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Model MAGAZINE

INTERNATIONAL

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**BATTLE OF
BRITAIN**
ON A BUDGET
*BUILDING TAMIYA'S
1993 SPITFIRE MK.I*

**TAMIYA'S ALL NEW
1:35 KV-1 STALIN
TANK IN DETAIL**

**RED
7349
RISING**

INSIDE

**Alpha Model 1:24 Lamborghini, MiniArt 1:35 WWI Omnibus,
plus new kits, books and modelling accessories...**

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Chilling on Campus

1/24 Sports Car Series **Campus Friends Set II** (Item 24356)

This is a set of five figures in most modern pose, featuring people taking a "selfie," carrying a backpack, and even leaning on a scooter – they will be a super creation as a set by themselves, and can of course add plenty of life to dioramas. The latest 3D scanning techniques were used to ensure completely natural proportions and pose, right down to depictions of the way the clothing hangs, and numerous accessories have been put in the box to choose from. Also in the set is a 1/24 model of the Yamaha Vino scooter. Some figures even have a choice of head parts and poses, making this a highly versatile addition to your modeling collection.

★Figures are endowed with highly realistic expressions and poses, including the natural folds and creases in their clothes that really bring them to life. ★Separate parts are used to recreate guitar case, smart phone, bags and other accessories. ★A model of the retro-cool Yamaha Vino is also included.

Use the plentiful accessories
anyway you like!



- Figures taking a "selfie" can be depicted with coffee cups.
- Each of these figures has a choice of two head parts.

(Example of use with 1/24 sports car model)

Guitar case is compatible
with male figure.



Image shows 1/24 Mazda MX-5
(Item 24342, sold separately)



The Yamaha Vino is just 70mm long, but with a highly authentic finish. Decals are included for Yamaha logo, instrumentation, license plate and more.

Get your figures right!

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Set G (Item 87126) Set H (Item 87127)



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YAMAHA
LICENSED PRODUCT



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

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10 BATTLE OF BRITAIN ON A BUDGET
Tamiya's affordable 1993 kit of the Spitfire Mk.I makes a great tribute to the Battle of Britain

Model MAGAZINE INTERNATIONAL

Issue 302 December 2020

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IN BRIEF...



TAMIYA

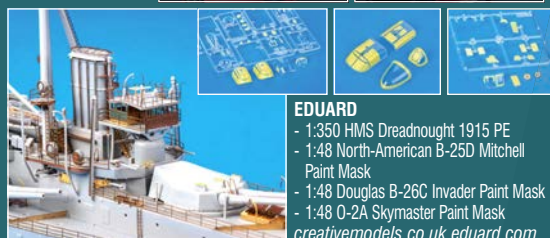
- 1:10 RC 39mm Double Cardan Drive Shafts
- 1:10 RC M Chassis 11 Spoke Wheel Black
- 1:10 RC TT-02B/DF-03 Aluminium Damper Set
- Engraving Blade Holder (Blue)
- 1:32 Mini4WD Super Super Low-Profile Tire & Red Plated 5-Spoke Wheel Set
- 1:32 Mini4WD Acrylic Setting Board
- Engraving Blade Holder (Blue)

hobbyco.net

ALPHA MODEL

- 1:24 Ferrari 488 Pista

hirobay.com



EDUARD

- 1:350 HMS Dreadnought 1915 PE
- 1:48 North-American B-25D Mitchell Paint Mask
- 1:48 Douglas B-26C Invader Paint Mask
- 1:48 O-2A Skymaster Paint Mask

creativemodels.co.uk eduard.com



RESKIT

- 1:32 F-15 open exhaust nozzles for Tamiya
- 1:32 F-104A/C/D/J/G exhaust nozzle for Italeri
- 1:35 MH-60L main rotorhead

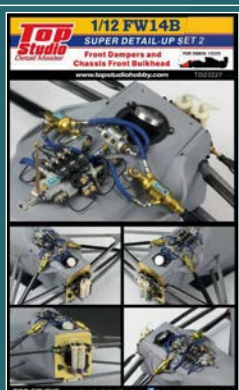
reskit.com.ua



YELLOW HOUSE MODELS

- 1:35 Peugeot mod.1918

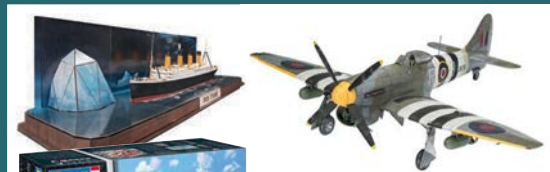
ebay.com



TOP STUDIO

- 1:12 FW14B super-detail set 2

hirobay.com



REVELL

- 1:32 Hawker Tempest Mk.V
- 1:350 RMS Titanic (easy-click) & 3D Puzzle
- 1:12 Mercedes-Benz 300 SLA

revell.de/en



NEW FROM ITALERI

1:35 SEMOVENTE M42 75/18

This kit is 100% new and features a detailed driver's and fighting compartment interiors, plus decals for one Italian and three German machines. www.hobbyco.net

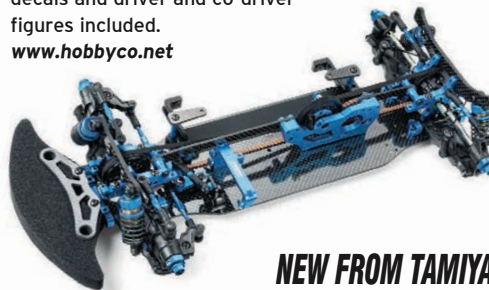


NEW FROM TAMIYA

1:20 Fiat 131 Abarth Rally Olio Fiat

This is the first re-issue for the venerable Tamiya kit in twenty-one years and the first time with this new livery. The model features a detailed replica of the two-litre engine, roll cage-equipped interior, suspension and boot interior. High quality Cartograf decals and driver and co-driver figures included.

www.hobbyco.net



NEW FROM TAMIYA

1:10 RC MSX Chassis Kit (TA07)

This model further refines the driving performance of the TA07 MS, an electric RC 4WD touring-car chassis that uses a highly efficient single-belt drive 4WD.

www.hobbyco.net

NEW FROM TAMIYA

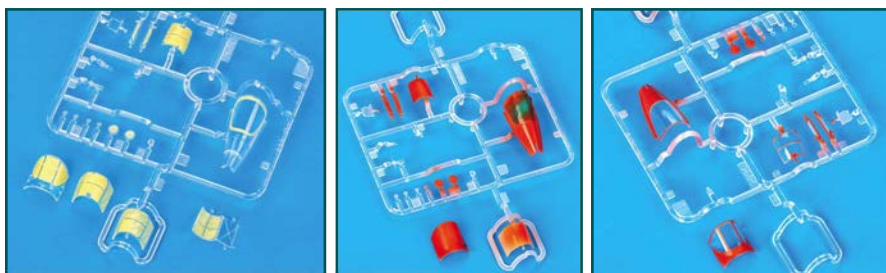
Panel Line Accent Color Orange-Brown

This is the latest hue in the range and will be useful where warmed-toned colour-washes are needed www.hobbyco.net



NEW FROM EDUARD Lockheed P-38H Lightning Paint Mask

This set of highly accurate, pre-cut masks will make the painting process of Tamiya's 1:48 P-38H Lightning much easier. www.creativemodels.co.uk www.eduard.com



NEW FROM MENG

1:12 1966 Ford GT40 Mk.II

This is an all-new kit from Meng and will include a detailed replica of the mighty V8 and its complex exhaust system

www.meng-model.com



NEW FROM MINIART

1:35 Austin Armoured Car 3rd Series

This new 1:35 kit of the Austin armoured car will come with a full interior, including engine and front/rear driving positions

www.creativemodels.co.uk

Tornado GR.4

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- Movable variable geometry wings and wing pylons
- Rubber cover for wing entry point into fuselage
- Color instruction sheet
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NEW FROM NUNU/PLATZ BMW 320i

This new release depicts the BMW 320i E36 series that won the 2001 DTCC
www.hiroboy.com

NEW FROM REVELL

1:48 Panavia Tornado GR.4 'Farewell'

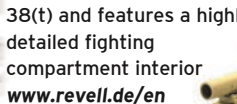
Before its withdrawal from service and to celebrate thirty-five years of continuous service, RAF No.31 Squadron painted its GR.4 in a special livery with a huge gold star on its tail
www.revell.de/en



NEW FROM REVELL

1:72 Sturmpanzer 38(t) Grille Ausf. M

This is a new kit for 2020 of the Sturmpanzer 38(t) and features a highly detailed fighting compartment interior
www.revell.de/en



NEW FROM REVELL

1:48 Junkers Ju188 A-2 'Rächer'

Revell have taken the excellent Dragon Ju188 Rächer (Avenger) and added new decals for this very welcome release. It's a large model so make room in your display case! www.revell.de/en



NEW FROM ZVEZDA 1:48 IL-2 Stormovik

This is a new tooling from Russian makers Zvezda and it looks absolutely superb. Different to Tamiya's release in the same scale, it depicts the single-seat version. Decals for four Russian Air Force Regiments from 1941-1943 included, as well as a pilot figure.
www.hobbyco.net

NEW FROM ZVEZDA

1:72 JU-87 B-2/U4 Stuka with skis

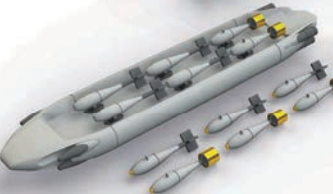
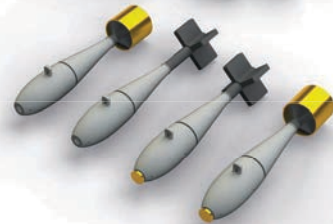
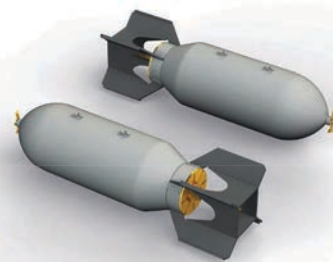
Here we have a partially new tooled kit that recreates the version of Stuka fitted with a 'Umrüstbausätze' modification set for winter warfare. The kit comprises eighty-nine parts, including two pilot figures, plus decals for StG.77.
www.hobbyco.net



COMING SOON FROM EDUARD

- Brassin 1:32 US 1000lb Bombs
- Brassin 1:32 A-26 Invader wheels
- Brassin 1:32 Douglas A-26B Invader LööK Set
- Brassin 1:48 SUU-20 dispenser w/ BDU-33 & Mk.76 bombs
- Brassin 1:48 US Torpedo Mk.13
- Brassin 1:48 Mi-24VP GSh-23 cannon

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www.eduard.com



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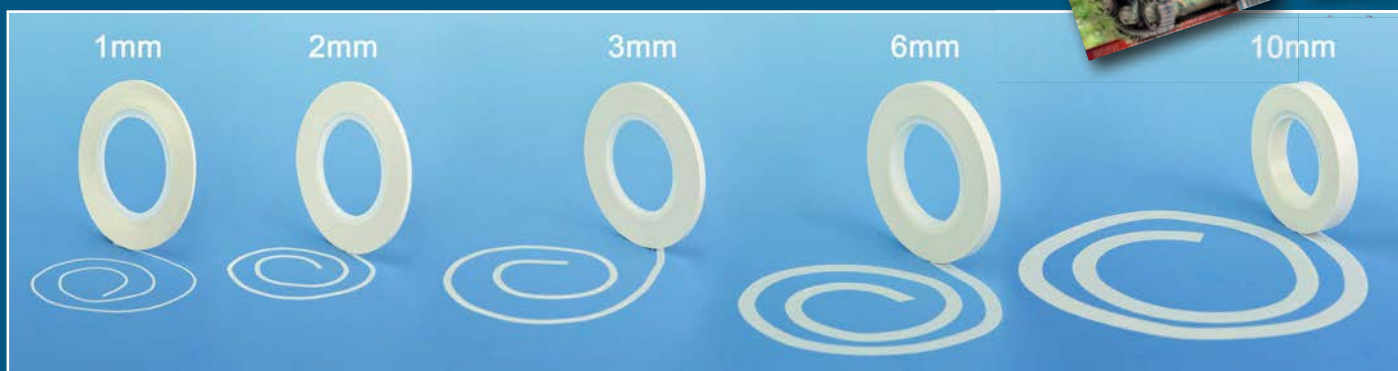
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KIT PREVIEW

TAMIYA 1:12 PORSCHE 935 MARTINI 1976 ● KIT NO.12057



One of the most iconic photographs of a Tamiya kit: the translucent plastic used to simulate the fibre-glass fuel tank of the '935



TECHSPEC...

TAMIYA 1:12 PORSCHE 935 MARTINI
1976 KIT NO.12057

Materials:

Injection-moulded polystyrene, synthetic rubber semi-pneumatic tyres and cooling ducts, copper ignition cables, polycaps, photo-etched metal, mini-screws, plated parts, clear red and orange rear lights, waterslide decals

Availability:

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

ANY TIME, ANY PLACE, ANYWHERE

Big Scale Series No.57 returns, with photo-etched parts and decals by Cartograf

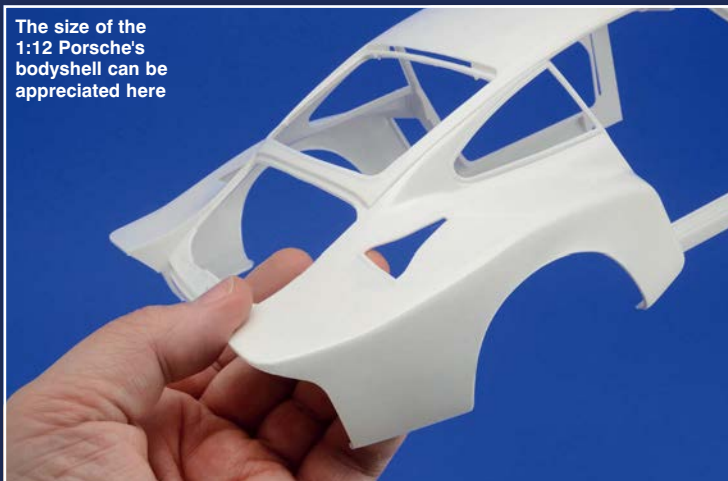
The Porsche 935 Turbo was based on the Porsche 930 Turbo, a commercial road-car launched in 1974. The engine – famously mounted on the rear – was an air-cooled, horizontally opposed six-cylinder unit that was downsized from a displacement of 2,992cc in the road car vehicle to 2,857cc. By

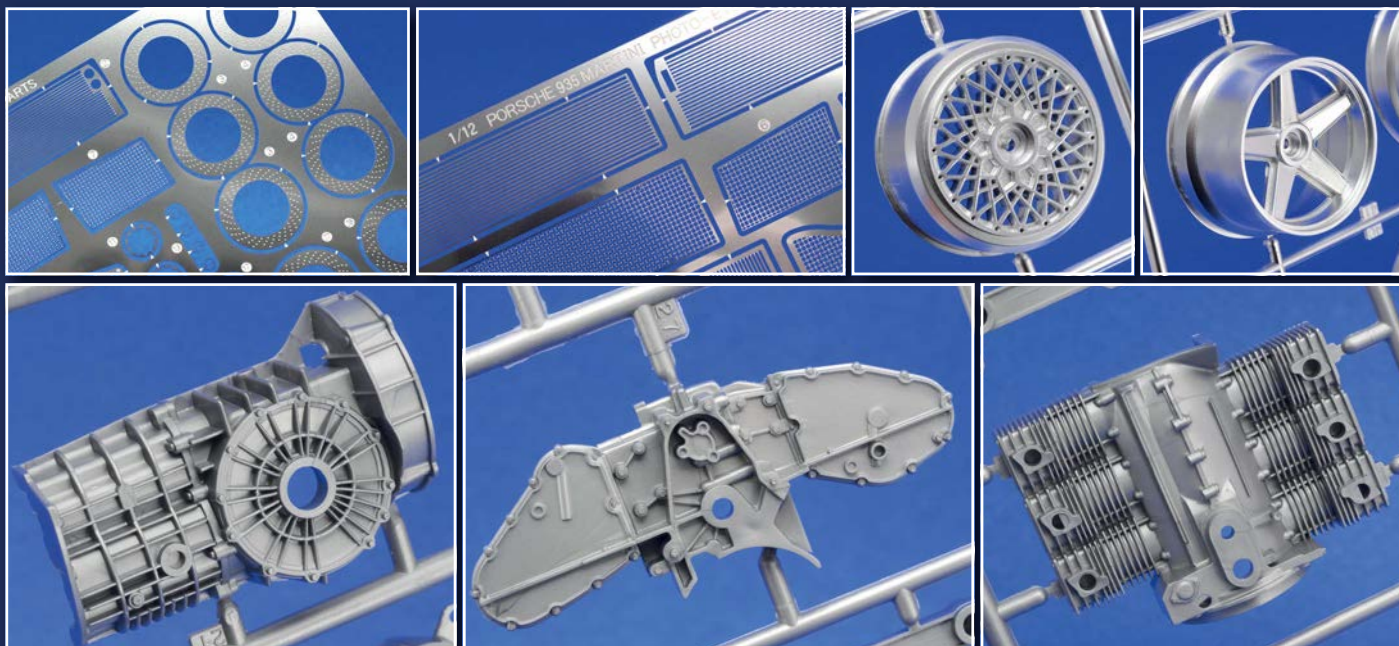
increasing the boost pressure of the turbocharger, the 935 could generate 590bhp. Although it made his debut win in the opening round of the Mugello six-hour race in March 1976 and won the second round at Barrelunga, the air-cooled intercooler was found to be in violation of the rules and was forced to be converted to a water-cooled type.

IN 1:12 MODEL-FORM

Tamiya's 1:12 Porsche 935 Martini was originally released back in 1977 and it instantly became an object of desire for model car fanatics across the globe. The kit included a full engine with detailed engine bay and, perhaps even more exciting than the engine, a full depiction of the fibre-glass fuel tank up

The size of the 1:12 Porsche's bodyshell can be appreciated here



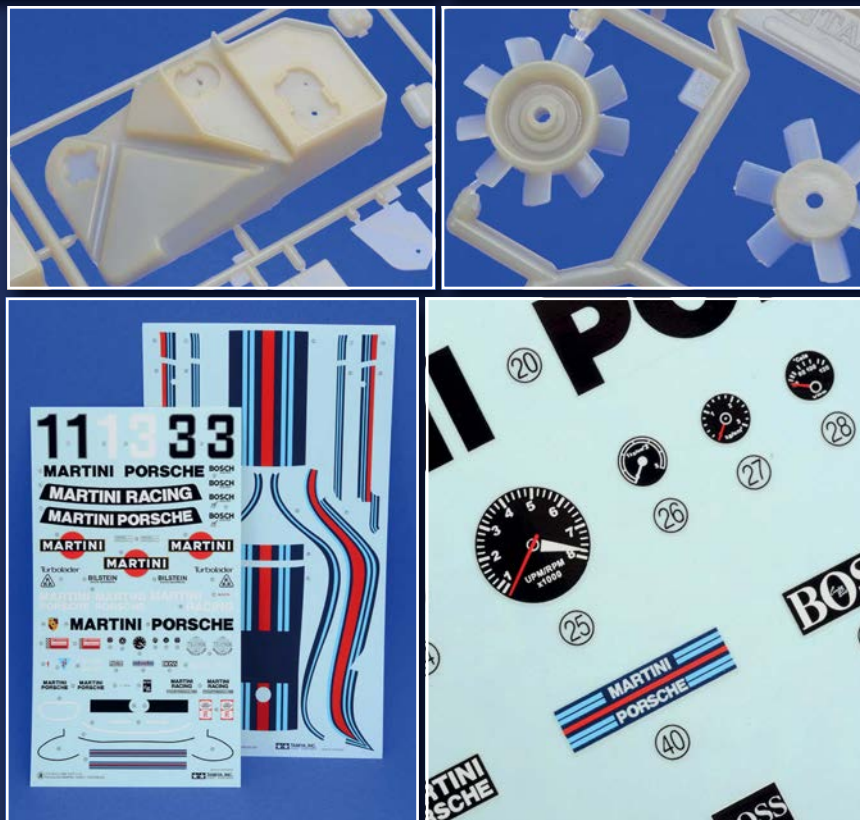


front, moulded in translucent, off-white plastic that looked supremely realistic and unusual.

