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£4.60 April 2020 ISSUE 294

POLIKARPOV  
DESIGN  
BURRO!  
ICM'S 1:32  
I-16 TYPE 24  
'DONKEY'

**TAMIYA**

# Model MAGAZINE

INTERNATIONAL

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



**NUREMBERG**  
WHAT'S NEW  
FOR 2020?

POPPING THE  
CORK ON TAMIYA'S  
NEW 1:24 TOYOTA GR SUPRA

## CHAMPAGNE SUPRANOVA

**INSIDE...**

*Nuremberg Toy Fair report, Tamiya's classic 1:32 A6M2b Zero, plus new kits, books and modelling accessories...*

DOOLITTLE  
MEDIA



# Panzerkampfwagen 38(t)

Ausf. E/F

1/35 SCALE

Length: 132mm  
Width: 62mm



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19th Panzer Division, Russia, 1941

## Early Eastern Front Warrior

1/35 Military Miniature Series German Light Tank Panzerkampfwagen 38(t) Ausf.E/F (Item 35369)

After the effective annexation of Czechoslovakia by Nazi Germany in 1939, German forces were interested enough in the native Czechoslovak LTz38 light tank that they took it on and ordered production under their own categorization of 38(t), a light tank with riveted, welded armor and a perky 3.7cm gun. Early production 38(t)s took part in the early German offensives of the war, and the 38(t) underwent continued development with 1,400 produced in total. Ausf.E and F 38(t)s had additional armor across the vehicle for better survivability and were deployed during the early stages of Operation Barbarossa as Nazi Germany invaded the Soviet Union. It now appears in precise Tamiya 1/35 scale, with the compact riveted form captured in style. Don't waste this chance to get your hands on a significant element of the Wehrmacht war machine!



Fenders are a point of interest, loaded up with stowage boxes, jerry cans and the like.



The rear features various accessories and photo-etched engine grille mesh.

Comes with a realistic commander figure.

Turret front-left sight elevates in unison with gun.

Features two Eastern Front marking options.



Assembly type tracks with one-piece straight sections capture upper run 'sag.'



Photo-etched part

38(t) base vehicles also available in the 1/35 Military Miniature Series!



German Tank Destroyer Marder III  
(Item 35248)



German Tank Destroyer Marder III M  
(Item 35255)



German Tank Destroyer Marder III M  
'Normandy Front' (Item 35364)

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

Check Tamiya's homepage for the latest releases! [www.tamiya.com](http://www.tamiya.com)

  
**TAMIYA**

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

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Issue 294 April 2020

**EDITOR** Marcus Nicholls  
editor@tamiyamodelmagazine.com

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ICM's 1:32 I-16 Type 24, nicknamed the 'Donkey'



### 8 NUREMBERG TOY FAIR 2020

Once again, Toy Fair has come around

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### HOW TO CONTACT US:

TELEPHONE: (UK) 01525 222573

EDITORIAL EMAIL: [editor@tamiyamodelmagazine.com](mailto:editor@tamiyamodelmagazine.com)

ALL OTHER ENQUIRIES: [enquiries@doolittlemedia.com](mailto:enquiries@doolittlemedia.com)

ADDRESS: Tamiya Model Magazine International,  
Doolittle Mill, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX, UK

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- 1:12 Porsche 934 Vaillant
- 1:12 Kawasaki H2 Carbon
- 1:24 Toyota Celica XX 2800GT
- 1:24 Toyota Celica Supra Long Beach GP Marshal Car
- 1:24 Toyota Supra 3.0GT Turbo
- 1:24 Ford Mustang GT4
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- 1:35 West German Tank M47 Patton (Italeri tooling)
- 1:24 RC Metal Dump Truck (GF-01)
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- Acrylic Mini XF-92 Yellow-Brown (DAK 1941)
- Acrylic Mini XF-93 Light Brown (DAK 1942)
- Lacquer Paint LP-76 Yellow-Brown (DAK 1941)
- Lacquer Paint LP-77 Light Brown (DAK 1941)
- TS-102 Cobalt Green
- Mini 4WD Multipurpose Tape (20mm Width/Red)
- 40ml Square Bottle Holder
- Hexagonite Black Special (MA)
- Roborace DevBot 2.0 (MA Chassis)
- Neo-VQS (VZ Chassis)

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



### DRAGON

- 1:35 IJA Type 97 'Chi-Ha'
- 1:35 FlakPanther Ausf.D

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



### ICM

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- 1:32 Gloster Gladiator Mk.II
- 1:32 British pilots in tropical uniform 1939-1943
- 1:35 T-34 Tyagach' Model 1944 Soviet Recovery Machine
- 1:72 U-2/Po-2VS Soviet Light Night Bomber
- 1:35 Wehrmacht radio trucks

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

### NUNU

- 1:24 Porsche 935 K3 '79
- 1:24 Lancia Delta S4 Sanremo Winner

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



### PM MODELS

- 1:72 Fokker D-XXI
- 1:72 DFS-194 rocket-powered research aircraft
- 1:72 Spitfire Vb floatplane
- 1:72 Northrop F-5B Freedom Fighter
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- 1:96 F-4 Phantom II 'Kara Sahin'

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



### ZVEZDA

- 1:35 T-34-76 Gaika
- 1:35 M4A2(75) Sherman
- 1:72 T-28 Heavy Tank

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



### DAS WERK

- 1:35 Faun L900 Hardtop 9 ton tank transporter truck
- 1:35 Einheitsanhänger 5t
- 1:32 Ju EF-126 'Elli'

[das-werk-models.com](http://das-werk-models.com) [modellbau-koenig.de](http://modellbau-koenig.de)



### MINIART

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- 1:35 Pigeons
- 1:35 Scaffolding
- 1:35 British Military Lorry B-Type
- 1:35 Panzerfaust 30/60 set
- 1:35 Road Signs WW2 North Africa

[creativemodels.co.uk](http://creativemodels.co.uk) [miniart-models.com](http://miniart-models.com)



### REVELL

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- 1:72 Junkers F13
- 1:72 Dassault Aviation Mirage F.1-CT
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- 1:350 HMS Dreadnought
- 1:24 '78 Corvette Indy Pace Car
- 1:25 Camaro Concept Car
- 1:24 Citroen 2CV Cocco
- 1:24 Mercedes-Benz 1017 LF\_16
- 1:72 Model Set Bell UH-1D SAR
- 1:144 Model Set Airbus A-321neo
- 1:25 Model Set 69 Ford Mustang Boss 302

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



## ON THE WAY FROM 1:32 Tamiya F-51D Mustang Korean War

Known mainly as a WWII fighter, the North American P-51D Mustang also saw plenty of service in the 1950-1953 Korean War, in the form of the F-51D, the 'F' meaning 'fighter' instead of the older 'P' for pursuit. This release will now come with six 5-inch HVAR High Velocity Aircraft Rockets, wide paddle-blade propeller, SCR-522 transceiver with BC-453B receiver and new AN/ARC-3 transceiver set. New parts depict the slotted fuselage side radiator access panel and the kit includes seated and standing pilot figures, the former with new head parts featuring the P-1A helmet. The kit will come with three markings-options (two US and one Korean).

## ON THE WAY FROM REVELL

Revell's 1:700 HMS Invincible is depicted as she appeared during the 1982 Falklands War and comes with a complement of helicopters.

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



## ON THE WAY FROM TAMIYA

### 1:35 US M8 Light Armoured Car "Greyhound" Combat Patrol Set

Tamiya's still-fantastic 1998 M8 Greyhound is to return, this time with a set of crew figures and accessories.

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



### NEW FROM NUNU

The 2015 24 Hours SPA Francorchamps included the Audi R8 LMS GT3 WRT team on the grid and Nunu are to issue the kit in 1:24, along with an updetail set. [www.hiroboy.com](http://hiroboy.com)



## ON THE WAY FROM ZVEZDA

The very cool-looking Beriev Be-200 jet-powered flying boat is on the way in 1:144 and it might inspire some interesting seascapes dioramas! [www.hobbyco.net](http://hobbyco.net)



## ON THE WAY FROM EDUARD

### P-38F/G undercarriage legs BRONZE

Even more goodies are coming for Tamiya's 1:48 Lockheed P-38 Lightning: these bronze legs will certainly add extra stability

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



## ON THE WAY FROM AFV CLUB

The US Army 'King Cobra' gun truck used an M113 hull on its rear deck and this amazing combination can now be built in 1:35! Also new is a set of 1:35 British Centurion tank crew (Korean War). [www.pocketbond.co.uk](http://www.pocketbond.co.uk)



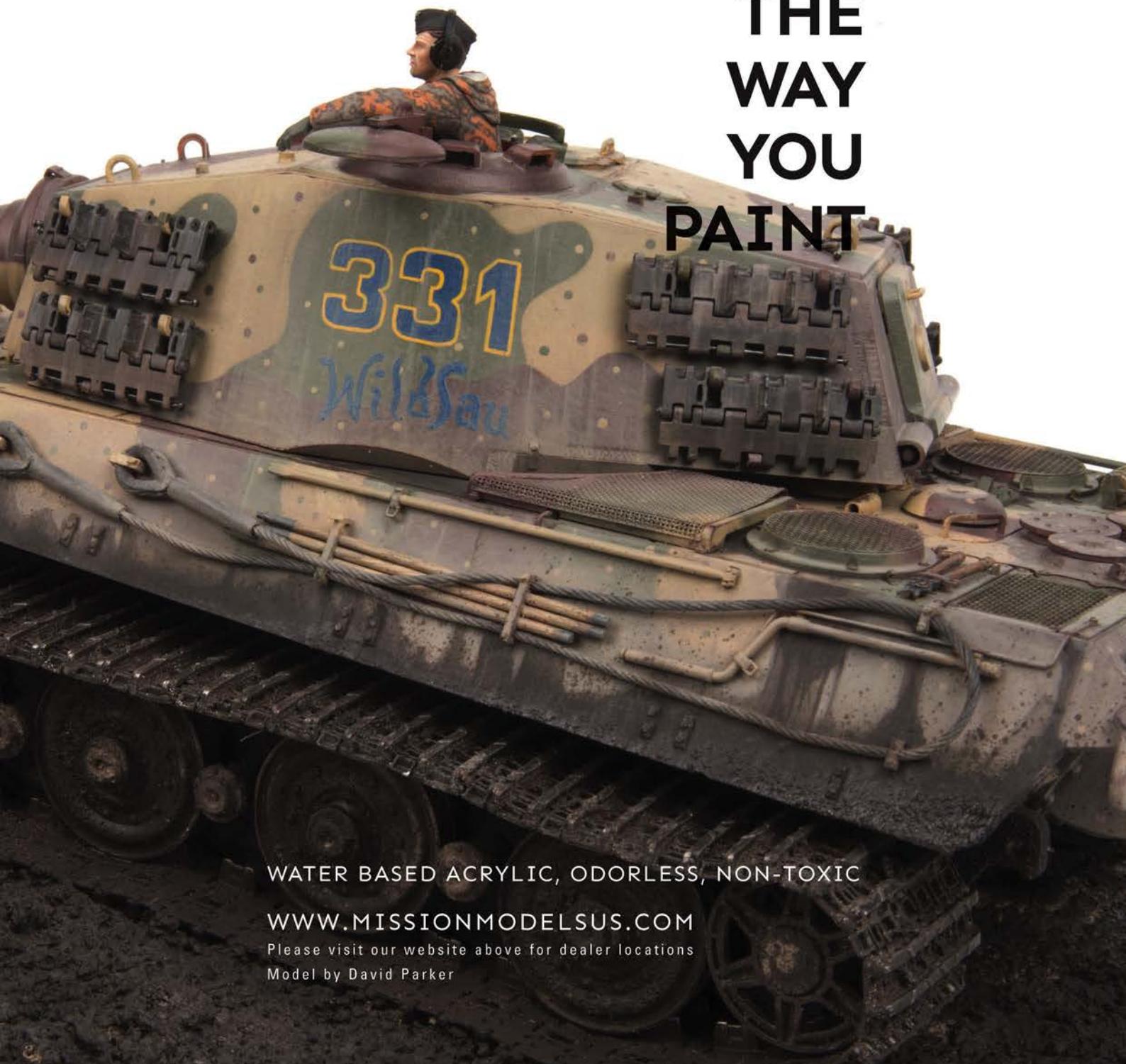
## NEW FROM ZVEZDA

More neat kits on the way from this Russian manufacturer include a 1:35 SU-122 Soviet self-propelled gun WWII, 1:144 Irkut MS-21-300 Airliner, 1:72 Sukhoi SU-24M 'Fencer-D', 1:72 Medieval Trebuchet and, most excitingly, and all-new Mi-24 Hind in 1:48! [www.hobbyco.net](http://www.hobbyco.net)

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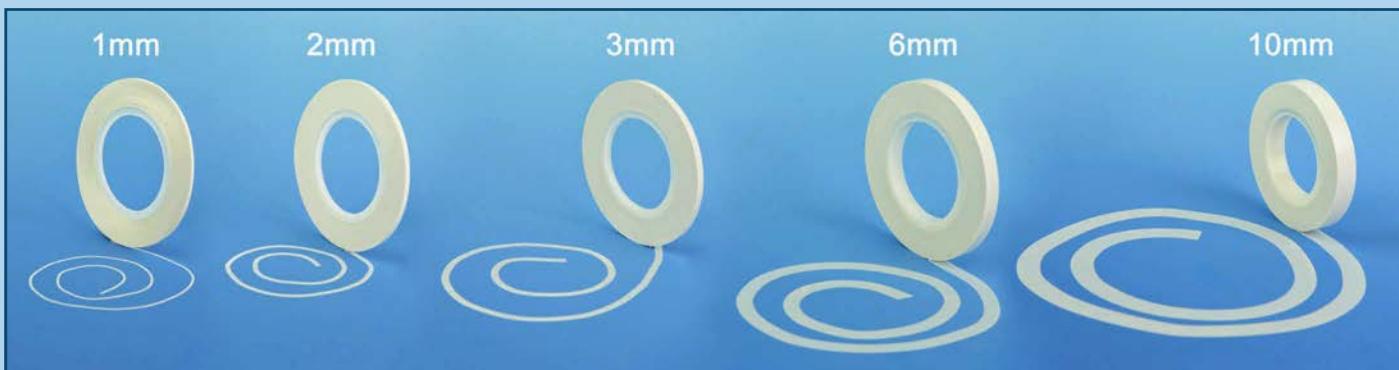
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# NUREMBERG 2020

And once again, that time of year has come around! TMMI headed south east to Nuremberg and photographed as many of the new models that were on show. Join us for a look at what we saw!

## TAMIYA

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

Tamiya's had some very cool kits on show, including the 1:24 Ford Mustang GT4 (new tool), 1:35 R35 Light Tank (new tool), 1:35 KV-1 (new tool) 1:48 T-55 (new tool), 1:32 F-51D Mustang Korean War, 1:12 1976 Porsche 934 RSR Vaillant and massive 1:14 radio controlled Volvo FH16 Globetrotter 750 8X4 Tow Truck. ■



## FORD MUSTANG GT4





# NEWS DESK EXTRA: TRADE SHOW REPORT

## NUREMBERG TOY FAIR 2020

### AIRFIX

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

Airfix's all-new 1:72 Vulcan is getting closer to release, as is the new 1:35 Cromwell tank ■



### ALCLAD II

[alclad2-online.co.uk](http://alclad2-online.co.uk)

Alclad II showed off their Mil Spec shades, a range that is constantly expanding ■



### AMMO BY MIG

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

AMMO's vast range of modelling paints and weathering materials was on show, including the new 'Shader' line of pre-thinned airbrushable colours ■



## BADGER AIRBRUSH

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

Badger had a very glitzy gold-plated edition of their top-end Sotar airbrush on show, as well as their other high quality instruments ■



## BELKITS

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

1:24 MG Metro 6R4 Rallye Monte Carlo 1986, 1:24 MG Metro 6R4 Lombard RAC Rallye 1986 ■



## COPPER STATE MODELS

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

Two new early armoured cars are coming from CSM in 1:35, the Minerva and (Lancia) 1ZM, plus Nieuports XXIII and XXI in 1:32 ■



# NEWS DESK EXTRA: TRADE SHOW REPORT

## NUREMBERG TOY FAIR 2020

### DAS WERK/MODELLBAU-KÖNIG

[mbk.de.uschivdr.com](http://mbk.de.uschivdr.com)

The eight-gunned 2cm Salvenmaschinenkanone Type 2 is coming from Das Werk, plus and FMG-39 Würzburg radar, both in 1:35. In 1:32 they are to release the JuEF126 'Elli/Walli' pulse-jet fighter and an all-new Kettenkrad is coming too in 1:35 ■



### EBBRO

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

Ebbro have acquired the rights to re-release the classic Tamiya 1:12 1968 Matra MS11, a very interesting development indeed! ■



1/20 SCALE



## EDUARD

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

Eduard announced an all-new Spitfire Mk.I in 1:48 plus many variants of their existing kits across the popular modelling scales. They also showed off their photo-etched sets for just about every kit imaginable! ■



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## NUREMBERG TOY FAIR 2020

### HAULER/BRENGUN

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

Hauler are to release a much-needed photo-etched set for Tamiya's recent 1:48 Panther Ausf.D, plus a host of other neat models in resin/photo-etched brass ■



