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**Model MAGAZINE**  
INTERNATIONAL

**ISSUE 323**  
September 2022  
£5.25



# Model MAGAZINE INTERNATIONAL



**THE FREE MEN  
OF THE WORLD  
ARE MARCHING  
TOGETHER TO  
VICTORY!**

Tamiya's all-new 1:35 US GI, painted by none other than Calvin Tan



**PISTA  
RÉSITANCE**

Alpha Models 1:24  
Ferrari 488 Pista in detail

**INSIDE**

Tamiya 1:48 Sturmtiger, Revell/ICM 1:48 Dornier Do215B-5, Eduard 1:48 Spitfire Vb X2, plus new kits, books and modelling accessories...

Doolittle MEDIA



# LOCKHEED® P-38J LIGHTNING®



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**1/48**  
SCALE

## Ace Maker

### 1/48 Aircraft Series Lockheed® P-38® J Lightning® (Item 61123)

The Lockheed Martin Corporation attained fame as an aircraft manufacturer whose design philosophy has been to develop aircraft focused on speed. Among their innovative work, the legendary Lockheed P-38 Lightning is known as their first single-seat aircraft. Clarence Johnson, later the first boss of Lockheed Martin's Advanced Development Programs, alias Skunk Works, developed this unique aircraft which enjoyed speed, heavy armament, and long-range ability. Roughly 10,000 P-38 aircraft were produced during WWII, and made a lot of ace pilots. Now, Tamiya welcomes the P-38J – which was equipped with improved intercoolers under engines and evolved into a powerful style - into the legendary 1/48 Aircraft Series! With an ergonomic parts breakdown inherited from our previously-released P-38F/G, the dynamic style is authentically captured. This kit realistically depicts detailed sections such as updated cockpit, main landing gear, turbocharger air intakes and more. Enjoy assembling this kit of a Lockheed aircraft, a company which still leads the world with the fifth generation fighter F-35.

★Realistically depicts P-38J features such as reshaped wing leading edge for fuel tanks, flat first canopy glass, and more. ★The spar part is combined with the nose landing gear bay, and ensures an accurate dihedral angle. ★Contains parts to depict two each of 150- and 300-gallon drop tanks. ★One seated pilot figure is included.

●Length: 240mm, wingspan: 330mm.



Larger engine cowlings have realistic depictions of ducts connecting the intercoolers.



Updated turbocharger shapes are accurately recreated.



The elegant lines of the larger radiator fairings are faithfully depicted.



A detailed cockpit features the Lynn-3 gunsight, distinctive control wheel and radio.

★One of the marking options recreates ace Richard I. Bong's aircraft with distinctive nose art.

★Comes with three marking options and masking stickers, plus a full-color, 1/48 scale painting guide.



5th Fighter Command, 5th AF, Capt. Richard Ira Bong



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P-38 Lightning®  
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THE NATIONAL MUSEUM OF WORLD WAR II AVIATION  
COLORADO SPRINGS  
Developed with support from Richard I. Bong Veterans Historical Center and Plaza of Fame Air Museum.

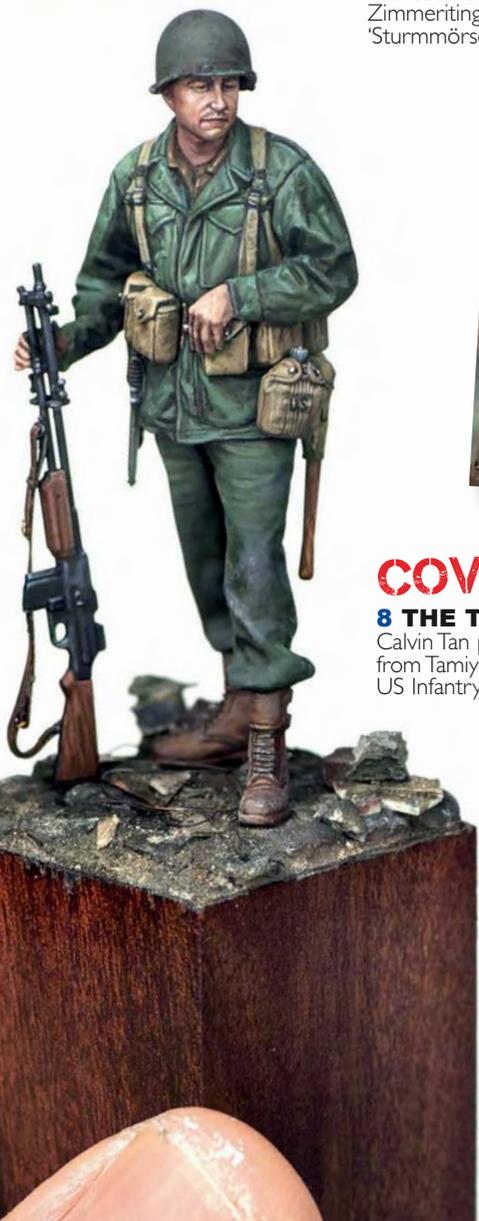


★Images show assembled and painted kit. ★Product may vary from images shown.



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Calvin Tan paints the BAR gunner from Tamiya's stunning new 1:35 US Infantry Scout Set



# Model MAGAZINE INTERNATIONAL

Issue 323 September 2022

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## IN BRIEF...



### TAMIYA

- XV-02/TT-02 Ball Differential Set (39T)
- 1:12 RC Volkswagen Golf Mk.1 Racing Group 2 (M-05)
- 1:10 RC Tyrrell P34 Six Wheeler 1977 Argentine GP
- 1:10 Scale RC au TOMI's GR Supra Body Parts Set
- 1:10 Scale RC Ford Bronco 2021 Body Parts Set
- 1:10 Scale RC Alpine A110 Jagermeister 1973 Body Parts Set
- 1:12 RC Toyota Land Cruiser 40 Pick-Up Quadtrack (GF-01FT)
- 1:10 McLaren Senna (TT-02)
- 1:10 RC 4WD Mitsubishi Lancer Evolution 4X (TT-02)
- 1:35 RC US Medium Tank M4A3 Sherman (w/Control Unit)
- 1:32 Mini 4WD 40th Anniversary Super Hard Low-Profile Tire & Wheel Set (12-Spoke)
- 1:32 Mini 4WD 40th Anniversary HG Carbon Stay for Wide Front Sliding Damper (2mm)
- 1:32 Mini 4WD 40th Anniversary HG Carbon Stay for Wide Rear Sliding Damper (2mm)
- Modeler's Side Cutter (Rose Pink)
- Rubber Band Powered Trike

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

### AFV CLUB

- 1:35 AAWS-M FGM-148 Javelin

[bachmann.co.uk](http://bachmann.co.uk)



### EDUARD

- 1:48 Red Tails & Co Dual Combo (P-51D Mustang)
- 1:48 BF109G-10 Eria ProfiPACK
- 1:48 AGM2 Zero Type 11 ProfiPACK

[creativemodels.co.uk](http://creativemodels.co.uk) [eduard.com](http://eduard.com)

### HOBBY DESIGN

- 1:20 RB16B F1 car

[hiroboy.com](http://hiroboy.com)

### ICM

- 1:16 Squid Game O figure
- 1:32 DH.82A Tiger Moth with bombs
- 1:35 WWI German Infantry in armour
- 1:48 Desert Storm OV-10A and OV-10D+ 1991

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

### KINETIC

- 1:48 F-16C Viper USAF markings for Block 25/42
- 1:72 C-17 Globemaster III

[luckymodel.com](http://luckymodel.com)

### REVELL

- 3DP Time Machine 'Back to the Future' puzzle
- 1:72 Eurofighter Typhoon Bavarian Tiger 2021
- 1:144 03825 CH-47D Chinook C

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

### TRUMPETER

- 1:48 Mi-4 Hound
- 1:35 Trumpeter Kamov Ka-29 Helix

[bachmann.co.uk](http://bachmann.co.uk)

### WOLFPACK

- 1:48 T-38A Talon 'USAF'
- 1:48 T-38A Talon 'NASA'
- 1:48 T-38A Talon 'ROKAF'
- 1:48 T-38A Talon 'Holloman AFB' (Premium Edition Kit)
- 1:48 T-38C Talon 'USAF'
- 1:48 AT-38B Talon 'LIFT' (Premium Edition Kit)
- 1:48 T-38A Talon 'ROCAF'
- 1:48 T-38A Talon 'The White Rocket'

[wolffpack-d.com](http://wolffpack-d.com)

## NEW FROM TAMIYA 1:35 Comet Tank update

We announced Tamiya's latest kit to join the 1:35 Military Miniatures Series - the WW2 British Comet tank - last month and here is the first factory photo of the finished model! Full-build feature coming very soon...  
[www.hobbyco.net](http://www.hobbyco.net)



## COMING SOON FROM TAMIYA 1:24 Nissan Z 2023

Nissan's newest sports coupe is the 'Z' and is sadly not being officially imported into the UK, but you can always get Tamiya's all-new kit instead!  
[www.hobbyco.net](http://www.hobbyco.net)



## COMING SOON FROM AFV CLUB 1:35 Centurion AVRE

The latest iteration of AFV Club's superb 1:35 Centurion is the 'AVRE', or Armoured Vehicle, Royal Engineers. Expect masses of detail! [www.bachmann.co.uk](http://www.bachmann.co.uk)



## NEW FROM AIRFIX 1:48 Blackburn Buccaneer

Airfix Senior Designer Paramjit Sembhi had great fun displaying the first built up example of the new tool 1:48 Buccaneer at The Royal International Air Tattoo back in July! More info soon on this new model.  
[www.airfix.com](http://www.airfix.com)



## NEW FROM REVELL 1:72 PT Boat PT-160

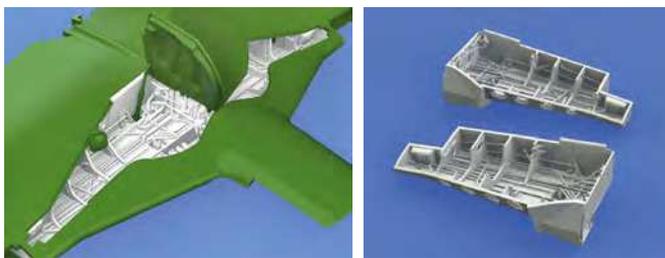
Some WWII PT crews customised their boats, decorating them with outrageous 'nose art' typical of bombers and fighter aircraft of the era and Revell's kit will come with decals for them.  
[www.revell.de/en](http://www.revell.de/en)





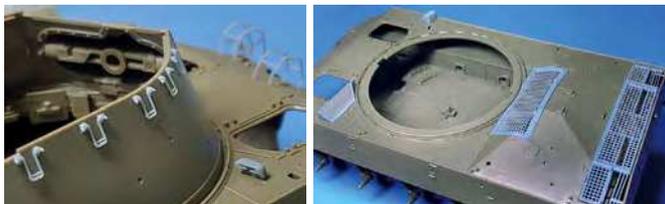
**ON THE WAY FROM KINETIC**  
**1:35 US Law Enforcement Carrier**

The International MaxxPro MRAP can now be seen roaming the streets of the USA on police duty and it looks even more intimidating in overall matt black! Expect a highly detailed production.  
[www.luckymodel.com](http://www.luckymodel.com)



**COMING SOON FROM EDUARD - 1:48 P-51D UC bay 3D-print**

This impressive-looking 3D-printed set provides surely the most detailed main undercarriage bay yet seen for a P-51D Mustang in 1:48. More details soon. [www.creativemodels.co.uk](http://www.creativemodels.co.uk) [www.eduard.com](http://www.eduard.com)



**COMING SOON FROM FAT FROG**  
**1:35 M18 Hellcat detail sets**

Tamiya's superb 1:35 M18 Hellcat kit can be upgraded with a set of new, 3D-printed headlight guards, turret hangers and engine-deck grilles thanks to Fat Frog.  
[www.hobbyeasy.com](http://www.hobbyeasy.com)



**COMING SOON FROM EDUARD**  
**1:48 F4F-3 Wildcat**

Eduard's new-tool Wildcat was officially unveiled at the US IPMS show back in July and TMMI will have the model soon. Full-build feature on the way!  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)  
[www.eduard.com](http://www.eduard.com)



**NEW FROM EDUARD**  
**New aircraft kits**

New and back from Eduard are the 1:72 Fw190A-8 'standard wings' (Weekend Edition), 1:48 Albatros D.V ProfiPACK and 1:48 Z-526AFS Akrobat.  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)  
[www.eduard.com](http://www.eduard.com)

**COMING SOON FROM EDUARD**

- 1:48 LööK A-1H Skyraider for Tamiya
  - 1:48 LööK Beaufighter Mk.VI for Tamiya
  - 1:48 LööK Su-25 Frogfoot for Zvezda
  - 1:48 F-15E/I/K wheels Great Wall Hobby
  - 1:48 Beaufighter Mk.X wheels for Tamiya
  - 1:48 Print Beaufighter exhausts for Tamiya
  - 1:48 Print A6M2 engine complete for Eduard
- [www.creativemodels.co.uk](http://www.creativemodels.co.uk) • [www.eduard.com](http://www.eduard.com)



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# SUPERLIGHT SUPERBIKE!

Restricted to just 500 bikes, the new Superleggera V4 is the most exclusive Ducati ever produced. The price tag is pretty exclusive too, at £90,000... Can't run to one? Tamiya have just the answer, albeit 1:12 the size of the real deal...

**T**he Superleggera V4 is a road-legal version of the Panigale V4, produced by the legendary Italian motorcycle manufacturer, Ducati. The bike's key asset is its lightness, made possible by the extensive use of carbon-fibre throughout its construction, featuring in the fairings, chassis and swing arm. The composite material even features in the distinctive 'biplane' aerodynamic wings on either side of the front cowling. The engine is the potent Desmosedici Stradale R, a 998cc V4 powerplant using Ducati's Desmodromic valve timing system. This motorcycle also uses Öhlins suspension and Brembo brake system, in addition to an Akrapovič titanium muffler.

## TAMIYA'S KIT

If you are familiar with Tamiya's 1:12 Motorcycle Series kits, you will feel at home here. Tamiya's designers have honed their art of producing these exquisite models to the point of it becoming an art form; the detail is just right, the parts-count is unimposing whilst maintaining a satisfying level of complexity. And you just know the fit of parts will be as close to perfect as it is possible to be.

The only real surprise –

and it's a nice one – is the two-part chain, which is split into two sides, offering significantly improved realism over one-piece mouldings. The drive-gears are moulded into one of the halves, eliminating gaps which would impact on the convincing effect.

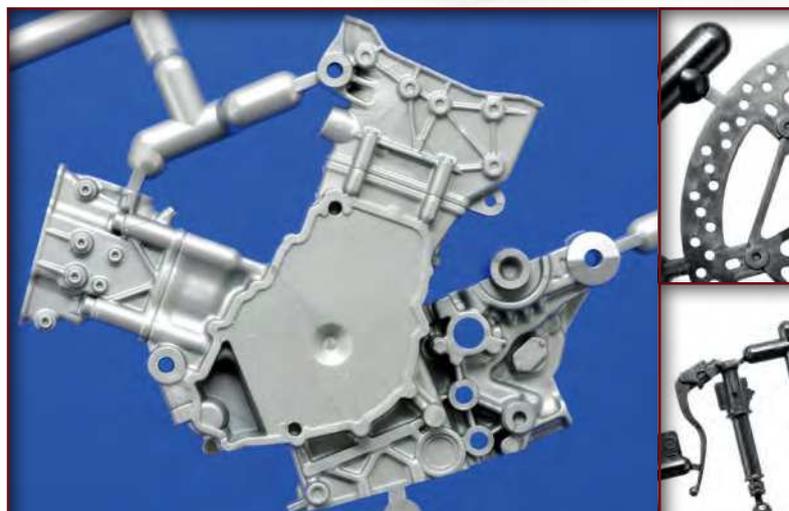
Otherwise, the bike assembles up in the manner we have come to love and expect. It will become an instant classic! ●

## TECHSPEC...

- Length: 176mm (including a racing stand: 198mm)
- Height: 98mm
- The distinctive, complex front cowl biplane wings are authentically recreated
- The V4 engine, swing arm, front fork, side cowlings and fuel tank are attached to frame by screws
- Side cowlings and fuel tank are removable after assembly
- Chain parts are split into right and left to accurately recreate roller sections
- Front and rear brake rotors have depictions of holes
- Includes metal transfers to render mirrors realistically
- Decals authentically depict subtle red gradation patterns and carbon fibre material of side cowlings
- Synthetic rubber tyres feature tread patterns, and Pirelli logos which can be recreated by decals

## Availability:

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





**FULL-BUILD: WORLD WAR TWO ALLIED FIGURES**  
**TAMIYA 1:35 MILITARY MINIATURES US INFANTRY SCOUT SET ● KIT NO.35379**



# THE TIDE HAS TURNED! THE FREE MEN OF THE WORLD ARE MARCHING TOGETHER TO VICTORY!

General Dwight D. Eisenhower, 1944

Recognised internationally as one of the best figure painters (and creators) worldwide, **Calvin Tan** talks us through the painting process of the BAR gunner figure from Tamiya's fantastic new 1:35 US Infantry Scout Set

Following Tamiya's release of the 1:35 German Wehrmacht Infantry (mid-WW2) set back in 2020, there was speculation that they might follow through with an Allied subject. True enough at the Shizuoka Show in May 2022, it was revealed that Tamiya was due to release the WW2 US Infantry Scout Set in July 2022. I was fortunate enough to receive a sample of this kit and went about building the BAR gunner. The engineering of the parts are what we have come to expect from Tamiya; minimal clean-up and perfect fittings. However due to the limitations of injection moulding, the shoelaces are not very well reproduced and thus I went about to scrap them off and remodel them with some finely rolled strings of black coloured Milliput.

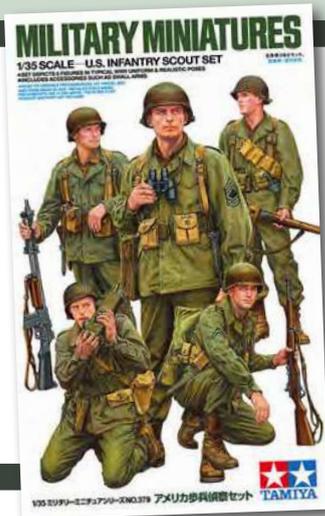
I employed two types of acrylic paint from AK Interactive were for the painting; the AK Gen 3 acrylics for vibrancy and Abteilung 502 acrylics for the matt finish and heavy body. I began by undercoating the figure with Mr Colour Super Flat Clear directly from the spray can. This serves as a foundation for the paint to adhere. ▶

Extreme close-ups of the parts shows the incredible detail incorporated in this new set's mouldings



# FULL-BUILD: WORLD WAR TWO ALLIED FIGURES

## TAMIYA 1:35 MILITARY MINIATURES US INFANTRY SCOUT SET ● KIT NO.35379



Above: Tamiya's factory photos show the lifelike poses of the five figures and the convincing folds in their uniforms

◀ Moments after the undercoat has dried, I applied a light wash of Grim Brown throughout the figure to locate the darker regions of the figure. Commencing with the face, I gently applied a thin glaze of AK 11401 Base Flesh across the surface with AK 840-4 Filbert Brush 4. I need to mention that the consistency of the paint on the brush as this point is moist. This can be

achieved by unloading all excess paint from the brush onto a napkin before applying it to the model's surface.

The highlights are painted with AK 11402 Light Flesh and the shadows with AK 11405 Dark Shadow Flesh. I also added a touch of AK 11189 Dark Prussian Blue to AK 11401 Base Flesh and lightly washed it over the Base Flesh areas as I felt that the tone

was a tad too warm to depict the cold climate of the early spring season.

For the uniform, I created an Olive Drab tone by mixing Abteilung 502, ABT 1136 Phthalo Green and ABT 1114 Dark Earth in varying proportions in accordance to my preferences.

For instance if I wanted a more 'soiled' appearance, I incorporated more Dark Earth; vice versa for a green and





Above right: the set comes with a sheet of waterslide decals for uniform insignia

'fresher' look. Highlights were created by mixing AK11424 Grey Green or AK11151 Brownish Green to the Olive Drab mixture whereas shadows were created with thin washes of AK 11027 Rubber Black.

The webbing was painted with AK 11436 Canvas Tone, highlighted with a mixture of AK 11436 Canvas Tone and AK 11936 Ice Yellow. Shading was

done with washes of AK 11344 Field Drab and AK 11027 Rubber Black.

The boots were painted with AK 11419 Waffen Red Brown and highlighted with AK 11104 Saddle Brown and shaded with ABT 1114 Dark Earth. The groundwork is modelled from acrylic modelling paste coloured with AK 11112 Grim Brown and AK11029 Black. Whilst the paste

is still wet, fine sand was sprinkled over to allow the paste to fix and colour the sand at the same time.