The detail included in this huge kit was breathtaking and in 2009, Tamiya upped their game again with the inclusion of photo-etched parts for the brake-disc faces, intake and radiator grilles, seat harness buckles, body catches and more. This 2020 is a re-issue of that magnificent package, giving modellers a second chance to add this stunning Tamiya classic to their collection. ●

KIT FEATURES

- Doors can be opened and closed
- Interior is equipped with a roll cage
- Simulated fabric seat belts and photo-etched metal buckles are included
- Removable front bonnet like the real car
- Fuel tank, oil tank, battery, washer tank are depicted
- Photo-etched parts are provided for the front spoiler mesh, front and rear brake discs and side radiators
- Precisely detailed engine is equipped with a water-cooled intercooler
- Workable steering linked by rack and pinion mechanism
- Front and rear suspensions operate on coil springs
- Decals by Cartograf



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FULL-BUILD: WORLD WAR TWO ALLIED AVIATION
TAMIYA 1:48 SUPERMARINE SPITFIRE MK.I (1993) ● KIT NO.61032





BATTLE OF BRITAIN ON A BUDGET

Marek Nováček builds
Tamiya's affordable 1993
kit of the Spitfire Mk.I in his
tribute to the Battle of Britain

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 SUPERMARINE SPITFIRE MK.I (1993) ● KIT NO.61032



Lead wire was used to up-detail to the cockpit



The interior was sprayed with Mr Color C364 (Aircraft Grey Green) and C8 (Silver)

It is eighty years since the beginning of the massive confrontation between the RAF and the Luftwaffe, named the 'Battle of Britain' by Winston Churchill. How should the plastic modeller celebrate this milestone in a human history? I think building Supermarine Spitfire, or rather a 1:48 model of one, is the right thing to do. Due to lack of time, I decided to go for an older (and now, very affordable) kit: there are just two beautiful sprues in the box, what more do you need at this hectic time?

As always, I start by choosing the markings. In the magazine 'Polish Wings' (No.06) I found very interesting photo of Spitfire Mk.I from No.152 Squadron RAF. Following this pattern, I drew and cut masks to spray the markings. I added lead wire cabling to the cockpit, which I then painted with Mr Hobby paints, finishing the details with a brush using AMMO and Vallejo acrylics. For this particular project I used dial decals from MDC on the instrument panel. The scratches were drawn with Prismacolor pencils and AMMO oil paints and further weathering was achieved with a Tamiya weathering set.

I decided to improve riveting detail on the exterior surfaces of the Spitfire to get a better result from the painting stages. For this task I used Tamiya's scribe and Petr Dousek's Rosie the Riveter tool. Then I glued the model together. I used putty only on the

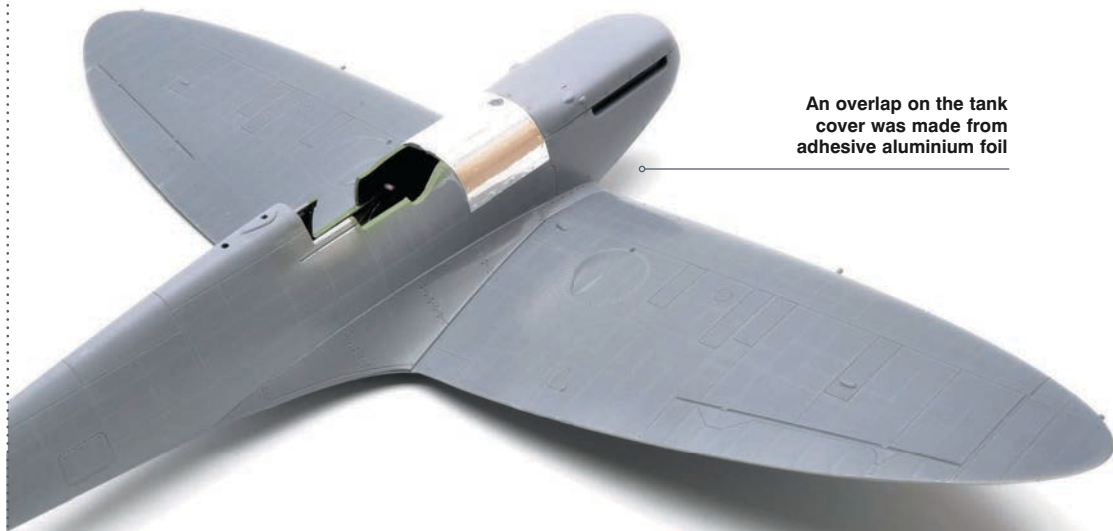


Holes were drilled out in the bulkhead and the author used dial decals from MDC on the instrument panel

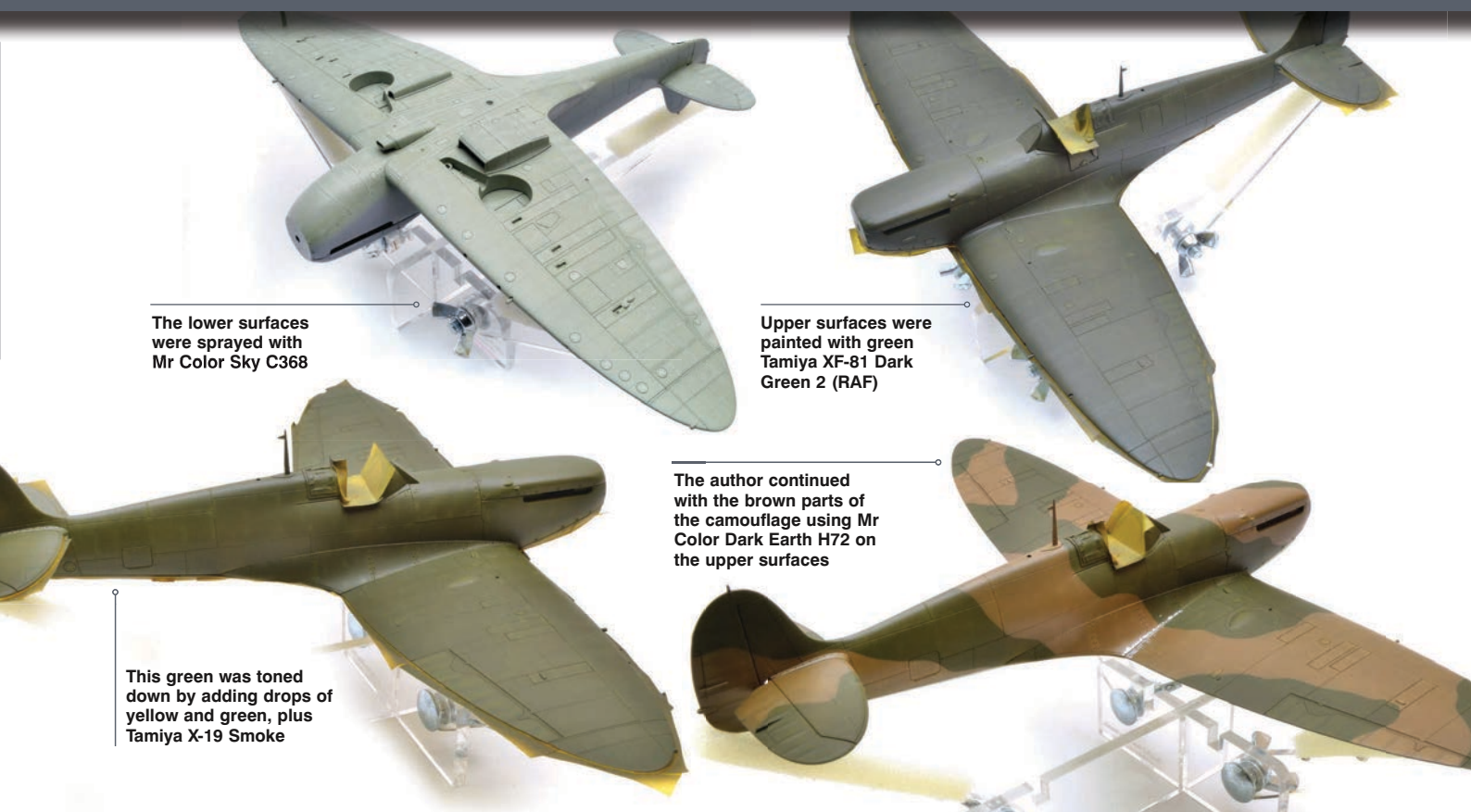


The Spitfire rivet template from Atol Hobby was employed to capture the exact pattern of rivets above in the airframe

The details were hand-painted using AMMO and Vallejo acrylics, with scratches created with Prismacolor pencils



An overlap on the tank cover was made from adhesive aluminium foil



The lower surfaces were sprayed with Mr Color Sky C368

Upper surfaces were painted with green Tamiya XF-81 Dark Green 2 (RAF)

The author continued with the brown parts of the camouflage using Mr Color Dark Earth H72 on the upper surfaces

This green was toned down by adding drops of yellow and green, plus Tamiya X-19 Smoke

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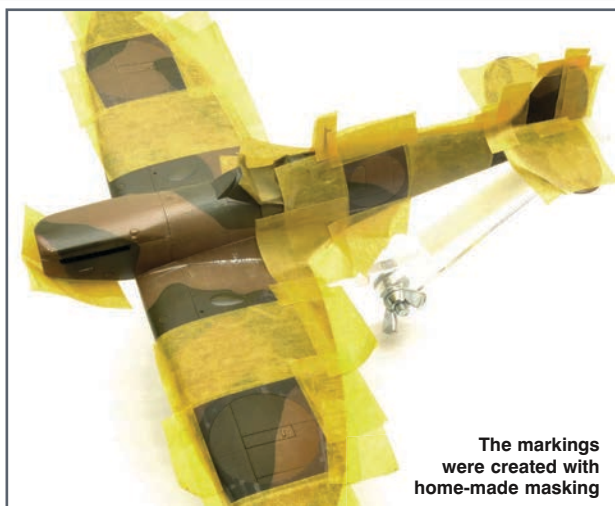
Item 7386
Master Cut



Item 7399
Nail Nailer
for iron
and brass nails

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 SUPERMARINE SPITFIRE MK.I (1993) ● KIT NO.61032



The markings were created with home-made masking



Even the serial numbers and gas indicator patch were created with masks

underside side along the joint of the fuselage and wings. I created the overlap on the tank cover from adhesive aluminium foil. Except this, everything fits perfectly - a typical Tamiya kit in a good way. After sanding, I had to re-instate the lost engraving and rivets on the exterior.

To prime the model, I used Mr. Surfacer applied with an airbrush. The priming unifies different materials and is helpful in revealing surface imperfections, followed by a spray of silver colour on the wing/fuselage joint. I sprayed AMMO scratches over the top of this silver colour, then I proceeded with the painting. 'Sky' colour from Mr Hobby was used on the lower surfaces and then I used browns from Mr Hobby and greens from Tamiya on the upper surfaces. Using water and a metal toothpick, I created scratches, referring to photos for accuracy.

For spraying national insignia, code letters and serial numbers, I used the aforementioned masks. I sprayed the wing walkways using PE templates from Atol Hobby. Weathering was created with a combination of airbrushed Tamiya paints, oil paints and 'Grime' Shader from AMMO. Some minor scratches were formed with Prismacolor pencils. The antenna was made from Uschi van der Rosten's 'Rig that thing' elastic rigging. I'm very satisfied with the result. It is quite clear that you can build a decent piece of plastic model even out of this twenty-seven year old kit. I'm lucky to have many more great Tamiya kits in my possession! ●



Wing walkways were sprayed using a photo-etched metal template from Atol Hobby



The basis of the weathering process was sprayed with Tamiya paints



FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 SUPERMARINE SPITFIRE MK.I (1993) ● KIT NO.61032



TECHSPEC...

TAMIYA 1:48 SUPERMARINE SPITFIRE
MK.I (1993) KIT NO.61032

Materials:

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

Paints used:

- Tamiya Acrylics: XF-81 Dark Green 2 (RAF),
- AMMO and Vallejo acrylics: various
- Mr Color: Aircraft Grey Green BS283,
Silver C8, Sky BS381 C368, Dark Earth H72

Accessories used:

- Lead wire, wing walkway PE templates

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
- Atol Hobby: www.atolhobby.com
- Uschi van der Rosten: www.uschivdr.com
- Rosie the Riveter tool: www.hmhobbies.co.uk



eduard

LIMITED EDITION

1/48 > 1/72

Adlertag

Bf 110C/D in the Battle
of Britain



LIMITED EDITION #11145 (1/48), #2132 (1/72)

NOVEMBER 2020
WWW.EDUARD.COM

KIT PREVIEW

TAMIYA 1:35 PANZERKAMPFWAGEN IV AUSF.F SD.KFZ161 ● KIT NO.35374



PANZERKAMPFWAGEN IV AUSF.F

Tamiya have used selected parts from an earlier Pz.IV kit and added an entire new superstructure, turret and three superb figures to create the Ausf.F variant

Based only on the lower hull and suspension of existing Tamiya Pz.IV kits, the rest of this Ausf.F variant is newly tooled and will come with three excellent figures. The Pz.Kpfw.IV Ausf. F had reinforced armour and updated hull designs, as well as a short-barrelled, KwK37 7.5 cm tank gun. 471 examples of this variant rolled off the production lines at Krupp-Gruson, Vomag and Nibelungenwerke, serving on the Eastern front as Germany battled with the Red Army in the Soviet Union and in the Western Allies in North Africa. In-depth research at the German Tank Museum in Munster, Germany contributed to this highly accurate kit, which

features brand new parts, with only the lower hull and wheels being existing mouldings. It's very hard to distinguish the difference between these 1990s parts from the new additions, such was the high quality of the mouldings back then. This kit is easy to build whilst being highly detailed and accurate, the perfect combination, surely? Full-build article coming soon to Tamiya Model Magazine! ●

TECHSPEC...

TAMIYA 1:35 PANZERKAMPFWAGEN IV AUSF.F SD.KFZ161 KIT NO.35374

Materials:

Injection-moulded polystyrene, polycaps, copper wire, nylon cord, waterslide decals

Availability:

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

KIT FEATURES

- Overall length: 168mm
- Overall width: 82mm
- Engine deck hatch can be built with or without louvre for tropical theatres of operation
- Link-and-length assembly-type tracks in kit plastic
- Three new crew figures for the turret hatches
- Two markings-options: Eastern Front or North Africa



www.creativemodels.co.uk

Model by Wayne Hui

Model by Jeremy Moore

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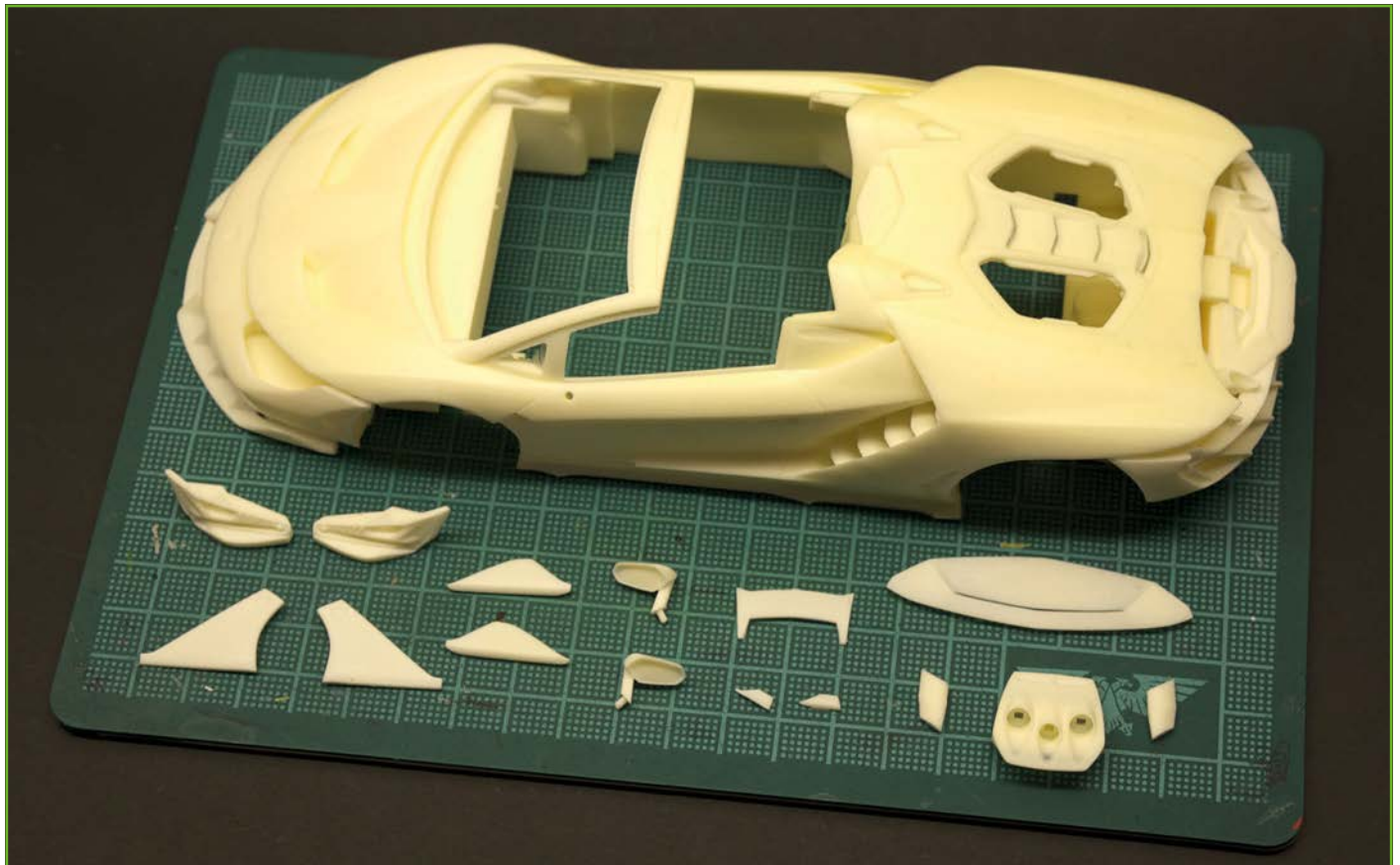
Lambo in Lime

Robert Riley goes green with the Alpha Models 1:24 Lamborghini Centenario Roadster 770

Alpha Model are fast becoming the go-to maker for high-end sports car modelling these days in the multi-media market. They offer an expanding catalogue of sports cars, each superbly cast using conventional and 3D print methods. Most kits also feature large amounts of photo-etched and CNC-turned metal parts to up the detail levels. One of their latest releases is the super-exotic and very limited Lamborghini Centenario Roadster LP770. In the real world, production ran from 2016-2017 with only twenty Coupes and twenty roadsters ever to see the light of day, costing the owner around a cool \$3.7 million. Shall I have four? No, I think I'll just take the 1:24 replica thank you. Let's dive into that blue box and get started... ▶







After a quick tidy-up, all body parts were dry-fitted and accounted for. Superb casting and sharp design definitely shouts out here

WHAT'S IN THE BOX?

