

**LIGHTNING
STRIKES AGAIN**

EDUARD'S LIMITED
EDITION MACCHI C202
FOLGORE IN 1:48


TAMIYA

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DETAILS INSIDE**

Model MAGAZINE

INTERNATIONAL

£4.30 July 2017 ISSUE 261



**LET'S GO
BACK TO THE
CLASSICS!**

TAMIYA'S
VENERABLE '71 PZ.II
IS BROUGHT BACK
TO LIFE



RC IN DETAIL

**TAMIYA 1:10 RC CARS TRANSFORMED
INTO TO FULL-BLOWN SCALE MODELS**

INSIDE...

Shizuoka Hobby Show mini-report, Revell BMW i8,
plus new kits, books and modelling accessories...

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Brewing up a Sturm

1/48 Military Miniature Series German 38cm Assault Mortar Sturm Tiger (Item 32591)

The German armed forces used existing chassis to create a number of specialized vehicles during WWII, but few were as rare as the Tiger I chassis-based Sturm Tiger. Packing a gigantic stubby 38cm caliber mortar, it was intended for use in urban and heavily fortified areas; its 350kg, 1.5-meter missiles were indeed capable of wreaking havoc. Armor up to 150mm thick naturally boosted survivability, but meant that the vehicle weighed in at a considerable 65 tons. 18 Sturm Tigers were produced between August and December 1944, and were deployed in the Warsaw Uprising and defense of the German homeland. Now, the heavy-hitting Sturm Tiger is recreated with superb detail on a compact scale in the 1/48 Military Miniature Series. *Materials for recreating Zimmerit are not included in Item 32591.

Length:133mm
Width:78mm

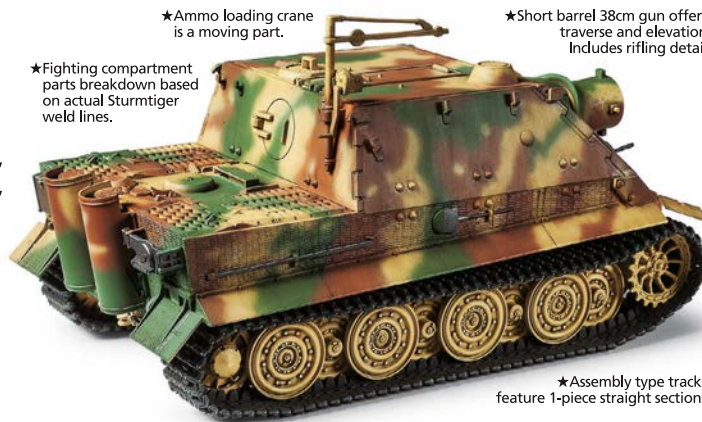


★Includes a realistic standing figure.

★Ammo loading crane is a moving part.

★Short barrel 38cm gun offers traverse and elevation. Includes rifling detail.

★Fighting compartment parts breakdown based on actual Sturm Tiger weld lines.



★Assembly type tracks feature 1-piece straight sections.

GERMAN 38cm ASSAULT MORTAR STURMTIGER

Zimmerit it with confidence!

Recreate Zimmerit anti-magnetic mine coating on your 1/48 scale Sturm Tiger masterpiece with this dedicated sticker sheet! Simply cut out and apply, then paint the model as you normally would, for a highly realistic finish.



Zimmerit Coating Sheet for 1/48 Scale Sturm Tiger (Item 12672)

Outstanding accuracy and variety 《1/48 Military Miniature Series》



German King Tiger "Porsche Turret" (Item 32539)



German Tiger I Late Production (Item 32575)



German Heavy Tank Destroyer Elephant (Item 32589)

●Product may vary from prototype images shown. ●Images show assembled and painted models.

TAMIYA, INC. 3-7 ONDAWARA, SURUGA-KU, SHIZUOKA 422-8610 JAPAN ©2017 TAMIYA Check Tamiya's homepage for the latest releases! www.tamiya.com

The ever-expanding Tamiya 1/48 Military Miniature Series offers a blend of manageable size and superb detail. Why not build some company for your Sturm Tiger with one or more of the many German subjects in the series?

12 LIGHTNING STRIKES AGAIN

Eduard's Macchi C202 Folgore in 1:48

Model MAGAZINE INTERNATIONAL

Issue 261 July 2017

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Contents

4 NEWS DESK

New kit and model product news

8 SHIZUOKA HOBBY SHOW 2017

TMMI reports from the 56th Shizuoka Hobby Show

18 WONDERFUL ELECTRIC

Revell's 1:24 BMW i8 hybrid supercar with Plamo wheels

40 CHIEF OF THE CLAN

Tamiya's classic 1:35 Chieftain Mk.5 in Iranian Army markings

44 NEW RELEASES ACCESSORIES

New and recently issued modelling accessories

48 NEW RELEASES KITS

New full kits, reviewed

52 SWEDISH ODDBALL

Getting the best from Pilot Replica's 1:48 Saab J 21A-3

60 BOOK REVIEWS

New and recent books related to scale modelling

64 CONTACTS

Where to buy the products used and reviewed in TMMI

66 THE EDITOR'S PAGE

The P-34s return!



24 LET'S GO BACK TO THE CLASSICS!

Tamiya's 1971 Pz.II is brought back to life



32 FROM RC TO SCALE REALITY

Tamiya 1:10 RC cars transformed into full-blown scale models



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IN BRIEF...



TAMIYA

- 1:16 Jagdpanther Static-Display
- 1:10 RC Top Force
- 1:10 RC Dual Ridge Black Metallic (TT-02B)
- 1:10 RC Tyrrell P34 Six Wheeler 1976 Japan GP Special Edition
- Cam-Program Robot
- 1:32 Proto-Emperor ZX Premium (Super-II Chassis)
- 1:32 Super Avante RS Asia Challenge 2017 Special (Super-II Chassis)
- 1:32 Mini 4WD 35th Anniversary Festa Jaune L Clear Body Set



BRONCO

- 1:35 Cruiser Tank Mk.II/IIA/CS
- 1:72 DFS230V-6 Light Assault Glider w/ deceleration rocket



PANDA

- 1:35 M1 Abrams MBT

T-MODEL

- 1:72 US Modern M1114 up-armoured HMMWV

TAKOM

- 1:35 FV432 Bulldog



NEW FROM TAMIYA

1:16 M1A2 ABRAMS MBT

New in the static-display range is the M1A2 Abrams MBT. The model will be quick to build and will have working suspension.

www.hobbyco.net



NEW FROM TAMIYA

1:35 Sd.Kfz.166 Sturmpanzer IV 'Brummbär' Late Production

Tamiya's new 1:35 kit features elevation and traverse movements for the main gun, schürzen side armour moulded in separate panels, rubber-rimmed and all-steel road wheels, one-piece tracks, one half and one full body figure. Markings provided for one of two 219th Assault Tank Battalion vehicles. More news and full-build article in TMMI

www.hobbyco.net



NEW FROM TAMIYA

1:35 Wehrmacht Tank Crew Set

This new-tooled set will include four, full-body figures; two examining a map, one scanning the field through binoculars plus an officer surveying the battleground. The pack will also include four half-figures; an officer for use in a tank cupola, a commander signalling his team to move out, a driver peering out of his hatch and a crewman in his hatch. More news soon.

www.hobbyco.net



NEW FROM TAMIYA

1:32 F4U-1D Corsair

Tamiya's third version of the 1:32 Corsair kit takes the form of the F4U-1D, a variant in much demand from modellers. The kit comes with a fully 'blown' canopy with no reinforcing framework, a new propeller with correctly profiled blades for this version, two underbelly pylons for bombs or drop-tanks (both included), underwing rocket racks and rockets, solid cockpit window and markings for one aircraft from VMF-351 or VF-84.

www.hobbyco.net

NEW FROM REVELL

1:2700 IMPERIAL STAR DESTROYER

Revell have a new-tool Star Destroyer on the way, in the tiny scale of 1:2700! Don't be fooled though, the kit is large, measuring 60cm in length. The model has 110 parts and very finely detailed. More news soon.

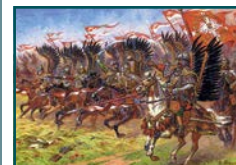
www.revell.de/en



NEW FROM TAMIYA

1:16 Jagdpanther Static-Display

A static-display version of the 1:16 Jagdpanther is on its way, for those who do not wish to have the RC functionality of the 'Full Option' model. Masses of detail and some serious display-cabinet presence. www.hobbyco.net



NEW FROM ZVEZDA

New items from Zvezda include a 1:72 MIG-29 SMT Russian Fighter, 1:35 BA-3 armoured car, 1:35 Kingtiger (Henschel Sd.Kfz.182), 1:100 Maus German WWII Super Heavy Tank, 1:72 German Headquarters WWII (Winter) and 1:72 Polish Winged Hussars 17th Century. More details soon.

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Tamiya President, Mr Masayuki



It is with immense sadness that Tamiya have announced that Company President, Mr Masayuki Tamiya, passed away on 1st May 2017 following a four-year struggle with cancer. He was 59.

Masayuki was a graduate of Tokyo University and joined Tamiya in 1988 following an initial career in finance and banking with Tokai Bank from 1983, (now known as Mitsubishi Tokyo UFJ Bank).

He had been a consumer of Tamiya products as a child, but was not a modeller or enthusiast and so brought a different perspective to the boardroom of Tamiya. His creative input was more focused on the business structure and process and he set about organizing global operations, while expanding the Japanese domestic market and modernizing company systems. In so doing he drove through many of the major developments which define the Tamiya Group today. He became Senior Executive Director of Tamiya in January 1990.

One of his foremost roles in 1992 was to become President of the newly incorporated Tamiya America. This was Tamiya's first venture as a distributor outside of the Japanese market and presented many challenges for Masayuki to work to overcome.

With tremendous foresight he oversaw the purchase of Tamiya's fourteen-acre site in Aliso Viejo, California and the construction of a 7,000 square-metre warehouse, showroom and office facility. Fifteen years later when Tamiya re-structured the US business, this speculative investment had transformed into a property gold mine.

Alongside spearheading Tamiya's US adventure, Masayuki also turned his attention to overseeing the establishment of a new mould making, production and packaging facility. At this time the whole

Tamiya, 1958 - 2017

manufacturing world was heading to China, but Tamiya had a bolder ambition and turned instead to Cebu in the Philippines. Over the years as all the Chinese made products have been subjected to roaring material and labour cost inflation, Tamiya has enjoyed stability and calm with its loyal Philippine workforce.

Founded under Masayuki's leadership in 1994, this enormous undertaking required 40,000 square metres of land on which a total of 24,000 square metres of buildings would be constructed to house every facet of Tamiya's production process from mould making to plastic injection, vacuum plating to body painting and even incorporating expert construction of models. This facility is still today the mainstay of Tamiya's production and one of its greatest assets.

Masayuki also had an eye for product and saw opportunities to expand Tamiya's product line into the diecast market which was booming in the mid 1990s. He took the initiative to establish a premium quality diecast model making operation based in Hong Kong in order to produce the highly acclaimed Tamiya pre-built diecast Collections across a variety of scales and subjects. These were hugely successful and still immensely sought after today.

During all these years Masayuki continued to travel the world and visit Tamiya's partners, building relationships and developing his understanding of the global market for Tamiya products. Masayuki's strong head for business creativity continued throughout his tenure at Tamiya. In 2008 he took a bold step from manufacturer to the uncharted waters of retail.

His vision was to create the ultimate destination for modellers; a place where they could find and buy the entire Tamiya portfolio, beautifully

displayed to exhibition standards in an environment where they could build their Tamiya model under the tutelage of Tamiya experts. A destination where modellers could attend seminars and take part in workshops and even have a locker to store their models.

Masayuki's thinking was that people would use these destinations like a gym, at lunchtimes and after work, as a means of entertainment and relaxation.

This vision developed into the first ground breaking Tamiya Plamodel Factory retail concept in Yokohama. Under M Tamiya's guidance it has expanded over the years with considerable success in Japan, Singapore and Korea.

In 2008, After twenty years' hard work and dedicated service, Masayuki received the ultimate acknowledgment of his contribution to the Tamiya organisation, when Mr S Tamiya handed over to him the esteemed title of 'Shacho'; President. He had earned this position through hard work, creativity and flair. From then until his untimely passing, M Tamiya was responsible for running the entire Tamiya Operations as President of the Company.

Masayuki Tamiya was inquisitive, interested, informed, intelligent, loyal, dedicated to his business and focused on his family. Despite his success and standing he always remained unpretentious and modest and true to his values, just as he had been when he started out.

His achievements and endeavours will continue to inspire and influence all those who worked with him in each day of their business lives.

Mr M Tamiya is survived by his wife and two daughters.

Peter Binger
The Hobby Company



Publisher Mr Alan Harman, myself and everyone at Tamiya Model Magazine would like to offer Mr Masayuki Tamiya's wife and daughters our sincerest condolences at this time of sorrow. My personal memories of Masayuki were of a kind, generous and friendly man who worked extremely hard for the company. He will be greatly missed.

Marcus Nicholls
Editor
Tamiya Model Magazine
International



TMMI reports from Shizuoka City, Japan with news of Tamiya's model unveilings at the 56th Shizuoka Hobby Show

Tamiya had some neat new releases on show this year, perhaps the most eye-catching being the 1:16 M1A2 Abrams MBT display model. When we first heard of this, we assumed it was going to be a 'Full Option' radio controlled model but in fact, it is being released as a static, non-motorised model. We are keeping our fingers crossed that a fully specced-up RC version will emerge at some point!

STURMPANZER IV BRUMMBÄR

In the 1:35 Military Miniatures range, we have the Sd.Kfz.166 Sturmpanzer IV 'Brummbär' Late-Production. This kit is a new release and not a re-issue of the 1976 model, so it will have modern standards of detail and refinement. The kit will come with no less than eight new crew and support figures, all using high-tech moulding technology to make them some of the very best injection-moulded figures available.