### ICM

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

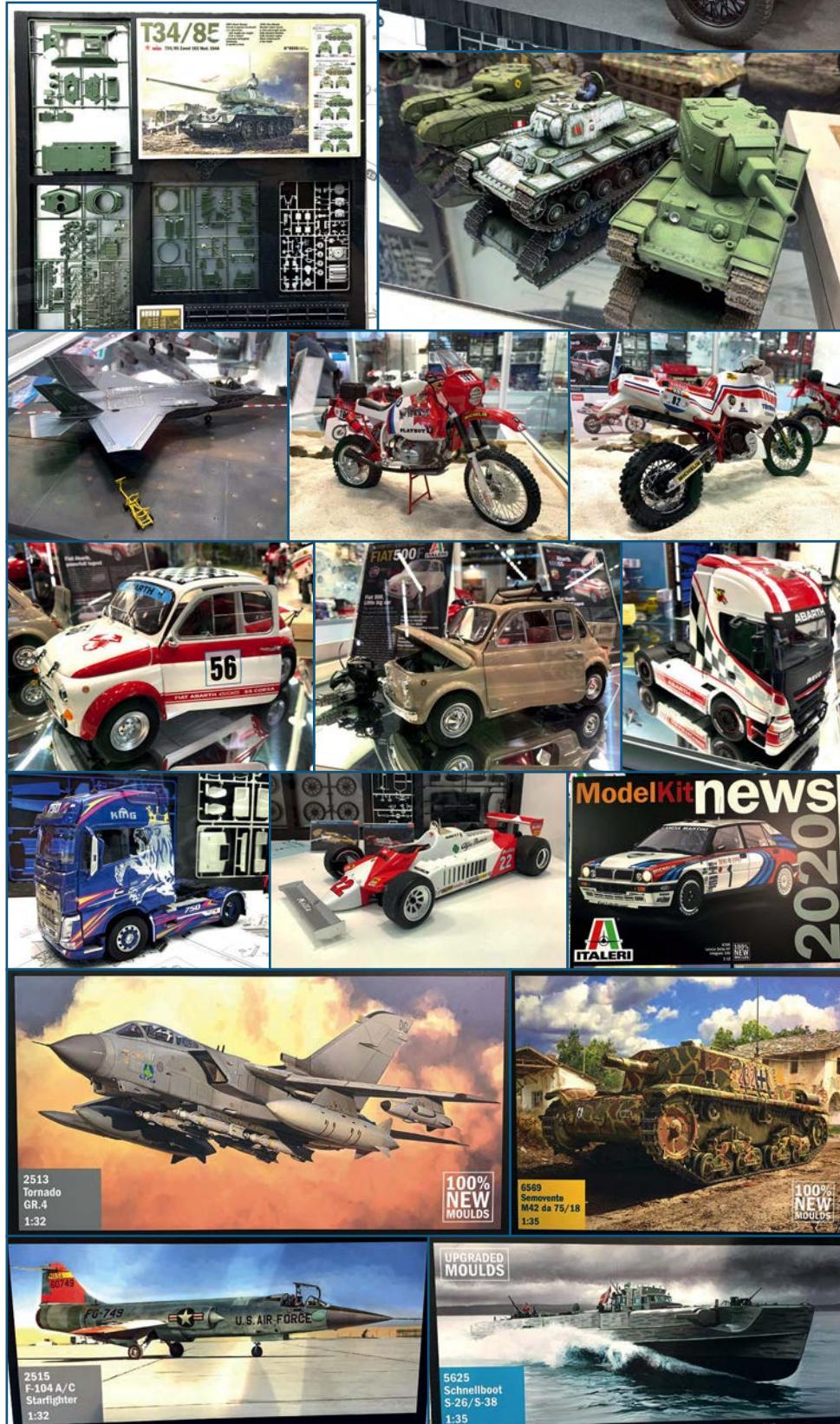
ICM's new Gloster Gladiator looked fabulous, as did the 1:24 1886 Benz Patent-Motorwagen, widely acknowledged as the world's first production car ■



## ITALERI

hobbyco.net

Italeri's all-new 1:12 Lancia Delta HF Integrale 16V caught our attention and it will be very interesting to see how it looks 'in the plastic. Also new is the 1:32 Tornado GR.4, 1:35 T-34/85 and Semovente M42 75/18 ■



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04972 Junkers Ju88 A-1 'Battle of Britain', 1:72

LEVEL 5



04977 B-25D Mitchell, 1:48

LEVEL 4

NEW PARTS



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

LEVEL 5



© Aviation PhotoCrew  
03848 Eurofighter Typhoon 'Baron Spirit', 1:48

LEVEL 3

NEW TOOL



07047 Land Rover Series III LWB, 1:24

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# NEWS DESK EXTRA: TRADE SHOW REPORT

## NUREMBERG TOY FAIR 2020

### MINIART

[miniart-models.com](http://miniart-models.com) [creativemodels.co.uk](http://creativemodels.co.uk)

The 1:35 London Bus kit was top of the list for us, and MiniArt also have a new-tool T-34/85 with full interior on the way. Also coming is a new 1:35 Pz.IV Ausf.J Nibelungwerk plus more fantastic accessories ■



### PLUS MODEL

[plusmodel.cz](http://plusmodel.cz) [creativemodels.co.uk](http://creativemodels.co.uk)

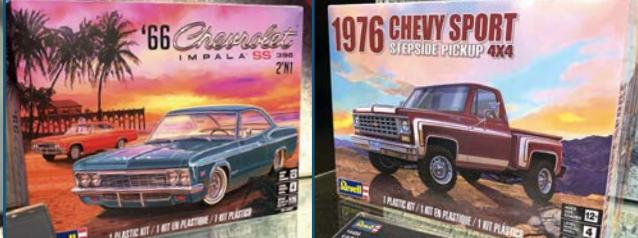
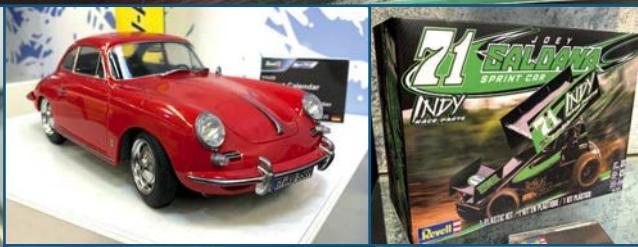
Plus Model have created a new 1:35 US forklift truck in resin/PE that can be depicted in service with variety of agencies, plus the trailer for their amazing 1:35 Daimler Zug vehicle ■



**REVELL**

revell.de/en

The big news from Revell was the announcement of a new-tool 1:38 SR-71 Blackbird for 2021 release, plus a new Jaguar E-Type in 1:24. Masses of other neat stuff too across the scales, including new-tool Sturmpanzer 38(t) 'Grille' Ausf.M and the introduction of Bandai's B-Wing ship into the Star Wars line ■



# NEWS DESK EXTRA: TRADE SHOW REPORT

## NUREMBERG TOY FAIR 2020

### TRUMPETER and HOBBYBOSS

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

Trumpeter showed off their magnificent 1:200 RMS Titanic, plus her sister ship 'Olympic' in WW1 camouflage and the model looked quite breathtaking ■



### ZVEZDA

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

The 1:35 'Pantsir' mobile AA truck looked fantastic, as did the 'Bumerang' infantry fighting vehicle ■



### And finally...

Well, it would be the Nuremberg Toy Fair with a slight of raspberry and white chocolate cake, served up by Tamiya Germany's lovely assistants, would it? See you again next year! ■



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



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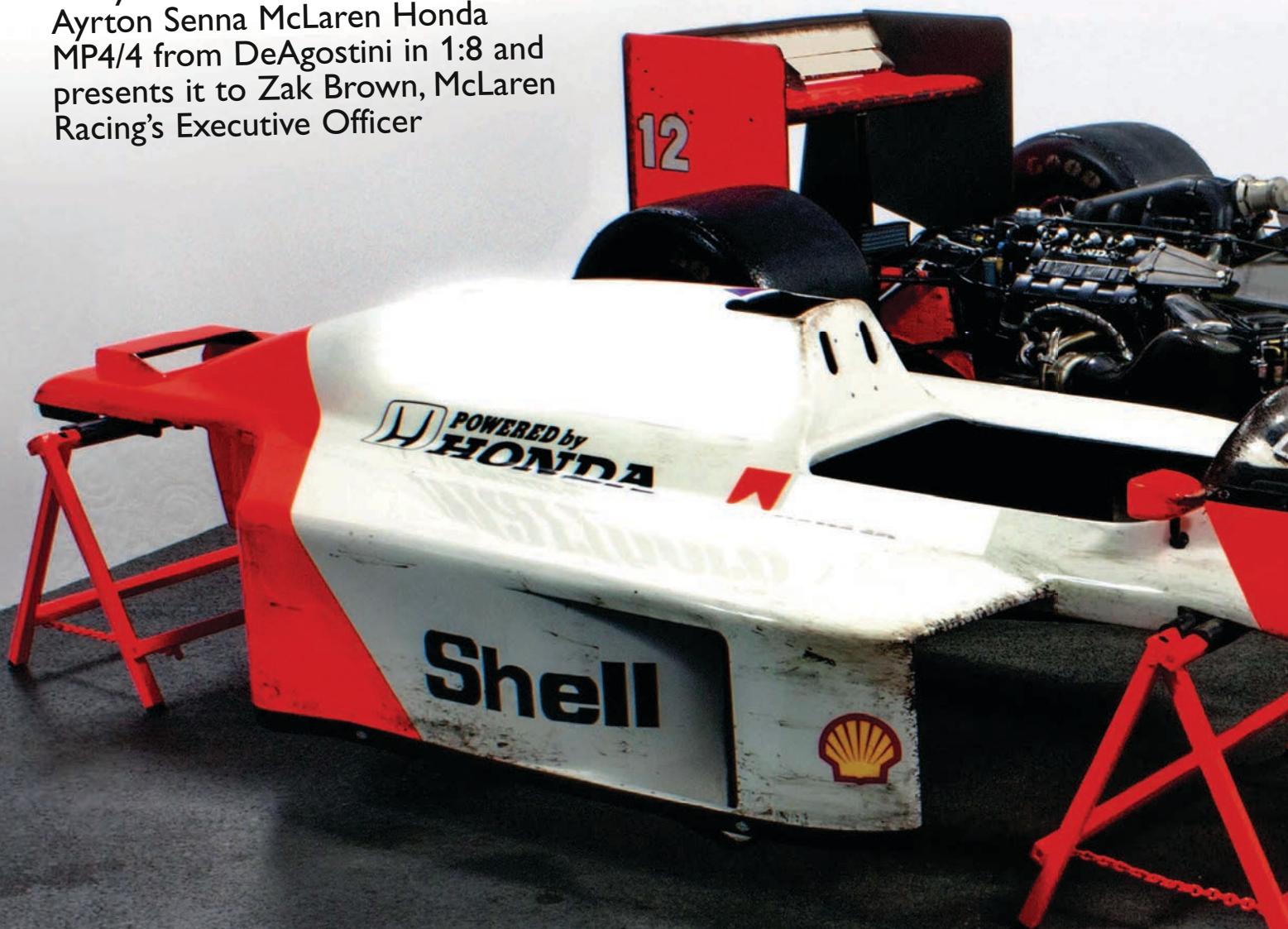
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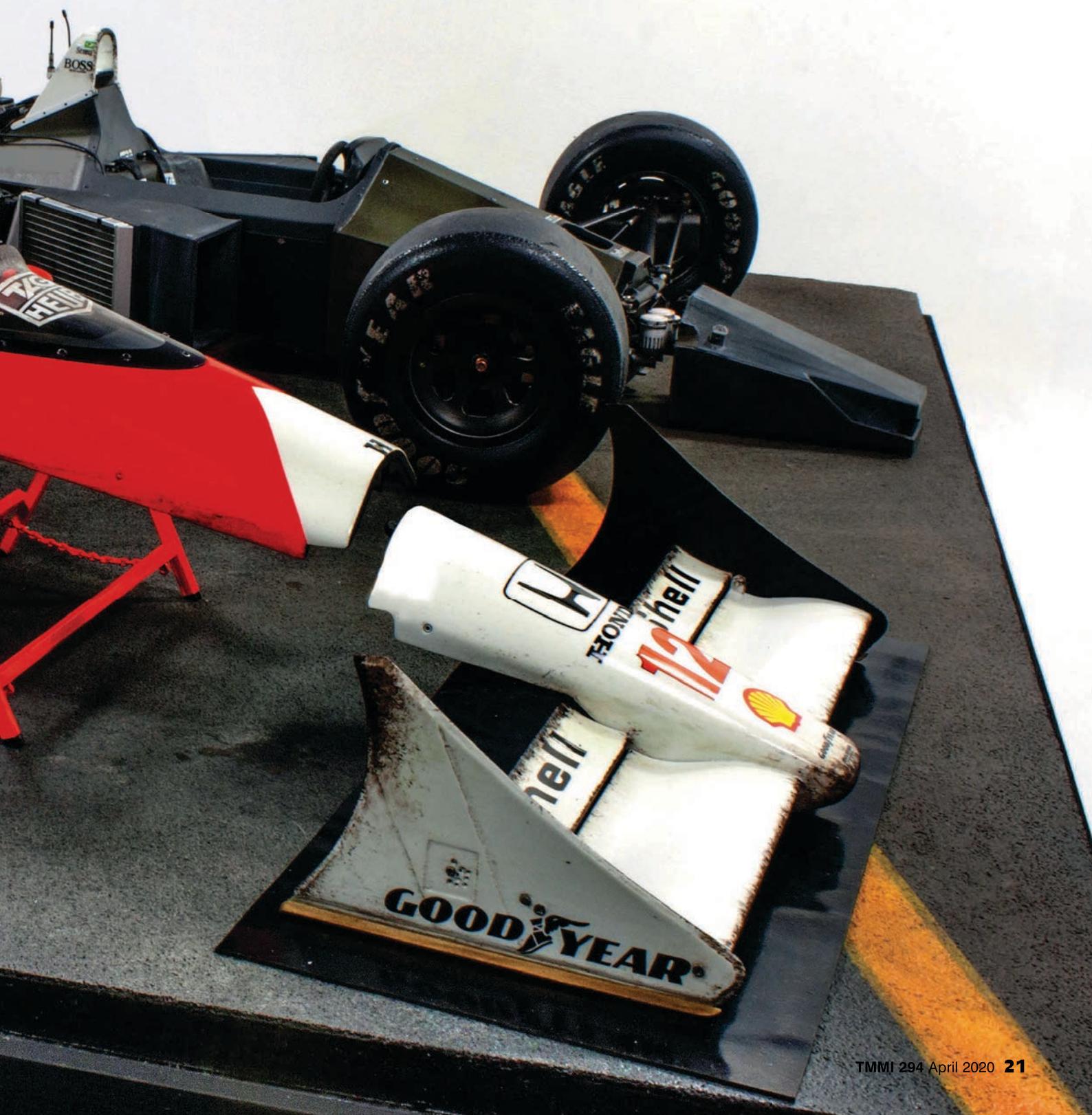
# ONE STEP AT A TIME, PT

Carl Robertshaw breathes a sigh of relief as he finishes his 'diary-build' of the enormous 1988 Ayrton Senna McLaren Honda MP4/4 from DeAgostini in 1:8 and presents it to Zak Brown, McLaren Racing's Executive Officer



Please note, certain sponsor's logos have been obscured in the photos of this model to comply with rules about advertising tobacco products

# 7.4 THE CONCLUSION



### FRONT SUSPENSION (STAGES 29 – 31)

The stage starts with building a wheel, which of course I left to do later with the others. To start construction of the suspension, brackets were screwed to the side of the monocoque, then the wishbone, track-rod and pull-rod on the left side are fitted. This was all a little fiddly, but nothing worse than to be expected by now.

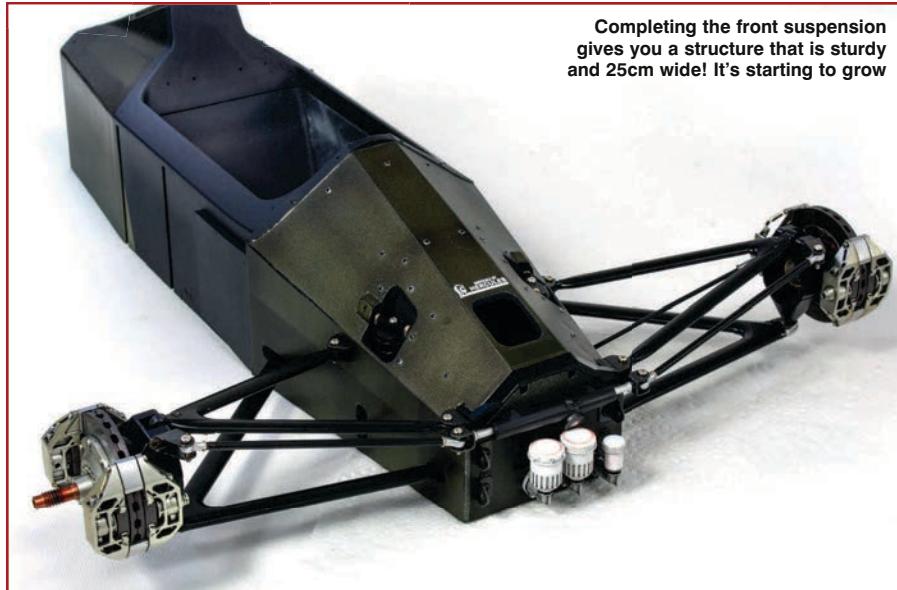
The cockpit was next. We unscrew the bottom plate from the cockpit (why did we fit it in the first place?) to then glue the cockpit in place. This makes some sense in the order of things because the right wishbone assembly fixes to part of the cockpit in the specific way the model is engineered. The suspension goes together same as on the left and fairly quickly we see results. The baseplate was then screwed back into place, which I didn't do because, looking ahead, I had lots of sub-assemblies that were fairly complete but still had plenty of bags containing parts that needed fitting; I noticed that in stage 56 we unscrew it all again to fit the underbody. RPM now stands for Revisions per Model.. How many?

### INTERCOOLER PIPES, ENGINE BLOCK (STAGE 61/PACK 18)

The intercooler pipes are cast metal parts and I sanded them back to remove the mould line and impart a high shine like the real car. These were keyed and glued with CA to the intercooler. You then temporarily fit the engine block and the mounting plates. This is to line up the intercooler pipes, but what you get is a noticeable 1.5mm gap. Later I cheated and filled this with some black copper wire.

