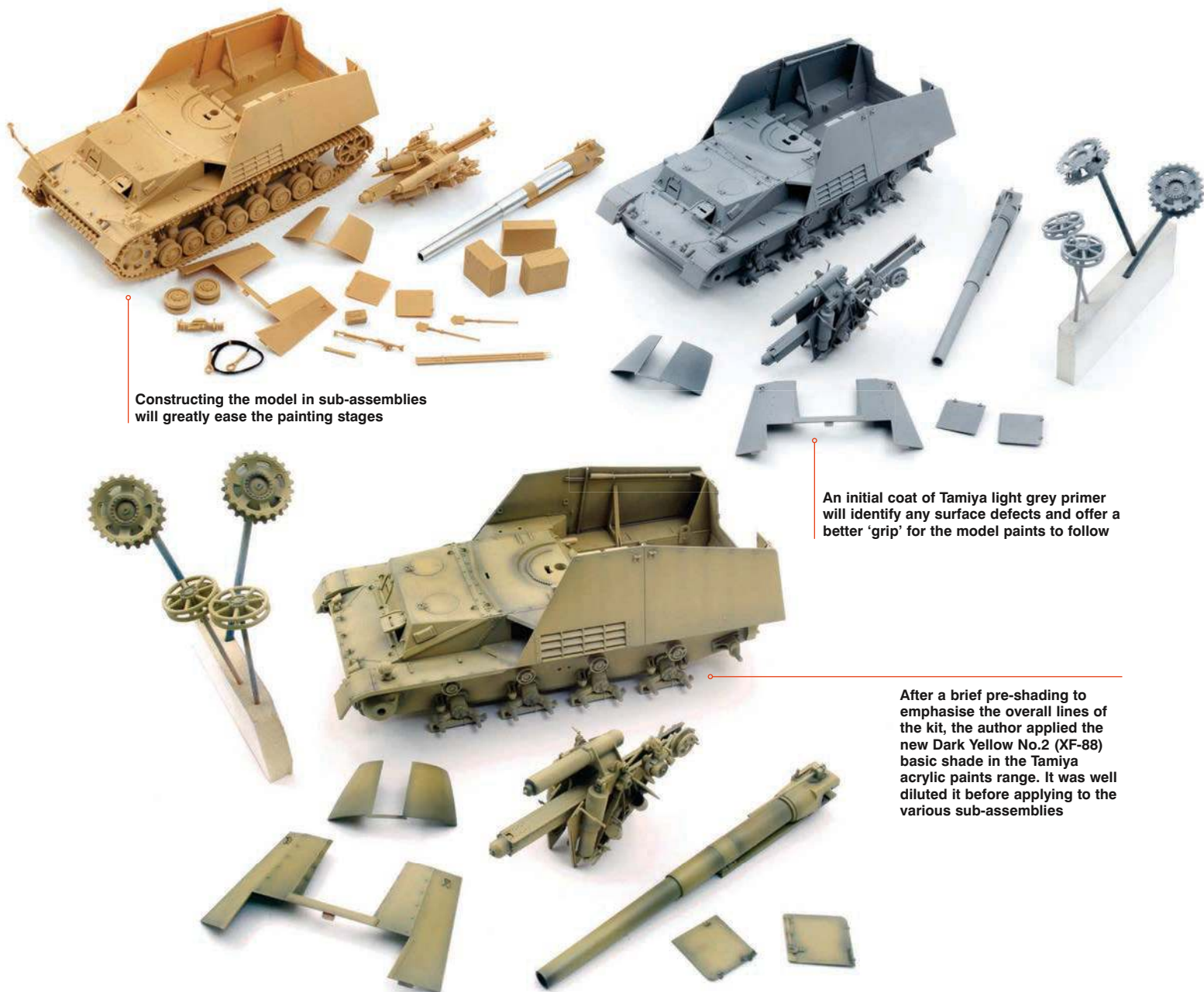
The new Tamiya kit is beautifully designed and assembled without problem. The addition of the aluminium barrel is an undeniable plus but not mandatory



FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 15CM SCHWERE PANZERHAUBITZE 18/1 FAHRGESTELL PANZERKAMPFWAGEN III/IV (SF) SD.KFZ.165 HUMMEL LATE PRODUCTION ● KIT NO.35367

PAINTING THE HUMMEL'S THREE-TONE CAMOUFLAGE



Constructing the model in sub-assemblies will greatly ease the painting stages

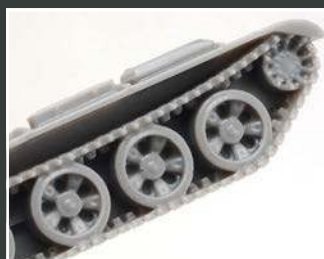
An initial coat of Tamiya light grey primer will identify any surface defects and offer a better 'grip' for the model paints to follow

After a brief pre-shading to emphasise the overall lines of the kit, the author applied the new Dark Yellow No.2 (XF-88) basic shade in the Tamiya acrylic paints range. It was well diluted it before applying to the various sub-assemblies

Mini Review...

BRENGUN 1:144
T-62 SOVIET MBT
www.brengun.cz

The tiny scale of 1:144 isn't often regarded by armour modellers as a practical size for tanks, trucks and other armoured fighting vehicles, but one thing it does allow is the opportunity to build dioramas of much larger scenes, skirmishes and even entire battles. Brengun from the Czech Republic are masters in the art of small-scale kits and their latest depicts the Soviet T-62 main battle tank from the Cold War era and it is a little beauty. Cast in resin, it carries an impressive level of detail, with one-piece tracks/wheels and a sheet of PE brass for the smallest parts.

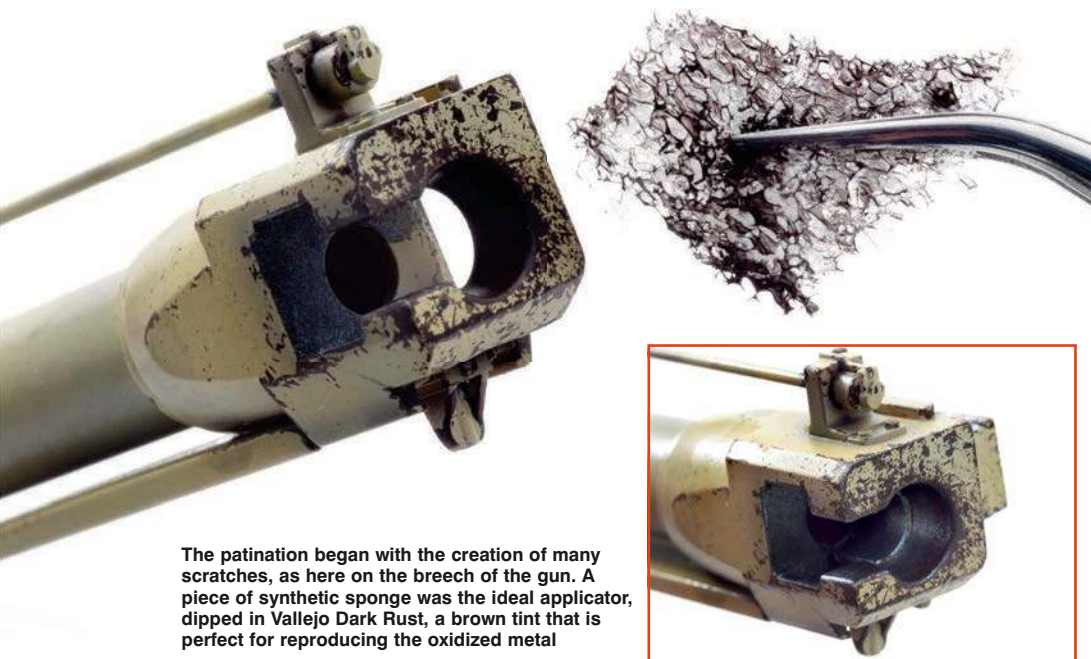




Convinced by the rendering of the XF-88, the author wanted to try the two other 'Germanic' colours issued recently by Tamiya. Dark Green No.2 (XF-89) proved to be perfect with its very realistic muted appearance. On the other hand, the author was baffled by the very olive colour of the Red Brown No.2 (XF-90). He chose to return to the traditional Red Brown (XF-64) to which was added a drop of Orange (X-6)

The decals provided are extremely refined. They were sealed between two layers of gloss varnish to blend completely with the surface

WEATHERING THE HUMMEL



The patination began with the creation of many scratches, as here on the breech of the gun. A piece of synthetic sponge was the ideal applicator, dipped in Vallejo Dark Rust, a brown tint that is perfect for reproducing the oxidized metal





Build Your Dream!

LEVEL 4


NEW TOOL

04952 Airbus A321neo, 1:144

LEVEL 5


03863 Heinkel He111 H-6, 1:48

LEVEL 4


New Parts

05688 Gift Set - Spitfire Mk. IIa 'Iron Maiden', 1:32

LEVEL 4


03879 F-104 G Starfighter RAAF/BAF, 1:72

LEVEL 4


New Parts

05165 Patrol Torpedo Boat PT-579/PT-588, 1:72

Available from all good model stockists and online from

hobbycraft

hobbycraft.co.uk/brand/revell

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 15CM SCHWERE PANZERHAUBITZE 18/1 FAHRGESTELL PANZERKAMPFWAGEN III/IV (SF) SD.KFZ.165 HUMMEL LATE PRODUCTION ● KIT NO.35367



The floor of the casemate was largely weathered with the help of the synthetic sponge. To bring out the surface wear, the author used the dark yellow base colour over the areas in green and brown. The Vallejo Dark Rust oxidised metal shade was used only (or almost only) for the lightest parts painted in Dark Yellow XF-88. Colour-washes of Tamiya Panel Line Accent Color (Dark Brown) were then applied in every nook and cranny and around the raised detail using a pointed brush. After a few minutes, vertical streaks were created on the walls of the gun shield with a flat brush, lightly moistened with white spirit