The contents are safely packaged holding various engine components, internal details, brake system parts, a sheet of decals, metal suspension components, an array of photo-etched parts and several instructional sheets to guide us on our way. It's clear that Alpha Model have pulled out all the stops with this one, so I was very much looking forward to the challenge. A dry fit of each area shows very promising results, with

most parts fitting effectively and as they should. Some clean-up – with a bit of jostling about – is required to get the parts to marry comfortably but then that's to be expected when working with this type of medium. Once I had prepped all parts, they received a good bath in warm soapy water to wash away any dust particles and oils remaining on the surfaces. Zero Paints light grey primer was airbrushed over all castings then left to harden overnight.



This is one hell of an aggressive rear diffuser, there's no escaping its presence. Amazingly (apart from two pieces), Alpha Model have cast this large area in one part

Mini Review...

TAMIYA MASKING TAPE
1MM, 2MM, 3MM
www.hobbyco.net

Ultra narrow masking tape is incredibly useful for many painting tasks. Cutting perfectly even and consistent 1mm strips from wider tape is surprisingly difficult, so having no less than eighteen meters of the stuff to hand is invaluable. Sure, narrow-width masking tape has been available for years, but Tamiya have added discs of protective clear plastic either side of the roll of tape, keep the edges clean and crisp, a genius move. 1mm (82706) 2mm (82707) 3mm (82708).





Body prep using a 2000-grit Abralon disc pad. These are superb sanding tools to use as they are soft which enables the user to follow panel contours safely whilst minimising the risk of pressure marks



Body prepping process: sanding, filler, sanding, primer, sanding, primer, sanding and so on...

The next stages were crucial as the primer finish will reflect on the paint finish later. So it's always worth spending that extra time on primer, sanding, more primer, more sanding: it doesn't matter how many layers we do, so long as we obtain the best outcome. The final layers of primer were in white to give the base colour a good head start. Talking of colours, it's a Lamborghini, so it's gotta be bold and eye-catching. My choice for this purpose was Zero Paints colour-matched 'Verde Mantis', a bright green with pearl pigment to help catch the light. It's a gorgeous colour that suits the shape of the car perfectly. Several layers

were applied, then left to cure for the next stages.

COLOUR ON...

Masking was the next stop and lots of it too: front window frame with scuttle panel, front bonnet vents, rear engine panel and air scoops, internal rear rests, door runners and finally around those huge lower vents on each side. My colour of choice for this was a black I'd used previously on a Ducati 1199 Nero, a specially-mixed Zero Paint colour with a pearl fleck, as I felt this would compliment the green nicely. This was applied to all other areas where black was called out. Once complete, the nervous de-masking moment

came around (I'm always apprehensive at this point). Thankfully – and much to my relief – there was

no colour bleed, leaving a perfect contrast of black and bright green. ▶



The gorgeous Lamborghini Huracan Verde Mantis from Zero Paints, colour-matched from the Lamborghini range



Once the paint was mixed thoroughly it was poured into the paint cup. With its fine pearl pigment, this colour looks amazing under bright light



After base colour work was complete, all areas were masked over leaving the exposed sections to be airbrushed in black. Time consuming, but well worth it

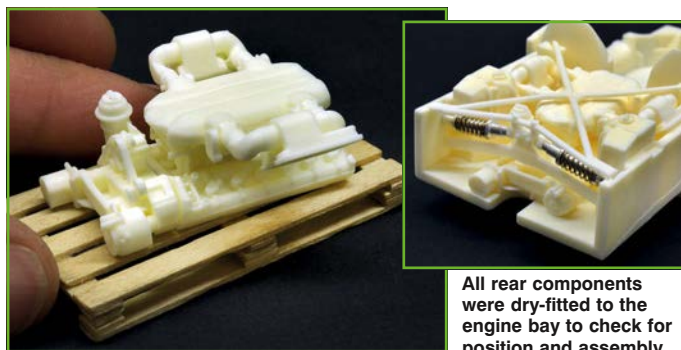


De-masked and complete. The black helps to break up the green nicely giving a more defined shape to the colour work. All that's left here is to clear coat in gloss 2k

MECHANICALLY INTERNAL

A dry fit of the engine and internal components was next and to help the finer details stand out, combination of metallic colours and various black finishes were employed. The turned metal components included in the kit are for the rear inner shock absorbers and they compliment the area nicely. For some reason Alpha model had designed two coolant bottles for the rear. This is actually wrong as the car (which is built and

based on the Aventador SV chassis) only has one and it's on the left. The other side should be a fuse box, so this was cut out and a new part scratchbuilt to represent this component. Aftermarket details added include various sized and styled rivets, self-templated carbon pattern and bare-metal heat shield foil from MFH scattered around the engine bay. The whole area was painted using Tamiya's LP range and Zero metallic finishes.

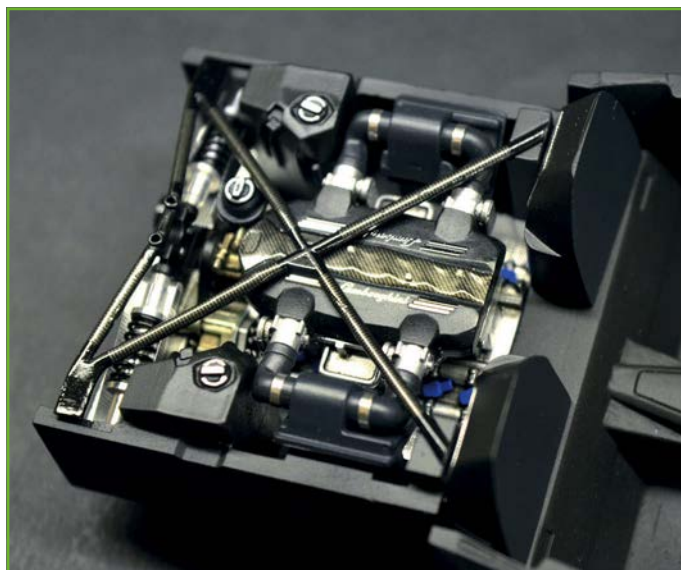


The resin formed 1:24 I version of Lamborghini's huge 6.5-litre V12 engine is captured really nicely by the Alpha team. Made up of several parts of course, to help colour work

All rear components were dry-fitted to the engine bay to check for position and assembly issues. Here we can see the box included CNC-turned metal inner shock absorber parts



V12 engine ready. Extra parts used to the enhance the area were various rivets, some carbon work and Bare Metal Foil to represent the metal hose clamps around the air induction pipes

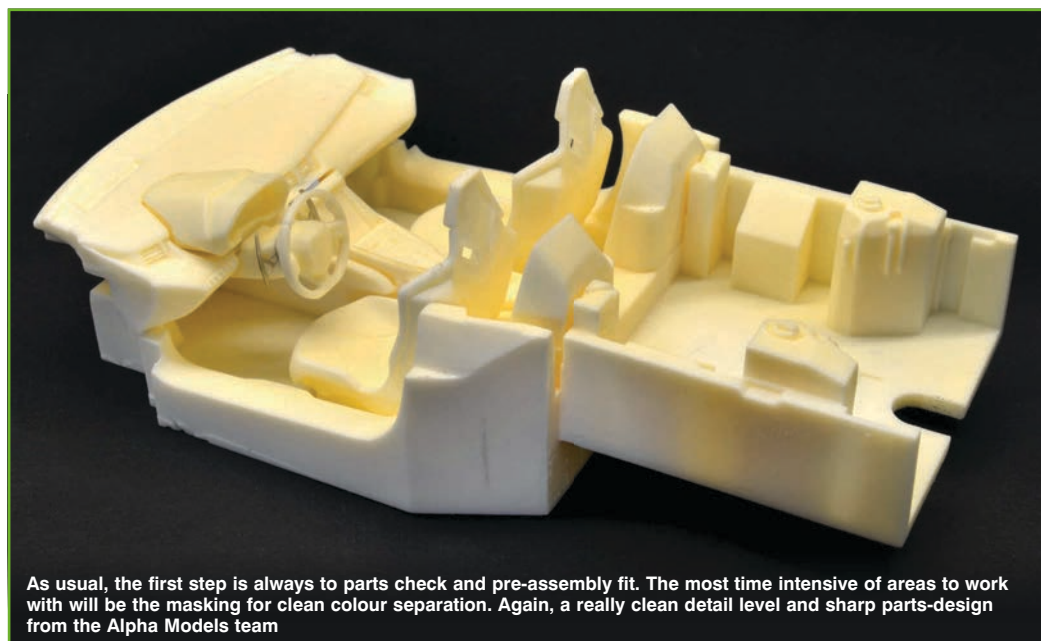


Engine compartment almost complete with many added extras to enhance the final look. Here we can see the area dry-fitted prior to final installation

COMPOSITE INTERIOR?

To carbon, or not to carbon? There's no escaping the visual aspect of the roadster's cabin as the car has no roof. So I felt this is one area I'd really work on. My colours of choice for the leather were Zero's Rubber Black and the gorgeous Ferrari Bordeaux red leather colour. The seat edges and various other leather components would be picked out with yellow piping which are decals included with the Alpha Models kit. Scale Motorsport's Twill Weave carbon-fibre-effect decal was applied to both door cards and various centre console displays to finish up. This was all clear-coated in Zero's Semi-Gloss Clear to neutralise the sheen and seal all the work up.

All carbon-fibre areas on the chassis were masked off, leaving the exposed portions to be airbrushed in the Bordeaux Red. This was

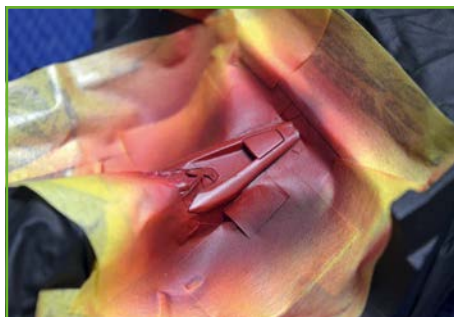


As usual, the first step is always to parts check and pre-assembly fit. The most time intensive of areas to work with will be the masking for clean colour separation. Again, a really clean detail level and sharp parts-design from the Alpha Models team

masked off along with all adjoining parts, leaving the exposed areas to be covered with fine flocking material from the Scale Production

team. The interior and engine component-work came out really well and I couldn't have been happier, so it was now time to marry

it with the body. The red/black leather interior worked nicely along side the Verde Mantis body colour, a match made in Italy!



One of the main colours of choice for the interior was a Zero Paints Bordeaux Ferrari red leather mix. A nice deep shade with a satin finish



After all the previous colour and carbon work was complete, it was time to mask everything over again and add the carpet. Scale Production's Anthracite Flocking Powder was perfect for the job and gave convincing results



Cabin work progress. The black, red leather and carbon covered panels contrast nicely with yellow accents and centre console detail



Dashboard, door cards, leg rests and centre console display section are now all complete and ready for final fitment. The centre console display unit was a whole section by itself where the author hand-painted all the detail



Seating arrangement: black gloss backed seats with Bordeaux red leather trim and yellow edged piping to finish up. The piping were decals included with the kit



All components from engine to cabin were now fitted into their respective positions. The door cards would be glued in place after the body shell was married to the chassis

WHEELS, BRAKES AND ANYTHING ELSE

I wanted the wheels to stand out and work well with the bodywork, so I opted for silver centre spokes, an anthracite main hub and gloss silver outer edge. Peering in through

the wheels is usually a dark place so felt I some bright red brake callipers would do the trick to help an otherwise bland area stand out. I say 'bland' area, but in reality, each wheel hub on all four corners holds a huge carbon ceramic brake

disc so hardly bland.. These were detailed using the photo-etched parts included in the box and painted in Zero's carbon ceramic grey colour for added realism. Once the brake set-up was complete, the whole system, plus wheels, were fitted to all

corners. To finish up, final details including radiator faces, window frames, the windows themselves, wipers, plus marrying the front and rear bumpers to the main body, wheels, mirrors and logos were applied and all was finished! ▶



Wheel and brake system components. Apart from the tyres the wheels are made up of three sections: outer rim, fan insert and centre hub nut



The author opted for an anthracite colour main bodied rim, an outer silver edge with the centre fans being aluminium



Carbon ceramic brake discs were represented using Zero Paints Carbon Ceramic Grey paint and detail painted. The small middle part is the wheel centre hub in red and black

FULL-BUILD: MODEL SUPERCAR

ALPHA MODEL 1:24 LAMBORGHINI CENTENARIO ROADSTER 770 ● KIT NO.AM02-0012



The whole section is now complete and ready for the final fit. The supplied synthetic rubber tyres are moulded beautifully, adding that final touch to a really fun area to work on



These wheels are great, a superb design from Alpha Model. The real car has these in carbon too so maybe, a good challenge for those of you out there to add your own twist

FINAL THOUGHTS

This is my second Alpha Models build and one that was thoroughly enjoyable! It's a comprehensive kit with all major areas covered, from engine to interior, using a range of media. The curves and angles are captured beautifully by the Alpha team. Also available is the Coupe version of the this car and is definitely worth a look too. For me, the only negative aspect are the windows and was the same for the previous 1:18 version. Although they are nicely pre-printed, they are pretty thick and were frustrating at times to work with. My advice and what I found worked best, was to really heat them up and manipulate to shape. Overall I'd definitely build another Alpha Model as they are a great challenge and cover some interesting subjects. ●

TECHSPEC...

ALPHA MODEL 1:24 LAMBORGHINI
CENTENARIO ROADSTER 770
KIT NO.AM02-0012

Materials:

Resin, CNC-milled metal components, screws, photo-etch, clear window sheets, rubber tyres, waterslide decals

Paints used:

- Airbrushed using the full Zero Paints system: Light Grey Primer, White Primer, Lamborghini Verde Mantis (LOL6), Rubber Black, Bordeaux Ferrari Leather Colour (ZP-1007), Carbon Ceramic Grey, Pre-thinned Satin/Semi-Gloss Clear, 2-Pack Clearcoat Diamond Finish plus various zero metallic finishes
- Tamiya Lacquer Paints; LP-1 Black, LP-5 Semi-Gloss Black, LP-7 Pure Red, LP-9 Gloss Clear, LP-19 Gun-Metal, LP-23 Flat Clear, LP-24 Semi-Gloss Clear, LP-54 Dark Iron, LP-70 Gloss Aluminium

Accessories used:

- Decalcar tyre valves (DCL-PAR016)
- Hobby Design seat belt harnesses
- MFH BMF Heat shield (P-928)
- MSM Porsche/Lamborghini/Ferrari logo stickers
- Scale Production Anthracite flocking powder

Availability:

- Alpha Model, Decalcar, Hobby Design, MFH : www.hiroboy.com
- Scale Production : www.scaleproduction.de
- Scale Motorsport : www.scalemotorsport.com





FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 RUSSIAN HEAVY TANK KV-1 MODEL 1941 EARLY PRODUCTION ● KIT NO.35372

On June 22nd 1941, on the eastern frontiers of the Teutonic Empire, the conquest of 'living space' for the Germanic people began: the operation was codenamed 'Barbarossa'. However, for the Soviet people it was the beginning of the 'Great Patriotic War'. After the successes of the Blitzkrieg in Poland and Western Europe, the German tankers were to experience an unpleasant surprise in

the territory of the Great Bear. The first was, of course, the T-34 medium tank, while the second was the KV-1 heavy tank (KV: Kliment Voroshilov, the tank's designer). The vehicle was built in 1939 and was produced at the Leningrad Kirov Plant, as well as at the Chelyabinsk Tractor Plant.

The construction itself, as in the case of the T-34, was kept strictly secret, which later surprised the German

tankers. Despite the fact that it was not made in the same numbers as its smaller companion (it is estimated that about 4,786 tanks were built), it still entered the pages of history as a truly successful vehicle and in many aspects superior to the German tanks from the beginning of the war. So I will move on to the miniature of our hero, in the most pleasant scale for me: 1:35, launched this year by Tamiya. ●

Rafał Buber Kubić
builds Tamiya's all-new
1:35 KV-1 Model 1941
Early Production 'Stalin'
tank straight from the box,
plus a pair of tow cables!

RED
TSAR
RISING





FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 RUSSIAN HEAVY TANK KV-1 MODEL 1941 EARLY PRODUCTION ● KIT NO.35372



Sidecutters are the safest and easiest way to remove kit parts from the moulding sprues. The flat side should be pressed up against the part, making a clean cut and only a quick clean-up with a file or foam-backed sanding stick will be then needed

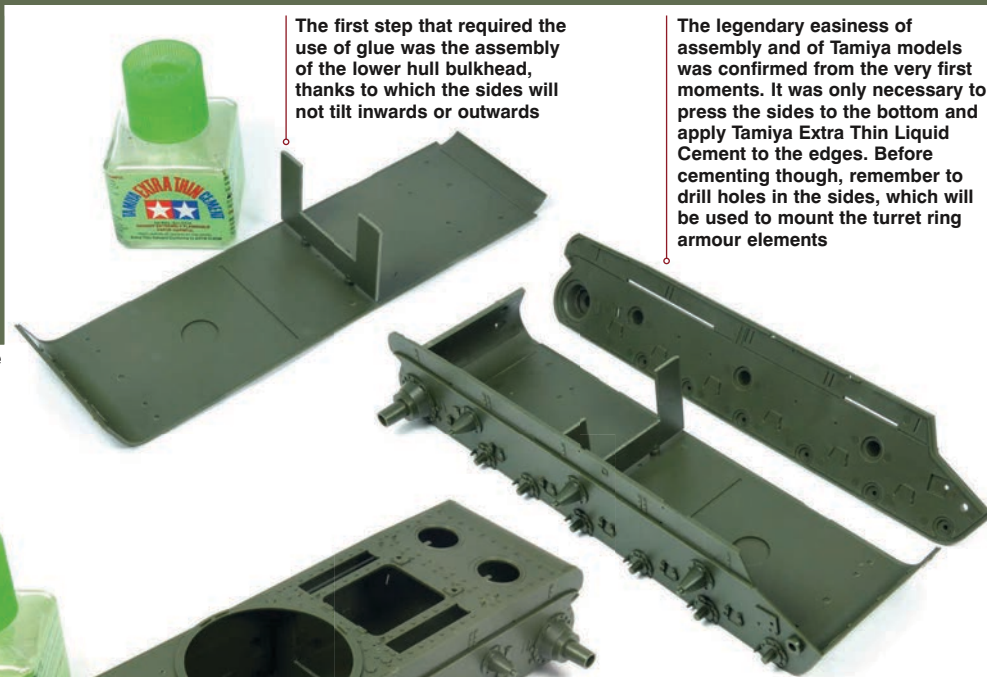
100% NEW MOULDS

I will not mention models from other manufacturers, because KV models of all versions were issued in a great number, the leader here being Trumpeter. So there will be no problem with making a specific version. The Tamiya model is completely new and has nothing to do with the old releases from this manufacturer. I built the model without any upgrades, so that everyone can have an honest view of what can be achieved, straight from the box. The only exception were tow cables from Eureka XXL.

Assembly was a pure formality and a pleasurable one too. The hull was closed up with the front armour plates and during the whole process of assembling the hull, it was not necessary to use any putty.

From the exterior, we are instructed to grind off the sockets of the towing cables brackets. Such solutions suggest that Tamiya may have some other version of the KV-1 planned. After a rapid assembly of the hull, the time came to build up the turret. As in the case of the hull, this one was also split into separate plates. The rest of the work with this section is a pure pleasure and another confirmation of the old modellers' saying: "Tamiya builds like LEGO blocks".