### ASSEMBLING SEAT BELTS (STAGE 65/PACK 19)

DeAgostini provide the seatbelt as a partly completed assembly. The webbing is exactly that; thin fabric strip which is sewn into the buckles and harness. I chose to improve these and replace them with black ribbon and glue it in place. The buckles are metal, are overly wide and noticeably out of scale. I used a fine saw to cut them directly down the centre to remove 1.5mm from their width. Gluing them back together with thin CA, the cut is all but invisible and is mostly covered by the ribbon anyway. The BOSS logos are printed vinyl stickers that I also glued to the ribbon for a better finish. This was then placed into the seat, referring to images of the real harness, and glued with tiny dots of CA to look naturally draped. Later, I painted matt varnish onto the seat and harness so it wouldn't move. The fuel filler valve and gear link bearing housing is easily attached at this stage. ➤

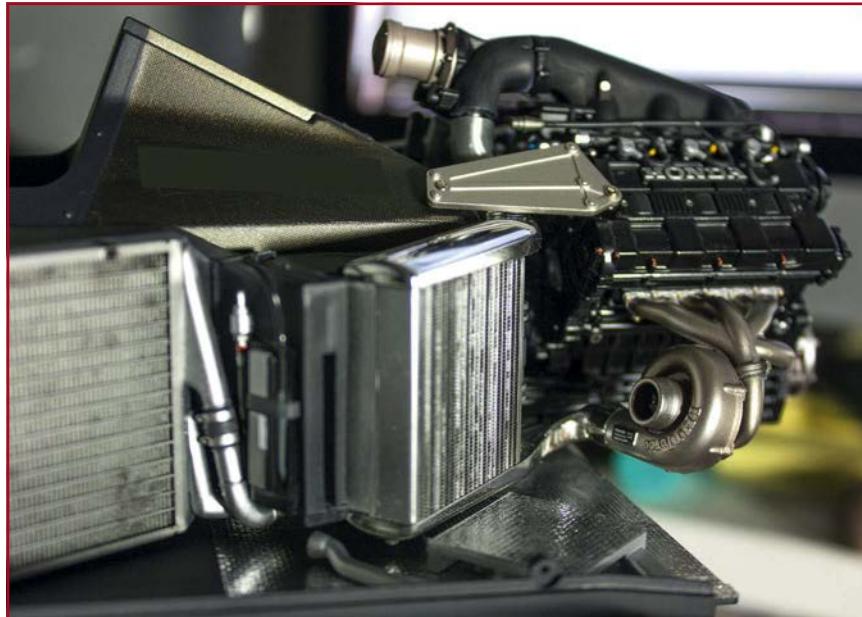




Polishing the intercooler pipes improves their look. Simply spin the parts in fine sandpaper and hey presto



Using Deluxe Hot CA glue provides a strong instant bond and the pipes look the business in place



Temporarily fitting the engine block with the engine plates reveals a significant gap from the intercooler pipes to the plenum chamber. Hard to see in this image but it's very evident to the eye



After committing to remake the vertical ends to the front and rear wings, the author needed to dismantle the previously glued assemblies. Deluxe Glue Buster is the solution to de-bond the super glued parts



Two pairs of wheels for comparison. Out of the box on the left, and partially sanded on the right. Which looks more scale-like?



Remaking the harness was a simple and effective procedure. The blue buckles are sawn directly down the centre removing 1.5 mm of width. Thin CA glue is used to glue the halves back together and to secure the ribbon which is much finer and in scale than the kit supplied webbing version



With the harness in place it was glued in situ with tiny drops of CA, and painted with matt varnish to maintain the folds and natural draping appearance

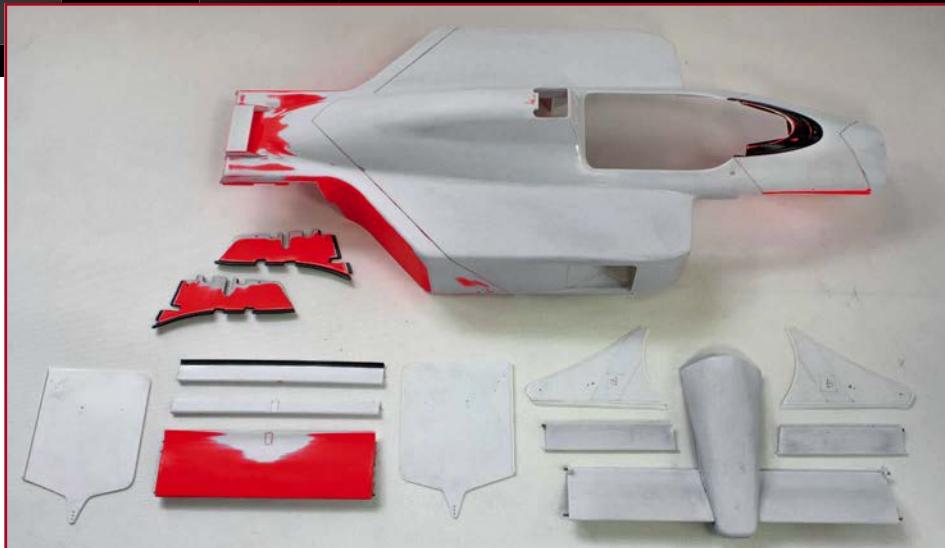
### MAIN BODY COVER

I glued the body parts together with thin CA, which I applied liberally. There is plenty of mating surface and I also wanted the glue to fill the panel joins. I also took the plunge to rebuild the front wing end-plates. After so much time and effort spent on research and living with the images, it was only fare to recreate these in a scale thickness. I used Deluxe Glue Buster to de-bond the front and rear wing assemblies. Using thin plastic stock, cut to shape and laminated, I remade the front wing uprights. They were tacked to a board to cure flat.

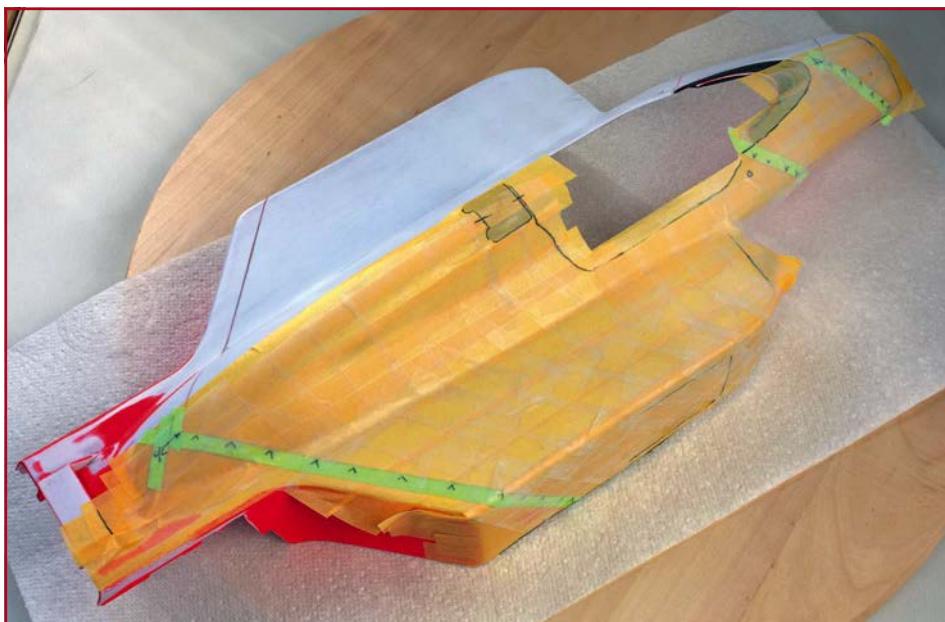
Using coarse sandpaper I also thinned the rear wing uprights by half. It took me around three months – working in stages to sand and fill the body and allow it to dry – inspecting it repeatedly to remove enough material and the sink marks in preparation for a decent paint job. Wet sanding by hand, I used 240-grit sandpaper to start, reducing the grade patiently to eventually finish with 4000-grit. Being such a large kit, be aware this is a significant physical undertaking on your arms and on your work space. It creates a lot of mess!

One of the deciding factors in my decision to go down this route were the pre-applied logos and numbers. The 'white' transfers on the rear uprights are too translucent – almost pink – and the colours of the logos on the white areas of the body look washed-out too. My personal view is that this machine should wear all the sponsors' logos from the era, as a historically correct final image, so my plan was to present the car in full, as it was visually designed, rather than half naked.

In preparation for painting, I traced the chevron from the coloured plastic onto a half-body wrapped in masking tape. In the end, I didn't actually use this, but it was insurance when it came to re-applying the red paint over the white. The body parts were all primed in Zero Paints Light Grey Primer, checked for defects and sanded using MicroMesh 2,400-grit to prepare for the white coat. This is just like working on a full-sized vehicle and the underlying surface needs to be perfect. Anything but, and you haven't a chance of creating a decent top layer.



The bodywork during the three months of wet sanding sessions using subsequent finer grades of grit, starting with 240 going through to 4000. The plastic exhibits sink marks and the noticeable seams at the colour demarcation boundaries. The plastic is very thick though so you can cut plenty of material away to perfect the surface



A masking tape template was made for the positioning of the chevron as an insurance policy for repainting. This wasn't needed in the end, but better to keep a physical template in case



A masking tape template was made for the positioning of the chevron as an insurance policy for repainting. This wasn't needed in the end, but better to keep a physical template in case

## WHICH PAINTS TO USE?

For the exterior, the go-to people for the paints are Zero Paints; the guys are very helpful and have an exact match for the colours. But, they suggested it was okay to use their white primer as the white for the finished model. This unfortunately yellowed quickly, so a new 120ml bottle of their Pure Brilliant White was hastily purchased and sprayed over the off-white primer. The paints spray flawlessly, but be aware, on a model this size, you will be using a lot. I used half of the 120ml bottle of the Grey Primer, nearly a whole 120ml bottle of White Primer, half of the 120ml Pure White, and then 60ml of the Red. The McLaren MP4 Rocket Red paint is a brilliant match. Several thin coats build up the intensity to a rich, vibrant and even cover. This process wasn't rushed, and each consecutive layer given days to cure properly.

To prepare for the decals, thin gloss coats were applied and when hardened off, buffed to create a perfectly smooth surface for the decals, which went on like a dream! On the curved surfaces it takes some time to get the correct alignment of the large sponsor logos, but the decals allow you to handle them confidently for some while. After they were given a good amount of time to dry it was then to the gloss coat. Two-Pack Clear Coat Diamond finish by Zero Paints again was my choice. I've used this before and



The tyre logos were sprayed using stencils from Autograph. Much more true to life than the kit supplied finish



For a size comparison, here is a Lego F1 model wheel and the 1:8 scale McLaren tyre. Substantial

with careful attention to the mixing ratios, ventilation and thin/thick coats, following the instructions, the result is superb.

This was given over a week to cure and I then masked the lower edge of the body to paint in the bottom rim black. DeAgostini provide a vinyl sticker for this, but I'm all for painting this instead. Peeling away the masking pulled away the gloss coat on the rear section of the body! Another step backwards - this just continues the theme on this build. So, a few days later after calming down (again) I set about repairing the damage. The area was glossed again and the masking was re-applied for the black border. This time the masking tape was repeatedly pressed and lifted from my cutting mats to reduce the tack to its bare minimum on the tape. It worked, and the gloss was again left to harden for over a week.

## TYRES AND WHEELS

I was really looking forward to recreating the race-worn tyres and wheels. They are hefty and equal in size to the

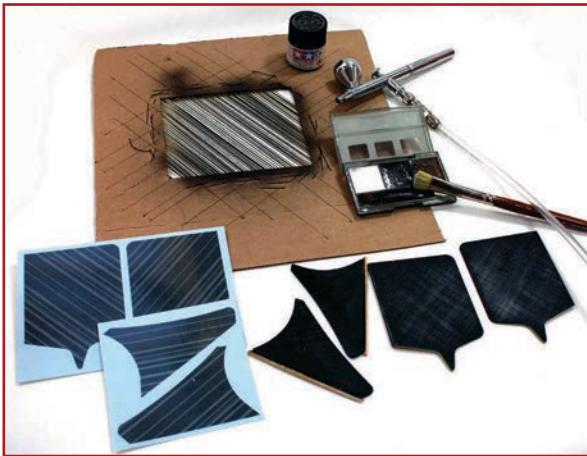
large Lego F1 model wheels! The tyres were each clamped into a drill, spun up to high speed and pushed into coarse sandpaper. This causes the rubber to literally melt and makes one hell of a mess; excellent! It's what happens to the real thing, so it's an easy and fun job to punish the rubber in this way. The wheels were spun slowly by hand and rubbed with wire wool to distress the metal. This adds the scale level of interest on close inspection.

The sidewall logos were sprayed onto the tyres using a stencil. This is much more realistic than

the kit-supplied crisp bright white versions. The sprayed logos were sanded back and oversprayed with Tamiya X-19 Smoke. The outer surfaces of the tyres were also stippled with several shades of grey and then gouged and cut with a curved No.10 Scalpel. (Swan Morton of course!) The valves I made using 1mm brass tube cut to 3mm lengths and added a fine rubber tube as the boot. These were glued in position with thin CA and are a better representation than the undefined kit-supplied injection-moulded valves.



After giving the body paint plenty of time to 'go off' the surfaces were sanded gently, graduating through to the finest 12,000 grade



The author made a mask to spray light grey and black through, to create the fine carbon weave effect on the wing uprights, simply cutting a hole in card and used sewing thread and thin masking tape in a random parallel diagonal layout. The real life texture is varied and more random than the uniform decals which I chose not to use. The sprayed texture was tied together with the stiff brush/white pastel technique again. Above right: The close up comparison of the printed decal and the author's personalised result. Both of these are head and shoulders above the kit finish of uniform plain black



### CONCLUSION: WEIGHING IT ALL UP

Ayrton Senna said; "I continuously go further and further learning about my own limitations, my body limitation, psychological limitations. It's a way of life for me" For me this model has been something of a personal mountain. A challenge that I'm glad to see complete, but is this challenge for everyone? I doubt it.

If you're after a large, handsome and expensive F1 model that can be built with a few limited tools and skills out of the box, then you will be pleased with the result. The proportions are correct and the model is, on the whole, equipped with the right parts, but take a few moments to look a little longer and there are fundamental omissions and simplifications. The steering works and the finished model weighs in at over 2.5kg thanks to the multitude of metal parts, making it feel substantial. But, this is also a drawback when handling, it becomes unwieldy. I bought a big 'lazy Susan' specifically for mine.

The closer you look, the more you see. This side view of the engine block shows the addition of the scratch built diagonal brace - a glaring omission from the kit. The turbo repainted in the correct colour, the carbon decal on the duct, the silver wrap around the hose and detail painting of every part seen here



This is the tool kit needed to create the finish on the body work alone. All in one place it looks intimidating, but look closer and it's not that daunting. Everything here is readily available and been used previously by many authors within the pages of TMMI. The daunting aspect of the kit is its size. It likes to drink paint, and you get a real work out sanding!

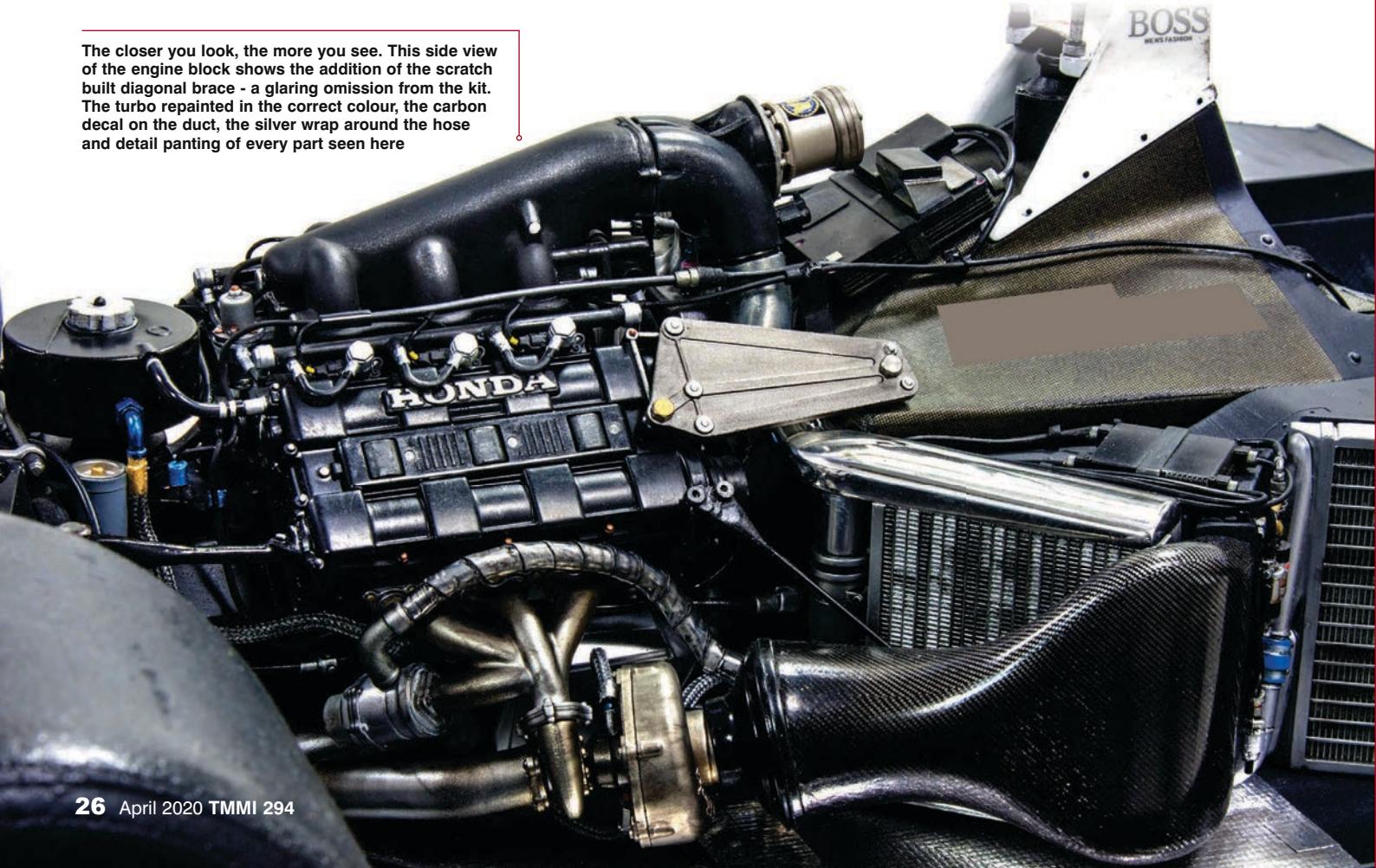
### RECOMMENDATION?

Building scale models all through my life – from balsa planes to RC cars and boats and many plastic kits – at several points in this build I considered quitting, which

reflects the character of this kit. Several times I found myself saying out loud; "it would be easier to scratch build the whole thing!"