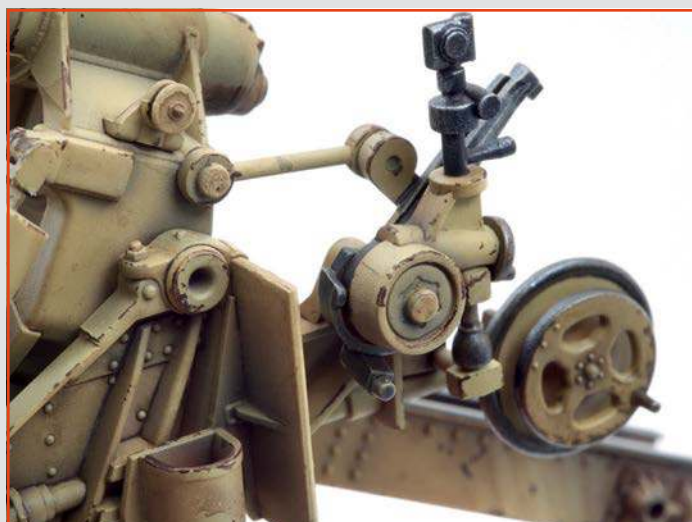
For a more precise finish, the ammunition cases were painted separately then finally cemented into their locations



This was also the case with the machine gun and its ammunition boxes



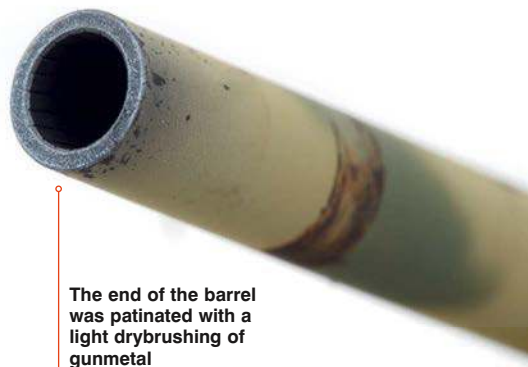
The traverse platform of the barrel was patinated with black Panel Line Accent Color which perfectly simulates the traces of grease. Once the 'Accent Color was dry, simply apply a few drops of gloss or satin varnish to give it a very natural, greasy appearance



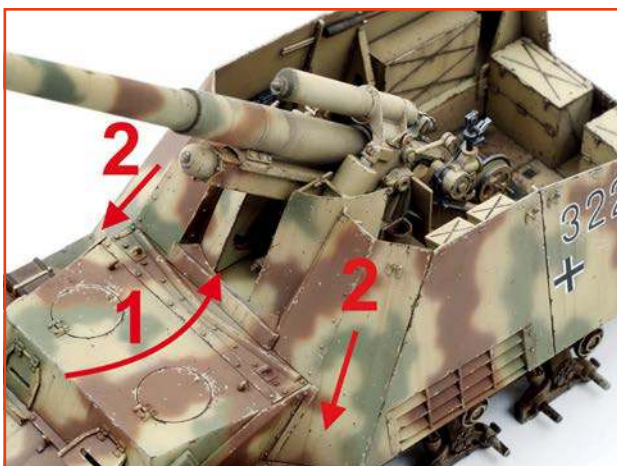
The instructions suggest painting the entire aiming system in a steel colour, but the author chose to treat the various elements that compose it in different finishes



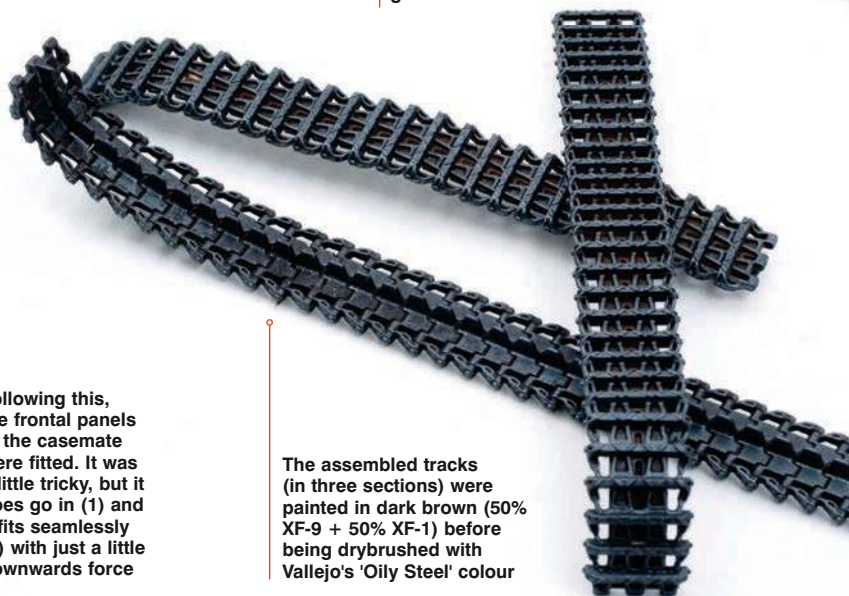
To install the gun, it was first positioned on its traverse pin



The end of the barrel was patinated with a light drybrushing of gunmetal



Following this, the frontal panels of the casemate were fitted. It was a little tricky, but it does go in (1) and it fits seamlessly (2) with just a little downwards force



The assembled tracks (in three sections) were painted in dark brown (50% XF-9 + 50% XF-1) before being drybrushed with Vallejo's 'Oily Steel' colour

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This is the most complete study of the role of Panzers in the Battle of Berlin yet published. At 392-pages, the book is lavishly illustrated with 360 mostly unpublished photographs that take the reader from the retreat at Seelow to collecting wrecks from central Berlin. In addition to informative text and hundreds of photos, many pages include a QR code – just point your smartphone camera at the code to show the scene today in Google Street View, while a separate map shows Berlin as it was in 1945 and plots the locations of the wrecks. To complete the coverage, acclaimed military artist Felipe Rodna has created sixteen pages of exquisite specially-commissioned artwork.

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

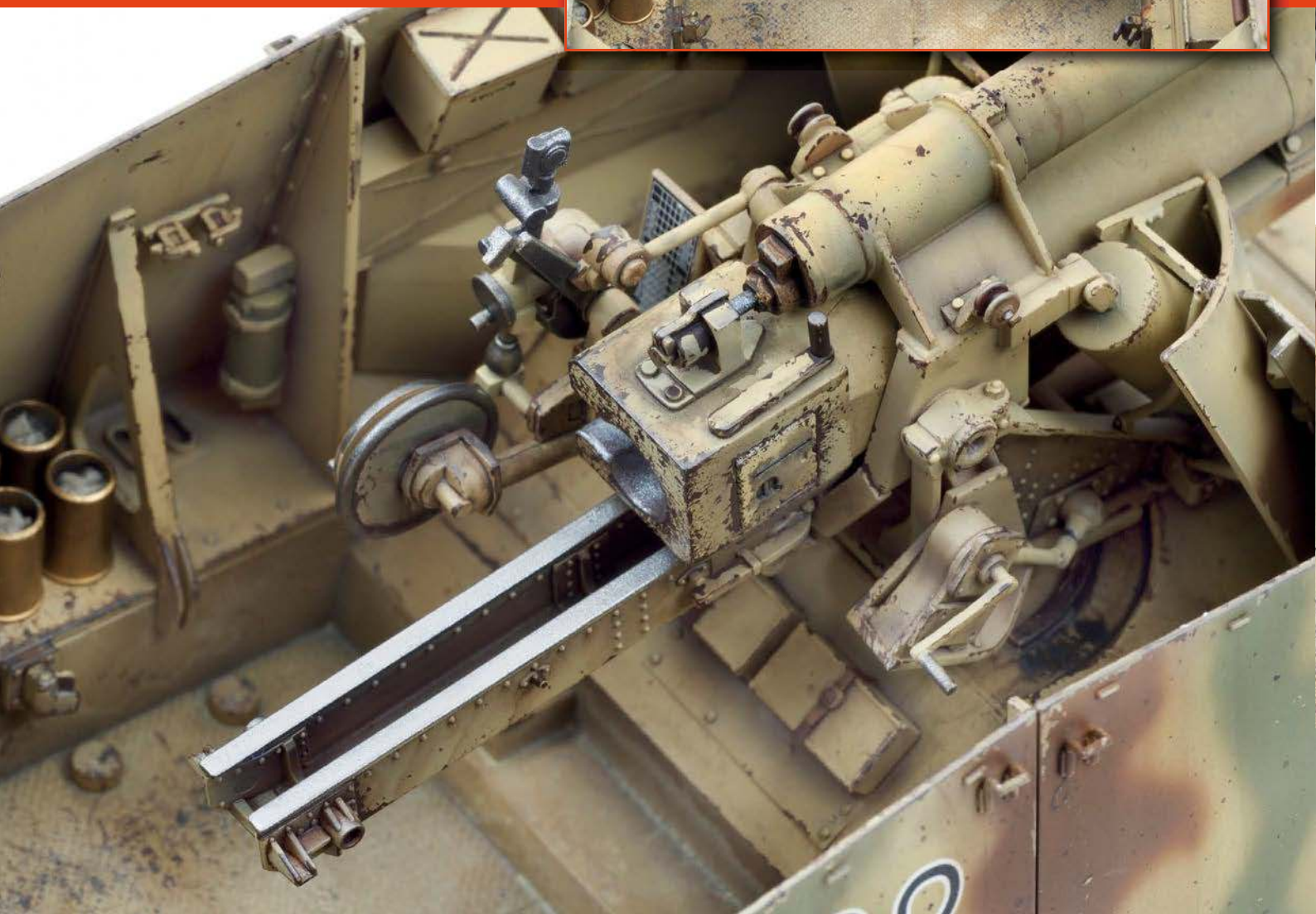
TAMIYA 1:35 15CM SCHWERE PANZERHAUBITZE 18/1 FAHRGESTELL PANZERKAMPFWAGEN III/IV (SF) SD.KFZ.165 HUMMEL LATE PRODUCTION ● KIT NO.35367

