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**Model
MAGAZINE**
INTERNATIONAL

**ISSUE
315**

January 2022
£4.95

911 HEAVEN

Revell's stunning, all-new
1:24 Porsche 911 Carrera
in full detail



Model MAGAZINE

INTERNATIONAL



CHIEF OF THE CLAIN

*Modelling Tamiya's iconic
1:35 Chieftain tank*

INSIDE...

Bandai 1:12 C-3PO with LED eyes, Tamiya Pz.IV Ausf.G diorama, Eduard's 1:48
Fw190A-6/R11 night-fighter, plus new kits, books and modelling accessories...

DOOLITTLE
MEDIA



1/48
SCALE



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Cleared for Take-Off, Gypsy 200!

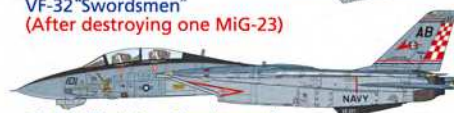
1/48 Aircraft Series **Grumman® F-14A Tomcat™ (Late Model) Carrier Launch Set** (Item 61122)

Tamiya welcomes a new variant of our 1/48 F-14 Tomcat model, which is famous for its superior assembly and accurate depiction. The powerful navy aircraft form is realistically captured in style with its nose lowered and variable sweep wing forward, ready for launch from a carrier. This model has new parts recreating distinctive features of the late 1980s' F-14A plus a wing with deployed leading edge slats and flaps, and compressed nose landing gear. Choose from marking options to depict the call sign "Gypsy 207" which destroyed a Libyan MiG aircraft in the 1989 incident in the Gulf of Sidra, its CAG aircraft "Gypsy 200," and more. Also, a paper flight deck sheet and catapult crew figure are included. Enjoy this aircraft rendered dynamically in detailed Tamiya 1/48!

★ Comes with 4 marking options



VF-32 "Swordsmen"
(After destroying one MiG-23)



VF-211 "Fighting Checkmates"
Commanding Officer's Aircraft



VF-154 "Black Knights"
Commanding Officer's Aircraft



The Shooter is captured giving the signal for the F-14A to launch.



The shortened nose landing gear before launch is accurately depicted.



Decals recreate concentric wear marks left by wing.

GRUMMAN F-14A TOMCAT™ (LATE MODEL) CARRIER LAUNCH SET

F-14A Tomcat™ is a trademark of Northrop Grumman Systems Corporation and is used under license by Tamiya, Incorporated.

★ Length: 398mm, width: 408mm



VF-32
"Swordsmen"
CAG Bird

Realistically depicted camera-pod

2 types of catapult spreader (shuttle)

Late production model AN/ALQ-126 ECM antenna

Separate parts recreate leading edge slats and flaps.

Paper deck sheet: 460 x 276mm

A paper deck sheet realistically renders a carrier flight deck.

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

1/48 Scale (Item 12693)
**Grumman® F-14 Tomcat™
Detail Up Parts Set**

Includes two metal alpha probes, two photo-etched seatbelt components and mirrors for the F-14A and F-14D aircraft. Contains parts to kit out one each of both F-14A and F-14D aircraft.



COVER STORY

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Modelling Tamiya's 1:35 Chieftain tank in the Verlinden style



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Revell's stunning, all-new 1:24 Porsche 911 Carrera, step-by-step



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Tamiya's (mostly) new 1:35 Panzer IV Ausf. G in a desert diorama

Model MAGAZINE INTERNATIONAL

Issue 315 January 2022

EDITOR Marcus Nicholls
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IN BRIEF...



TAMIYA

- 1:10 RC 1990 Land Rover Defender 90 (CC-02)
- 1:10 RC Toyota Supra Racing (A80) (TT-02)
- 1:10 RC Super Avante (Painted Body) (TD4)
- 1:12 Nissan Fairlady 240ZG Street-Custom
- 1:24 Nissan Fairlady 280Z with T-Bar Roof
- 1:24 Subaru BRZ (ZD8)
- 1:32 Mini 4WD Oval Home Circuit (Two-Level Lane Change) plus Trairong & Copperfang

hobbyco.net



EDUARD

- 1:72 Mig-21MF Weekend Edition
- 1:48 P-51D-20 Mustang Weekend Edition
- 1:48 Bf109E-4 ProfiPACK
- 1:48 Ténér Limited Edition Dual Combo
- 1:48 Tempest Mk.V Series 2 ProfiPACK
- 1:48 Tempest Mk.II late version ProfiPACK

creativemodels.co.uk

HAZMAT

- 1:48 OV-10A Bronco

TBC

MENG

- 1:35 Panther Ausf.G w/air-defence armour

tigerhobbies.co.uk

MASTERBOX

- 1:24 Post-Apocalyptic Series Splinter
- 1:24 Post-Apocalyptic Series Nadezhda

creativemodels.co.uk



NUNU

- 1:24 Porsche 911 SC RS '84 Oman Rally winner
- 1:24 Honda Civic EF9 Jaccs

hiroboy.com

MINIART

- 1:35 Tempo 3-wheel truck

creativemodels.co.uk



REVELL

- 1:72 Sturmgeschütz IV 'World of Tanks'
- 1:72 Tiger II Ausf. B 'King Tiger' 'World of Tanks'
- 1:72 Cromwell Mk. IV 'World of Tanks'
- 1:35 T-26 'World of Tanks' 11
- 1:35 Leichttraktor Rheinmetall 1930 'World of Tanks'
- 1:72 Panther Ausf.D (easy-click) 'World of Tanks'
- 1:72 T-34 'World of Tanks'
- 1:32 MS Sports Plane Builders Choice 2021
- 1:144 MS Airbus A320neo 'British Airways'
- 1:50 Model Set Viking Ship
- 1:24 MS VW T2 Camper (easy-click)
- 1:24 MS Porsche Junior 108 (easy-click) FS Edition

revell.de/en



NEW FROM TAMIYA

1:35 Soviet KV-2 new-tool

Tamiya has announced an all-new kit of the mighty KV-2 heavy assault tank in 1:35! The model uses parts from the recently released, new-tool KV-1 kit, but

with new, non-ribbed roadwheels as seen on the KV-2 and early KV-1 models plus return rollers with rubber rims. The kit also features large-diameter idler wheels which featured on the early and middle production models: the KV-1 model has small-diameter late production type. The massive turret with 152mm howitzer is box-type assembly and its surface such as armour plate and weld seams are authentically reproduced. The main gun barrel has a realistic rifling near the muzzle. It comes with two markings-options plus one crew torso and one commander full figure. Full build feature coming soon to TMMI! www.hobbyco.net



NEW FROM CLEAR PROP

1:72 OV-1A/JOV-1A Mohawk

This fascinating observation/attack aircraft from the Vietnam War era is on its way in 1:72, thanks to Clear Prop Models.

www.clearpropmodels.com



COMING SOON FROM EDUARD

New Tool 1:48 Zero

An all-new kit of the A6M2 Zero Type 21 in 1:48 has been released by Eduard - here are the latest pictures. www.eduard.com www.creativemodels.co.uk



COMING SOON FROM TAMIYA

1:16 RC Centurion Mk.III Full Option Kit

Tamiya is to welcome the Centurion Mk.III to the 1:16 RC tank series!



The Control Unit uses four channels to control forward/back movement, sharp and pivot turning at any speed. Gun elevation, recoil and turret rotation can also be controlled from the transmitter. Engine sounds are synchronized with model's speed, while main gun and machine gun firing are realistically accompanied by lights and sound via the DMD Multi Function Unit. Comes with X2 Type 380 motors, X1 type 130 motor plus X2 TSU-O3 servos. Four channel RC system, batteries, charger, paints and glues available separately. www.hobbyco.net



NEW FROM REVELL

1:35 Panther Ausf.D 'Gift Set'

This package comes with Revell's excellent Contacta cement and paints, making this a perfect Christmas present! revell.de/en



COMING SOON FROM EDUARD Upgrades for Tamiya 1:35 Kettenkrad

Tamiya's new-tool Kettenkrad gets sharpened up with a new photo-etched brass sheet from Eduard.
www.eduard.com
www.creativemodels.co.uk



NEW FROM EDUARD Upgrades for Tamiya's new 1:48 F-4B Phantom II

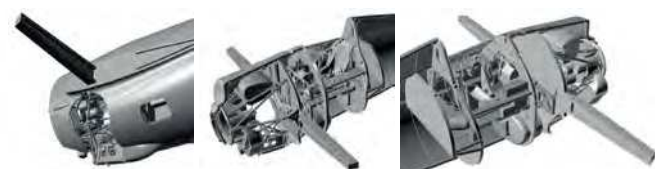
Tamiya's recently released 1:48 F-4B Phantom II kit is to be treated to the full photo-etched brass, resin and 3D print upgrade treatment, courtesy of Eduard! More details soon...

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



COMING SOON FROM EDUARD All-new 1:48 Grumman Wildcat family

An all-new Grumman F-4F Wildcat is coming in 2022, with masses of detail. More details soon.
www.eduard.com www.creativemodels.co.uk



NEW FROM GASPATCH 1:48 tractor for Me163

To accompany their new 1:48 Me163 Komet kit, Gaspach have a 'Scheuch-Schlepper' on the way, in full 3D print!
www.gaspachmodels.com



NEW FROM MODELSVIT 1:48 Mirage IV A-P

This incredible-looking version of the Mirage jet-fighter is on the way from Modelsvit soon. www.modelsvit-eshop.com



COMING SOON FROM IBG 1:72 Fw190D-9 D-15

A new series of Fw190s 'Doras' is coming soon from IBG.
www.ibgmodels.com



COMING SOON FROM REVELL 1:72 US Navy Swift Boat Mk.1

Revell's all-new USN Swift Boat will soon be issued as a 'Model Set' with paints and glue. revell.de/en

NEW FROM ZVEZDA New kits on the way!

1:35 UAZ 3909 Russian military van, 1:72 M4A2 (75mm) Sherman US medium tank, 1:72 US Marines WWII.
www.hobbyco.net



COMING SOON FROM EDUARD

- LööK 1:48 Mi-24D cockpit
- Brassin' 1:48 Supermarine Spitfire Mk.V cockpit
- Brassin' 1:48 Messerschmitt Bf-109G-10 propeller
- Brassin' 1:48 Falanga 9M17P missiles
- Brassin' 1:48 Sopwith Camel Bentley engine
- Brassin' 1:48 Messerschmitt Me-163B wheels
- Brassin' 1:72 Panavia Tornado GR.1 cockpit

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



FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN IV AUSF. G SD.KFZ. 161/1 EARLY PRODUCTION ● KIT NO.35378



TOMORROW IT MIGHT BE ME

Takahiro Sumitomo builds Tamiya's mostly new 1:35 Panzer IV Ausf.G and creates an evocative desert diorama for it

Tamiya's recently released 1:35 Panzer IV Ausf.G comes with a wonderful set of figures that made me want to make a simple diorama, so I bought the kit immediately. Assembly was easy because this is a modern Tamiya model. In particular, the link-and-length tracks are wonderful, and I was surprised that it was so easy to reproduce their natural 'sag' just by assembling them according to the

instruction manual. I wish everything was this way!

When I assembled the figures, I felt the quality was one generation higher than previous releases, especially for soldiers sitting in the turret: the fit of parts is amazing. It's usually difficult to fit a crew into a tank's turret hatches, but here they fit very nicely. The centre of gravity and weight shift are very natural-looking and wonderfully well detailed.. 



FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN IV AUSF. G SD.KFZ. 161/1 EARLY PRODUCTION ● KIT NO.35378

MAKING THE GROUNDWORK

Wood clay was used for the desert floor and I built it up at a slight incline. You can make the scene come to life by making it at an angle to the ground rather than a horizontal surface. I wanted to show the contrast with the running Panzer IV, so I made a crashed vehicle plus the grave of a soldier. When I make the groundwork, I do not do it all at once, but divide it into two steps, 'shape' and 'texture'. This is more suitable for me because I can calm down and do each section one at a time. When the basic shape was completed by sculpting the wood clay, I added the texture. I applied Tamiya's Texture Paint (Sand) with my finger and sprinkled pebbles from above. Large stones were attached with a woodworking glue. Tamiya's Texture Paint is easy to use but realistic, so I've been using it all regularly for quite some time.

After drying, the base's undercoat colour (Mr Hobby 'Mahogany') was sprayed all over, followed by Tamiya XF-57 Buff again via airbrush. For the pebbles, Vallejo's light grey and light sand were used, painting each one individually using a brush and sponge. You can express the natural ground by painting stones as realistically as possible.

TANK PAINTING

I used Tamiya LP-75 Buff as the base sand colour. I liked this colour, but I only had Tamiya Acrylics to hand. I only use lacquers for basic painting now, and I love using Tamiya's



The completed kit, ready for paint



The figures are being assembled, using the turret hatches to confirm they fit perfectly



The figure painting is almost complete in this view: their poses looking very natural



And once fitted into the turret hatches, the model really starts to come alive!



The diorama's basic proportions are being laid out here: note the classic three-level layout

Mini Review...



PLUS MODEL/AERO LINE 1:48 ME262 SCHWALBE PILOT (AL4096)
www.creativemodels.co.uk

Nothing brings a model to life better than a figure standing alongside it and this little beauty from Plus Model in their Aero Line range is superb. Cast in one piece from grey resin with a toolbox to place one foot on, the figure is outfitted in the correct gear for the Me262 and will be quite straightforward to paint up and place next to your Tamiya 1:48 kit.





Tamiya's delightful 'Tilly' kit was released back in 2011 and is a classic. For the diorama, it was remodelled as a crashed and shot-up example



After painting and extensive weathering work, the Tilly (from 'utility') looks like it has sat in the desert for several months



Size comparison: Pz.IV Ausf.G meets a tiny Tilly



If tanks can be handsome, then the long-barrelled Pz.IV is quite a looker

Note the extreme weathering across the Panzer's hull and turret. The desert was a harsh environment for all hardware



new Lacquer Paint Buff since it was released. This time, I mainly used acrylics instead of enamels for the drybrush process. The paint doesn't smear too much and this is likely to become the standard for me.

The crashed vehicle is Tamiya's 1:35 10HP 'Tilly'. I had already built the kit, but I removed the hood and added the battery cord etc. The rear tilt frame is made of brass wire and the torn canvas was reproduced by stretching epoxy putty as thinly as possible. With all the elements added, the work was complete. Tamiya's new Pz.IV Ausf.G is a superb model, the figures really bringing it to life. ●



The signpost sits at the diorama's highest point and adds a visual marker that tells us where the scene is taking place



The various materials used by the author to create the desert floor are unified under a layer of suitable dusty shades of paint

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN IV AUSF. G SD.KFZ. 161/1 EARLY PRODUCTION ● KIT NO.35378



Tamiya's figure designers really excelled with this project, the crew members bring the tank to life



The finishing touch for the burnt-out British truck is a sheet of torn canvas tilt, hanging sadly from the rear hoops



The far side of the tank. Note the realistic folds in the crewman's shirt

TECHSPEC...