The gun elevating mechanism, due to the fact that it is a completely invisible element, was neglected and I did not care about its clean-up. The whole thing ended up inside the turret anyway. The barrel, on the other hand, is moulded in one piece. I scraped off the mould seam



The first step that required the use of glue was the assembly of the lower hull bulkhead, thanks to which the sides will not tilt inwards or outwards

The legendary easiness of assembly and of Tamiya models was confirmed from the very first moments. It was only necessary to press the sides to the bottom and apply Tamiya Extra Thin Liquid Cement to the edges. Before cementing though, remember to drill holes in the sides, which will be used to mount the turret ring armour elements



The next step is to prepare the hull roof. Here, too, we must remember to drill holes, just visible here. Where and how many are perfectly illustrated in the instructions



According to the instructions, it was now necessary to install the suspension arms and their bump-stops. However, they had to be processed with the help of abrasive blocks purchased in one of the well-known drugstore stores



By this stage, hull assembly was finished, so work was started on the wheels. First, the author removed everything from the sprues, cleaned them up and then glued them together. Of course, everything is thought out and fits perfectly. "Perfection" is the correct terminology: a simple "very good" would be an insult to the creators of this miniature



And this is how it looks assembled. The wheels are temporarily fitted with BluTack



Then, it was time for the tracks. They are recreated in the form of strips and individual links for the idlers and sprockets. Importantly, the characteristic sag is very clearly depicted in the upper sections. The main work here was to remove the ejector-pin marks, which were fortunately very shallow. For this, a rounded scalpel blade was used to simply scrape off the unsightly-looking marks

with a scalpel, then sanded the whole thing with the above-mentioned abrasive blocks and polished with a polisher for nails, of course. It's great that the fenders are separate elements and as you can see from the photos, this greatly facilitates the fitting of the tracks. The fenders themselves have a total of six brackets per side. To this we attach two stowage boxes for tools and equipment, plus a saw.

This is where we finish the assembly of this miniature. The model is easy to assemble with

very good, sorry – perfect fitting – parts and I didn't notice any problems, even a tiny one. During the construction, I did not use a gramme of putty. In two or three evenings, it can be easily assembled straight from the box, ready for painting. Of course, for a beginner, I would suggest following the assembly instructions carefully and focus on individual sequences. As for me, it is a great base for upgrading and superdetailing, which will certainly tempt advanced modellers.

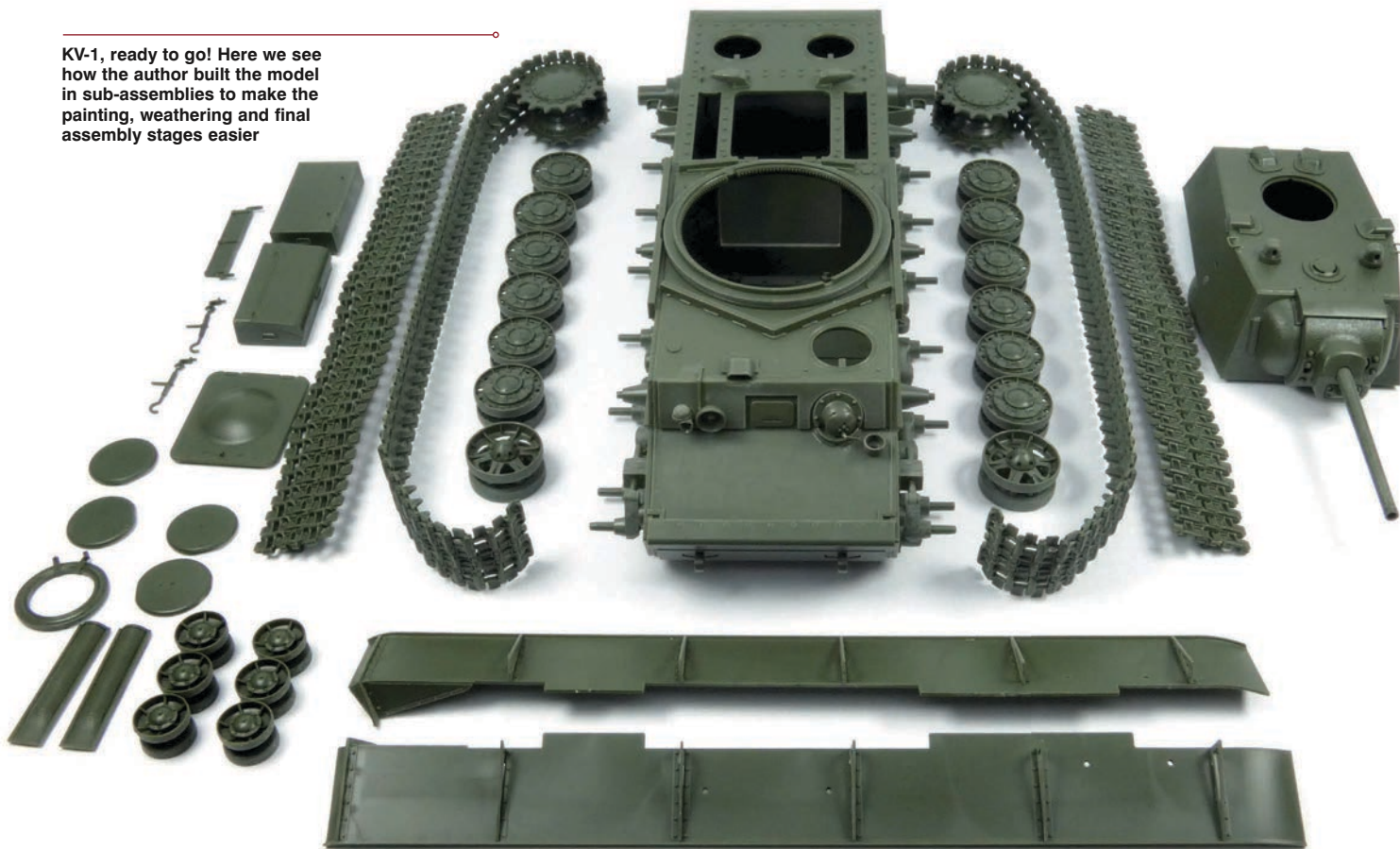
PAINTING THE KV-1

I wondered for a long time how to finish the assembled KV-1. The initial option was to paint it all green with strong modulation, but after looking through dozens of photos, I chose the tricolour camouflage. To be precise, the presence of such a paint scheme is not confirmed on the ZiS-5 cannon machine that Tamiya offers here. Certainly the tricolour camouflage was worn by the vehicle of the 220th Armoured Brigade in Leningrad in the spring of 1942, but it was a KV-1

armed with an F-32 gun. Nevertheless, I decided to colour my model this way.

I practically always start with a black background and here I reached for AMMO by Mig's One Shot Black Primer. This undercoat was applied to all elements, including the tracks. It is worth leaving the paint to dry properly for twenty-four hours. The next step was to apply the base colour of Russian Green 4B0, by AMMO. This should also be left for twenty-four hours before applying the next colour, but I must admit

KV-1, ready to go! Here we see how the author built the model in sub-assemblies to make the painting, weathering and final assembly stages easier



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FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 RUSSIAN HEAVY TANK KV-1 MODEL 1941 EARLY PRODUCTION ● KIT NO.35372



The author almost always starts with a black background. Here, he reached for AMMO's One Shot Black Primer again (2023). This Spanish maker must be praised because they have finally improved the dispenser in the bottle. The primer was applied with an airbrush with a 0.3mm nozzle at a pressure of about 2.5 bar. This material is not diluted and it is worth wiping the nozzle from time to time during application



Colour number two is 7K Russian Tan. For masking, the author used 'Masking Putty' from AMMO. It forms very well and does not deform quickly. When painting individual patches of colour, it will not droop at all. The entire operation took about an hour



It is worth leaving the model twenty-four hours to dry properly. The next step was to spray the base colour, Russian Green 4B0, also by AMMO. The author applied the paints at a pressure of 0.6 to 1.0 bar. It would be worth leaving the miniature for another twenty-four hours to dry before applying the next colour, but it was actually masked and painted after thirty minutes!



The third colour 6K Russian Brown was applied exactly the same way... And all the camouflage was ready



The next step was to simulate scratches and damage to the paint coating, made with a piece of kitchen sponge and a brush. This technique requires a bit of practice and you can achieve interesting results after some time. As you can see, two AMMO colours were used here: 042 Old Rust and Light Green 082



The author emphasised the shading effect with a new product, AMMO's 'Shaders'. No speculation here on what they are made of, it's just important that it works. The colours themselves are very transparent and they were applied at a pressure of 0.5 bar very subtly, gently enhancing the shadow effect achieved with the Oilbrusher. A huge plus is a very fine pigment

◀ that I masked and painted after thirty minutes. After proper application, the surface itself should be slightly satin. Therefore, the paint should be applied in thin, transparent layers: don't try to cover everything with one stroke. It is also very important to mix the paint well.

The next step was to slightly brighten the colours. In the case of the green, I added a bit of white and yellow to the base colour and white to the others. The brightening itself is a kind of a panel lightning i.e: the centres of individual panels were lightened. In this case, I diluted the paint a little more and painted it at a pressure of 0.5 bar. The result was quite subtle which is what I wanted. Thanks to such a treatment, the colours are no longer uniform, and therefore the whole thing has been diversified to some extent.

I painted the exhaust pipes with AMMO Old Rust (042) and I treated the interior of the reflector with a Tamiya X-11 Chrome paint marker. Thus, the hull and turret were coated with Tamiya X-22 Clear, as all work with oils etc., was performed over a gloss surface. As the saying goes, "so many modellers, so many ways"! Similar to the hull and turret, I painted the wheels first with 4B0 and then lightened their centres. ▶



It's time for the dirt. The author started with the sides and the hull underside. For this purpose, a minimal amount of products were used: Heavy Earth (1704) on the sides, with all the nooks and crannies treated with Liquid Dark Mud (1405), creating darker areas of dirt



The author mixed Dark Earth (3007) and Europe Earth (3004) pigments and with a round brush, flicked this over the mixture previously applied to the hull



In the case of wheels, the colours and technique are the same as the hull. Additionally, the author used Chipping Colour (044). Although the sides of the lower hull were meant to be very dirty, they were not treated neglectfully

In order to create an appropriate base colour for treatments to follow, the tracks were given a coat of Tamiya XF-10 Flat Brown, followed by a weathering treatment of AMMO Track Wash, Dark Earth, Europe Earth and thinners



FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 RUSSIAN HEAVY TANK KV-1 MODEL 1941 EARLY PRODUCTION ● KIT NO.35372



In order to make everything look naturally harmonized, the author used the same products to dirty-up the wheels. The polished running surfaces were 3009 Gun Metal pigment, which were applied by fingertip

This is the moment to put on the fenders permanently and start weathering the upper parts of the vehicle.

The whole operation started with ordinary soil. It was sprinkled on the model with a small spatula, with corrections made with a brush



Then, it was fixed with Sand & Gravel Glue (2012).

The whole thing looks like wet slush, but after drying it looks fine



❶ After these treatments, I started the colour washes. I used the so-called 'pin-wash', which means that I did not pour the 'wash mixture over the entire model, but only around the protruding elements and into recesses, such as panel dividing lines, etc. For this purpose, I used AMMO's ready-made products, in this case, Dark Brown Wash (1005). I then had to prepare the only elements that did not

come from the Tamiya box: the towing cables, as the included nylon string did not look like them. I used a Eureka XXL product cut to the right length here.

IT'S TIME FOR THE DIRT!

I started with the sides and the hull's undersurfaces. For this, I used a really minimal amount of products: AMMO Heavy Earth (1704) on the sides and the nooks and crannies with Liquid Dark

Mud (1405). I mixed Dark Earth (3007) and Europe Earth (3004) pigments together and with a round brush, flicked the mixture onto the hull. Here and there, I also applied some AMMO Fresh Engine Oil enamel (1408). I tried not to cover the entire chassis with mud, so as not to completely hide its details.

The wheels on both sides were treated in the same way. I'll remind you my

motto until you get totally bored with it: "we paint everything"! The wheels were ready to be fitted, so I was able to tweak the back, front and bottom of the model with Dry Steppe (1751) from AMMO's Splashes series. I imitated splashes of mud with a brush and a toothpick.

And when everything was dry, I was able to remove the BluTack protection from the control arms, so I didn't have





“I built the model without any upgrades, so that everyone can have an honest view of what can be achieved, straight from the box. The only exception were tow cables from Eureka XXL...”

to clean anything before installing the wheels using Revell Contacta cement, which secures the elements very well. In a word, it is worth spending a few minutes on such masking.

After these treatments, I covered the hull with Tamiya XF-86 Flat Clear varnish and in some places

differentiated the dirt with an AMMO Dark Brown Oilbrusher. I left it all to dry and started dusting the turret. I did it in a simple way by applying Kursk Soil liquid in some



FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

TAMIYA 1:35 RUSSIAN HEAVY TANK KV-1 MODEL 1941 EARLY PRODUCTION ● KIT NO.35372

- places, which I then spread over the entire roof with a brush moistened in enamel thinners. With the same slightly dirty brush, I made stains on the sides of the turret. I secured the whole thing with the XF-86 and gave the edges exposed to abrasion a metallic look with an 8B pencil. I also used the pencil to make the scratches of the edges on the hull. In this way, I came to the end of building this – in my opinion – excellent kit! ●

TECHSPEC...

TAMIYA 1:35 RUSSIAN HEAVY TANK
KV-1 MODEL 1941 EARLY PRODUCTION
KIT NO.35372

Materials:

Injection-moulded polystyrene, polycaps,
waterslide decals

Paints used:

AMMO by Mig acrylics: listed in the text

Accessories used:

Eureka XXL tow cable

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
- AMMO by Mig: www.migjimenez.com
- Eureka XXL: www.eurekaxxl.com



FV 432 Mk.2/1 CHIEFTAIN Mk.5



1:72



PKTAK05008

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1/16
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1:16

PKTAK01010

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1:35

PKTAK02132

M60A1 US Army Main Battle Tank

Hatches can be fitted opened or closed, Link & Length tracks with track assembly jig, photo-etch & clear parts included, choice of 5 markings.



1:35

PKTAK02133

Merkava Mk 2D

Hatches can be fitted opened or closed, Link & Length tracks with track assembly jig, photo-etch & clear parts included, choice of 4 Israeli Army markings. (Figure not included)

KRUPP RAUMER + Vs.Kfz.617



1:72

PKTAK05007

Krupp Raumer + VsKfz 617 1+1

Two kits in one box. Choice of 7 markings. (Figure not included)



1:35

PKTAK08004

StuG III Ausf G Early Production Blitz

Hatches can be fitted opened or closed, link & length tracks, choice of 5 markings, PE parts.

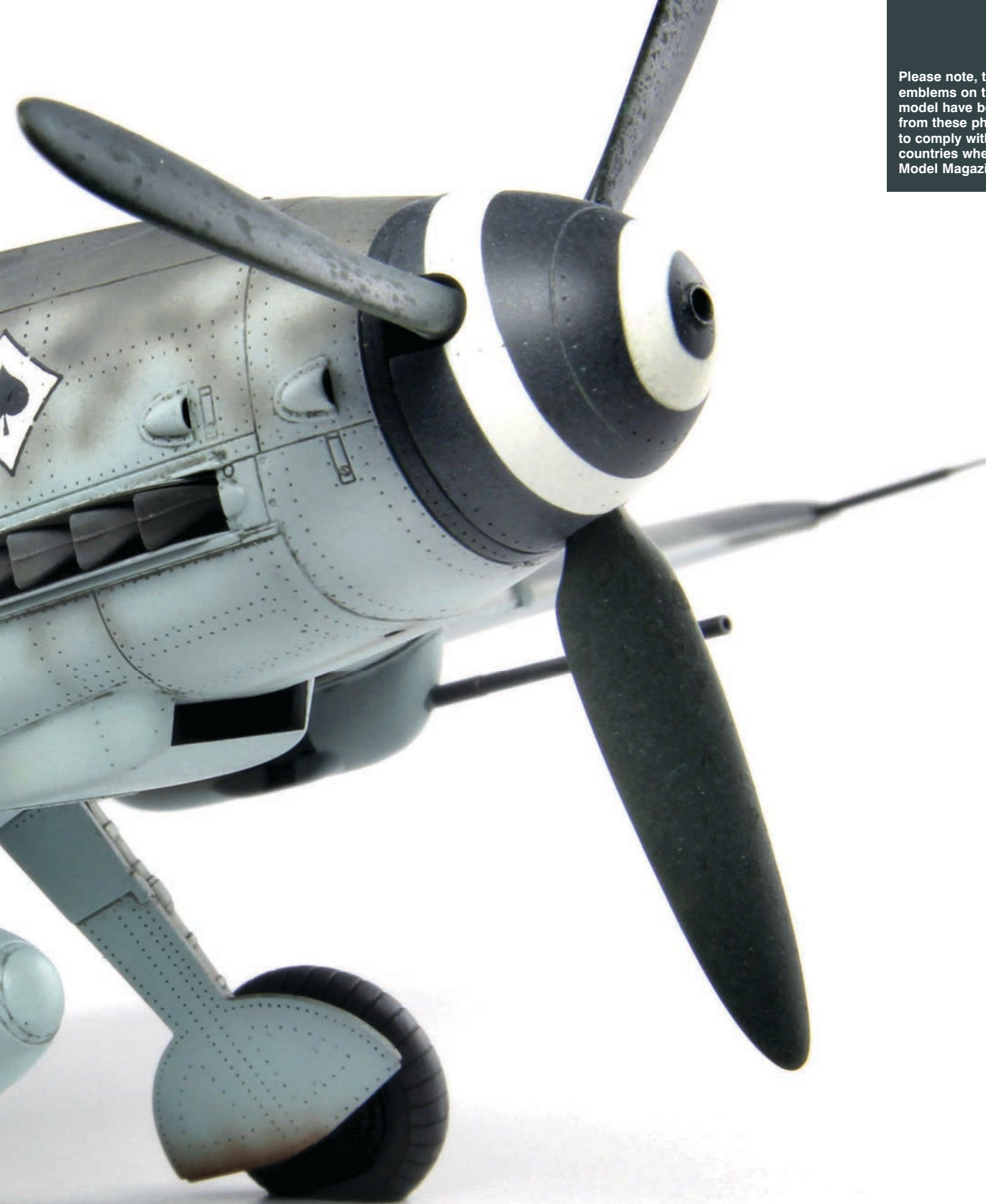


Quickboost gun barrels,
Brassin exhaust, and
BarracudaCast wheels add
some great extra detail

Jason Brewer adds some extra details to
Eduard's superb 1:48 Bf109G-6 'Gustav'

DOUBLE-DUTY GUSTAV

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



The Messerschmitt Bf109 has long been one of my favourite aircraft, but until recently I've only been collecting kits and am finally getting around to building them. I had a huge stash of Hasegawa kits but sold them all off years ago in anticipation of Eduard's release. Disappointed

with the initial tooling, I continued to wait for the 2016 retool and now, four years later, they are finally making it to my bench. For my first ever Gustav I picked 'Gelb 6' that served daytime defence duty for JG53 and also ran nightfighter missions at night for JG301.