To simulate the Brummbär's 'zimmerit' anti-magnetic mine coating, Tamiya will also release a self-adhesive textured zimmerit sheet for the model.

F4U-1D CORSAIR

The big Corsair returns, this time in 'D' form, which is great news for fans of this extraordinary WW2 fighter. The F4U-1D will come with the full 'blown' canopy with no reinforcing strips in the main section, new propeller with correctly profiled blades for the 'D', twin underside pylons for bombs or drop-tanks (both included), tail-wheel fairing, underwing rocket racks and rockets, blanked-out cockpit floor window and markings for one aircraft from VF-84 or VMF-351.

TYRRELL P-34

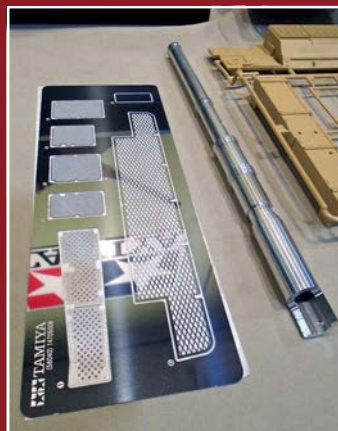
As we mentioned last issue, Tamiya's three kits of the 1977 Tyrrell P-34 F1 car (1:10 RC, plus 1:12 and 1:20 static) are to return, the scale models coming with photo-etched parts. Tamiya also announced the IJN Shimakaze destroyer in 1:700 and a static-display version of the 1:16 Jagdpanther.

More details on all these models coming to TMMI over the next few issues. ●

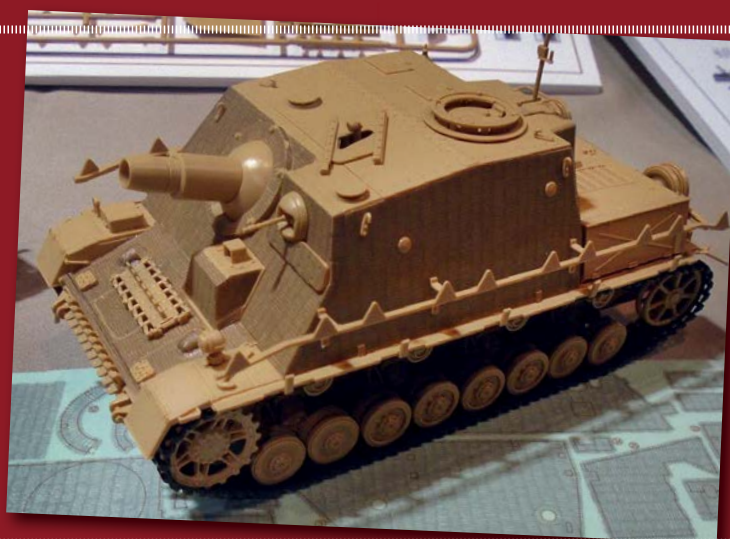


Tamiya's next 1:35 armour release is the Sturmpanzer IV 'Brummbär'. Steel-rimmed roadwheels. The schurzen side-plates are individual parts.





Tamiya's new 1:16 M1A2 Abrams isn't a full-option RC kit, it's a static display model and so the price should be significantly lower. The lateral torsion bars in steel, cast metal swing-arms and modular hull assembly does suggest further developments however, so we'll need to wait and see..



The kit depicts the late-pattern design with the MG bulge on the front plate and parts and can be fitted individually for a varied look



The 1:32 F4U-1D includes a frameless canopy centre-section, double belly pylons with bombs and droptanks, plus eight underwing rockets plus rails. New decals are included

SHOW REPORT

56TH SHIZUOKA HOBBY SHOW, JAPAN 2017



Tamiya's all-new 1:35 Wehrmacht Tank Crew Set features four, full-body figures plus four half-figures, the latter perfect for adding to Tamiya's extensive range of WW2 German AFVs



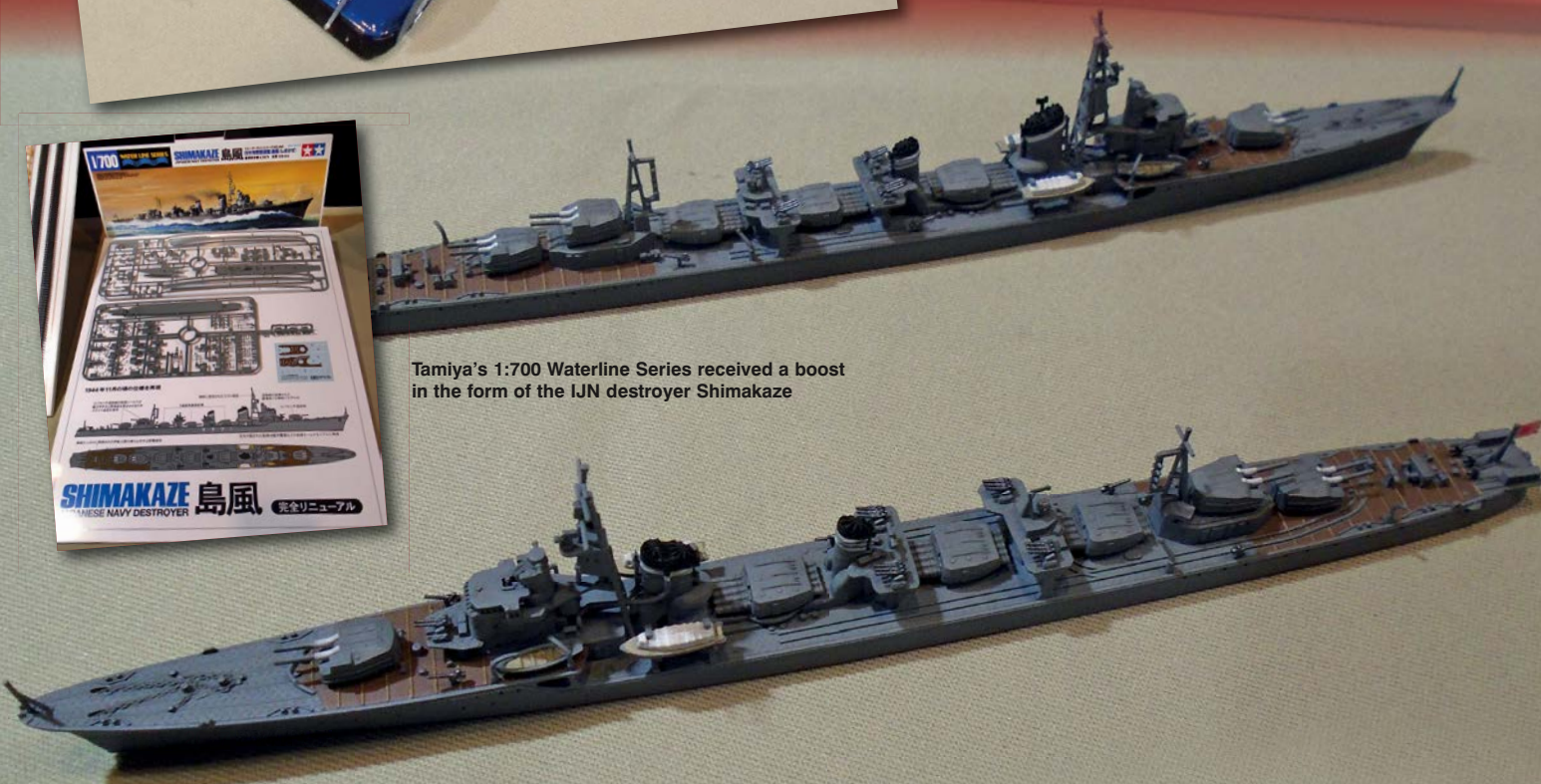
The mighty 1:16 Jagdpanther will now be available as a static display model, for modellers who don't need the RC and electronic gear



The 1:12 (left) and 1:20 (above) Tyrrell P34s are returning, and the 1:10 RC model too! The scale models will come with photo-etched sheets



Tamiya's 1:700 Waterline Series received a boost in the form of the IJN destroyer Shimakaze





The full-sized Sand Scorcher is the highlight of Tamiya HQ's lobby museum, and now it has a matching scooter!



The crazy-looking size-wheel drive Konghead will put a smile on anyone's face - and it's huge!

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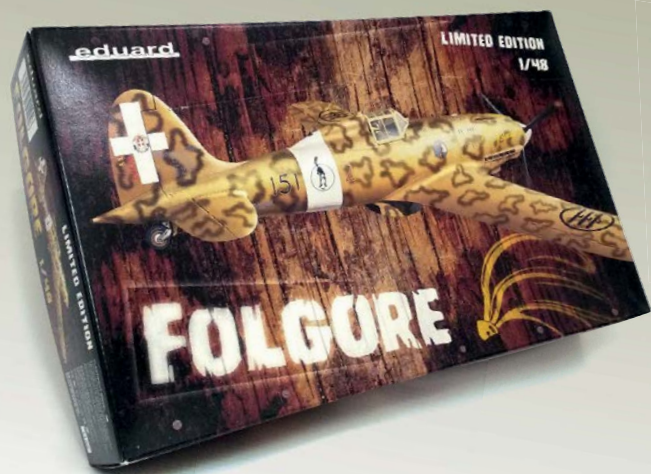
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LIGHTNING STRIKES AGAIN

Paolo Portuesi builds his seventh 1:48 Macchi C202 Folgore (lightning), this time in the form of an Eduard Limited Edition kit

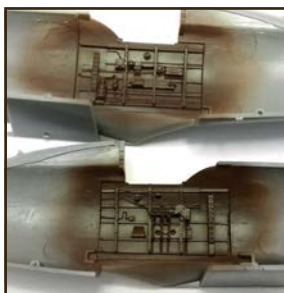
Since the Eighties, Hasegawa has meant three things to me; multiple versions, multimedia parts and large decal sheets. Modifying some sprue or adding new parts enabled them to release many different versions of the same aircraft, something before unseen. Featuring etched or white metal parts enabled the manufacturer to replicate small details to an unprecedented levels of accuracy and strength. When basic national insignia, and a few of codes were the most that I hoped to find in a kit, Hasegawa introduced me to the easy availability

of many tiny stencils and quite well researched alternative markings, something unmatched by most aftermarket producers of the time.

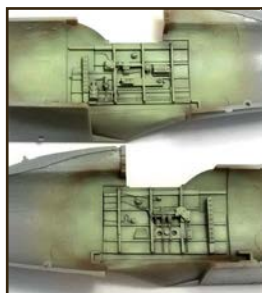
Fast forward thirty years and in mating some of the best scale models with some high quality resin and etched parts and dropping in the same box a gorgeous decal sheet printed by Cartograf, Eduard has raised to the next level the same approach that made of Hasegawa one of the world leading firm in scale modelling. This limited edition Macchi 202 makes no exception.



Hasegawa's 1:48 Macchi 202 was first released over twenty years ago. It comes in the form of a clear sprue plus four small sprues and three main sprues in grey polystyrene. It is an easy build, requiring no more than sixty parts to complete; less than a ten stage process. Looking at the kit parts, the cockpit needs improvement, being far from today standards. The same is true regarding the main wheels, the tail wheel, and many other small parts like the supercharger intake. To spruce this kit up, Eduard supplies a photo-etched sheet and few resin parts. Most of the etched parts are designated to enrich the cockpit, but there are plenty of detailing parts for the exterior, the undercarriage legs and the intakes. Main wheels, two alternative tail wheels and a supercharger intake are supplied in resin. They do look amazing. Last but not least, six different markings, each one in a different camouflage and a lot of quite readable small stencils, are included in a very thin and perfectly registered decal sheet. My choice fell on a yellow-nosed machine deployed in Russia. ▶



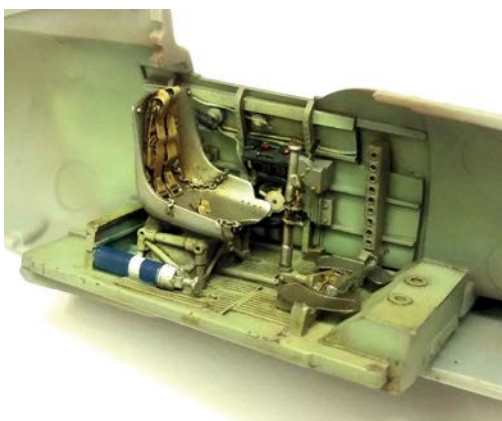
First, an undercoat of Mr Hobby H-406 Brown was applied as a background colour



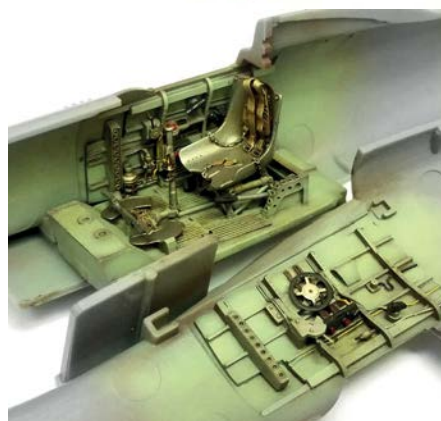
Over the brown, a mixture Mr Hobby H-312 and H-324 (60/40) was applied