TAMIYA 1:35 PANZERKAMPFWAGEN
IV AUSF. G SD.KFZ. 161/1 EARLY
PRODUCTION KIT NO.35378

Materials:

Injection-moulded polystyrene, polycaps,
waterslide decals

Paints used:

- Tamiya: XF-57 Buff, LP-75 Buff, Texture
Paint (Sand),
- Mr Hobby: Mahogany

Accessories used:

Tamiya: British Light Utility Car 10HP (35308)

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



eduard

LIMITED EDITION
DUAL COMBO



TORA TORA TORA!

A6M2 Zero Type 21 over Pearl Harbor

1/48



Lt. Cdr. Shigeru Itaya, Akagi Fighter Squadron,
first attack wave



c/n probably 2236, PO2c Akira Yamamoto, Kaga Fighter
Squadron, first attack wave



Lt. Masaji Suganami, Sōryū Fighter Squadron,
first attack wave



PO1c Kazuo Muranaka, Hiryū Fighter Squadron,
first attack wave



Lt. Tadashi Kaneko, Shōkaku Fighter Squadron,
first attack wave



Lt. Masao Satō, Zuikaku Fighter Squadron,
first attack wave



PO1c Tetsuzō Iwamoto, Zuikaku Fighter Squadron,
patrol during the first attack wave



Lt. Saburō Shindō, Akagi Fighter Squadron,
second attack wave



PO1c Yoshikazu Nagahama, Kaga Fighter Squadron,
second attack wave



c/n 3277, Lt. Fusata Iida, Sōryū Fighter Squadron,
second attack wave



c/n 2266, PO1c Shigenori Nishikaichi, Hiryū Fighter
Squadron, second attack wave



PO1c Yukuo Hanzawa, Shōkaku Fighter Squadron,
patrol during the second attack wave



DECEMBER 2021

11155

WWW.EDUARD.COM

When it comes to Porsche, no other model is more iconic than the 911. Sure, over the many decades things have changed: the shape has evolved somewhat but you can still trace its routes back to that '60s body style. But after ten years of its first conception, the 911 was in need of re-fresh... Cue the G-model range and its many guises - think Turbo, 930, 934? Things were on the move for Porsche and definitely for the better. So when the chance came for me to sink my teeth into Revell's latest 1:24 3.2 Coupe release, I felt a sense of excitement to be able to replicate such an icon.

If I'm honest, Revell for

me hasn't always been at the top of my preferred list of model brands. I have my reasons but that's more of a personal choice. That said, this is an absolutely superb new kit from Revell. The dimensions seem to fit, stance looks good and overall detail is very impressive. All I had to decide on colour and where to take this build. I was under 'editorial instruction' however to keep this build more or less box-stock, so that meant only using what I had at my disposal. Given my track record of taking model building that bit further in detail, I was looking forward to an uncomplicated, back-to-basics process and so I was fine with the editor's request. ▶

911 HEAVEN:

A NEW PORSCHE IS BORN, COURTESY OF REVELL!

Robert Riley gets to grips with Revell's new-tool
1:24 Porsche 911 Carrera 3.2 Coupé





Preparing for assembly

❶ A MECHANICAL MARVEL

Delving into the box we find several well moulded parts trees, synthetic rubber tyres, a well stocked decal sheet and a very detailed set of instructions. The pleasing option of either RHD or LHD plus a choice of sports or standard front bumpers is included, so we get that chance to personalise our builds that bit further. I loosely began following the instructed process by trimming away all engine parts plus all other mechanical components including suspension, brakes and chassis. The flat-six engine block as a whole looks superb although you'll need to plan your paint route though as some of the colour directions seem a bit bland. A good spot

of Googling (other search engines are available!), 911 3.2 litre engine reference images will help you on your way in that department, coupled with a good dose of artistic license of course.

My paint method consisted of lots of masking at various stages with colour work using Mr Color and Tamiya's LP ranges, alike all via the airbrush. To finish the engine, Revell supply some nice decal touches such as warning labels, information placards and my favourite, belt demarcation. The exhaust system is a one-piece moulded part and looks really good once fitted. The exhaust outlet did seem a little shallow though, so to remedy the

look I simply drilled the out the tip deeper and wider to improve the finish. Some careful masking and an open mind for colouring is all that's needed to bring the area alive. The rest of the

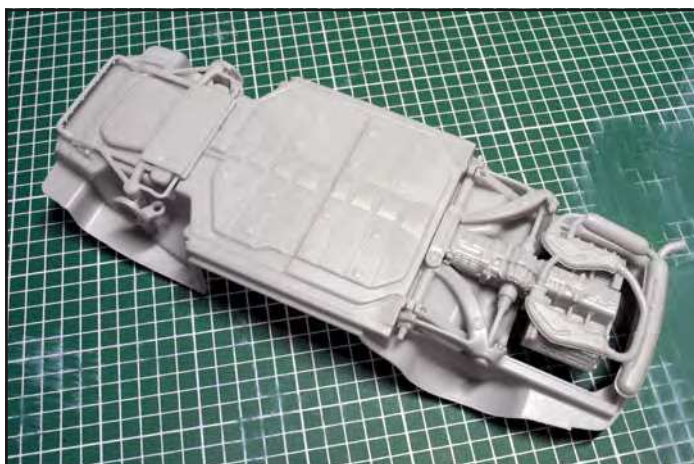
components were painted and finished up with little issue, leaving only the main chassis. As this is a body colour part, I reserved the airbrush work for further on in the process.



Apart from the tyres and clear parts, all components are moulded in the same colour



The body shell is superbly moulded and shows great quality. Some clean up required but nothing drastic



An early dry-fit of chassis and running gear components show great promise in location and detail

Engine and exhaust preparation and paint

INTERNAL DECISIONS

From the outset, I knew exactly what shades I wanted to use: they needed to work with the body colour so a good combination of both was key. I wanted to step away

from the generic shades and do something different. My choices aren't exactly specific to this G-series but it's a route I wanted to take anyway, after all, a build is what we make of it, isn't

it? A two-tone cream and tan leather cabin with beige carpet just screams '80s class and as long as I could pull it off, it should come up a real treat as you peer through the glass.

Revell make the interior work nice and simple, with lots of separate parts helping to break down the painting and detailing processes, leaving us to focus on each



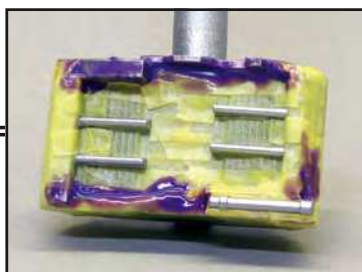
The lower engine detail is crisp and sharp. Even though it's underneath the car it's still great to see Revell has thought of everything



The exhaust outlet moulding was shallow so I took to drilling and widened it out for further realism



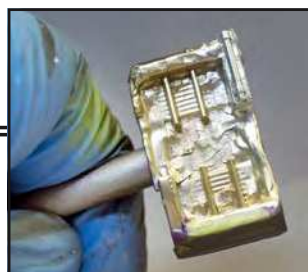
I followed my own steps using references to capture the exhaust colouring, heat staining and weathering, aiming for a used but well cared for approach



After giving the whole area a coat of Mr Color Super Metallic 2 silver, the oil return tubes were masked around and left exposed



More masking required. All exposed areas will be airbrushed in black. The time taken here will be well worth the outcome



I went for a pale gold for the oil return tubes to help separate from all other colours around and to replicate the real deal



Further paint masking to finish up the final detail. Once all masking is taken away the colour shading and tidy up can be begin

area independently. The overall detail level is pretty good in there, everything seems in good scale with the actual build process showing zero issues which is always a positive. To start with, everything was primed in Mr Hobby Finishing Surfer 1500, a superb lacquer-based primer thinned to taste with standard Mr Color lacquer thinner via the airbrush. Once the quick curing primer process was over the surfaces were cleaned up ready to take some colour.

Now, you'll have to forgive me here but I cheated a little on Porsche with some Ferrari leather colours. Zero Paints offer a superb range of leather shades which lead me to my sin. But I felt no shame in what I did as once applied, the Ferrari 'Sabbia' (Cream) and 'Cuoio' (Tan) combination just work so well together. All panels once completed were given a satin, semi-gloss clear-coat to give the leather a healthy sheen.

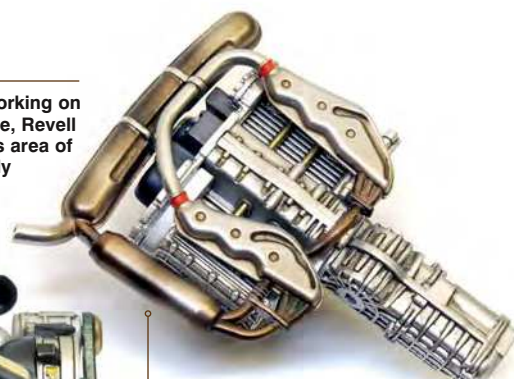
For the carpet process, all internal panels were simply masked over leaving anything exposed to be covered in 'Zero Designs' Bisque Tan flocking powder. I prefer to airbrush a flocking fixer to ensure a level coverage of material. In my case, this was gloss lacquer, as it cures slightly slower and remains sticky for long enough for the flocking powder to hold onto. For the smaller details scattered about the cabin I did adapt some. The handbrake was moulded in the 'off' position, facing down. As the model is in a state of permanent display, I felt the 'on' position would better suit. The moulded shaft was cut away and re-affixed in the up position – handbrake is now applied. Now I know I said id keep the build box stock but I couldn't help add in something: seat belts of course! Nothing drastic but they do help add that realistic touch. ▶



A mechanical banquet of drivetrain, brake system and suspension components complete and ready for chassis fitment

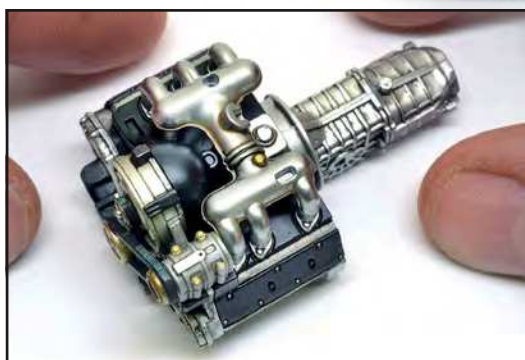


I really enjoyed working on this 3.2-litre engine, Revell have captured this area of the model superbly



The lower side of the engine is also captured wonderfully by Revell. This will look fabulous once fitted in situ

Only the drive shafts left to add but they'll be fitted once the engine block is in place



Various shading and highlighting using a mixture of high shine and dulled colour finishes help to separate each area and give a more complete finish

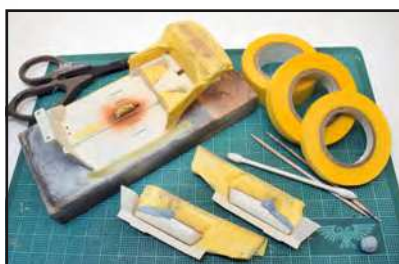


Once fitted there are other smaller items to add to finish up the engine bay. Thankfully this will all be visible due to the ability to open the rear bonnet

Painting and finishing the cabin



Zero Paints offer a superb range of leather colours to work with as well as their Zero Designs flocking powder. These were my interior options



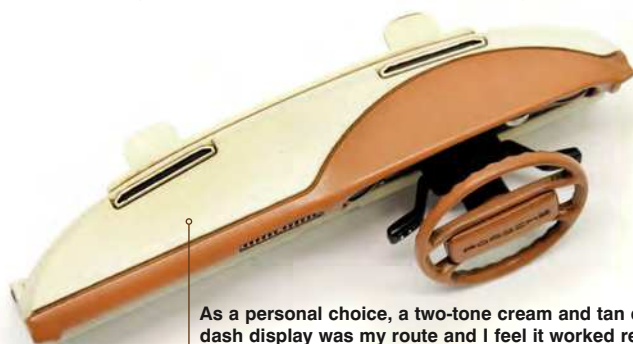
Once the initial base colour was laid down, all areas were masked over leaving the latter ready to take the 'Bisque Tan' coloured flocking powder



As a fixer I used a gloss lacquer for the flocking powder to stick to. There are many other methods but this has always worked for me



Centre console and surrounding internal parts are now located with the contrasting beige and tan colour working nicely



As a personal choice, a two-tone cream and tan coloured dash display was my route and I feel it worked really well. Various included decals were applied to complete the area



Further cream and tan colour work. The rear of each seat is a separate part so again, Revell helping us to keep things clean



In general there aren't too many parts to finish up the cabin, but Revell have made it easy for us modellers to work each area independently to obtain a tidier finish



Various but subtle shading was applied to leather areas to give depth and breath some life into each area



The only real extra I added to the cabin were the rear seat belts and clips. Everything else is included in the box



To keep those of us happy on both sides of the pond, Revell give the choice to fit left or right hand drive options to the vehicle. In this case, I drive on the left so went for the natural option



To accentuate the shut-lines further, I scribed all panel lines deeper for a more crisp finish

Preparing the bodywork

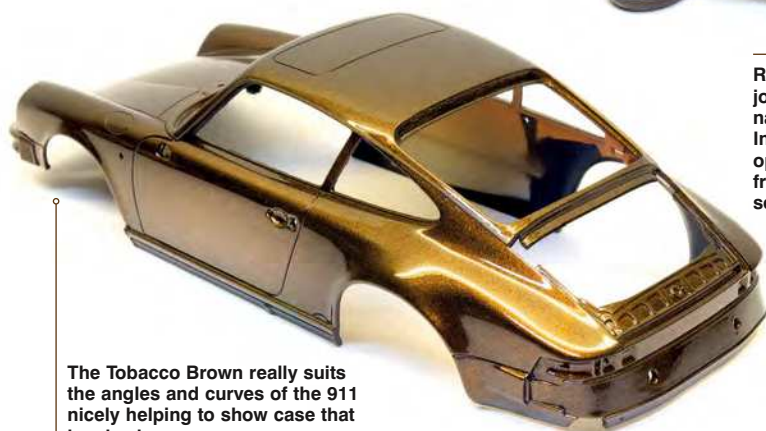


After initial prep the body received Mr Hobby's black Finishing Surfacer 1500, was sanded smooth and is now ready for some colour

Colour of choice: Zero Paints Scania edition 'Black Amber'. It's the closest I could find to Porsche's classic metallic Tobacco Brown but I think it works really well



After several colour-build layers, all panels were given Zero's Diamond Finish Gloss clear coat to seal in the work and give some serious colour depth



The Tobacco Brown really suits the angles and curves of the 911 nicely helping to show case that iconic shape

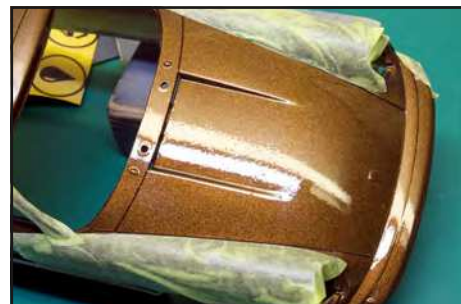
Revell have done a great job at capturing the iconic narrow body shape. Included in the box is the option to add in a standard front bumper or sports set-up with chin spoiler