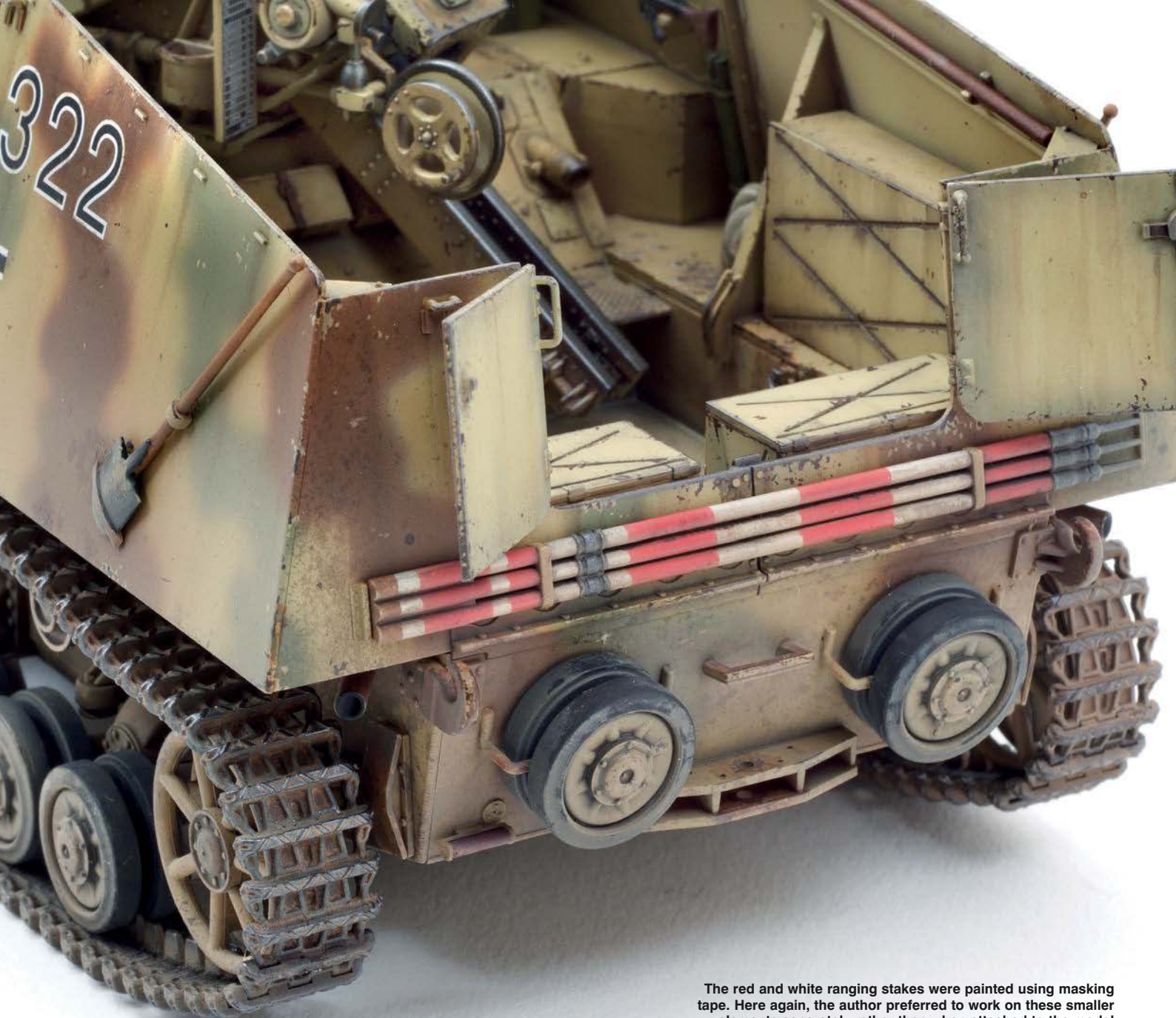
THE HUMMEL IN CLOSE-UP



The shells provided are empty (after firing). The author chose to add their propulsive charges, created with small quantities of putty. Depending on their size, these charges could propel the shells different ranges. The floor of the casemate was dirtied-up with XF-52 Flat Earth, heavily diluted with tap water and applied by brush

The inside of the casemate remains fully visible and allows the observer to discover the patient weathering work done on the barrel and the various internal elements. Some exposed metal paint-chips were made with an HB pencil

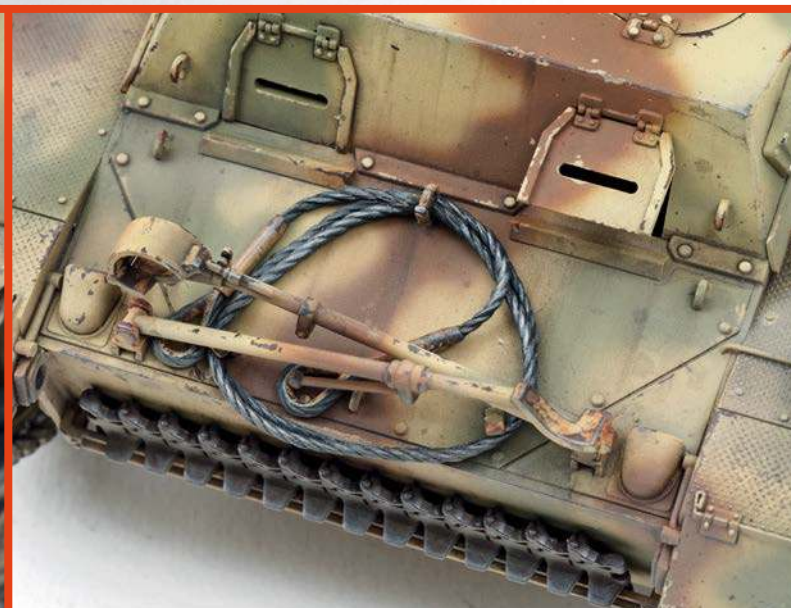




The red and white ranging stakes were painted using masking tape. Here again, the author preferred to work on these smaller elements separately rather than when attached to the model



Here's a little trick to make the jack look more interesting and realistic: it was painted it in sand yellow rather than the dark yellow base-colour of the vehicle for contrast



The towing cable was painted black and then drybrushed with a steel tint before being installed

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 15CM SCHWERE PANZERHAUBITZE 18/1 FAHRGESTELL PANZERKAMPFWAGEN III/IV (SF) SD.KFZ.165 HUMMEL LATE PRODUCTION ● KIT NO.35367



“The new Tamiya kit is beautifully designed and assembled without problem...”



TECHSPEC...

TAMIYA 1:35 SD.KFZ.165 HUMMEL LATE PRODUCTION KIT NO.35367

Materials :

Injection-moulded sand-coloured polystyrene, poly caps, nylon cord, metal screws and mini screwdriver, waterslide decals

Accessory used:

Tamiya: Aluminium barrel tube (12688)

Paints used:

- Tamiya Spray: Light Grey Primer 87042
 - Tamiya Acrylics: XF-1 Flat Black, XF-2 Flat White, XF-15 Flat Flesh, XF-52 Flat Earth, XF-57 Buff, XF-64 Red Brown, XF-72 JGSDF Brown, XF-88 Dark Yellow No.2, XF-85 Rubber Black, XF-89 Dark Green No.2, XF-9 Hull Red, X-6 Orange, X-10 Gun Metal, X-11 Chrome Silver, X-22 Clear, Paint Retarder (Acrylic) 87114
 - Vallejo Acrylics: Dark Rust and Oily Steel
- #### Other items used:
- Tamiya: Panel Line Accent Color Black (87131) Dark Brown (87140) Weathering Master Set A (87079)
 - Diorama Texture Paint Earth (87121), Grass Effect Khaki (87117), Green Grass (87111)
 - Faller: Synthetic grass for model railways
 - Mig Productions: European Earth Pigment
 - HB pencil
 - Wooden base (Cultura), cardboard (light relief of the decor)

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



NEW MODEL KIT



1/16
A.MIG-8503

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In **October of 1936**, the first batch of **Panzer I Ausf.A** arrived in Seville (Spain) to form the first three companies established at the beginning of the Spanish Civil War. This iconic vehicle used by the national side during the **Civil War** has a fascinating history. This specific version was modified with the installation of the **Italian Breda 20mm machine gun**, giving rise to the **Panzer I Breda**.

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EDUARD, CZECH REPUBLIC

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

Airfix's 1:24 Grumman F6F-5 is the recipient of four new detail sets this month, sharpening up and refining some critical details of this extraordinary kit. With a full engine provided as standard in the box, it is a natural target for photo-etched attention and Eduard have designed some useful 'sheet metal' parts for its cowl and hot-air flaps (23033). No doubt there will be further enhancements for the F6F-5's powerplant but this is a positive start.

In the cockpit (23032), the model gets a whole new, pre-painted instrument panel with gloss-varnished dial faces, a replacement throttle quadrant, radios that fold up from flat panels plus side-console details and placards. The brass pilot's seat looks impressive in 1:24 and all it needs is a harness set which comes separately (23034). Finally (for now) the main undercarriage bay roofs are fully worked-over with brass parts, adding a lovely extra edge of complexity here.

Other delicate detailing delights this month include cockpit sets for Revell's 1:32 Bf110C-7 and P-51D-5 Mustang, hull exterior parts for Zvezda's 1:35 SU-85, a gorgeous DB605 engine for Eduard's own 1:32 Bf109E plus a pair of ejection seats for Tamiya's 1:48 F-14D Tomcat, in case you don't want to replace the entire cockpit.

1:35 PHOTO-ETCH

- Soviet SU-85 Soviet SPG (36424) for Zvezda

1:32 PHOTO-ETCH

- Messerschmitt Bf110C-7 interior (32951) for Revell
- P-51D-5 Mustang interior (32920) for Revell