Loose pieces were later fixed on with some Matt varnish from AK Interactive. In all this figure has met all the high standards I have now expect from all Tamiya figures and I look forward to painting the rest of the figures from this wonderful set. ●



**FULL-BUILD: WORLD WAR TWO ALLIED FIGURES**  
**TAMIYA 1:35 MILITARY MINIATURES US INFANTRY SCOUT SET ● KIT NO.35379**



A close-up affords us a look at the figure's webbing and storage pouches, all standard kit parts with no modification



The standard entrenching tool is beautifully moulded and just needs imaginative painting



The M1918 Browning Automatic Rifle, or 'BAR' for short, is extremely well detailed in Tamiya's figure set



The M1943 US Army 'Double-Buckle' boots are beautifully rendered; the author just adding laces from rolled putty

**“In company with our brave Allies and brothers-in-arms on other fronts, you will bring about the destruction of the German war machine... the elimination of Nazi tyranny,”**

*Dwight D. Eisenhower*



**FULL-BUILD: WORLD WAR TWO ALLIED FIGURES**  
**TAMIYA 1:35 MILITARY MINIATURES US INFANTRY SCOUT SET ● KIT NO.35379**



Four GIs at a crossroads decipher German military signposts. The men wear mesh-covered helmets and carry both the M1 Carbine and M1 Garand rifles

*Photo: Conseil Régional de Basse-Normandie/ National Archives USA, public domain*



Here we see a group of African-American NCOs from the 374th Engineer General Service Regiment posing time for a photograph with a collection of interesting German hardware. Numerous interesting uniform details can be observed here

*Photo: Archives Normandie*



A group of American soldiers from the 2nd Armored Division examine a German MP40 submachine. The GI on the right has an M1 Carbine slung over his shoulder. Note the significant differences in height of the trio!

*Photo: US Archives. Public Domain*



These two images were taken at Cherbourg on the 29th and 30th June 1944 surrender of Fort de l'Ouest. We can see the M1 Garand bayonet, canteen and ammunition pouches. Note the soldier in the foreground's trouser leg has become untucked from his gaiter

*Photo: US Army Pictorial Service, public domain*



Here we see a wrecked Sd.Kfz.251 Ausf.D halftrack being inspected by a US GI. The soldier is carrying an M1 Garand which is fitted with an M7 launcher grenade and an M9A1 HEAT anti-tank type grenade

*Photo: US Army Pictorial Service, public domain*



This evocative image shows American soldiers advancing steadily but cautiously through the near-impenetrable Normandy 'bocage'. The net-covered helmet, webbing and M1 Garand are clear to see

*Photo: The Rodger Hamilton Collection, public domain*



The M1 Carbine (United States Carbine, Calibre .30, M1) is a lightweight, semi-automatic carbine that was a standard firearm for the US military during World War II

*Photo: public domain*



The M1 Garand is a semi-automatic rifle that was the United States service rifle during World War II and is named after its Canadian-American designer, John Garand

*Photo: public domain*



Tamiya's 1:35 BAR gunner even features on the cover of a 'Yank' magazine from 1944...



To keep things in perspective, it's good to remind ourselves how relatively small a 1:35 figure really is!

### TECHSPEC...

TAMIYA 1:35 MILITARY MINIATURES US INFANTRY SCOUT SET NO.35379

Materials:  
Injection-moulded polystyrene, waterslide decals

Paints used:  
Listed in main text

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



**Build Your Dream!**

LEVEL 5



03820 Eurofighter Typhoon "Black Jack", 1:48

LEVEL 4



03818 Eurofighter Typhoon "Bavarian" Tiger, 1:72  
Florian Szczepek © 2021  
Design by Alexander Hamm

LEVEL 5



03829 Messerschmitt Bf-109 G2/4, 1:32  
**NEW PARTS**

**REVELL ACCESSORIES**

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



Available from all good model stockists and online from



[hobbycraft.co.uk/brand/revell](http://hobbycraft.co.uk/brand/revell)



# DETAILING A DORNIER

Revell's 1:48 Dornier Do215B-5 gets the superdetail treatment, courtesy of **Chuck Wojtkiewicz**



As the menacing shadow of the Third Reich slid across the face of Europe, strange lights flared and flickered in the furious forges of its war machine. By 1940, the weapon-smiths of Dornier focused on the development of new night fighter variants of their now outdated Do17/Do215 bombers. First the Spanner Anlage infra-red searchlight and detector were tried and found wanting. FuG202 radar mounted on the Do215 B-5 Kauz III showed greater promise and pointed the way to future developments and tactics for the war raging in the night skies.

About twenty or so B-5s were converted to the role, enjoying modest success against night-raiding Allied bombers. It was the sleekest of the line, with its elegant inline engine nacelles and metal gun nose capped by the cyclopean glass eye of the Spanner searchlight housing. The only thing spoiling its trim and stylish lines was the bristling array of radar antennae; a part of this build that was a thorn in my side to the very end. How did I prevail? Have patience, Watson, all will be revealed!

## ICM'S 1:48 DO215 B-5

This was a somewhat surprising but most welcome rendition of this rare bird and Revell's boxing brings it to a wider audience. The Revell version includes the ventral gun pod and exhaust flame-hiders initially omitted (and later included) by ICM. Indeed, by my gauge the plastic in both boxes is identical, with Revell producing its own instruction booklet and decals, albeit for the same schemes as in the ICM version.

I was delighted to begin the build and dived into research as is my usual plan of attack. I research every part of a kit as I build, looking to verify its shape, learn about its functions, and how to improve it if possible. As the search for information plumbed into the deepest basements of the internet, and with multiple additions to my already-groaning bookshelves, I took my RB Productions Rivet-R to the smooth surfaces of the kit. Kagero's excellent drawings in Do17/Do215 (Volume #39) were my guide. These drawings are very good, but not perfect, as I learned to my chagrin. I will enlighten as we progress. ▶

❶ **AFTERMARKET?**

Being the brass-obsessed fellow I am, I added the Eduard Big Ed set. Quickboost resin was also added, as well as some vintage Verlinden and True Details items. A quick glance at the kit cockpit as supplied reveals it to be basic at best. Featureless sidewalls, a yawning, open chasm in the gun-nose area and critically under-detailed components are a disappointment. The Spartan, basket-weave crew seats are a bit under-scale, while the pilot's seat is 1:72 at best. I'll wager that the CAD files used to create these kits had a file out of place in the case of this part. All I kept were the radio boxes, control column and yoke, the trim wheel, the body of the repeater compass and a few tidbits.

New crew seats were soldered up from brass wire and Albion Alloys Micro-Tubing, with woven backs and bottoms from lead foil. The pilot's position was an epic bit of research and fabrication. The seat itself was vacuum-formed over a modified cast of the corresponding part from the Monogram ProModeler Do217 kit. I detailed this hard-won sub-assembly with fine styrene rod and sheet, and fitted it with a nice, comfy cushion sculpted from Milliput.

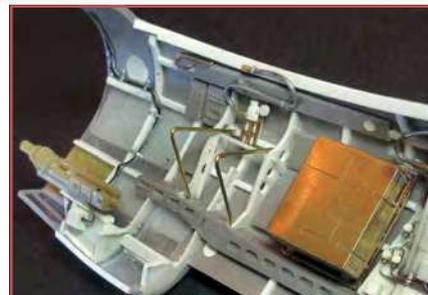
Its adjustable base, similar to that in the Ju88, was painstakingly fashioned from tiny bits of styrene, brass wire and tube. All of this glory sits on an open framework of rails and tubing that I did my best to simulate with styrene stock. There is a modest floor on which the pilot may shift his weight, but his feet remained in the rudder pedals, excellently depicted in fine brass by Eduard. I'll let the photos speak for the complex arrangement of the pedals themselves. The crew seats were left off until final assembly, and I mustn't forget to mention that HGW's incredible seatbelts added the perfect final touch.

The gunner/radio operator/radar operator's position (busy fella!) was also extensively reworked. Battery boxes, enlarged circuit breaker panels, delicate oxygen control valves, cranks, a box for spent ammo, the autopilot actuator and its protective cover, control rod shroud and more were built up bit by bit. It's the fun part for me; figuring out the what, why and wherefore of all this 1930s gadgetry keeps the love of the hobby alive for my weary old soul. A generous sprinkle of fine 'etch from Eduard is the icing on this tiny cake. Note that I've placed the brass radar sets where the spare camera equipment sat in the recce version, not up in the canopy as Eduard indicates. Photos back me up here.



Major updating at the pilot's station; the mount for the seat, rudder pedals and compass was built 'in the air' from styrene stock. The control stick, compass and trim wheel are the only kit parts used there. Zounds!

A close-up shot of the O2 controls; fine wire stripped from an old cable, punched disks, Albion Alloys micro-tubing plus patience, blessed patience! The silver cable brackets are self-adhesive heavy aluminium HVAC tape



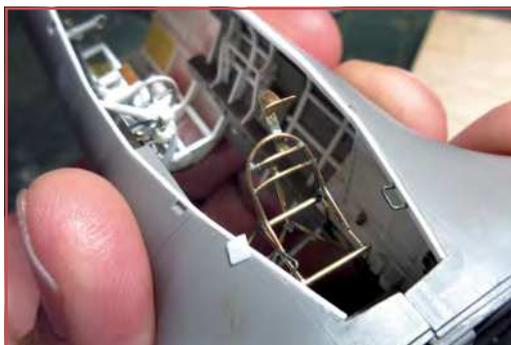
Over at the observer's station I've added fuselage framing, the great honking MG151 (Verlinden) O2 regulator and sundry bits and bobs. The bulky radar power unit (Eduard etch) is where a camera goes on the recce types. The O2 controls are to the right



The port radioman's station was also largely rebuilt. The cockpit was incredibly cramped and crowded. I built up the contents in layers; new fuse panel, document pouch and such. Brass was soldered when possible for strength



The rear panel was evidently open to the bomb bay; draughty! Empty cartridge case box and central rear panel, replete with doppletrommel holders, battery boxes, emergency landing gear manual crank and the auto pilot motor (an ancient model railroad brake part). Never throw anything away and use the best you've saved!



A test fit of the radio operator/gunner's seat, illustrating the tight quarters. The seat back has an exaggerated tilt, to accommodate the mushroom-shaped parachute backs worn into combat. The kit seat was undersized, in my humble opinion, plus, I love soldering brass



The completed seat, with woven lead foil webbing and seat back. The whole arrangement tilted back and froth on those long legs to fit the crewman and allow access to the radios and radar

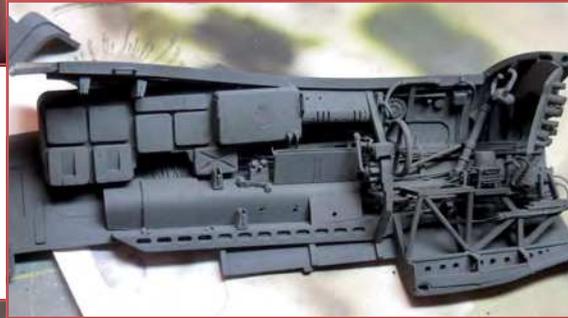


Whew, that's a lot of fun scratch-work! The observer's seat has a Milliput cushion on the back that provided some comfort when folded. The pilot sat there at start-up, priming the engines before the other crewmen entered the ship



Ready for paint, let the fun begin! Note the pilot's seat and its adjustable frame, a model in itself

The first coat of Tamiya XF-24 Dark Grey, with some shading of XF-69 NATO Black. It's always so satisfying to get a fresh look; what was chaos, coming into sharp focus. In the centre of the pic you'll see the back-up engine primer with its twin button-plungers, plus the hand crank for the emergency bomb bay door controls



Eduard colour 'etch brings things to life, and the whole is blended with washes, oil paint dry brushing and colour modulation and 'Spanish school' highlights. Don't forget some chipping and spatter



The port side, all gussied up. Imagine that cannon blasting away right under your nose. The ammo box, chute and wiring were a bit challenging, but do-able. The HGW seat belts are the best in the business for my money!



Streng geheim! The radar scope and its visor; the Eduard 'etch takes a bit of oil paint drybrushing beautifully. Well, that sweet blue O2 piping kinda makes up for it



The tiny (1:72?) kit seat gave way to one made using a modified Milliput cast of the front cavity of Monogram's Do215 kit seat, vacuum-formed and extensively detailed. The adjustment mechanism at its base is quite similar to the Ju88's version. All hail HGW belts!



Eduard masks again save the day. The greenhouse interior sprouts the DF loop motor and its control unit, radio mast base, the rear defensive gun and spare ammo drums for the MG FF cannons in their Rustsatz belly pack



Yes, it was all worth it! That big, beautiful canopy fits like a pair of Speedos and shows off all the hard work within

## ON TO THE WEAPONRY!

The observer was lucky enough to have the massive MG151 cannon right at his feet and its belt fed ammo box under his folding combat lawn chair. Verlinden provided the gun and I added the rest, again to my best educated guess. The nose area was partitioned off by a simplified styrene rendition of the armoured plate with a hole carefully located to accept the brass barrel of the gun. On the reverse of this partition I crafted a carefully placed and detailed tube to fill the void seen through the nose lens. R4 + DC, the subject of my build, had the all the Spanner equipment deleted, so the tube is simply sealed up with a styrene disc.

I'll take a moment here to discuss a widely-circulated period photo purporting to be the forward cockpit area of this aircraft. After careful and exhaustive study I reject that assertion entirely and firmly believe that photo to be of the gun-nosed Do217 variant. That aside, it is in this quarter of the cockpit that I must admit fault and make apology for blanking off the wrong side windows. Kagero's drawings get them wrong, so beware! There should be two different window panels; the little beggar at the rudder pedals on the pilot's side and the larger top window by the observer.

The latter has an internal frame, making it appear as a double-paned affair. Photos in Olrog's excellent volume 'Dornier Do215, From Reconnaissance Aircraft to Fighter' show this to great example, but came too late for me to correct my error. For the last grand bit of scratchbuilding in the cockpit, it's turn to the ventral gun tub. It was placed over the normal crew hatch, which necessitates building a new and somewhat crude sheet-metal hatch. This took the place of the lower gun station. Like the gun pod, there were two variations, so mind your reference photos! As supplied, the kit pod is undersized; it needs to accommodate two MGFF 20mm cannon, after all.

Again, Verlinden supplied the gun bodies and ammo drums, and the rest was banged together by Yours Truly. I based the gun pod innards on the example used on Bf110's. If you have an Eduard G model, you have a spare early interior version and can save yourself my self-inflicted bother. Incidentally, Master Model's excellent brass barrels armed all my guns for this build. ▶

# FULL-BUILD: SECOND WORLD WAR AXIS AVIATION

## REVELL/ICM 1:48 DORNIER DO215B-5 ● KIT NO.04925

### ☛ 'THAT' CANOPY

Capping off the interior is the marvellous greenhouse canopy. It's a bit spoiled by being tapered in the bottoms of the side windows; not much to do about that, unfortunately. Before adding the armoured-glass windscreen, cut away the notched window below it, as it has the opening for the unused Spanner Q-tube opening moulded in.

The real greenhouse was encrusted with gear, adding to the claustrophobic confines of what must have proven a deathtrap for many a crew. I tried to keep mine simple, with a control box for the direction finder over the pilot's right hand, a padded leather cover for the motor of the device itself, a couple

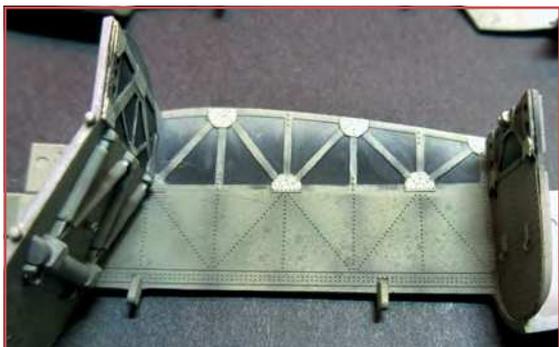
of extra ammo drums for the MG FFs, and of course the rear gun. At this point all of this nonsense was painted up and the fuselage halves and nose joined forever. I began working back toward the tail. Kagero's drawings, backed up by the photographic record, reveal that the small bomb bay hatch (and its window) are noticeably undersized. I cut the panel away and replaced it with a bit of clear styrene cut from an old CD jewel-case.

It's been noted from the kit's release that the empennage has some serious flaws. The horizontal stabilizers are too short and their centre section too wide and no depiction of the lower side fairing are evident. Vector's excellent

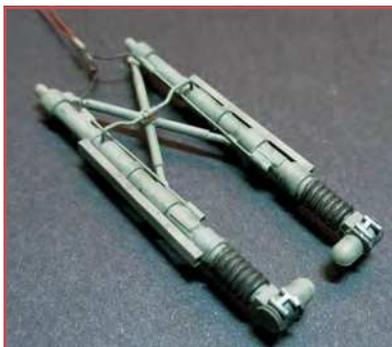
correction set fixes this problem and adds a better tail wheel, mounting fork and fairing, to boot. My hammy fists bodged the paper-thin fairings, so I had to re-build them with styrene stock. Such is the modelling life.

My Vector tailplane assembly needed a few styrene shims, possibly poor trimming of the original fuselage, I'm willing to bet. The kit fins need a few panels scribed in, and the rudders have scribing that needs to be filled. All the original flying surfaces were completely wrapped in fabric and doped to a smooth finish.

The nacelles are complex little assemblies that, with a bit of care, come together rather nicely. Be sure to



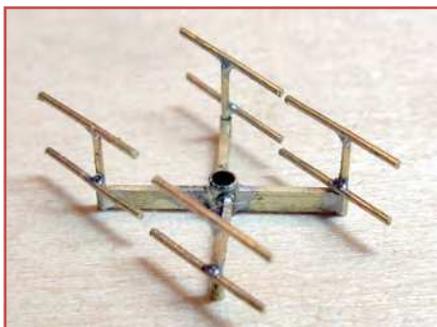
I thought it would be nice to show the starboard engine in all its glory. The reduction gearbox was drilled and given its symphony of bolts, the cooling tank was plumbed, including the complex condenser units, and the spark plug wiring loom fleshed out



Again, a spritz of Dark Grey gets the ball rolling. I personally find the inline nacelles of the 215 series to be absolutely lovely



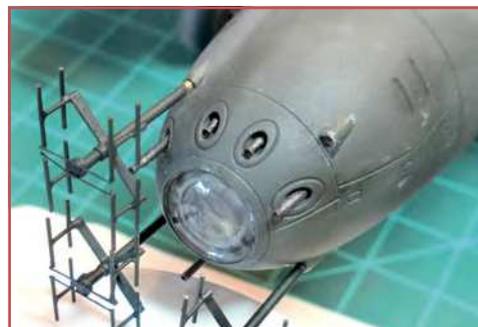
Likewise, RLM02 is one of my favourite colours, adding a nice greenish bloom to an otherwise drab scheme. Brackets and rods brace the power plant and the supercharger air intake is a fun detail



The kit engine mounts are glorious and the coolant tank looks the part with a few hoses added and some careful staining



I couldn't help but make my own radar array, twice! The first set was a bit too big (again, bad, bad me. Despicable, actually!) Sixteen soldered dipoles glued to four cross mounts glued to four arms. And, um, yes, all of that twice



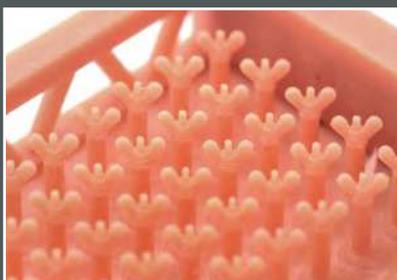
Again, worth the effort! The kit nose was closed off at the rear with a styrene firewall and a blanked-off tube filled the otherwise empty space behind the lens. Sprinkle in some lovely turned-brass Master gun barrels to finish the toothy front end

## Mini Review...



**HEAVY HOBBY 0.7MM & 1MM BUTTERFLY NUTS (HH-35048)**  
www.heavy-hobby.com

If you're an obsessive detailer of WW2 German tanks and AFVs (nothing wrong with that!), you can now stop scouring the internet for hard-to-find Model Kasten butterfly nuts (wingnuts), thanks to Heavy Hobby. This new manufacturer has released a pack of 3D-printed 0.7mm and 1mm wingnuts and one pack provides 470 of each size, enough to last several lifetimes. Fantastic detail and perfectly printed.





A close view of the lens. With the FUG200 radar rendering the infra-red spotlight null, it was removed from service. I fancifully added a metal cover to the bulb socket in its adjustable mount.

The gear bays are plated in Brass by Eduard's lovely set. That upper rib was open to the wing's interior, so I tried a little trompe l'oeil illusory painting to imply open space. It's nice to have fun whenever you can.



switch the firewalls – parts 20 and 21 – to get a proper fit. This is the sole error I found in the kit instructions. The landing gear bays have basic ribbing plus a handful of ejector pin marks, but the Eduard set gives them a lot of depth and detail.

I had a bit of fun painting a little trompe l'oeil in the upper reaches that depict the open wing ribs of the real thing. I added a pair of diagonal braces to each unit from styrene rod; see the photos for specifics. Now it would seem that at some point during production a small chin scoop was added to the very front of the nacelle and wouldn't you know they were present on our very own Oblt. Helmut Lent's mount. I formed them from thin aluminium stock; roofing flashing, to be exact. Quickboost props and spinners replaced the somewhat clunky kit bits.

## UNDERCARRIAGE

The electrically-driven landing gear is nicely depicted straight from the box, but brake lines and few other details will satisfy the more compulsive modeller (speaking for myself, of course!). I used Squadron's True Details wheels, as they have better hub detail. R4 + DC had circumferential tread, a bit of an oddity, but for the life of me I couldn't find an easy way to add those grooves to the smooth resin tyres. Please don't tell the feldmarschall!

ICM has a welcome policy of including detailed engines in their bomber kits. I assembled one OOB, painted it black and gave it a quick drybrush to highlight the details for your inspection. The other got the full Chuck W treatment, with added bolts, wiring, hoses, coolant condensers and so on. Always a fool with my money, I used Quickboost's hollowed exhausts, although they are mostly hidden by the flame dampers. After painting and assembly they're barely visible, but I know they're in there.

The wings assemble well, but do need a little extra love. The starboard engine intake needs to be filled and a new opening added to the port side of that nacelle; the engines were identical, not handed. I added some baffles to block off the openings. The landing light is a solid chunk and the opening in the wing for it was crude, so I cut the whole section out of the wing and rebuilt it from styrene, and shaped aluminium sheet reflector and a turned clear styrene bulb.