In most cases I tend to sand and polish the clear to a more uniform finish. Here we see me cover the raised edges/corners with masking tape to protect them from any possible issue in the process



The same goes for the roof during the wet sanding process. Take your time applying this method checking as you go, patience is your best friend as things can quickly go wrong if you make a mistake



Wet sanding the bonnet proved to hold its own challenges so again using masking tape, the delicate areas were protected prior to work

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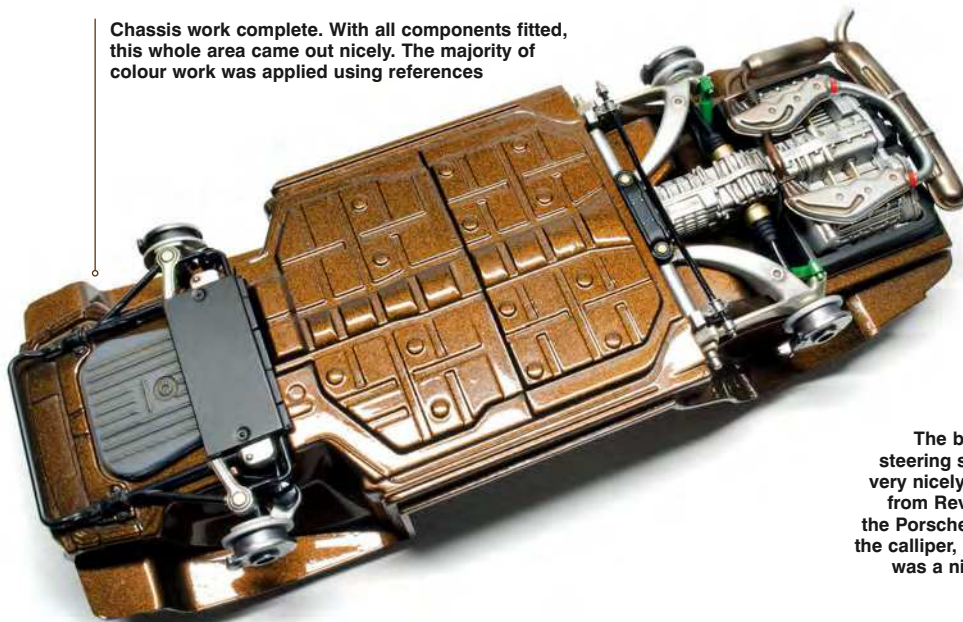
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Brakes and undersides

Chassis work complete. With all components fitted, this whole area came out nicely. The majority of colour work was applied using references



The brake and steering system is very nicely detailed from Revell. Note the Porsche logo on the calliper, I felt that was a nice touch

Painting the rear lights

● BODYWORK

Red, black, metallic grey, silver, they are all pretty generic body colours for a Porsche, so I planned to go a different route. During my many trips around the internet gazing at '80s 911s I searched for colour inspiration and then it hit me. There it was, sitting there at sunset with its deep lustre showing off those curves perfectly: a 911 Turbo in metallic brown. Wow, I am in! I never thought I'd be saying that about a brown colour.

The plan was set, all I had to do was ascertain the colour and get going. It was pretty difficult to nail down the right colour code and name but eventually I found it - 'Tobacco Brown'. Zero Paints offer a colour called Black/Amber, originally intended for a limited edition Scania truck but that didn't matter as it seemed ideal for what I needed. All body components were given a good going over during prep and I happened across some very odd sink marks on both rear quarters of the body shell. As I was one of the first to build this new model I couldn't tell you if this was specific to my version of this kit or if it's a general issue. Either way, it's something to be aware of and will need correcting on your build process if yours has it.

First up, a good few coats of Mr Hobby Finishing Surfacer 1500 Black as a base for the metallic brown, a quick sand



For coloured lenses all round the vehicle, I chose to airbrush mine for ease of application. Tamiya's X-26 Clear Orange is up first for the indicators



The lower front Euro-style fog lamp lenses were given a layer of Tamiya's X-24 Clear Yellow, whilst the brake lenses X-27 Clear Red. The paint quality is as superb as you'd expect from Tamiya



To finish up the paint process and with some careful masking, the outer light rubbers were airbrushed in Tamiya's LP-3 Flat Black



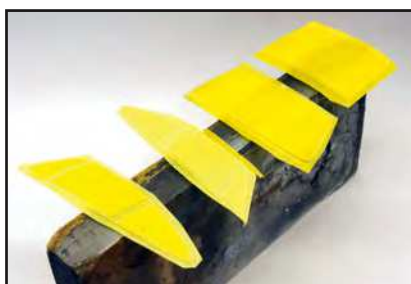
In order for the rear light panel to pop through the clear paint, chrome Bare Metal Foil was applied to the body. A clean, tidy and simple process

Once located, all that was needed to finish up was to apply the much-needed Porsche emblem along the centre. A job well done!



Painting the window frames

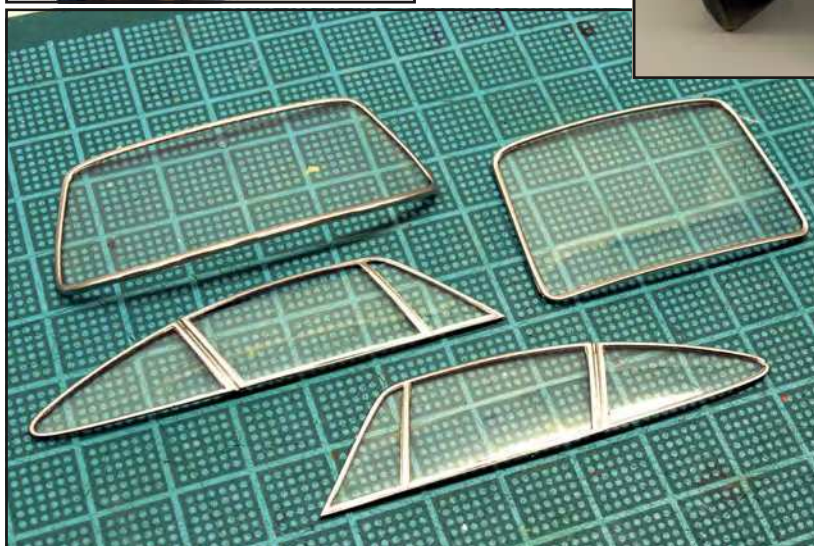
back and the parts were ready for Zero's Black/Amber. Several build-coats later and I was ready for the Zero Paints 2k Diamond Gloss clear-coat process: one tack coat, followed by a partial coat then two wet coats to finish. The results came out superbly, the Tobacco Brown colour really coming alive under the gloss, much to my relief. All panels from wing mirrors, bodyshell parts to chassis were left to cure for three or four days to harden, giving me the chance to finish up the wheels, windows and other adjoining parts. The wheels for me were a disappointment, sure they look decent enough but what a pain they were to separate for the paintwork! This is down to how complicated they were to mask off to get a sharp line of colour. Not my best work by far but from a distance would pass as decent. I added some Top Studio 1:24 tyre valves to the wheels to finish, again because I just couldn't help myself but they give the wheels a nice touch.



For me, supplying a modern kit without window masks is a bit disappointing so I took to making my own. It can be easily done by following the outer window rim with a steady hand and fresh craft blade

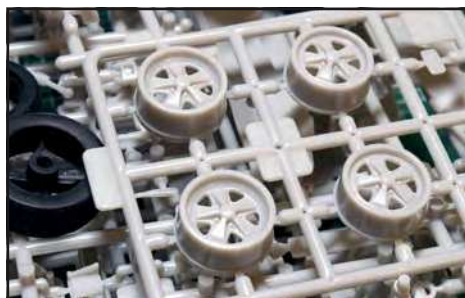


Generally the G-series model comes with black window trim, but I opted to give mine an upgraded chrome look. A gloss black base with Mr Hobby chrome was just the ticket



All windows are now ready for fitting. The final look came out great and worth the time taken to achieve

Fuchs wheels and high-profile tyres



The iconic Fuchs wheels are supplied with the kit. Take note not to mix them up as the rear wheels are slightly deeper than the fronts



For me, the wheels were the most challenging part of the build. They were painted in aluminium silver first then very carefully the centres were masked around to take the black



One wheel down, three more to go! A very pleasing process to see the masking work pay off

FINISHING UP

To seal the deal, all panels were sanded down to remove any clear-coat imperfections then polished with compounds to bring the shine back up to a showroom finish. For a more personal touch I did away with the factory black window surrounds, door handles and body coloured headlamp rings by choosing to give my build a chrome replacement pack. Tamiya's LP-1 Black was followed by Mr Color's Super Metallic Two Chrome was my process and the results came out great. All that was left now was finish up the rest of the clear parts, add in those final finishing touches and put it all together – job done! 🎯



It might have been better if Revell supplied the centres as separate components as it would have made the paintwork process less frustrating. They came out nicely enough though

Now that the tyres are fitted, all that's left to do is add in the Top Studio tyre valve upgrades and fit them to the car



FINAL THOUGHTS

I thoroughly enjoyed putting this new 1:24 Revell Porsche 911 together. Okay, so there were some issues with flash, small sink marks in odd places and although the decals laid down nicely, the finish on them is rather questionable. However, we are modellers and a problem is merely a challenge to overcome. Those issues aside, the overall model in terms of enjoyment, design quality and detail finish is up there with the best of them. I'd really like to build this one again but take things my own route, maybe an outlaw or even a street racer of sorts? Watch this space! ●



TECHSPEC...

REVELL 1:24 PORSCHE 911 CARRERA 3.2 COUPÉ (G-MODEL) KIT NO.07688

Materials:

Injection-moulded polystyrene, synthetic rubber, waterslide decals

Paints used:

- Various Tamiya Lacquer Paints plus Tamiya acrylics
- Various Tamiya Panel Line Accent colours
- Mr Hobby, Mr Finishing Surfacer 1500 White and Black
- Various Mr Hobby, Mr Color Super Metallic 2 Lacquer paints plus clear coats
- Zero Paints Scania Black/Amber (ZP-1347/30), Ferrari Leather Sabbia + Cuio (both ZP-1007/30), 2 Pack clear-coat system Diamond Finish

Accessories used:

- Top Studio 1:20-1:24 air valves (TD23115)
- MFH 1:24 seat belt buckles and material
- Zero-Designs Flocking powder Bisque Tan (ZD-FL005)
- Bare Metal Foil

Availability:

- Revell models are widely available from good model shops and online.
www.revell.de/en
- Zero Paints are available online from:
www.hiroboy.com





*"When it comes to
Porsche, no other
model is more iconic
than the 911"*





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LEVEL 5



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03847 F/A-18F Super Hornet (Twin Seat), 1:32

LEVEL 3



NEW TOOL

Parts inc. for in-flight or landed version
06781 Razor Crest™ (The Mandalorian), 1:72

LEVEL 3



NEW PARTS

Parts-inc. for 1 of 3 possible configurations
06782 Outland TIE Fighter™ (The Mandalorian), 1:65

LEVEL 3



NEW PARTS

07687 Jaguar E-Type Roadster, 1:24

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THE SCALE MODEL ULTIMATE CHRISTMAS



If your partner or best friend is an enthusiastic scale modeller wishing to improve their results, we might just have found the ultimate Christmas present for them. **TMMI's Editor** explains...

Iwata are well known for their premium quality airbrushes and have been a favourite with modellers for decades. They are made with extreme precision, whilst being robust enough to withstand constant use and clean-up. I have been using the High Performance HP-BH for several years and it's the perfect everyday 'brush' that will take everything from Tamiya XF acrylic paints to super-diluted inks in its stride. Iwata airbrushes strip down and re-assemble quickly and easily for cleaning and the

wide range of designs offer something for everyone, even those on a tight budget: the dual-action Revolution BR starts at a very reasonable £130.

At the other end of the scale we have the Custom Micron series, Iwata's flagship model for many years. It's a design that has evolved into what is considered the pinnacle of miniature spraying technology and the latest incarnation of this near-legendary device is the 'Takumi' edition with redesigned, compact body style that makes it exceptionally stable in the hand.

The Takumi is significantly smaller than the previous Custom Micron design, making it better balanced in the hand and therefore more 'manoeuvrable' in use. ▶



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EQUIPMENT REVIEW

IWATA TAKUMI CUSTOM MICRON SIDE FEED AIRBRUSH ● ITEM NO.IW-CM-350T

❶ The reduction in size has meant the versatile 'MAC' (Micro Air Control) valve has been deleted from the airbrush's lower body, but because this revolutionary little device is available to buy as a stand-alone unit, it can simply be fitted between the hose and air inlet of the airbrush, offering the use the same level of precision control as before. In fact, having tried this set-up on the Takumi, I am convinced this is a better position for it, the extra section of rigid metallic structure below the airbrush forming a more stable 'handle' and also, it is out of the way of paint drips which can gum it up.

The new Custom Micron featured here incorporates a side-mounted, 7ml paint cup which is a friction-fit to either the left or right of the airbrush: the cup comes with a press-fit lid for safety when spraying. One extra feature of this remarkable airbrush is a crown-dock on the rear of the handle, which is perfect for keeping the easily-losable needle-protector safe when spraying with the needle exposed. If you like to remove the crown cap, you will appreciate Custom Micron's crown cap dock, which stows the cap when not in use.

COMING SOON TO TMMI

I will be using this astonishing airbrush for my builds in TMMI over the coming months, so you can check out how it performs in practice. For now though, treat the one you love with a Takumi Custom Micron this Christmas, they will love you forever! ●

TECHSPEC...

Iwata Takumi Custom Micron side-feed airbrush

- Action: Dual-action
- Spraying range: micro-fine line to medium line (0.18mm to 20mm, 7/1000 inch to 3/4 inch)
- Optimal working pressure range : 0.08 to 0.10 bar (12 to 15 PSI)
- Paint cup: 7ml (1/4 oz aprx) 3ml (1/10 oz) cup sold separately
- Needle Packing: PTFE needle packing and solvent-resistant in all paint-bearing areas
- Warranty: 10 Years
- Retail price: £489 inc. VAT

Availability;

Iwata airbrushes and accessories are available from The Airbrush Company. Check out the whole range at: www.airbrushes.com



The reduced size of the Takumi CM means the MAC Valve has been deleted from the body

The box includes a moisture trap, seen here screwed to the air inlet, left



Ultra-fine spray tip, protected by the four-pointed crown



With the crown removed, the user has a direct view of the needle tip for extreme close-up airbrushing



So as not to lose it, the unscrewed crown can be kept safe on the rear of the handle



Close-up view of the needle tension bearing which can be turned to reduce or increase the ease with which the needle moves back and forth



The needle is held firmly in place by the chuck at the rear of the inner assembly



The standard paint cup holds 7ml of fluid, secured by the friction-fit cap



Here we see the Editor's well-used MAC Valve, fitted to the air inlet of the Takumi CM. These are available from: www.airbrushes.com



The size difference between an early Custom Micron (above) and the new, compact Takumi model is clear to see here



Each Iwata Custom Micron comes with a test spraying sheet and a card showing the person who did the testing!