1:24 PHOTO-ETCH

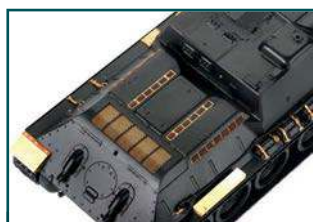
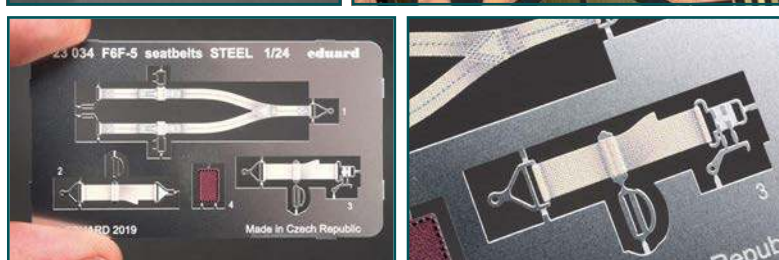
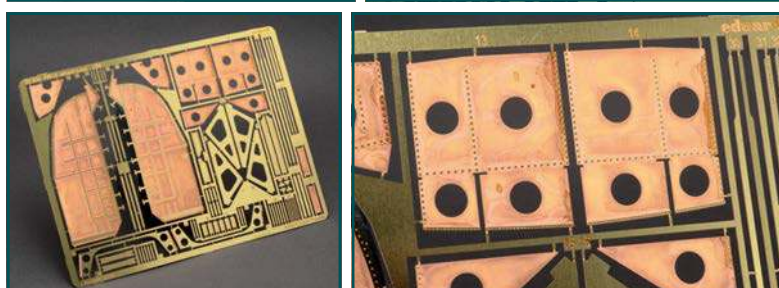
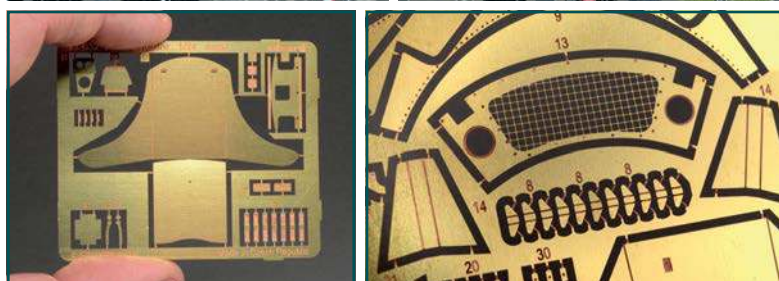
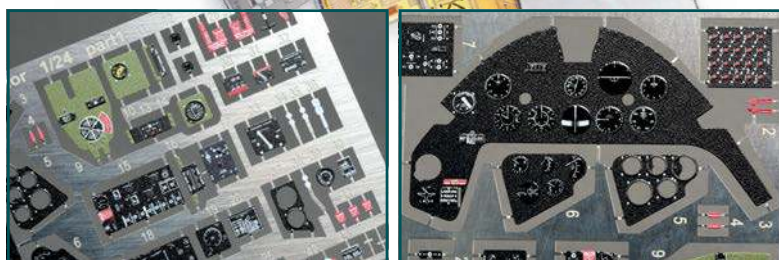
- Grumman F6F-5 Hellcat interior (23032) for Airfix
- Grumman F6F-5 Hellcat engine (23033) for Airfix
- Grumman F6F-5 Hellcat seat belts (23034) for Airfix
- Grumman F6F-5 Hellcat wheel bays (23035) for Airfix

BRASSIN 1:48

- F-15D Tomcat ejection seats (648471) for Tamiya

BRASSIN 1:32

- Messerschmitt Bf-109E engine (632137) for Eduard



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MISSION MODELS, USA

www.missionmodelsus.com

Some new metallics have been released by Mission Models and specifically they will be very handy for painting the shell casings for self-propelled howitzers, tanks and artillery. As with many metallic finishes, they will work best when sprayed over an undercoat of gloss black, or MMP's new gloss white base. Also new is a 'clear primer' for transparent parts such as canopies and car windscreens. This material will fill and hide fine scratches in the plastic and give a much brighter shine than the moulded parts unfinished surfaces can offer.

- **GOLD MMC-003**
- **BRASS MMC-002**
- **RAF HIGH SPEED SILVER MMM-009**
- **GUN METAL MMM-010**
- **GLOSS WHITE BASE MMGWB-002**
- **TRANSPARENT (CLEAR) PRIMER MMS-007**



ABER, POLAND

www.aber.net.pl

If you have Great Wall Hobby's 1:35 Krupp 12.8cm PaK44 anti-tank gun kit, you can now give it a serious upgrade with this stunning barrel set from Aber. The gun tube is in two halves that screw precisely together and the huge 'pepper-pot' muzzle brake is milled to perfection in brass. This too has screw-together sections and is a little masterpiece in metal.

1:35 BARREL WITH MUZZLE BRAKE FOR GERMAN 1:35 KRUPP 12.8CM PAK44 ANTI-TANK GUN (35 L-264) FOR GREAT WALL HOBBY

AMMO BY MIG, SPAIN

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Ideal for the post-apocalypse dioramas currently in-vogue, this set of metal and plastic toxic waste drums (all solid-cast in polyurethane resin) will add an extra touch of colour and realism to your dystopian scene. The set provides five types of drum (X2 of each) plus a decal sheet with 'radioactive', 'biohazard', 'flammable' and 'toxic waste' symbols which give the drums the perfect finishing touch. Superb!

- **1:35 TOXIC & WASTE DRUM SET (MP35-414)**



BRENGUN, CZECH REPUBLIC

www.brengun.cz

The AAI RQ-7 'Shadow' is an American unmanned aerial vehicle (UAV) used by the United States Army, Australian Army and Swedish Army for reconnaissance, surveillance, target acquisition and battle damage assessment. (Wikipedia). Brengun's new kit is in the popular scale of 1:48 and cast in around fifteen grey resin components, plus photo-etched brass parts and waterslide decals. It's a superb little kit and would make the ideal accessory in a modern-era diorama.

Also new from Brengun is a 1:144 Soviet T-62 MBT, Kaeble Z6R fuel truck and Yokosuka MXY-7 Ohka model 22. In 1:72 we have a very neat set that converts the engines in Tamiya's 1:72 Mosquito to two-stage Merlins.

1:144

- T-62 MBT Soviet tank (BRS144046)
- Kaeble Z6R (BRS144045)
- Yokosuka MXY-7 Ohka model 22 (BRS144043)

1:72

- DH.98 Mosquito two-stage supercharger Merlin nacelles set (BRL72171) for Tamiya

1:48

- RQ-7B Shadow UAV (BRS48009)



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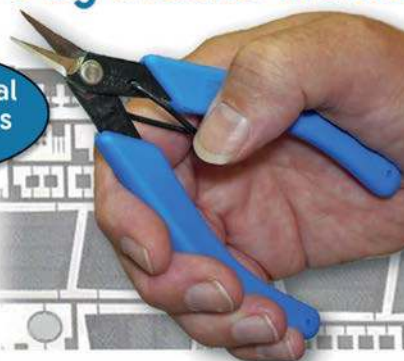
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DRAGON, CHINA

SD.KFZ.166 STU.PZ.IV 'BRUMMBÄR' MID-PRODUCTION

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, SVT, WS • ITEM NO.6892

The 'Brummbär' (grumbling bear) was never called this by the Germans. They called it the Sturmpanzer or 'Stupa' and the vehicle was designed to obliterate buildings and fortifications. The vehicle carried a 15cm howitzer in a massive armoured casemate which seriously overloaded the chassis. This kit represents the third version (ausf.III) with the driver using a periscope only, and a longer armoured sleeve around the gun. The Stupa was used on all fronts and the decal options include Italy, Russia and Germany. The first significant feature of this kit is that most major parts are duplicated, with versions with and without Zimmerit. All of these Stupas had the coating applied at the factory. Dragon have done very well to replicate the appearance of this anti-magnetic paste, but advanced modellers may feel that the representation is too subtle, and may want to add their own Zimmerit texture to the plain surfaces. The whole kit is moulded in superbly crisp detail, and Dragon have really upped their game here. The sharp details are accurate and precise, making this a gorgeous kit to assemble with precision and excellent fit. The tracks are supplied as one-piece DS soft plastic strips and while this eases assembly, there is a loss of detail and lack of realistic 'sag' in the upper run. Optional individual links will be preferred by many modellers who seek the ultimate detail. **CLS**

- Choice of assembly with or without pre-moulded Zimmerit coating
- One-piece DS tracks are loved by some, but disliked by other modellers



REVELL, GERMANY

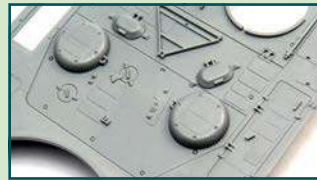
LEOPARD 2A6/A6NL

www.revell.de/en

SCALE: 1:35 • MATERIALS: IM, SVT, WS • ITEM NO.03281

The Leopard tank needs no introduction; this iconic tank has been used by many nations. The A6 version is a significant improvement over previous versions, with a longer gun and other changes. It is currently in service with at least five European nations, plus Canada and is one of the best MBTs in the world. The kit avoids the use of etched brass and the careful plastic moulding produces a really striking model which captures the look of the beast. Revell provide wire and clear acetate, plus vinyl tow cables and the modeller will need care in assembly to fix these parts. The quality of moulding is superb, with the complex vents crisp and clear of any flash. Revell's approach to the large round screens on the engine deck is very clever, with the moulded mesh revealing the look of the supporting vents below. This is difficult to do in plastic, but is very convincing. Similarly, the new gun barrel is moulded in two parts, but the detail on the surface is very well represented. The options in the kit allow for German and Dutch versions, which differ in machine gun and smoke dischargers, for example. The colour schemes of the two nations are identical, as standard NATO scheme, and the decals are small, so only an expert would be able to spot the different types. **CLS**

- Superbly moulded details capture the look of this mean-looking tank
- The perforated turret stowage bins might be better replaced in etched brass



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ZVEZDA, RUSSIA

GERMAN MEDIUM TANK PANZER IV AUSF.G

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, WS • ITEM NO.3674

The Panzerkampfwagen IV was the mainstay of the German forces, remaining in production before and throughout WW2. The G version was the first type produced in large numbers, fitted with the long and powerful 7.5cm gun and was turned out by the factories from mid-1942 to mid-1943. This kit from Zvezda comes with full side skirts and spaced turret armour, giving the kit a really striking appearance. The turret has a reasonable interior, with turret basket and gun breech. To keep down the number of individual parts, the tracks have been extremely well moulded in link-and-length style, with hollow guide horns and super detailing. They will be a highlight of the kit, with accurate sag in the upper run... but all of the lovely track will be hidden by the side skirts! In other places, the model is somewhat simplified and it does lack some of the detail that is found in other kits. The drive sprockets, for example, are too 'dished' and the spade is too small. However, Zvezda have produced a kit that is easy to assemble and importantly is almost half the price of some others on the market. Decals are provided for two vehicles based in Russia. **CLS**

- + Tracks are well done, giving easy construction, a quick build, and low cost
- Slightly over-simplified in some areas, which may deter some modellers