When I sold off all of my

Hasegawa kits I kept a good bit of aftermarket sets that I thought might be adaptable to the Eduard kit. I'm glad I did, as I was able to use parts from the Aires cockpit set (4251) with minimal effort. I pieced together a more detailed cockpit than the kit offering by using the Aires sidewalls with the kit floor piece. I grabbed other

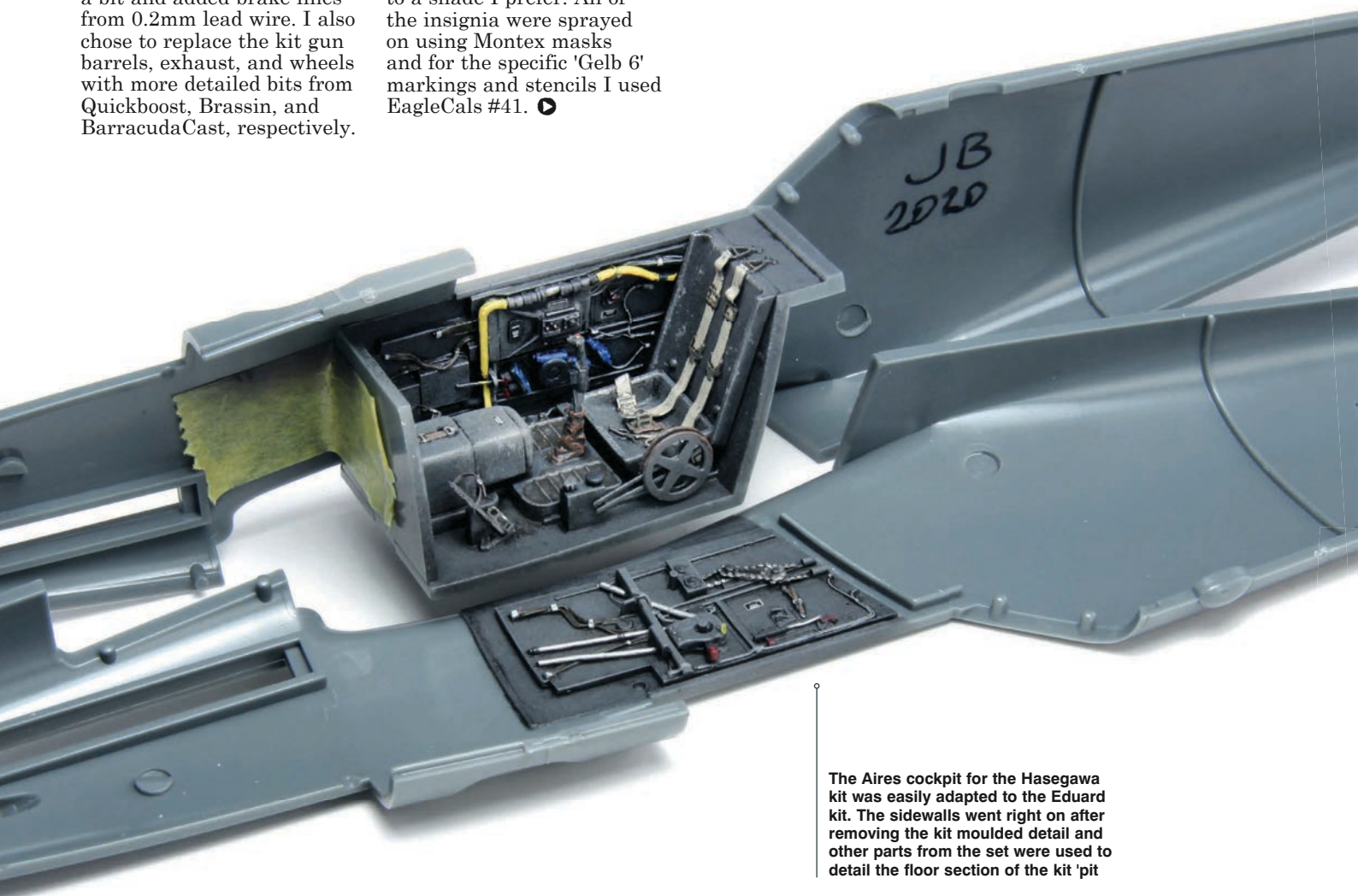
parts from the Aires set like the gun-breech cover, control column, gunsight, and PE trim wheels, along with some wiring to detail up the floor section of the cockpit. The cockpit was painted with Tamiya Acrylics, details picked out with Vallejo acrylics plus a few placard decals from Airstyle for added interest. 🍷

❏ **SAVE THAT DETAIL!**

The Eduard '109s are a joy to build and assembly was a breeze with no hurdles. The most difficult part is preserving the delicate surface detail during assembly. The gear legs are a little long making the kit stance a little too 'proud' so I shortened the main gear a bit and added brake lines from 0.2mm lead wire. I also chose to replace the kit gun barrels, exhaust, and wheels with more detailed bits from Quickboost, Brassin, and BarracudaCast, respectively.

For paint I've been using AK Real Colors lately with excellent results. They are as easy to spray as Tamiya paints and dry to a nice satin smooth finish like Mr Color lacquers, but without the offensive odour. The only issue I've had is the RLM02 is quite green so I mixed in a little RLM75 to bring it to a shade I prefer. All of the insignia were sprayed on using Montex masks and for the specific 'Gelb 6' markings and stencils I used EagleCals #41. ▶

“The Eduard ‘109s are a joy to build and assembly was a breeze with no hurdles...”

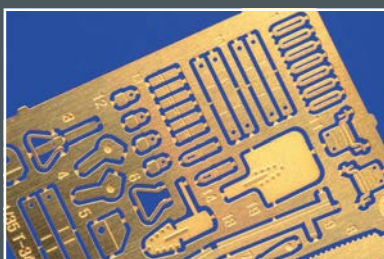
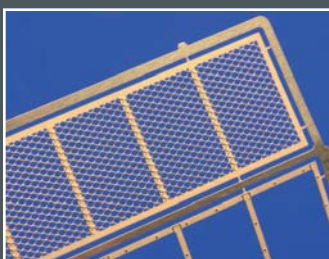


The Aires cockpit for the Hasegawa kit was easily adapted to the Eduard kit. The sidewalls went right on after removing the kit moulded detail and other parts from the set were used to detail the floor section of the kit 'pit

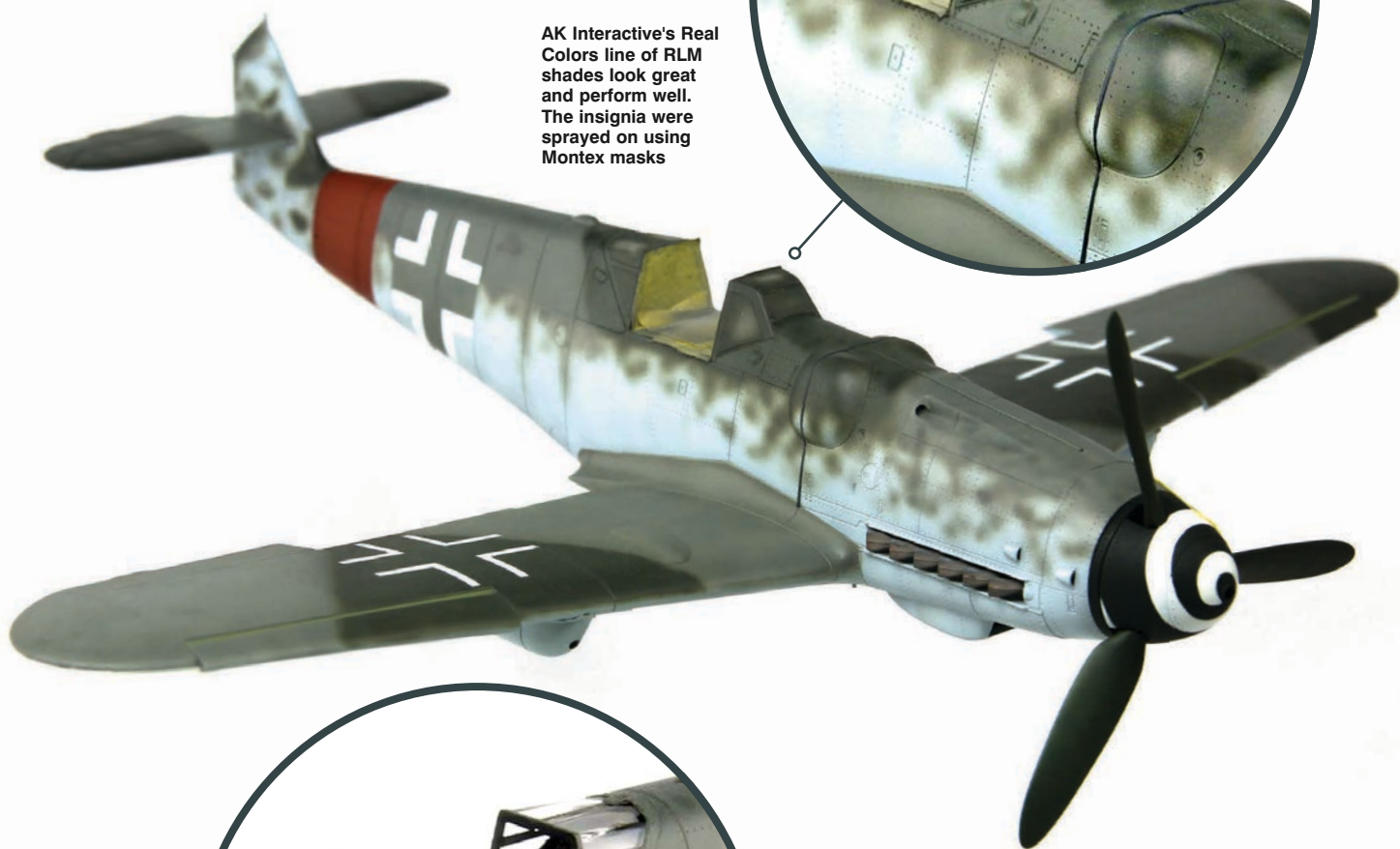
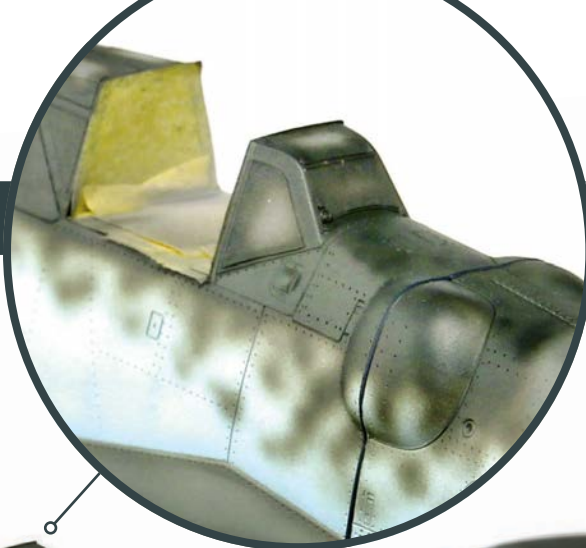
Mini Review...

**DEF MODEL 1:35 T-34 ARV 1945
 CONVERSION SET (DM35101)**
www.brengun.cz

If you have a 'spare' 1:35 T-34 kit hanging around in your stash but want to build something a little different to the standard gun-tank, take a look at this simple but brilliant set from Korean makers DEF Model. In the box is a field-modified hatch-block in resin, plus a pair of extremely useful photo-etched brass frets providing engine deck grilles and other fittings around the tank's hull. Perfect quality as always.



AK Interactive's Real Colors line of RLM shades look great and perform well. The insignia were sprayed on using Montex masks



Sealed with AK Matte Varnish and nearly ready for final assembly, unmasking the cockpit is always a favourite part of every build



● **KEEPING IT (QUITE) CLEAN**

Weathering was kept to a minimum, with just some subtle washes from AMMO's Panel Line Wash line, some minor scratching and chipping and exhaust stains applied with heavily thinned Tamiya Acrylics. The final finish is AK's Matte Varnish with Ultra Matte used in spots like the exhaust stain and high traffic areas like the wing roots.

Eduard's Gustav was an absolute pleasure to build and I look forward to tackling the others I have stashed away. I don't know why it took me so long to finally get around to building 109's but I'll certainly be cranking them out in the future. ●

TECHSPEC...

EDUARD 1:48 BF109G-6 KIT NO.82111

Materials:

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

Paints used:

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

Materials used:

- Tamiya Extra Thin Cement, Tamiya masking tape, sprue cutters, tweezers, cyanoacrylate glue, AK Modelling grey putty, Future floor polish, AMMO ultra glue

Accessories used:

- Aires cockpit set (4251)
- Eduard Brassin exhaust
- BarracudaCals wheels
- Quickboost gun barrels
- EagleCals decals (#41)

Airbrush used:

- Iwata HP-B Plus

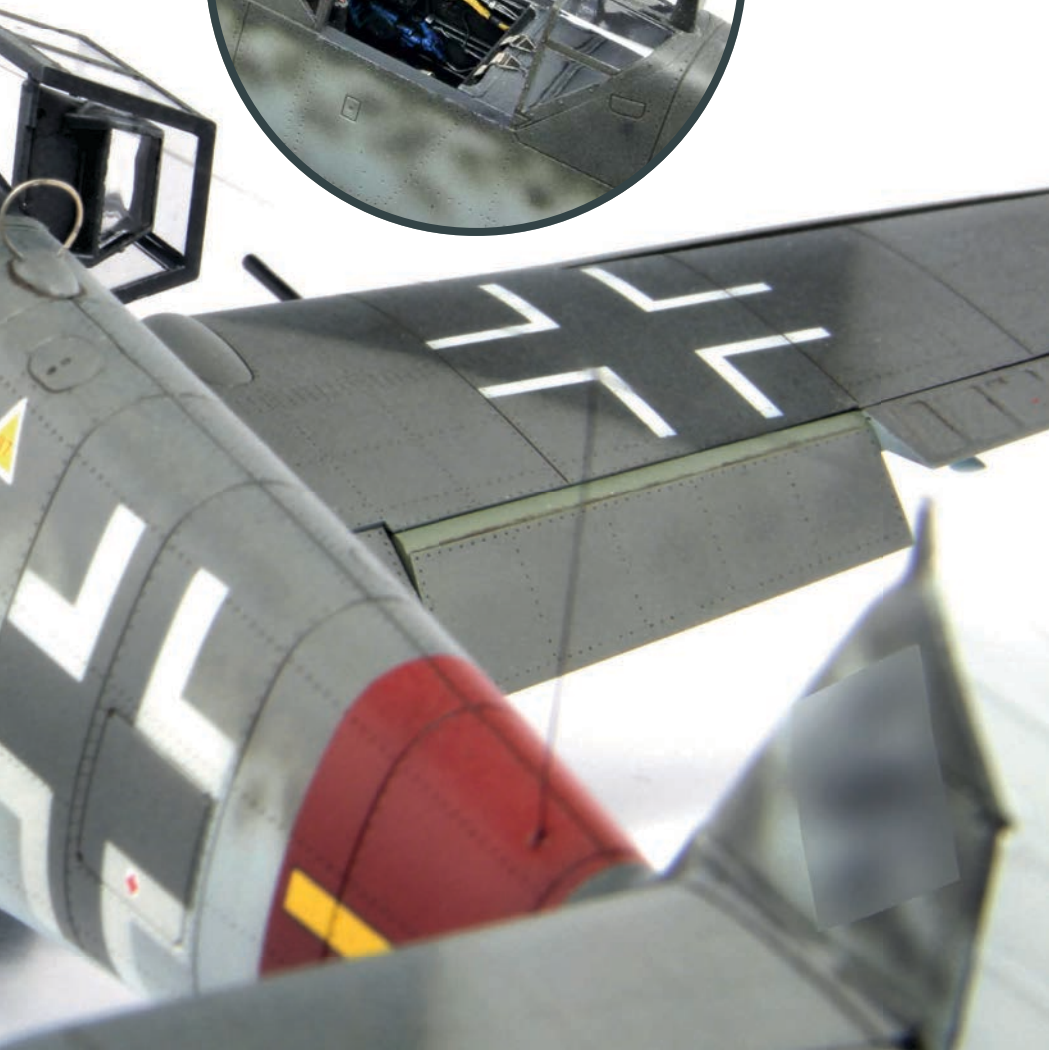
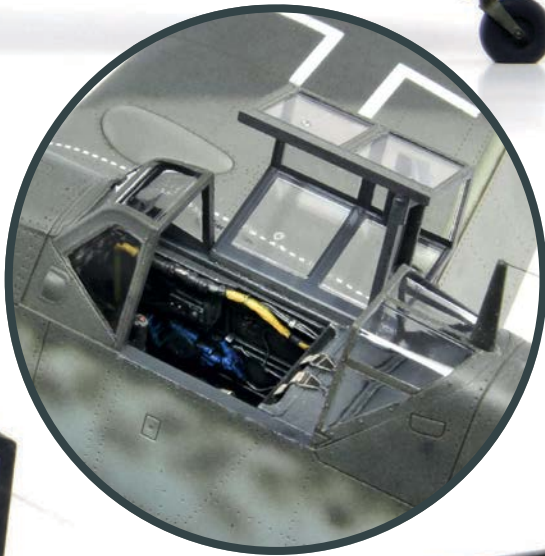
Availability;

- Eduard models and accessories are widely available from good model shops and online. www.creativemodels.co.uk
- www.eduard.com
- Aires: www.aires.cz
- BarracudaCals: www.barracudacals.com
- EagleCals: www.eagle-editions.com
- Quickboost: www.quickboost.net
- Iwata: www.airbrushes.com
- Uschi Van Der Rosten: www.uschivdr.com





Uschi Van Der Rosten's fine rigging line was used for the aerial antenna wire



Revell

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07668 E-Type Jaguar Coupé, 1:24



05677 Gift Set - Top Gun Movies, 1:72



05678 Gift Set - Slave 1, 1:88 - includes poster



05679 Gift Set - Snowspeeder, 1:29 - includes poster



05680 Gift Set - AT-AT, 1:53 - includes poster

Available from all good model stockists and online from

hobbycraft

hobbycraft.co.uk/brand/revell

KIT PREVIEW

ITALERI 1:32 TORNADO GR.4 ● KIT NO.2513



Italeri of Bologna, Italy, have tooled-up for a brand new 1:32 kit of the Panavia Tornado GR.4



WHIPPING UP A STORM

The Hobby Company, Italeri's official UK importer have kindly provided Tamiya Model Magazine with sneak-preview test-shots of the new 1:32 Tornado GR.4 and from a close-up look at the sprues it's a magnificent beast! We didn't have an instruction sheet or decals, but it is clear that it features swing-wings as per the real aircraft. The cockpit is superbly well detailed as are the undercarriage bays and engines, of which two of the latter are provided. We will bring you more

information on this kit as we receive it, but for now, check out the photos!

A LITTLE TORNADO HISTORY

The Tornado Gr.4 arose from a collaborative project between Italy, Germany and the United Kingdom for the production of a multi-role high-performance combat aircraft. The primary requirement however was to develop a 'state of the art' modern aircraft able to perform low-altitude penetrating strike missions. This need was met by the

development of a twin-engine combat aircraft with a variable-sweep wing. The Tornado IDS (Interdictor/Strike) was the first version to be deployed by the British Royal Air Force and designated GR.1. In 1996 the Tornado was upgraded to the GR.4 standard which was characterised by improved operational capabilities, new avionics systems for navigation and the adoption of new 'on-board' technologies. These systems enabled the effective identification and

tracking of targets and also the weapons management of the newer generation of weapons such as Paveway IV bombs and Storm Shadow cruise missiles. ●

TECHSPEC...