A clear cover was smash-formed over the wing leading edge, then trimmed and glued in place. The oval window was masked by Eduard's precut mask. Sorted! Every Do215 had a small but prominent rearward-facing vent scoop above the landing gear bay; I fashioned a pair from a scrap of sprue. General assembly was, for me, a pretty standard affair. After all the mods to the cockpit I encountered a fair pest at the join to the wing and fuselage uppers. Milliput filled the gap nicely, though, as well as a few other seams.

The nacelles needed some careful thought and applied modelling skill; a bit of sprue to jack a wing opening a bit wider, styrene strip to fill gaps and scraping away plastic from the contact points of the nacelles themselves. In the end, minimal filler was needed. Mr Dissolved Putty is my new modelling best friend. Being a mad fella, it was only natural for me to add Eduard's filigree flaps. I managed to completely ruin a set, but made good on the second round. They're a bit on the rickety side! Once the upper panels were safely tucked into the wings and faired in, I sprayed them RLM02 and masked them off.

## TIME FOR SOME PAINT

After many months of fabricating tiny parts, dropping them on the floor and finally gluing them all into a coherent whole, it was at last time for the camouflage I can't resist an oddball application of wartime colours, but I'd shrivel up and die to paint the same scheme twice. I used Lifecolor paints to lay down this early Nachtjäger scheme. It goes on beautifully, but is as fragile as any other vinyl-based paint.

A coat of Pledge with Future



The sturdy gear was enhanced with more Eduard 'etch, brass wire and Albion Alloys tubing

quantum rigmarole (or whatever they're hawking it as these days) mixed with a bit of simple green soap gave it a bit of a skin for the processes to come. Revell's decals are distressingly thick; several applications of Walther's Solvaset were needed to get them to cuddle up to the surface detail. I broke down and used the much friendlier ICM fuselage codes and crosses.

The problem is that neither decal set is correct: The upper crosses need the white areas toned down with a pale grey. After another coat of Future I carefully masked these areas off with trimmed bits of Post-It notes. A thinned mix of Tamiya paints was sprayed at low pressure, all whilst holding my breath. The rudder swastikas were sourced from SuperScale sheet #48-1210 Dornier Do17Z-2. Their white areas were knocked back by a spray of thinned brownish-black to simulate exhaust stains, a happy by-product of the weathering process!

I kept weathering to a dull roar, as photos show these homeland-based planes were well-maintained. A light panel wash of oils, some sprayed panel shading and highlighting and a restrained amount of scuffing was all it took. A light misting of a dusty tint and some simulated boot prints topped off the finish.

I keep my sub-assemblies and painted odds and ends in plastic containers as I go; it was now time to add them to the model at last. The most easily-broken bits, as well as the canopy, were fixed in place with a marvellous Japanese product, Cemedine high-grade model glue (CA-089 P20ml). I got mine from Amazon. It dries very clear, glossy ▶



The gear in place. The upper diagonals are styrene stock and the light-coloured reinforcements are merely painted on. It's worthy to note that the gear was electrically driven via a long jack-screw and not hydraulics

# FULL-BUILD: SECOND WORLD WAR AXIS AVIATION

REVELL/ICM 1:48 DORNIER DO215B-5 ● KIT NO.04925

and makes a tough, rubbery bond. The antenna cables are my first use of EZ Line. I wanted it to have some give as the very last details to added would be delicate enough with worrying about a snapping antenna.

## RADAR ARRAY

The FuG 202 radar array had kept me awake many a night. The kit parts are unacceptable to my eye. Eduard's set was much finer but unbelievably delicate. I settled on making them myself, from brass sheet stock, Albion Alloy's matchless micro-tubing and fine brass wire. Eighteen sets of dipoles were soldered (always make a few extra) using my resistance soldering unit. The mounting arms were likewise fashioned from a bit of tubing and a length of brass strip cut from a larger sheet and then soldered to a brass tube hub in a cross-shaped pattern.

The main shafts had telescoping bits of tubing and wire soldered at the rear and styrene discs pinned to the fronts. Lastly the shafts were faced with tiny etched caps from the Eduard radar set. Once all was assembled I did a trial fit on the nose of my spare kit, an utter defeat as I had made the whole damned thing a percent or two too large! There was nothing else to do but start all over again and this I did. The second set fitted perfectly and was glued in place with Cemedine. I was then glued in place with a very nice little gin Martini.

I did want one last thing, inspired by a period photo, a ground crewman



carefully threading his way up the spine of the aircraft. I Frankensteined a character together from Eduard's venerable Luftwaffe figure set, daubed him with paint and pinned him to the finished model. Done at last! In conclusion, I'll have to say that this is a very nice kit of a wonderful subject, but not without its faults and shortcomings. For me, it's first-class grist for my modelling mill. Should you want to do a much simpler version, I'd wholeheartedly recommend building G9+PM, an all-black ship with no gun pod and no radar, only a second Q-tube for the observer in the windshield. Decals are

available from Xtradecal, #X48181. There's always an easier way, but I'll take the challenging path. Cheers! ●

## TECHSPEC...

REVELL/ICM 1:48 DORNIER DO215B-5 KIT NO.04925

### Materials:

Injection-moulded polystyrene, waterslide decals

### Paints used:

Listed in text

### Availability:

Revell models are widely available from good model shops and online. [www.revell.de/en](http://www.revell.de/en)



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



**NEW  
MOULD**

**1:48**

# Blackburn Buccaneer S.2C/D A12012



**BLACKBURN BUCCANEER S.2D**  
No. 809 Naval Air Squadron, HMS Ark Royal, August 1978.



**BLACKBURN BUCCANEER S.2C**  
No. 801 Naval Air Squadron, HMS Hermes, 1969.



**BLACKBURN BUCCANEER S.2C**  
No. 809 Naval Air Squadron, Royal Naval Air Station Lossiemouth, Scotland, 1970.



**BLACKBURN BUCCANEER S.2C**  
No. 803 Naval Air Squadron, Royal Naval Air Station Lossiemouth, Scotland, 1969.

Length 402mm Width 280mm Pieces 291

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Designed to have exceptional low altitude performance, the Blackburn Buccaneer was one of the most capable aircraft of its kind. A triumph for Britain's aviation industry, the subsonic strike jet is the heaviest aircraft ever operated by the Royal Navy from an aircraft carrier.

- Folding Wings
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- Engine Panel
- Detailed Cockpit
- Intake Covers & Crew Access Ladders

● **Armament Included:**

- 2 x Royal Navy 2 inch Rocket Pods
- 4 x 1000lb Retarded Bomb
- 4 x 1000lb Free Fall Bomb
- 1 x Martel Missile, TV Guidance Pod
- 2 x Martel Missile, TV
- 2 x Martel Missile, AR



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Official Product

**FULL-BUILD: MODERN SUPERCAR**  
ALPHA MODEL 1:24 FERRARI 488 PISTA ● KIT NO.AM02-0010





*Robin Witt builds the Alpha Model Ferrari 488 Pista in 1:24 and finishes it with Zero Paints and Scale Motorsport carbon-fibre decals*

# PISTA RÉSISTANCE!

## FULL-BUILD: MODERN SUPERCAR

### ALPHA MODEL 1:24 FERRARI 488 PISTA ● KIT NO.AM02-0010

This is a first for me in a couple of ways. It's my first multi-media resin based model kit and, you know, way more than that, it's my first article for this wonderful TMMI magazine that I started getting as a child so many years ago. Yes, it's a proud moment. I tend to concentrate on highly detailed build projects of cars and motorcycles, taking the base kit and using specific after market sets and modifying generic after market items to pack in as much detail as my modelling skills and eyesight allow.

This leads to long project build times but gives me a fantastic completed scale model. I was looking for an alternative (quicker) modelling route that I could

take as a break during my longer builds, but it needed to satisfy my desire to build stunning modern day sports cars, when I came across the Alpha Model brand. Although Alpha Model are a new (in the last few years) company, they are linked to Hobby Design in China which is a manufacturer that has been providing very good quality aftermarket items and resin kits and transkits to automotive scale modellers for many years. Alpha Model have released a number of fabulous modern day supercars in 1:24 and there are also some releases from them in 1:18.

For my first venture into resin based kits I selected Alpha Model's 1:24 Ferrari 488 Pista (AM02-0010). I had seen a stunning example of a

2019 Pista for sale on the wonderful 'www' of all things, in limited edition (hmm, surely all Ferrari supercars are limited edition?), Extracampionario Nuovo Rosso Formula 1 2007 paint, with a two-tone centre stripe in Bianco Avus/Blu Elettrico (so a red car with a white and blue centre stripe). My plan was to replicate this car, but to enhance it further by adding a full set of Ferrari four-point racing harnesses rather than typical seatbelts.

The 488 Pista was launched by Ferrari at the Geneva Motor Show in 2018. With its turbo charged V8 engine lifted from the 488 Challenge race car, the 488 Pista has an awesome zero to 125mph time of just 7.5

seconds, just a touch slower than the La Ferrari.

Although I had no plans to superdetail this model, my aim was to apply carbon-fibre (decal) to the body and cabin, Alcantara fabric finish to the interior, the racing harnesses (of course), plus I had decided that I would remove the cast resin wheel nuts in preference for turned-metal hex items and air valves. My target was to complete this build in three months which may seem long to some, but my superdetailed builds regularly take me nine months to a year.



The quality of the Alpha Model resin casting was really clean and crisp. Before any work was done, masking tape templates were prepared for the carbon areas on the body shell



Some of the many modelling tools used to prepare the resin parts prior to paint. Not shown here, is however possibly the most important item is a good quality face mask as the particles flying about in the air when you are sanding, filing or scribing resin can be dangerous to your health



Preparation work on the resin included sanding out some slight imperfections on the body shell and using scribes to open out the panel lines (make them a bit deeper)



Scribing work around the windows was dual purpose. One scribe line was required to deepen the panel lines and door openings; another line was required to provide a neat masking tape cut guide line when painting the black 'rubber' areas before adding the windows. All this work needs to be done at prep stage



The sizing from the silver and black tri-colour stripe decal supplied by Alpha Model with the Pista kit was used when masking for painting the 'special order' Bianco Avus/Blu Elettrico tri-colour stripe



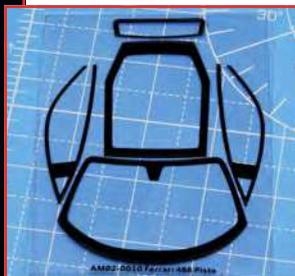
A carefully prepared 3mm masked line front to back on the car (including the front spoiler) gave the centre line to work to. The centre line of the tri-stripe was airbrushed with Mr Color Cobalt Blue (item 80) using an Iwata Custom Micron CM-B airbrush

Most masking removed, only leaving the white areas of the tri stripe masked. The white base was obtained with Zero Paints Pure Brilliant White (item ZP-1026). Prior to the Rosso colour going down the blue stripe was masked over

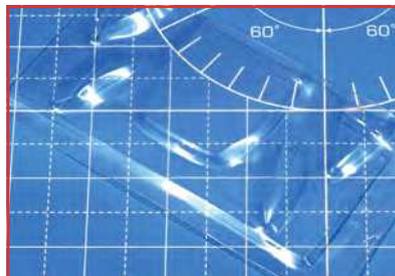




The Nuovo Rosso Formula 1 2007 paint finish was obtained using Zero Paints Rosso Fluorescent F1 2004- 2006 (item ZP-1007). The finish was pretty perfect and the time consuming masking job for the tri-stripe worked brilliantly



The acetate windows provided by Alpha Model take a bit of getting used to. They come with the black areas pre-printed which is great, and with careful handling and gluing they do give a really nice finish



Another challenge was the vacuum formed clear headlamp lenses. Again, careful preparation, cutting and gluing is required

### PISTA IN THE PACKAGE

In the box you have pretty much everything to build a fantastic scale model. The earlier kits (as with this one) didn't include seat belt material but that's all. The quality of the resin parts is outstanding. Along with these, you have a well thought through selection of photo-etched items, turned metal exhaust tips, acetate windows and a selection of very nice quality decals and metal badges.

The Alpha Model instructions are more of a schematic than full-on build instructions; I reckon they've taken the CAD drawings and added part numbers and a few arrows. That said, as long as you test fit all parts and really consider the order of assembly, you'll be just fine

I had read that clean-up for resin kits is a bit different. You need to consider that the resin is likely to still have release or production agents on it that need to be removed. You need to wash all parts in soapy water or use an anti-silicone degreaser before priming and painting. Also – some very important health and safety advice – you should wear an appropriate mask when sanding, using a file or drilling resin parts as this can create fine resin particles which can be dangerous if breathed in.

With these resin 'considerations' and use of super-glue rather than the typical Tamiya Extra Thin Cement, build up of the kit was pretty straightforward. ▶



The wheels provided by Alpha Model are very nicely moulded. The tyres are separate and have the tread pattern included



The kit wheels were enhanced by fitting aftermarket tyre air valves. A 0.3mm hole is required to install the turned metal air valve



A further enhancement; the resin wheel nuts were ground out with a PCB end mill drill bit. Test fitting of the aftermarket items is shown here... turned metal hex wheel nuts and air valves. These items were from the Tuner Model Manufactory (T2M) supplier



The brake system callipers were painted using Zero Paints Brake Caliper Yellow (item ZP-1255). The hand-brake portion of the rear brake calliper was painted Semi Gloss Black



Alpha Model provide the Brembo Carbon Ceramic decals. It's just a pity they printed 'Carbo' rather than 'Carbon'. C'est la vie, they still look rather good!



Above left: Alpha Model give you options for the brake discs. You can paint and install a chunk of resin, or you can use the provided etch that layers up to represent rather nice ventilated brake discs. Being carbon ceramic discs, Zero Paints Carbon Ceramic Grey (ZP-1319) was used over etch primer. Above right: This little lot of photo-etched pieces was required for each brake disc





The completed carbon ceramic brake discs are shown here. The combination of wonderful 'etch design by Alpha Model, Zero Paints Carbon Ceramic Grey paint and a bit of detail painting provides a really nice finished article



Brake system assemblies ready for installation



The finished wheel really does pop with the bright yellow callipers and carbon ceramic brakes. The enhancements using the T2M turned metal after market items gives you a set of wheels to be proud of



Installed wheel on the completed model... Wow



The resin moulding for the dashboard is cast quite splendidly. There are 'etch pieces provided too for detailing of the dashboard



As with the dashboard, the driver and passenger resin seat casting is spotless; indeed every piece of resin in this kit is pretty spotless. The centre strip of the seats was scribed to give a deeper line as the finished seats would have a red leather stripe per reference photographs. The scribing would help give a sharp finish when masking



The separation line to denote where the Alcantara fabric finishes needed opened up. 0.08 and 0.15mm HIQParts scribes were used for this; 0.08 initially (very carefully so as not to slip) and then 0.15 subsequently to open further

The completed seats with a dark grey Alcantara fabric finish, Carbon Fibre backs and red Ferrari four point racing harnesses to complete the look



⚠ The acetate windows did need some thought as to the best way to install them and YouTube is your friend here as there are a number of videos giving excellent advice.

I used Tamiya Liquid Surface Primer at a 50:50 dilution with Mr Hobby Self Levelling thinners. The majority of the paint work was done using Zero Paints lacquers from www.hiroboy.com. Other paints used with the build were Tamiya LP and Mr Hobby lacquers. Careful masking and painting, using the Alpha Model provided decals for sizes gave me a perfect tri-colour centre stripe.

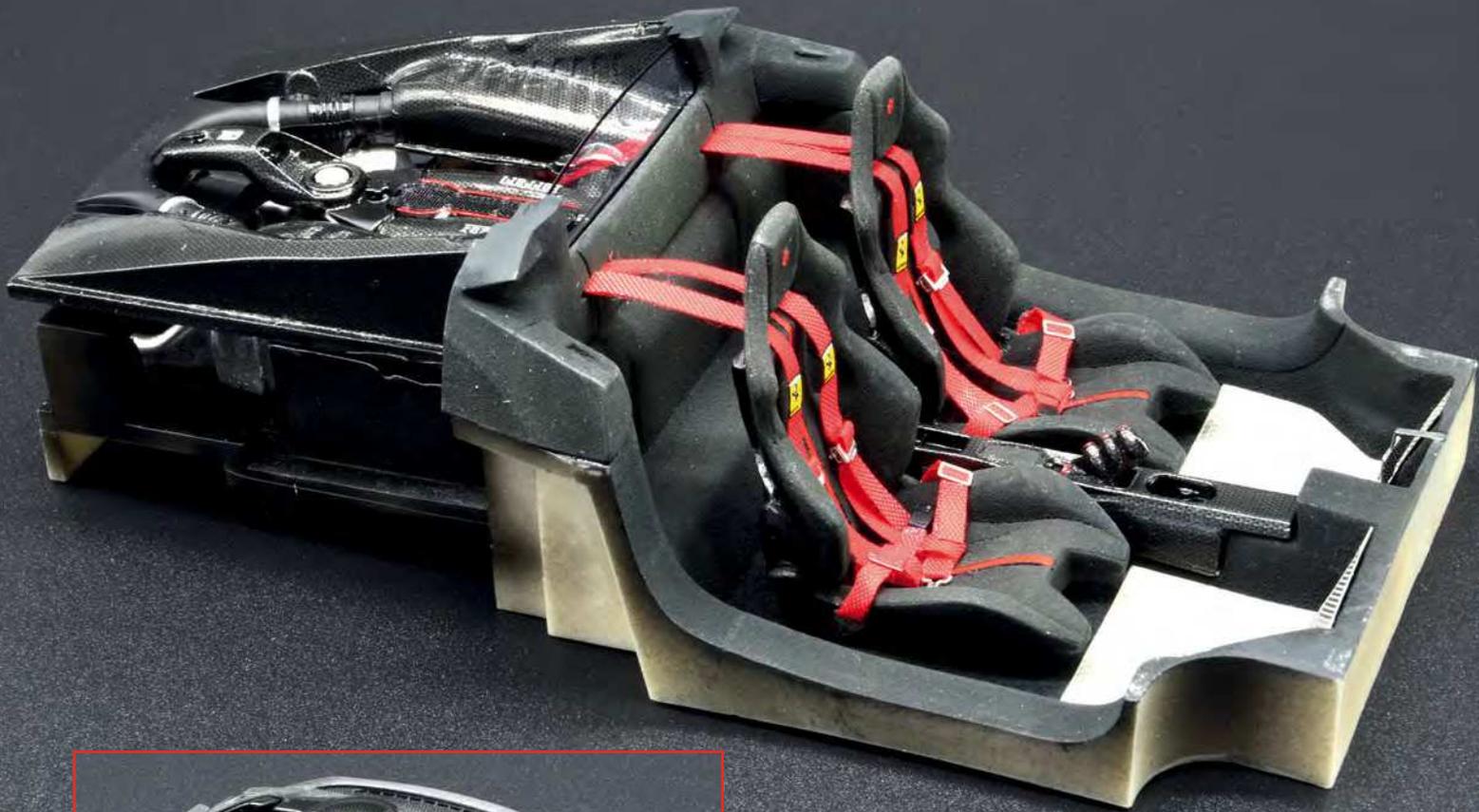
Before priming or painting I used my reference photographs and created masks of all the carbon areas on the bodywork and interior.

These masks would be used later in the build project to create the high definition carbon decal shapes that I required to represent the carbon areas. I used Scale Motorsport carbon-fibre decal throughout the build.

The Alcantara fabric finish in the interior was achieved using a product called Glass Bubbles (or Microspheres). I brush-painted flat black enamel and then dusted on the glass bubbles using a very fine sieve. I recommend that you wear a mask when doing this as the product is basically a very fine dust. Thereafter you just need to airbrush the colour that you wish to use for your subject. In this case I used Tamiya LP-60, Nato Black which gave a result very close to my reference photographs. ▶



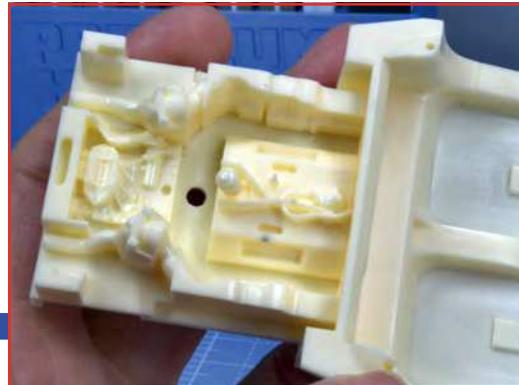
Carbon fibre Ferrari racing seats installed in the cabin, complete with full four point racing harnesses



Side view of the installed Ferrari racing seats. The extra effort involved to fully detail the seats and add the four point racing harness has produced a unique model of this awesome car



The dashboard has been fully detailed with Alcantara fabric and carbon fibre accent areas. The steering wheel has carbon fibre accents too, along with the Tri colour upper and lower Italian flag livery. The doors were treated to Alcantara fabric and carbon fibre accessories also



The engine compartment is made up of the base moulded engine detail, plus six other resin pieces for further detailing of the engine and airbox. There are also 'etch detailing pieces and shiny metal decals



It really is amazing the level of detail that can be added to the engine block. All carbon fibre areas were treated to custom made decals using Scale Motorsport carbon decals



Thankfully the detailing added to that fabulous V8 Ferrari turbo charged power block is proudly showing through the rear window

## FULL-BUILD: MODERN SUPERCAR

ALPHA MODEL 1:24 FERRARI 488 PISTA ● KIT NO.AM02-0010

### ◉ LAST THOUGHTS

I really enjoyed the challenge of my first resin based model kit. I can certainly recommend Alpha Model or Hobby Design for those folks, similar to me, that are looking to try something different to the

typical polystyrene kits. With this brand you are getting a resin kit that will go together very well, without too much in the way of filing, scraping and filling. You'll build a fabulous model of a modern day supercar with the parts in the box,

with the result of a unique and awesome model of a modern day supercar with a bit of reference research and some aftermarket additions. I will certainly be building more; indeed my stash of Alpha Model and Hobby Design resin kits has grown

somewhat.