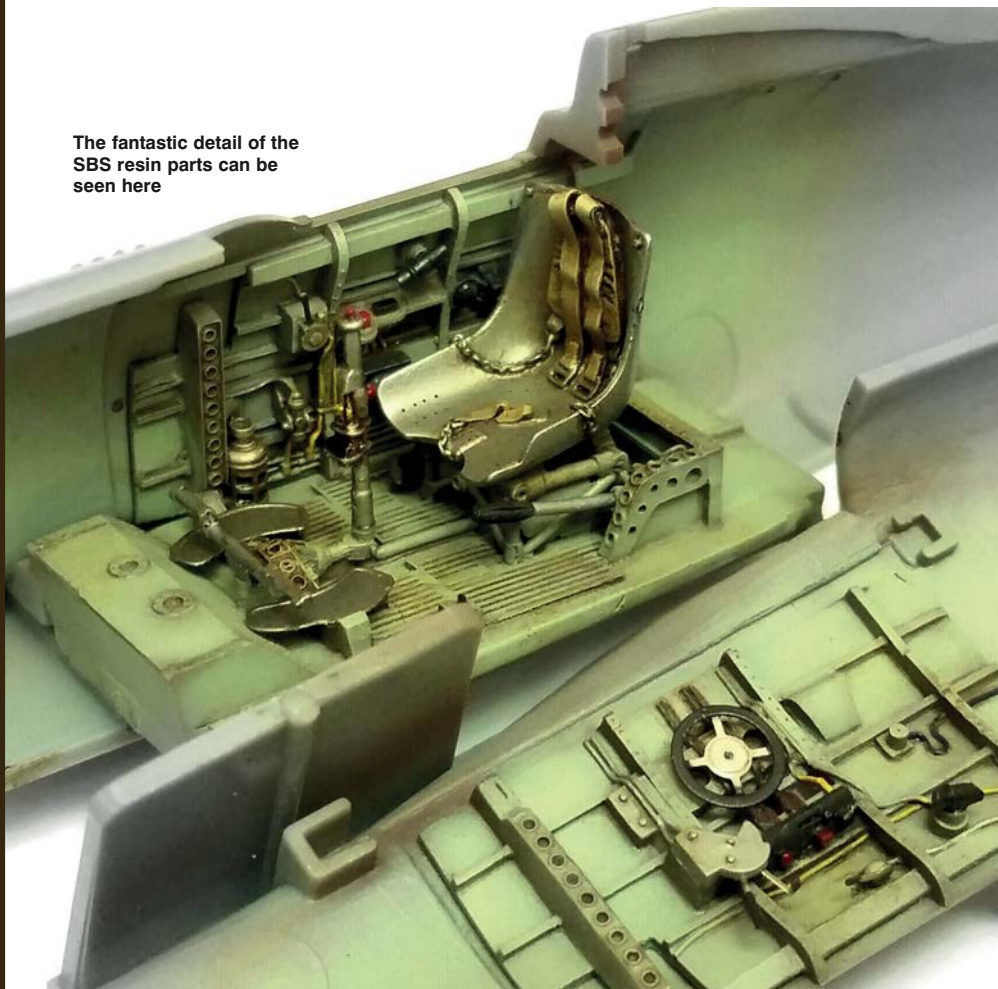
The author chose to install a resin cockpit set from SBS; the results were well worth the effort



For the prominent oxygen tank laying on the cockpit floor, the author chose mix of Tamiya X-3 Royal Blue and XF-2 Flat White in a ratio of 80/20



The fantastic detail of the SBS resin parts can be seen here



STARTING THE BUILD

Once again, the assembly starts in the cockpit, where I faced a challenge. Having turned fifty, my eyesight does not help me much in managing all these very small etched parts supplied by Eduard to detail the cockpit. It was a pity, but I had to give up the etched details and to switch for some by far more comfortable resin parts. Of all the resin cockpits available for this kit, my pick was the relatively new one released by Hungarian producer SBS Model. The resin floor and the sidewalls look every bit as detailed and delicate as the supplied PE. In addition, I fell in love with the seat. The metal chains and the leather buckles are so faithful reproduced that I could not resist from painting the seat right away.

First I sprayed an overall coat of Mr Hobby H-406 Brown. When dry, I very lightly sprayed some Alclad II ALC-116 Semi Matt Aluminium. An oil wash of Burnt Sienna followed. Next step was to brush paint the belts with Mr Hobby H-85 Sail Color and finally to give, only over the belts, a Van Dick Brown oil wash. Given that I was very happy with the way the seat was looking, I turned my attention to the interior using a mix of Mr Hobby H-324 (40%) and H-312 (60%), sprayed in very thin coats to allow for depth and highlights. As usual, dials and switches were picked up in white, red, and yellow. For the quite prominent tank laying on the cockpit floor, I went for a mix of 80% Tamiya X-3 Royal Blue and 20% XF-2 Flat White. After spraying the instrument panel with a very thinned Gunze H-12 Flat Black, my SBS Model cockpit was ready to be installed inside the fuselage.

AIRFRAME ASSEMBLY

The fit of the SBS Model cockpit was one the best ever. Joining the fuselages together was easy with just a little of Tamiya Extra Thin Cement. Joining the upper and lower half of the wings was easily done; the fuselage and wing joint

is quite acceptable for a kit engineered more than twenty years ago. However, before gluing wing and fuselage together, I had to address another weakness of the Hasegawa Folgore, the lack of the engine plumbing that can be seen through the open wheel well. My solution was to use the undercarriage bay released for this kit by Eduard in their 'Brassin' range (648278). I was impressed by the engineering of these tiny parts, they just drop in place after painting.

Another example of high level of detail in this Eduard edition is the finesse of the etched parts for the oil radiator/air intake. As in the case of the cockpit and of the wheel well, also the oil radiator intake is barely visible. However, I always believed that adding as much detail is possible is what our hobby is for. Eduard Brassin came once again to the rescue for the exhausts stacks (648281). The depth of the pipes is quite adequate and the welds are beautifully rendered. In addition, the fit is good. Another amazing piece of resin to be glued to the fuselage is the compressor air intake included by Eduard in this kit. My yellow nosed aircraft needed the filtered one. Not surprisingly, this resin part matched the fuselage side without any problem.

After taking the usual care in checking the wings' dihedral, a few layers of Tamiya Extra Thin Cement were enough to weld together fuselage and wings. Given that no significant filling and sanding was required, after the usual wash needed to remove the grease from my fingers, it was time for a primer. I do not always spray a primer on my models, but this time I felt it was necessary, to check for imperfections and to unify the resin and styrene parts. So, I sprayed a quite thin mix of Mr Hobby H-53 Neutral Grey.

PAINTING THE FOLGORE

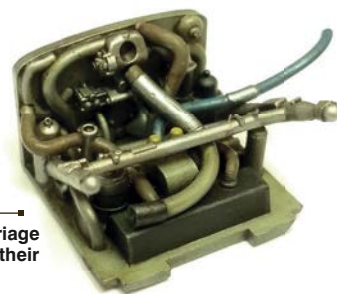
As usual, before applying any camouflage colour, I masked off the cockpit and the open wheel well and painted the undercarriage

Eduard provide the supercharger intake in resin

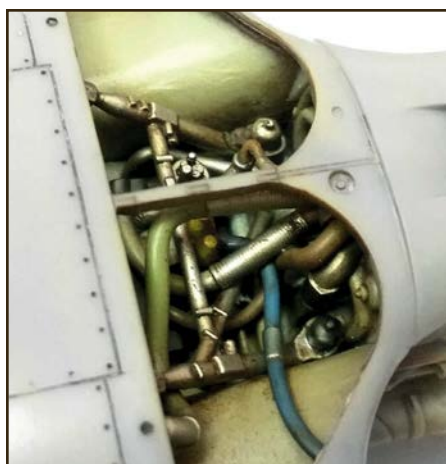


The author had to address a limitation of the Hasegawa kit, the lack of 'plumbing' that can be seen through the open undercarriage bay

The solution was to use the undercarriage bay released for this kit by Eduard in their 'Brassin' range (648278)

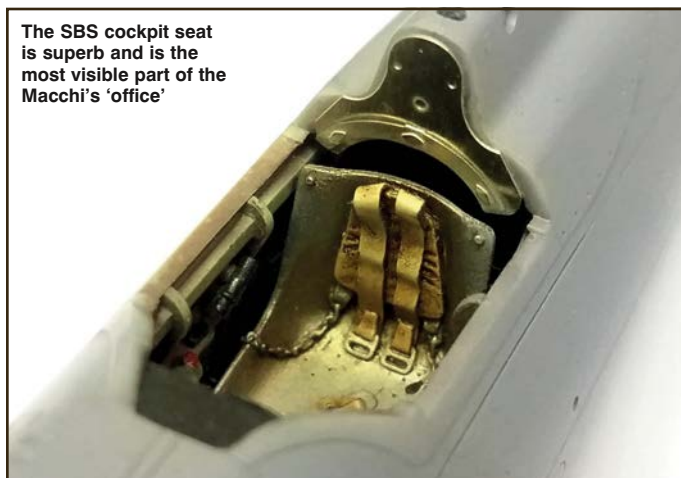


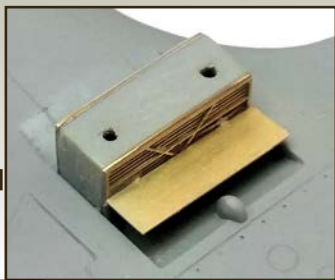
The engineering of these tiny parts is impressive. They just drop in place after having been painted



The tangle of pipework fills the void in the UC bay and looks excellent

The SBS cockpit seat is superb and is the most visible part of the Macchi's 'office'





The oil cooler is a little gem in Eduard brass but is largely hidden once the cover is installed. But we know it's 'there'



The upper surfaces were sprayed with Mr Hobby H-17 Brown as an undercoat over which a mixture of Mr Hobby H-79 and H-310 (30/70) was applied



The author applied a layer of un-diluted burnt-umber oil paint, over the entire airframe, working it into the recessed details



With the brown oil paint wiped off, an overall staining effect is created, leaving the panel lines darkened

bays. In this case I went for the same greenish mix chosen for the cockpit: Mr Hobby H-324 Light Grey (40%) and H-312 Green (60%). In the meantime, each leg and the undercarriage doors received their load of etched detailing parts and were ready to be painted with the same greenish mix. The main and tail tyres created by Eduard for this kit are simply incredible. All tyres

were first painted with Tamiya XF-1 Flat Black, then lightly oversprayed with a variety of shades of grey, and finally oil paint colour-washed with burnt umber and ochre. After masking the undercarriage bays, it was time to paint the camouflage.

I sprayed all the upper surfaces with Mr Hobby H-17 Brown. It is a quite dark colour, ideal to give some depth to the

camouflage. Next step was to spray many thin layers of a mix of Mr Hobby H-79 (30%) and H-310 (70%), allowing for some highlight effects. When all the upper surfaces were properly dry, I washed them all with some un-thinned burned umber oil paint, soon wiped away with a clean cloth. I sprayed the green spots at a very close distance and at a quite high air pressure, using some H-65 thinned to 50%.

In a similar fashion I painted all the lower surfaces with Mr Hobby H-324 Light Grey. With most of the camouflage done, it was time to paint the yellow spinner, the fuselage bands and the white wing triangles. The propeller blades were not painted black as per instructions, but one side Tamiya XF-1 Flat Black and the other side a medium grey mix made of a 90% Mr Hobby H-324 Light



Instead of using decals, Tamiya masking tape was used to blank off the overspray areas



The effect is truly 'painted on' and looks better than decals

Mini Review...

MENG COLOR BY AK INTERACTIVE:
US Aircraft Metal Skin Colors
(MC-812)
ITEM NO.NC9
www.ak-interactive.com

This pack, produced by AK Interactive for Meng Model, comprises six 17ml bottles of acrylic paints, matched for natural-metal finished US aircraft of WW2 (and the Korean War). Included in the box are Silver (MC-502), Aluminium (MC-511), US Olive Drab (MC-298), Interior Green (MC-300) and Rubber Black (MC-202). The metallics and rubber colour are self-explanatory, the olive drab is for the anti-glare panel, the interior yellow for undercarriage bays and the interior green is for the cockpit. Very handy!



FULL BUILD: MILITARY AVIATION

EDUARD 1:48 MACCHI C202 FOLGORE ● KIT NO.8221

◀ Grey and a 10% Tamiya XF-3 Blue. The Macchi 202 Folgore was built by three different companies; Breda, Macchi, and Piaggio. By what is known, all the aircraft produced by Breda had their propellers painted this way.

The canopy fits well. The only worry when it comes to the clear parts of this kit is to mask them with the maximum care, given their small dimensions. Finally, I have to confess that with the passing of time, I have grown quite uneasy in using large decals. I do my best to avoid thick layers of paints and varnish, and large decals, like the national insignia require several layers of gloss clear paint. Masks, in my opinion, are a much better choice. As a consequence, I ended up using only the smaller decals.

CONCLUSION

What are my final considerations? Well, building this kit was an enjoyable experience, even if it was the seventh Hasegawa Macchi 202 I built so far. Eduard's new photo-etched and resin parts boost the quality of an already good kit. Looking at the finished product, I see a level of detail and accuracy that once was typical only for a 1:32 model, and I am very happy! ●

TECHSPEC...

EDUARD 1:48 MACCHI C202 FOLGORE
LIMITED EDITION KIT NO.1132

Materials;

Injection moulded grey and clear polystyrene, resin, photo-etch, waterslide decals

Paints used;

- Mr Hobby; H-413, H-85, H-324, H-312, H-310, H-79, H-65, H-406, H-20,
- Humbrol Enamel; 113, 56, 33
- Alclad II; ALC-116, ALC-106, ALC-312,
- Tamiya Acrylics; X-2, X-3, XF-1

Accessories used;

- Eduard Brassin; undercarriage bay (648278), Exhaust Stacks (648281)
- SBS Resin; Macchi C202 Cockpit set (48017)
- Montex Mask; Macchi C202 (K48191)

Other stuff;

Superscale Set softening and setting solution, Tamiya Extra Thin Liquid Cement

AVAILABILITY;

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



The main undercarriage wheels are new resin items by Eduard and look highly convincing



Two types of tailwheel are provided in this special edition kit from Eduard



The undercarriage bay plumbing was well worth adding. The author gave the airframe undersurfaces a subtle weathering treatment



The side-hinged canopy allows the superb SBS cockpit to be at least partially visible



“Eduard’s new photo-etched and resin parts boost the quality of an already good kit...”