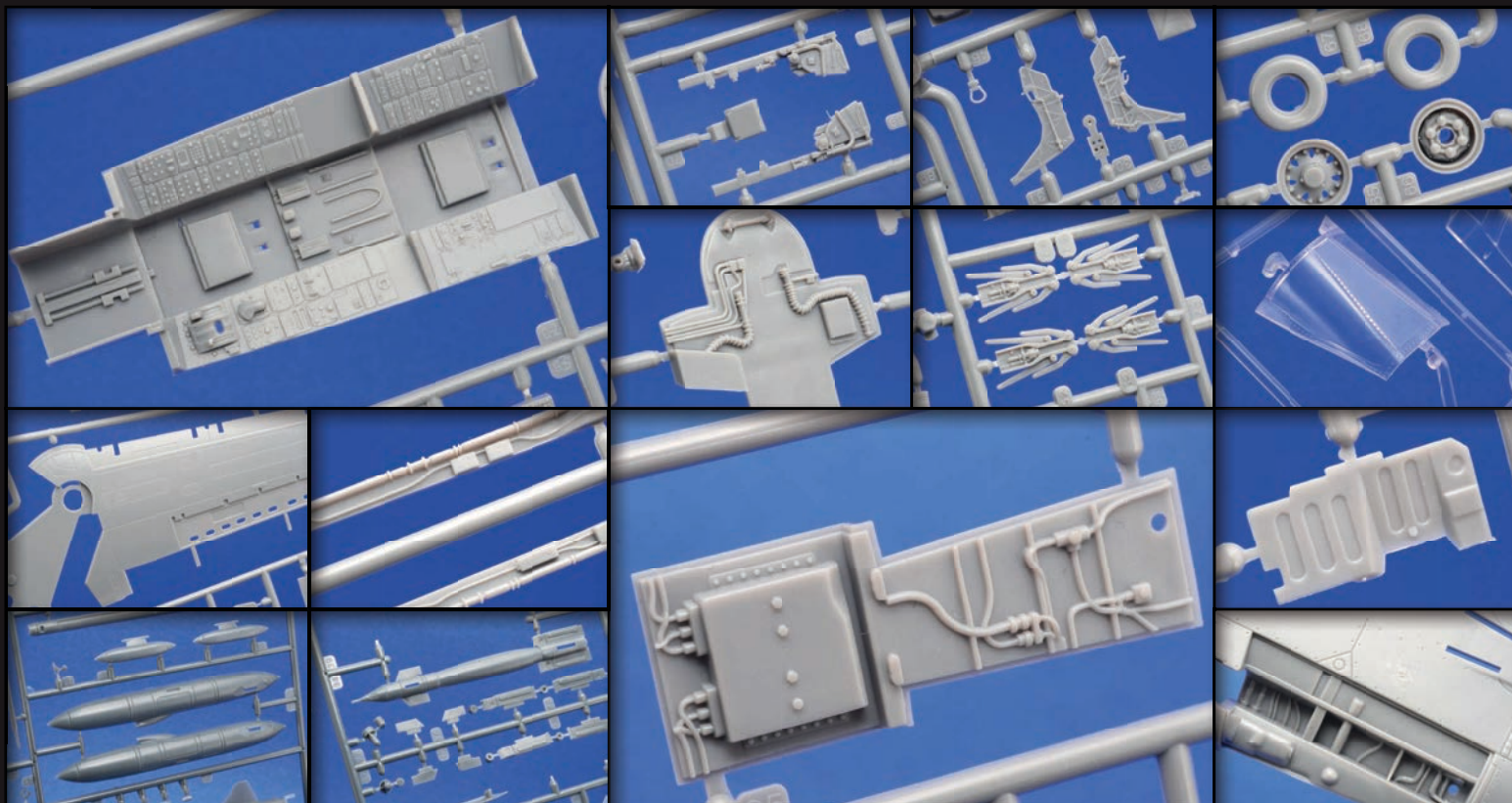
ITALERI 1:32 TORNADO GR.4 KIT NO.2513

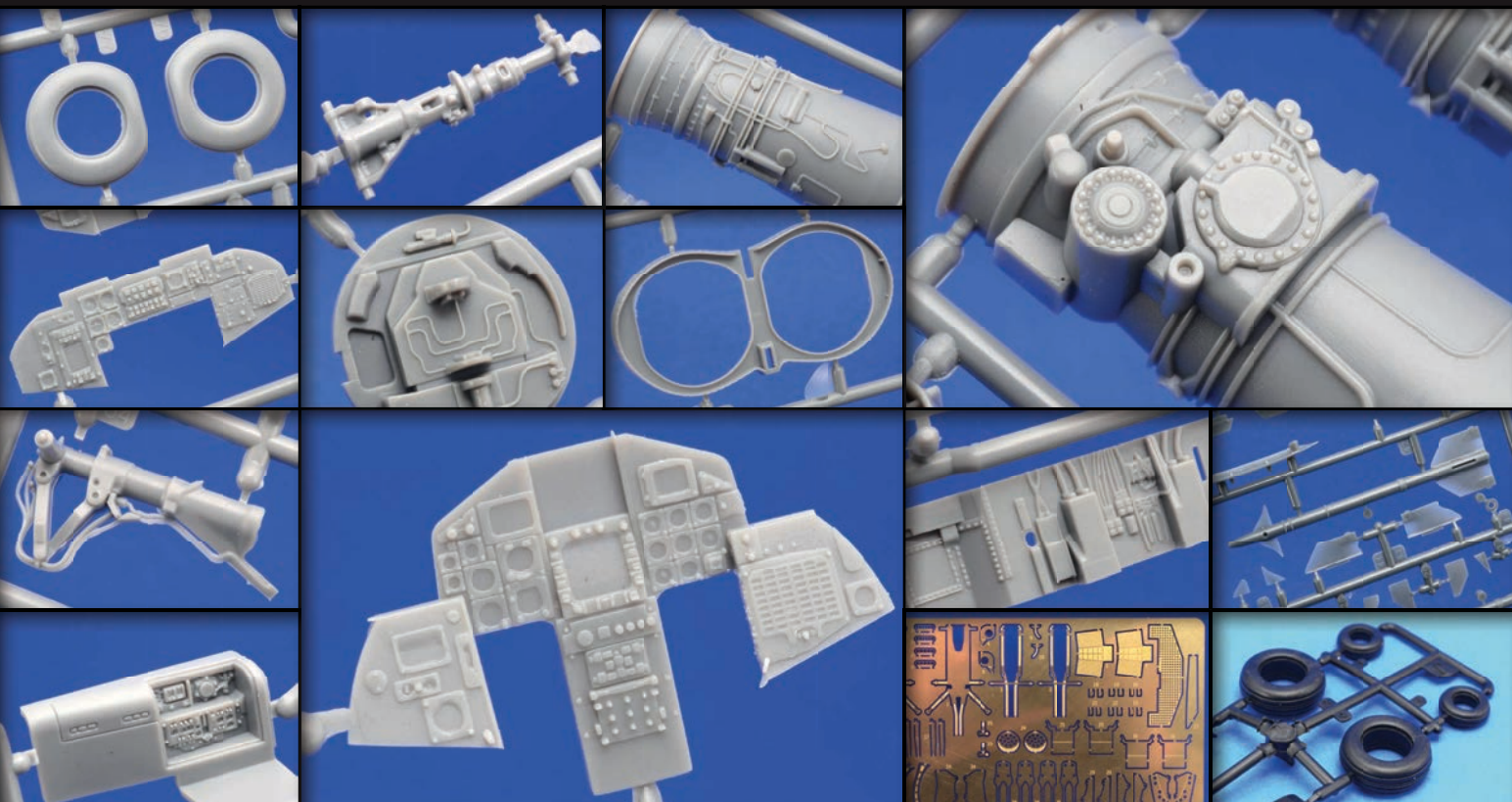
Materials:

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

Availability:

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





New Releases

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

What's in the box?

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



BLUESTUFF DECALS, FRANCE

www.blue-stuff.com

Tamiya's new-tool 1:24 Ford Mustang GT4 has been out for some months now and it is attracting some neat aftermarket products, as is inevitable these days. Arguably the most attractive livery is the 'Volt' scheme of overall acid yellow and bold graphics for this US-based lighting company. Blue Stuff's decals are beautifully printed, in perfect register and with a luscious gloss finish. Use over Zero Paints' Volt Racing Acid Yellow paint (ZP-1666, www.hiroboy.com).

**1:24 IMSA ROAD AMERICA WINNER 2018
DECALS**



AMMO BY MIG, SPAIN

www.migimenez.com

A range of handy scale modelling products arrive at TMMI towers recently, including a selection of neat, multi-purpose sanders in several grades of abrasive. Perhaps a less often reached for product will be the 'remover sponges', which are designed to mop up colour-wash excesses and the like. They are formed from small-cell rubber foam and are will be handy during the weathering stages of model projects. Finally, we have a set of four acrylic paints, formulated to replicate the interior colours of WWII Japanese aircraft and these will be very convenient indeed.

**REMOVER SPONGE FOR
WASHES AND PIGMENTS
(A.MIG-8560/1/2)**



EURO DECALS, UK

www.fantasyprintshop.co.uk

Design for the McDonnell Douglas F-15C in 1:72, Euro Decals' new decal sheet provides some spectacular markings to recreate the Oregon Air National Guard's 2016 special scheme. Massive eagle heads adorn the fuselage either side of the cockpit and the wings receive huge grey wings. It really is rather fabulous and can be used on any of the F-15C Eagle kits currently on sale.

Also new is a fantastic set for the F-86 Sabre and variants in 1:32. Six schemes (with variations) are offered and all are very attractive. Both sets are printed in the UK to extremely high standards.

1:72 MCDONNELL DOUGLAS F-15C OREGON ANG SPECIAL 2016 (ED-72122)

1:32 VERY COLOURFUL SABRES (ED-32101)

Accessories

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

ANYZ, GERMANY

www.anyz.io

We took a brief look at these tiny and amazing superdetail items last issue and we are still impressed by them! Anyz is a new manufacturer from Germany and they are employing 3D printing technology to form tiny resin knobs, switches and dials in 1:48, 1:32 and 1:24 (with some crossover between scales) for use in aircraft cockpits, cars and anything else you wish to up-detail. The 3D printing is extremely high-resolution so all you need to do is trim the part from the backing sheet and fit to your model, or paint it first then install. Anyz also produces data decals, braided cabling, and even super-fine paint brushes, the latter in partnership with the highly respected Kolibri brand.

1:48

- Dials and Knobs X200 (AN034)

1:32

- Spark Plugs (AN012)

1:32/1:35

- Knobs X80 WW2 (AN031)

- Dials and Knobs 2 X200 (AN029)

1:48

- Universal Labels and Stencils Pt.1 white (AN005)

- Universal Labels and Stencils Pt.2 white (AN006)

1:32/1:35

- Universal Labels and Stencils Pt.1 white (AN001)

UNIVERSAL SCALE

- Universal Placards and Symbols (AN020)

BRAIDED LINE 0.5MM X 2 METRES (AN011)

- Black (01)

- Khaki (13)

- Rust Brown (09)

BRAIDED LINE 0.8MM X 2 METRES (AN015)

- Black (01)

- Grey Silver (02)

- White (03)

MARTISAN KOLINSKY PAINT BRUSHES FOR DETAILS THREE-BRUSH SET (ANSET07)



BRENGUN, CZECH REPUBLIC

www.brengun.cz

Newly released polyurethane resin and photo-etched brass detail sets from this Czech producer include a set of beautifully detailed underwing ordnance pylons for early F/A-18 A/B/C/D Hornets and 1:72 wheels/tyres for Republic P-47N Thunderbolts. Superb resin castings and precisely formed photo-etched parts.

1:144

- Ki-43-I Hayabusa photo-etched details (BRL144163) for Platz

1:72

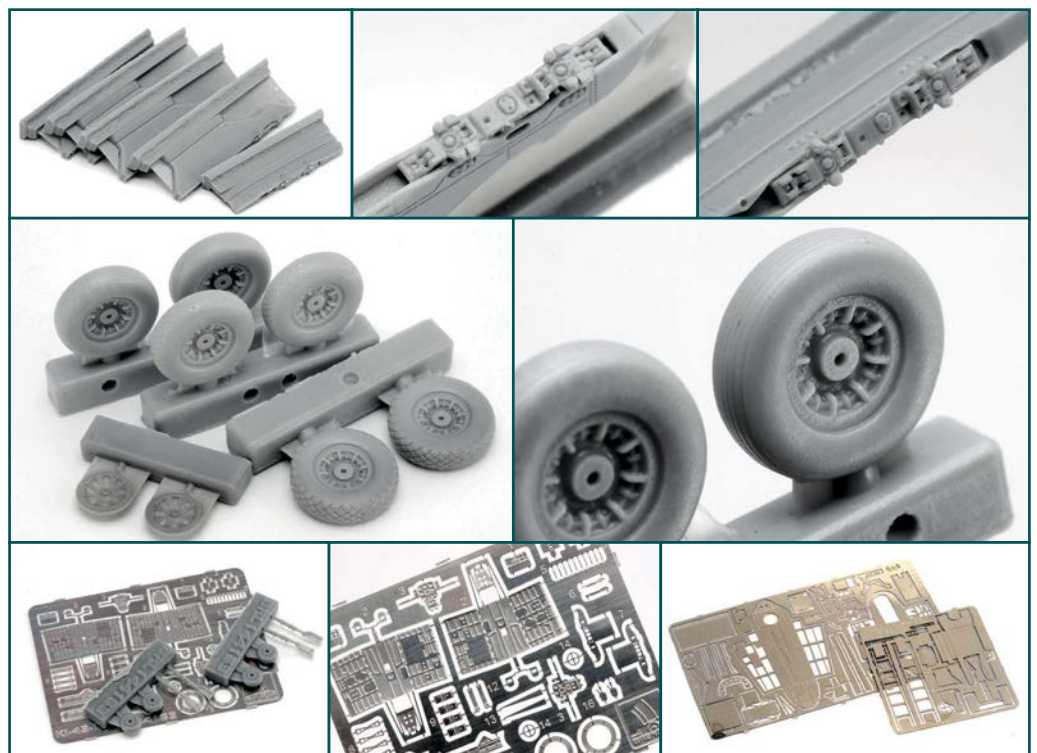
- Heinkel He-115 photo-etched details (BRL72210) for Revell

- RATO for A-4 Skyhawk resin (BRL72212)

- P-47N wheels three patterns (BRL72214)

1:48

- F/A-18 A/B/C/D Hornet pylons resin (BRL48138)

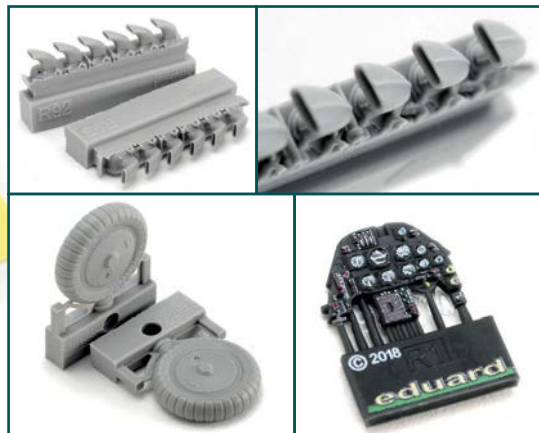
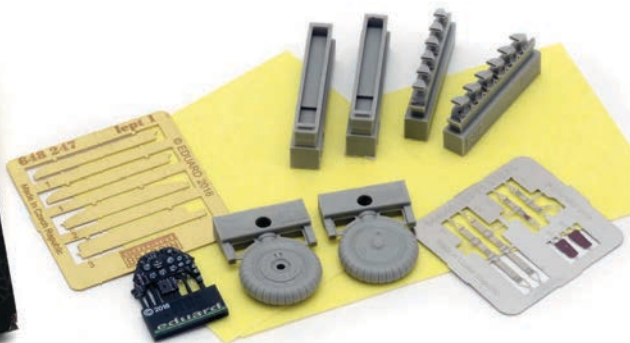


New Releases

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

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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, **PEBM**; PHOTO-ETCHED BADGES/MIRRORS,
PCM; PRE-CUT MASKS, **PMP**; PRE-ASSEMBLED METAL PARTS), **PS**; PAPER STRIP, **R**; RESIN, **SVT**; SOFT VINYL TYRES (OR TUBING), **VF**; VINYL FIGURES, **VFP**; VACUUM FORMED (PLASTIC),
WC; WOVEN CORD, **WD**; WATERSLIDE (DECALS), **WS**; WOODEN STRIP



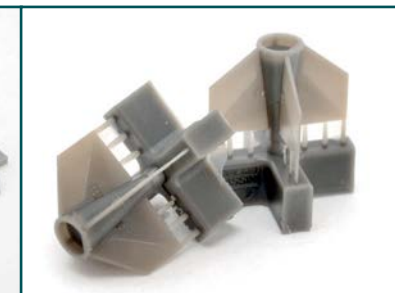
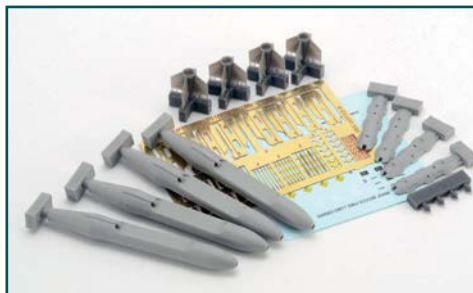
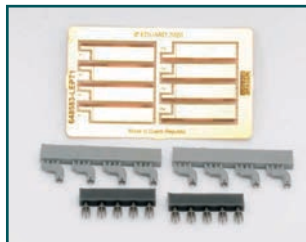
EDUARD, CZECH REPUBLIC

www.eduard.com

A new sub-product line for Eduard is Löök+ which comes in the smaller 'Brassin' box but includes the 'Löök' instrument panel along with other resin goodies for the subject. Confused? It's okay, this is a really neat idea that allows the modeller to add some key upgrades but within budget. I also new are four UB-32A-24 rocket launchers for Soviet/Russian military aircraft and a set of JDAM bombs for their USAF opponents. Wonderful quality as always from Eduard.

1:48 BRASSIN LÖÖK+

- Bf109G-6 (64460) for Eduard



1:48 BRASSIN

- UB-32A-24 Rocket Launchers X4 (648574)
 - GBU-31(V)3B JDAM X4 (648563)
 - Bf109G Eberspächer acoustic pipes (648583) for Eduard



INFINI MODEL, SOUTH KOREA

www.blackmikemodels.co.uk

Occasionally, a new product comes to notice because modellers use it and rave about it. That is the case with these sanding sticks and pads. This is a set of pads or sticks of different grades from a very rough 220-grade, through 400, 600, 800, 1000, 1500, 2500, to a silky smooth 4000-grade. The sanding sticks are stiff sponges, 17cm long and 2.5cm wide, with the abrasive surface on both sides. The sanding sponges are pads in the same abrasive grades, 14cm by 10.5cm, with the abrasive on one side only. These pads are soft enough to be curved around a fuselage or hull and can be readily cut into smaller pieces for tricky areas. Definitely well worth a look.

SOFTBACK SANDING STICK AND SOFTBACK SANDING SPONGE (ISS-0000G, ISP-0000G)



BRENGUN 1/72 -plastic kits
 BRP72042 Yak 1b GC-3 Normandie
BRENGUN 1/144 -accessories
 BRL144162 Mirage Ladder
BRENGUN 1/144 -construction kits
 BRS144050 BTR-60 PU
BRENGUN 1/72 -resin construction kits
 BRS72017 SO-1221 Djinn
BRENGUN 1/72 -accessories
 BRL72208 Arado Ar-396 (AS model kit)
 BRL72209 Morane-Saulnier MS.225 (Heller/Smer kit)
 BRL72210 He-115 (Revell kit)
 BRL72211 A-4C conversion (Airfix kit)
 BRL72212 Rato rockets (A-4 Skyhawk)
 BRL72213 Mirage Ladder
 BRL72214 P-47N Wheels (3 type of pattern)
BRENGUN 1/48 -accessories
 BRL48133 AIM-9X (2pcs)
 BRL48134 MKXVII Depth Charge
 BRL48135 F/A-18 Wheels
BRENGUN 1/32 -accessories
 BRL32040 AGM-45 Shrike

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New Releases

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

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TAMIYA, JAPAN LOTUS SUPER 7 SERIES II

www.tamiya.com www.hobbyco.net

SCALE: 1:24

MATERIALS: IM, SVT, PE, WS
ITEM NO.24357

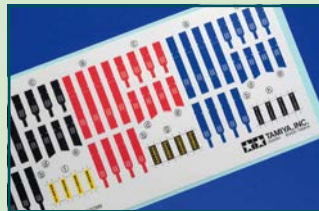
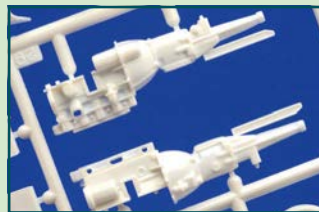
It is extremely difficult to believe Tamiya first released this kit back in 1984, but the year-stamps on the sprues don't lie. The detail and precision incorporated within the model's components is as sharp and punchy as a new-tool kit: well of course it is, it's Tamiya! It hasn't been re-issued for a long time and now, and with this edition the little Lotus 7 comes with a sheet of photo-etched nickel-steel that carries the front grille, front and rear radiator matrices, carburettor plate, brake-disc faces and buckles for the racing harnesses. The belts for the latter come in the form of a colour-printed, self-adhesive sheet, with belts in black, red and blue. As these are made from thin plastic film, a coat of flat varnish will improve their final appearance. Also new to this edition are four, tiny engine intake-trumpets formed from machined aluminium: a very neat finishing point for the car's four-cylinder Ford engine. All the modeller needs to add are ignition cables and perhaps some battery leads: references for these details can be found online. The decals have been redesigned and include racing numbers for the Clubman racer option and are of the usual high Tamiya standard.