Finally, I would like to thank Marcus for helping me fulfil a childhood dream (albeit I'm now well into my '50s) of having one of my builds printed in this fantastic publication. I very much hope to be back soon. ●



### TECHSPEC...

#### ALPHA MODEL 1:24 FERRARI 488 PISTA AM02-0010

##### Materials:

Resin, various photo-etched metals, turned aluminium, clear acetate windows, waterslide decals (including metal decals)

##### Paints used:

- Zero Paints: Rosso Fluorescent F1 2004-2006 (ZP-1007), Pure Brilliant White (ZP-1026), Carbon Ceramic Grey (ZP-1319), Brake Calliper Yellow (ZP-1255), Bright Red (ZP-1003), Textured Red (ZP-1577), Diamond Finish Gloss 2K Urethane (ZP-3035)
- Tamiya Lacquers: White Surface Primer (87096), Flat Black (LP-3) Semi-gloss Black (LP-5), NATO Black (LP-60), Clear Red (LP-52), Clear Orange (LP-53), Smoke (LP-67)
- Tamiya Acrylics: Park Green (X-28), White (X-2), Red (X-7)
- Tamiya Enamel: Panel Line Accent Black (87131)
- Mr Color Lacquers: Cobalt Blue (80), Super Fine Silver 2 (SM201), Super Iron 2 (SM203), Super Stainless 2 (SM204)
- Humbrol Paints: Matt Black (33)

##### Availability:

- Alpha Model: [www.hiroboy.com](http://www.hiroboy.com) [www.alpha-model-kit.com](http://www.alpha-model-kit.com)
- Zero Paints: [www.hiroboy.com](http://www.hiroboy.com)
- Scale Motorsport Carbon Decal: [www.hiroboy.com](http://www.hiroboy.com) [www.scalemotorsport.com](http://www.scalemotorsport.com)
- TunerModelManufactory (T2M): hex wheel nuts, racing harness set, air valves: [www.bnamodelworld.com](http://www.bnamodelworld.com)
- Glass Bubbles (or Microspheres): [www.easycposites.co.uk](http://www.easycposites.co.uk)





**eduard**

# NEW TOOL

## F4F-3 Wildcat

ProfiPACK edition kit of US carrier based fighter F4F-3 Wildcat in 1/48 scale. Kit presents aircraft from United States Navy and Marine Corps.

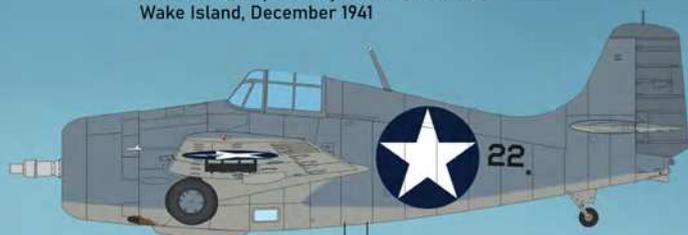
- Design and tools Eduard, 2022
- Color photo-etched details and die-cut mask
- Decal sheet for 6 markings



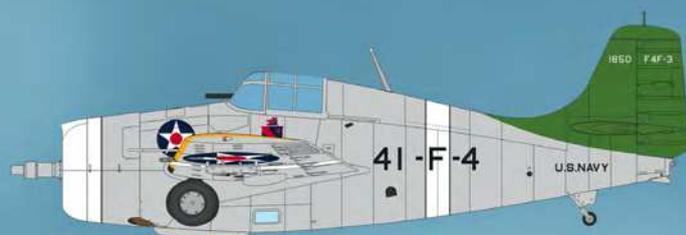
VMF-111, Army-Navy maneuvers, Louisiana, United States, November 1941



BuNo. 4019, Capt. Henry T. Elrod, VMF-211, Wake Island, December 1941



BuNo. 4006 (4008), Capt. John F. Carey, VMF-221, Midway Island, June 1942



BuNo. 1850, Lt. Charles Shields, VF-41, USS Ranger (CV-4), December 1940



Lt. Edward H. O'Hare, VF-3, USS Lexington (CV-2), Hawaiian Islands, April 1942



BuNo. 2531, Lt. Elbert S. McCuskey, VF-42, USS Yorktown (CV-5), May 1942

#82201

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

**Aaron Kuck** Zimmerits-up and fits Friulmodel tracks to Tamiya's 1:48 'Sturmmörserwagen 606/4 mit 38cm RW61' Sturmtiger



TAMIYA'S TINY

# STURM

TIGER...



**A**s a kid who loved to build models of World War II armoured vehicles, Germany's insistence on using a certain anti-magnetic paste in 1943-44 posed a big challenge for me. There weren't too many options for replicating Zimmerit that a twelve-year old kid could master. Putty turned into a thick goopy mess and using a hot screwdriver to burn the texture into the model seemed like a disaster waiting to happen.

Someone at my local IPMS club suggested the use of the ridged edges of fancy paper napkins – it had a pattern very similar to Zimmerit, albeit somewhat small for 1:35 scale. Nevertheless, I diligently collected some napkins and went to work attaching it to a Tamiya

1:35 Brumbär by soaking the paper with Testors Liquid Cement. At some point the combination of the pattern being too small, not pronounced enough and difficult for my twelve year old self to get to sit right caused me to abandon the project. It sat on my shelf unfinished until sacrificed to the BB gun in the backyard.

Since then, Zimmerit options have come a long way with choices such as resin sheets, specialised tools to apply your own and even kits with Zimmerit patterns moulded on. Of course I had to decide to switch scales and focus primarily on 1:48 armour where the options narrowed quite a bit. A few resin options were offered, as were sticker options, but that was about it.



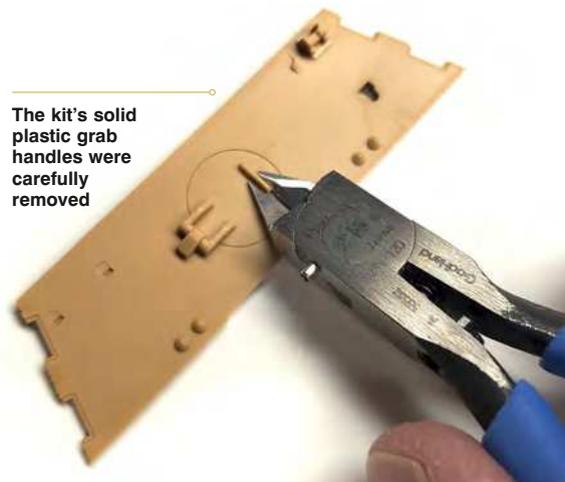
Everything collected to make the model. With only ten pieces, the Zimmerit set is a great introduction to the product. I later found out I had the wrong engine deck screens and had to replace them with a Hauler product



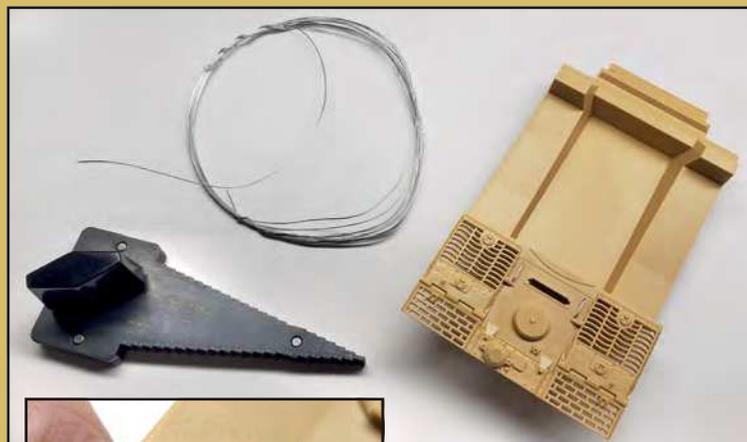
I use a RP Toolz Magnetic Handle to help hold kits during assembly and finishing. You can see the round disks glued inside the hull which sticks to the magnets in the handle



I added flame cut edge details to the armour plates using a hobby knife and then some liquid cement to soften the edges

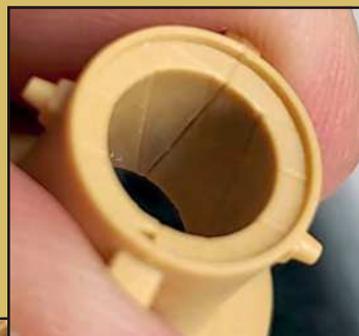


The kit's solid plastic grab handles were carefully removed



Wire was used to create the grab handles using a Mission Models Grabhandler tool

Spur-goo – bits of plastic sprue melted in liquid cement – was used to fill a seam on the hull. Spur-goo dries to the same hardness as the plastic around it, since that is what it is, plus it doesn't shrink. I also added flame cut details to the interlocking plate



My only real 'wish' for this kit would have been for this seam line to have been hidden in one of those rifling grooves

I used a Proxxon rotary tool to thin out the inside of the exhaust shields and the back side of the side skirts



## ENTER MONROE PERDU

I don't know if Michael Bishop at Monroe Perdu Studios got inspiration from those fancy paper napkins with the ridged edges or not, but as soon as I saw his Zimmerit offerings I immediately thought of that childhood experiment. His Zimmerit sets are made from laser cut paper, a unique idea in the world of aftermarket Zimmerit but one that seems to be the perfect solution for my chosen scale and are very affordable. Unlike the paper napkins, these sets are more durable and have a much more defined Zimmerit pattern.

They are a custom fit for each specific kit. The Tamiya 1:48 Sturmtiger kit was the perfect kit to try the MP Zimmerit due to the limited amount of surfaces covered and all of those surfaces being flat. Plus, it is just such a cool looking AFV. The manufacturer suggests using white glue to attach

the pre-cut panels to your model, but I simply soaked them in liquid cement once positioned on the model and that worked perfectly.

I have always thought of the Sturmtiger as a late-war, last-ditch weapon, but in researching for this article I've learned that plans for such a weapon were originally drawn up in 1943. Like most designs, the requirements and realities changed and it wasn't until April 1944

that the first prototype was shown. Between August and December of 1944, Sturmtigers – or, more accurately, Sturmmörser – were completed using rebuilt Tiger I chassis which still had Zimmerit coatings on the hulls. Armed with a 38cm mortar, they saw action in Warsaw and in support of the Ardennes Offensive. Only a small number were built, but I can't really say I tried to model any specific vehicle or

theatre of operation.

Like all of the Tamiya 1:48 line, the kit went together with no issues. I am a slow builder due to real life often rudely interfering with my available bench time plus limited display space for built models, so 1:48 is the perfect size to have any hopes of completing and displaying a kit. But 1:48 still allows you to paint and weather in a fashion similar to what can be achieved on a 1:35 kit.



Originally I just added some bolt detail to the kit crane, but I wasn't happy with the solid moulded crane arm



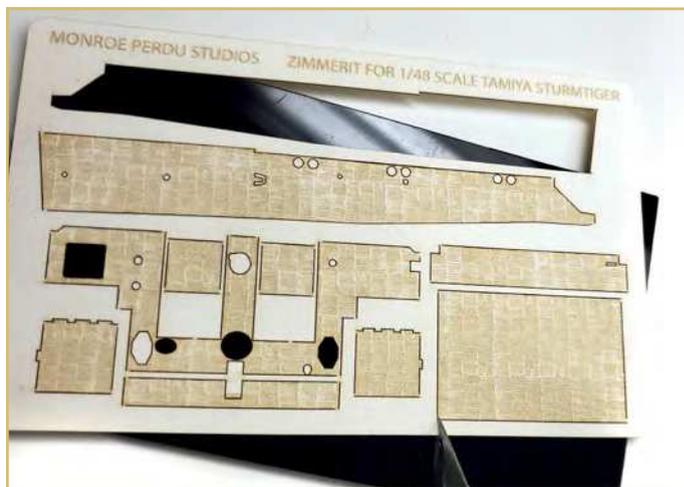
A much better depiction was made with just a few pieces of styrene strip and punched discs

## ZIMMERIT ZING

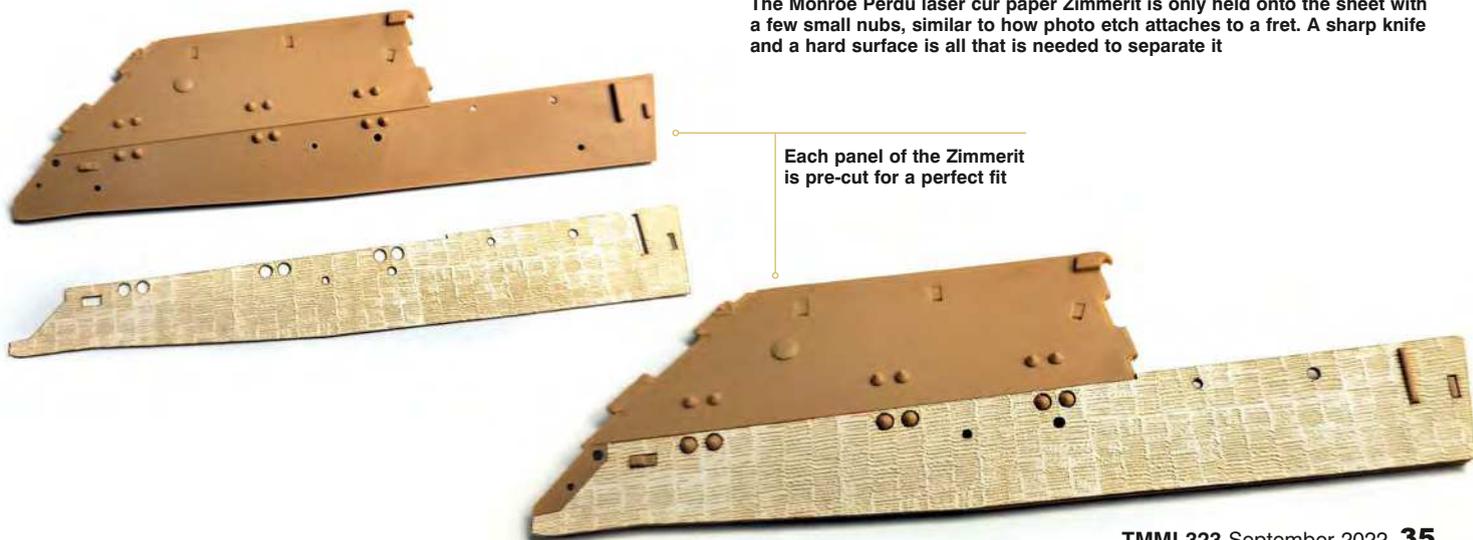
The Zimmerit was applied prior to assembly in most instances, attached simply by separating it from the sheet it was printed on, placed on the model and soaked with liquid cement. As long as you are careful not to flood any bare plastic with the liquid cement, the Zimmerit itself can be soaked multiple times as the paper won't react to the cement. Essentially you are soaking through the paper and softening the plastic underneath just enough to weld the paper to the plastic.

Once dry, it is very durable and holds up well to painting and weathering products.

I did take one additional step that I'll warn you might not be for everyone and probably isn't really necessary in the first place. The laser cut Zimmerit is on relatively thick paper in order to have the depth to create the ridges. This could result in a noticeable edge that I wanted to minimize. I carefully used a sharp knife and some tweezers to peel the back layer of paper off, leaving a semi-translucent layer of the Zimmerit pattern. ▶



The Monroe Perdu laser cut paper Zimmerit is only held onto the sheet with a few small nubs, similar to how photo etch attaches to a fret. A sharp knife and a hard surface is all that is needed to separate it



Each panel of the Zimmerit is pre-cut for a perfect fit



The scary and probably unnecessary part; thinning the back of the paper with a sharp knife, a sanding stick, and tweezers

➊ This allowed a greater degree of flexibility to bend the paper, and reduced the chances of having a noticeable edge where there shouldn't be one. It was also very time consuming and nerve wracking; I tore the Zimmerit several times. Fortunately the rips were easy to conceal when gluing the paper to the model and made a great place to depict chipped or damaged Zimmerit paste. An easier solution is to use thinned putty along the

edges to blend everything in, something I did around the conical bolts on the sides.

Overall I just can't say enough good things about the Monroe Perdu Zimmerit; the price to value is unbeatable and the final product really comes alive once a wash is applied to bring out the ridges and textures. Every time I order a set it is shipped promptly and arrives with a handwritten note from the owner thanking me for my repeat business. I love being able

to support a small business which provides such a high level of customer service and brings such an innovative and valuable product to a relatively obscure market.

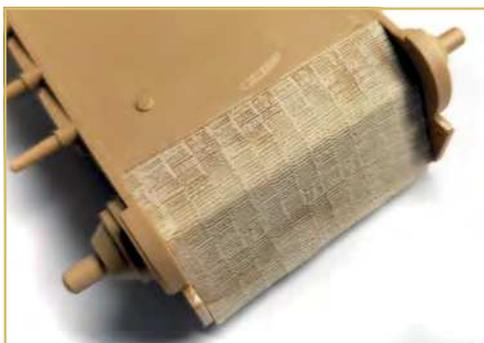
### OTHER ADDITIONS

The kit itself was built with only a few changes, most of which are simply personal preference and not essential. Photo-etched screens for the engine deck would probably be the most important aftermarket add on if you wanted to pick just one improvement. These are simple to attach and adds so much to the overall look. Make sure you get the Sturmtyger specific ones and don't assume any Tiger I grills will fit or else you will be prying them off and reordering the correct set. Not that I am speaking from experience or anything...

I shaved off the moulded-on grab handles from all the hatches and replaced them with new handles made from thin wire. My favourite source for thin wire is that supplied with Friulmodel tracks. I had a plentiful supply since I also fitted Friulmodel tracks

to this build. The addition of workable metal tracks isn't a totally necessary upgrade, but workable tracks are simply more convenient and reduce the stress level of the build. The kit parts could be used and make a perfectly acceptable depiction of the tracks but using workable metal tracks allows you to leave all those interwoven road wheels off the model for easier painting and weathering and then put them on the model afterwards. Regarding the tracks, I don't use it in the track assembly process.

Instead I use one-inch, 24-gauge/0.20mm beading pins cut to size. These are a better solution as they are rigid and can often push through some of the flash often experienced on metal tracks. One final callout; most Tiger I tracks are not 'handed' meaning there isn't a specific track for each side. So don't waste time trying to figure out why the track's direction doesn't match on both sides. They aren't supposed to. Hope the judges know that... ➋



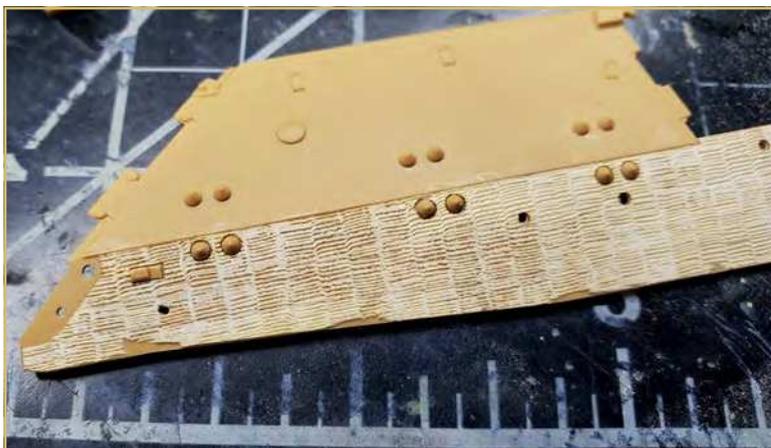
The Zimmerit panels were attached to the model by generously soaking them in thin liquid cement once in place



The danger of thinning the Zimmerit like I have described is that it might tear



Fortunately it is fairly easy to blend it in while gluing the panel to the model



Damage and chipped Zimmerit is easy to depict on the laser cut paper by tearing off a bit on the edges



Road wheels are mounted temporarily and will be removed for painting. You can see the Aber MG barrel and the weld detail added to the superstructure hooks



Mr Surfacer was used to texture the mortar and Squadron Green putty was thinned with liquid cement and brushed around the bolts on the hull to smooth the transition to the Zimmerit



The base-coat applied. I prefer to go very light on my colours as they will inevitably darken with weathering



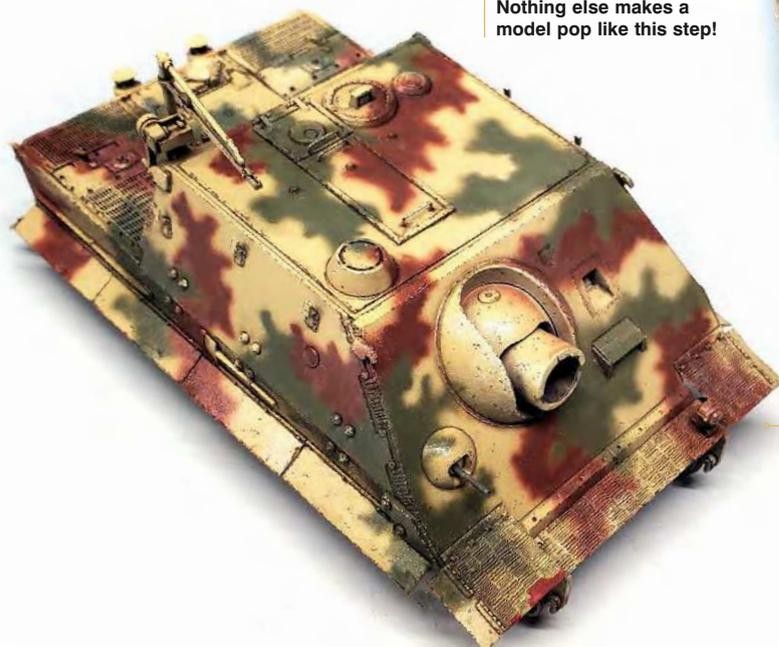
I forget this simple step on almost every build: take a picture of the paints so you can remember what you used! I think this was a 50/50 combo of Tamiya's new Dark Yellow XF-88 mixed with XF-57 Buff, or maybe XF-55 Deck Tan. I wish I could remember as I like how it turned out. The camo colours are the new Tamiya Dark Green XF-89 and the original Red Brown XF-64



The pin wash. I used to hate this step, but what works for me is to gloss the surface of the model with an acrylic clear coat. Then I use an enamel dark wash colour around all the details and in the Zimmerit. Nothing else makes a model pop like this step!