AIRFIX, UK

BLACKBURN BUCCANEER S.2C

www.airfix.com

SCALE: 1:72 • MATERIALS: IM, WS • ITEM NO.AO6021

Many many years ago I remember my dad building the old Airfix Blackburn Buccaneer and me being fascinated by the rotating bomb bay door. Now, we have an all-new kit of this Coke bottle-shaped maritime attack aircraft and I can have that pleasure all over again, although this time the bay door is fixed. Airfix have chosen the S.2C variant for their new-tool model with markings for two Fleet Air Arm Buccaneers from the early 1970s: XV336 of No.800 Naval Air Squadron, HMS Beagle, June 1971 and XV154 of No.809 Naval Air Squadron, HMS Ark Royal, January 1972. Both aircraft are in overall Extra Dark Sea Grey which is offered by several paint manufacturers: naturally, Airfix lists the Humbrol shade, No.123. The kit comes on five sprues of pale grey polystyrene plus one in clear, for the canopy of course but also providing transparent wingtips so the navigation lights can be neatly and easily masked off. Detail on the airframe is well done if a little heavy where the panel lines are concerned, but this is only from looking at the raw plastic parts; under a layer of paint this will diminish. A little warping in the lower wings was present in this sample but it can be easily massaged out by hand and when the upper wing halves will help keep it straight. **MN**

- + Wonderful FAA subject and good to see a new-tool kit of this classic Cold War jet
- Panel lines a tad deep and some warping in the wings, but neither are deal-breakers



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



BRENGUN, CZECH REPUBLIC

HAWKER TYPHOON MK.IB DESERT AND LUFTWAFFE TRIALS

www.brengun.cz

SCALE: 1:72 • MATERIALS: IM, PE, WS • ITEM NO. BRP72039

Brengun's 1:72 Hawker Typhoon Mk.Ib is a lovely little project for modellers with some experience of artisan kit assembly, this meaning its plastic mouldings will need a little more clean-up, some attention when test-fitting plus precise and sparing applications of cement. The additional effort will be rewarded by an accurate and beautifully detailed model, with the satisfaction of having built something a little different than usual. This edition of the Typhoon depicts the 'car door' variant and it comes with decals for three RAAF machines, all based in North Africa during 1943 and all finished in the 'model-genic' mediterranean camouflage scheme of Dark Earth/Middle Stone over Azure Blue. There's no doubt that these colours look terrific on almost any RAF fighter, but the other markings-option is less attractive, at least in this author's eyes. It represents a captured Typhoon in the 'Zirkus Rosarius' scheme of dark green uppers over yellow undersides/tailplane. It is interesting of course, but just looks wrong! For the latter option, the decal sheet provides two-part swastikas for fin that must be positioned on the model's surface by the builder: no big deal. Photo-etched seat harnesses and a ventral air-intake in resin are also included. **MN**

- + Wonderful subject, excellent detail and some attractive and interesting markings-options
- Some experience will help, but quite approachable for enthusiastic and patient modellers



HAULER, CZECH REPUBLIC

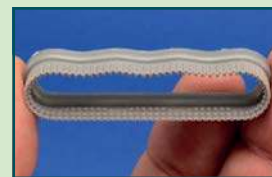
TETRARCH MK.VII

www.hauler.cz

SCALE: 1:72 • MATERIALS: R, PE, WS • ITEM NO. HLP72032

The Light Tank Mk VII (A17), also known as the Tetrarch, was a British light tank produced by Vickers-Armstrong in the late 1930s and deployed during the Second World War. The Tetrarch was originally designed as the latest in the line of light tanks built by the company for the British Army. (Wikipedia). It wasn't a particularly effective design and was obsolete by the time of D-Day, but even so, some were deployed to Normandy in June 1944. It was a simple design with one very curious feature: the wheels steered like a car, bending the track longitudinally to corner, rather than brake-steering like a conventional tank, although it could do that too. Hauler have released a kit of this curious little seven-ton beast and what a beauty it is too. The hull is a single, solid casting (with integral track guards) to which the roadwheels/idlers and two sprockets are directly fixed on short stub-axles. The tracks are astonishing: one-piece castings that slip over the fitted wheels. They will need very careful trimming from their casting blocks (a razor saw would be best) and the detail is exquisite. The riveted bow-plate is provided in photo-etched brass as is the shovel, light brackets and other small fittings. **MN**

- + A fascinating tank and a superb little resin kit (ex-Extra-Tech). Decals for two tanks: England or Normandy June '44
- Careful work with a razor-saw will be needed to separate some parts from their casting sprues



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EDUARD, CZECH REPUBLIC FW190A-8/R2 PROFIPACK

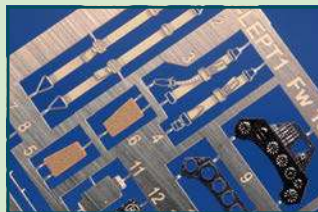
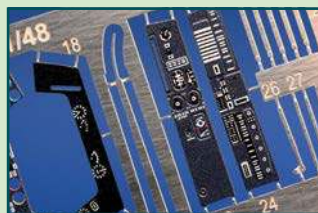
www.creativemodels.co.uk www.eduard.com

SCALE: 1:48 • MATERIALS: IM, PE, WS • ITEM NO.82145

The Focke-Wulf Fw190A-8 entered production in February 1944 and the subsequent A-8/R2 sub-variant – as kitted here by Eduard – saw its outer-wing 20mm cannons replaced by 30mm MK108 cannons. The cockpit sides were up-armoured with appliqué panels and the engine was kitted-out with a nitrous-oxide system to give the fighter a quick burst of power when in a tricky situation, or to gain altitude quickly. Eduard's kit makes use of the sprues from pre-existing Fw190 A-series releases and adds new fuselage mouldings that incorporate the cockpit armour, a new lower wing with the MK108 bulges and armoured engine cowling ring. It should be noted that this is in Eduard's recent new-generation Fw190 series and not the much more complex kits that were first issued in 2006 and is thus easier to build. Having said that, the kit is packed with detail and it is still no quick-build project, in a good way! And this is the ProfiPACK edition which comes with photo-etched details and the handy pre-cut, canopy masking sheet. The ventral fuel-tank rack is provided and with a little work the modeller could also add Eduard's 'BRASSIN' WGr 21 rocket-propelled mortar set for added punch. **MN**

+ A fantastic late-war, up-armoured beast of an Fw190 and a beautifully detailed kit from Eduard

- Nothing wrong here, everything you need is in the box



ZOUKEI MURA, JAPAN KAWASAKI KI-45 KAI KO/HEI TORYU (NICK)

www.volks.co.jp

SCALE: 1:32 • MATERIALS: IM, WS • ITEM NO.SUPER WING SERIES NO.14

It's hard to know where to start when trying to write a short and snappy review of a model like Zoukei Mura's new 1:32 Ki-45 'Toryu', because there is so much of it. As an indication of its complexity, the kit's (excellent) instruction booklet runs to no fewer than sixty pages including covers, which only hints at the size of the project ahead. There is barely a square centimetre of the model – inside and out – that is untouched by detail parts and each one is moulded with exquisite raised and recessed textures, patterns, rivets and cables: there is no photo-etch in the kit, the manufacturer has done it all in plastic. The kit box is deep and it needs to be, to accommodate the multiple extra sprues of clear fuselage halves, wings, nacelles and tail, any of which can be utilised by the modeller to show off the crammed interior. The twin-engined Ki-45 fighter is a very attractive subject choice, its well-proportioned lines translating well into scale model form and ZM have done a good job with its overall profile. The modeller will need to take a long, hard look at the instructions and build the kit in sub-assemblies, but it should all come together fine if a methodical approach is taken. A stunning production, without doubt! **MN**

+ An extraordinarily detailed model that will take quite some time to complete, but worth the effort

- It will take ownership of your modelling bench for months!



HK Models Avro Lancaster B Mk. III Dambuster

Designed and built by AV Roe & Co, powered by four Rolls-Royce Merlin engines, the Lancaster began operations in March 1942 and with its superior speed, height and range was the most efficient RAF bomber of the Second World War. The Lancaster was chosen to equip 617 Squadron and was modified to carry the Upkeep bouncing bomb designed by Barnes Wallis for Operation Chastise.

PKHK01E11
AVRO LANCASTER B MK III
DAMBUSTER ED932/AJ-G

What's in the box?

- New tooled parts for Upkeep bouncing bomb used in Operation Chastise dam raid in May 1943
- Markings for Lancaster B Mk III Special ED932/AJ-G of 617 Squadron RAF Scampton
- Exclusive UK edition includes new booklet written specially for the new Dambusters kit combining "Rad Shuttles Auto" by Squadron Leader Stuart G Reid BSc RAF (Retired), Pilot Royal Air Force Battle of Britain Memorial Flight, Lancaster PA474 1999-2010 with "Letters from men who flew on the Dams Raid in 1943" written in 1974



1:32 Scale • Length: 664mm • Width: 972mm • Total parts: 854 • RRP: £399.99

HK Models B-17G Flying Fortress Early Production

For a long long time, a new state of the art model kit of the B-17 Flying Fortress in 1/48th scale has been high on modellers' wish lists. Enter Hong Kong Models with a brand new 1/48 B-17G, their first quarter scale kit! The new "Fort" will feature the same ease of assembly, fine surface and interior detail, clever engineering, great markings and fantastic box art as HKM's larger 1/32 scale kits. With a wingspan of approx 66cm (26in) the 1/48 Fortress is a large and impressive model.

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Includes markings for
2 USAF aircraft:

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s/n 42-31353	s/n 42-98008
LG-Q	2S-G
322 nd BS / 91 st BG	834 th BS / 486 th BG,
Bassingbourn UK,	Sudbury UK
Spring 1944	Late Summer 1944

1:48 Scale • Length: 474mm • Width: 658mm • Total parts: 254 • RRP: £115.99

THE CLAMOROUS OWL, THAT NIGHTLY *SHOOTS...*

Nanond Nopparat builds Tamiya's impressive 1:48 Heinkel He219A-7 'Uhu' released in 1997 and gives it special, airbrushed paint treatment

Heinkel's He219 'Uhu' night fighter really needs no introduction. Even though it was produced in relatively small numbers, it stands prominently among other workhorses of the Nachtjagd such as the Bf110 and Ju88. When Tamiya released their 1:48 Uhu in 1997, it earned a place on many modellers must-have-lists, mine included, but strangely enough, for years, this elegant night fighter somehow kept evading my shopping cart. Only recently, when I was looking for a kit to try my hand on painting Luftwaffe WWII night fighter camouflage, I knew exactly what kit I was after. ▶



Please note, the swastika emblems on this model have been obscured to comply with laws in countries where Tamiya Model Magazine is sold



Wartime photo of a captured Heinkel He219.
Photo RAF 1940s, public domain



Wartime photo of a captured Heinkel He219, re-marked with RAF roundels.
Photo RAF 1940s, public domain



The front quarter view shows the radar antennae and the slightly turned front wheel

FULL-BUILD: WORLD WAR TWO AXIS AVIATION

TAMIYA 1:48 HEINKEL HE219A-7 UHU ● KIT NO.61057

❶ TAMIYA 1:48 HEINKEL HE219A-7

For over twenty years of its existence, so much has already been discussed about the kit's strengths and weaknesses. The incorporation of nose weight into the cockpit is still considerably innovative, even by today's standard, and very effective. Considering its age, only few minor modifications are needed. Actually, one can easily produce a very satisfactory representation of this Heinkel night fighter by just building it out of the box.