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FULL-BUILD: STAR WARS CHARACTER KIT
BANDAI 1:12 C-3PO PROTOCOL DROID ● KIT NO.0196418

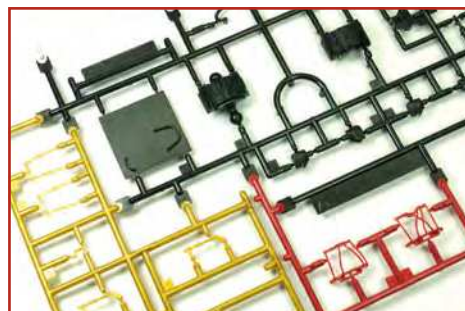
YOU ARE A PROTOCOL DROID, ARE YOU NOT?

Jan Chojnacki AKA 'Scale
Dracula' builds Bandai's superb
1:12 C-3PO and weathers him
as a dirty droid!





The shiny metallic coat of the kit is flawless. Much better than chrome coating you may know from old car models



Multicolour sprues were designed to let you build an interesting model without painting. But come on, if you're reading this you're probably not afraid of paints

In my modelling journey I usually chose complicated projects with lots of modifications and aftermarket parts. As much as I like challenges, an occasional simple and quick project is always welcomed to relax and keep my creative juices flowing. C-3PO figure by Bandai is a great little kit that a pre-schooler could put together in one lazy afternoon. It pretty much builds itself and lets you concentrate on having fun. And as weathering stages

are probably as much fun as I can get in this hobby, I decided to mess up my droid pretty bad.

Bandai's model is a perfectly designed kit: parts fit together nicely and the whole figure can be assembled without glue. I guess this is a part of Bandai's strategy to create products appealing to kids, Star Wars nerds and advanced modellers alike. And I have to say, it's working! The main parts are already covered in metallic paint which

makes the model look interesting even without painting. Honestly, this figure looks great out of the box, but I always like to make my life harder so I decided to equip my C-3PO with a set of LED eyes. If you know a thing or two about electrical circuits, you can easily build a suitable one yourself. I know I don't, so I went the easy way and I ordered a lighting kit by Tiryidium Models (www.tiryidiummodels.co.uk). ▶



A LED circuit by Tiryidium Models will need to be installed inside the C-3PO's body



The first step is to place the diodes inside the eye sockets. Then you have to start threading the wires through different parts of the droid's body



Neck is a very tight fit. I drilled a hole in the neck joint not to strain the wire too much



The lower torso was primed with Mr. Surfacer 1200



I painted the wires in different colours using a brush and acrylic colours. Then the whole part was covered in a dark grey wash



I put together the next parts of droid's body leaving them movable whenever possible. I had to plan ahead how the wire would go through and on some occasions I drilled a wider passage



When the parts were ready, the assembly went fast without any problems



The wire went through the left leg all the way down to the bottom of the foot. It is pretty thin and fragile so you have to be careful, especially on tight spots like knee joints



Bandai gives you an option of making the hands partly or fully movable. If you go for the latter like me, you'd have to paint some of the parts gold to keep the final result consistent. I used Alclad's Polished Brass and Chrome. Then the parts were sealed using Tamiya's clear varnish

FULL-BUILD: STAR WARS CHARACTER KIT

BANDAI 1:12 C-3PO PROTOCOL DROID ● KIT NO.0196418

❶ FITTING THE LEDS

As I already mentioned, the construction went as smooth as butter. I honestly felt like I was making a LEGO kit, not a regular scale model. The Bandai kit gives you a couple of detailing options as well as a choice to make hands partly or fully movable, but none of these will make you sweat. However, installing the LED circuit is a little bit more challenging. Although pretty thorough instructions came with the set, at some points I struggled to pass the wires through without breaking them and still be able to eventually put the figure together.

When it comes to painting there's one big question you'll have to ask yourself: "do I keep the factory metallic finish or do I paint my own?" Getting rid of the golden plating is actually quite easy – all you have to do is throw the parts into a specific chemical like brake fluid and leave it overnight before scraping. Then you'll have to recreate the look using your favourite metallic paints. As a tank modeller, I don't really feel comfortable working with shiny stuff. Neither did I see the point of stripping the golden paint that looked spectacular in the first place. I decided to leave the original finish but dull it down considerably to make my C-3PO look dirty and neglected. But before that I had to paint some of the parts anyway – mainly the lower torso covered with wires and some other minor details. I did that really quick and I was ready to weather the figure.



And here's how the model looks after assembly. The shine of the factory-applied golden coat is spectacular and I wouldn't blame you for keeping it as it is. But for me, a hardcore weathering was the only option...



The lower torso was sealed off using Tamiya Masking Tape. The fact that all limbs are removable can spare you some additional masking



The whole figure was cleaned and then sprayed with a thin layer of AMMO's chipping fluid



Then I started spraying satin varnish in thin, controlled layers. The point is to dull down the gloss effect, not to get rid of it all

Some of the varnish was removed immediately using a brush dipped in tap water



I'm always trying to use different tools to achieve various chipping effects. An old airbrush needle is perfect for recreating scratches and tiny chips



I added a few drops of beige paint to the varnish I used before. Then I sprayed the diluted colour only in some of the areas, mostly around details and in the crevices. These are the places that would most likely collect grime



I once again used a needle to create scratches going all the way down to the shiny golden base. This created a nice contrast with the flat top layers



The silver parts were treated with a very similar fashion. Light grey colour was used instead of beige

VARNISH LAYERS

I'm not a Star Wars geek and I don't really know what metal the actual C-3PO was made from. His appearance seems to change slightly from film to film. I needed a real life example of a corroded yellow metal and I took some inspiration from the pictures of weathered brass. I really liked

the different levels of oxidation this metal can go through – there is a wide spectrum of colours and the surface can go from shiny to an almost dead matt finish. To recreate it on the miniature I basically used satin varnish, diluted and sprayed very carefully in thin layers. Using the hairspray technique, you can strip down the varnish to reveal some

gloss on the areas that would logically be more polished. And to gain more control over the effect and to get more sophisticated finish, you can break down this whole process into various steps, slowly building up the patina. Finally, add some regular opaque paint to the varnish to recreate the most weathered areas, mostly around details. ▶



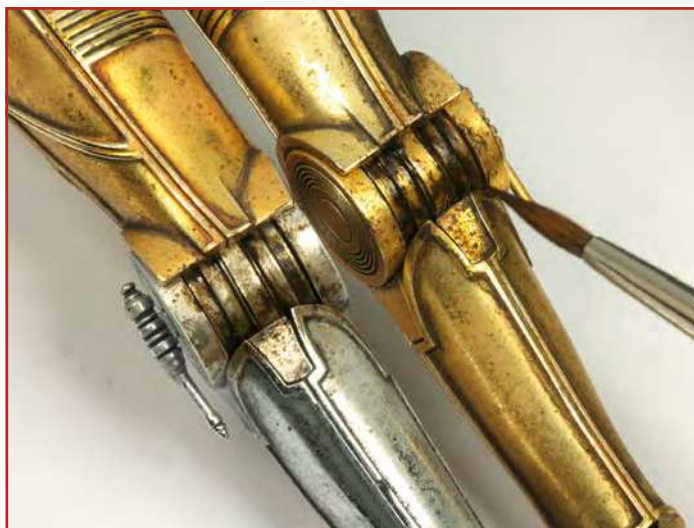
Next I applied a home-made dark brown oil wash around all the details. This is usually a game changing stage and this project was no different. The wash sealed all the previous layers and gave the figure some definition



Tamiya's panel line wash was used to speckle some tiny blemishes and discolourations. It is a good idea to cut out certain areas with masking tape, thus creating some additional contrast



Tamiya's wash is a low opacity product which gives a lot of control during application. With multiple layers you can achieve interesting grime build-ups with smooth transitions



I mixed AMMO's Engine Fuel & Oil product with some dark brown pigment to get a sticky glossy paste. It was then applied around moving parts like knee joints. The result was a realistic recreation of old grease mixed with dust



Last but not least, I painted the eyes with Tamiya X-24 Clear Yellow paint. And that's how my C-3PO was finally finished!

FULL-BUILD: STAR WARS CHARACTER KIT

BANDAI 1:12 C-3PO PROTOCOL DROID ● KIT NO.0196418

GOOD OLD PROTOCOL DROID

After establishing the worn out metal base, I used various weathering techniques and products to create grime and dirt effects. I like to think that the perfect weathering is a mix of randomness and logic. Even though this is a sci-fi model, some basic rationalisation can guide you on where to apply a certain effect – this refers to things like oil stains or scratches. However, planning

the whole process meticulously would probably end up in a fake, unrealistic result. So a little bit of chaos is also welcome.

All in all, it was a very pleasurable project and I'll be definitely trying other models from Bandai's catalogue. No matter what is your attitude towards modelling, there's a great chance you will also have a lot of fun building this good old protocol droid! ●



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Model by Wayne Hui

Model by Jeremy Moore

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CHIEF OF THE CLAN

Last year, as the pandemic hit and lock-downs bit, **Spencer Pollard** found himself at a loose end. He decided that time would be well-spent looking at older Tamiya kits and then creating a collection of models, followed by dioramas, that would memorialise not only Tamiya's classic Military Miniatures Series, but also the work of a certain François Verlinden...

At first, the idea was rather vague, but as discussions were had, especially with our friends at the Hobby Company, a plan was formulated to build and paint Tamiya's best sellers, a top-5 if you like. Liking that, the kits were collected together and work began. For those that don't know, the list was as follows:

- German Panther Medium Tank - 35065
- German 88mm Gun Flak 36/37 - 35017
- German Panzerkampfwagen II - 35009
- German Hanomag Sd.Kfz.251/1 - 35020
- British Chieftain Mk.5 Tank - 35068

As you can see, the Chieftain is the only kit on that list that both British and Post-War! All of them though share one thing in common: they've never left the catalogue since their release in the Seventies, forming the basis of range that continues to grow to this day. Today, they are readily available and for a beginner new to the hobby, they offer amazing value for money, are very simple to build and look great once complete, even when built for the box. ▶





FULL-BUILD: GOLD WAR NATO ARMOUR

TAMIYA 1:35 BRITISH ARMY CHIEFTAIN MK.5 ● KIT NO.35068

The completely assembled model, ready to be painted. Having worked on this very quickly last year there aren't any images of the model under construction, but these will give you a fair idea of how the model came together and the additional detail that helped to improve the basic kit



❖ INITIAL THOUGHTS

Released in 1975, Tamiya's Chieftain was, for many years, the only way you could build this kit in 1:35. Now superseded by the Takom kit (and then by the soon-to-be-released MENG offering), the kit allowed fans of British armour the chance to build this stunning battle tank with ease.

Nominally a Mk.5, the kit offered high levels of detail that must have been very well-received all those years ago. As time passed by and modellers became more informed, its inaccuracies and lack of detail would be highlighted, but for thousands

of modellers keen for a simple project, this one would fit the bill, warts and all.

Open the box today and you are faced with a straightforward kit moulded in dark green plastic. Classic Tamiya features can be found everywhere, with holes on the underside of the hull for redundant electric motors, single-length vinyl tracks, polycaps for the roadwheels, a neat set of crew figures and a well-drawn instruction sheet, complemented by the inclusion of a neat decal sheet, all present and correct. It's a classic Tamiya 1:35 kit!

Detail still looks to be well done, but there are obvious simplifications that point to age, rather than any inherent flaws. Open sponsons are one such compromise. Hidden by single-part side skirts, they become visible if as I have, you leave the skirts off. Tracks, though simple to use, are lacking in detail and those polycaps, vinyl hubs that hold the wheels in place (necessary back in the day, when play value was as important as scale fidelity) are a pain to clean up and a bear to paint, their soft plastic properties



holding paint as well as you might expect. But, and this will become apparent as this feature develops, none of that really matters. This kit still builds into a replica that looks every inch a Chieftain and with a little TLC, some imagination and parts from the spares box, you end up with a model that demands more than a passing glance.

FROM THE BOX, OR NOT..?

Initially, I'd planned to build this model from the box, painting it using techniques from the 'Verlinden Way' series of books, ideas that had been used with the other four models listed above. Having begun construction, that plan was amended slightly, a decision being made to add detail to the model here and there, replicate a camouflage net (an idea that most definitely was stolen from François's series of books!) and then build a vehicle that represented a machine used in Germany during the type's service with the British Army Of the Rhine (BAOR). I also decided late on to leave off the skirts. Years ago, one of the first books I ever bought was 'British Battle Tanks: 1945 To The Present' by Simon Dunstan (Arms & Armour Press, Tanks Illustrated No.3) in which was a great picture of a Chieftain crossing a ploughed field with its skirts removed. I'd always liked the image and thought that the vehicle looked cool that way, so that's how I decided this model would be set up. Decisions made, the model was grabbed and work begun... ▶

Perhaps the most distinctive part of this model is the camouflage netting. Described in the text, this was a very simple addition, that tipped its hat to the Verlinden Way and models that I built as a far younger modeller! In terms of basics, the netting that you see here, was created using some VP Camouflage Netting cut into squares, soaked in PVA and then draped in place. If you don't have any of that, you can as described in the text, use surgical bandage which is almost identical



With the netting in place, you can texture it with tea leaves held in place with a few more drops of PVA. Everything can then be left to dry out, the result being rock-hard netting that can be painted and weathered with ease. In this shot you will also see many of the accessories that were grabbed, cleaned up and then dropped in the stowage bins. At this point they are only in there for the image, each being painted separately and then fixed in place during final assembly



The tow cable was replaced with a short length of picture-hanging wire, the cable ends being taken from the kit parts, drilled and then held in place with superglue. The white squares in this image are the simple hangers for the missing skirts, each being made from a square of thin plastic card, held in place with Tamiya Cement

Without the skirts, the Chieftain has a rakish look that I think looks really purposeful. Not only that, the detail that Tamiya include around the wheels and suspension can be appreciated, something impossible with the skirts in place!



CONSTRUCTION

Assembly, as you might imagine, is straightforward with little to catch the unwary. In these days of kits with a parts count in the hundreds/thousands, seeing one that is so simple in its breakdown, is certainly welcome. That's not to say that there aren't some areas worthy of note, but what there is really ought not tax anyone but the absolute beginner.

We begin with the lower hull. Mentioned earlier, the model was originally designed with motive power in mind, so you will need to look at blanking off the hole for the switch towards the rear of the belly plate, and then fill in the holes either side off the hull (just above the fourth road wheel on each side) that would have been used for an internal bulkhead that held the motors in place. Whilst in that frame of mind, you might also decide to deal with the slot that is moulded as part of the sprocket mount and indeed, the lower hull inside of each one. I chose to ignore this issue, but you might be more inclined to hide this ancient compromise.