What we have here though, in my experience

with this MP4/4, is a bit of a sow's ear. I just hope I've made enough of a silk purse out of it to be seen as worth the effort. I'll let you know after I've seen my friend at McLaren... ●





A. The 1:8 model, united with the real thing! B. A very smart nameplate was fabricated by the author for the final presentation board. C. The author, with Zak Brown, the Executive Officer of McLaren Racing



Please note, certain sponsor's logos have been obscured in the photos of this model to comply with rules about advertising tobacco products

**FULL-BUILD: STREET CAR**  
TAMIYA 1:24 TOYOTA GR SUPRA • KIT NO.24351

# CHAMPAGNE SUPRANOVA





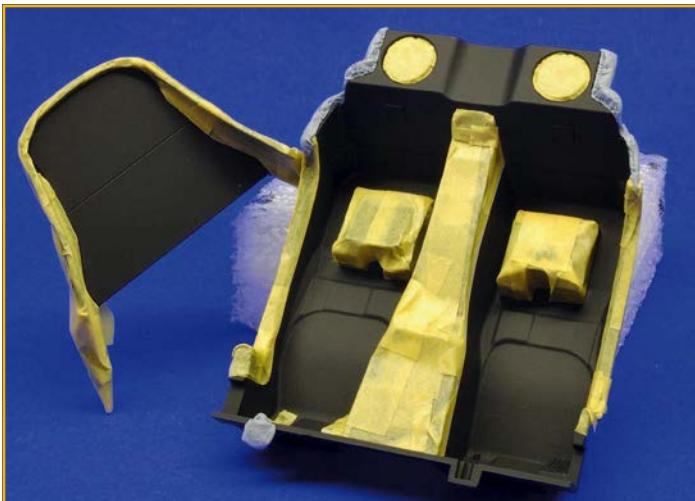
**Robert Riley** builds Tamiya's stunning new 1:24 Toyota GR Supra, the return of a cult hero...

## FULL-BUILD: STREET CAR

TAMIYA 1:24 TOYOTA GR SUPRA • KIT NO.24351



Parts check and fit. A minimal area in colour work with plenty of room for enhancement for us to add our own style



The author chose to paint the whole interior in matt black then masked off all areas that needed to remain in the highlight colour

**R**ight from the start I had great feelings about this latest Tamiya release. Those smooth lines were captured perfectly by the designers, the ride height looked spot on and the early release shots showed great promise. But what is it like inside... Pretty uncomplicated is the honest answer. Nothing too complex in that box, the parts-count in comparison to other kits in the series is relatively low which generally means build times can be shorter. The quality of a modern Tamiya model is in a league of its own, with this latest release following the trend thus giving me complete faith in the project.

I already had an idea of what I wanted to do with the model but a bit more inspiration trawling the net is always welcome. The SEMA show in Las Vegas is huge, it's basically the world's largest gathering of automotive performance and styling parts where thankfully the 2019 show had several GR Supras on show. The one that shone for me was the 3000GT Concept, a silver bodied, aggressively styled Supra with yellow stripes and sporty-looking style. My plan was confirmed! ☺



More masking for black parts. The centre console was particularly time consuming as the exposed areas would be matt in finish compared to the covered which remained gloss



Zero Paints Ferrari Bordeaux Red leather colour was applied on the seats, arm rests, steering wheel and centre console parts



The only extra part added that isn't included in the box are these seat belt sockets from Hobby Design



The completed look was achieved using careful masking and colour application through the airbrush. Depth was given to the recesses using a darker red filter shade



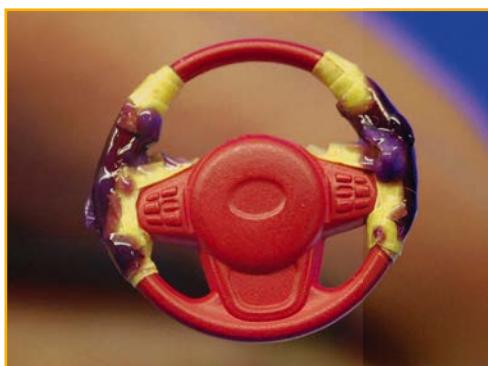
Zero Designs Charcoal colour flocking was the desired route to replicate the carpet material



The results were achieved after flocking was applied along with fitting the centre console parts



The rear parcel shelf received the same flocking treatment to replicate carpet



After the Ferrari Bordeaux Red colour was applied, the handle grips were very carefully masked off with the exposed areas left to be painted matt black



The completed dashboard. Each button, switch and knob was hand-painted with tiny white dots to replicate logos using real reference. This was applied to all areas where required around the cabin



Door card work. This area comprises two decals for the speaker covers; the arm rest is a separate part, thankfully, making paint application much easier. The rest was hand painted

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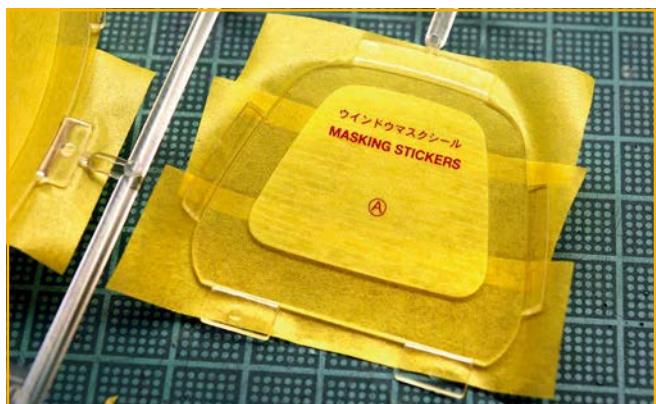
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## FULL-BUILD: STREET CAR

TAMIYA 1:24 TOYOTA GR SUPRA ● KIT NO.24351



Pre-cut masks are supplied in the box and are a perfect fit, as expected. The outer clear parts were masked off to avoid any overspray

Tamiya's LP-1 was airbrushed on all internal parts then the masking was removed to reveal an ideal finish. The transparent plastic is absolutely crystal clear!



### ● BUILD UP

The body area is first and clean up was simple with nothing drastic. Zero Paints primer was used on all areas then sanded back to check for any imperfections ready to take the colour. My choice for that as per the SEMA-inspired car was Zero Paints' Matt Storm Grey from the Supra colour range.

The stripes were obtained from Xtradecal with various sizes on the sheet, my plan was to apply them to the car's flanks and also around the lower half of the aero parts. On the subject of aero parts, these were all covered in Scale Motorsports' 1:24 twill weave carbon pattern which included side skirts, front splitter, rear diffuser

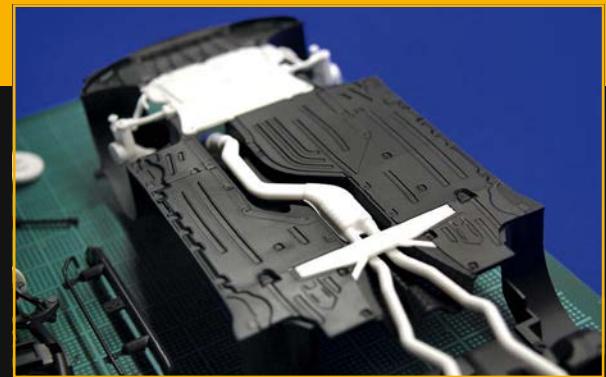
and also side pods. Not an easy task but well worth the time taken.

This was followed by the application of pinstripe decals for that speed-line look to the finish. The main bodywork was cleared coated in Zero Paints Flat 2k clear and there would be no room for error during application as this was a one-shot process.

Once the curing process had finished, I applied more Scale Motorsport carbon-fibre decal – this time to the roof – choosing the Hi-Def pattern to help break up the main body colour and give a more authentic style. For the finishing touch to all carbon parts and for contrast, I applied Zero's 2k Diamond Shine clear gloss. ▶



Parts are included in the box for left or right hand drive; international or European spec. It's up to you which you choose and how you'd like your cabin colour work to go



A dry-fit assembly of the rear differential and suspension set up

More dry-fit parts check on the chassis; exhaust system, front steering and suspension



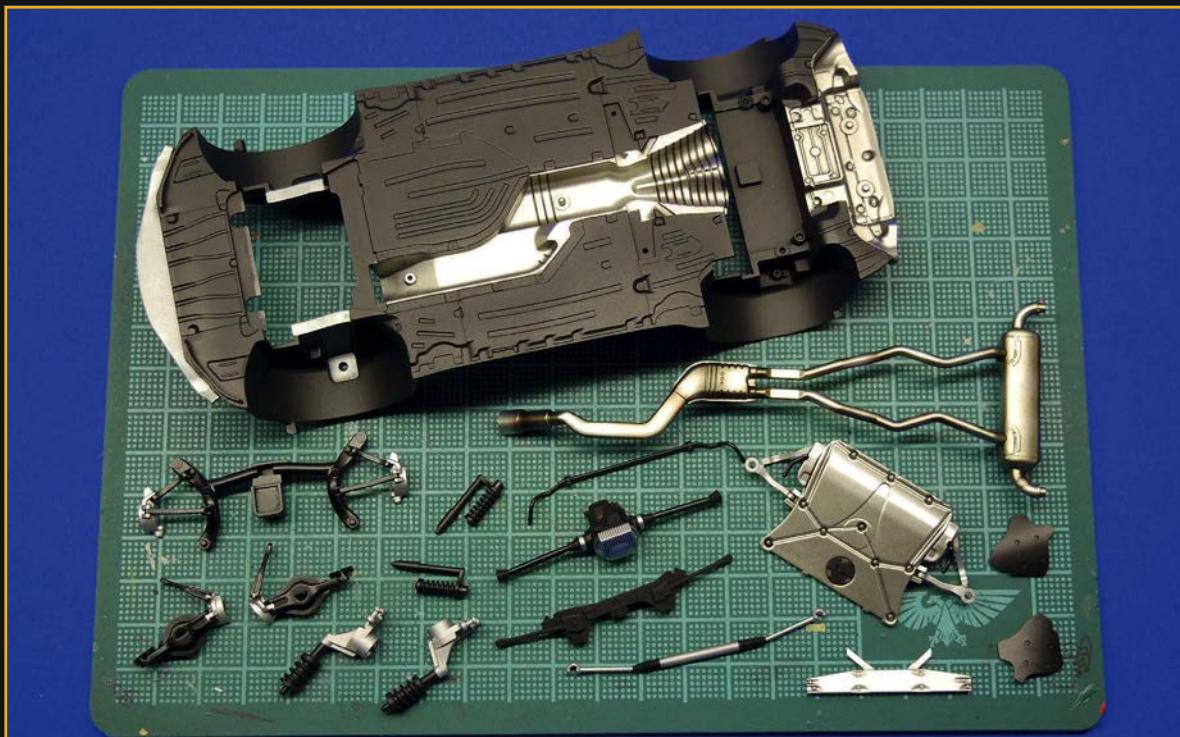
Another masking marathon. The exposed chassis areas are heat shields with everything else a metallic base shade



Zero Paints Titanium Silver was airbrushed on the heat-shielded areas with Tamiya Black Panel Line Accent Color used to shade the recesses



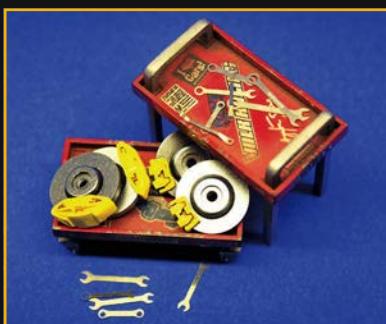
To liven up the exhaust system the author felt it more appropriate to create a slightly 'used' look by weathering specific areas. The contrast of colours gives life to this area



Parts breakdown after all colour work was complete. Some careful making is called for here!



After paint work, the brake discs were masked off leaving the brake callipers exposed. Tamiya's X-8 Lemon Yellow was the colour of choice



The complete set ready for fitment. The callipers were given very subtle shading to give depth and to break up the yellow hue



Don't you just love when a plan comes together? A really satisfying result once all parts are fixed into position

## FULL-BUILD: STREET CAR

TAMIYA 1:24 TOYOTA GR SUPRA • KIT NO.24351



Just one quarter of the tools and materials used to help create the author's vision of this Toyota's bodywork

### CHASSIS

The belly of the beast was fairly straightforward, with the main build up being on the rear diff/suspension section. This is a fabulous part of the model due to it being so well thought-out on parts fit and detail. I wanted to take a dive into

the Tamiya LP colour range for this build as I'd heard great things about them and, wow, I am totally sold! Armed with Mr. Color's Leveling Thinner 400, they hand paint superbly and equally as good through the airbrush. The finish on these paints, coupled

with the Leveling Thinner, is amazing. I kept the LP colours for the details with the Zero Paints being used on main areas and metallics.

The whole chassis was masked off leaving the centre and rear section exposed and this was then airbrushed with Zero Paints' Titanium

Silver. These components form the heat shield so I felt a clean finish with mild shading for depth would be ideal. Coupled with the exhaust being treated to mild heat staining using Alclad II's Hotmetal finishes and dark browns, the whole area looked visually appealing.



In just a few simple parts, the shape of the new GR Supra is immediate. Tamiya have captured the lines perfectly



After priming with Zero Paints, the body was left to cure then sanded smooth with various grades of abrasive to ensure the main colour work laid down evenly

All subsections were painted according to the instructions and fitted together with the final touch being the brake callipers, which were painted yellow to match the stripes.

### CREATURE COMFORTS

I always enjoy working on the interiors of my models, so was looking forward to seeing what I could do with this one. Instantly, I knew flocking was the way forward to represent carpet, so everything was painted Matt black, various areas were masked off and charcoal-coloured flocking was applied where appropriate. All this seemed a little too dark, so to brighten up the area I went for Zero Paints Bordeaux Ferrari red leather for the seats, centre console, door rests and steering-wheel trim. After careful masking and colour work on the seats, I added some Hobby Design seat belt clips to finish off the look and popped in the chrome insert. To add the final touches, I painted white dots across all switches and buttons on the dash, steering wheel and centre console bringing the various areas to life and giving purpose to those lovely details. Did I go cross eyed and gain a headache? Yes I did, but it was all worth it.

### FINISHING UP

The finishing line was approaching, so that meant it was time to prepare the final details like wheels, windows, front and rear lights, mirrors, windscreen wipers, plus marrying the chassis to body. I like the standard wheels and the way Tamiya have designed them in two parts, but they didn't quite suit the mild custom effect I wanted. So all four chrome rims were dropped into a jar of bleach, which stripped them almost instantly. They were then airbrushed with LP-1 gloss black with the inserts being painted LP-3 Flat black. The gloss and matt contrast was subtle but seemed to work and more importantly, suited the final, sleek sporty look much better. (In the article photos you can see the car wearing the Hobby Design 19" Enkei wheels with 19" Bridgestone Potenza tyres, both from [www.hiroboy.com](http://www.hiroboy.com))



Body colour of choice, Zero Paints Matt Storm Grey ZP-1612. After several light layers, all body panels were ready. The colour really suits the Supra's lines and enhances the curved angles well.



These varied thickness lines are great. They are available in a variety of colours from [www.hannants.co.uk](http://www.hannants.co.uk)

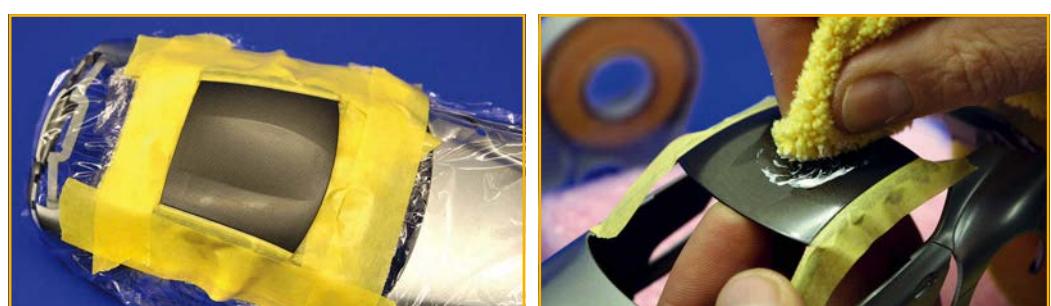
The author found a single layer to be a little transparent, so a second layer was applied directly over each line for more solid finish



The diffuser was dry-fitted after all of the carbon-fibre work was applied. A real task but well worth the time taken. This will be gloss cleared to contrast against the body



Zero Paints two-pack Matt Clear was mixed as instructed then applied over the Storm Grey body parts



With the roof alone covered in Scale Motorsport Hi-Def carbon pattern, this was now masked off then two-pack gloss cleared to contrast with the matt



Once cured, the roof was sanded smooth then hand polished to a showroom shine using Scholl Concepts machine compound



Above left, we see the Hobby Design wheel set and tyres, in the centre the two styles together and the standard kit wheels/tyres above right

## FULL-BUILD: STREET CAR

TAMIYA 1:24 TOYOTA GR SUPRA • KIT NO.24351

### FINAL THOUGHTS

This model inspires you to get creative. It can be easily built in no time at all, keeping it simple, or you can take your time and make it your own. What I built came right out the box with a few simple additions, just to show an idea of where you can take it. I'm sure there will be many brilliant GR Supra build versions out there still to come, I hope my one will inspire others out there to dare to be different and try something new! ●

### TECH SPECS...

TAMIYA 1:24 TOYOTA GR SUPRA  
KIT NO.24351

#### Materials:

Injection-moulded polystyrene, polycaps, photo-etched metal badges, synthetic rubber tyres, waterslide decals

#### Paints used:

- Zero Paints: Primer, Matt Storm Grey (ZP-1612), Jet Black, Titanium Silver, Titanium Gold, Chrome, Aluminium, Matt Black, Bordeaux Red Leather, 2-pack Matt clear, 2-pack Diamond gloss clear
- Tamiya Lacquer Paints: LP-1 Black, LP-2 White, LP-3 Flat Black, LP-5 Semi Gloss Black, LP-63 Titanium Silver, X-8 yellow, X-10 silver
- Tamiya: Black Panel line Accent Color

#### Accessories used:

- Zero Designs: Charcoal flocking powder (ZD-FL006)
- Scale Motorsport: 1:24 Twill Weave carbon decal (1024), Hi-Def weave Quad colour carbon decal (1524)
- Xtradecal XPS5 Parallel yellow stripes
- Hobby Design: 19" Enkei RS05RR wheels (HD03-0431), 19" Bridgestone Potenza RE010 tyres (HD03-543), 1:24 seat belt socket (HD03-0166)

#### 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)
- Hobby Design, Zero Paints, Zero Designs: [www.hiroboy.com](http://www.hiroboy.com)
- Scale Motorsport: [www.scalesmotorsport.com](http://www.scalesmotorsport.com)
- Xtradecal: [www.hannants.co.uk](http://www.hannants.co.uk)



In the image below, we see the Supra in the standard kit wheels, which look great, but the 19" Enkei rims from Hobby Design (above) add an extra touch of attitude



# LANDROVER LH36D RANGEROVER CLASSIC '92 added to the line up!



Scale: 1/24

New Tooling Added

Scheduled for release in 2020

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**FULL-BUILD: WORLD WAR TWO AXIS AVIATION**

TAMIYA 1:32 MITSUBISHI A6M2B ZERO (MODEL 21) 'ZEKE' • KIT NO.60317

# トラ・トラ・トラ! TIGER TIGER TIGER!



**Nat Wale Plaia** applies his skills with paint and surface effects to Tamiya's 1:32 A6M2b Zero, depicting pilot Tsuguo Matsuyama's aircraft as it appeared on the IJN carrier *Hiryu* before the attack on Pearl Harbor December 7th, 1941



## FULL-BUILD: WORLD WAR TWO AXIS AVIATION

TAMIYA 1:32 MITSUBISHI A6M2B ZERO (MODEL 21) 'ZEKE' • KIT NO.60317



A poor quality but highly significant photo showing an Imperial Japanese Navy Mitsubishi A6M2 Zero fighter on the aircraft carrier Akagi during the Pearl Harbor attack mission  
Photo: public domain



Pilot Hirano's Zero crashed into Fort Kamehameha's (a United States Army military base that was the site of several coastal artillery batteries) ordnance shop. The Zero's tail, still displaying carrier Akagi markings, was largely intact  
Photo: National Archives



Petty Officer Shigenori Nishikaichi's Zero 'AH-01' shown ten days after it crashed  
Photo: public domain

**T**hinking about the Zero fighter reminds me of my childhood. It has always been one of my favourite subjects among the single-engined planes. I remember very well that the kit that conquered my imagination was the old Revell in 1:72 model which, to my child's eyes, was the one that best 'captured' the agile silhouette of the fighter from 'Tora, Tora, Tora' fame and for me, was the start of my Zero addiction. I had shelves to fill with Zeros, and I achieved it! The new series of spectacular Tamiya kits in 1:32 could not fail to include some 'Katanas' and here is a mega-kit, not only in my favourite scale, but also one of the machines that participated in the attack on Pearl Harbor.