Perhaps the only areas that require some work are the landing gear bays, which Tamiya designed with some large gaps to the side and all

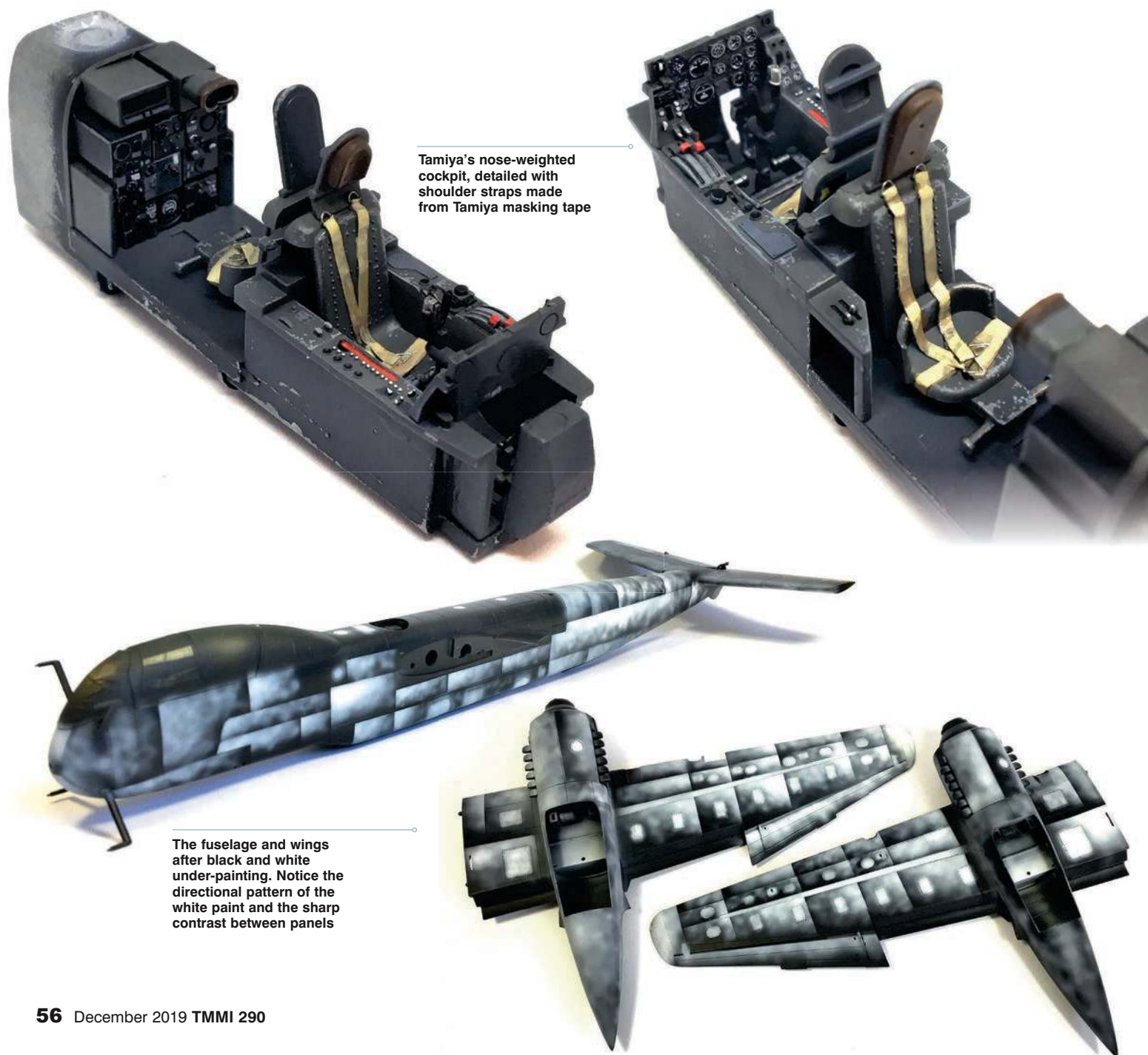
the way to the rear. A proper solution would require a dedicated aftermarket detail set or a careful scratch-building job. Considering my purpose of getting it to the painting stage as quickly as possible, plus the area is quite difficult to see, I went for a quick solution of walling-up the side and the rear with plastic sheet, plus some ribbing on the wall for better appearance. The only other modification was the wingtip navigation lights which I fabricated from clear plastic sprue. In addition, the nose wheel was also positioned with a slight turn to the left for an enhanced appearance.

One of the distinctive

features of WWII Luftwaffe night fighter was certainly the awkward-looking antennas. Most He219s, except some early examples, were equipped with FuG 220 Lichtenstein SN-2 and its four associated antennae carried prominently on the nose and, on some examples, another one on the tail for rear warning of any unwelcome guest. For this prominent feature, I decided to use a set of turned brass German radar FuG 220 Lichtenstein SN-2 from Master Models. Although Tamiya did a very good job on their plastic antennae, using one of this brass antenna set is an easy way to bring your Uhu to another level.

PAINTING

I chose to finish my Uhu in the markings of He219A-7, Werk Nr.350089, D5+CL of 3./NJG3. This aircraft featured a pattern of tight upper fuselage camouflage, while the rest was in plain light grey. This was a perfect canvas for my experiment with 'under-painting'. The paint I used throughout this work was AK-interactive Real Color lacquer-based paint, 'Aircraft' series. I started it off by priming everything in solid black paint. Then came the first fun part. I sprayed each panel with white colour. The trick here is that the white paint is painted in gradient, leaving one corner darker



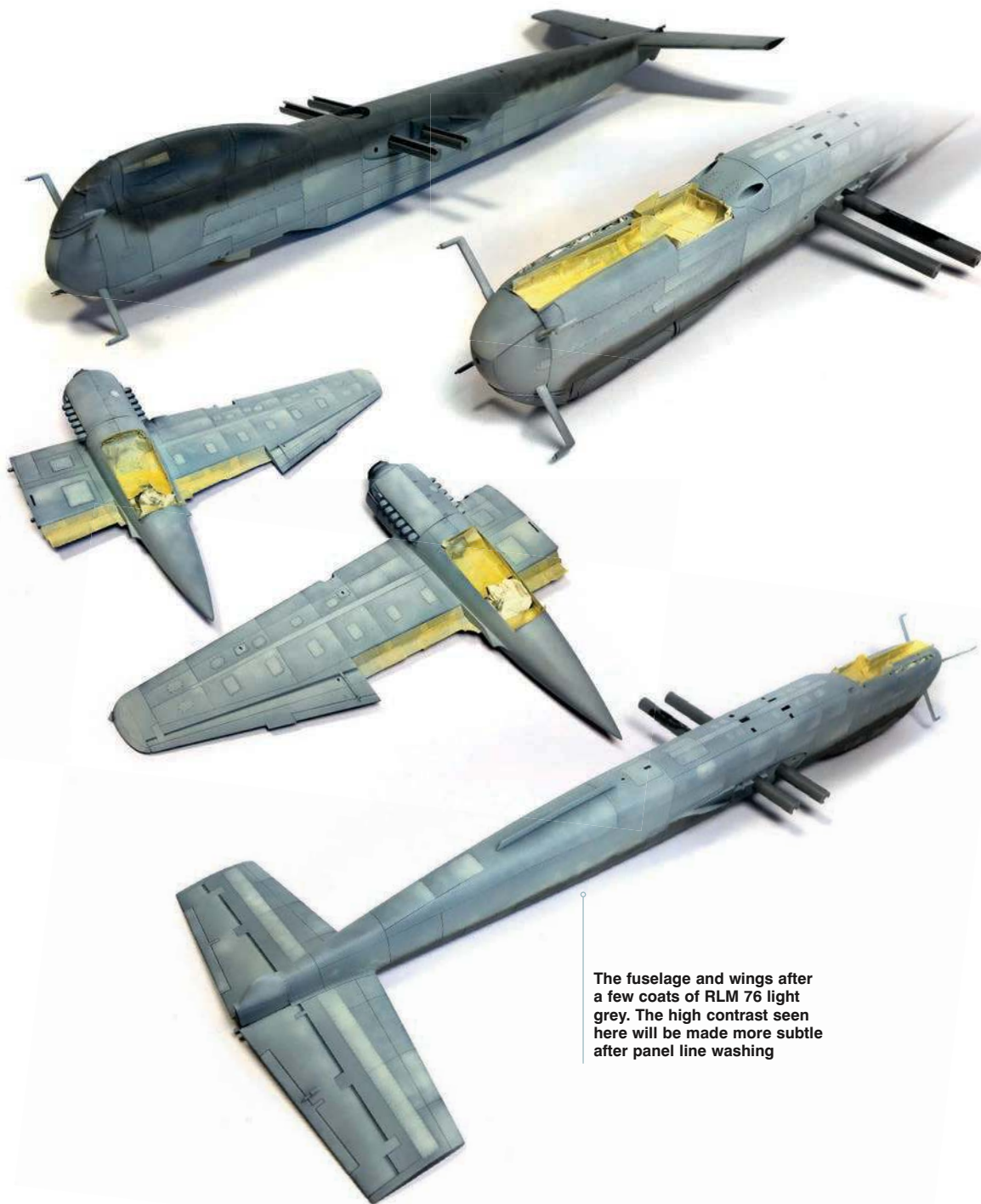
Tamiya's nose-weighted cockpit, detailed with shoulder straps made from Tamiya masking tape

The fuselage and wings after black and white under-painting. Notice the directional pattern of the white paint and the sharp contrast between panels

than the rest. The intention is that this will create light and shadow effect of an imaginary light source.