Suspension and road wheel construction is a thankfully speedy process. No-one really enjoys this part of a build, so seeing only a handful of parts coming together to create the illusion of complexity, is welcome. The suspension mounts are all moulded in one part and so need some careful clean-up, especially when revealed as we have here. Similarly, the wheels need to be carefully sanded to remove any burrs left over from their removal from the runners, and then smoothed to deal with unwanted seam lines, in this case carried out using sanding sticks and Scotchbrite. Mentioned earlier, all wheels are held in place with vinyl hubs, press-fit into place. Though detail on these parts matches their surroundings, painting is tricky so be careful as that part of the build, progresses. The rest of the lower hull can then



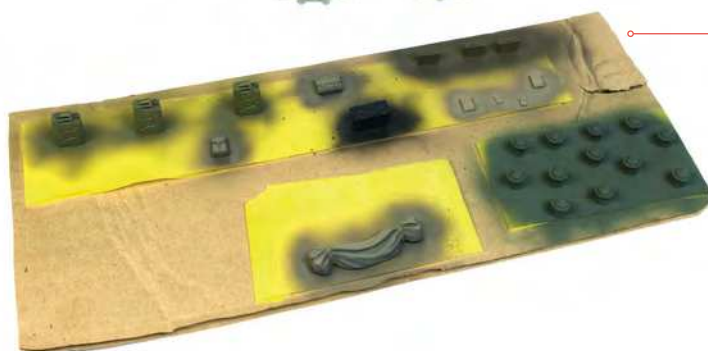
There are a number of colour schemes that you can use on the Chieftain: overall green; green and black camouflage; and the wonderful, BATUS scheme of green and sand. Here, I went for the classic green and black...



As mentioned in the text, the camouflage was applied using Tamiya acrylics, applied over a base-coat of Halfords Satin Black. In order to create a scheme that was more 'in-scale', Tamiya Field Grey was used for the dark green and then NATO Black cut with a few drops of German Grey, for the black. Happy with the pattern (applied freehand using my Iwata HP-CH), each colour was altered slightly to include highlights and shadows. This is particularly apparent over the surface of the black, where very thin layers of German Grey have broken up the finish in a most pleasing manner.



The wheels were all base-coated in Halfords Satin Black, the tyres sprayed with Tamiya Rubber Black and then using a circle template, the hubs were airbrushed in Field Grey. Using this method of painting, the wheels were all finished as you see here in less than thirty minutes: a perfect time-saver!



Smaller parts, including stowage and those vinyl hubs were all mounted to a piece of cardboard and then airbrushed in their relevant colours. When it came to the stowage, I used as many shades of yellow as possible to ensure that all of the items appeared distinct from those that found themselves alongside each one



The first layer of weathering is in place. This was an airbrushed coat of thinned Humbrol Dark Earth lightened slightly with Khaki Drill, and then diluted with around 70% enamel thinners. This layer was applied haphazardly to cover the model and then with a soft, flat brush moistened with white spirit, the paint was removed from the inside of the panels so that it only appeared around the detail



Seen over the glacis plate, the weathering layer can be appreciated. Here, you can also see how the paint has been dragged over surfaces to create the illusion of rain-wash, this being seen dropping down from the splash guard and over the surface of the mudguards



The turret has been similarly treated with its layer of weathering and then the nets sprayed with an initial layer of pale green. For the nets, I opted to paint them with a more vibrant shade of green, so mixed NATO Green in with some Field Grey as the base coat and then added some Yellow Green into the pot to add some highlights here and there



Happy with the basic layer of dust, my mixed Dark Earth/Khaki Drill colour was thinned again with white spirit and then this colour washed around details to further bulk-out the dusty layer. Here, that can be seen in place on some of the hull's stowage bins

be completed by the addition of nose-plate details such as two hooks and then the rear hull plate, stowage boxes and exhausts. Detail and fit is neat enough, though I am sure that recourse to your references will show you what's missing and what could be improved.

The upper hull is essentially moulded in one piece, with the majority of additional pieces taking the form of stowage bins and then the vehicle's lights. Having made the decision early on, this is where I planned for the missing skirts, by removing the far from prototypical clamps from the edge of the vehicle's mudguards.

Needing little more than a pair of sidecutters, a round scalpel blade and some wet & dry paper, these were easily dealt with, ready to be replaced with some simple plastic card mounts: nothing fancy, just a representation of the angled plates from which each section of the Chieftain's side-skirts hang.

SMALL ADJUSTMENTS

Worthy of note at this point is that the fit of some of the smaller items, including the light clusters, splash-guard and lifting eyes, is not that precise, so you may find that a little filler comes into play to deal with unwanted gaps. On this model that took the form of some Mr. ▶



Oil stains came next. Using a mixture of Raw Umber and Burnt Sienna oil paints, gloss enamel varnish and a little enamel thinner, the filler caps were defined and then my 'oil' colour flowed around the engine deck and down the sides of the hull, anywhere that I thought was appropriate. Having left the paint to sit for a while, it was carefully blended in to soften the edges, this being done with a small flat brush used dry, to buff the paint into the surrounding panels and plates



The hull, treated to several layers of weathering. Not only has this added a wonderful air of use, it has helped to soften that basic camouflage finish and make it appear more in-scale

◀ Surfacer 500, applied with a fine brush and then any unwanted material removed with a cotton bud soaked in lacquer thinner: simple, quick and easy.

With the hull complete, you can tackle the large and very distinctive turret. Once again, the design and assembly of the turret reflects the age of the kit with simple breakdown and low parts count. Fit is actually really impressive, which helps with the canvass-covered gun barrel and that cast turret, where gaps would be most unwelcome.

When it came to joining the turret halves, I turned to my trusty supply of Tamiya 'white cap' Cement, its resin component helping to create a very tough joint that was easy to smooth over, without any need for additional work. Happy with that, the rest of the details could be added. Though this was an enjoyable process in the main, the stowage baskets proved to be fiddly to clean-up and assemble. Age has been relatively kind to the moulds for this kit, but even so, each bar on these baskets needed to be very carefully smoothed out, scraping with the tip of a Swann-Morton No.10A scalpel blade and then remedial work with diamond files, being needed to create usable parts.

Smaller details on the turret are reasonably easy to clean-up and locate, with only the crew hatches causing consternation. For some reason, the designers figured it would be a good idea to once again offer parts, in this case around

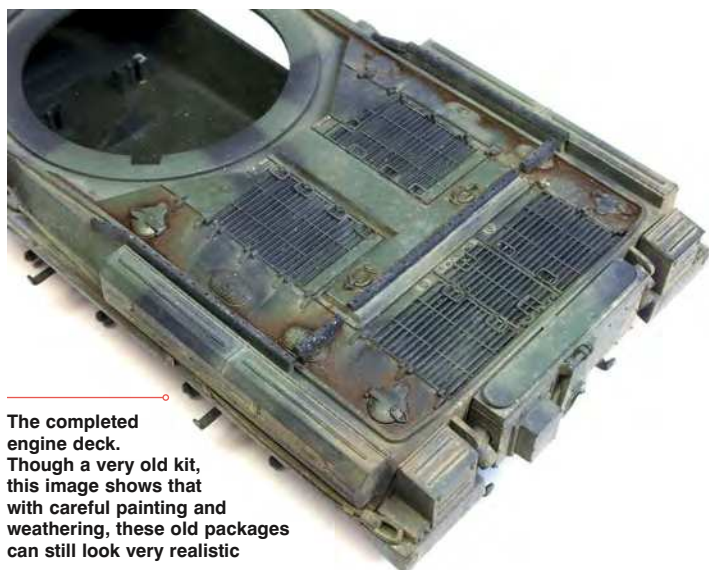
the hatches, in vinyl, these being the hinges for each one. Not only are these tricky to clean-up neatly, they are difficult to glue in place. I admire Tamiya's confidence in them being able to stay in place with friction alone, but that was certainly not possible on my model! As it was, a few drops of superglue were needed to keep each one in place. The horse has no-doubt bolted and is now off into the distance, but it really would have been preferable to see these in plastic!

DETAILS, DETAILS...

Though I didn't detail this model per se, I did add accessories and then that camouflage netting. Both of these helped to improve the look of the model and then create the illusion of a machine on exercise, albeit in 1:35. First things first: that camouflage netting. Anyone of a certain age, will have made camouflage netting using the ideas and materials seen in the Verlinden Way Volume II: medical bandage, PVA glue and either flocky model railway grass, or in this case, tea leaves! The way you create these nets is very simple. Take some of ▶



One of the steps that I enjoy most is the recreation of splashed mud and dust. Though it's tempting to do this with enamels, I tend to use AMMO's Medium Density Mud Splashes, a material that can not only be applied with ease, but once in place, can be blended in with a soft brush to create very soft-looking layers of dirt. Here, that can be seen over the glacis plate, especially over the mudguards where this light colour contrasts beautifully with the underlying NATO Black camouflage



The completed engine deck. Though a very old kit, this image shows that with careful painting and weathering, these old packages can still look very realistic



Lancia Delta HF

integrale 16v



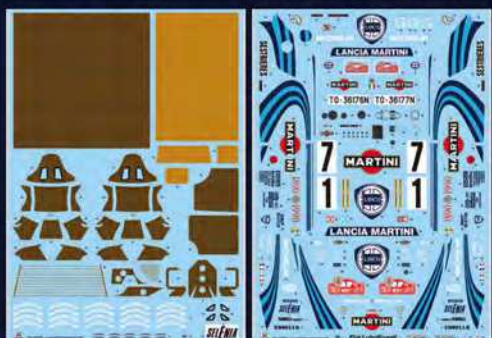
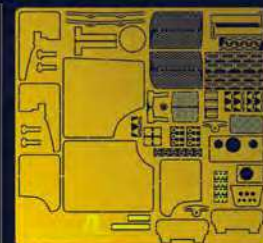
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❶ the bandage and then cut it up into 2" squares. Once you have enough, drop each piece carefully into some thinned PVA, or as I did here, lay each one out onto your cutting mat and then apply the thinned PVA over each one with a flat brush. Once soaked, carefully pick each square up with some flat tweezers and then drape them carefully over the model. Here, I concentrated only on the turret, but you can apply them to anywhere you feel to be relevant. Once in place, tear open a tea bag's corner and then sprinkle the contents over small sections of the netting, fixing your scatter in place with some more PVA. You can then use a paintbrush to move the netting around until it looks to have dropped in place by the crew, each piece exhibiting natural folds and creases. And that's it: I told you it was easy!

Part of the drive for the Legacy Collection, of which this model forms the basis, was to show modellers how cheap the hobby could be. Given that this kit is still very inexpensive to buy, I wanted to ensure that any add-ons and accessories would be created either from scratch, or grabbed from accessory sets that I already had. That being so, I opened up a few boxes of Tamiya accessories (some of which I've had for years!) along with a few from Italeri that had been bought for the entire collection. These simple plastic items, such as jerrycans, a few bedrolls and some hanging tarps and bags, though not entirely prototypical, looked pleasing enough once painted. This I think is something that is worth bearing in mind with builds such as this, where the overall look of the completed model was more important than absolute accuracy. I'm sure that there are modellers who will be able to pick holes in my choices, but equally, there will be others that are happy with the way the completed model captures the look and feel of the real machine. Me, I'm happy to go with the latter! ❷

Because the suspension and running gear needed to be more heavily weathered, AMMO's North Africa Dust was cut with a little Raw Umber oil paint, thinned and then heavily washed over the suspension units and lower hull plates.

Any excess was removed and to leave the wash around detail and then everything treated to a thin airbrushed layer of Tamiya Buff, the results being seen here



The wheels were dealt with in exactly the same way as the suspension, though this time the hubs were accentuated further with the oily mix used over the engine deck. I also flicked some Medium Density Mud Splashes over the wheels to further bulk out the weathering...

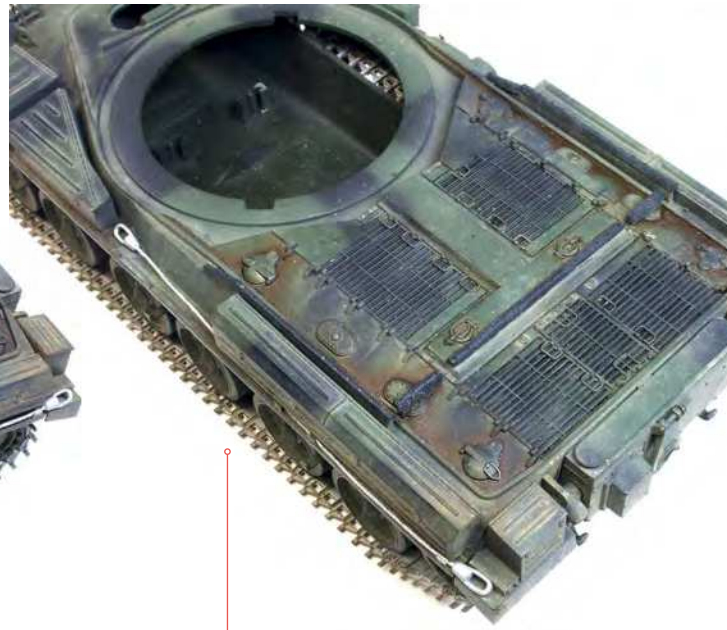


...The results being seen there. As with the rest of the paintwork, this was a very simple set of steps that quickly and efficiently created some pleasingly weathered details



The wheels and tracks have now been fixed in place and any touching-up carried out to repair damage to the paintwork. Though many modellers will paint their tracks in dark colours, my reference pictures revealed that Chieftain tracks were far lighter, so that's what I went for, Tamiya Flat Aluminium lacquer being used to base-coat the tracks, before washing the details with Raw Umber. Track pads were picked out with Vallejo Dark Grey and then weathered using the same steps used for the roadwheels

The completed lower hull. Multiple layers of weathering have brought out the detail that is still so impressive on the kit parts, to create a well-used machine. Note also, how different tones of dirt and dust have added interest and realism



The pale steel tow cable contrasts nicely with the surrounding camouflage. The engine deck certainly shows off many of the weathering effects that were tried out on this model, each combining to hide the age of the basic kit and create something that looks far more up-to-date

Though the camouflage nets were originally painted pale grey, they seemed a little lost on the model, so were broken up with patches of red brown, a colour seen in my reference shots. The netting was then heavily drybrushed with Humbrol Khaki Drill, lightened with white to bring out their texture



FULL-BUILD: GOLD WAR NATO ARMOUR

TAMIYA 1:35 BRITISH ARMY CHIEFTAIN MK.5 ● KIT NO.35068



The small collection of accessories were fun to assemble and paint. Each was base-coated with Tamiya acrylics and then washed with oil paints, before detailing each with Vallejo acrylics. I treated each of these accessories much like a figure, with highlights and shadows being incorporated in a controlled way. More importantly though, I wanted them to appear distinct from the vehicle and reflect the material used to make each part, fabric and metal



One of my favourite details is this roll of tarpaulin that hangs from a length of tubing that spans the glacis plate above the splash guard. Having found something similar in one of my reference photos I was keen to recreate it in miniature, so was pleased that one of the parts from Tamiya's 'Allied Vehicles Accessory Set' could be used with little further adjustment, only some paper-strip straps being needed to complete the picture. Note the driver figure, one of three crew figures that are supplied in the kit. He was painted entirely with Vallejo acrylics

PAINTING AND WEATHERING

This will be shown in more detail throughout the images, but perhaps a few pointers here might not go amiss. Though I'd been working on the Legacy Collection using an entirely focused suite of Verlinden techniques, this model was the first of two that deviated from that route to create something a little more up-to-date, my Panther Ausf.A, being the other. In

essence, this translated into a series of steps that created a model that was, shall we say, a little more degraded and less, 'polished' than the other builds.