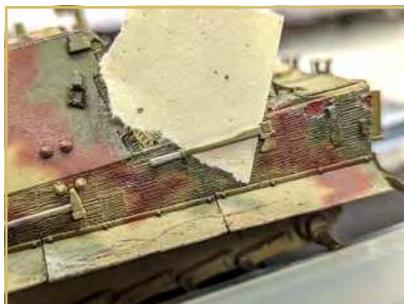
My preferred method for chipping in 1:48 is to use a sponge. I use packing foam dipped in an acrylic colour lighter than the base colour and lightly apply it over the model, concentrating on high wear areas. Doing this step while the model is still gloss coated allows you to remove any unwanted chips easily



Next I use a very fine brush along with a darker colour to fill in many of the sponged on lighter chips. It might seem excessive here, but later steps will tone it down



The road wheels received a similar treatment, although I included more red primer and rust tones into the chipping



One of my favourite techniques for painting tools is to slide a post-it note under or next to the tool to protect the rest of the finish from paint marks



It is my understanding that Zimmerit was a greyish coloured paste applied in the factories over the primed vehicle before the final paint and camouflage was applied. I dry brushed light grey over parts of the Zimmerit to portray paint wearing and chipping off the Zimmerit, and also painted the exposed sections where the Zimmerit was totally chipped off with red primer



My favourite colour for metal tools and MG barrels is Mission Models tyre Black. This dark grey colour is very versatile for using as a base and can be enhanced with steel colour pigments or paint. Also noticeable here is speckling covering the entire model. Using a brush to flip very fine dots of paint over the entire model helps to break up the solid colours into something that looks dirty, grimy, and worn



The rusted look on the exhaust stack was created by sponging on a light grey followed by several of the Lifecolor rust tones. Oils were used to create the dark sooty look



I spent a lot of time thinning the kit exhaust shields and creating some battle damage on them



But I also didn't want to cover up the work I did on the exhaust underneath! The compromise was to leave one shield on and one shield off. But that left these big mounting holes to contend with

## ● ABER TO THE RESCUE

I wanted to improve the look of some of the kit's moulded on details; enhancing the flame cut edges and welds on the superstructure with a sharp knife, thinning the exhaust shield with a rotary tool, and separating the side skirts into separate sections so they didn't look like one big solid part. I also replaced the kit MG barrel with a beautiful turned brass piece from Aber. This is another upgrade done mostly for convenience; I didn't have to scrape a mould line off a round part and didn't have to

try to drill out the barrel on a tiny 1:48 MG that would test the limits of my fifty-year old eyes and shaky hands!

The final improvements were to use Apoxie Sculpt for welds around the hooks on the upper superstructure sides, add 3D printed latches on the tools and enhance the texture of the mortar with Mr Surfacer. After assembly I decided that I couldn't live with the kit depiction of the ammo loading crane, the arm of which was a solid plastic piece. It was very simple to cut it off and replace it with two thin strips of styrene

with plastic disks sandwiched in between them. The end result looked much better than a solid blob of plastic. I promptly snapped it off during weathering.

One final word on the kit. If I had one complaint, it is that I wish the seam line in the two piece barrel followed the lines of the rifling. Instead it just goes straight across the moulded on detail, so you have to try to eliminate the seam-line inside a barrel and risk the potential of obscuring the rifling detail. It seems like it could have been relatively simple to

have the seam line follow one of the rifling grooves. A small complaint, but I am a modeller, so I have to find something to complain about!

Once assembled the model was given a coat of Stynelrez acrylic primer in preparation for painting. I'll point out my steps for the painting and weathering process in the photo captions. Apologies; this was built over the course of a few years with long breaks in between sessions (told you I was a slow builder) and so some of this is coming from memory as I try to recall what all I did! ●



The final result. I added tiny styrene blocks over the mounting holes and painted them primer red to depict the mounting points for the missing shield

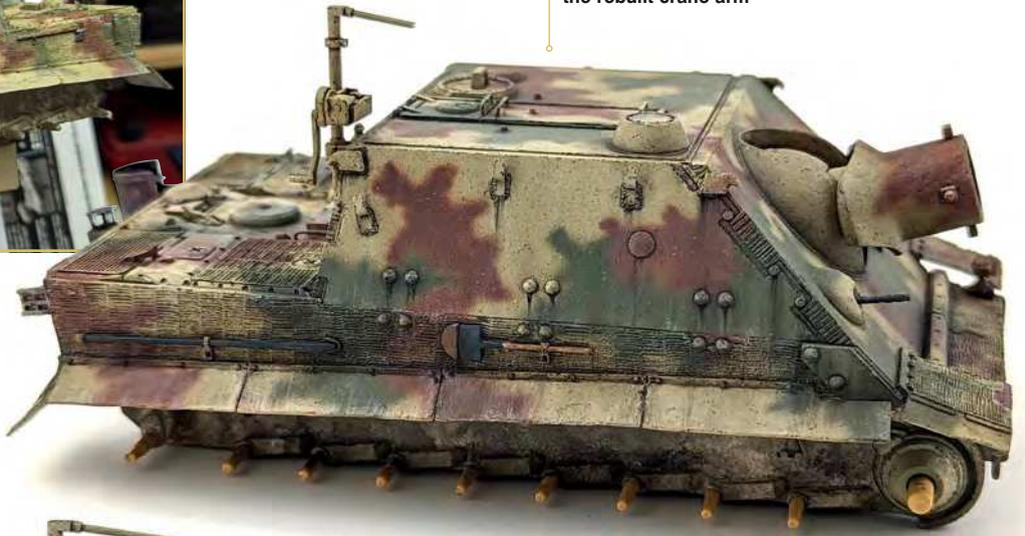


The model got a coat of VMS Matt Varnish. VMS Matt is my favourite flat coat product – it can be sprayed on wet and is very forgiving. Mr. Weathering Color washes were used to depict the dried dirt and dust on the undercarriage. Over this I worked in some darker oils to depict grease and grime

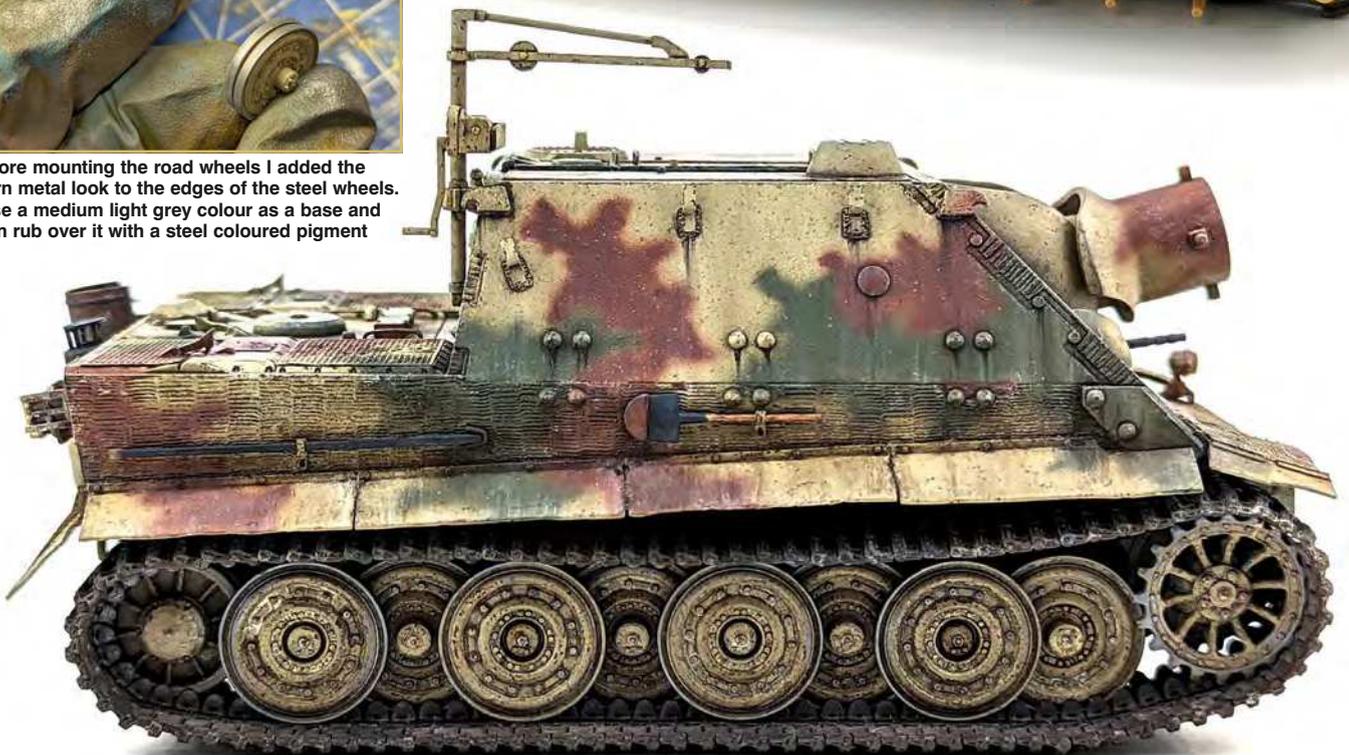


Next I applied the Mr Weathering Color washes over the entire model, streaking it along the side surfaces

I used darker oils to add streaking and shadows which added some contrast back into the finish. You can also see where I snapped off the rebuilt crane arm



Before mounting the road wheels I added the worn metal look to the edges of the steel wheels. I use a medium light grey colour as a base and then rub over it with a steel coloured pigment



FINAL THOUGHTS

This was one of those models that once I started painting and weathering, I hated it and thought it would be a total disaster, but somehow at the very end it all came together and I'm very pleased with the results. Having that faith in the entire process is one of the toughest challenges for me in building models; no matter how many I complete, there is always a

point in time I just want to dump the thing in the trash.

I'm glad I powered through and hopefully I have been able to do such a formidable looking machine and such a cool product like the Monroe Perdu Zimmerit justice! Finally, thanks to the Plastic Posse Podcast and friends for their continued encouragement, support, and feedback. ●

TECHSPEC...

TAMIYA 1:48 GERMAN 38CM ASSAULT MORTAR STURMTIGER KIT NO.32591

Materials:

Injection-moulded polystyrene, waterslide decals

Paints used:

- Tamiya Acrylics: XF-88 Dark Yellow, XF-57 Buff, XF-55 Deck Tan, XF-89 Dark Green, XF-64 Red Brown
- Abteilung 502: Engine Grease oil paint

Accessories used:

- Monroe Perdu: 1:48 Sturmiger Zimmerit (86)
- Hauler: photo-etched set (HLX48384)
- Friulmodel: Tiger I Late type tracks (ATL-4807)

Availability:

- Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited: [www.hobbyco.net](http://www.hobbyco.net)
- Monroe Perdu: [www.monroeperdu.com](http://www.monroeperdu.com)
- Hauler: [www.hauler.cz](http://www.hauler.cz)
- Friulmodel: [www.friulmodel.hu](http://www.friulmodel.hu)



Last minute touches were to randomly rub some of the edges with a dark lead pencil to give it a 'heavy steel' look and also reattach the broken ammo crane. Finally I used Abteilung 502 Engine Grease oil paint to add some fuel/oil stains to the rear engine deck and around a few of the wheel hubs

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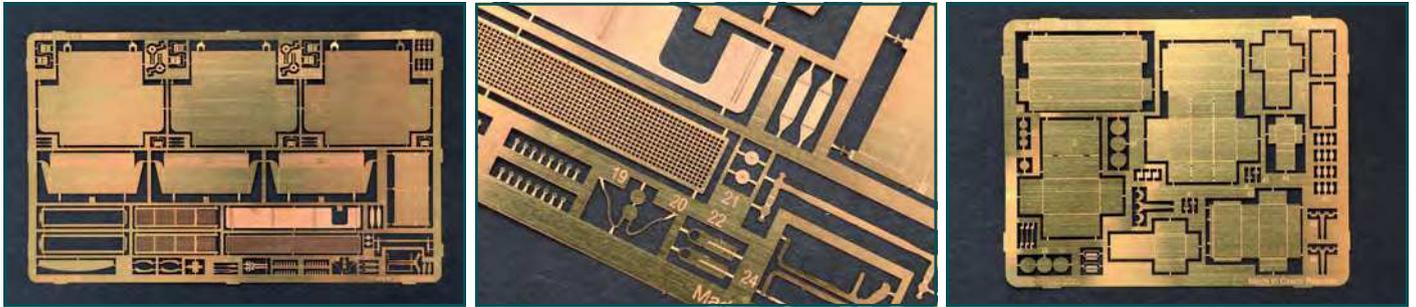
# New Releases

The latest photo-etched sets, resin parts, figures and accessories to enhance your scale models...

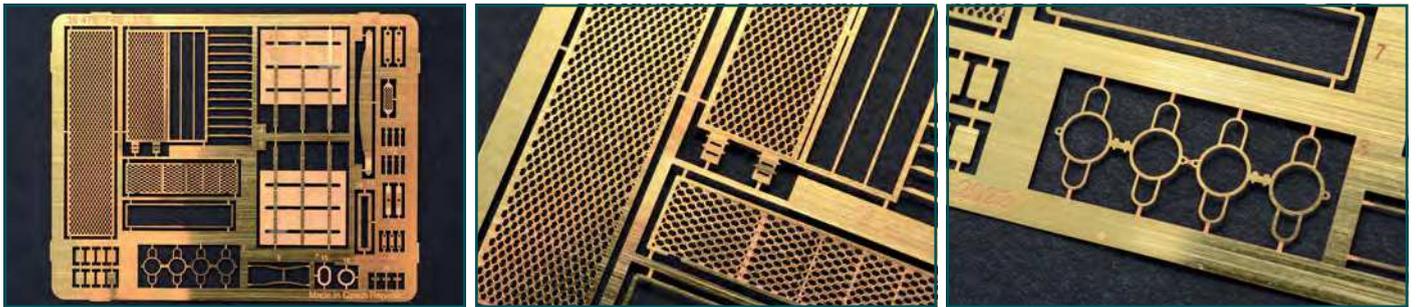
## What's in the box?

**AD**; ACETATE DIALS, **CC**; CAST CERAMIC (PLASTER), **CMA**; CAST METAL ALLOY, **CP**; CHROMED PARTS, **CPS**; CLEAR PLASTIC SHEET, **DT**; DRY TRANSFER (DECALS), **EM**; ELECTRIC MOTOR **EPS**; EXTRUDED ALLOY, **MR**; METAL ROD, **MW**; METAL WIRE, **MT**; METAL TUBING, **NM**; NYLON MESH, **PE**; PHOTO ETCH, **PEBM**; PHOTO-ETCHED BADGES/MIRRORS, **PCM**; PRE-CUT MASKS, **PMP**; PRE-ASSEMBLED METAL PARTS

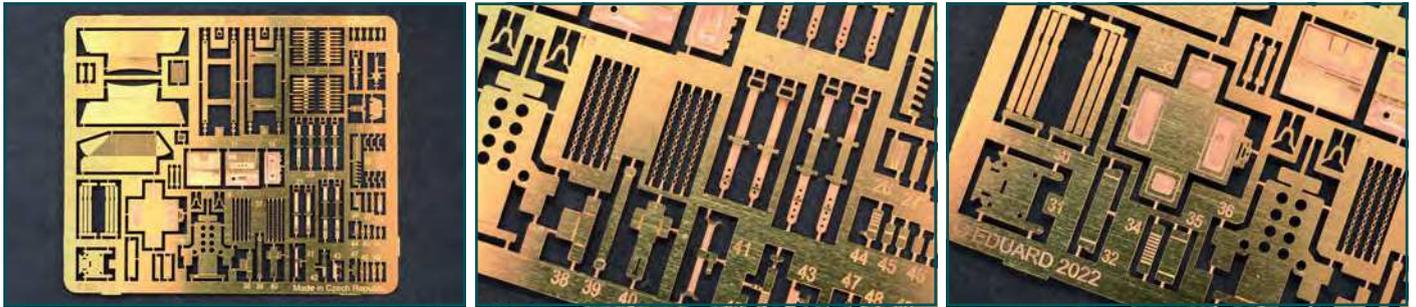
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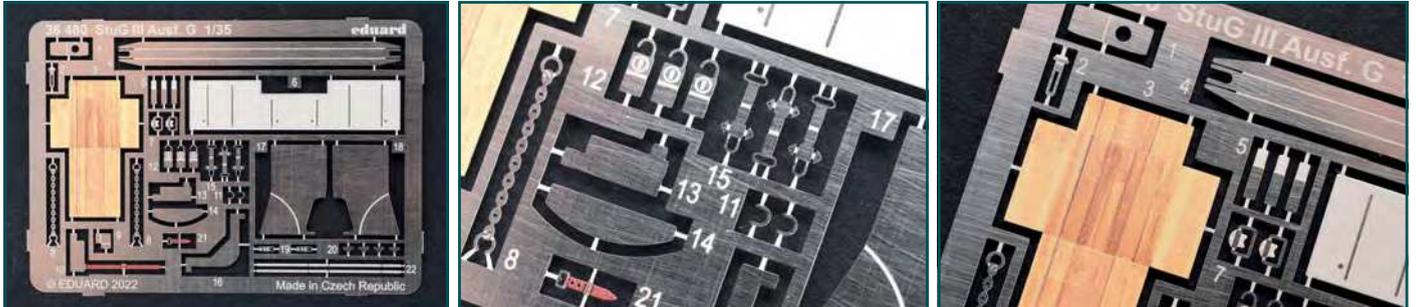
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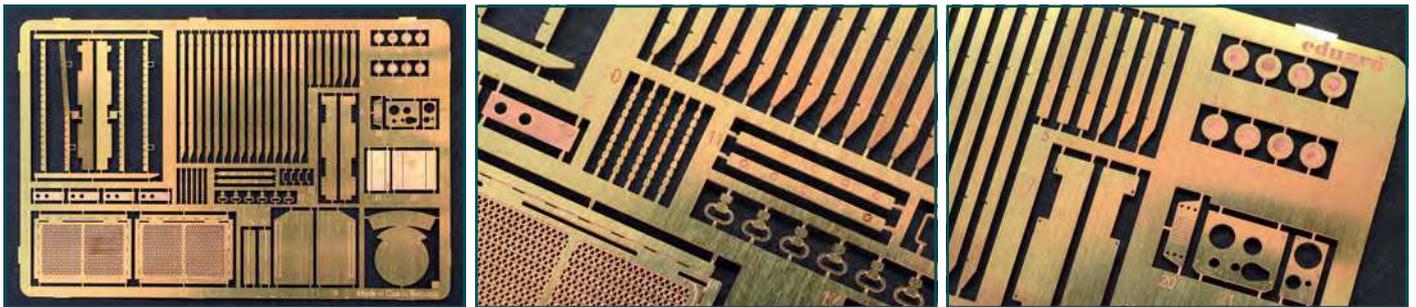
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36480



36482



# Accessories

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

653002



## EDUARD, CZECH REPUBLIC

[www.eduard.com](http://www.eduard.com) [www.creativemodels.co.uk](http://www.creativemodels.co.uk)

Eduard are perhaps best known for their detail upgrades and accessories for aircraft models, but they produce some very useful detail sets for armoured vehicles too, as we can see on the facing page. Tamiya's 1:35 M18 Hellcat and KV-2 kits get a handy frets of metal parts, as does Zvezda's excellent new T-62 and MiniArt's StuG.III Ausf.G. In 3D-print we have some amazing US Navy searchlights in 1:350, plus Navy-spec M2 Brownings in the same scale. More next month!