David Hunter builds Revell's 1:24
BMW i8 hybrid supercar, incorporating
Plamoz wheels and finishing with Zero Paints

WONDERFUL ELECTRIC

When I started building this kit, my expectations weren't very good. In the past I've built numerous Revell 1:144 aircraft kits with varying levels of success, most of which needed a lot of thought to get right, so I did expect to put in a lot of work to get this kit to a presentable level. The kit is one of Revell's recent designs (2015) and is a 'skill level 3'. When looking at the various parts it became

obvious that although the front and rear engines were represented, they weren't greatly detailed, however the rest of the car appeared to be adequately detailed. It can be displayed with the doors up in the open position or, like I have done, in the closed position.

BODYWORK

The main bodywork comes in seven sections, the front bumper, the main bodyshell, the rear bumper, the rear upper wings which extend

from the roof line to the rear deck area, and the lower intakes. I was advised a while ago that it's not always best to follow the order of the instructions. I've also found that prior to building any kit that you should do your homework to see what problems/issues other builders have had. One of the issues I found was that it's best to attach the front bumper to the main bodywork prior to painting. I offered up the front bumper to the bodywork where I found that

on both sides it extended past the bodywork. I then applied some heat to the outer edges of the bumper until they were level with the front wings of the bodywork. I then glued the front bumper into place using Tamiya Extra Thin. I found the bodywork to be in good condition with only two small sink marks at the bottom of both 'A' pillars which required only a small amount of filler to smooth out. I then sanded all of the body using a 600 grit Tamiya Sanding Sponge.

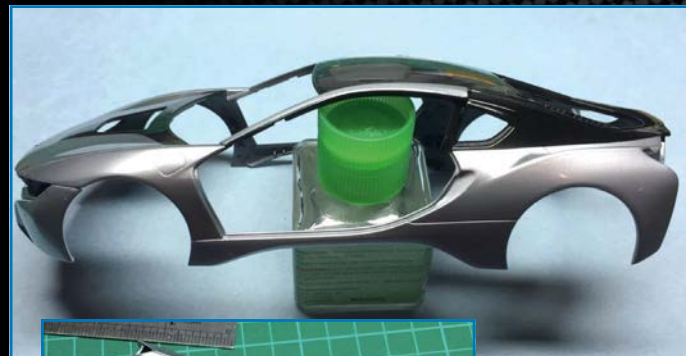


ELECTRIC

PAINTWORK

As this car was for my son he decided the colour, this was a BMW i8 colour namely Ionic Silver from Zero Paints. These paints are really easy to use and give a great finish. Using an Iwata Revolution CR First, I gave the bodywork several coats of Zero Paints Light Grey Primer, which gives great coverage. I then let this dry off for several days before sanding it down with a Tamiya 1000 grit sanding sponge. Next, I gave the

bodywork three to four coats of the BMW Ionic Silver. For such a thin paint it also gave great coverage. I left that to dry for several days before I masked the areas I wanted to paint black. For some reason I cannot get on with the Zero Paints Gloss Black, however I have found that I can get a great finish using Zero paints Semi Gloss Black, and once coated in clear you can't notice the difference. So all the areas that I masked off along with the rear panel were then



The colour is Ionic Silver from Zero Paints; a BMW i8 shade



The author decided to apply carbon fibre decalling to the roof, using carbon-fibre effect decal sheets from Scale Motorsport



You can get a great gloss black finish using Zero paints Semi Gloss Black, finishing it with the company's two-part 'Diamond Finish' clear varnish



The rear of the i8 is made up from complex curves and masking up for the various colours requires patience

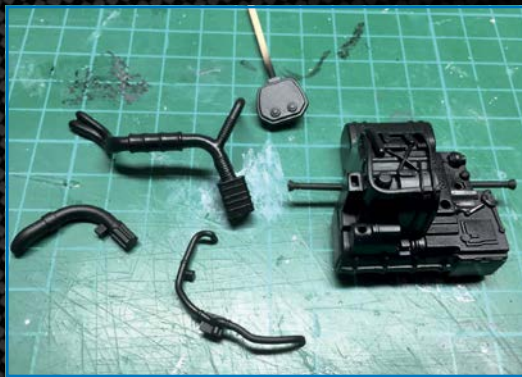


Even the wing mirrors received the carbon-fibre decal treatment



FULL BUILD: AUTOMOTIVE MODELLING

REVELL 1:24 BMW i8 • KIT NO.07008



Both of the model's engines are rather basic with filling and sanding being required



The author painted the engines/motors with a combination of Tamiya Acrylics and Vallejo Metal Color Acrylics



The chassis is quite well detailed and was painted with Tamiya X-18 Semi Gloss Black



The kit brakes were used, with the addition of Hobby Design disc faces which look a lot more realistic than painted surfaces



Some of the wheels supplied by Revell in their car kits are out of scale in relation to the rest of the car.

Plamoz makes wheels (shown left) as a direct replacement for Revell items, but using the original kit tyres; they are a big improvement

① painted in Zero Paints Semi Gloss Black.

After letting the paintwork dry off for a few days, I applied the various kit decals, and the carbon fibre decals to the roof and front splitter. For the clear coat, I decided for the first time to use a 2K Clear Coat. For this I chose Zero Paints new Diamond Finish two-pack Gloss Clear Coat (2K Urethane). To protect the decals I applied three very fine mist coats before applying three wet coats. As I said this is the first time I've used this clear coat, and I followed the mixing proportions as instructed by Zero Paints.

This gave an excellent coverage and shine. Now you can leave this clear coat as is, however there was a few dust marks. I like to polish the bodywork further to further eliminate dust and other imperfections. After I had let it dry for a week or so, I wet sanded the bodywork using Micro-Mesh cloth sheets. I worked through various grades soaking them in water mixed with everyday dishwashing fluid. The grades were 3200, 4000, 6000, 8000 and 12000. I then polished the bodywork using the three grades of Tamiya Compound Polish, and finally I gave the car a coat of Meguiars Carnaubia Car Polish.

CARBON FIBRE DECALLING

On the i8, the kit decal sheets don't call out for any carbon decals but I decided to apply some carbon fibre decalling to the roof and front splitter. I've had great success using the carbon decal sheets from Scale Motorsport, which I've found reacts well to Microset and Microsol.

I painted the roof black which I've found really helps when using these decals. I decided I wanted the weave of the carbon to go in different directions down the centre of the roof so I marked out the centreline of the roof, I then laid down one side of the decal having cut it so it overlapped the side of the roof panel. I then applied a coat of Microset underneath and on top of the decal and as it was just about conforming with the shape of the side of the roof, using a new sharp blade I

trimmed down the edge of the roof which it cut cleanly. I coated the roof with Microsol, and gently using a wet cotton bud and heat, the decal conformed quite easily with the contours. Once that side was dry, the same process was used for the other side. The same process was used for the front splitter and door mirrors.

CHASSIS/ENGINE UNITS

I noted early on that both of the engines were pretty basic and I really think that they were an afterthought by Revell. The engines required a lot of work to get right, with considerable filling and sanding required. You could argue that these parts won't be seen on the finished model, but there are other kits available where the engines are nicely detailed. I also found that the colour call-outs bore no resemblance to the actual engines of the i8. In the end I painted them with a combination of Tamiya Acrylics and Vallejo Metal Color Acrylics. The chassis for the i8 was pretty well detailed as is. This was painted Tamiya X-18 Semi Gloss Black, with the basic suspension painted in Vallejo Aluminium. The engine and chassis were then given several coats of the new USA spec Pledge Floor Care Finish.

WHEELS/BRAKES

It is well known that some of the wheels supplied by Revell in their car kits are out of scale in relation to the rest of the car. Thankfully a company called Plamoz manufactures wheels designed to be a direct replacement for Revell wheels, using the original kit tyres. I purchased a set of their wheels which are of great quality. In real life they have a polished aluminium effect which required a great deal of work. After the wheels had been primed I applied a coat of Zero Paints Silver. I then applied a coat of Zero paints 2K Clear Coat. After the clear coat had dried, I applied a layer of Tamiya X-18 over the wheels. Once this had dried, using a cotton bud soaked in Vallejo Airbrush Cleaner, I carefully cleaned off the high spots on the wheels, where the silver coat beneath



The BMW i8's interior is very well detailed and as for colouration, it's as wild as your imagination can go!



Flocking was applied to the carpeted areas and it looks far better than a painted surface here. Give it a go! To contrast with the black background colour, the seats were finished in Vallejo Acrylics White Grey, an attractive off-white shade



Here we see the finished cabin 'module' looking very neat and finely detailed. It simply drops onto the chassis, between front and rear engines!



The door cards, centre console and dashboard were painted in a combination of Tamiya X-8 Gloss Black and Vallejo White Grey and they look very slick





“I’ve had great success using the carbon decal sheets from Scale Motorsport, which I’ve found reacts well to Microset and Microsol...”

showed through. I then gave the wheels a final coat of 2K Clear Coat. This was the first time I have used this effect and I’m pleased with the results. For the brakes, I used the kit parts with the addition of the Hobby Design disc covers which offer a more realistic appearance. They were painted in Vallejo Dark Aluminium and the callipers were painted in Tamiya X-18.

INTERIOR

The interior is very nicely detailed. As for the colours, I believe it’s as wild as your imagination can go. Initially I was going to paint it in a rather boring black, however

after doing some research I decided that a white on black interior would be nice. Firstly the interior tub and boot area were painted it in Tamiya X-18. Next up, which again was another first for me, was flocking the floor and rear boot area. For this I painted small sections at a time with Humbrol Gloss Black and then sprinkled flocking material over them. This created a realistic effect and not just the normal painted plastic for the carpet area.

I then tackled the centre console and the steering wheel. The console was painted in a mixture of Tamiya X-8 Gloss Black

and Vallejo White Grey. The kit decals were also applied which were of a very nice quality. For the steering wheel are probably the thinnest decals I’ve ever used, comprising a tiny blue line around the face of the wheel, not the easiest to apply. This decal comes in one round piece, however I found I cut it in two and it fitted easily. All the interior parts were then fitted together using CA glue.

CLEAR PARTS

I have read that a lot of builders use a permanent marker for the black areas round glass areas, however I’ve never found that this

works for me. Instead I like to mask off the areas to be painted black, then spray them in Tamiya Semi Gloss Black. Once the black has dried, I water down some Microscale Krystal Klear, and apply some of this round the edges of the windows. I then lay the windows on the body.

FINAL ASSEMBLY

Final assembly is more or less carried out as per the instructions. I glued the doors in the closed position to eliminate the possibility of any future damage to the doors or car. When it came to fitting the body to the chassis, I was pleasantly surprised that this just



clicked into place with no issues whatsoever. The only problem that occurred during assembly was with the door mirrors, which required a lot of cutting to fit properly.

CONCLUSION

This is a pretty good kit which was fun to build and I didn't need to do as much remedial work as I anticipated, however it is let down in a couple of areas. In today's market there are numerous manufacturers who get the wheel/tyre size in relation to the body correct and in scale, for whatever reason Revell just don't seem to get this right. ●

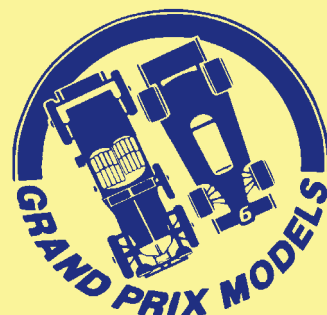
TECHSPEC...

AVAILABILITY;

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

About the author

I'm 47 years of age, married with one son. I'm an ex police officer and retired through ill health after suffering a knee injury. On the instruction of the medical professionals I took up modelling in a serious manner. Although I've built several 1:144 aircraft in the past, its only in the past year or so that I've started using an airbrush etc. I've now built three 1:12 motorcycles and this is the 4th 1:24 scale car I've built.



www.grandprixmodels.com



Bugatti T38 Tourer 'Compton of Hillingdon'
1:43 resin & metal kit by ABC Brianza



Oldsmobile 88 Carrera Panamericana 1952 Taruffi
1:43 resin & metal kit by Tron



Lancia D20 Le Mans 1953
1:24 resin & metal kit by Profil 24



Ferrari 158/85 Canada 1985
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FULL BUILD: MILITARY VEHICLE

TAMIYA 1:35 PANZERKAMPFWAGEN II AUSF.F/G KIT NO.35009 KIT NO.8221

LET'S GO BACK '1

John Bonanni brings Tamiya's venerable 1971 Pz.II back from the grave, giving it a worn and winterised look



TO THE CLASSICS

Tamiya's first Pz.II was released forty-six years ago and has been a popular model for beginners who enter the hobby. Its small part count and simple fit makes a quick and fun build. I first started building this Pz.II in 2007 and after not looking how I wanted it to it quickly became a painting and weathering testbed. I

experimented with different whitewashing techniques and after sometime it soon became a permanent fixture on the bench collecting dust!

Fast forward ten years and I found myself motivated to finish the derelict 'shelf queen'. By this time, details had broken off and went missing. Fortunately, I bought a ▶



FULL BUILD: MILITARY VEHICLE

TAMIYA 1:35 PANZERKAMPFWAGEN II AUSF.F/G KIT NO.35009 KIT NO.8221



1 started Dragon Marder II at a local show for a few dollars, which would serve as a donor. The first step to bring the Pz.II back to the finishing line was to strip the built up layers of paint from years of being a test bed. Fortunately, I had used acrylic paints almost exclusively so Windex and glass cleaner easily removed a bulk of the paint. The stubborn areas were treated with denatured alcohol.