I began work by airbrushing the model in its camouflage. British vehicles at the time were painted in dark green with black disruptive camouflage patterns. Now, I could use a 'dark green' and then flat black to complete that

finish, but I always feel that looks too dark in miniature, so tend to opt for a more muted finish. In action, this includes the use of Tamiya Field Grey and then NATO Black, both of which are lighter in tone, but together, look perfectly in scale for this scheme. Both colours were airbrushed on to the model freehand, including the NATO Black, but in this case, over a base-coat of Halfords

Satin Black. Though not entirely necessary, I felt that this would be a useful step, ensuring as it did that all of the additions - including that netting - were completely covered and that there wouldn't be any areas that looked to be unpainted! It also allowed me to play with highlights and shadows, not too much, but just enough to create a slightly busier finish. ▶

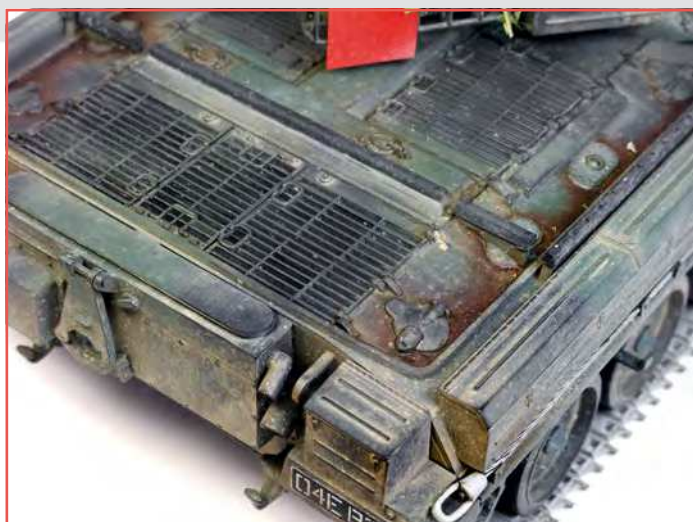


The crew figures and some red exercise plates, complete the turret. As mentioned earlier, the figures were painted in acrylics, Vallejo colours being used to create the finish seen here. As with the camouflage, though the uniforms should be black, the use of grey shades helps to scale them back and allow them to blend more naturally in with the surrounding paintwork. The exercise plates are simple squares of thin plastic card, sanded smooth and then sprayed with a 50/50 mix of Tamiya Flat Red and Gloss Orange to create this vibrant red that contrasts so well with the camouflage





The heavy weathering applied to the surface of the model can be easily appreciated in this shot of the turret's rear wall. Note the look of the netting, the stowage in the bin (another Tamiya part from the 'Allied Vehicles Accessory Set') and the smaller items of kit between the commander's and gunner's hatches



Dust and oil combine to create the illusion of use. Note the rubber guards over the engine deck. These were painted in a 50/50 mix of Vallejo Black and German Grey, toned back with a thin wash of Khaki Drill



The decals all came from the kit. Rather than painting then underlying surfaces with gloss varnish, the decals were floated onto a layer of wet Johnson's Clear, which was trapped under the decals to completely reduce the chance of silvering. Once dry, they were oversprayed with Mr. Color GX Flat and then blended in with a little weathering. Note the look of the hubs now that they have been painted. Their Vinyl construction meant they each needed to be carefully touched up as paint was removed when each one was pushed in place - a needless and frankly annoying step!

FULL-BUILD: GOLD WAR NATO ARMOUR

TAMIYA 1:35 BRITISH ARMY CHIEFTAIN MK.5 ● KIT NO.35068



In order to further break up the finish and heighten the look of a machine on exercise, small foliage branches were added around the hull, not too much, just enough to get the point across. These came from the MiniNatur/Silfor range, little pieces being broken off and then slid into recesses around the hull and turret

The most heavily weathered area of the models is that found around the rear hull, where the entire collection of steps used elsewhere combined to create this filthy appearance. As with the other markings, these were applied with Johnson's Klear and then blended in with matt varnish and some additional weathering

❶ With all paintwork complete, weathering could be applied. This was almost entirely carried out with Humbrol enamels, sprayed on, washed on and flicked on. The look I was going for was a vehicle that had been out in the field for some time and suffered at the hands of dirt and dust, where those weathering agents had settled on the vehicle, around detail and then in

all cracks and crevices. In order for this to work, I used lighter colours for all washes, Dark Earth and Khaki Drill, amongst others. Counter-intuitive it may be, but this scheme is very dark, so the use of my standard collection of washes, Raw Umber, Flat Black, Payne's Grey, really wouldn't work, those washes disappearing against half of the scheme. But more than that, I was

looking for something that looked more natural. Dark washes look great on models, but often they really only impart the look of shadows, rather than creating the look of dirt which in the case, I was most certainly trying to achieve! And there we have it, another classic kit from Tamiya's standard-setting Military Miniatures Series, complete! ●

TECHSPEC...

TAMIYA 1:35 BRITISH ARMY CHIEFTAIN MK.5 KIT NO.35068

Materials:

Injection-moulded polystyrene, polycaps, waterslide decals

Paints and materials used:

- Tamiya Acrylics: XF-65 Field Grey, XF-69 NATO Black, XF-7 Flat Red, X-6 Orange, XF-63 German Grey
- Humbrol enamels: Dark Earth, Khaki Drill
- AMMO by Mig: North Africa Dust

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 light-coloured tracks really pop against that drab camouflage. Maybe next time I'll build one of these kits with the skirts in place, but in the meantime, I think that modelling one without them was the right path to choose!



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Airfix's breathtaking new 1:72 AVRO Vulcan B.2 is on the receiving end of some spectacular photo-etched brass details this month, addressing the cockpit, cavernous bomb bay and undercarriage housings. Eduard's own 1:48 Sopwith Camel gets a choice of engine (Bentley and Clerget) in the Brassin' line, each powerplant created in 3D print. The detail in these 'mouldings' (printings?) is quite simply incredible.

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- Sopwith Camel Bentley Engine (648677) for Eduard
- Sopwith Camel bomb carrier (648662) for Eduard
- Me163B wheels (648684) for Gaspach
- Mi-24D wheels (648685) for Zvezda

1:72 PHOTO-ETCHED SETS

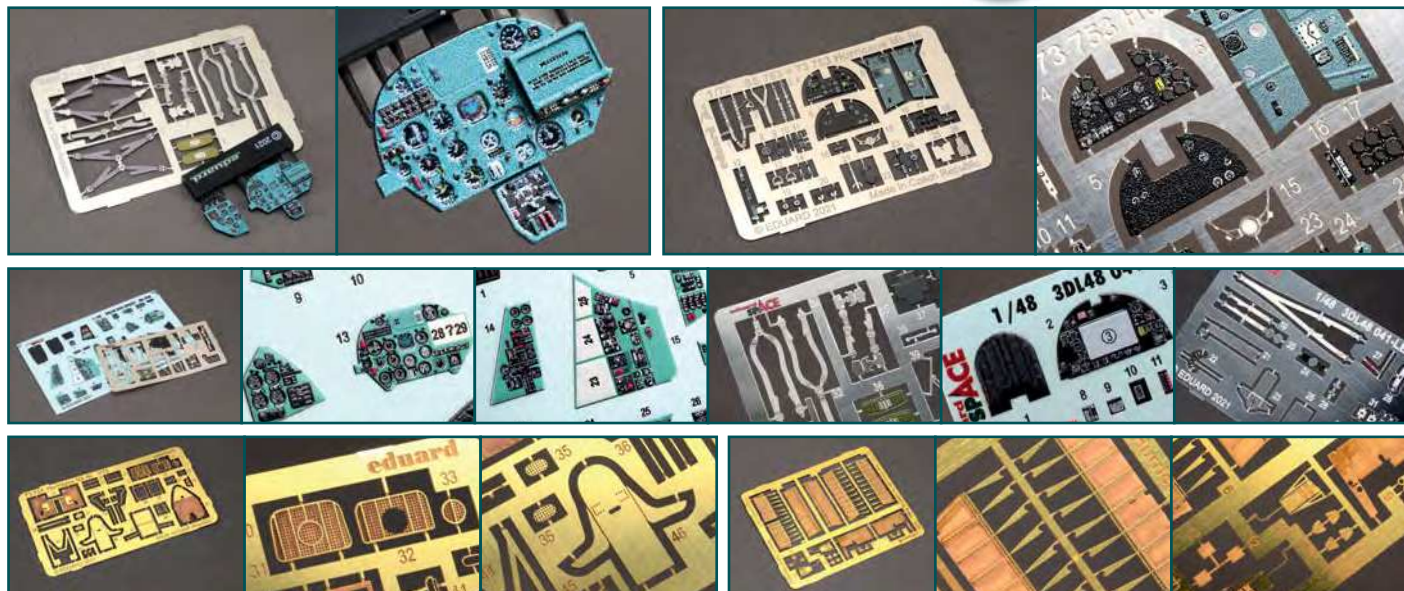
- Vulcan B.2 (cockpit) (73748) for new Airfix
- Vulcan B.2 bomb bay (72715) for new Airfix
- Vulcan B.2 undercarriage (72716) for new Airfix
- Hurricane Mk.IIc landing flaps (72717) for Zvezda
- Hurricane Mk.IIc (cockpit) (72753) for Zvezda

1:48 SPACE

- Spitfire Mk.XVI SPACE (3DL48041) for Eduard
- Mi-24D SPACE (3DL48043) for Eduard

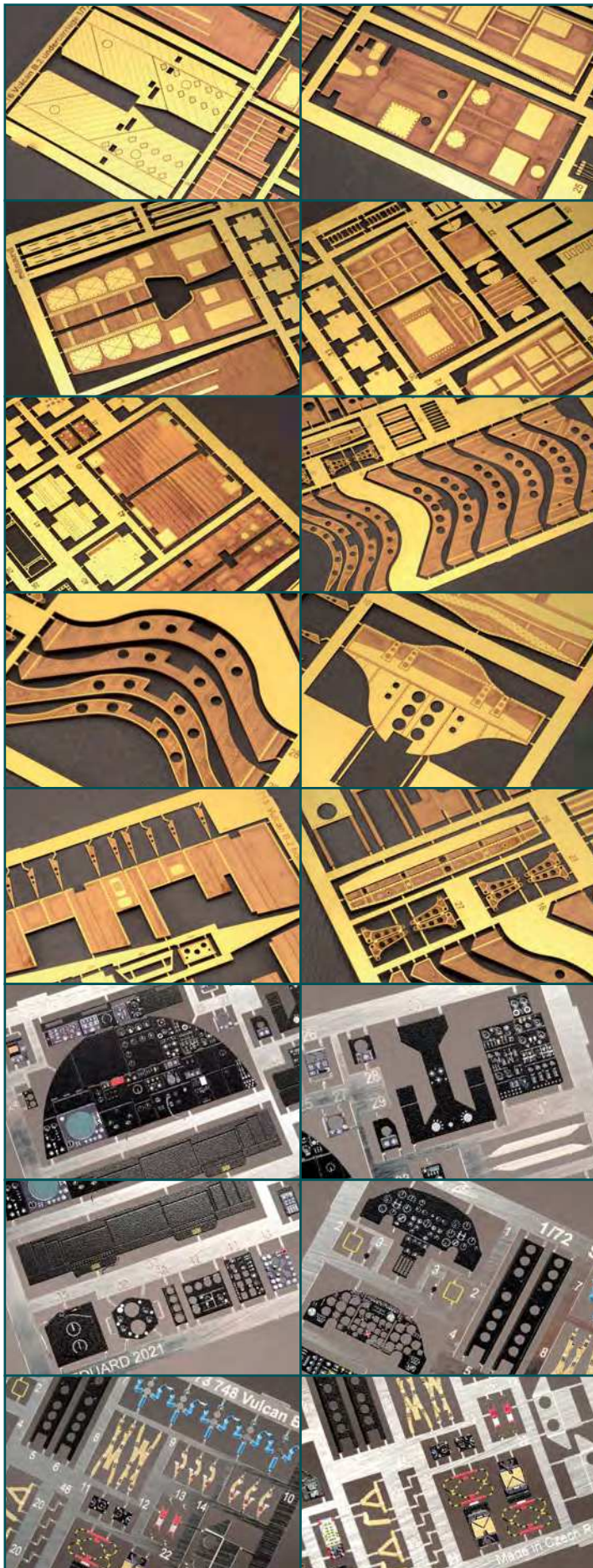
1:48 LÖÖK

- Mi-24D Hind Löök (644121) for Eduard



Accessories

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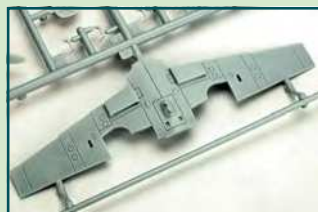
When most modellers think of Airfix, they think of 1:72 aircraft kits. This release sees Airfix with the Messerschmitt Bf109G-6 in 1:72 scale. This model was originally tooled back in 2009, with releases of different markings and schemes following. Moulded in the typical blue/grey plastic that has become expected from Airfix, the modellers are provided with three sprues of plastic and one clear sprue for canopy parts. Fuselage halves, cockpit parts and wings make up the bulk of the assembly and this model will not be taxing on the modellers time or skills. A pilot is included in this kit with the option to have landing gear up so that the model can be displayed in flight. Two marking options are provided from the box, the first being the Bf109G-6 flown by Major Hermann Graf, Jagdgeschwader 50, Wiesbaden, Erbenheim, Germany, Autumn 1943. And the second aircraft being flown by Lt. Manfred Dieterle, 3./Jagdgeschwader 300, Bonn-Hangelar Airfield, Germany, March-April 1944. Both options are visually interesting, seeing the first option with a striking red nose and white tail, with the latter being a black belly night fighter with a red band tail. Either way, the modeller will have a tough time deciding which great marking option to choose from. **IJT**



Low part count and a nice quick build for any skill level



Soft plastic



AIRFIX, UNITED KINGDOM DE HAVILLAND CHIPMUNK T.10

www.airfix.com

SCALE: 1:48 • MATERIALS: IM, WS • ITEM NO.A02029B

The tiny De Havilland Chipmunk trainer is an absolute icon of Canadian and British aviation and it was a natural choice to Airfix to create a new kit of it in 1:48, to 'follow up' their 1:72 release from 1969! The new model comes on three pale grey sprues, plus one in clear for the canopy and landing/nav lights and four very attractive markings options are provided: 'G-AOSY' (WB585), a restored machine in the red/white/silver colours No.2 Flying Training School (2020), WB549 in silver/yellow and was the first British Chipmunk as seen at Farnborough, 1949, WK608 from the Royal Navy Historic Flight in silver/red and the dark green/ dark earth camouflaged WP964 of the Army Air Corps, Middle Wallop, 1968. The decals are impeccably printed and in perfect register. The model comes with a wonderfully realised replica of the Gipsy Major engine and is replete with details such as firewall, oil tank, engine bearers and exhaust manifold. Thanks to individually moulded cowlings panels, this little work of art can still be seen after completion. The cockpit replicates perfectly the spares arrangement of the real aircraft, but there are nice touches are individual seat pads with harnesses plus instrument panels with decal-dials: it is all extremely well done. One big highlight of the kit is the simulation of a stressed skin across the wing ribs, executed very subtly and in-scale. A beautiful, thoroughly detailed model of a classic - what's not to love? **TMMI**



Unimpeachable subject choice, very impressive detail inside and out, attractive markings-options



To criticise this lovely production would just be churlish!