653004



### 1:35 PHOTO-ETCHED SETS

- KV-2 (36481) for Tamiya
- M18 Hellcat tank-destroyer (36478) for Tamiya
- T-62 (36476) for Zvezda
- StuG.III Ausf.G (36480) for MiniArt
- T-15 Armata w/57mm cannon (36482) for Zvezda

### 1:350 BRASSIN

- M2 Browning watercooled 3D-print (653002)
- USN searchlights 24 inch 3D-print (653004)

### 1:72 BRASSIN

- S-199 exhaust stacks 3D-print (672284) for Eduard

### 1:48 BRASSIN

- Z-126/226 skis 3D-print (648752) for Eduard
- M2 Browning w/handles for aircraft 3D-print (648751)

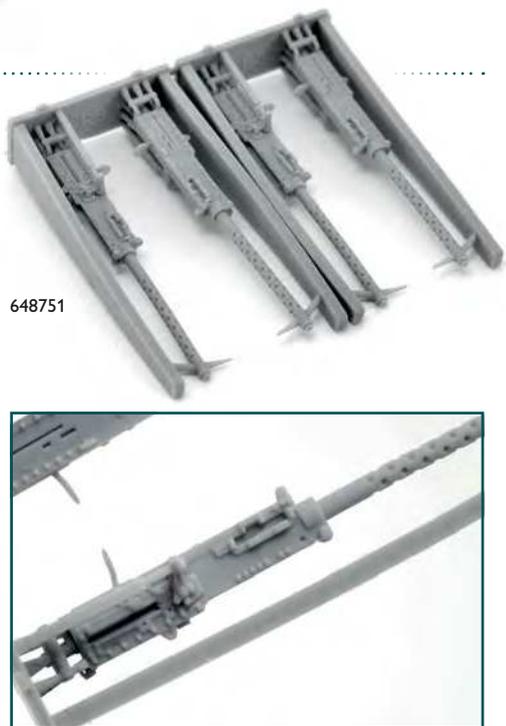
648752



672284



648751

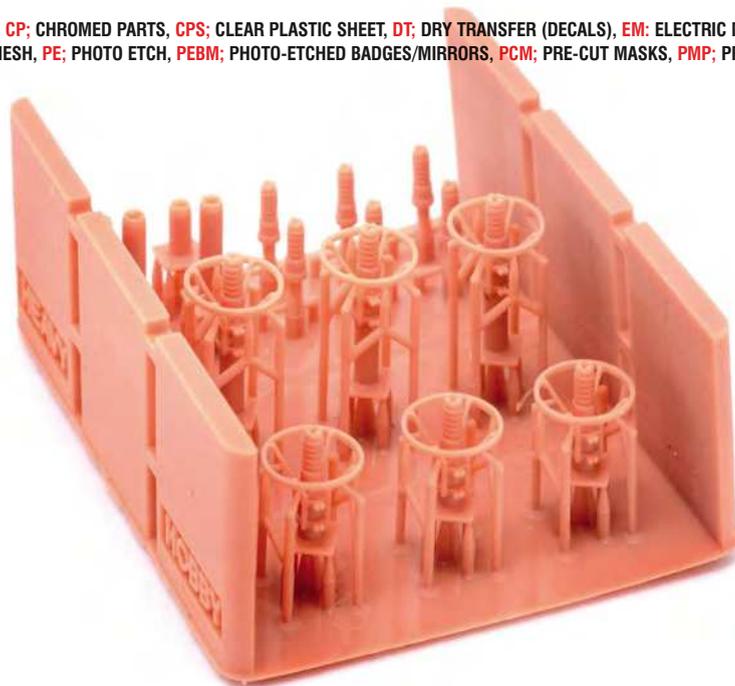


# New Releases

The latest photo-etched sets, resin parts, figures and accessories to enhance your scale models...

## What's in the box?

AD; ACETATE DIALS, CC; CAST CERAMIC (PLASTER), CMA; CAST METAL ALLOY, CP; CHROMED PARTS, CPS; CLEAR PLASTIC SHEET, DT; DRY TRANSFER (DECALS), EM; ELECTRIC MOTOR EPS; EXTRUDED ALLOY, MR; METAL ROD, MW; METAL WIRE, MT; METAL TUBING, NM; NYLON MESH, PE; PHOTO ETCH, PEBM; PHOTO-ETCHED BADGES/MIRRORS, PCM; PRE-CUT MASKS, PMP; PRE-ASSEMBLED METAL PARTS



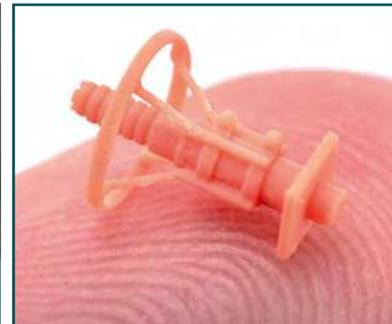
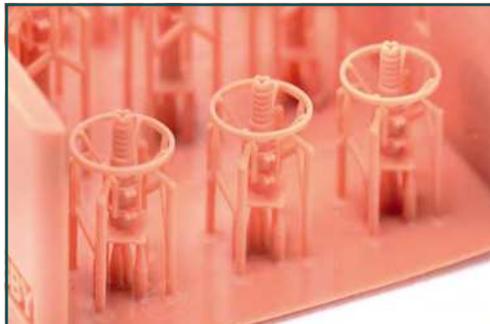
## HEAVY HOBBY, CHINA

[www.heavy-hobby.com](http://www.heavy-hobby.com)

With the imminent arrival of Tamiya's new 1:35 Comet tank, this pack of aerial bases is perfectly timed. This device is extremely difficult to depict in injection-moulded plastic thanks to its design, so 3D-print has proved to be the ideal medium. They are formed from a slightly flexible resin so they won't just shatter when you trim them from their printing supports. Thoughtful! More from Heavy Hobby next month.

### 1:35 3D-PRINTED ACCESSORIES

- WWII British Aerial Bases A (HH-35029)



## ICM, UKRAINE

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

The American Civil War is a fascinating subject but scale models of the soldiers and hardware rarely make it to the mainstream model kit realm, sadly. ICM are rectifying that with their figure sets, the newest being this four-man pack of Confederate infantry. Great animation and fantastic detail in the weapons and faces.

### 1:35 INJECTION-MOULDED FIGURES

- American Civil War Confederate Infantry Set 2 (35024)



# Accessories

PLASTIC SECTION, F; FABRIC, IM; INJECTION MOULDED (PLASTIC), ITL; INDIVIDUAL PARTS, PS; PAPER STRIP, R; RESIN, SVT; SOFT VINYL TYRES (OR...

LINK AND LENGTH TRACKS, MC; METAL CHAIN, MMA; MACHINED METAL WC; WOVEN CORD, WD; WATERSLIDE (DECALS), WS; WOODEN STRIP



## LIFECOLOR, ITALY

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

Lifecolor acrylics aren't just for airbrushing; they can be hand-painted too. This new set provides six colours from dark greens to pale tans that will be ideal for finishing your Deutsches Afrikakorps figurines of any scale. Top quality products from Italy.

## ACRYLIC PAINTS

- DAK Uniform Colors, German Military uniforms WWII Afrikakorps (CS58)

## EURODECALS, UK

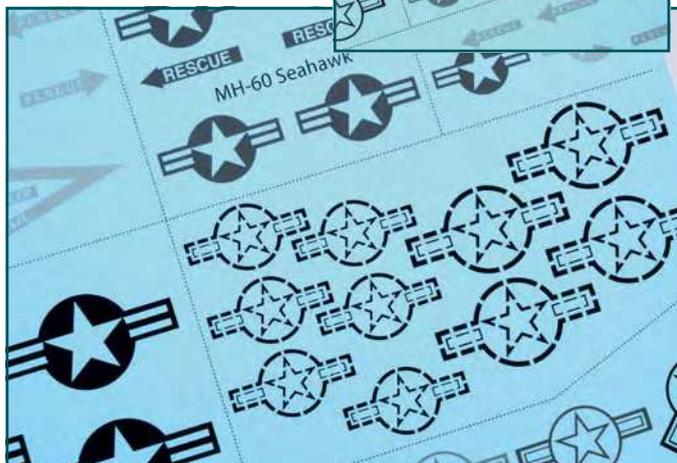
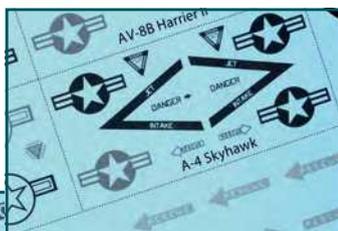
[www.fantasyprintshop.co.uk](http://www.fantasyprintshop.co.uk)

Covering a range of aircraft types including the F-14 Tomcat, F/A-18 Hornet, F-15E and C Eagle, AV-8B Harrier II, F-8J Crusader, A-4 Skyhawk, F-117 Nighthawk and V22 Osprey plus others, these beautifully printed national insignia, 'rescue' arrows and more will be a handy addition to one's decal-library.



## WATERSLIDE DECALS

- 1:32 Lo-Viz insignia and data USN/USMC/USAF X2 A4 sheets (ED-32114)



## HAULER

[www.hauler.cz](http://www.hauler.cz)

If you're planning a small-scale diorama depicting a farmers' uprising or perhaps just a peaceful, bucolic scene, these photo-etched brass pitchforks and rakes will be the ideal addition.

## 1:72 PE ACCESSORIES

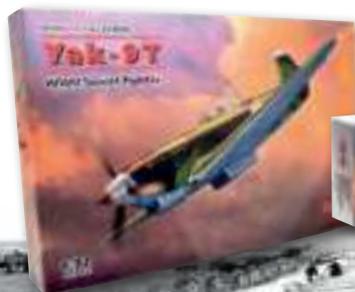
- Pitchforks and rakes (HLH72131)



## KIT PREVIEW

ICM 1:32 YAK 9T ● KIT NO.32090

Yakovlev Yak 9T, Belorussian Front, 8th June 1944



ICM also offer a set of acrylic paints for this kit



# YAK ATTACK!

ICM have kept calm and carried on, recently releasing their superb, all-new 1:32 Yak 9T kit to much acclaim

Yakovlev's Yak-9T fighter was one of the various modifications of this successful and prolific World War Two Soviet fighter aircraft. Its main feature was the addition of an NS-37 37mm automatic cannon, the longitudinal installation of which was somewhat like that of the heavy cannon in the Messerschmitt Bf109, forcing a number of crucial modifications to the base aircraft, most notably the strengthening of its engine-mounts. The huge 37mm gun significantly increased the range of fire without affecting accuracy and it could shoot shells with shrapnel rounds to hit enemy aircraft at a distance of up to 1,200 metres.

The gun could also be used against ground targets. Its armour-piercing projectile could penetrate armour up to 30mm thick, which allowed it to successfully destroy tanks. The Yak 9T was very popular with pilots; in total, from March 1943 to June

1945, 2,748 such fighters were produced. ICM has robustly continued production of scale models despite the continuing horrors in its home country of Ukraine and their 1:32 kit of the Yak 9T is a notable recent triumph. Spread over just five sprues of grey polystyrene (plus one in clear) the kit is not an intimidating prospect, but despite the sensible parts-count, it is not a simplified production either, rather one that's well designed and planned to come together in days and weeks, rather than months and months.

A detailed engine is provided and the modeller can choose whether to have it on full display with cowlings off (extra detail parts are provided for this), or closed up, with cowlings cemented in place. The engine block will still need to be installed for the latter mode as it carries the gearbox and propeller mount.

The cockpit builds up from side frames to which consoles are fitted, the floor coming into play later when the

assembled wings are mated to the fuselage. Detail in here is excellent leaving the modeller to source just the pilot's seat-harnesses to complete the job. The instrument panel is a moulded part with nicely printed decals for the dials, more than adequate.

Markings to finish one of four Soviet Air Force Yaks are provided, one camouflaged in green and dark green with blue/grey undersides and the other three in neutral grey and dark grey uppers with the same blue/grey undersurfaces; all with bold red star national insignia of course, plus some propaganda slogans thrown in for good measure. Great surface detail, an approachable parts-count and a price-point of around £45 to £50 makes this an extremely attractive prospect. Given that the manufacturer is also under attack in the 'real world', it's a highly commendable achievement all around. ●

### AVAILABILITY

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

[www.hannants.co.uk](http://www.hannants.co.uk)



**Amusing Hobby (35A027)** - In stock now  
1/35 FV 214 Conqueror MK II British Army Tank - **£49.99**



**Rye Field Model (RM-5022)** - Pre-Order  
1/35 Panther G Interior kit with cut open parts NEW - **£74.99**



**Beemax Models (B24017)** - In stock now  
1/24 AUDI Quattro S1 1985 MONTECARLO RALLY - **£38.99**



**Rye Field Model (RM-5019)** - Pre-Order - 1/35 Jagdpanther G2 full interior & workable track links First issue will come with Resin Tank Commander NEW - **£74.99**



**Zoukei Mura (SWS48-08)** - In stock now  
F4J Phantom II USMC - **£69.95**



**Modelcollect (UA72200)** - Pre-Order  
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ED PLASTIC SECTION, F: FABRIC, IM: INJECTION MOULDED (PLASTIC), ITL: INDIVIDUAL TRACK LINKS, LC: LIQUID CEMENT, LCC: LASER CUT CARD, LLT: LINK AND LENGTH TRACKS, MC: METAL CHAIN, MMA: MACHINED METAL PARTS), PS: PAPER STRIP, R: RESIN, SVT: SOFT VINYL TYRES (OR TUBING), VE: VINYL FIGURES, VEP: VACUUM FORMED (PLASTIC), WC: WOVEN CORD, WD: WATERSLIDE (DECALS), WS: WOODEN STRIP



## TAMIYA, JAPAN NISSAN FAIRLADY 280Z T-BAR ROOF

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

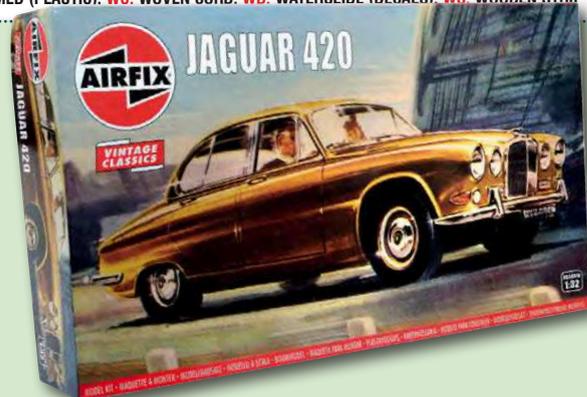
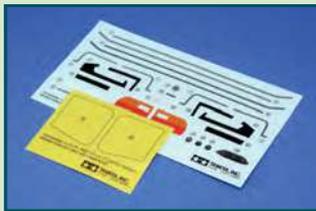
SCALE: 1:24 • MATERIALS: IM, SVT, WS • ITEM NO.24015

Since the release of the inaugural (S30) model in 1969, the Fairlady Z sports car has enjoyed consistent popularity. In 1978, it was time for a full model change with the introduction of the second (S130) generation car, which inherited

the base long-nose, short-deck form of its predecessors but took it much further with updated aerodynamics, a semi-trailing rear arm suspension setup, disc brakes on all four wheels, and much more ([tamiya.com](http://tamiya.com)). This kit is on re-release, with some useful goodies now to be found within the box, mainly the pre-cut masks for the T-bar roof's clear panels and freshly printed decals, the latter providing pinstripes, badges and rear light cluster markings should you choose not to paint these parts. The bodyshell is the 1981 T-bar style item which comes with the bonnet moulded in place, only held there by a very thin web of plastic that can be easily cut through from behind, to free up this part. This is important because the kit comes with a very neat replica of the straight-six 2.7 litre engine – the upper parts at least, to make room for the steerable front wheels below – plus firewall, radiator, fan, brake master-cylinder, battery and more, all beautifully detailed. The cabin features a righthand-drive dashboard with decals for the instrument faces and a pair of shapely racing seats, on one of which sits a rather lovely driver figure in full racing suit, four-point harness and a groovy '70s haircut! Given the base kit's 1978 origins, it still looks fresh as a daisy and is an ideal display-case partner for the 2021 new-tool 240ZG kit.

**TMMI**

-  A Japanese classic with fabulous 1970s lines and wonderful detail inside and out
-  Bright chrome wheels might need toning down to create that '70s satin-look



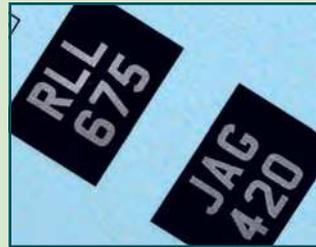
## AIRFIX, UK JAGUAR 420

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

SCALE: 1:32 • MATERIALS: IM, WS • ITEM NO.A03401V

As far as stone-cold classics go, Airfix's late-sixties 1:32 Jaguar 420 must be high up in the rankings. Released when TMMI's Editor was just two years old (bless), this model comes from a golden age of plastic modelling and it shows in the kit parts here, which were ahead of their time in terms of detail and accuracy. More than half a century later and the sprues look a little dated, but not as much as you might think and with planning, a methodical, patient approach plus some modern paints and glues, the model will build into a handsome replica of Jaguar's big 1968, 4.2-litre beast. The box includes parts for that massive inline-six engine and gearbox, replete with fan belts, cooling fan, individual rocker-covers, sump and exhaust manifold. The interior is outfitted with lovely reproductions of the vast, ribbed leather seats and you even get a driver figure wearing a 'whistle and flute', perhaps to depict a chauffeur? Or maybe a get-away driver... Underneath, we have a remarkably well-detailed suspension, drivetrain, twin exhausts and kit-plastic tyres, the latter being far better than vinyl. The only parts that might need a little work are the windows and windscreens which are slightly thick and ripply. A few minutes with some Micro Mesh, polishing compounds a dip in Johnson's Klear will sort that out. A fabulous little model that with some tender loving care, will look absolutely lovely. **TMMI**

-  An Airfix classic of this big British bruiser. Tons of detail
-  A little more work than usual required, but that's the fun part, surely?



# New Releases

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

**What's in the box:** METAL ALLOY, CP; CHROMED P  
ON MESH, PB; PAINT BRUSH, PCM;



## ICM, UKRAINE

### GOTHA GO242B WWII GERMAN GLIDER

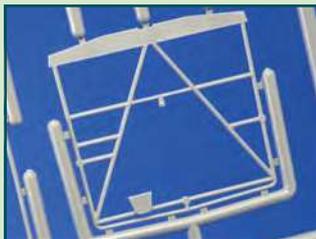
[www.icm.com.ua](http://www.icm.com.ua) [www.hannants.co.uk](http://www.hannants.co.uk)

SCALE: 1:48 • MATERIALS: IM, WS • ITEM NO.48225

The Gotha Go242 was a transport glider used by the Luftwaffe during World War II, its multiple variants seeing limited combat action. The Reichsluftfahrtministerium (RLM) required a heavy transport glider to replace the DFS230 then in service, capable of carrying twenty fully laden troops or the equivalent in equipment. Cargo versions featured a hinged rear fuselage and loading ramp that could accommodate a Kübelwagen or loads of similar size and weight. Go242s were hauled into the air by Heinkel He111s or Junkers Ju52s and were occasionally fitted with RATO (Rocket Assisted Take Off) equipment. Most saw service in the Mediterranean and North African theatres of operation. ICM's new 1:48 kit appears to depict the B-2 variant specifically, a troop-carrier with improved undercarriage. It's a spectacular production and exactly the type of slightly left-field subject that ICM's bold and imaginative planners would take on. And we are grateful for that! It comes in a large box filled with nine sprues of varying size in grey polystyrene, plus a clear sprue for the canopy and windows. Decals are provided to complete one of two aircraft, both in green/grey splinter camouflage over light blue undersurfaces. A good chunk of construction is concerned with the crew compartment which is an impressive structure of tubular framework and a full set of seats for a complement of Fallschirmjäger (not included!). As with the real thing (and, seemingly, most military gliders) the cockpit is very basic, which is accurate; just seat harnesses need adding by the modeller. A large model will result, making a pleasingly unusual addition to one's display cabinet. **TMMI**

**+** Very interesting subject, tons of detail

**-** Aftermarket seat harnesses required



## ICM, UKRAINE

### TU-2T SOVIET TORPEDO PLANE

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

SCALE: 1:72 • MATERIALS: IM, WS • ITEM NO.72030

The Tupolev Tu-2 was a twin-engine, Soviet high-speed daylight and frontline bomber aircraft from World War II. It was designed to meet a requirement for a high-speed bomber or dive-bomber with a large internal bomb-load and speed similar to that of a single-seat fighter. Designed to challenge the German Junkers Ju88, the Tu-2 proved comparable and was produced in torpedo, interceptor, and reconnaissance versions. Built from 1941 to 1948, the Tu-2 was one of the most outstanding combat aircraft of World War II and it played a key role in the Red Army's final offensives. (Wikipedia). If this kit demonstrates anything, it is to show how far ICM have come in the twenty-five years since its original release, in 1997. This is not to say that this model is somehow inferior, far from it, but the company's more recent models appear slicker and free from flash when viewed in unbuilt form. A close look at the fuselage and wing parts of this Tupolev on the sprues, however, reveals some extremely sophisticated surface detail on the airframe in the form of rows of exquisitely restrained rivets and panel lines that will look wonderful under paint and weathering. The box provides a pair of torpedoes to create this version and they look like newer toolings, more in line with the current style of ICM releases. Decals are provided to complete one of three machines; two Second World War Soviet aircraft operating in the Black Sea and Pacific theatres respectively and one post-war Tu-2T of the Bulgarian Air Force Mine Torpedo Aviation Regiment, 1950. **TMMI**

**+** An older kit, but with a little extra clean-up work it will shine

**-** Some flash here and there, but easily dealt with



ED PLASTIC SECT  
METAL PARTS), I



## ITALERI, ITALY SCANIA S730 HIGHLINE 4X2

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

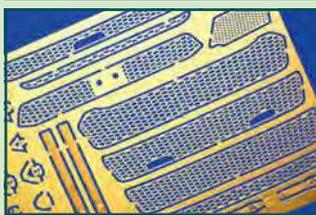
SCALE: 1:24 • MATERIALS: IM, SVT, PE, WS • ITEM NO.3927

The Scania S series – a key player in the industrial and heavy commercial vehicles market – has been designed to meet long-range logistics and transportation needs. The new S series was introduced by the famous Scandinavian manufacturer to the market in 2016

and included new innovative solutions. Design features were incorporated to optimise the use of the space inside the cabin to enhance driver comfort and greater attention was given to modern 'active and passive' safety systems to aid driver control and overall vehicle management ([italeri.com](http://italeri.com)). This stunning new release in 1:24 provides a decal sheet for the Scania V8 50th Anniversary special edition, taking the form of large but subtle 'V8' graphics in pale metallic yellow to adorn the cabin sides and further iconography to celebrate the 1969 to 2019 anniversary of this powerplant in Scania trucks. Italeri is extremely skilled at making eye-catching truck models and this is no exception, providing the modeller with a small mountain of parts in black, light grey, yellow and clear polystyrene to enjoy. In the box this time you will also find a fantastic photo-etched brass fret that carries the grilles for that sit in front of the radiator and when painted satin black they will contrast crisply with the bright metallic yellow that the bodywork must be painted in. Also on the fret are badges which can simply be polished up, lacquered and fitted to the exterior. The huge 'SCANIA' logo below the windscreen is taken care of by self-adhesive letter-stickers and these will need accurate application to so as not to spoil the finish. They have the potential to look amazing! **TMMI**

**+** Masses of detail inside and out, excellent photo-etched parts

**-** The metallic yellow paint might need to mixed specially



CEMENT, LCC; LA  
CUUM FORMED (P

MA; MACHINED  
N STRIP



## MINIART, UKRAINE G7117 1.5T 4X4 CARGO TRUCK W/WINCH

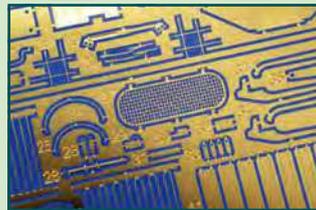
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)

SCALE: 1:35 • MATERIALS: IM, PE, WS • ITEM NO.35389

No less than twenty-six sprues of grey polystyrene go into this model, plus one in clear for the windows and headlights, one fret of photo-etched brass packed with fine detail parts and a sheet of decals for four markings-options. To be clear, some of the grey sprues are large and some carry just a handful of small parts, but it is still a comprehensive treatment for this handsome World War Two US truck. The drivetrain is represented in full here by MiniArt, the live axles even having their own U-bolts to fix them to their respective leaf springs. If you love rugged trucks of traditional layout you will take great satisfaction when building this model, it's just like the real thing; all that's missing as the brake-lines. A beautiful rendition of the straight-six engine is provided too, and with the strategic placement of ignition leads, battery cables and the like it will look fantastic with the bonnet left in the up position, an option catered for by the inclusion of a support arm in photo-etched brass. Talking of which, the all-important delicacy of the grille and headlight guards is preserved by having them formed from the same photo-etched medium. Moulded formers are provided on which to fold and build these sub-assemblies and if done with care, they will create a delicious scale-look to the completed model. Markings are supplied to complete one of a quartet of very international users; two from the Brazilian Expeditionary Force, Italy 1945 (olive drab), one Red Army machine in Germany (olive drab), 1945 and in this reviewer's opinion, the most attractive, a US Navy vehicle, 1944, in mid-grey. A stunning 1:35 replica. **TMMI**

**+** Engine, chassis, drivetrain, suspension and cabin all depicted in full

**-** Little to find fault with here, it's a very impressive production



A selection

and more!