UPGRADES AND DETAILS

After nearly all of the old paint had been stripped it was time to evaluate what parts needed replacing. The suspension was the first major sub-assembly tackled by replacing all of the road wheels, idlers, sprockets

and tracks. The new Dragon wheels would not fit onto the torsion bar axle arms, so they were removed. The road wheels were attached directly to the torsion bar, without axle arm, using cyanoacrylate (CA) glue. Next, I created a simple jig out of strip styrene to assemble the individual link Magic Tracks. Using Tamiya Extra Thin Liquid Cement, the track runs were assembled for each side. After letting the assemblies dry for ten minutes, the tracks were wrapped around the suspension components and bonded using Extra Thin. I started on the upper hull by boxing in the large open sponson areas with sheet styrene. The open grills were also covered in

brass mesh from underneath the top deck. Before mating the upper and lower hulls I primed the lower hull in black primer. Next, the hull sections were mated using liquid cement and CA.

Again, I turned to the Dragon donor kit for missing details. On the rear plate, a convoy light and reflector were attached using liquid cement. Other details added included tow hooks, muffler screen, and spare track link bracket. Next, the turret was finished off by drilling out the main cannon and coaxial MG34.

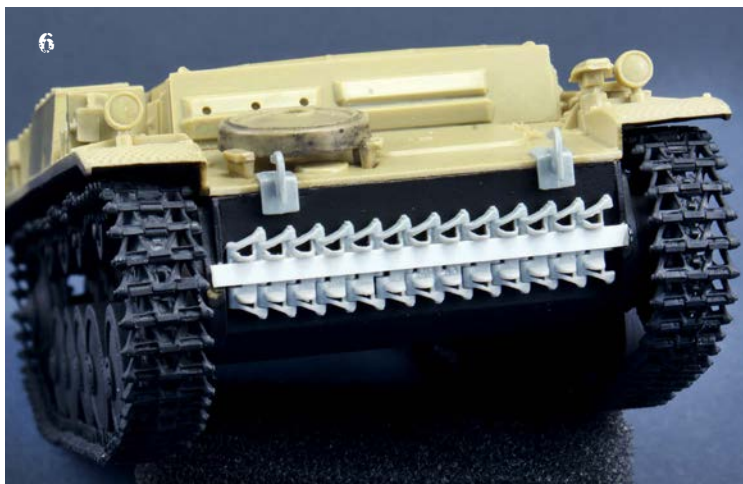
PANZER GREY

The base coat of panzer grey was a mix of Tamiya Flat Blue (XF-8), German Grey (XF-63), and Sky Grey

2: A modern Dragon Marder II serves as a perfect donor for parts. I picked up this started kit for £2 at a local model show. Most of the kit had been started, but the parts I needed were left untouched 3: Glass cleaner was able to remove nearly all of the old paint with exception to a few areas, which were treated with denatured alcohol 4: The Dragon suspension components fit without issues. The only modification required was to remove the wheel mounting shaft from the torsion bar 5: Generic photo-etch mesh was installed under the engine grates



1: After years of neglect the Pz.II is missing a variety of pieces and needs to be completely stripped



6: A strip of styrene was added to represent the field applied spare track mounting bracket. The more detailed Dragon towing hooks replaced the older Tamiya option **7:** Other details missing from the kit included the rear convoy light, reflector and exhaust shield. Two pieces of photo-etch strip and bolts attached the modified shield taken from the modern Tamiya Pz.II **8:** The black primer served two purposes: reveal any construction errors and provide a dark base coat to cover all recessed areas **9:** A combination of Tamiya acrylics were used for the German Grey base coat **10:** To increase the models blue hue it received a thin coat of Tamiya Medium Blue **11:** Details were picked out using water based acrylics, which are much better for brush painting as opposed to Tamiya acrylics **12:** The gun barrels and front lights were drilled out to add realism; MV lenses will be added later **13:** At this point the details look exaggerated, but throughout the weathering process they will be toned down and depth to the finish **14:** Waterslide decals printed by TechMod were added using Micro Sol and Set, which allowed them to form around the turret details **15:** Two coats of hairspray are to ensure the entire surface is covered from every angle **16:** The first coat of white paint looks very faint, but don't worry it's only the first step of many for a whitewash finish **17:** Immediately after the white was airbrushed on a brush dampened with water was used to begin the removal process **18:** Washable white helped create the subtle worn finish; it dries dead flat and can be brushed on as well

(XF-19). I prefer to use Sky Grey to lighten the base colour because it doesn't create a frosted look when using white. After applying a light filter of Medium Blue (XF-18), I began picking out the details with Vallejo Field Blue (70964) to add contrast. The tools were also painted at this time using a variety of Vallejo and LifeColor acrylics to replicate steel, wood, and Bakelite. Prior to decalling the entire model received several light coats of Tamiya Clear (X-22), which protects the paint from reacting to the decal setting solutions.

The decals used were from the book Pz.Kpfw II Vol. 1 by Wydawnictwo, which reflected a vehicle from 9th Company, 24th Panzer Regiment, 24th Panzer Division. The vehicle was employed during the Stalingrad Campaign in November 1942. The decals were placed for a few minutes in warm water allowing them to easily slide off onto the model and fixed using Micro Sol and

Micro Set solutions. After the decals set overnight the entire model received another coat of Clear in preparation for the weathering steps.

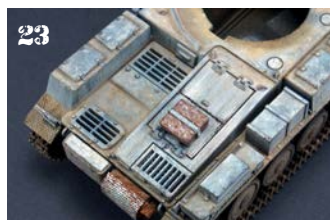
WHITEWASH WAYS

Numerous techniques have been developed to achieve a whitewashed finish. Through experimenting on various projects I've found a combination of all of them ▶



FULL BUILD: MILITARY VEHICLE

TAMIYA 1:35 PANZERKAMPFWAGEN II AUSF.F/G KIT NO.35009 KIT NO.8221



produce the best results. Each technique achieves a different effect and when put all together can create an attractive finish.

I began my whitewash

finish with two coats of extra-firm hairspray. The hairspray dries quickly and within thirty minutes I applied a very light coat of AMMO White (047).

This finish at this point looked very frosty and retained a lot of the base colour hues.

Next, I used a brush dampened with water to remove the layer of white paint. I worked section by section in order to control the removal process. The stark chips on the side of the turret were created by brushing the entire panel with water, waiting a few minutes, and then using a stiffer brush to remove the white paint. Conversely, on the back deck the slightly worn finish was achieved by using a motion similar to drybrushing with a dampened soft bristle brush. The second step in the whitewash finish was airbrushing AMMO

Washable White (024) over most of the model. Immediately after applying the Washable White I began manipulating the finish. Vertical surfaces were treated using a brush, dampened with water, drawn in a streaking motion while the horizontal surfaces were stumped. Washable White is an extremely forgiving paint and can be layered without causing surface texture issues. The faster water is applied to the paint the more it can be manipulated. It can also be brushed on. To increase the intensity of the white I turned to oil paints. For white finishes I prefer

MODELSPEC...

Tamiya 1:35 German PanzerKampfWagen II Ausf.F/G Kit No.35009

Accessories used:

1:35 Dragon Marder II (Donor) No. 6262
MV lenses

Tools and materials used:

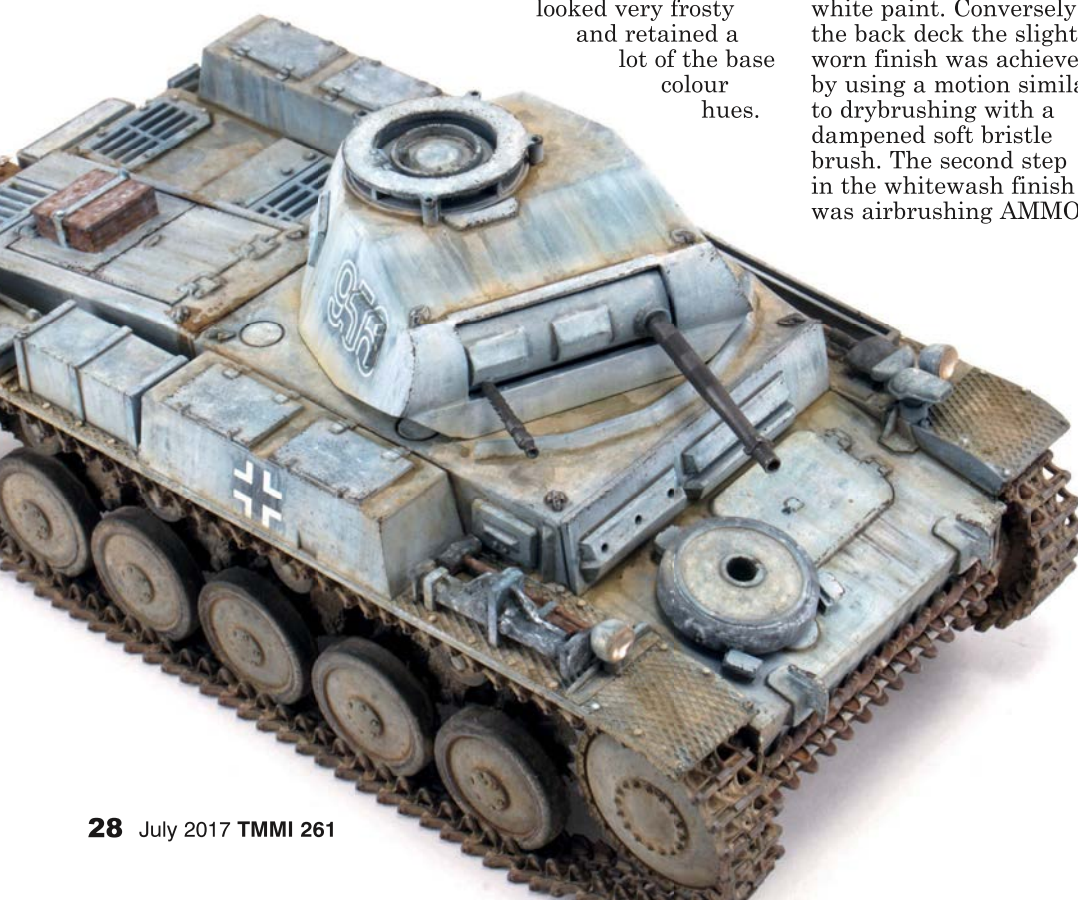
Tamiya Extra Thin Liquid Cement, Masking Tape
Evergreen Plastic Strip
Photo-etch Mesh
Iwata HP-C Airbrush

Paints and finishing products:

AMMO Acrylic Colors – Rubber & Tires, Washable White, White
AMMO Enamels; Wet Effects
AK Enamels; Earth Effects, Dark Mud, Fresh Mud, Engine Oil
AK Pigments; European Earth, Gun Metal
MiG Productions Pigments; Black Smoke
Winsor & Newton Oil Paints; Titanium White, Mars Black
Tamiya Acrylics; Buff, Flat Blue, Medium Blue, Sky Grey, German Grey
Tamiya; X-20A Thinner
Vallejo Texture; Dark Earth
LifeColor Acrylics; Burned Rust, Corroded Rust, Streaking Rust
Humbrol Enamel Thinner
Wilder; Deep Shadow Wash

Rating

+ Still holds up well compared to modern kits
- Very basic vinyl tracks





19: Titanium white oil paint increased the colour intensity and further blended the worn areas
20: Washes are a very important step in modelling, on this project I used Wilder's Deep Shadow Wash straight from the bottle. Clean up was easy with the use of Humbrol thinner 21: The first layer of dust was added by airbrushing a thin coat of Buff on the horizontal surfaces 22: Earth pigments were added dry by tapping a loaded brush over the models surface 23: A pipette filled with Humbrol thinner fixed the pigment. Once dry, an old brush blended the pigments removing clumps and creating a dusty surface 24: The same process used for applying pigments to the hull was used on the suspension 25: Dark washes and speckling increased the randomness of the muddy finish, and graphite pencil was used to polish the rims 26: Thick mud was created by first stippling on Vallejo Dark Earth Texture followed by several layers of pigments and enamel effects 27: Damp areas around the hull and vertical streaks add interest and break up the flat finish 28: The distinctive two bands present on the PzII's main armament were easy to replicate by masking the bands and burnishing the surface with gun metal pigment

to use Winsor & Newton Titanium White. I began by adding dots of oil paints which were blended using Humbrol Thinner.

DOWN AND DIRTY

After completing the whitewash I picked out the details by applying a dark pin wash. Next, Buff (XF-57) was selectively airbrushed onto horizontal surfaces to create a foundation for pigments. The foundation was further expanded using Humbrol Khaki Drill Matt (72), which was brushed on and blended similar to the Titanium White. The model was set aside to dry overnight before adding pigments.

Various earth tone pigments were added straight from the bottle and then fixed using Humbrol thinner. Once dry, an old brush was used to blend the clumps of pigments. The lower hull and tracks received the same treatment. Continuing on the lower hull, I applied darker washes to the wheels, sprockets, and idlers. Next, I speckled multiple earth tones to create a layer effect. Lastly,

gun metal pigment and a graphite pencil highlighted the polished metal sections.

Last additions to the finish were gloss effects to represent damp areas and oil stains. Damp areas were created using AMMO Wet Effects. By diluting the solution, the glossy finish can be changed to more of a satin appearance. I mixed Winsor & Newton Mars Black to more colour to AK Oil Effects for split oil stains.