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EDUARD, CZECH REPUBLIC BF109E-1/3/4 ADLERANGRIFF

www.eduard.com

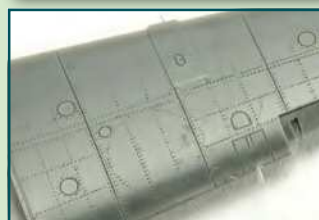
www.creativemodels.co.uk

SCALE: 1:72

MATERIALS: IM, WS, PE, RESIN
ITEM NO.2136

For a long time, Eduard have been known for their vast collection of beautifully detailed BF109 kits. With nearly every version being released in 1:48 scale and a couple of different 'E' variants being released in 1:32, modellers have been wondering if they would ever see a release of the BF109 in 1:72 with the details that are expected of Eduard. Now they have! This brand-new model, done in collaboration with Special Hobby sees a the BF109E come to form in this small scale. Though this model is small, don't let its size deceive you! The model features crisp panel lines and all the rivet details that we are used to seeing on 1:48 subjects. The modellers are also given the option to build the engine with the cowling on or off. This boxing includes two full kits, resin wheels and a resin pilot! The these for this 'Limited Edition' boxing is the Battle of Britain, all the markers are for those aircraft that were present during the Battle of Britain. Thirteen individual camouflage and marking options are available out of the box, so you are not short on choices. Photo-etch details are also provided to really spruce up the cockpit at this small scale. This has for a long time been a kit that the modelling community have been after, and this appears to be the perfect response to the community's question! **IJT**

-  Small parts count with amazing, recessed details
-  Tiny, delicate parts and patience required



REVELL, EUROPE FIESELER FI103 A/B (V-1)

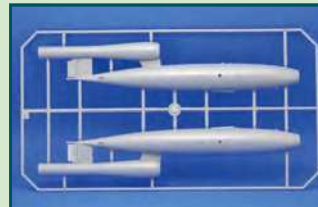
www.revell.de/en

SCALE: 1:32 • MATERIALS: IM, WS • ITEM NO.03861

The V-1 holds a special interest for me, because in London during the summer of 1944, my father, then ten years of age, would poke his head out of the front door to watch 'buzz-bombs' flying overhead, giving the nod to relatives indoors as to whether they would fall prey to the weapon, or not...

There have been numerous kits of this notorious pilotless 'Wunderwaffe' over the years, with Tamiya offering a kit in 1:48. Revell have licensed the sprues of Special Hobby's 1:32 replica from 2018 for this release and a mighty fine kit it looks too. The first thing that one notices is the size of it, the model being much larger than I had anticipated. It comes on three sprues of grey polystyrene plus a decal sheet that carries a pair of large 'X' markings plus data stencils for placement across the airframe. The kit comes with a wheeled trolley which makes the ideal display stand and it very well detailed too. The V-1 itself is also nicely detailed, with raised and recessed relief where appropriate and everything looks correct. The Argus pulse-jet, which gave the real missile its sinister and unmistakable buzzing sound is represented by a simple but well rendered intake grille at the front and open tube at the rear, pretty much like the real thing. The wings mount on a lateral spar (a simple pole) just like the real thing, allowing the model to be displayed with its wings stowed on the trolley, and a choice of three nose-cones is provided. Excellent! **MN**

-  A sinister but fascinating weapon and a very well detailed kit
-  Nothing untoward leaps out from an in-box look



New Releases

A selection of the latest full kits in plastic, resin, metal and more!



REVELL, EUROPE JAGUAR E-TYPE ROADSTER

www.revell.de/en

SCALE: 1:24 • MATERIALS: IM, CP, SVT, WS • ITEM NO.07687
Revell launched their new-tool 1:24 kit of the Jaguar E-Type Coupé in 2020 to much acclaim and we featured a detailed

article on the model in TMMI Issue No.312, October 2021. Now the Roadster version of the kit is out and it's another stunning rendition of this famous and much desired car. The kit, understandably, based on the Coupé with the chassis, engine, wheels all brought across from the 2020 release. The new mouldings include open and closed soft-tops plus door liners (individual grab-handles, chromed locks and window-winders) and are formed from a rather attractive caramel-coloured polystyrene with extremely convincing fabric folds in the hood parts. Revell did an excellent job of the E-Type's interior with the original model and now, with the top down, it can be seen in all its glory. Without building the model – this step is to come in TMMI – it is hard to say whether or not the open and closed tops can be fitted without glue. It would make sense to offer this on-and-off choice but moulding design might have precluded this: we shall see. As before, the kit comes complete with a gorgeous replica of the straight-six engine and thanks to an openable bonnet, it too can be observed once the kit is finished. Add to the package a very thorough chassis, suspension and set of believable wire wheels in chrome, and we have easily the best 1:24 replica of this icon yet released. **TMMI**

-  The outline is captured perfectly and the detail is fantastic
-  Little to find fault with here



ICM, UKRAINE OV-10A BRONCO US ATTACK AIRCRAFT

www.icm.com.ua

SCALE: 1:48 • MATERIALS: IM, WS • ITEM NO.48300

The North American Rockwell OV-10 Bronco is an American twin-turboprop light attack and observation aircraft. It was developed in the 1960s as a special aircraft for counter-insurgency (COIN) combat, and one of its primary missions was as a Forward Air Control (FAC) aircraft. The OV-10 served in the US Air Force, US Marine Corps, and US Navy. Eighty-one OV-10 Broncos were ultimately lost to all causes during the course of the Vietnam War. (Wikipedia). ICM are really pulling some terrific subjects from the hat these days with subjects such as the 1:32 AH-1G Cobra, 1:48 B-26K Counter-Invader and now, the Rockwell OV-10A Bronco. The latter is an especially significant release because it's the first model of the Bronco in 1:48 since the Testors model which was, like the real thing, launched during the Vietnam War! Considering is age, this old model is quite presentable, but ICM's modern release knocks it out of the park, as you'd expect. The production uses modern tooling technology to replicate such subtleties as recessed rivets on the main airframe exterior plus raised rivets on the tail-booms and the effect, while being a tiny bit exaggerated, still looks great and will come to life once painted, decalated and weathered. The cockpit, very visible through that vast, greenhouse canopy, is extremely well done, with just seat harnesses needing to be sourced by the modeller: Eduard will come to the rescue here. A fantastic subject and a highly impressive kit. What's not to love? **TMMI**

-  All-time classic subject, great detail, excellent cockpit as standard
-  Seat harnesses not supplied





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**1:200
SCALE**

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FULL-BUILD: WORLD WAR TWO AXIS AVIATION
EDUARD 1:48 FW190A-6 ● KIT NO.82148

NOCTURNAL PORCUPINE

Eduard's Fw190A-6/R11 night-fighter is ready for 'aerial' combat...
Jason Brewer describes the build and painting processes





FULL-BUILD: WORLD WAR TWO AXIS AVIATION

EDUARD 1:48 FW190A-6 ● KIT NO.82148

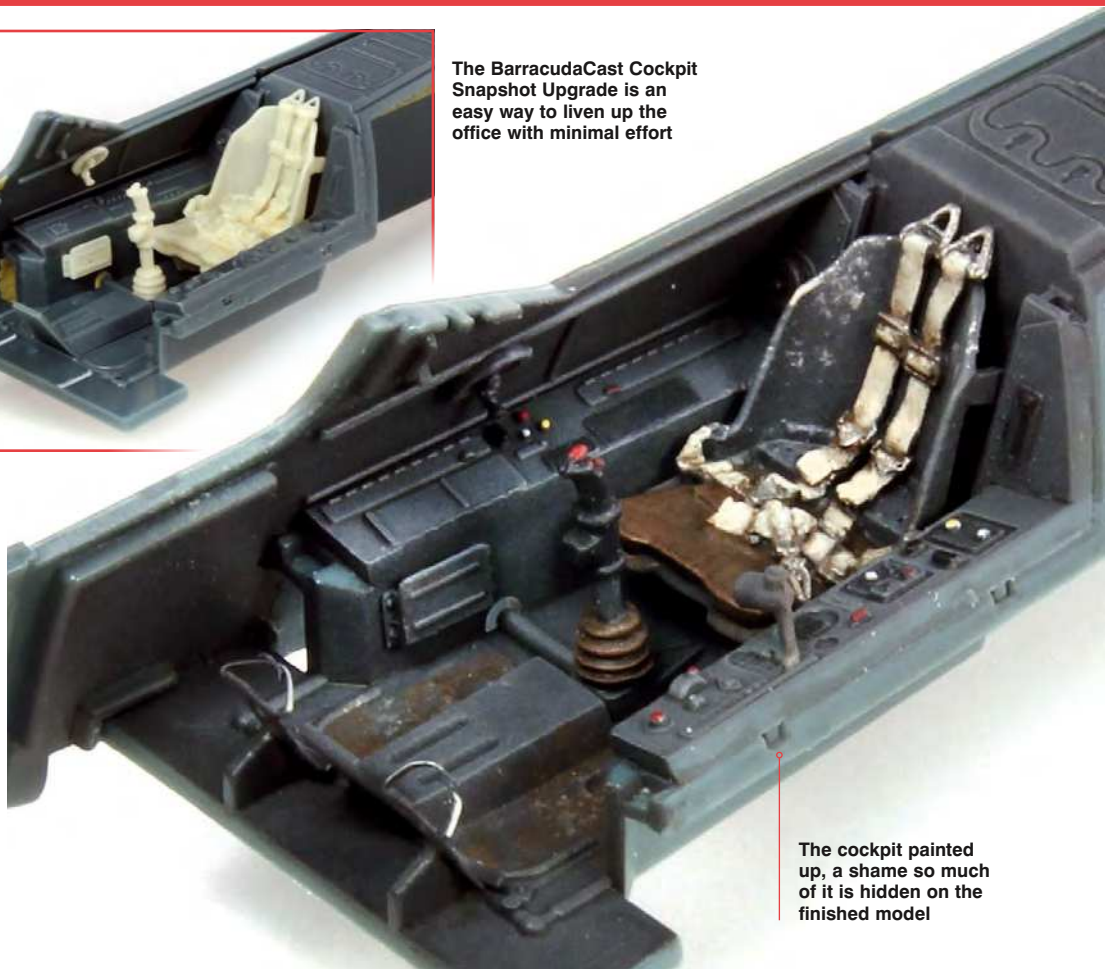
Lately I've been addicted to Eduard's families of '109s and '190s, and this time around I finally built one that has been on my to-do list for years: the Fw190A-6/R11. I've always been intrigued by the look of all the spiny night-fighter antennae. There aren't many of this variant to choose from, but during my research I came across a period photo of 'Red 21' and it went straight to the top of the list.

Once again I used BarracudaCast's Cockpit Snapshot Upgrade set to spice up the 'office'. I've not been impressed with Eduard's recent PE instrument panels, the quality seems to have gone down over the years, so I chose to use the kit plastic piece. The instruments were drilled out and individual decals placed in each hole, then Bondic glue was used to simulate glass. I also added the radar display from the Owl R11 set. Personally I'm pleased with the results. The cockpit was painted up with Tamiya acrylics, details picked out with Vallejo, and a few Aircscale placard decals added for extra interest.

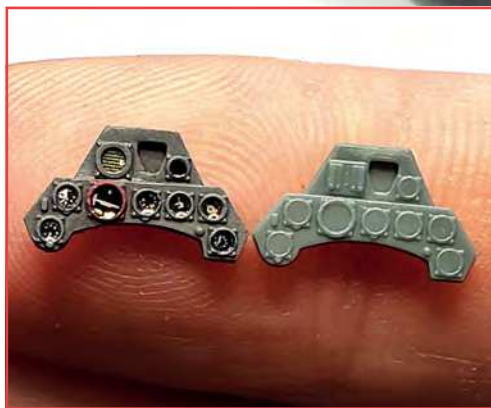
Assembly was as simple as expected from recent Eduard kits, with the only issue being a small gap between the lower wing and bottom of the rear fuselage filled with a plastic shim. I added BarracudaCast exhaust and wheels for some extra accuracy and detail and replaced the spinner/prop with one from Ultracast. The spinner was designed for the Hasegawa kit so some modification was necessary, but it was worth the effort. As with previous builds I chose to use a spare sliding canopy from Tamiya because it's more accurately shaped.



The BarracudaCast Cockpit Snapshot Upgrade is an easy way to liven up the office with minimal effort



The cockpit painted up, a shame so much of it is hidden on the finished model



The kit plastic instrument panel was rebuilt and the radar display was added



The office, just about ready to close up!

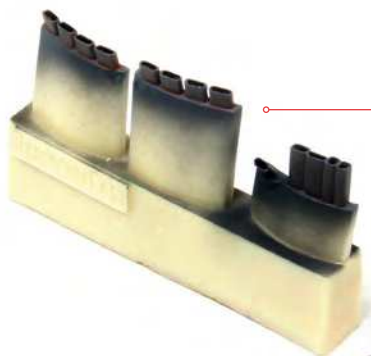
Mini Review...

EDUARD F-4B WHEELS (648682) FOR TAMIYA KIT

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

Tamiya's sublime new 1:48 F-4B Phantom II kit is already attracting aftermarket goodies, even though it is pretty much perfect straight from the box. Modellers always like to make their own tweaks though, and Eduard's new resin wheels/tyres for the kit feature extra sidewall detail plus flat spots to suggest the weight of the aircraft that rests on them. Top quality castings with masking set included.





BarracudaCast's exhausts are a nice upgrade, even if they are hard to see in the end



Ultracast's spinner required some modification to fit, but the extra accuracy and detail is noticeable



AK Real Colors were employed. Tonal variation was achieved with simple density control - no tricks before or after the main colour application



The overspray of RLM 76 over the camo was tested on a spare '109 fuselage



The main camo and crosses applied, I believe it looks the part



MOVING ON TO PAINT

AK Real Colors were used for this project, my go-to these days especially for RLM shades. These night-fighters had the camo lightly oversprayed with RLM 76 which I tested out on a spare Bf109 fuselage before committing paint to the '190. The major markings were sprayed using custom masks and decals from EagleCals were used for the remainder.

The tricky part were the Neptun antennae. I had originally planned to use the Owl set, but flat PE wasn't going to cut it for these clearly round elements. Eduard themselves also had some for this variant in an older boxing, but again in flat PE. In the end, I ended up using Albion Alloys 0.4mm tubing with 0.17mm guitar string for the antennae themselves, with punched circles from 0.010" Evergreen sheet styrene for the bases. This plane looked fairly clean in the period photo, so I limited myself to some minor scratching and chipping and subtle colour-washes with AMMO's 'PLW' line. Exhaust stains were sprayed using heavily thinned Tamiya acrylics.