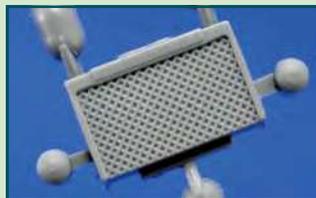
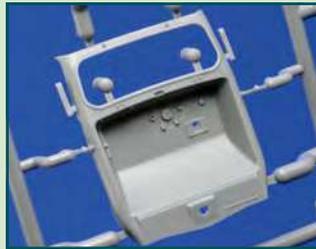


## MINIART, UKRAINE TEMPO A400 LIEFERWAGEN GERMAN 3-WHEEL DELIVERY VAN

[www.creativemodels.co.uk](http://www.creativemodels.co.uk)

SCALE: 1:35 • MATERIALS: IM, PE, WS • ITEM NO.35382

Tempo (also known as Vidal & Sohn Tempo-Werke GmbH), was a German automobile manufacturer based in Hamburg, founded by Oscar Vidal in 1924. The company was well known in Germany, producing popular vans like the Matador and the Hanseat. Tempo also produced small military vehicles during the 1930s and 1940s. (Wikipedia). It is one of the latter machines that forms the subject matter of MiniArt's 1:35 Temp A400 'Lieferwagen' (delivery truck) which was issued towards the end of 2021. The vehicle was used by several Third Reich services in the years leading up to and during the Second World War, including the Ordnungspolizei (military police force in Nazi Germany), Deutsche Reichsbahn (German National Railway), Deutsche Rotes Kreuz (German Red Cross) and Deutsche Reichspost (German Postal Service) and decals are provided for all these options in the kit. Just six sprues of grey plastic and one in clear make up the model, most unlike MiniArt! It is only a small vehicle after all. But that but no way means it's a simplified in any way; we are treated to extensive underpinnings detail such as the A-frame rear suspension with guidance on how to fit brake-lines (their brackets are supplied in PE brass) which is terrific attention to detail. The Tempo A400 had a little front-mounted, two-cylinder engine which drove the single front wheel and all of this is included, building up into a wonderful power-pack sub-assembly that fixes to the front of the vehicle once complete. The cabin comes with a full set of foot pedals, levers and under-seat battery, and the windscreen is treated to photo-etched wipers. Marvellous! **TMMI**



- + A wonderfully quirky subject choice, packed with detail
- Nothing negative to say about this kit



## REVELL, EUROPE BOBA FETT'S STARSHIP

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

SCALE: 1:88 • MATERIALS: IM, WS • ITEM NO.06785

Revell's large, end-opening box disgorges just eight modest sprues of grey plastic plus one in clear which would have fitted into a carton half its size, but don't let that put you off, because this is an excellent model of what most Star Wars fans will know as 'Slave One' but named here as just 'Bobba Fett's Starship' from the eponymous Disney+TV series. It's scaled to the curious ratio of 1:88 (the only kit ever in this scale?) but again, once you have taken a close look at the parts you will see some very nicely executed surface detail, particularly on the oval-shaped back plate and 'tail' where the loading ramp (moulded shut) is located. Construction begins with the engines, which build up from two halves plus a central dome which allows the latter part to be finished in a suitably funky jet engine colour (fluorescent orange?) or just in boring old dark grey as suggested, if you prefer. The 'wings' assemble from two halves each and again, carry some neatly angular detailing. They attach to a central spar that allows them to rotate as the ship rights itself when preparing for flight, a nice touch. The cockpit is full of raised pipes, control panels and the like which belie the fat that it comprises just four parts, including a little Bobba Fett figure which we promptly lost when opening the box. Five decal segments are provided for his control panel which add some sparkle. The moral of this story is, don't be put off by an apparently small kit in a standard-sized box, because this one is a little beauty! **TMMI**



- + Simple construction but packed with detail
- Don't lose your Bobba Fett figure when opening the packaging!

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**Alex Roughsedge** builds a brace of Eduard's 1:48 Spitfire Mk.Vc 'Trops', finishing them as Italian and USAAF machines

# TROPICAL TWINS!



**A**s a modeller, it's exceptionally rare for me to ever build more than one example of a specific kit. In fact, I rarely even build two of the same aircraft, full stop. I can't help but think it a testament to just how good Eduard's 1:48 Spitfires are that I've actually built seven of the things!

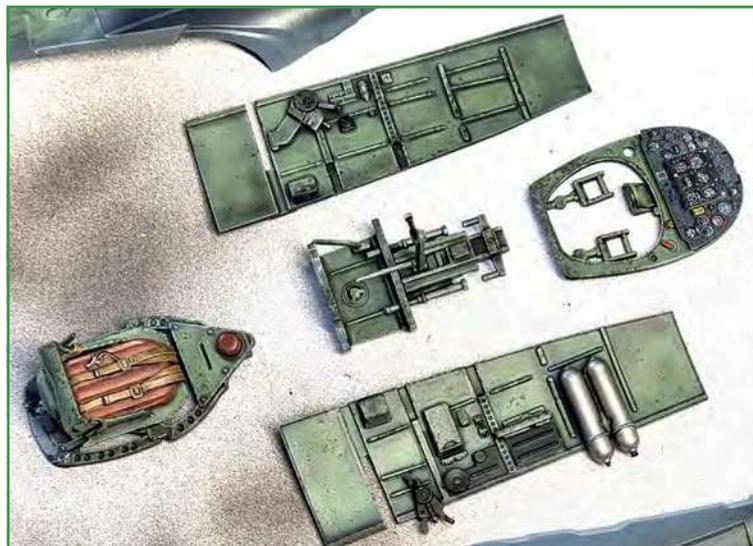
The kits themselves are well thought out, stunningly detailed straight out of the box, easy to assemble and, most importantly for me, contain a relatively low parts-count. Assembly being my least favourite part of a build (stemming mainly from laziness!), the fact that I can pretty much put one of

these together in a couple of evenings is almost enough of a reason on its own to keep me coming back for more.

This particular pair were both built in tandem using the Mk.Vc/Vc Trop Overtree boxing of the kit (82158X), overtrees being Eduard's way of offering solely the plastic parts for sale, excluding the decals, photo-etch, masks, even instructions, that would usually come with the standard boxing. I picked up a few from Eduard's online store during their Post 'Vegas Nats sale back in 2021 for something ridiculous like £8 each. How they can churn out kits this good for that price baffles me!

## BUY THOSE EXTRAS!

Over the last few years, it's become almost inevitable when I purchase a kit that I immediately jump on the internet and begin trawling for any aftermarket parts, decal schemes etc that may be available, so the fact that these kits were sans decals was a bonus.



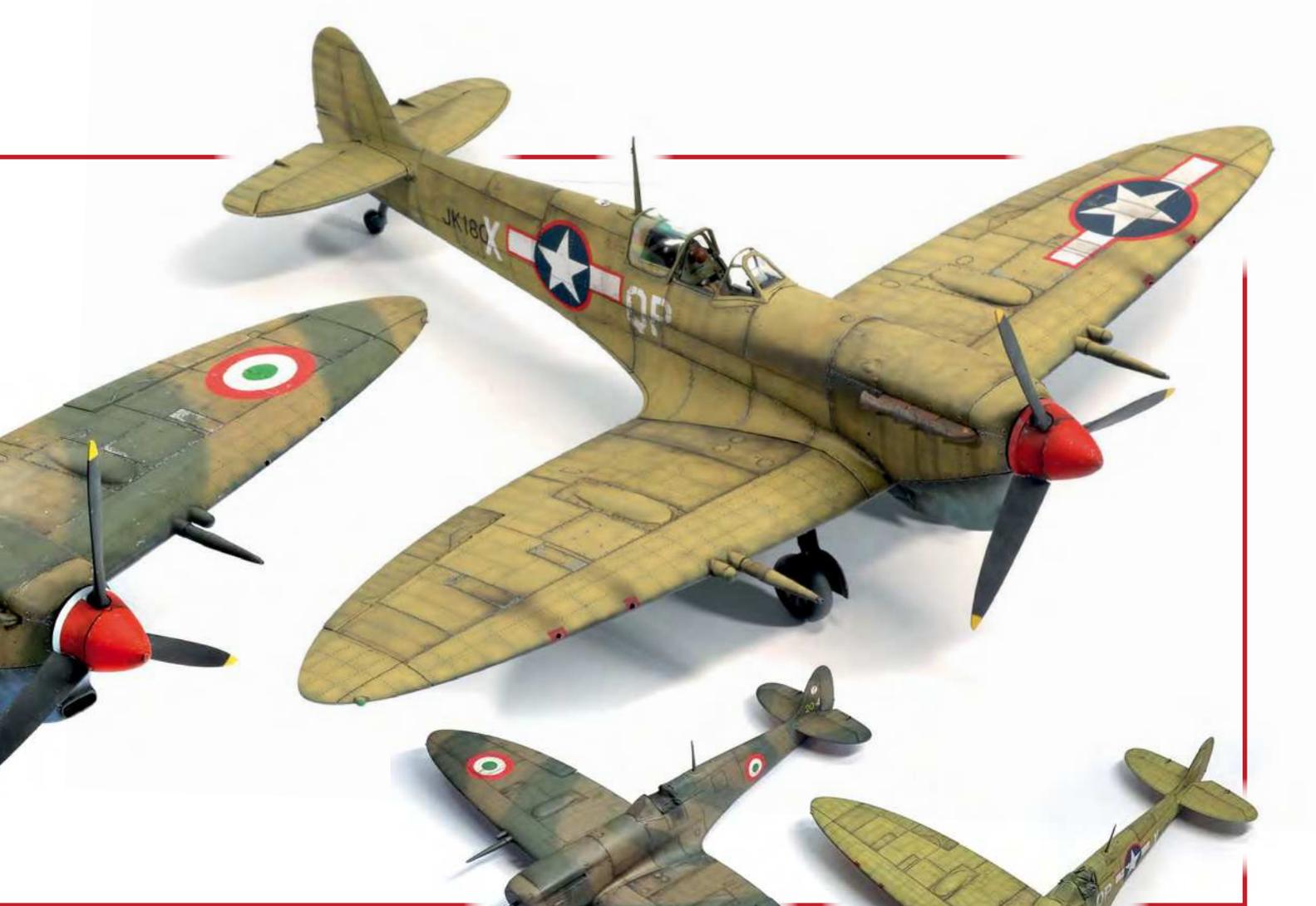
While a good chunk of the cockpit can be assembled prior to painting, the parts breakdown makes it a breeze to leave sub assemblies detached for ease of access

The kit parts come together to form a beautifully detail 'pit straight from the box, with the Yahu instrument panel being the cherry on top



The Quickboost resin seat makes a cheap, effective addition to the cockpit, and avoids any of that messing around with fiddly photo etch seatbelts





They really don't need much in the way of aftermarket, in fact all I added to these two was a pre-painted instrument panel from Yahu (YMA4803), and a Quickboost resin seat (QB48401). Harking back to my aforementioned 'Modellers' Laziness Syndrome', both of these are a nice little timesaver – the instrument panel being far better than anything I could hope to paint myself, and the seat saving the laborious task of assembling photo-etch belts.

I'm sure you'll be pleased to know that assembly begins predictably with the cockpit. There are a decent number of parts which come together to form a nicely busy office, all of which fits together very well. I usually start any

Both models await final assembly. Comparing this shot with the final photos shows how effective the silver pencil chipping is at adding detail to the surface

build by getting as many parts off the sprues and glued together as I can before laying down any paint, so most of the cockpits were assembled prior to a quick spritz of Mr Surfacer 1500 Black, my preferred primer for almost any situation. The cockpit green was applied next in the form of Mr Color C364, a decent approximation to the many varied shades of BS283.

Once dry, I gave the entire thing a heavy drybrush of Vallejo Model Air 71.305 Int. Grey Green, a lighter shade than the base colour. After that it was just a case of picking out a few bits by

hand in various acrylics, plus some light sponge chipping with a very dark brown.

After a blast of Mr Color GX112 gloss varnish, I applied a wash to the whole assembly made up of black and brown washes from The Army Painter, mixed with Johnsons Klear. This gives a bold, but not overpowering shade to and nooks and crevices, while also adding a bit of general grubbiness. VMS Satin Varnish thinned with around 70%-80% Mr Levelling Thinner applied heavily by airbrush finished the area off superbly with a smooth matt coat. ▶



A block of Styrofoam and a couple of cocktail sticks makes a decent DIY drying stand



The main gear looks excellent after a quick enamel wash over the bare metal finish



The five-spoke kit wheels seen here look rather effective after a bit of enamel dust is added to the matt tyre surface



● **FAST BUILD**

With the cockpit complete, construction continues at a lightning pace. The two upper and single lower wing sections flop together with ease, sandwiching the multi-part main gear wells inside. Likewise, the fuselage halves can now be joined, not forgetting to pop the tail wheel brace in the rear section. With some care, the fuselage can be assembled with the absolute minimum of seam lines, the only area needing major attention being the underside immediately aft of the wings. The rest

was seen to with just a few swipes of a sanding stick.

The leading-edge fillets are separate parts, however these fit to the fuselage like a dream, and the entire wing section simply clips up from below. I elected to glue the rudder in place at this point, along with the horizontal stabilisers. Again, fit is sublime.

The front and rear canopy sections were also popped in place once I was happy with the fuselage seams, with a strip of Tamiya tape in between and the 'closed' door part to mask off the

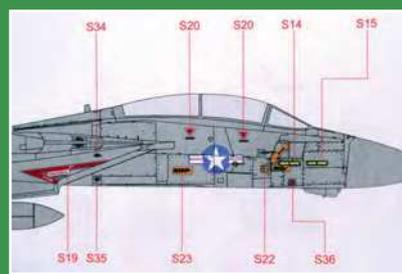
cockpit interior. Eduard's TFace mask set (EX797) was used to mask the clear parts themselves, although a tad pricy compared to other manufacturer's alternatives, this was the only one available at the time of building, and it of course fits perfectly.

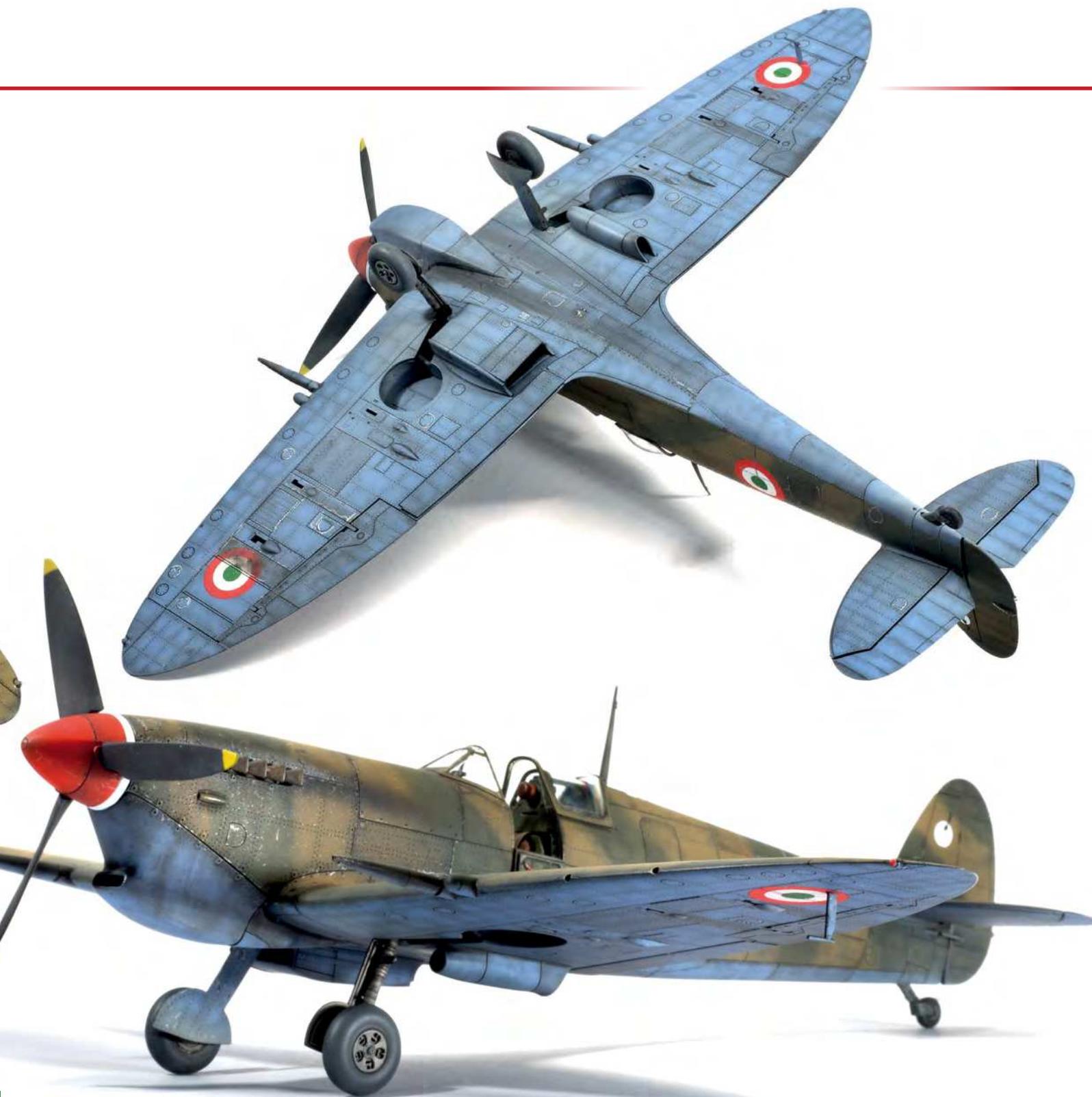
Both airframes were given a base coat of black Mr Surfacer to facilitate the black basing technique I've become rather fond of over the last few years. Beginning with the undersides, C370 Azure Blue was applied to the Italian