Masking tape was used to ensure that the demarcation lines between panels were sharp enough to represent the different metal sheets covering the aircraft. As this He219 would have a camouflaged upper side, the under-painting was mainly done to the lower wing surfaces and fuselage sides. Once this was done, the entire model was painted in RLM76 Lichtblau, mixed with flat white to lighten it a bit. The paint was gradually built up layer by layer. Here is where I think AK Real Color really shines: it has less opacity than some other lacquer paints, like Mr. Hobby/GSI Creos. So, even after a few layers, the effect of under-painting could still show through. Some selected panels were then painted with an even lighter mixture of RLM76 and white. Happy with the result, I proceeded to paint the entire upper fuselage with RLM75 Grauviolett, again lightened with a small amount of white paint.

Now it was time for the next fun part, the Wellenmuster pattern! Although I tried to follow the restored example of He219 at National Air and Space Museum, I must admit that my skill with a VEGA2000, 0.3mm nozzle airbrush was really pushed to its limit trying to do the pattern free-handed. After more than a few evenings sitting at the bench, I had arrived at a finish I was satisfied with. ►



The fuselage and wings after a few coats of RLM 76 light grey. The high contrast seen here will be made more subtle after panel line washing

WWW.HAULER.CZ

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DECAL AND MARKINGS

Thanks to information available on the internet, both in form of discussion forums and photographic evidence, it was pointed out that Tamiya got the Werk Nr. wrong for 350088 instead of the correct 350089.

However, it was an easy job to modify the number '8' of the last digit to '9'.

The swastika marking on the vertical stabilizers should also be the all black variant and a bit larger than that supplied in the box. Since Tamiya decals are known to have rather thick carrier film, I opted to finish all the Balkenkreuze national insignias by masking and painting them with black paint. However, the fuselage codes were kit's decals that I tried to trim off as much carrier film as possible.

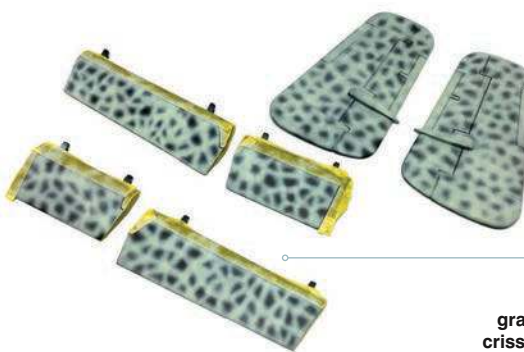
FINISHING AND WEATHERING

I started final step by enhancing the panel lines using a mixture of brown and black Abteilung 502 oil paints. The panel line wash



will reduce the high contrast appearance produced by under-painting technique quite a lot. The result was very subtle in my case. The brown and black oil paints, of various combinations, were used to stimulate oil streaks around the engines and control surfaces. Finally, the heavy exhaust stains were applied to the undersides, as well as the tail, by airbrushing a light mix of black and brown paints.

Well, so ended a quick and fun build. It's yet another proof that Tamiya Heinkel He219 Uhu still has a lot of life in it! ●

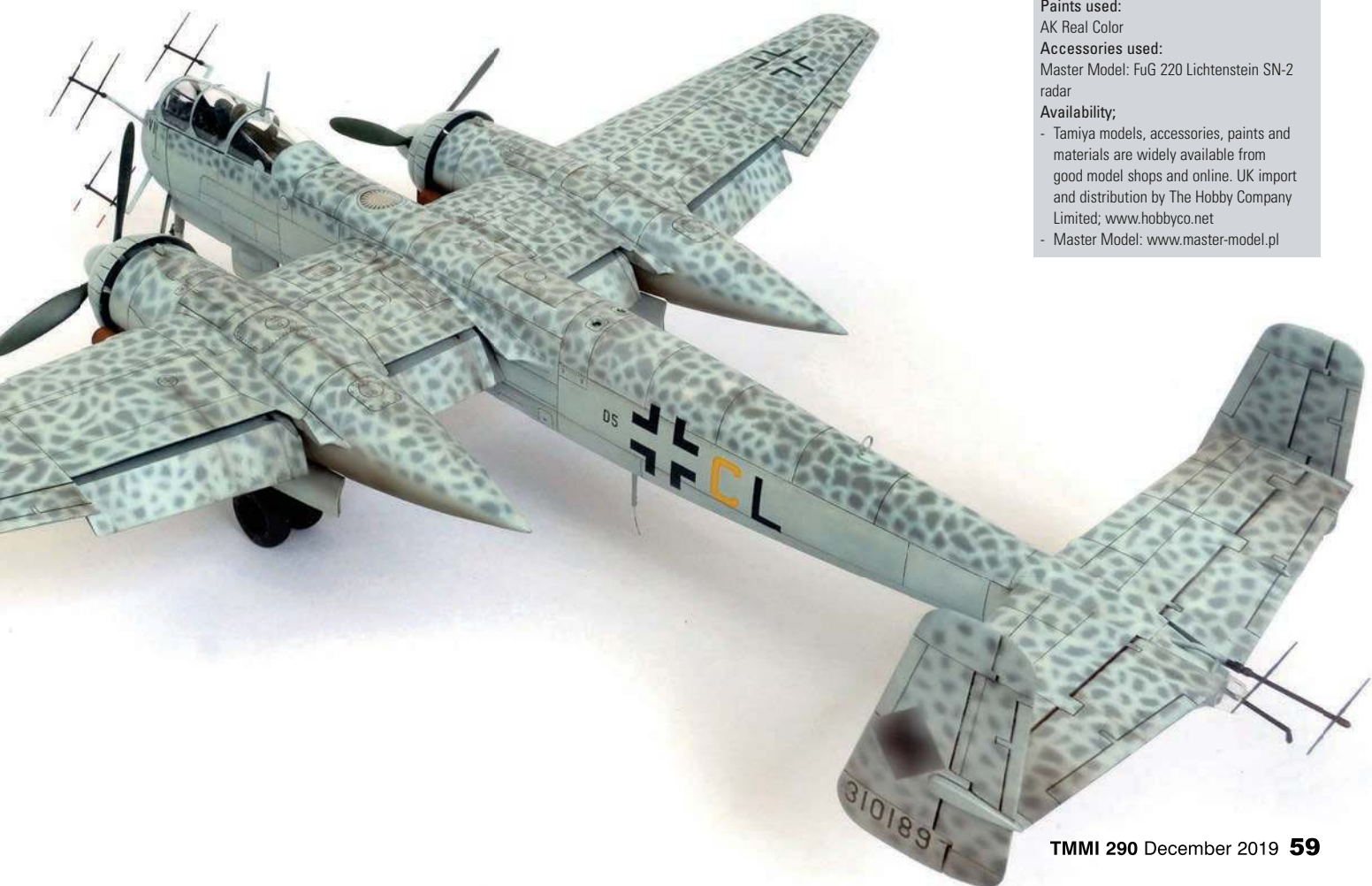


The wave pattern (Wellenmuster) was gradually built up from crisscrossing of random curves. The method is more forgiving than it looks: any small mistake can be fixed easily with more lines!





Here, the effect of the under-painting can be seen quite clearly. The gun cartridge ejection ports were drilled open for a better appearance, including the ports for the two central guns that were not installed



TECHSPEC...

TAMIYA 1:48 HEINKEL HE219A-7 UHU
KIT NO.61057

Materials;
Injection-moulded polystyrene, polycaps, synthetic rubber tyres, waterslide decals

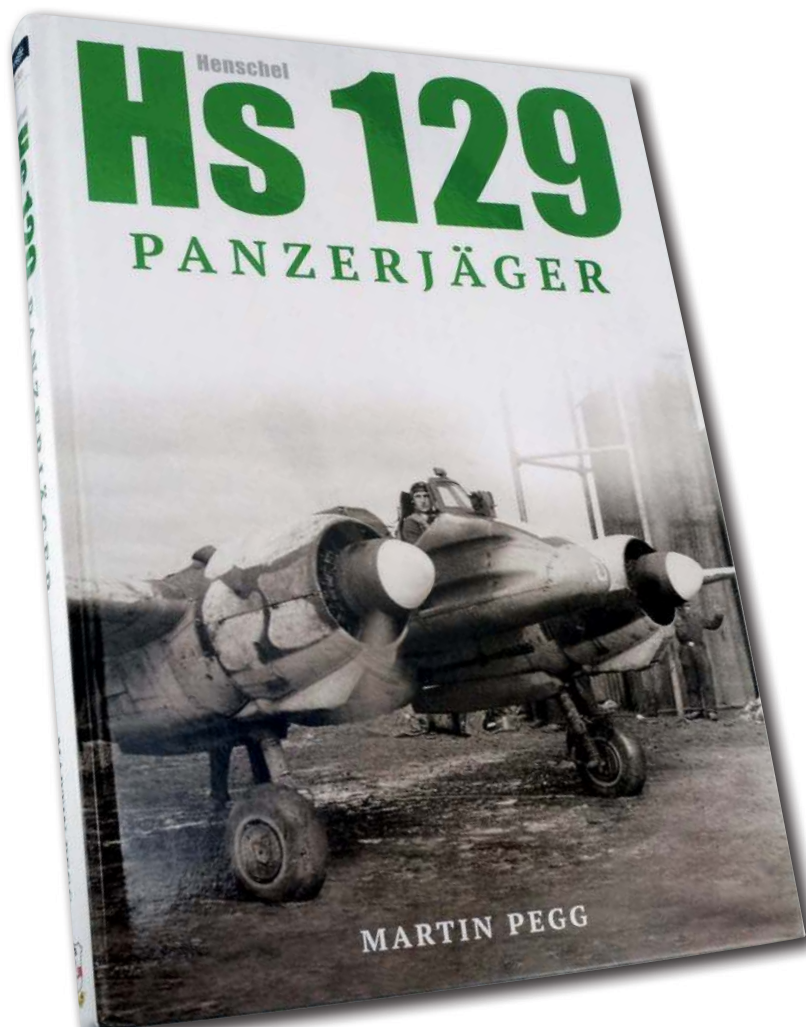
Paints used:
AK Real Color

Accessories used:
Master Model: FuG 220 Lichtenstein SN-2 radar

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
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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?