### THE KIT

A dear modeller friend who had owned the kit for a long time told me about the superb fit of parts. What I greatly appreciated about this kit was its design and one part in particular, K21, which is inserted above the two semi-fuselages. In practice it is enough to fix it in position after having glued the fuselage and it leaves no joint line, becoming one with the fuselage itself, as if it were a single component. The very fine panel lines are of different thicknesses and depths as are the rivets; this subtlety immediately stimulated in my thoughts of weathering techniques, of which I will write later. Nothing is missing in the box; photo-etched and synthetic rubber parts, plus the nifty conversion steps that make the original box into a storage and transportation module.

### PLANNING THE BUILD

Beginning to plan the assembly, I immediately thought of getting myself some after-market sets, but only to increase the realism of the finish, certainly not to change what is already perfect from the box. Eduard (32585) for the cockpit, and HGW (item 132504) for the seatbelts were chosen almost mandatory. In particular the belts fascinated me: photo-etched and textile parts beautifully soft so to allow their natural laying



# FULL-BUILD: WORLD WAR TWO AXIS AVIATION

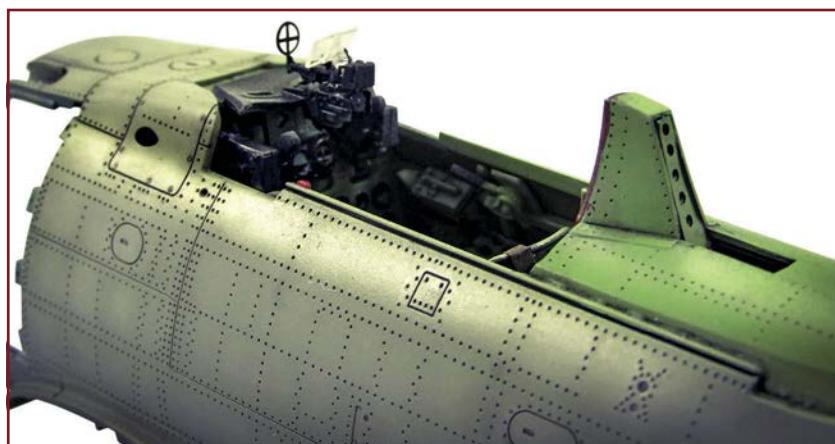
TAMIYA 1:32 MITSUBISHI A6M2B ZERO (MODEL 21) 'ZEKE' • KIT NO.60317

of fuselage was painted in 'Blue Black', like the engine cowling, the colour indicated in the instructions as X-18 Semi-Gloss Black. I decided not to follow the instruction booklet and to prepare my own mix of XF-1 Flat Black (2/3) and XF-8 Flat Blue (1/3) with just a drop of XF-19 Sky Grey. This is the basic mix and had added to it a very small amount XF-19 Smoke, just to give a slight highlight to the parts in Blue Black I mentioned earlier.

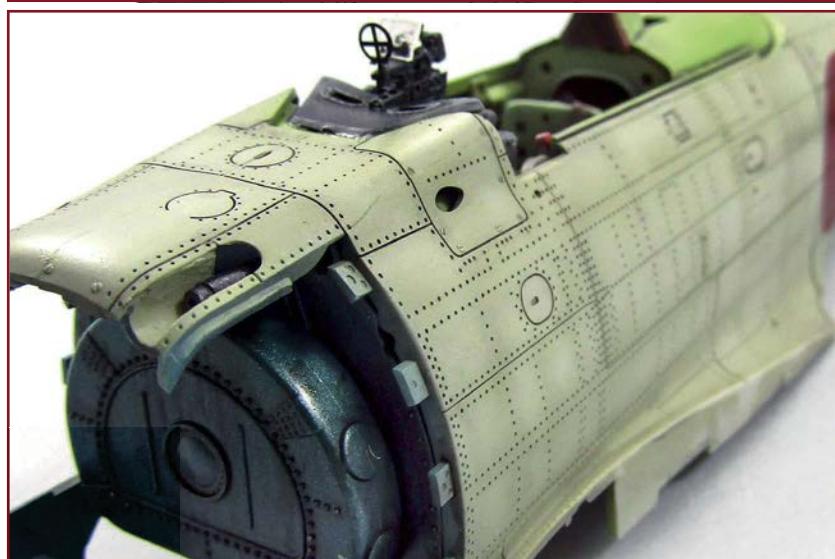
## CONSTRUCTION OUTLINE: SUB-ASSEMBLIES

The assembly steps shown in the instruction booklet seem close to the assembly sequence of the real thing. The cockpit, wheel wells and Nakajima Sakae Model 12 engine constitute the only large sub-assemblies of the kit. As I mentioned previously, the general fit-of-parts is perfect. It was even fun to leave the undercarriage's shock absorbers working.

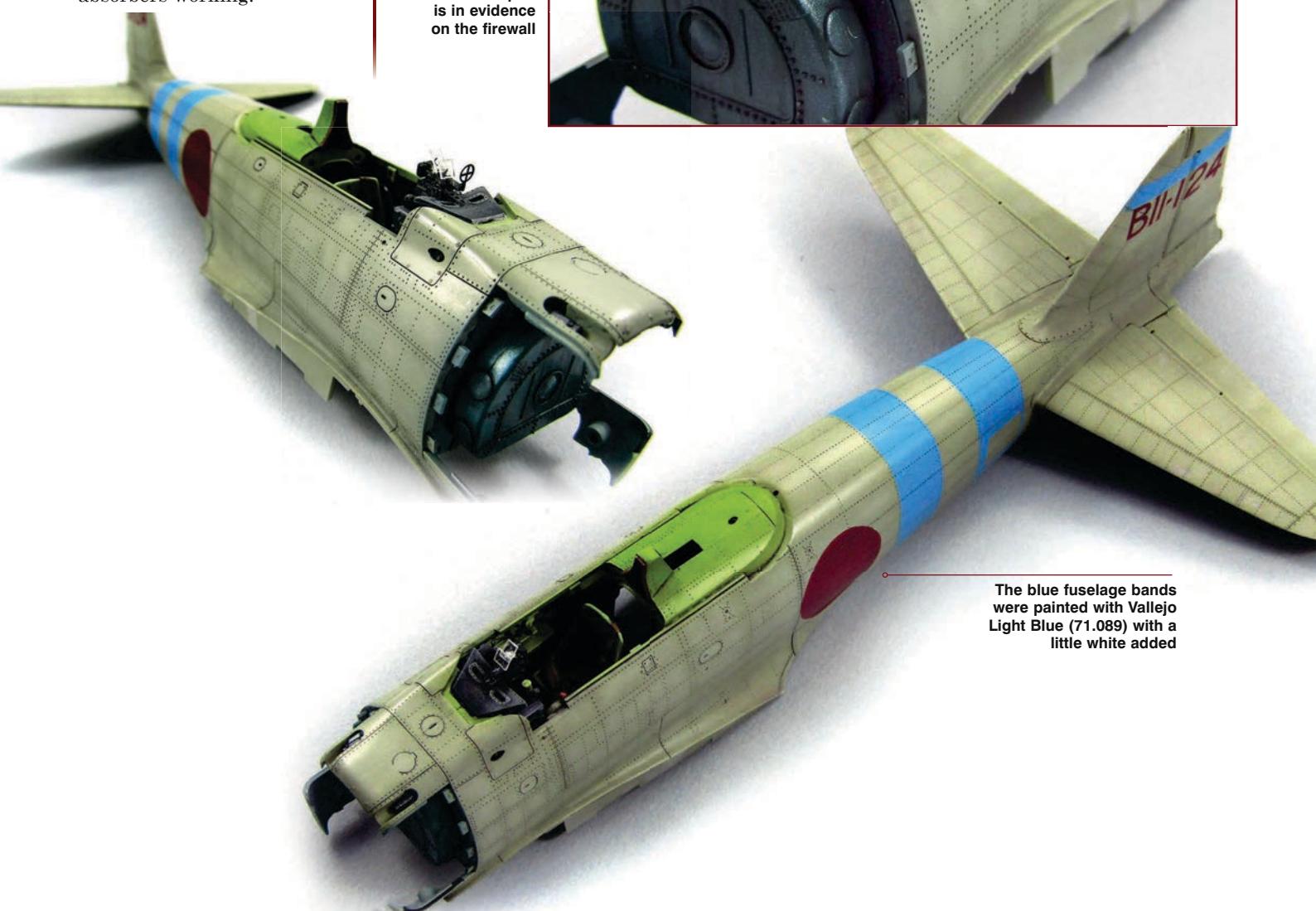
With the fuselage halves together, the Zero is really starting to take shape. Note the colour behind the cockpit aperture



The green/blue aotake lacquer is in evidence on the firewall



The blue fuselage bands were painted with Vallejo Light Blue (71.089) with a little white added

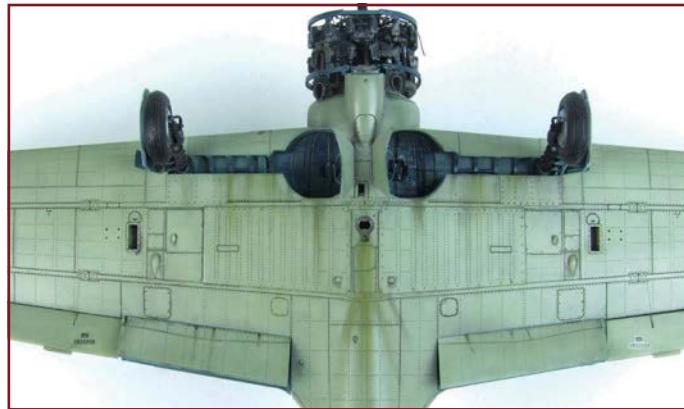




With the canopy slid right back, the wonderful detail in the cockpit can be clearly observed



The main undercarriage is spring-loaded in the kit and the overlapping sections of the UC door are accurately depicted



Underside views showing moderate amounts of oil streaks; these aircraft would have been kept quite clean by the carrier deck crews

#### DETAILS PAINTING

For the weapons, I used a base-coat of XF-1 Flat Black over which I rubbed 'Steel' pigment powder from Uschi Van Der Rosten, using a Q-Tip. The Sakae 12 engine's cylinders received the same treatment; the cooling fins were given a slight drybrushing with aluminium powder. The propeller was primed with Alclad II Black Primer. The black rear-faces of the blades were masked off with Tamiya tape,

before receiving two layers of Alclad II Aluminium. The red bands on the prop blades had previously been painted with Flat Red and adequately masked off. The blue bands on the fuselage, on the other hand, were painted with Vallejo Air Light Blue (71.089), with a drop of white added. The Hinomaru were painted with Montex masks, using Tamiya XF-7 Flat Red, slightly darkened with little XF-64 Red Brown.

#### THE PAINTING PROCESS

Modern image processing on vintage photos has often been referred to as '+beige' the colour we have so far all known modelling as 'IJN Gray'. Personally, when I paint a model I care a lot not only for the 'historical' truth, but also for the scale of the model itself; I think the lightening of the colours (even the basic ones) must reflect the size of the model itself.

Working on the following tones (shadows and highlights) a basic tone is, in my opinion, fundamental. I prepared a mix composed of: XF-12 IJN Gray (85%) - XF-52 Flat Earth (10%) and XF-19 Sky Gray (5%). I sprayed the base colour diluted 60% with 95% alcohol. The pigmentary texture of the Tamiya colour, once dry (about two hours) was eliminated by rubbing the whole model very gently with a clean cotton cloth, to obtain a slightly burnished, natural-looking finish. All the panels and the central

parts of the intersections of the rivets were lightened by simply adding a drop of XF-2 Flat White to the base colour, very diluted with 95% alcohol.

#### WEATHERING AND, OH, WASHES!

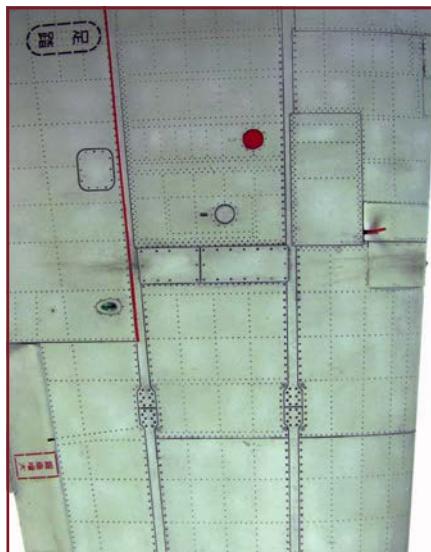
Yes, I'm the man of 'strong' contrasts! I've always liked them but, in the presence of such well designed kit, my 'constructive' weathering libido was positively slowed down by some key factors:

1. The scale of 1:32: a generously proportioned kit. It didn't require excessive weathering that would inevitably have covered some of the magnificent detail.
2. The subject: this machine was based aboard on the *Hiryu* aircraft carrier just at the dawn of the attack on 7th December 1941; still clean, therefore, albeit with a worn appearance.
3. Chemical properties of colours: my ultimate aim is to visualize the finished result. I always start from



# FULL-BUILD: WORLD WAR TWO AXIS AVIATION

TAMIYA 1:32 MITSUBISHI A6M2B ZERO (MODEL 21) 'ZEKE' • KIT NO.60317



● this point before starting weathering. No matter what I use, whether they be acrylics, enamels or oil colours, I protect the model well with varnish, trying not to thicken the basic colour.

The paneling and rivets on the sides of the fuselage received pin-washes using black Tamiya Panel Line Accent Colour, further diluted with enamel thinner of the same brand. The portions of the wings closest to the fuselage instead received pin-washes with a blue-black colour obtained by mixing two tones from the Vallejo Model Colour range, heavily diluted with tap water.

The excess colour was 'cleaned' off with a Q-Tip, moistened in water. This technique allows one to leave an almost imperceptible halo, giving a pictorial sense of wear to the areas near the engine and to the fluids carried away by the

flow of the propeller. As I approached the tip of the wings I added a very small amount of grey to the Tamiya enamel wash, thus recalling the grey and bluish components of the base colour. A little colour theory doesn't hurt!

## FINISH

I didn't seal the model once it was finished. From experience I know that using Vallejo washes in some parts, thanks to their polyurethane component, leaves a very thin translucent patina on the model, once the excesses has been cleaned away. This, in some cases, constitutes a slight protection in itself, leaving to the judgment of the modeller whether to proceed with layers of transparent or not. ●

## TECH SPEC...

TAMIYA 1:32 MITSUBISHI A6M2B ZERO (MODEL 21) 'ZEKE' KIT NO.60317

### Materials;

Injection-moulded polystyrene, polycaps, photo-etched metal, synthetic rubber tyres, waterslide decals

### Paints used:

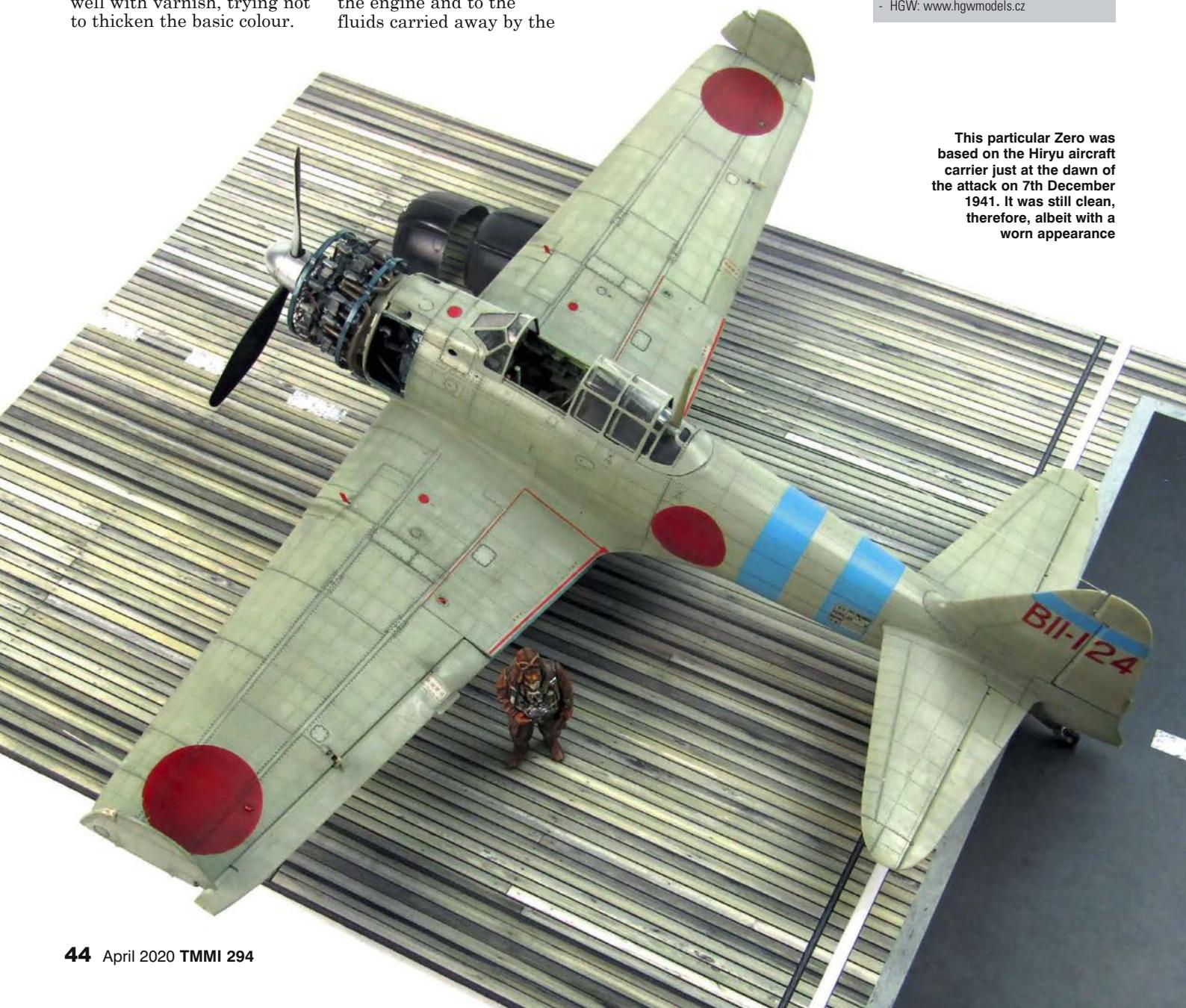
- Tamiya Acrylics; X-18 Semi-Gloss Black, XF-1 Flat Black, XF-8 Flat Blue, XF-19 Sky Grey, XF-19 Smoke, XF-7 Flat Red, XF-64 Red Brown, XF-12 IJN Gray, XF-52 Flat Earth, XF-19 Sky Grey, XF-2 Flat White
- Vallejo Air