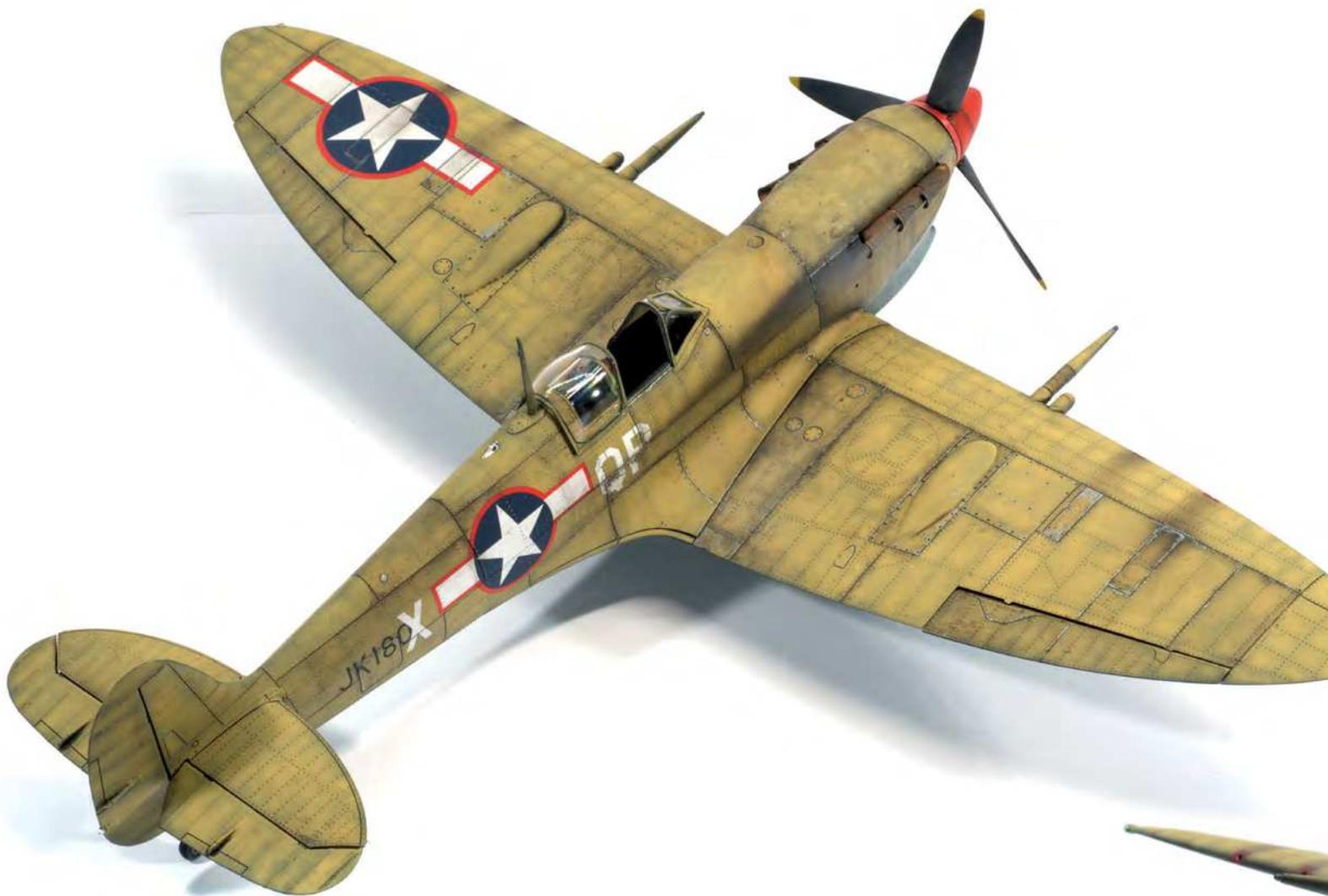
**Mini Review...**

EDUARD 1:48 F-14 STENCILS (D48099) FOR TAMIYA AND AMK  
[www.eduard.com](http://www.eduard.com)  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)

With Tamiya and AMK's stunning 1:48 F-14 Tomcats 'out there' there is always an appetite for extras and add-ons. Eduard head the call with this set of 'hi-viz' and 'lo-viz' data stencil decals. Highly useful for taking your Tomcat just that little bit further...







**“I had such a blast building these two that I almost immediately set about building a further Mk.Vc, Mk.Vb and a Mk.IXc which were just as much fun...”**

bird, with the yankee getting a very light mix of C115 RLM65. The Italian camo was applied freehand using C369 Dark Earth and C361 Dark Green and the USAAF plane again getting a lightened mix based on C021 Middle Stone. Some minimal post-shading was applied to each model with lightened variants of the base colours, although with the black basing method, this step is almost superfluous.

#### DECAL TIME!

After a good few wet coats of gloss varnish to get everything sealed in, decals from the superb Xtradecal set X48217 were applied and bedded in using VMS decal solutions. A second gloss coat, followed by a panel line wash with Flory Models Dark Dirt makes a nice base for further weathering with oils and Wilder acrylic dust and dirt effects.

After a good coat of VMS Satin

Varnish left to cure overnight, small chips and scuffs were added with a Prismacolor silver pencil, a deceptively easy way of adding convincing chips to panel lines and wing roots. The penultimate task is to fit the remaining parts to both models using superglue sparingly, and then unmask the cockpits. Finally, some subtle exhaust staining was added using the airbrush with various black and dark brown mixes, building up the effect in a multiple passes.

#### FINAL THOUGHTS

I had such a blast building these two that I almost immediately set about building a further Mk.Vc, Mk.Vb and a Mk.IXc which were just as much fun. At the time of writing, I've also just picked up a Mk.XVI bubbletop in the latest of Eduard's frankly dangerous 20% off sales so I expect it won't be too much longer until I build my 8th! ●

#### TECHSPEC...

EDUARD 1:48 SPITFIRE MK.VC/VC TROP OVERTREE BOXING KIT NO. 82158X (x2)

#### Materials:

Injection-moulded polystyrene

#### Paints used:

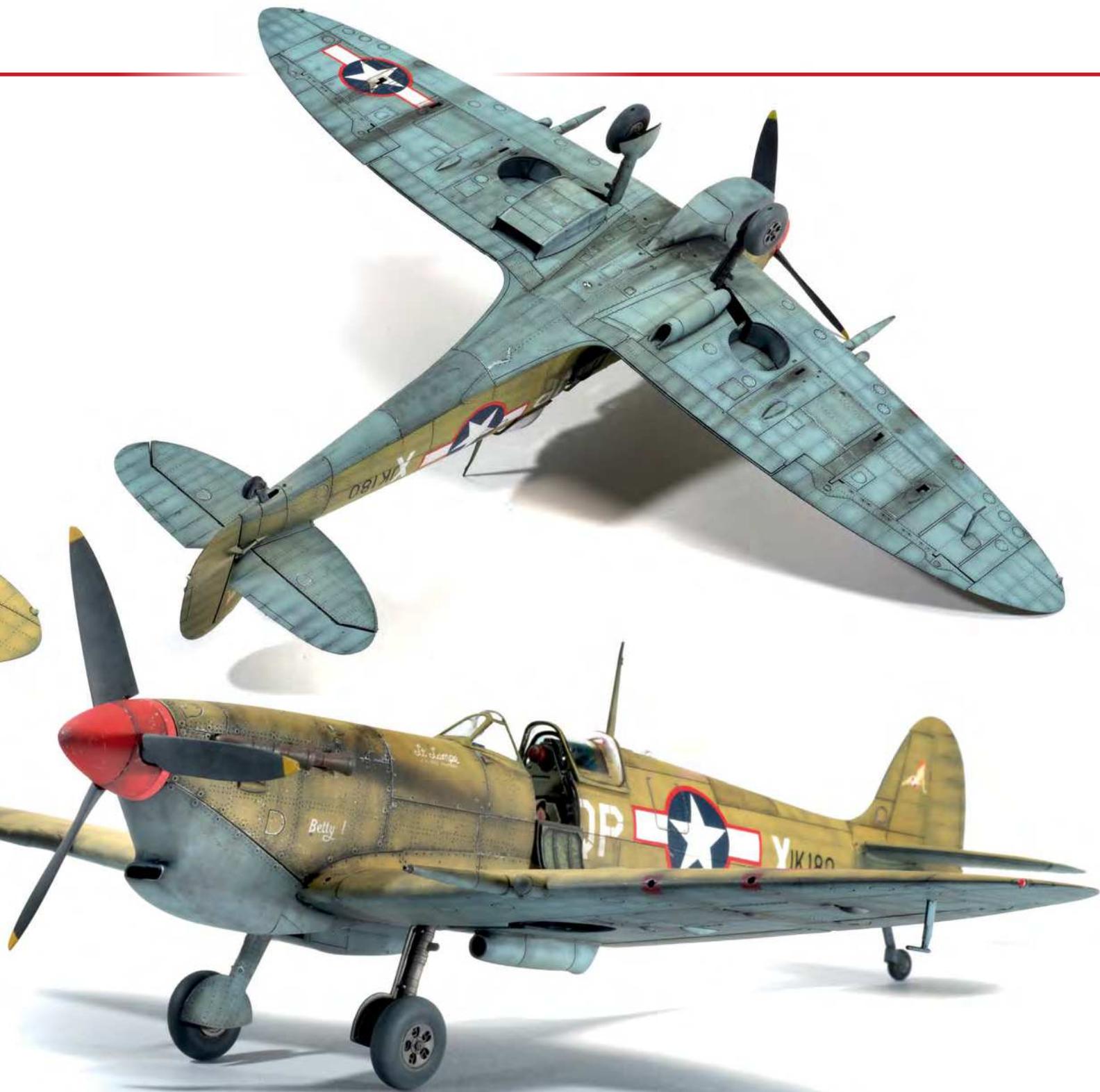
- Mr Color: C364, C370 Azure Blue, C115 RLM65, C369 Dark Earth, C361 Dark Green, C021 Middle Stone, GX112 gloss varnish, Mr Surfacer 1500 Black
- Vallejo Model Air: 71.305 Int. Grey Green,
- VMS: Satin Varnish, decal solutions
- Flory Models: Dark Dirt

#### Accessories used:

- Yahu: instrument panels (YMA4803)
- Quickboost: resin seat (QB48401)
- Eduard: TFace mask set (EX797)
- Xtradecal: (X48217)

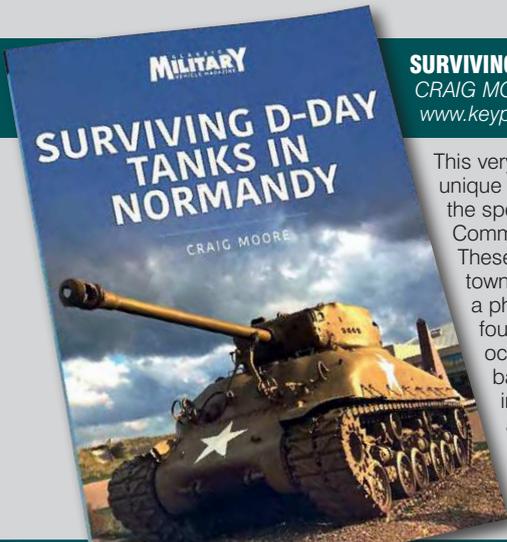
#### Availability:

- Eduard models and accessories are widely available from good model shops and online. [www.creativemodels.co.uk](http://www.creativemodels.co.uk) [www.eduard.com](http://www.eduard.com)
- Flory Models: [www.florymodels.org](http://www.florymodels.org)
- Mr Color: [www.hiroboy.com](http://www.hiroboy.com)
- Quickboost: [www.quickboost.net](http://www.quickboost.net)
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# Book Reviews

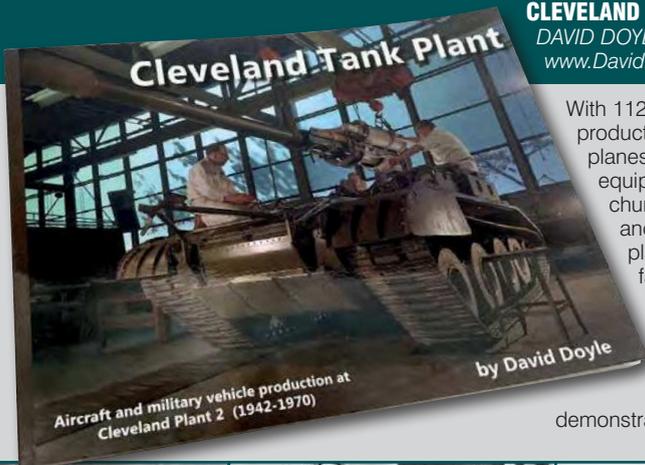
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## SURVIVING D-DAY TANKS IN NORMANDY

CRAIG MOORE  
www.keypublishing.com

This very unusual book tackles the subject of military vehicles in Normandy in a rather unique way. The 112-page book begins with a description of the D-Day landings and the specialised vehicles employed by the Allies, followed by very simplified maps of the Commonwealth and American beaches, with the locations of preserved vehicles marked. These vehicles are a mixed bag of museum specimens, roadside monuments and town displays. The history of each vehicle is then dealt with as a separate entry, giving a photo, basic details of the vehicle, and a history of the particular tank. Altogether, forty-seven vehicles are given this treatment, overwhelmingly Allied tanks with the occasional German example. These include some vehicles that were not part of the battle (as in the G13 'Hetzer') but the coverage does also include some turrets used in static defence. For anyone travelling to the Normandy area, this book is invaluable as a quick guide to what can be seen on a visit. The fact that the book gives a little history to each vehicle is particularly useful, not only to bring the vehicles to life, but also to identify those which have been creatively restored or brought into the area, rather than being genuine relics of the savage battles in the bocage. **CLS**



## CLEVELAND TANK PLANT

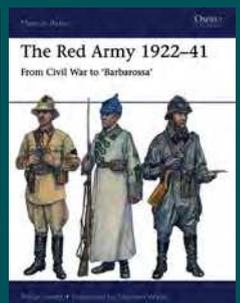
DAVID DOYLE  
www.DavidDoyleBooks.com

With 112 pages, this A4 landscape book covers aircraft and military vehicle production 1942-1970 at the huge Plant 2 in Cleveland. Each of the vehicles and planes is shown in very clear photos, illustrating the assembly and service of the equipment. The gigantic factory was built specifically for war production, and churned out an astonishing number of items, from experimental XP-75 fighters and Superfortresses, before switching to tanks in the post-war period. The plant initially manufactured M41 Walker Bulldog and M42 Duster tanks. The factory moved on to M56 Scorpion, M108, M109, M114 and M551 Sheridan and finally the MBT-70. The last part of the book covers the use of the vehicles in service, using many colour photos to really show what these armoured vehicles looked like in the field. This book is very unusual for looking at the range of production from a single factory complex, rather than concentrating on a particular vehicle or aircraft, but this approach demonstrates clearly the varied output through an incredible series of photos. **CLS**



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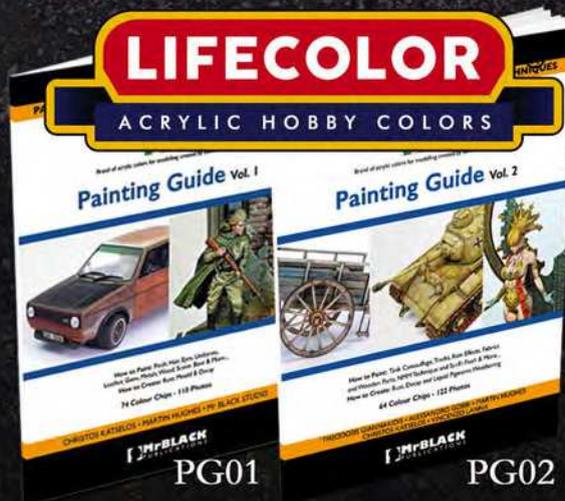
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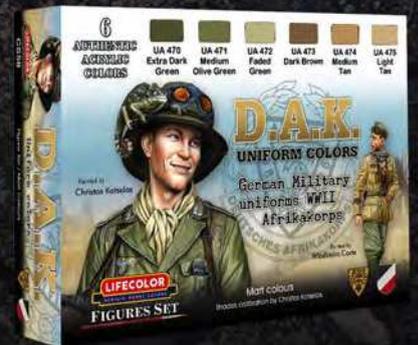
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# NEXT ISSUE

The next issue of TMMI is October 2022 (No.324), on sale 15th September



## TIGER TALES

Up-detailing Tamiya's 1:48 Tiger I Early Production (Eastern Front)



## PATIENCE IS A VIRTUE

Tamiya's 1:48 P-51B Mustang with D-Day stripes



## WE'RE GONNA NEED A BIGGER CHOPPER...

Okay, so it's a misquote from the first Jaws film, but check out this spectacular Jaws 2 diorama next issue!

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

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

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

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# The Editor's Page...

It was the dark of the moon, on the sixth of June, in a Scania, pullin' logs...

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1:14 RC Truck Series Scania 770S 6x4No.68, 56368



We don't tend to include many radio controlled models in TMMI, which is a shame really, because Tamiya offers a vast range of stunning models in this medium, the 1:14 RC Truck Series in particular..

## 'COZ WE GOT A LITTLE 'OLE CONVOY, ROCKIN' THROUGH THE NIGHT!

**T**he latest to join the line-up is the Scania 770S 6x4 tractor unit and it is a marvel of miniature engineering. The kit features a full, three-speed gearbox, working differentials, leaf-spring suspension and dampers. There's a ton of optional upgrades too, including LEDs for the rooftop lightbar, and 'sound and motion' package (Tamiya Multi-Function Control Unit) that brings realistic lights, sounds and vibration to the model, engine sounds having been digitally recorded from an actual truck,

along with the air-horn, gear shifting and many other noises. As you can imagine, it's quite an investment to bring all this together, but the joy the model brings when on the move will last for years and it will impress your modelling friends too! ●

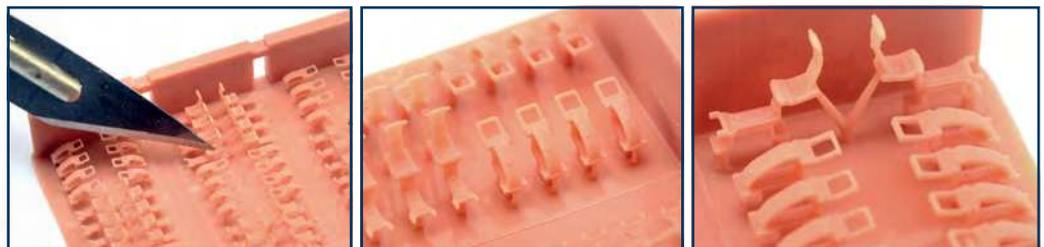
**Availability;** Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)



## EDITOR'S CHOICE

**HEAVY HOBBY 1:35 WWII GERMAN TOOL CLAMPS**  
HH-35004 [www.heavy-hobby.com](http://www.heavy-hobby.com)

I'm giving Heavy Hobby a plug this issue because I have become an instant fan of their products! Here we have a solution to the bane of many armour modellers' lives; the German AFV tool clamp. These devices are offered in plastic, photo-etched metal and traditional resin and are usually either clunky in appearance or fiddly to construct. Here, 3D-print tech comes to the rescue with closed and open clamps of varying types and they are incredibly refined. All that needs doing is to carefully trim them from the base plate and fix in position with CA glue. Marvellous!



# F-35B Lightning II

1:48  
scalascale

100%  
NEW  
MOULDS

STOVL version Short Take-Off and Vertical Landing



## Model Kit features

- 100% New Moulds
- Accurate reproduction of aircraft shape and profile
- Photoetched fret
- landing gears, weapons bay and air inlets accurately reproduced and open or closed assembly option.
- Two engine exhaust configuration: vertical landing mode or in flight mode.
- Opened and closed lift fan air inlet and auxiliary air inlet ducts.

= = Decals for 5 versions

- U.S. version "Beast mode" loadout
- 25mm Missionized Gun System ( GAU-22A )
- Military equipment GBU-12" Paveway II 500-lb, GBU-32 JDAM 1000-lb, AIM-120C AMMRAAM and AIM-9X Sidewinder.
- 2 weapons trolleys
- Color Painting and Decals guide



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**No 2810** model kit  
*modèle réduit*

prototype assembled without photoetched parts



photoetched fret

# Tyrrell P34

## SIX WHEELER

1/12 Big Scale Racing Car Series

### Tyrrell P34 Six Wheeler

(w/Photo-Etched Parts)

(Item 12036)

1/12



1/20

### 1/20 Grand Prix Collection Tyrrell P34 Six Wheeler 1976 Japan GP

(Item 20058) (w/Photo-Etched Parts)

# Legendary Six-wheeled Car

Announced in September 1975, the Tyrrell P34 caused a sensation with its distinctive six-wheeled design. It made its debut at the Spanish GP in 1976, and took second and third places at the Monaco GP. At the Swedish GP, J. Scheckter and Depailler got a one-two finish, and at the final race – Japanese GP – of the season, Depailler finished second, amply proving its competitiveness. The P34 is the only Formula One car to have featured four small-diameter wheels at the front, in an effort to reduce air resistance and improve handling and braking performance. Do not miss this chance to explore the depths of this legendary car!

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## 1/12 Scale Innovative Ideas in Impressive Size

The 1/12 scale kit features great size and a detailed parts breakdown which makes you feel like you are assembling the actual car. The model has realistic renderings of details such as engine with ignition cables and fuel pipes, cooling systems, suspension, and cockpit interior.



- ① Features aluminum air funnels on the DFV engine.
- ② Steering wheel moves the front wheels via a realistic rack and pinion system, and suspension employs coil springs.
- ③ Photo-etched parts give a realistic finish.

## 1/20 Scale Impressive Japanese GP model

The kit depicting the Japanese GP model in 1976 includes Cartograf decals to depict drivers' names in Hiragana at the left side of cowling. Photo-etched parts give realism.



- ① The seatbelt is realistically depicted by seatbelt stickers and photo-etched buckle parts.
- ② Photo-etched parts realistically depict distinctive triangular air funnel covers.
- ③ Large end plates, inside reinforcing parts, and complex rear wing stay rendered by photo-etched parts.

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

Both kits include  
hi-quality Cartograf decals.



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

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

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