FINAL THOUGHTS

This was a fun project through and through, and a nice departure from the high tech kits released today. It brought me back to the basics of modelling. Despite its age, the Tamiya option still holds up well against modern counterparts. The only area that requires an upgrade would be replacing the single piece vinyl tracks. With a few extra details added this kit can be a fun weekend slammer build. So, what classic is up next? I'm thinking the Brumbär (good timing John, there's a new-tool Brumbär on the way from Tamiya! Ed). ●

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CB35075 1:35 - 'Rheintochter' German R-3p Surface-to-Air Missile £32.99



CB35095 1:35 - Sd.Kfz. 247 Ausf. A German Armoured Command Car £37.99



CB35105 1:35 - Skoda LT Vz35 & R-2 Tank 2in1 (Eastern European Axis forces) £37.99



CB35119 1:35 - Sturmgeschütz III E Sd.Kfz. 142/1 (Eastern Front 1942) £37.99



GB7008 1:72 - DFS230B-1 Light Assault Glider £20.99

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KIT PREVIEW

REVOSYS 1:35 PZ.KPFW.VI AUSF.C/B 2-IN-1 VK36.01 ● KIT NO.RS-3001



Revosys sat on this release for some time, but was it worth waiting for?

IT'S A TIGER, TOO!

This kit was announced, or at least rumoured, a few years ago, but then slipped back into relative obscurity. It has now come to fruition however, in the form of an extremely detailed and impressively complex kit. The subject is a fascinating one, being one of the prototypes for the war's most famous tank, the Tiger I. We can see hints of the final design in the VK36.01; the interleaved roadwheels, frontal hull shape and glacis plate, although the familiar upper-hull overhangs are not there yet, the vehicle having conventional track guards. The turret resembles an over-size Pz.IV design instead of the familiar horseshoe-shaped item of the Tiger I.

It makes for an appealing model kit and what a kit it is. Apart from an engine, the interior is fully detailed from the driver's station to the engine bay's forward bulkhead. The driving compartment seats fit onto a section of suspension torsion bars and ribs, neatly moulded as one piece (G2). There is a similar part (G3) that one might assume was intended for the section of floor in the fighting compartment,

but it is not shown in the instructions and when test-fitted, is clearly an alternative part for the same area; another version on the way perhaps?

The massive gearbox/transmission is well detailed on all surfaces and the radio sets that sit atop this area come with photo-etched brass framework, far superior to moulded-in frames. A little electrical cabling (using Plus Model lead wire) and the comms gear will look fantastic.

Either the 'C', 'B' or 'F' type vehicle can be built from this kit, the main differences appearing to be the exhaust layout on the rear hull plate, engine deck grille design, the tool layout on the track guards and the main armament. The different versions' guns and exhausts are clearly marked up, but the instructions are not clear in showing which tool positions are appropriate for each variant, so some research will be needed here. Otherwise the instructions appear well drawn and easy to follow. The parts breakdown is closer to that of a Dragon or AFV Club kit here, with many tiny mouldings that require accurate trimming

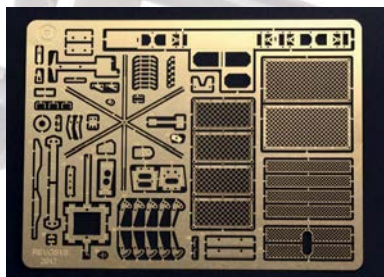
and placement, so to coin that age-old phrase, spend a good few hours reading through the instructions before starting, especially pertinent here.

As with the hull, the turret interior is packed with detail; no surface has been ignored. The commander's cupola (in fact, a choice of two types) are a real gems, both coming with clear-moulded vision blocks, multi-layer construction and photo-etched brass lock handles.

The tracks are of the individual link, articulated type and they assemble on jigs, included on the main sprues. The links are beautifully detailed but the instructions aren't very helpful here, so some dry-fitting plus trial and error is recommended before committing to liquid cement. There's lots more to say about this kit, but not enough space. Suffice to say, it is very highly detailed, almost flawlessly moulded and with some attractive features. It seems it was worth the wait! ●

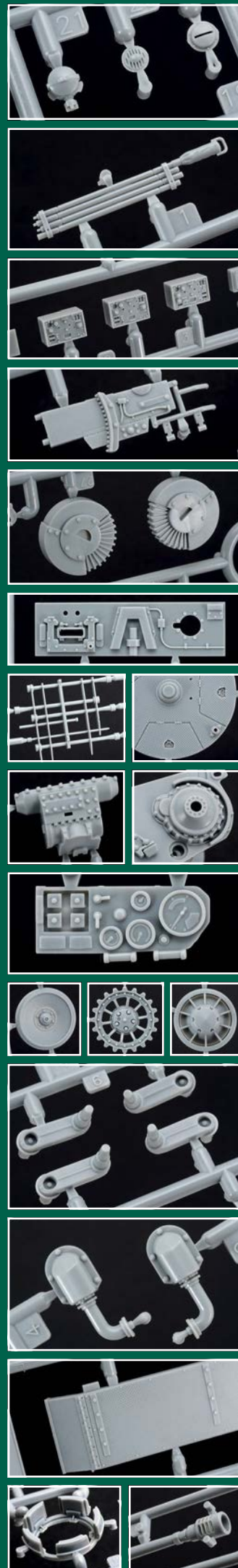
AVAILABILITY;

This Revosys model is widely available from good model shops and online



A useful PE fret is supplied, providing engine screens, radio framing and star aerial, plus other small details

The tracks are individual, articulated links



Bf 110F

1/48



ProfiPACK
edition

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RECOMMENDED:

- 49833 Bf 110F (PE-Set)
- 49095 Seatbelts Luftwaffe WWII fighters STEEL (PE-Set)
- 48567 Bf 110 workshop ladder (PE-set)
- 648055 Bf 110 E/F/G main undercarriage wheels (Brassin)
- 648085 MG 15 gun (Brassin)
- 648131 MG 81 gun (Brassin)
- 648135 MG 81Z gun (Brassin)

648131



648055



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Bf 110F-2 W. Nr. 5080, W. Frost, 13.(Z)/JG 5, Kemijärvi, Finland, Winter 1942/ 1943



Bf 110F-2 Oblt. G. Tonne, CO of II./ZG 1, Belgorod, Soviet Union, June 1942



Bf 110F-4 Ofw. R. Kollak, 7./NJG 4, Juvincourt, France, June 1943



Bf 110F-2 Ofw. T. Weissenberger, 6.(Z)/JG 5, Kirkenes, Norway, June 1942



Bf 110F-4 Oblt. M. Bauer, CO of 11./NJG 6, Zilistea, Romania, June 1944

eduard

FROM RC TO SCALE REALITY

UK modeller **Adrian (Kuhfarben)** transforms Tamiya 1:10 RC cars into full-blown scale models. Here, he describes how he does it

Radio control cars aren't exactly known for scale realism. Tanks, trucks and other slow moving vehicles like crawlers certainly, but most cars are intended as sturdy playthings and put fun and reliability front and centre. Tamiya's cars are a little different in that they take a leaf from the company's history book and lean towards accuracy more than most manufacturers. After all, Tamiya's first RC car in 1976 was not much more than a motorised version of the 1:12 Porsche RSR plastic kit. With the boom in the RC drift scene in recent years things have changed, but the same enthusiasm for recreating the details in 1:10 doesn't seem to have extended to race and rally cars.

A few years ago I'd built a few Tamiya RC trucks and being a lifelong petrolhead, my attention soon turned to cars. Initially I thought most of them looked a bit poor; stickers for windows and too high a ride height, but the work of a couple of Tamiyaclub.com members – Victorious Secret and DeeMiller – showed me what was possible in terms of scale looks. With widened stance, roll cages, antennae etc., these looked closer to proper models than RC cars.

Of course for ultimate realism a 1:24 static model is superior, but I like the opportunity for improvement that RC offers, taking something that's compromised by the practicality of needing to be a robust toy and fixing everything that's stopping it from looking like a scale model. If the car will not be a runner then it opens up all kinds of possibilities for additions and changes that would be ruined on the first





FULL BUILD: RC SCALE MODEL CARS

CUSTOMISED TAMIYA 1:10 RC CARS



To ensure a perfect gloss finish without the need for varnish, many popular RC car bodies come as clear, vacuum-formed polycarbonate mouldings that must be painted on the inner surface; the modeller must think (and mask-up) in reverse when doing this!

roll. I find just how much I can transform the car from standard to be more rewarding than constructing something that already has a high level of realism.

Although I don't run any of these cars I have set myself one rule; the model must be a fully functional radio controlled car. For some of these that means just a basic chassis with a standard 540 motor and friction shocks, for others it's a race spec double carbon deck with big bore shocks and a brushless setup.

PAINTING

Some Tamiya RC bodies like the 1:14 truck range, the three-speed pick-up trucks and the early 1:12 cars are made from ABS/polystyrene, but the majority are clear polycarbonate. Of the 1:10 race and rally cars, only a single model – The 2003 release of the Lancia 037 – is ABS, the rest are all polycarb. The reason for this is durability is it's flexible enough to withstand most crashes and as you paint the inside, this prevents the paint flaking off in collisions.

Another benefit is it ensures a glossy finish. It does present a set of challenges though. As the body is one piece, windows and lights must be masked off and any masking has to be done in reverse. It also tends to make them look unrealistically shiny. Paint beneath 1mm of clear plastic at 1:10 scale effectively looks like a 10mm-thick clear coat on a real car.

Normally, any black parts like grilles are also painted on the inside, but as this always produces a gloss finish I tend to paint with semi-gloss black on the outside of the body. The bodies are supplied straight from the mould and require trimming, cutting out the wheel arches etc. I do this using the score and snap method then neaten any edges with sandpaper.

The normal mounting method for RC bodies is to have holes drilled in the body, then posts mounted on the chassis which the body rests on and is secured with metal clips. This clearly detracts from the scale-look so I mount them by resting

the body on shorter posts with magnets to hold it in place. Some bodies have holes for the posts pre-drilled at the factory, usually those supplied as part of a kit. Those which are sold as spare parts tend not to have the holes. Wherever possible I'll try to obtain a body without the holes, but some, like the 2002 Impreza are not available like this.

When painting the body I always back with silver then the body colour again or black, depending on the look I'm going for. Like an undercoat, but in reverse, given the inside is painted. Older cars such as the Porsche 934 will have black interiors but newer ones will be body coloured. I use Tamiya PS spray cans. For plastic parts which are moulded in the correct colour I just clear-coat. This is important for UV stability to stop white parts yellowing. I use Tamiya TS sprays and Tamiya and Revell acrylics.

The interiors with drivers are a moulded tray with separate heads, steering wheel and gear stick.

The floor is an inch or so higher than what would be the real floor of the car to allow room for the electrics. These require the individual sections painting appropriately. I'll either mask off the drivers and spray it black if the drivers need to be white, or for dark colour driver suits I'll paint the whole thing black then the suit colour afterwards. I'm distinctly average at painting the drivers' faces so the only tip I can really give here is don't make the eyes too big.

I'll usually paint exhausts and intercoolers too. The chrome finish these parts are supplied in is fine for a drifter but looks too flashy for a race or rally car. I also paint wheels, sometimes if I can't get them in the proper colour (the white 306 Maxi wheels were grey) or just to look nicer - paint always looks better than coloured plastic, even if it's just clear. TS spray again. Some of the mesh type wheels like the M3 and 911 GT2 have solid sections for strength, I paint these matt black.

PREPARING THE CHASSIS

The most important thing here is wheel fitment. With the exception of the 911 GT2, as standard the wheels always sit too far inside the arches. I correct this with a combination of different thickness metal wheel spacers. Spacing this way reduces the available thread on the axles so I use M4 half nuts which have the nice bonus of looking like the centre lock nuts some race cars have.

Tamiya's entry level TT-01 and TT-02 chassis have no rear toe-in, but anything higher spec has 2-3 degrees of toe-in, which is great for handling but looks unrealistic. Fortunately this is easily corrected as the race spec chassis have masses of adjustment. Toe-in is set by using different widths of suspension mounting blocks so I fit equal sized ones for the blocks ahead and behind the rear axle.



Above and below; RC car interiors with drivers come as moulded trays with separate heads, steering wheel and gear stick

DETAILS

I aim to replace as many stickers – used for details – with actual parts as possible. With the surge in popularity of RC drifting and the ultra realistic bodies

used there, the market for scale accessories has grown enormously and a lot of these parts are very useful when building a race or rally car. This usually means I can get wipers, exhausts,

intercoolers and radiators off the shelf. The Tamiya Touring Car Accessory set (54139) is great for this; it contains an intercooler, brake discs, exhaust and several windscreen wipers. ▶



FULL BUILD: RC SCALE MODEL CARS

CUSTOMISED TAMIYA 1:10 RC CARS

The author makes his roll cages from 4mm, 5mm and 6mm styrene tubing; 6mm for the main hoop and 5mm and 4mm for the other elements



Using real metal mesh in the intakes is one of the most important factors in creating realism

Other times I use parts from different cars, Tamiya's kits vary in scale accuracy. Some have actual plastic accessories, others just stickers. The wiper on the GT2 Porsches and BMW M3 is from the Alfa Romeo 155, and the roof scoops on the Impreza and Golf are from the Suzuki SX4 WRC.

Where the car has vents or open sections I like to cut these out, which I do before painting. For the grilles I fit mesh which is either aluminium or steel sourced from eBay. I paint the whole sheet (20cm x

20cm) semi-gloss black then cut bits off as I need it. To stick the mesh and other parts to the shell I find the best option is hot glue. This dries in seconds and can be removed or things repositioned by heating it up again with a heat gun. It's cheaper than Shoe Goo, dries faster and doesn't have the solvent smell. The mesh is, I think, one of the things that makes the biggest difference. If you look at my 911 GT2s you can see how much better the grille looks on the Vaillant 911 compared to the earlier Jägermeister one.

Other parts I make myself. The exhausts on the Escort and 306 are styrene tube, squashed to an oval shape. The splitters on the M3s are black styrene sheet and the aerials are styrene tubes and rods. It's very basic stuff but it looks good.

The roll cages are made from styrene tubing. I use 4mm, 5mm and 6mm and vary the diameter - 6mm for the main hoop and 5mm and 4mm for the rest. Cars from the 70s have thinner tubing, it got thicker in the 90s (Escort and 306) then thin again recently (Impreza).