### Accessories used:

- Eduard 1:32 A6M2 Zero type 21 interior (32585)
- HGW A6M Zero Zeke - Seatbelts (132504)
- Alclad II: Aluminium

### 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)
- Eduard: [www.creativemodels.co.uk](http://www.creativemodels.co.uk)
- HGW: [www.hgwmodels.cz](http://www.hgwmodels.cz)



This particular Zero was based on the Hiryu aircraft carrier just at the dawn of the attack on 7th December 1941. It was still clean, therefore, albeit with a worn appearance



**AMATI**  
— est. 1879 —



*The Italian way of modeling*



# GERMAN BATTLESHIP **BISMARCK**

Kriegsmarine 1941

Made in Italy by Amati



**1:200** Length 127 cm.  
Height 29,2 cm.  
Width 18,2 cm.

**Item 1614**

Plank on frame  
Wooden decks

2266 photoetched parts included

16 plywood laser sheets

Building instructions in  
2 colour volumes



# New Releases

# Accessories

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



## EDUARD, CZECH REPUBLIC

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

With Tamiya's P-38 now in circulation, modellers' thoughts might be turning to the Mitsubishi G4M Betty bomber, Admiral Yamamoto's example of which was famously shot down by P-38 Lightnings of the US Thirteenth Air Force. Perhaps with this scenario in mind, Eduard have released a neat interior detail set which includes a stunning pre-coloured instrument panel, plus other useful items.

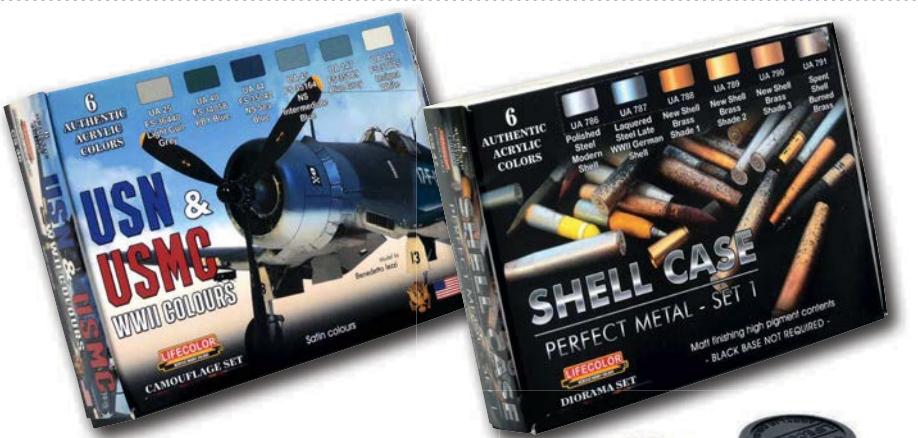
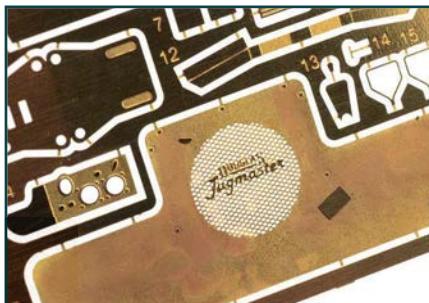
Tamiya's 1:32 P-51D is an excellent model and it too gets a neat interior, with instrument panel and heaps of other parts. **MN**

**EDUARD PHOTO-ETCH 1:48**

**G4M BETTY INTERIOR (491044) FOR TAMIYA**

**EDUARD PHOTO-ETCH 1:32**

**P-51D INTERIOR LATE SER. 20-35 (32955) FOR TAMIYA**



## LIFECOLOR, ITALY

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

Two new six-packs of acrylic paints are on release from this prolific Italian paint-producer. Six colours for WWII United States Navy and United States Marine Corps will provide all you need for the early two-colour, mid-war three-colour and late-war one-colour USN and USMC schemes, providing Light Gull Grey, PBY Blue, Sea Blue, Intermediate Blue, Blue-Grey and Insignia White.

For one-shot metallic finishes on a variety of ammunition cases, we have Polished Steel, Lacquered Steel, New Shell Brass 1, 2 and 3 plus Spent Shell Brass. The pack states 'black base not required' but from experience, a smooth (ideally gloss) undercoat will usually help metallics to look their best.

Top quality acrylic paints that spray beautifully and can be hand-painted too. **MN**

**USN AND USMC WWII COLOURS (CS46)**

**SHELL CASE PERFECT METAL SET 1 (CS47)**



## BRENGUN, CZECH REPUBLIC

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

This is more of a full kit than an accessory, but we ran out of space in the 'New Releases Kits' section this month! And what a lovely little kit it is; cast in fine grey resin with photo-etched details, waterslide decals and clear acetate dials, the model depicts the Douglas Tugmaster carrier-deck tractor in use by the post-war British Royal Navy. Once the large casting plugs have been sawn off, the model should be quick to assemble and the key to bringing it to life will be in the painting and weathering. Fabulous! **MN**

**1:48 ROYAL NAVY TUGMASTER DECK TRACTOR (BRS48013)**

# P-51D Mustang

1/48

block D-10 and higher



**ProfiPACK**  
edition

PE-Sets and painting mask  
Decals for 6 marking options

## Available accessories:

- 481000 P-51D (PE-Set)
- FE1021 P-51D seatbelts STEEL (PE-Set)
- 644030 P-51D-10 LööK (Brassín)
- 644031 P-51D-15+ LööK (Brassín)
- 648233 US 108gal paper tanks (Brassín)
- 648238 US 75gal metal drop tanks (Brassín)
- 648485 P-51D exhaust stacks (Brassín)
- 648486 P-51D exhaust stacks w/ fairing (Brassín)
- 648487 P-51D Hamilton Standard propeller (Brassín)
- 648494 P-51D wheels diamond tread (Brassín)
- 648495 P-51D undercarriage legs BRONZE (Brassín)
- 648503 P-51D wheels oval tread (Brassín)
- 648504 P-51D wheels cross tread (Brassín)
- 648505 P-51D wheels block tread (Brassín)
- 648511 P-51D wheels diamond tread 2 (Brassín)
- 648512 P-51D wheels rhomboid treat (Brassín)
- 648513 P-51D wheels pointed cross tread (Brassín)
- 648514 P-51D wheels grooved (Brassín)
- 648517 P-51D gun bays (Brassín)
- 648522 P-51D cockpit (Brassín)
- EX663 P-51D TFace (Mask)
- SIN64865 P-51D ESSENTIAL (BIGSIN)

**eduard**



P-51D-15, 44-15041, Lt Col. John C. Meyer, 352nd FG, 8th AF, Y-29 Asch, Belgium, December 1944



P-51D-15, 44-15459, Capt. John J. Voll, CO of 308th FS, 31st FG, 15th AF, San Severo, Italy, November 1944



P-51D-20, 44-63607, Lt Col. Glenn T. Eagleston, CO of 353rd FS, 354th FG, 9th AF, Y-64 Ober Olm, Germany, April 1945



P-51D-20, 44-72218, Lt Col. John D. Landers, CO of 78th FG, Duxford, United Kingdom, March 1945



P-51D-10, 44-14221, Maj. Pierce W. McKennon, CO of 335th FS, 4th FG, 8th AF, Debden, United Kingdom, April 1945



P-51D-20, 44-63984, Maj. James B. Tapp, CO of 78th FS, 15th FG, 7th AF, Iwojima, May 1945

March 2020 release

Cat. No. 82102 @ [www.eduard.com](http://www.eduard.com)

# New Releases

# Accessories

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

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## LIVE RESIN, RUSSIA

Live Resin have created a line of crew figures and equipment to fit out a 1:35 Pave Hawk helicopter and the results are spectacular. The masters were designed in 3D software so the detail is pin-sharp, with evidence of build-lines in only a few places and those are easily sorted out with a little filler and light sanding. **MN**

**1:35**

**HH-60G PAVE HAWK HELICOPTER CREW SET: DOOR GUNNER RIGHT SIDE, UH60 EXTERNAL GUN MOUNT SYSTEM (LRM35027)**



## MJ-MINIATURES, KOREA

Whether it be a Sherman, a Stuart, a Lee or any other tank of WW2, the US army retained tools by running straps through 'footman loops' welded to the vehicle body. These straps are always difficult to accurately portray on a model, but MJ-Miniatures have produced a product with will completely change how we approach the problem, with sensational 3D printed resin straps of different shapes and sizes. In the box we have 196 straps produced in incredible detail and absolutely to scale. The loops are different sizes, some slightly hanging, others tighter, so that the modeller can select straps for the required tool. Without doubt, these are simply stunning, and I am certain they will quickly become a default item for modellers seeking the most accurate appearance. **CLS**

**1:35 WWII US CLAMP TOOL SET (MJEZ35002)**

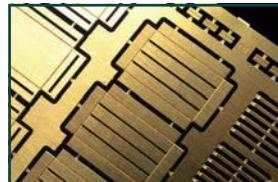
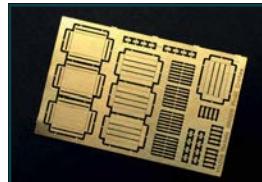
**1:35 WWII GERMAN CLAMP TOOL SET (MJEZ35001)**



## MATHO MODELS, BELGIUM

This set of fruit crates comes in the form of a photo-etched brass fret which simply needs folding up into shape and the handles adding. The thin section of the 'wooden' strips adds an extra touch of refinement. Note that the items of fruit are not included. **MN**

**1:35 FRUIT CRATES (35089)**



## KAZAN MODEL DYNAMICS, CANADA

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

We took a look at Kazan Model Dynamics' Tomcat undercarriage set last month and here is the first of the company's sets for Eduard's new-tool P-51D Mustangs. The detail is wonderful and even improves on Eduard's own stunning model parts, if that's possible. As with the F-14 set, the legs have metal rods cast internally for rigidity so your Mustang won't be sitting on Salvador Dali-esque UC in years to come. Three sets of tyres are provided with square, cross and diamond tread patterns and in theory, one could mix the types as this is sometimes seen in wartime photographs. The tyres do not feature weighted bulges, which some modellers prefer. **MN**

**1:48**

**LANDING GEAR FOR THE P-51 MUSTANG SET 1 (KLG4803EDU) FOR EDUARD**

**LANDING GEAR FOR THE P-51 MUSTANG SET 2 (KLG4804EDU) FOR EDUARD (SHOWN)**





USN F-14A VF-143 Pukin' Dogs

PKAY12563

NEW

### Pz.Kpfw.I Ausf.A



1/16  
PzKpfw I Ausf A  
PKTAK01008

TAKOM

1:16

NEW

### AK-130

RUSSIAN NAVY 130MM AUTOMATIC NAVAL GUN



Russian AK-130 Automatic Naval  
Gun Turret

PKTAK02129

NEW



King Tiger Late Production Sd.Kfz.182

PKTAK02130

NEW



40N6 of 5IP6A Tel S-400

PKTM01057

NEW



Junkers Ju 87B-2 Stuka

PKTM02421

NEW



H-34 US Marines (Ex-Gallery)

PKTM02881

NEW



TITANIC with LED Light Set

PKTM03719

NEW



AVRO Vulcan B Mk 2

PKTM03931

NEW



USS Langley CV-1

PKTM05631

1:350

Also available!  
Upgrade set for USS Langley

Parts for USS Langley CV-1	PKTM06646
includes:	
• photo-etch parts	
• wooden deck,	
• chain	
• diecut paint mask	
Mod. Set 1	
Mod. Set 2	
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# New Releases

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

## What's in the box?

**AD:** ACETATE DIALS, **AP:** ACRYLIC PAINT, **CC:** CAST CERAMIC (PLASTER), **CMA:** CAST METAL ALLOY, **CP:** CHROMED PARTS, **CPS:** CLEAR PLASTIC SHEET, **DT:** DRY TRANSFER (DECALS), **EM:** ELECTRIC MOTORS, **LLT:** LINK AND LENGTH TRACKS, **MC:** METAL CHAIN, **MMA:** MACHINED METAL ALLOY, **MR:** METAL ROD, **MT:** METAL TUBING, **MW:** METAL WIRE, **NM:** NYLON MESH, **PB:** PAINT BRUSH, **PCM:** PRE-CUT MASKING FILM, **VF:** VINYL FIGURES, **VFP:** VACUUM FORMED (PLASTIC), **WC:** WOVEN CORD, **WD:** WATERSLIDE (DECALS), **WS:** WOODEN STRIP



### BRENGUN, CZECH REPUBLIC

#### EXTRA 300L/330LC

[www.brengun.cz](http://www.brengun.cz)  
SCALE: 1:72 • MATERIALS: IM, WS • ITEM NO.BRP72040

The Extra 300L is arguably the most well known aerobatic aircraft currently in use and can be seen performing seemingly physics-defying manoeuvres at air shows around the world. It was designed back in 1987 by Walther Extra and is powered by a 300hp, fuel-injected Lycoming six-cylinder, horizontally opposed engine which is more than enough to propel the tiny, steel tube and aluminium airframe at improbable speeds and through stomach-inverting stunts.

With such fame it is perhaps surprising that so few kits of the Extra exist, but Brengun have put that right with this delicious little 1:72 model which as you might imagine, is rather tiny in this scale. It comes moulded across two sprues of grey polystyrene with a single canopy part in clear plastic, plus waterslide decals for two schemes, one in red and white for a 330LC plus a blue and white 300L. The twin cockpit is somewhat spartan but this just reflects the real thing and all the basic components are present, including instrument panel, control columns, rudder pedals, and representations of sidewall structures. Modellers will need to add their own seat harnesses (an absolute must-have on a stunt plane!), but this is no big deal. Once built, painted and the fuselage halves closed up, there is more than enough to see through that huge canopy.

- + Superb subject, lovely detail inside and out, very attractive markings-options
- Clear canopy part is loose in the sprue bag and might need a polish



### ITALERI, ITALY

#### FREIGHTLINER FLD 120 SPECIAL

[www.hobbyco.net](http://www.hobbyco.net)  
SCALE: 1:24 • MATERIALS: IM, CP, SVT, WS • ITEM NO.3925

The main parts of this kit first saw the light of day in 1995 but when it comes to Italeri's truck kits, this is no problem at all because they were ahead of their time in terms of detail and refinement. With some new parts in 2002 that transformed the model's appearance quite noticeably and now some new decals, Italeri's big Freightliner has stood the test of time exceedingly well and will build into a stunning model with masses of 'presence'. Talking of decals, if the flaming eagle and graphic conflagrations along its sides don't appeal, this edition of the kit is also provided with perhaps more prosaic but far more attractive markings in the form of a livery for 'Gally Transportation, Quincy, IL' and it will look far better with them, in this reviewer's opinion at least. The simple but stylish blue/orange/blue stripes offer a far better flavour of Americana than the aforementioned roasted raptor and let's face it, when building US semi-trucks, we are trying to recreate the atmosphere of interstate trucking along dusty highways rather than glitzy show-trucks, surely? The kit comes with a detailed engine, part-by-part ladder chassis, air suspension and a nice interior for the sleeper cab and it represents very good value for money.



- + Fabulously American subject, lots of detail and a hidden gem of a decal option (pictured right)

- Set aside plenty of workbench time for this one!

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



## EDUARD, CZECH REPUBLIC MiG-15BIS PROFI PACK

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

SCALE: 1:72 • MATERIALS: IM, PE, PCM, WS • ITEM NO.7059

Eduard's sublime little 1:72 MiG-15 harks back to 2013 when it was first released in Czech air force guise, which is understandable for this company. In the intervening years the kit has appeared at least fourteen more times, with new parts, decals and accessories to form different versions and operators. Now, in this latest release, we have a ProfiPACK edition which comes with a sheet of pre-coloured photo-etched detail parts that includes instrument panel, side consoles, seat harnesses and more. Also provided is a sheet of pre-cut masks for the canopy, something that will help the modeller to create a perfect finish when painting the MiG's minuscule canopy frames. The surface detail on the airframe parts is staggering in its refinement, with not a trench-like panel line in sight. Lines of fasteners are depicted in the appropriate places but it's kept to an in-scale effect and it looks marvellous. The wing-fences on early MiGs are often a challenge for kit-makers to depict with any degree of finesse but Eduard have done an admirable job in humble kit plastic and only the very fussy modeller will want to thin them down further. To top off this exquisite little model, we are offered markings for North Korean, GDR, Hungarian, Egyptian and USSR air forces.