A very welcome re-issue with some attractive new detail parts



Nickel-steel PE can be difficult to cut



BRENGUN, CZECH REPUBLIC MQ-8C FIRE-X

www.brengun.cz

SCALE: 1:48 • MATERIALS: R, PE, 3D, WS • ITEM NO.BRS48015

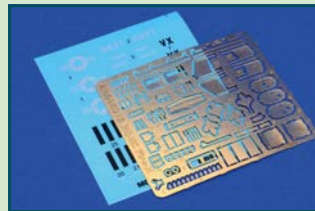
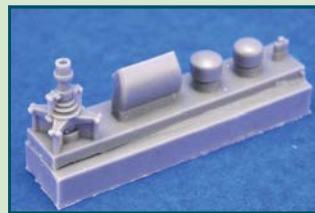
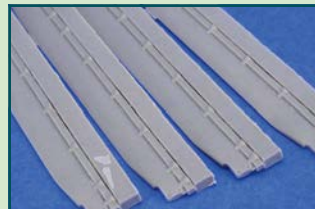
The Northrop Grumman MQ-8C Fire Scout – known as 'Fire-X' during development – is an unmanned helicopter, developed by Northrop Grumman for use by the United States Navy. The MQ-8C also has autonomous take-off and landing capability and is designed to provide reconnaissance, situational awareness, aerial fire-support and precision targeting-support for ground, air and sea forces. The MQ-8C airframe is based on the Bell 407, while the avionics and other systems are developed from those used on the MQ-8B Fire Scout. It first flew in October 2013 and achieved initial operational capability on 28th June 2019. History edited from Wikipedia. Brengun's new kit of this peculiar machine is cast entirely in grey resin, supplemented by a fret of photo-etched brass parts, copper rod, 3D-printed rotor head and waterslide decals. The Bell 407 is a nice size in 1:48 and, as this is an unmanned drone, all windows are blanked off which obviates the need for clear parts and, of therefore, interior detail! The tail-boom, rotor blades, fins and sensors are all formed from resin and sport some superb detail. The skids must be bent to shape from the copper rod and Brengun thoughtfully provide a jig – also cast from resin – for this purpose. This is an unusual but interesting subject and the kit is very nicely executed.



Something off the beaten track and a neat addition to the display cabinet



A little experience with resin will prove helpful



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, PEPM; PHOTO-ETCHED BADGES/MIRRORS, PMP; PRE-ASSEMBLED METAL PARTS), PS; PAPER STRIP, R; RESIN, SVT; SOFT VINYL TYRES (OR TUBING),



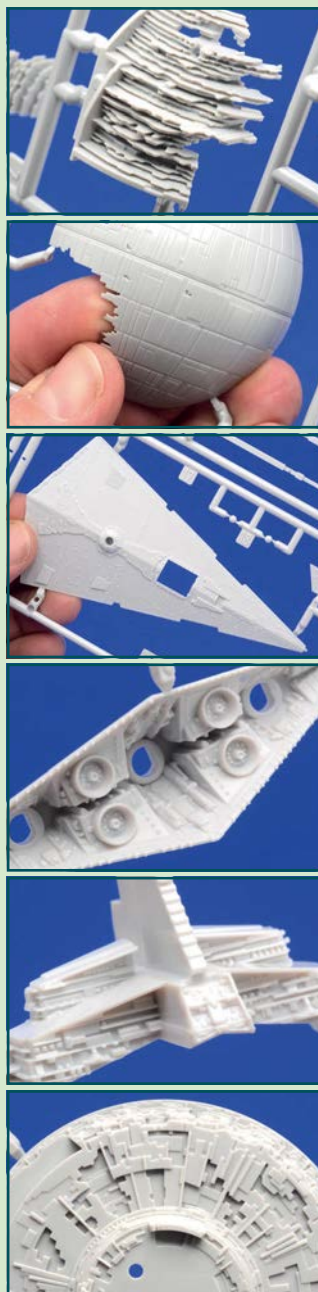
REVELL/BANDAI, EUROPE STAR WARS DEATH STAR II AND STAR DESTROYER

www.revell.de/en

SCALE: 1:2700000, 1:14500 • MATERIALS: IM, WS, SAS
ITEM NO.01207

This is the latest release in the very welcome line-up of Revell/Bandai Star Wars kits and it's one of their more modestly-sized presentations. But don't be fooled by the diminutive size of the models within the box: the detail that covers the mouldings is extraordinary and rather mouthwatering. Just two sprues of grey plastic and one in clear (for the display stands) are provided but they're enough to carry the parts for a Death Star – at the crazy scale of 1:2,700,000 – and a Star Destroyer at the far more sensible (!) scale of 1:14,500. The Death Star is the incomplete (and thus, far more interesting) version as seen in Return of the Jedi and as such, a great deal of internal layers and structures are left open to remain visible. These parts are executed with typical Bandai aplomb and the effect is staggering for such a small model: imaginative paint effects will be the key in getting the best from all this clever engineering. The Star Destroyer hull may only measure 110mm in length, but, as with the Death Star, the kit parts are buzzing with ultra fine detail which will benefit from a creative approach to painting, although really, just flat white overall will suffice at this size! These little kits really are gorgeous and they represent an affordable way of getting your hands on the Revell/Bandai Star Wars kits. And you only need a tiny display cabinet too!

-  Small but perfectly formed. Astonishing detail in such small models
-  Where's Chewbacca?



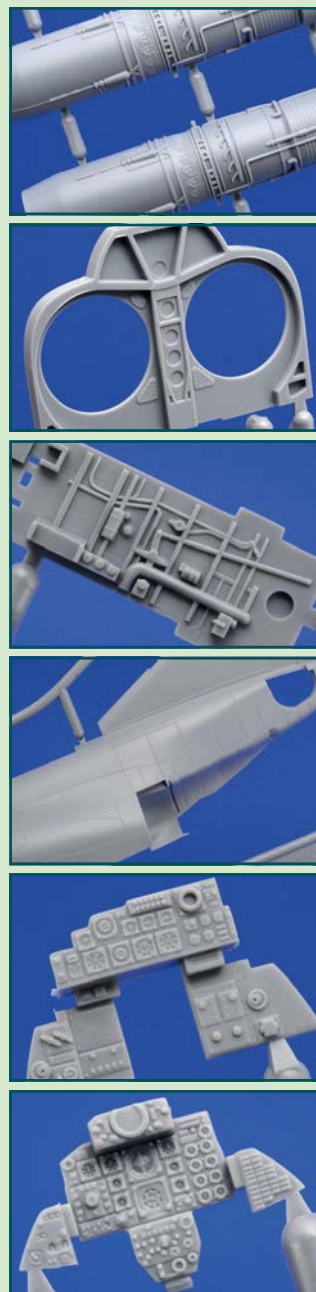
ZOUKEI-MURA, JAPAN F-4E PHANTOM II

www.zoukeimura.co.jp

SCALE: 1:48 • MATERIALS: IM, SVT, WS
ITEM NO.SUPER WING SERIES NO.10

No less than fourteen sprues of grey polystyrene (plus one of clear) are housed within the stocky box of this latest masterpiece from Zoukei-Mura of Japan, which immediately tells you that this is no quick build. But why should it be? ZM have created a highly detailed replica of this iconic jet-fighter that has been designed to be savoured over weeks and maybe months of leisurely modelling, not rushed. The kit depicts the early version of the F-4E Phantom II which was modified to carry an integral M61 Vulcan cannon and AN/APQ-120 within its elongated RF-4C nose. The F-4E was powered by J79-GE-17 engines and later variants of the 'E' received leading-edge slats to improve manoeuvrability. Just one set of markings is provided here to represent F-4E-35-MC (67-0308) 'Betty Lou' of the 388th Tactical Fighter Wing, 469th Tactical Fighter Squadron, USAF. This machine was stationed in Thailand during the late 1960s and flew combat sorties over Vietnam. Notwithstanding the single marking scheme, the decal sheet – printed by Cartograf of Italy – still measures an impressive 21cm by 30cm and much of that real estate is covered by data stencils for the airframe exterior. A very useful, four-page guide is provided for their application but set aside several days for the process! Detail within the moulded parts is exquisite, in fact it's so refined that no photo-etched parts are provided and none are needed.

-  A wonderful 'modellers' kit with tons of delicious detail
-  What's not to love about a Vietnam War era Phantom?



FROM THE WEST END TO THE WESTERN FRONT

Wayne Symons builds MiniArt's 1:35 B-Type Military Omnibus of the 91 Army Service Corps MTC as it would have appeared at Ypres in the spring of 1915

Introduced in 1910, when most buses were still horse-drawn, the London General Omnibus Company (LGOC) B-type was London's most successful mass-produced motor-bus. At the end of production approximately 3,500 B-type vehicles had been built. The chassis consisted of ash planks sandwiched between steel plates which gave the structure strength and flexibility. A 32hp petrol engine gave power to the rear wheels via a worm drive and a chain-driven gearbox, the wheels themselves being made from pressed steel fitted with solid rubber tyres.

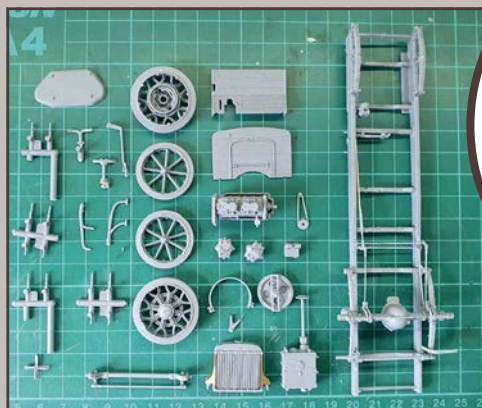
The design and production techniques meant that the vehicle was not only rugged but also easy to maintain, making it ideal for use in the harsh conditions of London's busy streets and consequently the Western Front. To comply with the Metropolitan Police speed limit the engine was fitted with a governor to keep the speed below 16mph. Although in war service, maintenance of the governor was often 'neglected' allowing the bus to



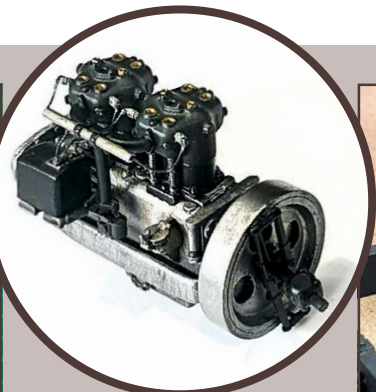


FULL-BUILD: WORLD WAR ONE MILITARY VEHICLE

MINIART 1:35 B-TYPE MILITARY OMNIBUS ● KIT NO.39001



The major components of the chassis and engine all assembled and ready for primer and paint



Apart from the spark plug leads, very little needed to be added to the engine. The crankcase and flywheel were painted aluminium and steel respectively with a semi-gloss black on the cylinders. The whole engine was given an oil paint wash to give a grimy appearance



The level of detail in this kit is exceptional, it's almost a shame the most of it will never be seen again

◀ achieve speeds of 35mph on good roads, however when in convoy the average speed was only 10mph.

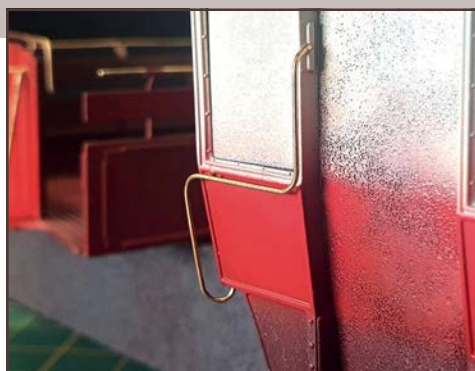
The body of the buses were of wooden construction and local regulations required that the paint work was to be 'properly' applied and maintained which resulted in at least twelve coats of paint and six of varnish. In peace time there was room for eighteen passengers on the upper deck and sixteen on the enclosed lower deck, giving a total of thirty-four. In war service this was reduced to twenty-four to allow for the soldiers' equipment. After the outbreak of war in 1914, London buses, along with their drivers and mechanics, were requisitioned for the war effort. The crews became soldiers of the Army Service Corps and due to the constant need for mobility, were never off duty. They were not given sleeping quarters and had to sleep on their vehicles stowing their belongings in wooden boxes.

Over 1,300 B-Type vehicles went on war service, mostly to France and Belgium, with some travelling as far afield as Egypt. The buses were used to transport troops to and from the front line and were also put to use as ambulances and even mobile pigeon lofts. A number of these buses went to France still in their LGOC red livery and after a few weeks they were painted in a more suitable colour by their crews. It seems likely that this was a khaki-green although contemporary

witness accounts describe a wide variety of colours. It was also observed that quite often the khaki paint would be chipped and worn through and the old red colour would show, bringing back memories of when these buses had travelled London's streets. The windows would often get broken by the soldier's rifles and equipment so in the end they just removed the glass and placed wooden boards on the outside.

IN 1:35

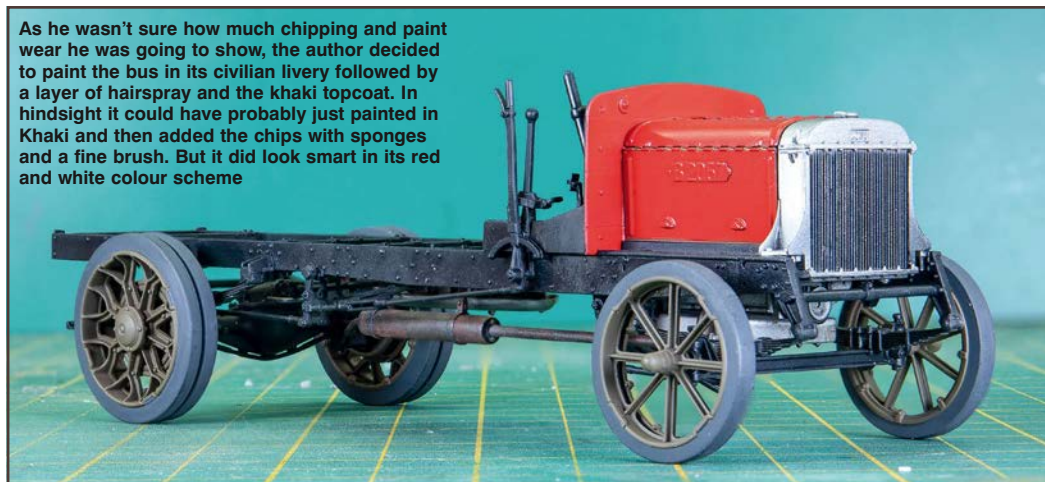
MiniArt's kit comes on seventeen sprues of grey plastic parts, all of which come tightly packed into one plastic bag. One of the rear fenders had snapped as a consequence and considering how delicate some of the parts are, I was surprised that there wasn't more damage. Separately packed are three clear sprues, a small sheet of photo-etched brass and a decal sheet which provides five markings-options.



There are many delicate parts such as the linkages and handrails that have a multitude of attachment points, making clean-up very difficult and breakages are almost inevitable. Here, the author had to make a new hand rail from brass rod



As he wasn't sure how much chipping and paint wear he was going to show, the author decided to paint the bus in its civilian livery followed by a layer of hairspray and the khaki topcoat. In hindsight it could have probably just painted in Khaki and then added the chips with sponges and a fine brush. But it did look smart in its red and white colour scheme

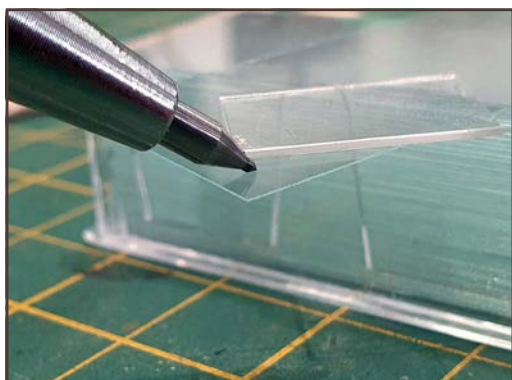


I have to say that the quality and detail of the mouldings is exceptional and apart from one sprue that obviously had a mould issue, there appeared to be no flash or ejector-pin marks. The highly detailed instruction booklet is twenty-eight pages long, with colour plates at the beginning and end pages depicting the five options. Construction began with the engine, which soon built up to a nicely detailed replica. Using images and videos gathered from the internet of the London Transport Museum's restored 'Battle Bus' as a reference I felt that there really was nothing that needed to be added. Maybe the valve springs could be improved upon but to be honest once installed very little will be seen even with the bonnet raised. The builder is required to provide wire for the HT leads and the instructions give the measurements for the length to which they must be cut. There are photo-etched clamps for attaching the leads to the spark plugs but these seem somewhat over-scale so I decided to omit them.

The chassis is next and consists of the two main beams plus ten cross members and care must be taken to ensure that each of these is in the correct order and orientation and that the whole thing is kept square whilst the glue sets. Various sub-assemblies were then assembled and painted before adding to the chassis, including suspension springs, axles, gearbox and a beautifully detailed radiator. 🎧



Some stencils were from the scanned decal sheet using the excellent Silhouette Portrait desktop cutting machine and the markings were sprayed on. The author prefers this method where possible to avoid the risk of carrier film showing. This method means that one doesn't really need to apply any extra layers of varnish. The markings were then sanded back slightly to give a faded appearance



The author used some microscope cover-slips to replace the plastic windows. You can see from the photo the difference in the thickness. The original plan was to use them only where the broken windows would be but, in the end, all were replaced. Using the originals as a template the glass can be gently scored using a tungsten tipped engineers scribe and then snapped to size. The windows were then glued in place with VMS's Transpa Fix



Breaking the glass was a little harder than anticipated, but after a couple of attempts though the author got a result that he was pretty happy with. It would be easy to get carried away with smashing windows but in the end, it was decided just one would be broken and one cracked

“The highly detailed instruction booklet is twenty-eight pages long...”