Building the cages is quite fiddly and time consuming. I bend the tubing after heating with a heat gun then stick it together with hot glue. If you're careful a spot of glue between two tubes will squeeze out slightly and look like a scale weld once the cage is painted. The red towing eyes are electrical ring connectors painted red and poked through a slot cut into the shell. The 1998 Impreza was a commissioned build and that got an extra level of effort - right down to the washer jets and period correct tax disc. ▶





Roof-mounted antennae add a realistic touch to this Subaru Impreza



The most important factor in getting the car to sit right, is wheel fitment. With the exception of the 911 GT2, standard-fit wheels always sit too far inside the wheel arches. The author corrects this with metal wheel spacers in a combination of different thicknesses.





STICKERS AND VINYL

This is my advantage when building these cars. I'm not the best at painting or styrene fabrication but I'm a graphic designer by trade so I know the software inside out and all the technicalities of cutting my own stickers. In addition to the obvious uses; sponsor logos and lettering, I also use it for the sidewall writing on tyres and window trims. Making window trims has two benefits - firstly you get a neater cut than is possible trying to cut out the supplied ones from the sticker sheet (the sheets on most models aren't pre-cut), but the main reason is they

can be made from matt black vinyl which looks more realistic for older cars with rubber trims. You can see on the 306 the door windows have matt trims but the rear quarter windows are gloss, just like the real car.

Some cars like the Lancer Evo and Lancia Delta came with the interior sets so have stickers for those included. Others like the 306, Xsara and Imprezas I have made them, again from cut vinyl. This can be quite fiddly as the "Sabelt" lettering on the harnesses is only a few mm wide. One recent use is the rear window heater elements. This is a row of 0.3mm strips

(0.5mm on earlier builds) held in alignment with masking tape then stuck to the inside of the window. With the one piece body the panel lines aren't very deep and it's not really possible to scribe them like on a plastic kit, so I use 0.4mm black tape to accent these.

PHOTOGRAPHY

Not part of the build but something I want to touch on is photography. I've seen plenty of amazing cars that have just been snapped on a table full of junk in poor lighting. It's a subject that could (and has) fill a book but I've been doing photography longer than I

have been building these cars so I had all the gear already including lighting. I'll end with a few basic tips:

- Choose a clean background - I use white paper or a black cloth.
- Get down low, recreate the same viewing angle as you'd see a real car from.
- Ensure the whole car is in focus - if the back is blurred this is a real giveaway that it's a model.
- Pose the car - wheels turned is the car equivalent of the muscle flex and shows off the wheel.
- Avoid bright sunshine - you'll just get hot-spots and reflections. Soft light is more flattering. ●





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FULL BUILD: MILITARY VEHICLES
TAMIYA 1:35 BRITISH ARMY CHIEFTAIN MK.5 KIT NO.35068



CHIEF OF THE CLAN

Babak Chalangi builds Tamiya's classic 1:35 Chieftain Mk.5 and finishes it in Iranian Army colours and markings

This is Tamiya's 1:35 Chieftain in Iranian camouflage, which I recently had pleasure of building. There is no question how good Tamiya's Chieftain is some even say if you shake well enough the kit will come out of it fully built. Chieftains in Iran have a long history from their glorious entry to their valuable service during the Iran/Iraq War. When I was building this kit I had the pleasure of meeting with one of the tanks' top commanders who

served in the 1980-88 Iran/Iraq war. Overall this was a great fun to build. As for assembly, the main build was out-of-the-box but I added some stowage and bags around the turret to make it look lived-in. For colour, I mixed Tamiya Acrylics XF-49 Khaki with XF-58 Olive Green and lightened the mixture with XF-2 Flat White to create Iranian greenish-khaki. For weathering, I used paints to create shadows and oil paint to give the work some texture.



FULL BUILD: MILITARY VEHICLES

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



The author mixed Tamiya XF-49 Khaki with XF-58 Olive Green to attain the shade used by the Iranian Army on their armoured vehicles



TECHSPEC...

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



www.creativemodels.co.uk

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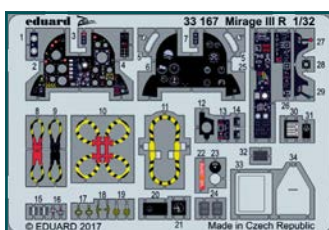


TAMIYA, JAPAN

www.hobbyco.net

This is a two-metre straight vinyl hose for higher-powered airbrush compressors and comes with a Tamiya/Iwata fitting at both ends. It is made to a high standard and will last for years with careful usage.

AIR HOSE FOR HIGH-POWERED COMPRESSORS (12674)



EDUARD, CZECH REPUBLIC

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

Kittyhawk's new 1:48 Sukhoi Su-17M3/M4 comes in for a set of airbrakes this month, adding to the exterior detail of this business-like fighter. Hasegawa have only just released their new 1:72 Emily flying boat but already it gets a full cockpit interior, great enhancing this area. More news next month!

1:200

- HMS Hood - Pt.1 AA guns & rocket launchers (53187) for Trumpeter
- HMS Hood pt. 2 radar (53184) for Trumpeter

1:72

- Spitfire Mk.VIII cockpit (672156) for Eduard
- H8K2 Emily cockpit interior (73592) for Hasegawa

1:48

- Sukhoi Su-17M3/M4 air brakes (48924) for Kittyhawk
- F8E Crusader Exhaust Nozzle (648302) for Hasegawa
- SE.5a Hispano Suiza radiator (648320) for Eduard

1:32

- Dassault Mirage IIIR (33167) for Italeri

EDUARD BRASSIN

1:48

- SE.5a propeller four-blade propeller (648318) for Eduard

1:32

- TER (632103)

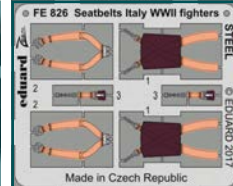
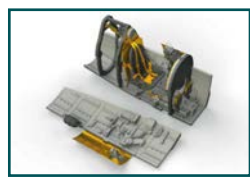
EDUARD ZOOM SETS

1:48

- Italy WWII fighter Seatbelts steel (FE826)

1:32

- Mirage III E/R seatbelts (32909) for Italeri



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

PLUS MODEL, CZECH REPUBLIC

www.creativemodels.co.uk

Plus Model continue to create superb items for dioramic scenes and their latest items include a neat wooden footbridge, tall 'metal' doors for a workshop or factory and an open-fronted 'lean-to' type of shed. The bridge is very well designed with the rickety foot-boards being laser cut from a single piece of wood, a much better prospect than having to attach each board individually. The shed, which is in 1:48, comes with laser-cut panels and resin cartwheel, storage case, 50gl drum and jerrycans in resin. The doors are formed from laser cut/etched card with photo-etched lock and handle. Great stuff and charismatic details for dioramas.

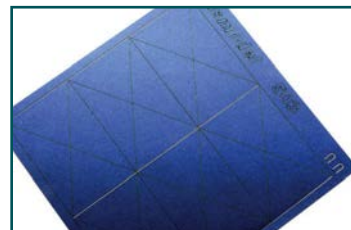
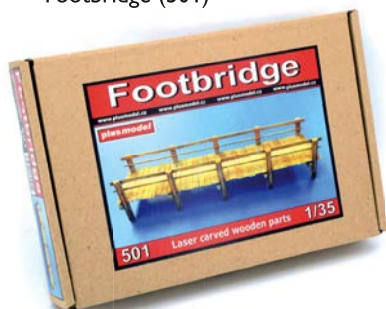
1:48

- Shed (4051)

1:35

- Workshop gate (503)

- Footbridge (501)



XTRADECAL, UK

www.hannants.co.uk

New decals in from Hannants cover a range of subjects for WW2 subjects, including the forthcoming Airfix Supermarine Walrus in 1:48. As always for this range, the markings are printed in perfect registration with rich colours and excellent opacity. Full application and placement instructions are included with each pack. Please note, swastika emblems are provided on these decal sheets where appropriate, but TMMI has obscured them to conform with laws in countries where the magazine is sold.

1:72

Focke-Wulf Fw200 Condor C-2, C-3, C-4, C-8 (X72262)

Messerschmitt Bf109 Stab Pt.2 (X72264)

Luftwaffe JG.5 (X72266)

1:48

Vickers Supermarine Walrus Collection (X48174)

Messerschmitt Bf109 Stab Pt.2 (X48173)

1:32

Messerschmitt Bf109 Stab Pt.2 (X32067)



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STAR DECALS, SWEDEN

www.star-decals.net

Some new decal sheets are in from Star Decal and they have chosen some excellent subjects, with a good range of markings for Iranian armour, Soviet naval infantry AFVs and a range of insignia for WW2 German Befehlspanzer command/control machinery. Excellent quality printing and thin enough to fully conform to a model's surface so long as it has a gloss finish. Decal application fluids will help with this too.

1:72

- British Special Shermans in Normandy and France: BARV, Crab, Crocodile (72-A1011)
- Befehlspanzer Bef.Pz.Kpfw IV Ausf. F/G/H, Pz.Beob.Wg IV Ausf.J (72-A1012)
- Befehlspanzer Bef.Pz.Kpfw Panther Ausf.D/A/G (72-A1013)

1:35

- US Special Shermans M4, M4A1 w/T1E3 mine exploder (35-C1049)
- US M4A3E8 Easy Eight 6th Armored Division 15th, 68th TkBn (35-C1048)
- US Battle of the Bulge 6th Armored Division Sherman tanks (35-C1047)
- US 1st Armored Division Pt.1 North Africa '42-43 M4A1 Sherman (35-C1045)
- US 1st Armored Division Pt.2 North Africa '42-43 M3A1 Stuart, M4 Sherman (35-C1046)
- Befehlspanzer Bef.Pz.Kpfw Panther Ausf.D/A (35-C1061)
- Befehlspanzer Bef.Pz.Kpfw Panther Ausf.G (35-C1062)
- Befehlspanzer Bef.Pz.Kpfw IV Ausf. F/G/H, Pz.Beob.Wg IV Ausf.J (35-C1060)
- StuG.III Ausf.G Ostfront 1943-45 mixed units (35-C1059)
- Courland Estonia Tigers and halftracks 1944-45 (35-C1058)
- Israeli AFV M7 Priest 105mm HMC Late Version (35-C1057)
- Soviet and Russian Naval Infantry 1: T-54B, T-55A, T-55AM (35-C1054)
- Soviet and Russian Naval Infantry 2: BTR-60PB, BTR-70, BRDM-2, BRDM-2 Konkurs, PTS-M (35-C1055)
- Soviet and Russian Naval Infantry 3: fire support vehicles 2S9, Anona, 2S23 Nona SVK, 2S1 122mm howitzer, MT-LB 6MB, MT-LB ZSU-23, SA-13 Gopher (35-C1056)
- War in Caucasus Part.1 Georgian and Abkhazian AFVs in the 1990s ZSU-23-4, BMP-1, BMP-2, MT-LB (35-C1053)
- Iranian tanks and AFVs 1: Iranian Army in the Iran/Iraq War M60A1 Patton, Chieftain Mk.5, M107 175mm SP gun, BTR-50PK, ZSU-23-4M, M113A1, M577A1 (35-C1050)
- Iranian tanks and AFVs 2: IRGC Iranian Revolutionary Guard Corps ZSU-23-4M Shilka, BMP-1, Type 59 MBT, T-55 (Polish), T-72M, BRDM-2 (35-C1052)
- Iranian tanks and AFVs 3: NLA National Liberation Army of Iran (Peoples Mujahedin of Iran) Chieftain Mk.5, MT-LB, BMP-1, T-55, M577A1 (35-C1052)

Please note, swastika emblems are provided on these decal sheets where appropriate, but TMMI has obscured them to conform with laws in countries where the magazine is sold.



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

AERO BONUS, AIRES, CZECH REPUBLIC

www.hannants.co.uk

We have been treated to some superb pilot figures in Aires' 'Aero Bonus' line for some time now and here are the latest, covering the WW2 period and up to the Vietnam War. All are cast in grey resin and come with individual arms and heads. Excellent detail and naturalistic animation are plus points.

1:72

- German Luftwaffe pilot WWII with life jacket (720 021)
- Russian Pilot WWII (720 014)

1:48

- Soviet woman pilot WWII with parachute (480 157)
- USAAF fighter pilot WWII 8th Air Force European battlefields (480 140)
- Royal Australian Air Force fighter pilot WWII (480 146)
- Soviet fighter pilot WWII with seat for I-153 (480 160)
- US Army helicopter pilot, Vietnam War 1960-1975 (480 144)

1:32

- US Marines fighter pilot WWII - Pacific theatre (320 082)
- US Army helicopter pilot, Vietnam War 1960-1975 (320 085)



BARRACUDACAST, USA

www.barracudacast.com

Just arrived from California are no less than five new detail and upgrade sets for the Monogram/Revell 1:72 B-1B Lancer (adaptable for the Airfix kit too). This immense model gets a new nose and tail correction parts, wing gloves, nose and main wheels (non-weighted tyres), replacement air intakes plus late-pattern exhausts and rear nacelles. It's a lot of resin for this otherwise very good kit, the sets refining and accurising some key areas. The exhaust set is extremely fine indeed, with individually cast actuator arms for the 'petals' of the afterburner cans and internally detailed nacelle ends; the latter is one of the most flawless resin castings we've ever seen at TMML. If you intend to build the 1:72 B1-B, do give these sets some serious consideration, they are fantastic.

1:72

- B-1B Lancer late exhaust and rear nacelle upgrade (BR72298)
- B-1B Lancer intake and forward nacelle upgrade set (BR72300)
- B-1B Lancer main and nosewheel set (BR72299)
- B-1B Lancer wing glove set (BR72301)
- B-1B nose and tail correction set - late (BR72296)



New Releases

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

What's in the box?