**+** Gorgeous detail and superb markings choices

**-** Just add your own nose-weight

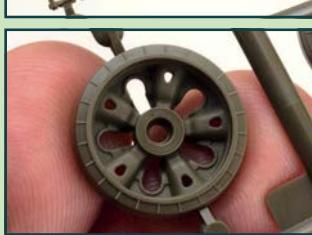
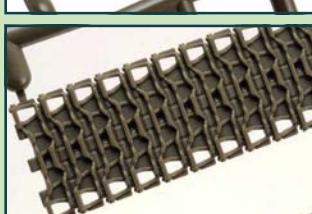


## TAMIYA, JAPAN T-55 RUSSIAN MEDIUM TANK

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

SCALE: 1:48 • MATERIALS: IM, WS, WC • ITEM NO.32598

Tamiya released the 1:35 kit of the T-55 back in 2003 and the TMMI article on it (Issue 097 April/May 2003) was one of our most popular. Now, seventeen years later, we have a 1:48 kit of the vehicle, but was it worth the wait? The answer must be a big 'yes'. The scaled-down kit barely compromises on detail, the only main structural change from the 1:35 being the use of moulded-in suspension swing-arms instead of individual arms. The other notable difference is the inclusion of link-and-length tracks instead of the pair of one-piece flexible items as found in the 1:35 T-55's kit box. This is an all-round better solution as it allows the modeller to easily depict the natural upper-run 'sag', a feature very prominent on this particular tank. As with its larger cousin, the turret sports a very realistic-looking cast steel texture on its outer surfaces, with appropriately smooth finishes on the twin semi-circular plates welded into the turret roof. The fender-mounted fuel cells are individual parts but the modeller will need to make their own fuel-lines that interconnect each tank. Beautiful representations of the DShK defensive machine gun and turret-mounted searchlight top off this stunning little model; all we need now is a T-55 in 1:16 RC to complete the line-up!



**+** Fantastic detail with almost no compromise in detail from the 1:35 kit

**-** Fuel cell hoses/ connectors will need to be fabricated

# New Releases

# Kit Reviews

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

## What's in the box?

AD; ACETATE DIALS, AP; ACRYLIC PAINT, CC; CAST CERAMIC (PLASTER), CMA; CAST METAL ALLOY, CP; CHROMED PARTS, CPS; CLEAR PLASTIC SHEET, DT; DRY TRANSFER (DECALS), EM; ELECTRIC MOTOR EPS; EXTRUDED 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 ALLOY, MR; METAL ROD, MT; METAL TUBING, MW; METAL WIRE, NM; NYLON MESH, PB; PAINT BRUSH, PCM; PRE-CUT MASKS, PE; PHOTO ETCH, PEBM; PHOTO-ETCHED BADGES/MIRRORS, PMP; PRE-ASSEMBLED METAL PARTS, PS; PAPER STRIP, R; RESIN, SVT; SOFT VINYL TYRES (OR TUBING), VF; VINYL FIGURES, VFP; VACUUM FORMED (PLASTIC), WC; WOVEN CORD, WD; WATERSLIDE (DECALS), WS; WOODEN STRIP



**TAMIYA, JAPAN**  
**MAZDA MX-5 ROADSTER RF**

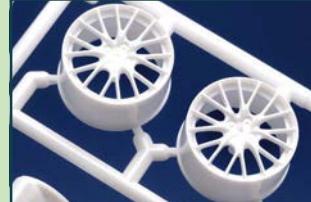
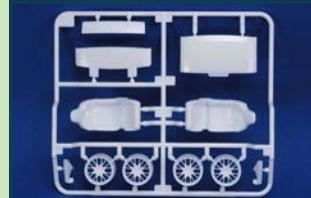
[www.hobbyco.net](http://www.hobbyco.net)

SCALE: 1:24 • MATERIALS: IM, SVT, PC, CP, WS • ITEM NO.24353

The small but funky and fun to drive Mazda MX-5 (known as the Miata in the USA and Roadster in Japan) has been around for many years and the 2016 relaunch is its latest and most advanced version. The 'RF' in this edition's designation stands for 'retractable fastback' as it now has a three-part, folding metal roof – which can open (or close) in just thirteen seconds at the push of a single button – and can be fitted in either position in Tamiya's new 1:24 model. The kit actually depicts the 2017 model-year MX-5 RF which was offered with upgrade options such as Recaro seats, and BBS multi-spoke alloy wheels, both of which are present on a new sprue of white plastic that also carries the roof components. The kit includes parts to construct a righthand-drive Japanese, UK, Australian (and other countries) car or a lefthand drive machine (USA and much of the rest of planet Earth), as well as new side window parts for the hard top to be depicted up or down, metal-plated parts for the light reflectors and other components, decals for the instrumentation plus metal transfers for badges and side mirror-faces. As always, the model is beautifully designed and can be built with confidence by beginners and experts alike.

**+** The cooler version of the MX-5 without doubt and some nice features in the kit

**-** Doesn't come with the female driver-figure that was found in the box of kit No.24342



**TAMIYA, JAPAN**  
**KAWASAKI NINJA H2 CARBON**

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

SCALE: 1:12 • MATERIALS: IM, SVT, PC, CP, MS, WS • ITEM NO.14136

Tamiya's 1:12 Kawasaki Ninja in its 'H2R' circuit-bike incarnation was released back in 2016 to much acclaim and we featured the model in Tamiya Model Magazine, naturally (Issue 256, Feb 2017). Now, we have the Ninja H2 Carbon which is a replica of the 2018 road-going machine with new/revised indicators, rear number plate, side mirrors and upgraded upper cowling, headlights and windscreens. Easily the most visually apparent identifier is the greatly enlarged exhaust silencer which now reaches past the rear wheel hub and splits into upper and lower outlets. It looks like it might be starting to change into a Transformer and it gives the Ninja a brash and bold new look, at the rear at least. It also has an Öhlins rear shock unit and carbon-fibre upper cowl (decals are provided to represent this effect in miniature). Models are even better when they have a 'claim to fame' and the H2 Carbon certainly has one; it is (rumoured, at least) to feature in this year's upcoming blockbuster film Top Gun 2! As with all of Tamiya's 1:12 motorcycle kits, the body parts, engine and swing arm are fitted using miniature screws; the engine is a little masterpiece and a sheet of masking templates is provided to help paint the two-tone effect on the fuel tank.

**+** A second edition of the Kawasaki is arguably cooler than the first, with a huge exhaust and even more carbon

**-** Little to find fault with here; Tamiya's bikes have a legendary status for detail and buildability



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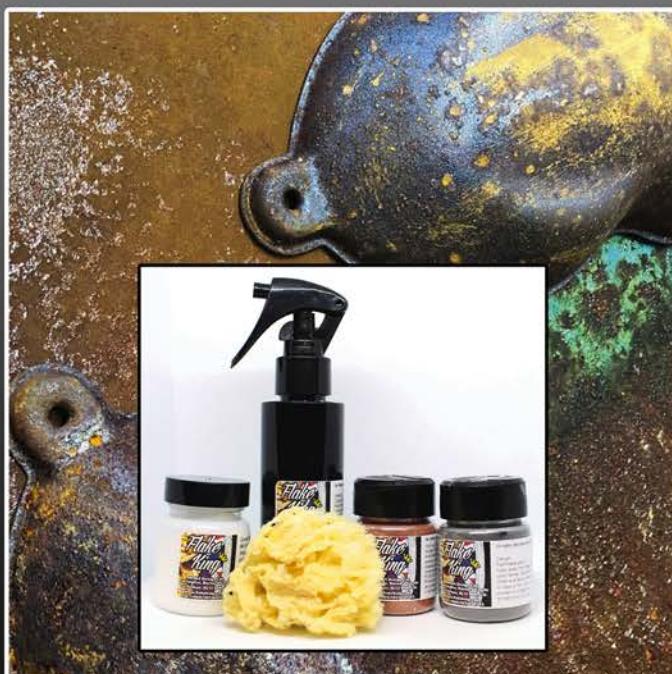
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**FULL-BUILD: WORLD WAR TWO ALLIED FIGHTER**

ICM 1:32 I-16 TYPE 24 WITH SOVIET PILOTS (1939-1942) • KIT NO.32007



**POLIKARPOV DESIGN:  
***BURRO!*****

**Russell Mardling** builds ICM's 1:32 I-16 Type 24 'Donkey' and incorporates a Yahu Models instrument panel and Eduard seat harnesses in the process



**N**ikolai Polikarpov designed aircraft that were the mainstay of The Red Air Force at the outbreak of the Second World War. The Polikarpov I-16 was first flown in December 1933 and was the first production monoplane

in the world to feature retractable undercarriage. The Type 24 had an uprated engine and a reinforced chassis with armour plating around the cockpit. In all, over 6,500 I-16s were produced until being superseded by the Yak-1.

#### ICM'S MODEL

ICM has been producing quality models for some time now, with the latest having very good reviews. This kit of the Polikarpov I-16 Type 24 was originally released in 2017 and has subsequently been re-released by Revell,

albeit with new decals and colour scheme. This particular release comes with three figures of pilots and ground crew. Upon opening the box you are greeted by four sprues of light grey coloured plastic and one clear. Detail is very crisp ➤

# FULL-BUILD: WORLD WAR TWO ALLIED FIGHTER

ICM 1:32 I-16 TYPE 24 WITH SOVIET PILOTS (1939-1942) ● KIT NO.32007



Assembly began with the wing and the components came together quickly, with a single moulding for the lower half with the undercarriage bay and two parts for the top halves

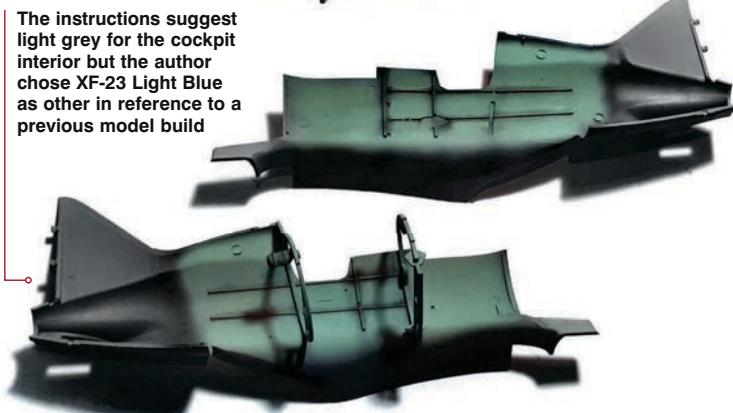
with no flash. The ribbing on the wings is faithfully and subtly reproduced and the cowlings are lovely and crisp together with the well detailed undercarriage. Surprisingly, construction begins with the wings and these parts went together in no time at all, with a single piece representing the bottom half with the undercarriage bay and two for the top half. Once glued together, the two-piece ailerons were completed and attached to the wing. Next was the bottom cowling that was attached to the front part of the wing. Alignment here is important for the rest of the cowlings to fit properly later on in the build. With that, the wing was complete.

## COCKPIT

Next is the turn of the cockpit and the colour call outs are both in Revell and Tamiya shades. I went with Tamiya as is my want. ICM suggests light grey for the interior of the cockpit but having not long finished a model of another Soviet fighter I used XF-23 Light Blue as that seems a more accurate representation of the Russian fighter's 'office'. I started the cockpit differently to the instructions, which would have you attach the seat to the rear frame, but that would be done a bit later on. So I glued the rear frame together with the forward frame onto the side wall, then proceeded to pre-shade all with matt



The cockpit's forward and rear bulkheads and cockpit walls were all undercoated in black in readiness for the final, interior colours



The instructions suggest light grey for the cockpit interior but the author chose XF-23 Light Blue as other in reference to a previous model build



Yahu Models' instrument panel looks fantastic and is a big improvement on the standard kit part



Here we see the I-16's cockpit nearing completion, the Yahu Models instrument panel really enhancing the overall effect

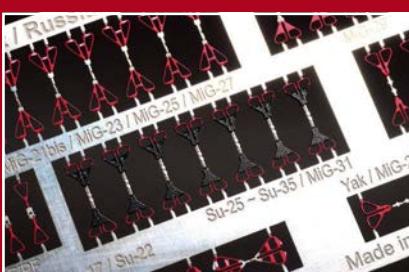
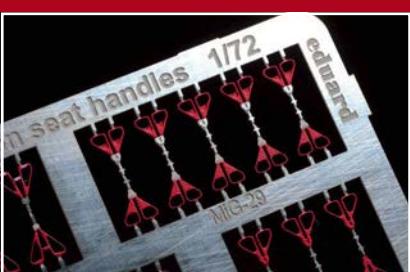
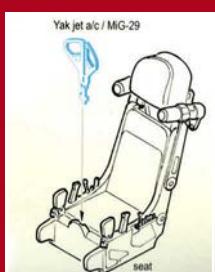


Eduard's superb 'Zoom' photo-etched steel, pre-coloured seat harness provides the finishing touch to the cockpit

## Mini Review...

**EDUARD BIG ED 1:72 SOVIET/RUSSIAN EJECTION SEAT HANDLES (73684) UNIVERSAL**  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk) [www.eduard.com](http://www.eduard.com)

Zvezda – as well as several other companies – offers a range of stunning Soviet and Russian military aircraft kits in 1:72 and one thing all jet-fighters deserve is a realistic-looking ejector seat. After a set of decent pilot's harnesses, the easiest way to sharpen up a seat is to add the ejection pull-handles and these are notoriously tricky to make oneself. Eduard's pack of pre-painted photo-etched brass handles are ideal for this task and are easy to fit.



black together with the other half. This technique is an easy way to create shading without too much fuss. Once painted, I did the same with the cockpit floor.

### PILOT'S SEAT

While these were drying I painted the pilot's seat in the Tamiya light blue with the head rest and padding in matt black and finished off with some drybrushing in grey for definition. With the rudder pedals and storage container painted, I then went back to painting the cockpit with the light blue, carefully spraying areas so as not to obliterate the dark colour to accentuate the shading. The final effect was very satisfying. With that completed, the rest of the components were attached which made a nicely detailed cockpit. The instrument panel on the other hand is another matter. This is moulded in clear plastic so that you have to mask all the clear bezels for the dials then paint it matt black and then use the decal provided to depict the actual dials.

I came to the conclusion that this would be a long and painstaking way to complete this stage so I used a photo-etched instrument panel by Yahu Models that is beautifully detailed and easy to use. I then just had to paint the rest of the clear plastic and the task was completed. After painting the firewall and assembling the fuel tank and ammo chutes which were painted with Alclad II aluminium, it was the turn of the pilot's seat which again was painted in Alclad II. To add more detail, Eduard's excellent Zoom set's photo-etched seat belts were fitted. Cockpit sidewall detail was added and painted and then the fuselage halves were joined together.

### AIRFRAME ASSEMBLY

The fit was great with just minor filling required, using Mr Surfacer 1000. Next the rudder and tailplane were assembled, again with no fit issues at all. The top panel with the machine gun blisters and forward cockpit detail was then installed. Again, the fit was good. With the cockpit doors attached the fuselage was cemented to the wing but this time there was a



The engine is well detailed and was fully painted up by the author, although little of it will be seen once the cowling is fitted

slight issue with the join line on the underside of the fuselage with the wing which required Squadron's excellent filler. The seam was then filled and once dry, sanded with great results.

After fitting the tailplane and rudder I turned to the engine. This has a decent amount of detail once assembled but most of it will be hidden underneath the cowlings with just the front of the cylinders visible through the cooling vents. You can pose the cowlings open but for this build I

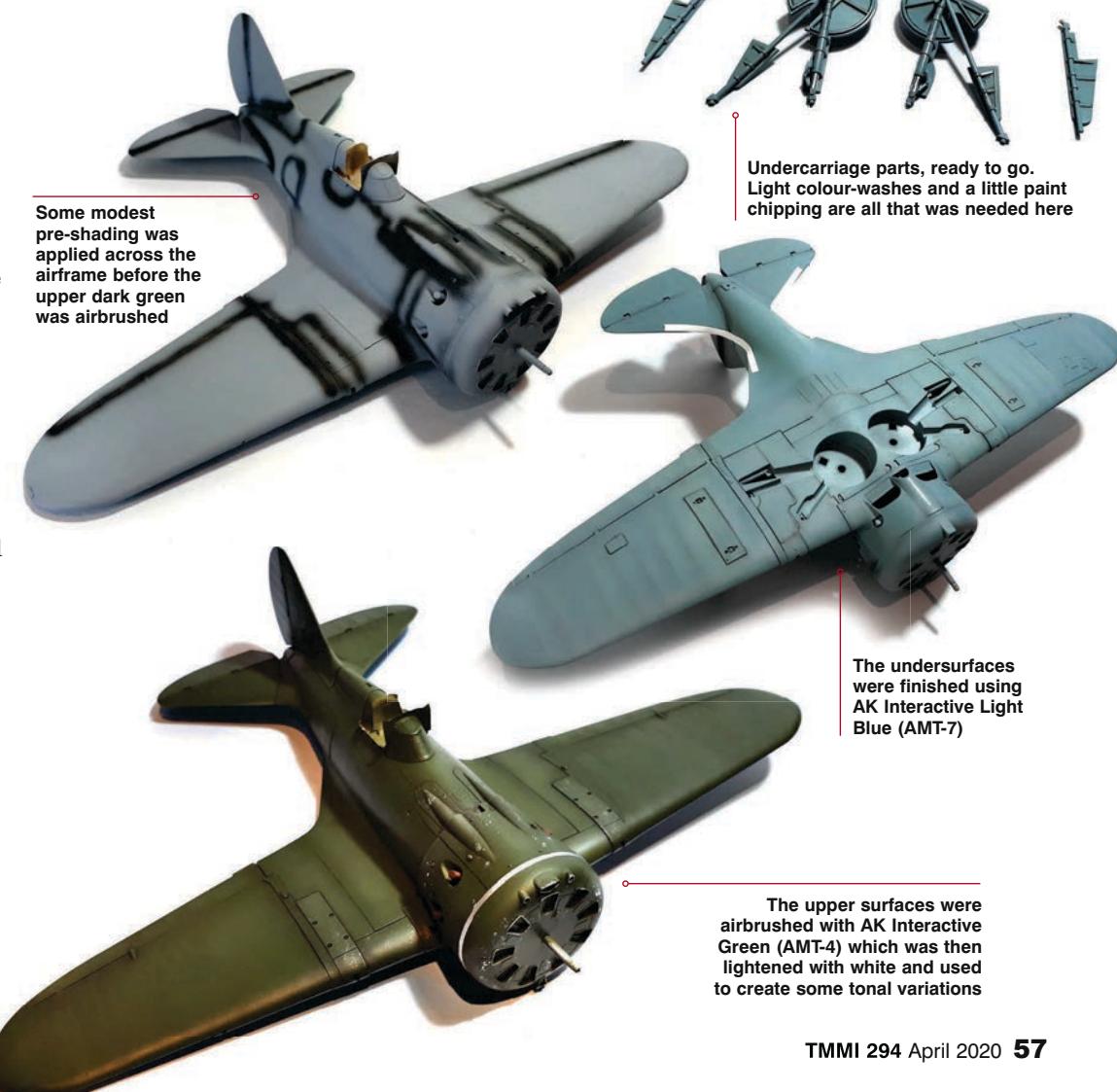
chose to have them closed up. The engine bearers and the rear of the engine are the first to be assembled and care is needed when handling the bearer frames as they are delicate. Next are the engine cylinder heads and ignition harness. All were painted with Mr Hobby Dark Iron from their metallics range and once dry and burnished the results are fantastic. I didn't want to go over the top with detailing after my decision to close up the cowlings so I was happy with the end finish.