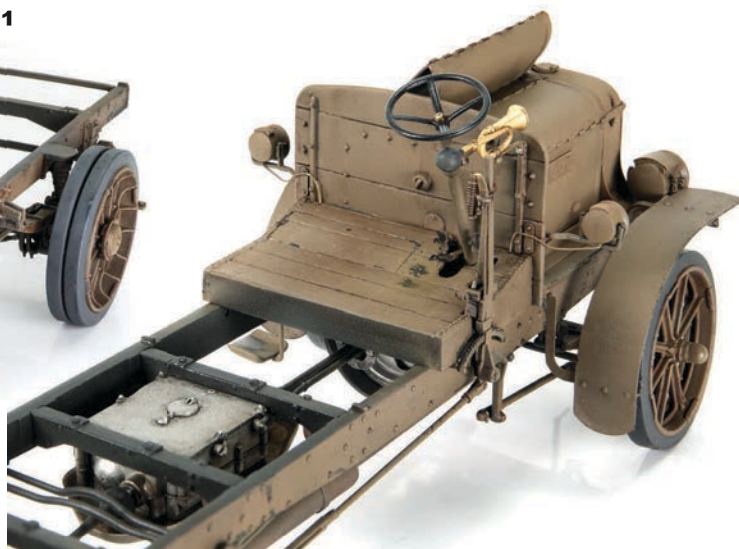
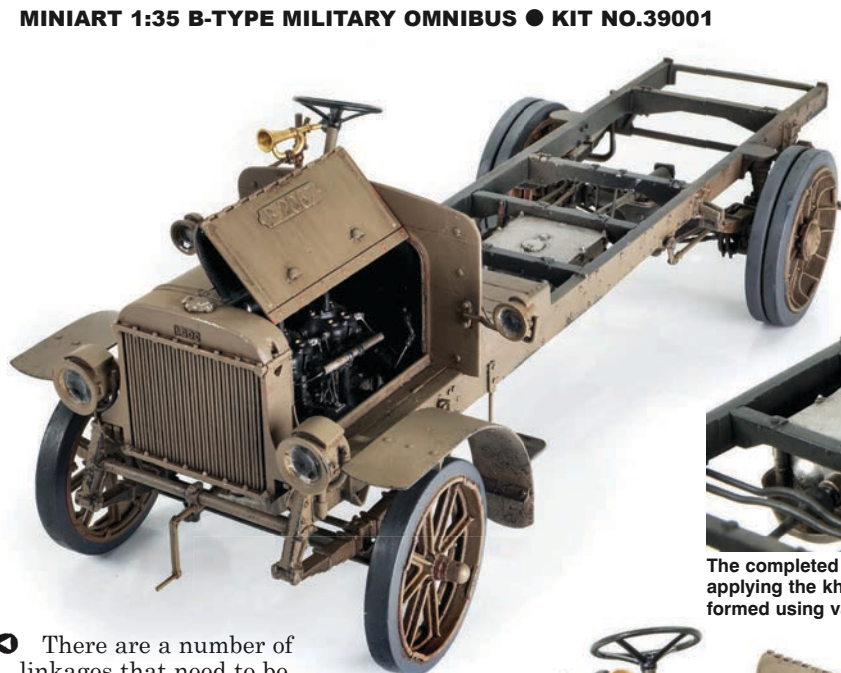


The floors and benches were painted a wood colour and then given a top coat of a glossy red brown. This was then gently sanded back to reveal the wood in areas of wear. Oil washes and earth pigments were applied to give a dirty but dry appearance. The poster is included in the instruction sheet and the author thought it might add some interest but it can't really be seen on the completed model



FULL-BUILD: WORLD WAR ONE MILITARY VEHICLE

MINIART 1:35 B-TYPE MILITARY OMNIBUS ● KIT NO.39001



The completed chassis was given a couple of coats of hairspray before applying the khaki. After wetting the surface, scratches and chips were formed using various sharp implements and brushes

❶ There are a number of linkages that need to be added for the rear brakes. These are very delicate and care needs to be taken when removing them from the sprue. This leads me to my only real gripe with the kit and that is that there are so many sprue attachment points. Maybe it's necessary to get the amount of detail that they have, but clean up of the many parts took up a major chunk of the time taken to build this kit. Once the firewall, cab floor and bonnet parts were fitted, the chassis really begins to take shape. I wanted to have the bonnet open to show off the engine and this does require a degree of filing and sanding to get the panels to sit correctly.



The inside of the lights were painted with Molotow liquid chrome and bulbs added with some clear stretched sprue before using some clear resin to create the lenses. Wires were also added to the lights



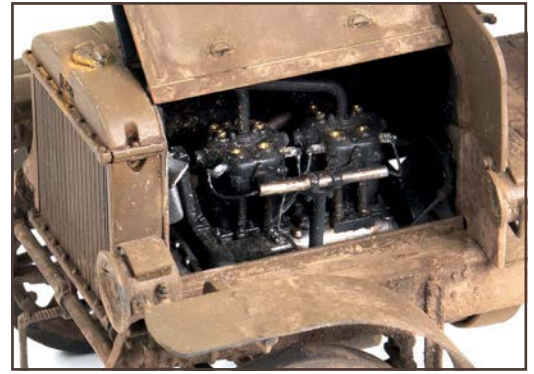
The author has a photo of a couple of these buses carrying a bicycle on the front platform. I thought this might make an interesting addition so he purchased one of the Masterbox kits. Although the bike is from WW2, they probably hadn't changed too much. The spokes were especially bothersome hence the odd bent one if you look close enough. The only modification made was to make some springs for the seat and add a lens to the light. It's actually a really nice little kit although it did reaffirm the author's love/hate relationship with photo-etch!

The wooden trunk was finished with oil paint over an acrylic tan base and the tools heads were given a metallic appearance using graphic powder. The stairs hand rail was rubbed back to reveal the brass





The 'correct' Khaki or service colour from WWI is often debated and it's arguable that there is really an exact colour, so the author went with what looked right. In this case, for a base colour, AK interactive's Real Colors Khaki Green No.3 was used, with some gloss added to get a satin sheen



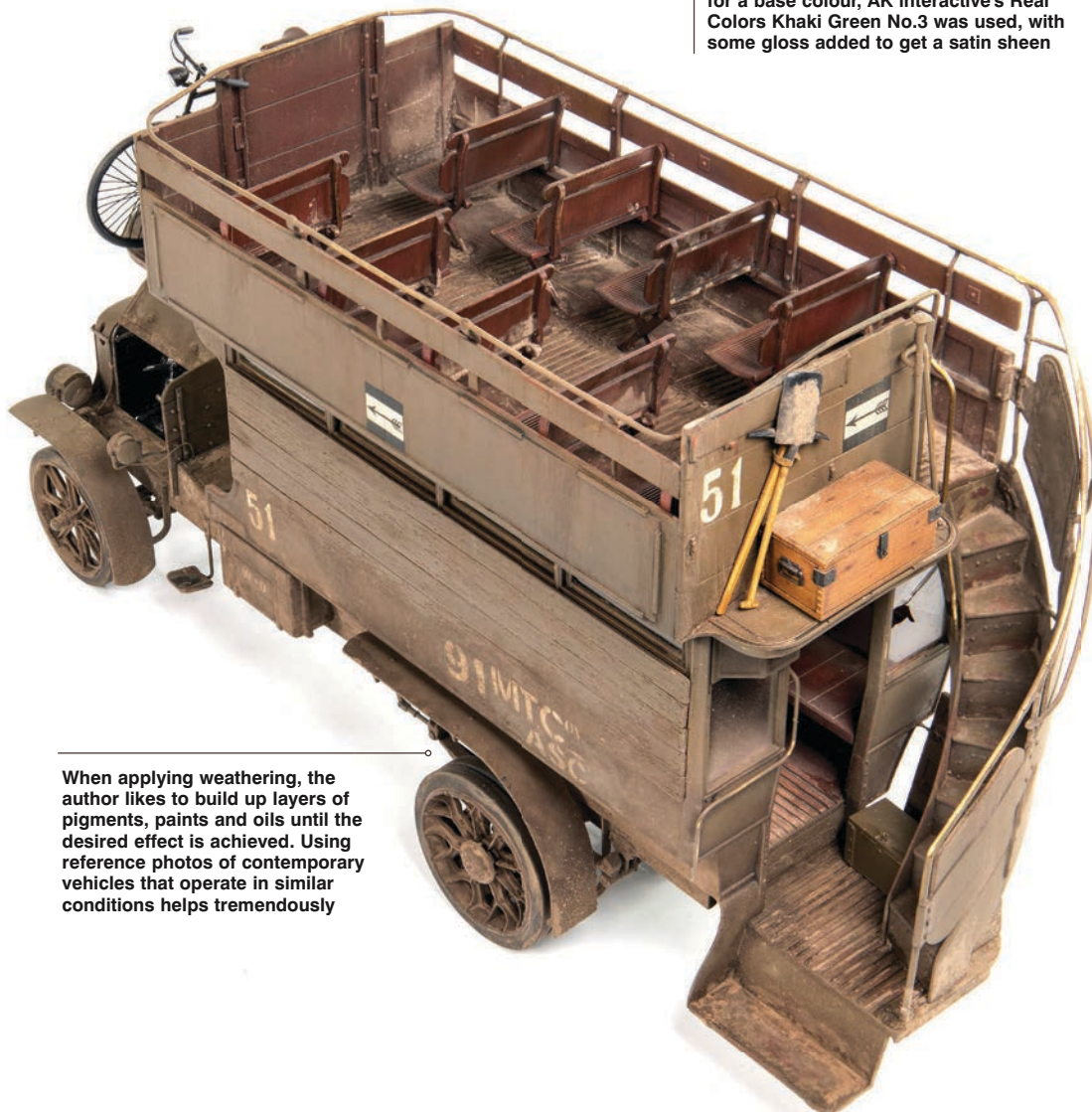
HANDLE WITH CARE

After the delicate and somewhat fiddly nature of the chassis the assembly of the bus body made for a welcome change of pace. The lower and upper deck along with stairs were all built, painted and weathered separately. These vehicles operated in a harsh environment and were in constant use throughout the war so I wanted to show a fair amount of wear and tear. I thought the best way to do this would be to paint the vehicle in various layers and then chip and sand away through the upper layers to reveal the original paintwork, wood or metal beneath.

The dirt, dust and grime were applied with various earth-coloured pigments and oil washes. Although the side windows were removed the front, back and upper windows remained and I wanted to show a couple of these cracked or broken. Using the original plastic windows as templates, I made replacement ones from microscope cover slips. Being extremely thin glass, once fitted it was just a case of tapping the glass with a sharp point to break them. The wood grain on the plastic window boards provided in the kit are a little overdone for my liking and in most of the photos I could find they seemed to use five boards rather than the six on the plastic items, so I used some wood veneer strips instead.

The completed body was attached to the chassis along with the wheels and a few detail parts. At this point the model is very delicate and difficult to handle. I managed to break the upper railings a couple of times. All that remained to be done was the final bit of weathering, again using pigments and oils and some paint for mud splashes. ➤

When applying weathering, the author likes to build up layers of pigments, paints and oils until the desired effect is achieved. Using reference photos of contemporary vehicles that operate in similar conditions helps tremendously



FULL-BUILD: WORLD WAR ONE MILITARY VEHICLE

MINIART 1:35 B-TYPE MILITARY OMNIBUS ● KIT NO.39001

FINAL THOUGHTS

In conclusion, I thoroughly enjoyed building this model. MiniArt really have included every little detail of an unusual and interesting subject. Just be prepared to spend a lot of your time cleaning up parts. I really hope that MiniArt do decide to produce the pigeon loft version to sit alongside this one. ●



Even though it will never be seen, applying weathering to the underside of models provides a chance to practise different weathering techniques



TECHSPEC...

MINIART 1:35 B-TYPE MILITARY
OMNIBUS KIT NO.39001

Materials:

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

Paints used:

AK Interactive: Real Colors Khaki Green No.3

Accessories used:

Masterbox 1:35 bicycle

Availability:

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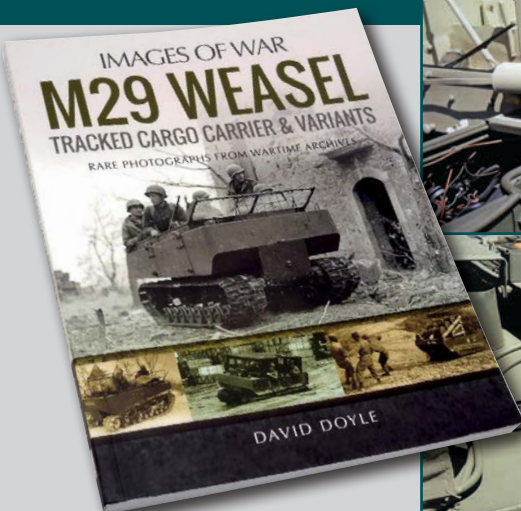
Book Reviews

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

IMAGES OF WAR: M29 WEASEL TRACKED CARGO CARRIER & VARIANTS

DAVID DOYLE, PEN & SWORD MILITARY
www.pen-and-sword.co.uk

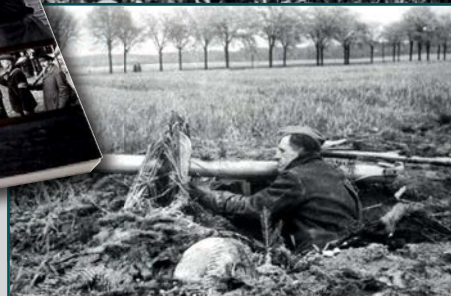
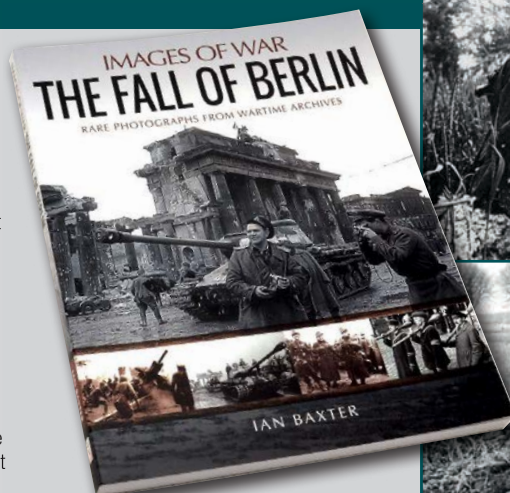
We can always rely on David Doyle to come up with the goods when it comes to the photographic examination of a military vehicle and with this recent volume in Pen & Sword's 'Images of War' series, we are treated to some superb imagery on the peculiar little M29 Weasel tracked cargo carrier. Within the 150 pages of colour and black/white photographs we have walk-around photo-studies of several examples including a Studebaker Light Carrier T15 Weasel (later M28) with its bizarre, outward-splayed roadwheels. The photos of this immaculately restored, white-washed vehicle are superb. We then move on to the second set of modern-day images which examine an equally well-preserved Light Cargo Carrier T24 (M29) in great depth. Further images of M29s follow and accompanied by a selection of wartime photographs of Weasels in action (although perhaps the most famous M29 image of 'St Lo Special' in Normandy bocage is oddly omitted) the book makes an excellent reference resource for this endearing American tracked carrier. Now all we need is a new 1:35 kit!



IMAGES OF WAR: THE FALL OF BERLIN

IAN BAXTER, PEN & SWORD MILITARY
www.pen-and-sword.co.uk

This crown-quarto format book comprises 130+ pages and takes a pictorial approach to its subject, hence its inclusion in Pen & Sword's 'Images of War' series. Despite its smaller format, the wartime photographs are generally of good quality but others are still-frames lifted from newsreel footage and thus inherently less sharp, but interesting nonetheless. While these images are fascinating (and inspiring for modellers) and the main text reasonably informative, the photo captions need more research/refinement. One of the first captions in this book (page 11) states "German troops pose along the front standing next to one of their defensive positions" when in fact the photograph shows the Maus super-heavy tank prototype stuck in the mud in March 1944 and another caption (page 31) describes an Sd.Kfz.251/10 as an Sd.Kfz.251/17. The captions alternate frequently between the muddled and the generic and are of limited use to the history scholar. Purely as a book of images that document the fall of the Third Reich in the East however, it's a good value addition to a scale modeller's bookshelf.



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Pre-order currently in production. By Marcus Nicholls.

The Lockheed P-38 Lightning is an iconic US fighter from the Second World War. Its twin Allison V12 engines were mounted in booms to free-up the nose so it could house a fearsome array of four M2 Browning machine guns and a 20mm cannon. The twin-boom airframe became a sight feared by enemies wherever it served, with good reason.

In 2019, after several years of painstaking research, Tamiya released an all-new kit of this sleek aircraft and it has taken its place proudly in the 1:48 Aircraft Series as No.120 in the range.

In this new 'How To Build' book, Tamiya Model Magazine's Editor, Marcus Nicholls, presents no less than four built-up examples of Tamiya's fantastic model; one Lightning each from Brett Green and Spencer Pollard, plus two from Marcus Nicholls.

The second of Marcus's models incorporates resin and photo-etched super-detail sets from Eduard, showing how they can be used within the build to take the detail to an even higher level. New photos of the other models show how Brett Green and Spencer Pollard built and painted the models in their own styles.

The book includes four complete builds, covering the following topics:

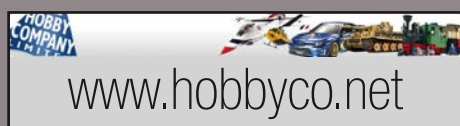
- Adding photo-etched parts
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SENNA'S BEGINNINGS

The late, great Ayrton Senna's racing cart in
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FLIGHT OF THE CONDOR

Eduard's 1:32 Bf109 in service during the
Spanish Civil War

...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.

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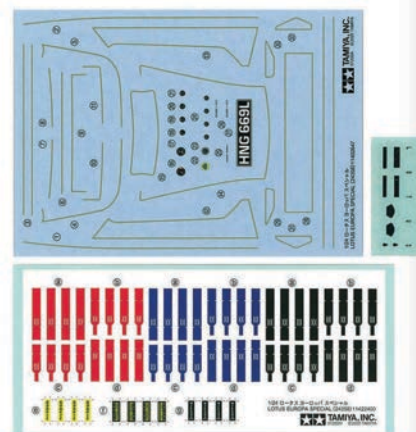


THE LOTUS POSITION

Tamiya have re-launched the lovely little 1:24 kit of the Lotus Europa Special, originally issued back in 1999. This time it comes with photo-etched parts for the seat belt buckles plus fabric-stickers for the harness straps in red, blue, and black. The front radiator grille, brake disc faces, engine bonnet mesh and more are reproduced with photo-etched metal parts. It's a wonderful model and we will be bringing you blow-by-blow article on the kit soon. ●

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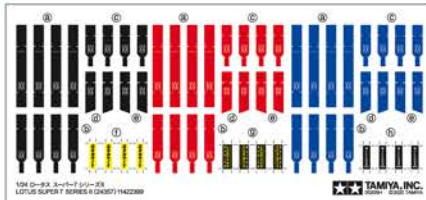
1/24
SCALE

Kit contains parts for one model.

One For the Ages

1/24 Sports Car Series Lotus Super 7 Series II (Item 24357)

With advances in technology have come bigger and bulkier sports cars, but one design has long bucked the trend. Its story started with the Lotus 7, which was a design that at heart was centered around simplicity and lightness; remarkably, production of the 7 continues today with minimal alterations to its successful design. This plastic model captures the Lotus Super 7 car that was part of the 1960 debut Series II, and was fitted with a high performance engine. The ergonomic long nose, short deck 2-seater form is recreated in style, with realistic depictions of the spartan cockpit and rather unique front and rear suspension setups. Owners can choose whether to assemble the kit as a road car or Clubman racer, and whichever you go for, this classic car is sure to find pride of place in your model collection.



Decals recreate numbers, license plates and more. Stickers for 3 seatbelt types are included.



Metal air funnel parts add further detail to the engine. ★Headlight rims and wheel caps are metal-plated parts.



A removable hood reveals the inline-4 engine with detail such as carburetors, exhaust pipes and transmission.



Can be assembled as a clubman racer with separate windshields and driver's roll bar.

Road car



Decals recreate instrumentation.

Length: 139mm, width: 61mm, height: 41mm.



Length: 168mm.

Lotus' Europa was renowned for world class cornering. The Europa Special appeared in 1972 and arguably represents the car's pinnacle. This model recreates it in style, with metal air funnel parts, realistic depictions of frame and suspension, plus seatbelt components, RS Watanabe wheels and a rear wing.

Lotus Europa Special (Item 24358)

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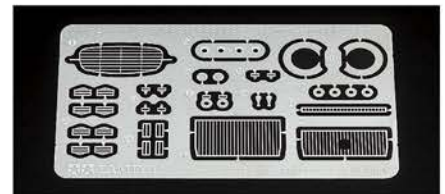


Photo-etched parts for radiator, seatbelt buckles and more give a highly realistic finish.



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