Eduard's new tool Fw190 family is fantastic and I look forward to building many more. I certainly have plenty on my to-do list, and I'm stashing away many kits in the closet! ●

Glossed and decalled, time for washes and weathering



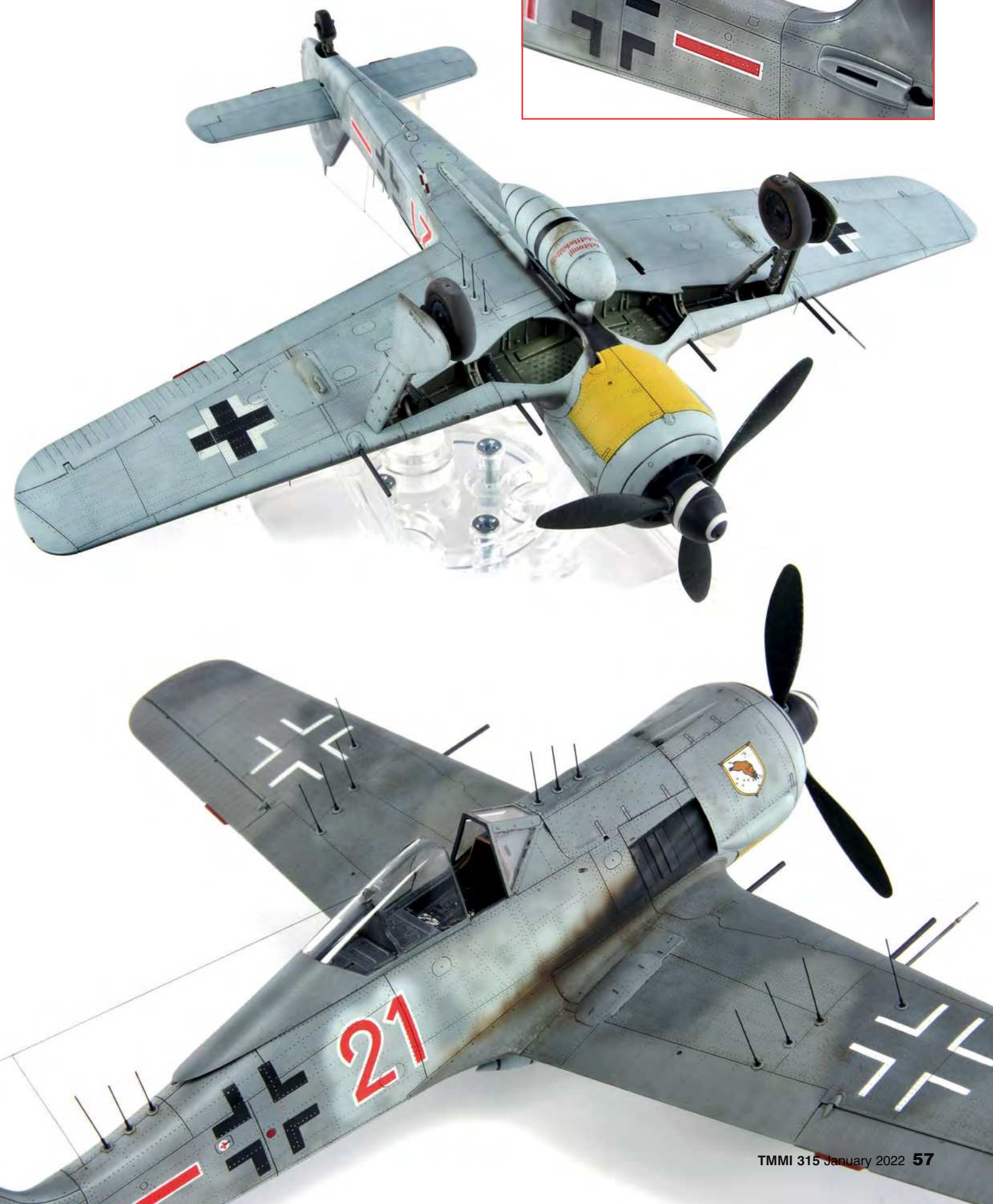
The exhaust stains were sprayed with heavily thinned Tamiya acrylics



Markings complete, sealed in AK Matte Varnish



The antennae were made using Evergreen styrene sheet, Albion Alloys tubing, and guitar string



FULL-BUILD: WORLD WAR TWO AXIS AVIATION

EDUARD 1:48 FW190A-6 ● KIT NO.82148

TECHSPEC...

EDUARD 1:48 FW190A-6 KIT NO.82148

Materials:

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

Paints used:

- AK Real Colors
- Tamiya
- Vallejo Model Color
- AMMO of Mig Jimenez PLW
- AK-Interactive Matte Varnish

You will need:

- Tamiya Extra Thin Cement
- Tamiya Masking Tape
- Sprue Cutters
- Tweezers
- Cyanoacrylate Glue
- AK Modelling Grey Putty
- Future floor polish
- AMMO Ultra Glue

Accessories used:

- BarracudaCast Cockpit Snapshot
- BarracudaCast exhaust
- BarracudaCast wheels
- Ultracast spinner/prop
- Master gun barrels
- Custom paint masks

Airbrush Used:

- Iwata HP-B Plus (www.airbrushes.com)

Availability:

Eduard models and accessories are widely available from good model shops and online. www.creativemodels.co.uk www.eduard.com

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





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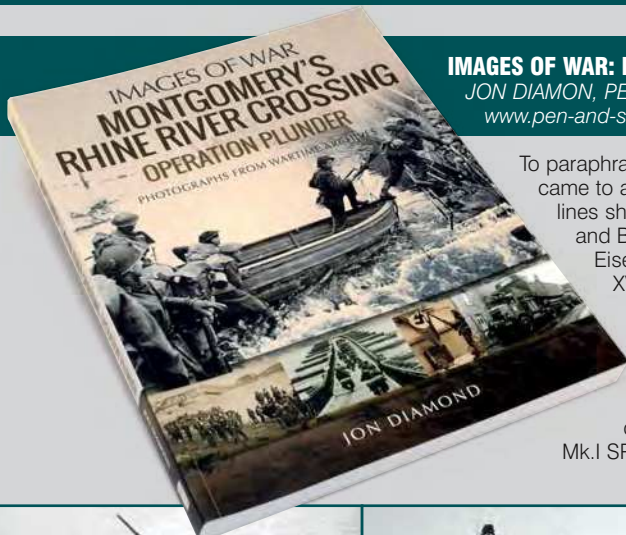


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Book Reviews

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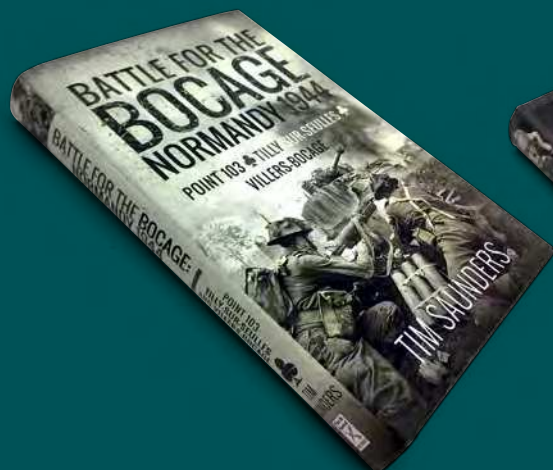
IMAGES OF WAR: MONTGOMERY'S RHINE RIVER CROSSING, OPERATION PLUNDER

JON DIAMOND, PEN & SWORD
www.pen-and-sword.co.uk

To paraphrase from the publisher's website: "After the Normandy break-out, the Allies' rush eastwards came to a halt in the autumn with the ill-fated 'Operation Market Garden' and over-extended supply lines short of the Rhineland. After repulsing the Nazis' daring Ardennes offensive, Montgomery's and Bradley's Army Groups cleared the Reichswald and Rhineland and closed on the Rhine.

Eisenhower's plan to cross the Rhine involved a vast airborne assault by General Ridgway's XV11 Airborne Corps (Operation Varsity) and the simultaneously coordinated river crossing by Monty's 21 Army Group (Operation Plunder) with Dempsey's British Second Army and General William H. Simpson's US Ninth Army."

For the scale modeller, this recent title is stuffed with engrossing wartime photographs, some familiar and some much less well known and there are modelling inspiration and diorama ideas on virtually every page. Particularly fascinating are the numerous images of British troops and armour, the latter including the then brand-new Comet I tank, Archer Mk.I SPG, Churchill 'Funnies' and Buffalos. A very engaging production at a bargain price. **TMMI**



BATTLE FOR THE BOCAGE, NORMANDY 1944 – POINT 103, TILLY-SUR-SEULLES, VILLERS-BOCAGE

TIM SAUNDERS, PEN & SWORD
www.pen-and-sword.co.uk

As the British forces moved away from the coast after D-Day, they were faced with a patchwork of small fields, high hedges, sunken roads and little villages, in an area known as the Bocage. Fighting in this region favoured the defenders, and the German forces were able to delay the breakout, while to the west the US forces faced somewhat easier terrain. This book is well-researched and concentrates on the actions of a few Allied units as they struggled to push the enemy out of the Bocage, while unable to bring the main British and Canadian tank units into action. Indeed, the disaster of Villers-Bocage was an example of where the Allied vehicles were unable to manoeuvre when confined to narrow streets and roads and were caught by Tiger tanks. This book is 350 pages of fascinating reading, with a good number of photos to illustrate the vehicles and weapons involved. There are occasional errors – for example calling the PIAT 'spring-propelled' – but in general the book is accurate and extremely informative throughout. A very readable description of the battles in mid-June 1944. **CLS**



GERMAN MILITARY AND THE WEIMAR REPUBLIC

KAREN SCHAEFER, PEN & SWORD
www.pen-and-sword.co.uk

Following the defeat of Germany at the end of WW1, and the restrictions placed on any rebuilding of the army, the country faced a difficult choice on how to move forward. While Ludendorff proposed a strong military able to take revenge for the defeat, general Seeckt proposed a professional military who could concentrate on defence and take a place in the community of nations. These contrasting visions played out in the difficult economic position of the 1930's, which saw the rise of Hitler and Nazism. This book explores the role of Hans von Seeckt (spelled Seek on the cover!) in a highly detailed and well researched study, showing how he influenced thinking at the time, before his death in 1936. Ultimately, the role of Hitler and his acolytes would eclipse all that went before, but this 250-page book is a fascinating look at what went on during the Weimar period. **CLS**



D-DAY COVER UP AT POINTE DU HOC, VOL.2

GARY STERNE, PEN & SWORD
www.pen-and-sword.co.uk

The action of the US Rangers during the D-Day landings is legendary – and this book explores the legend and debunks many of the previous ideas. A fascinating study, with infinite detail and meticulous exploration, which reveals that much that we thought we knew is plain wrong. The book begins with 200 pages looking at the final training in Slapton, before 100 pages covering the crossing and the main action, and then 50 pages on the week following. The remainder of the book is largely devoted to 300 pages of after-action reports and conclusions. While not wishing to detract in any way from the bravery of those involved, the events around Pointe du Hoc are very different from those reported at the time. This book literally rewrites history, based on detailed evidence and eye-witness testimony, rather than propaganda and here-say. **CLS**

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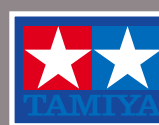


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(No.316), on sale 20th January



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Work on Tamiya's all-new 1:35
M18 Hellcat finally concludes: our
apologies for being an issue late...



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Airfix's all-new 1:72
AVRO Vulcan flies in



ELECTRIC MUSTANG

Tamiya's 1:24 Ford GT4 in Volt Lighting sponsorship

...AND MUCH MORE, OF COURSE!

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Scale Modelworld is back!

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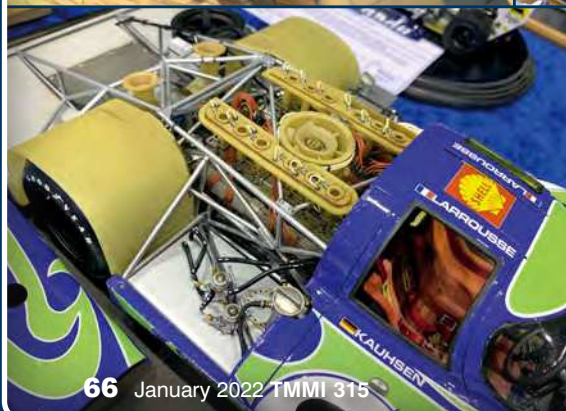
Here's a few images from the 2021 Scale Modelworld, Telford UK!

After being cancelled in 2020 due to the pandemic, it was wonderful to be at Scale Modelworld again, to see old friends, make some new ones and to check out the amazing models on the competition tables. The Tamiya Model Magazine stand had a famous

visitor in the form of Al Murray 'The Pub Landlord', a superb comedian and top-notch scale modeller too! Al is a terrific chap and he will hopefully be making an appearance in TMMI soon. We hope to bring you some more photos of the event soon. Here's to Scale Modelworld 2022! ●



Al Murray and Marcus Nicholls, TMMI's Editor



Team SUZUKI ECSTAR GSX-RR '20

1/12
SCALE



A Worthy Champion

1/12 Motorcycle Series

Team Suzuki ECSTAR GSX-RR '20 (Item 14139)

Suzuki - which celebrated the centenary of its establishment and the 60-year anniversary of motorcycle racing activity - entered two bikes in the 2020 season of the prestigious MotoGP series. Bearing the name of Suzuki's own engine oil brand ECSTAR, the GSX-RR equipped with a water-cooled 4-stroke inline-4 engine has kept evolving since its debut in 2015. For 2020, the color scheme was changed to a blue and silver color one inspired by their 1960s GP racers of yore. Thanks to both riders, Joan Mir and Alex Rins, the GSX-RR took Rider and Team championships in MotoGP, a splendid feat for Team Suzuki in this momentous year. Now, this motorcycle joins the Tamiya 1/12 Motorcycle Series. The model authentically depicts the aerodynamic form with a 1,000cc inline-4 engine in style. Check out the splendid mechanism with your own eyes.



Screw-attached cowls can be removed after assembly. Internal air box and fuel tank are separate parts, and the exhaust accurately recreates the honeycomb mesh in its openings.



The front cowl winglets are the latest MotoGP trend. Individual buttons and levers on the handles are also captured, while the display is depicted by a decal.



Contains black stickers to recreate tank cover grip pad for Alex Rins.

Includes masking stickers for painting demarcation.

Length: 178mm
Width: 62mm
Height: 100mm

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



Tank cover grip pads for Joan Mir are clear parts.

Features a realistic rendering of the GSX-RR's distinctive lower fender which allows air to flow onto and cool the rear tire.

Dedicated plastic and metal parts for a fantastic finish

Detail-Up Parts Series

1/12 Scale Suzuki GSX-RR '20
Front Fork Set (Item 12691)



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