### NOW FOR THE TRICKY BIT!

The nine separate exhausts for the engine are very difficult to align. I ended up using a small amount of PVA glue so I had enough time to align the exhausts using the cowlings as a guide. Then, once in position I used my usual Mr Cement S to permanently attach them. With that task completed it was on to the front cowling and propeller. The former gives you the option of posing the cooling



Undercarriage parts, ready to go. Light colour-washes and a little paint chipping are all that was needed here



# FULL-BUILD: WORLD WAR TWO ALLIED FIGHTER

ICM 1:32 I-16 TYPE 24 WITH SOVIET PILOTS (1939-1942) • KIT NO.32007



slats open or closed; as I wanted the engine visible through them the open position was chosen.

The propeller was painted in aluminium and with the spinner was finished in the upper surface colour. The machine guns were then fitted, but these can not be seen so can be omitted if wanted. I fitted them anyway! At this point the rest of the cowlings were cemented into place. When the top cowling was installed there were gaps either side of it, so again, filler was used to fill them. As they were going to be panel lines I didn't want to completely fill them in so I used perfect plastic putty that can applied and the excess wiped away with a wet finger. This worked perfectly.

## LANDING GEAR

The undercarriage was then assembled and painted with no issues. As for the tyres, these are a two-piece affair but as they had no tread on them sanding the seam was made easy. They were then painted Tamiya Rubber Black and the centres

the same colour as the undersides of the aircraft. I then used a colour-wash on the tyres from AK Interactive which gave them a subtle, dusty appearance. With the windscreen glued into place and masked it was time to paint the model. I started as usual with Alclad II Grey Primer which gives the model a great surface for the later coats of paint.

I pre-shaded the model's panel lines with Tamiya Semi-Gloss Black from their new lacquer range of paints. Once dry, I painted first the underside using AK Interactive new real colours range, AMT-7 Light Blue. These lacquer paints performed excellently, drying very hard and leaving a lovely semi-gloss finish. I then used Tamiya Panel Line Accent Color Dark Brown which picked out the subtle detail perfectly.

This was then masked to make way for the upper surface colour, again using AK Interactive AMT-4 Green. I then mixed a little white in with the green so that I could mist over middle of the panels to give more depth to the model.

Once dry a wash with Flory Models Dark Dirt was used to highlight the subtle upper surface details including the ribbing on the wings. I used a small piece of sponge dipped in aluminium to replicate chipping around the cowling and other metal areas. I then used

Alclad II Gloss Coat to prepare the model for the decals which are very glossy with quite a lot of backing film, which I trimmed back with a scalpel. Care had to be taken as they are very thin, but once in place and bedded down with decal solution, they looked very convincing. A couple of matt coats later and the I-16 was nearly complete. With the undercarriage glued into place and the tail wheel



painted and attached, the model was done! This kit was a joy to build, the possible exception being the exhaust stacks. With this level of quality I would quite happily make another one with a different colour scheme. I look forward to building another ICM kit very soon! ●

### TECH SPEC...

ICM 1:32 I-16 TYPE 24 WITH SOVIET PILOTS (1939-1942) KIT NO.32007

#### Materials;

Injection-moulded polystyrene, waterslide decals

#### Paints used:

- Tamiya Acrylics: XF-23 Light Blue
- Tamiya Lacquer Paints: Semi-Gloss Black
- Alclad II: Grey Primer, Gloss Coat, Aluminium
- AK Interactive: AMT-4 Green, AMT-7 Light Blue
- Mr Surfacer 1000

#### Accessories used:

- Yahu Models: I-16 late instrument panel (YMA3232)
- Eduard Zoom: I-16 Type 24 seatbelts Steel (33185)

#### Weathering:

- Flory Models: Dark Dirt
- Tamiya: Panel Line Accent Color (Dark Brown)

#### Availability;

- ICM models are widely available from good model shops and online. [www.icm.com.ua](http://www.icm.com.ua)
- 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)
- Yahu Models: [www.yahumodels.com](http://www.yahumodels.com)



**“This kit was a joy to build...”**



# Book Reviews

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## FAMO'S SD.KFZ.9, 18-TON ZUGKRAFTWAGEN, ARMOURED AND UNARMOURED VARIANTS

NICOLAUS HETTLER, NUTS AND BOLTS NO.43  
[www.nuts-bolts.de](http://www.nuts-bolts.de)

In the twenty years since Nuts and Bolts released their Volume 12 on the FAMO half-track, a lot more information has become available. The release of the completely new Volume 43 is an opportunity to incorporate all of the new information, along with drawings and colour artwork which did not feature in the early issues in this series. Indeed, virtually nothing is in common with the earlier volume and if you have Volume 12, there is every reason to also get Volume 43! In line with the more recent volumes of Nuts and Bolts, the first sixty or so pages cover the technical design, development, production, and use of the vehicle, along with its issue to units. The model releases are also listed, so that the modeller can see what they need for a project. Some of the listed kits and accessories may no longer be available. The next 80 pages have contemporary photos, two or three per page, with detailed captions, covering all versions of the FAMO. This is followed by nearly thirty pages of 1:35 drawings and 3D sketches to illustrate the versions of the half-track and also the Sd.Ah.116 tank transporter trailer. Next we have sixteen colour profiles, each one linked to a particular photograph and showing how the artist has interpreted the black-and-white image. The next forty pages are full of photos of preserved vehicles in museums, giving sharp images of details useful to model-makers. The last few pages show some excellent models, those in 1:35 are all based on the Tamiya kit. All in all, this is an absolutely outstanding book, and essential reading for anyone interested in the 18-ton halftrack, and wanting to add detail to the wonderful Tamiya kit from 1999. **CLS**

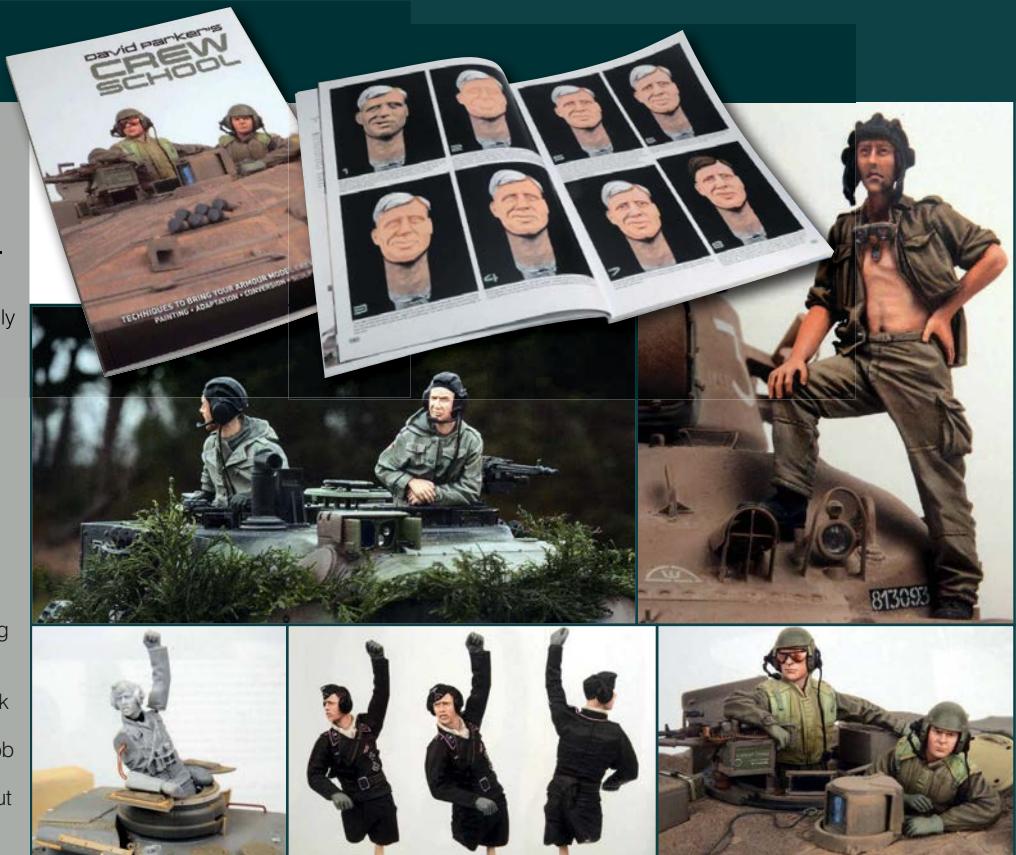


## DAVID PARKER'S CREW SCHOOL

AFV MODELLER PUBLICATIONS  
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There are many of us who feel quietly confident (or at least modestly happy) in our armour modelling assembly, superdetailing, painting and weathering skills, but I'll bet most of us can't say the same about our ability to paint the model's crew figures to a decent standard; I certainly can not. David Parker, one of the UK's most accomplished scale modellers and a man whose seemingly intuitive expertise in AFV crew painting I envy and respect in equal measure, has recently published a book on how to master this frequently infuriating task and it is very welcome indeed.

Perhaps most importantly (for this reviewer at least) the author starts with a four-page photograph/graphic guide (with detailed captions) on the basic steps of shading and highlighting the flesh tones of a model figure's face, arguably the trickiest thing to learn and a process that I will be practising. The book then leads us through the painting of uniform fabrics, adding new heads, re-sculpting and scratchbuilding entire figures and it is an addictive read. This book could be regarded as a workshop manual on this important but sometimes onerous job and I recommend it to those of us who can do the 'metal bits' of a tank with aplomb, but the 'fleshy bits' less so. **MN**





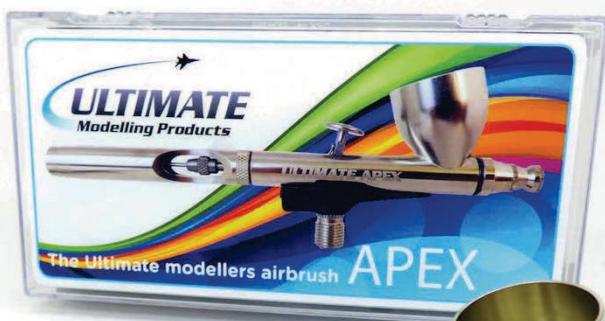
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**THE HOBBY COMPANY LIMITED** Garforth Place, Knowhill, Milton Keynes, MK5 8PG, UK Tel; 01908 605686 Fax; 01908 605666 [enquiries@hobbyco.net](mailto:enquiries@hobbyco.net) [www.hobbyco.net](http://www.hobbyco.net)

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# NEXT ISSUE

The next issue of TMMI is May 2020  
(No.295), on sale April 16th



## ALFA MALE

Tamiya's 1:24 Alfa Romeo 155 gets carbon-fibred



## HOLZJÄGER

A wooden-winged wonder in the form of Tamiya's 1:48 He162 Volksjäger

## PRINTING A PACHYDERM

3D printing an African elephant!



## ...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 listed here are shown on a provisional basis. We endeavour to bring you these articles, but please be patient if they do not feature! Thank you for your understanding.

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

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**Telephone:** +44 (0)1525 222573 **Editorial enquiries:** +44 (0)7904 635 694 **Back Issues:** From £4.60 Inc. P&P Back issues from #75 onwards

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#### CONTACT INFO:

Tel: +44(0)1525 222 573  
Editorial enquiries: +44(0)7904 635 694  
Doolittle Mill, Doolittle Lane, Totternhoe, Bedfordshire, LU6 1QX, UK  
[www.tamiyamodelmagazine.com](http://www.tamiyamodelmagazine.com)  
Editorial email: [editor@tamiyamodelmagazine.com](mailto:editor@tamiyamodelmagazine.com)  
Other enquiries: [enquiries@doolittlemedia.com](mailto:enquiries@doolittlemedia.com)  
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# The Editor's Page...

Wild horses couldn't drag us away from Tamiya's new 1:24 Mustang GT4

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## MAXIMUM HORSEPOWER



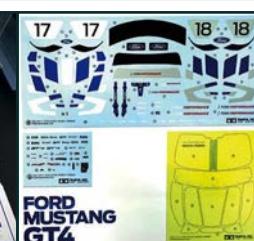
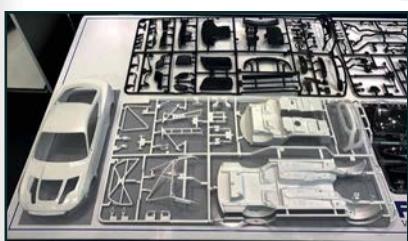
**O**ne Tamiya release that slightly snuck under the radar – until I saw it at the Nuremberg Toy Fair – was the 1:24 Ford Mustang GT4. This is a 100% new-tool model and depicts the race-ready 2019 5.2 litre car; sadly that big V8 isn't included, other than the lower engine areas such as sump and gearbox, but the bodyshell looks superb and the interior features a rollcage. Personally I'm not a big fan of the standard colour schemes of white or grey, so if I build this one myself (which I am considering) I might choose a fictional but funky colour. This kit is great news for automotive modellers and I welcome its arrival! ●

### Availability:

Tamiya models and accessories 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)



**FORD MUSTANG GT4**



## EDITOR'S CHOICE

### Yahu Models 1:48 P-38F Lightning instrument panel

Tamiya's 1:48 P-38F/G Lightning is a pretty complete kit and can be built straight from the box to create a highly authentic model, naturally! If, however, you are a detail addict and just have to maximise the potential of your model (that's me!), then this new instrument panel from Yahu Models will prove irresistible. It features a pre-painted, multi-layered metal panel with dials set in recessed bezels behind a clear layer for the dial glasses and it looks absolutely incredible. A panel for the P-38G is also available. Check them out at: [www.yahumodel.com](http://www.yahumodel.com)





14136 1:12 Kawasaki Ninja H2 Carbon

This Tamiya model depicts a 2018 spec version of the road going Ninja H2 Carbon with superb accuracy. Turn signals, larger silencer, rear license plate, side mirrors, and altered designs for the upper cowl, headlights, windscreens, and more are all faithfully rendered.

Carbon Fibre pattern pieces, metal-plated exhaust, muffler and catalytic converter parts. Detailed Liquid-cooled inline-4 engine and supercharger. Cowls, engine and swing arm attached with minute screws. Plus metal transfers for the Kawasaki river mark emblem.

# New Items for Spring

25196 1:35 U.S. M8 Light Armoured Car "Greyhound" Combat Patrol Set - LIMITED RELEASE

This Limited release pairs the popular M8 "Greyhound" armoured car kit with existing figures and accessories. There is a newly created 10-in-1 ration sheet for creating a ration carton - great for building a mini-diorama straight out of the box. It comes with a tanker figure lugging a large case, and the original commander figure from item 35228. There are plenty of accessories including Jerry cans, buckets and oil drums, plus canvas bags and sacks to add lots of life to your model. You will also find an instruction sheet for ideas on positioning of accessories and figures.



24353 1:24 Mazda MX-5 RF

Tamiya announce a new stablemate for the popular MX-5. Modellers can choose to assemble the kit as Japanese, US, UK or European market spec, and have the option of hard top up or down, thanks to new roof plus rear and side window parts. Metal-plated parts are used to depict light reflectors and other components, while decals are included for instruments and other details. The kit has Recaro seats, BBS wheels and uses metal transfers for emblems and side mirror surfaces. The RF initials stand for Retractable Fastback.



35373 1:35 R35 French Light Tank

Tamiya's French tank model kits have become well known for their unique subject matter and superb historical accuracy. This kit recreates the R35 in 1:35th scale. The 37mm gun offers elevation and 5 degrees of traverse to either side. Assembly type tracks allow fuss-free depiction of upper run 'sag', and feature one-piece straight sections. It comes with a figure perched on the hatch in the turret rear and two marking options. Your colour painting guide is included to help recreate the intricate French camouflage pattern.





# Ninja reaches its ultimate expression

## 1/12 Motorcycle Series Kawasaki Ninja H2 CARBON (Item 14136)

2014 saw the announcement at the Milan Motorcycle Shows (EICMA) of the Kawasaki Ninja H2, a bike whose designers strove to endow with hitherto unexperienced acceleration, and they certainly pulled out all the stops with a powerful combination of a 998cc inline-4 engine and centrifugal supercharger, mounted in an elegant trellis frame and providing an impressive 200hp. The body is a honed work of aerodynamic art, and there are plenty of electronic rider aids also on offer. The special Carbon spec of the Ninja H2 first released in 2017 had carbon fiber upper cowl, an enhanced 205hp engine and many other upgrades that made it a truly hot property.

★This is a 1/12 scale plastic model assembly kit capturing the 2018 spec Ninja H2 Carbon.

★Features a realistic depiction of the inline-4 engine and supercharger. ★H2 road bike spec upper cowl with headlight and mirrors, side cowls and rear cowls really capturing the bike's aerodynamics in style.★Cowls, engine and swingarm are attached to the frame via screws.



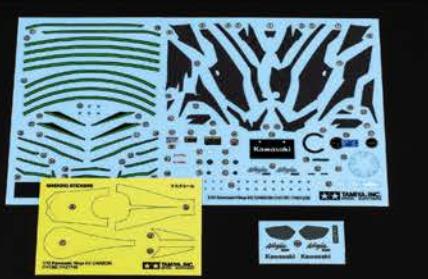
Length: 174mm, width: 76mm, height: 96mm



Decals are included to recreate the upper cowl carbon fiber, while clear parts are used for headlight and position lights.



Metal-plated parts are used to recreate muffler, light cases and more. Tires have authentic tread patterns.



A comprehensive array of decals, metal transfers and masking stickers is on hand to help with your build.



Be it the 1,200cc engine-equipped early 2000s ZX-12R or the astounding H2R, closed course cousin to the H2 and possessor of a 300hp-plus engine making it capable of extreme speeds, the long-running and superbly accurate Tamiya 1/12 Motorcycle Series has plenty of Ninja action (and other bikes, too) for you to get stuck into.

1/12 Kawasaki Ninja ZX-12R (Item 14084)

1/12 Kawasaki Ninja H2R (Item 14131)

**Kawasaki**  
**Ninja**  
H2  
CARBON