HENSCHEL HS129 PANZERJÄGER

MARTIN PEGG, CHANDOS PUBLICATIONS

ISBN: 978-1-9993-1650-1

www.chandospublications.co.uk

With the imminent release in 1:32 of the Henschel Hs129 by Japanese manufacturer Zoukei Mura, the publication of this magnificent tome could not have been better timed. Within its 300+ pages (including hard-covers) we are treated to what surely must be the most comprehensive production yet published on this fascinating Second World War Luftwaffe aircraft. We begin with a look at the 'Schlachtflieger' in the First World War and quickly move on to the development of the '129 via the Henschel Hs123 and Junkers Ju-87 Stuka. It must be noted that this is far more than a 'photo-reference' book: here we have a solid, in-depth narrative on the type, supported by hundreds of superb wartime photos, mostly in black and white plus a sprinkle of original (not colourised) colour photos. Complimenting the text and photos are full-page colour profile illustrations by renowned professional military history book illustrator Janusz Swiatlon and these really bring the subject to life. Naturally, we are looking at the book from a modeller's point of view and here it works very well. Granted, there are no 'walk-around' references (no complete Hs129s exist) but the combination of crisp, detailed photographs, captivating colour illustrations and an authoritative text offer the reader an unmatched volume on this charismatic-looking ground attack aircraft. Very highly recommended. *MN*





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How to Build...

TAMIYA'S 1:48 SUPERMARINE SPITFIRE MK.I

When Tamiya released their 1:32 scale Spitfire Mk.IXc in 2009, they set a new standard for plastic model kits. As one of the most popular subjects in the history of scale modelling, we should not be surprised to find that Tamiya has now released an all-new Spitfire kit in 1:48 scale.

Tamiya's brand new 1:48 scale Spitfire Mk.I delivers innovative design, outstanding detail, an accurate outline and crisp, subtle surface textures.

This model has nothing at all in common with their 1993 kit. Between these covers, we provide an exhaustive step-by-step illustrated guide to building Tamiya's 1:48 scale Spitfire Mk.I straight from the box plus tips on painting and weathering. Plenty of inspiration is offered with two different configurations plus a conversion to the Photo Reconnaissance version with models by Brett Green and Marcus Nicholls.

Also included are a walkaround of a surviving Spitfire Mk.I, a summary of other Spitfire Mk.I model kits available in 1:48 scale, a list of available accessories and decals plus a catalogue of helpful references.

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Fiesta, blow-by-blow

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

MATILDA FOR THE MOTHERLAND

Tamiya's 1:35 new-tool
Matilda II in Soviet service



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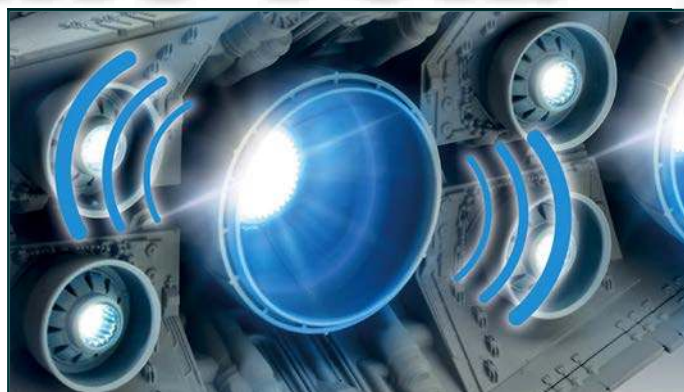


THIS IS THE KIT YOU ARE LOOKING FOR!

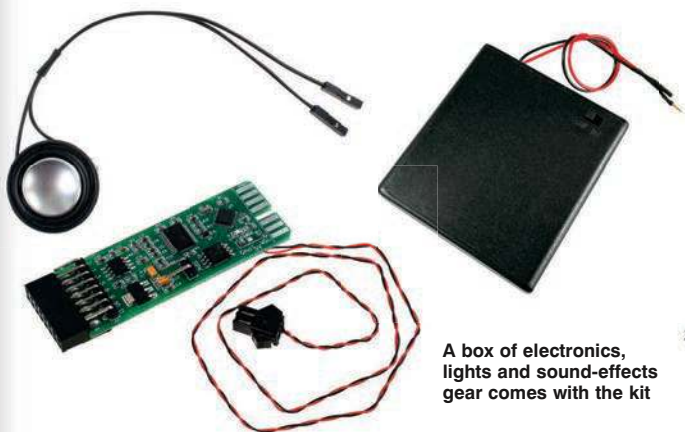
I think I took a look at Revell's extraordinary 1:2700 Imperial Star Destroyer on this page a while ago. The kit was originally created by Russian maker Zvezda and is a magnificent model in its own right. Now, Revell have added the model to their 'Technik' range which means it comes with LED lights and sounds. How cool is that? The lights illuminate not just the main and auxiliary engines, but also sections of the upper deck's superstructure and command 'bridge' and along the outermost edges of the hull. Modern LED strips are used for the latter areas so they will not overheat like the 'grain of wheat' lightbulbs of old and they will also last years. An amplifier and small loudspeaker are included and this will blast out appropriate Star Wars sounds, making the whole thing come alive: all the kit is missing is Princess Leia's Blockade Runner ship in 1:2700, to be seen drawn into the ventral launch bay. It's a fantastic use of light and sound by Revell! ●

Availability;

Revell models are widely available from good model shops and online. www.revell.de/en



Main and secondary engines are lit with LEDs



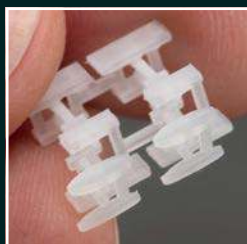
A box of electronics, lights and sound-effects gear comes with the kit



EDITOR'S CHOICE

Spinney World 3D model car detail parts

These newly released 3D-printed model parts from Salford-based (Manchester UK) 'Spinney World' include vintage door handles and window-winders for cars in the 1:24/25 range, plus Monza-style fuel caps, JDM/drift-style interior parts and much more. They are formed in high-grade translucent resin which needs just a quick trim and clean-up to prep for paint. Very neat indeed! spinneyworld.com



KIT PREVIEW

TAMIYA 1:48 LOCKHEED P-38 F/G LIGHTNING ● KIT NO. 61120



LIGHTNING CAN STRIKE TWICE!

Tamiya have created an 100%, all new 1:48 kit of the Lockheed P-38 F/G Lightning with wonderful precision.

The complex Lightning P-38 was one of the most crucial fighters of World War II for the Allied cause. The pilot's cockpit and weaponry sat in a central nacelle flanked by twin booms which taper back to the tailplane. Each boom houses a turbocharged V12 engine and the distinctive overall image led to it being known by some as the Fork-Tailed Devil or Gabelschwanz-Teufel.

In 1937 the United States Army Air Corps requested a high-altitude twin-engined single seat fighter to intercept and attack hostile aircraft. The ongoing success of the Lockheed design meant that the P-38 had a notable impact as a superior fighter-bomber in the Pacific, Germany and the Mediterranean. The carrying capacity, firepower, handling and excellent range proved to be an outstanding success.

Now, thanks to Tamiya's new tooling, this legendary Lockheed designed P-38F/G Lightning from World War II is brought back to life in the 1:48 Aircraft Series. ●



Features:

- The P-38 form has been accurately replicated after extensive study sessions of actual Lightnings
- The model has the ability to be assembled with an open or closed canopy, with parts for the sideways opening P-38F and vertical opening P-38G designs.
- A curved canopy front has also been recreated and included.
- Weights are provided to ensure the correct stance of the model as a parked P-38.
- The model enables the construction of either the P-38F or P-38G.
- Two 150 and 300 gallon Drop tanks are included for P-38F and the more powerful P-38G setup so that it was capable of longer missions.
- The P-38G's carried both a 150 and 300 Gallon tank during Operation Vengeance.
- Highly detailed cockpit with decals for the instrument panel and wheel control column, plus raised details of the radio and throttle box on the cockpit walls.
- Two markings options are offered;
 - P-38F "White 33" 39th Fighter Squadron, 35th Fighter Group, 5th Air Force
 - P-38G "White 147" 339th Fighter Squadron, 347th Fighter Group, 13th Air Force
- Special metal effect decals are included to recreate the interior and engine cowlings mirrors for the pilot to check landing gear.
- A pilot figure comes with the kit.
- Canopy masking sheet is provided for painting.
- A full colour painting guide is also included.



"It looks fantastic, it really does. The surface texture is everything that we have come to expect from Tamiya, restrained, crisp and accurate..."

(Brett Green)

Tamiya kits are widely available from good model shops and online.
UK import and distribution by The Hobby Company Limited; www.hobbyco.net



1/48
SCALE

LOCKHEED® P-38® F/G LIGHTNING®

An Ace in the Hole

The P-38 Lightning was developed by Lockheed in response to a 1937 proposal from the United States Army Air Corps; this twin engine aircraft would prove a massively successful design, enjoying a production run of around 10,000 units and spawning numerous U.S. aces in WWII. Its twin V12 engines were housed one each in twin booms that stretched back to the tailplane, flanking a central nacelle containing the cockpit and weaponry. A combination of superb range, firepower and carrying capacity ensured that the P-38 was a superior fighter-bomber, and it made a considerable impact after joining the Pacific War in late 1942 including the shooting down of Japanese Admiral Isoroku Yamamoto in 1943, a significant morale boost for the Allied cause. Now this legendary subject joins the Tamiya 1/48 Aircraft Series. Our designers spent plenty of time looking over real P-38s to ensure that not only is the model a highly satisfying build, it enjoys superb accuracy. Take this chance to construct it for yourself, and appreciate the wonder of the P-38 design.

★This is an accurate rendering based on extensive research of actual aircraft. ★Slim engine cowlings, wing, and curved windshield are recreated in style. ★Features sturdy and precise landing gear assembly. ★Choose whether to assemble as a P-38F or P-38G aircraft. ★Weights are included to give the model correct balance. ★Comes with a pilot figure.



The detailed cockpit features control wheel, radio and more. Masking stickers are included for the canopy paint job.

Comes with two marking options: one P-38F and one P-38G.



Detailed depictions of turbochargers



Sturdy and accurate landing gear parts design



Metal effect decal

Special decals recreate cowl interior mirrors.



Choose open or closed canopy, with parts for sideways-opening P-38F and rearward-opening P-38G designs.



P-38Gs which took part in Operation Vengeance carried one each of 150- and 300-gallon tanks.

Two sizes of drop tank are included.

150-gallon drop tank
300-gallon drop tank



Information leaflet and color painting guide included!

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1/48 Aircraft Series
Lockheed® P-38® F/G Lightning® (Item 61120)