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



ITALERI, ITALY MERCEDES-BENZ ACTROS MP4 GIGASPACE

www.hobbyco.net

SCALE 1:24

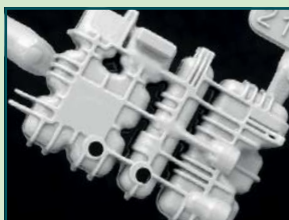
MATERIALS; IM, SVT, WS

ITEM; 3905

Italeri's new kit makes use of completely new moulds and so the detail is of the most modern standards. This is a full-chassis model, with a built-up frame, air-suspension and a magnificent representation of the huge Diesel engine which includes all the main ancillaries and hardware; all the modeller needs to add is cabling and other pipework. Other features include steerable front wheels, air-intake trunking, a choice of wheel-hub details and naturally, a fully kitted-out cabin. In here we have a fantastically crisp dashboard and cabin floor; although it is a slight shame that the seats are moulded with open backs; epoxy putty can fix this. A square of plastic mesh is supplied for the area behind the big Mercedes badge on the front grille. This panel can be fitted in the raised position if the cabin is tilted; this is an 'either-or' option. Two decals options are provided, one for an overall silver vehicle with oversized MB logos on the cabin sides and a white-painted machine with silver/grey flame emblems. Both look great, although many modellers might wish to apply different haulage company markings.

+ Fantastic detail in this completely new-tooled model. Non-branded tyres feature raised sidewall data; better than being plain

- Cabin seats have no rear panels but this is hidden once installed



DRAGON, HONG KONG IJA TYPE 4 LIGHT TANK KE-NU

www.hobbyco.net

SCALE 1:35

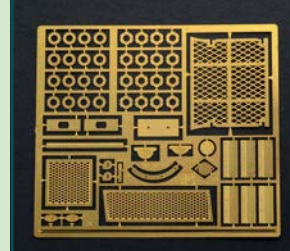
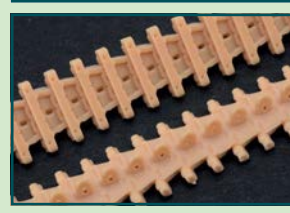
MATERIALS; IM, SVT, WS

ITEM; 6854

This is a completely new, state-of-the-art kit from Dragon, depicting the Imperial Japanese Army Ke-Nu light tank, fundamentally a Type 95 Ha-Go light tank with the larger and more powerfully-gunned turret from the Type 97 Chi-Ha. From a close-up look at the sprues, the detail is absolutely stunning, with perfectly rendered conical rivets around the turret sides, open-moulded engine deck louvres within the individually formed hatches which are ideal for potential aftermarket engine sets. The turret interior is filled with the breech, shell case bag and operating mechanisms of the 57mm main gun and rear MG, plus a turret ring with toothed drive-ring. The suspension bogies feature photo-etched discs for hub detail and the wheels exhibit incredibly fine logos on the rubber tyre sidewalls. Although this is a 'Smart Kit' there are still some essential photo-etched parts for the outer hull, such as a mesh exhaust shroud, other mesh panels, some data plates and small fittings. This looks to be a wonderful little kit with tons of detail and plenty of character. The icing on the cake would be a set of Friulmodel metal tracks to attain that distinctive sag.

+ Exceptional detail over the entire model surface, well-planned PE parts, excellent subject choice

- DS tracks feature excellent detail but there have been some issues over the material's habit of shedding paint



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



AMUSING HOBBY, JAPAN PANTHER II

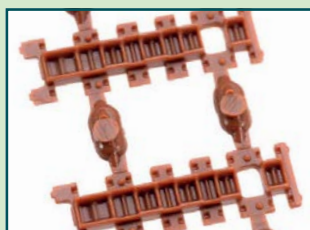
www.modellbau-koenig.de
SCALE 1:35

MATERIALS; IM, SVT, WS
ITEM NO.35A018

The WW2 German Panther will always be a popular scale modelling subject and the more exotic the version the better, it seems. There are few more interesting Panthers than the 'II' with its Tiger II-type, steel-wheel suspension and Schmalturn rangefinder turret giving it a lean, late-war look. Amusing Hobby have created an all-new kit of the vehicle and it comes with a couple of appealing features, such as highly detailed, multipart articulated tracks that perfectly replicate the Panther II's special design. They'll need very precise applications of liquid cement to remain workable but are beautifully detailed. Another neat inclusion is a choice of main gun barrels – plus mantlets and turret faceplates – allowing differing sub-variants to be represented. The model comes with photo-etched mesh engine screens, separately moulded engine access hatch and also an individual driver's compartment roof with hatches and inner props. The pioneer tools mostly come with their clamps moulded in (a couple have PE parts here), but the separate upper-hull front frames are a nice touch. An impressively executed kit all round, and a must-have for Panther addicts.

+ Great attention to detail has been paid here, and the optional guns are an attractive inclusion

- The tracks are complex and involve lots of small parts!



EDUARD, CZECH REPUBLIC SPITFIRE MK.IXC EARLY VERSION

www.eduard.com

www.creativemodels.co.uk

SCALE 1:48

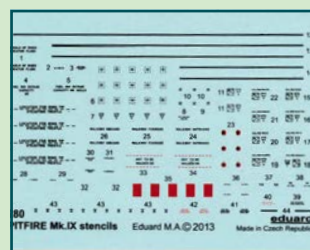
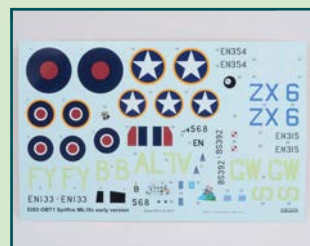
MATERIALS; IM, PE, WS, PCM

ITEM NO.8282

Marking options... With their sublime 1:48 Spitfire Mk.IXc, Eduard have established a benchmark kit of this most famous WW2 fighter, an achievement that that is likely to stand for years to come. The kit is still being released in various iterations and one the latest is the 'early version', which comes with two wing-options. Five markings-options are provided here; 'EN315' of Squadron Leader Stanisław Skalski, Polish Combat Team ('Skalski's Circus'), North Africa 1943 (the kit's box-art subject and also one of the schemes offered in Tamiya's 1:32 kit), 'EN133' 611 Squadron, Biggin Hill early 1943, 'EN568' of Wing Commander Alan C Deere, Co Biggin Hill, June 1943, 'EN354' of 1st Lieutenant V Helton, 52nd Fighter Group, 4th Fighter Squadron, La Sebala Airfield, Tunisia, June 1943 and 'BS392' of Squadron Leader Bernard Dupérier, CO of 340 Squadron Biggin Hill Autumn 1942. Three of the schemes are green/grey and two are Mediterranean Scheme colours so there's plenty of variation in finishes on offer. As this is a ProfiPACK edition, we are treated to Eduard's superb PE sheet and canopy masks too.

+ Little to add about the quality of the kit; it's superb. The new decals offer the modeller some appealing options

- Errm, no criticism worth a mention here!



New Releases

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

What's in the box?

AD; ACETATE DIALS, **AP**; ACRYLIC PAINT, **CC**; CAST CERAMIC (PLASTER), **CMA**; CAST METAL ALLOY, **CP**; CHROMED PARTS, **CPS**; CLEAR PLASTIC SHEET, **DT**; DRY TRANSFER (DECALS), **EM**; ELECTRIC MOTOR **EPS**; EXTRUDED PLASTIC SECTION, **F**; FABRIC, **IM**; INJECTION MOULDED (PLASTIC), **ITL**; INDIVIDUAL TRACK LINKS, **LC**; LIQUID CEMENT, **LCC**; LASER CUT CARD, **LLT**; LINK AND LENGTH TRACKS, **MC**; METAL CHAIN, **MMA**; MACHINED METAL ALLOY, **MR**; METAL ROD, **MT**; METAL TUBING, **MW**; METAL WIRE, **NM**; NYLON MESH, **PB**; PAINT BRUSH, **PCM**; PRE-CUT MASKS, **PE**; PHOTO ETCH, **PEBM**; PHOTO-ETCHED BADGES/MIRRORS, **PMP**; PRE-ASSEMBLED METAL PARTS, **PS**; PAPER STRIP, **R**; RESIN, **SVT**; SOFT VINYL TYRES (OR TUBING), **VF**; VINYL FIGURES, **VFP**; VACUUM FORMED (PLASTIC), **WC**; WOVEN CORD, **WD**; WATERSLIDE (DECALS), **WS**; WOODEN STRIP



HORIZON MODELS, AUSTRALIA

MERCURY REDSTONE

www.horizon-models.com

SCALE 1:72

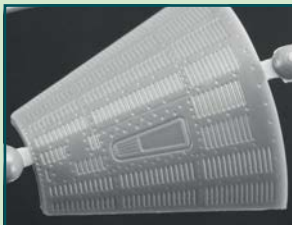
MATERIALS; IM, PE, WS

ITEM NO.8282

Project Mercury was NASA's initial manned-spaceflight programme, taking place from 1958 to 1963 and successfully launching six astronauts – Scott Carpenter, 'Gordo' Cooper, John Glenn Jr, 'Gus' Grissom, 'Wally' Schirra and Alan Shepard – into Earth orbit. The Mercury capsule is an icon of the USA's spaceflight and so this kit is highly significant for anyone's real-space model collection. The kit is in 1:72 which is an ideal scale for space vessels, at least the smaller ones such as the Redstone launch vehicle! The kit is moulded in mid-grey polystyrene across three sprues, two of which are duplicates and carry the booster and upper airframe halves, fins and other repeated parts. Two sheets of photo-etched metal are also included, along with decals for one of four versions; the unmanned MR-1 (Nov 20th 1960), MR-BD unmanned with the 'boilerplate' test capsule (March 24th 1961), MR-3 with Alan Shepard (May 5th 1961) and MR-4 with Gus Grissom (July 21st 1961). The moulded detail is exemplary, with fine, recessed lines and fasteners around the booster body and a perfect rendition of the ribbed pattern on the capsules.

+ A fantastic subject choice and a highly evocative and historic one too. Superb detail and very thorough instructions. Decals by Microscale

- One or two ground-crew figures, to lend a sense of scale, would have been great, but it's not really a criticism



THUNDER MODEL, CHINA

US ARMY TRACTOR

www.pocketbond.co.uk

SCALE 1:35

MATERIALS; IM, PE, SVT, WS

ITEM NO.TM35001

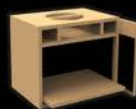
Thunder Model is a new manufacturer who have been busily creating a new line of military kits and the Case VAI tractor is one of their first. During the Second World War, the US manufacturer Case built over 15,000 special-purpose and modified tractors for the US military in forty different types and it was a common sight in many locations. So this new kit is very welcome indeed and will fit into many a diorama. It comes on just two sprues of light grey polystyrene but it's by no means a simplistic production, in fact the parts breakdown and detail is fantastic. Like many tractors, the 'chassis' is actually the engine and gearbox with a basic live axle at the rear, with a simple pivoting front suspension beam at the front. The kit replicates this perfectly, with some incredibly fine mouldings to represent the link rods, control levers and more. The engine is equipped with a photo-etched radiator fan and has some lovely details; just add ignition wiring and it'll look perfect. The tyres come in the form of flexible black vinyl mouldings and are of excellent quality.

+ Wonderful, charismatic subject with very refined detail and delicate mouldings

- Vinyl tyres are not universally liked, resin castings would be preferable



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FULL BUILD: MILITARY AVIATION
PILOT REPLICAS 1:48 SAAB J 21A-3 ● KIT NO.48-A001

SWEDISH ODD

Mattias Ärletun describes how to get the best from Pilot Replica's 1:48 Saab J 21A-3



DBALL



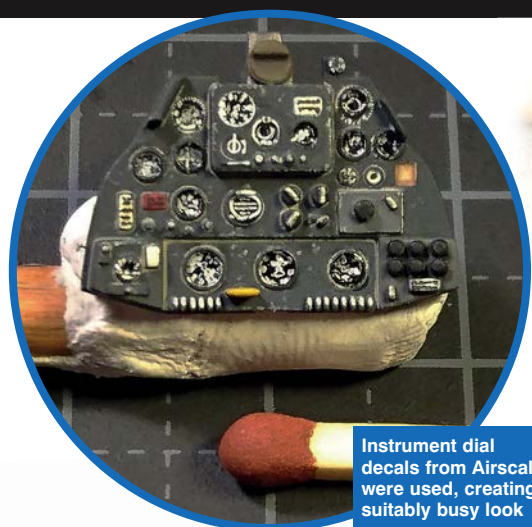
Being a neutral country, Sweden has, to a large extent, chosen to rely on indigenous aircraft designs for its air force for decades. Among several unconventional but successful layouts, the Saab 21 stands out as one of the more unusual, sporting a twin-boom pusher configuration, tricycle landing gear and one of the first ejection seats ever to be fitted to a production aircraft. A license-produced version of the Daimler-Benz DB 605B engine gave the aircraft a maximum speed of 640kph and the armament – consisting of one 20mm Bofors cannon and two 13mm machine guns in the nose and one 13mm in each wing – provided decent and concentrated firepower. Manoeuvrability at lower altitudes was excellent but limited rearward visibility, heavy controls and poor climb-rate made the Saab 21 more suitable for the attack role than the fighter role. The type was in service between 1946 and 1954 and was one of very few designs to be successfully converted to jet power.

THE KIT

The Pilot Replicas Saab J 21A-3 was released in 2015 as the company's debut kit and comprises around eighty-five parts in grey and clear injection moulded styrene as well as a photo-etch fret containing eleven parts. The surface detail is excellent with subtle recessed riveting and panel lines, as well as fine raised detail where appropriate. The plastic feels almost like a hybrid between styrene and resin and some of the mouldings, for example the landing gear struts and several cockpit parts, are absolutely exquisite. The kit seems very well researched and the instructions and colour/markings guide are printed on thick glossy paper, adding to the quality feel of the kit. A decal sheet printed by Cartograf, containing markings for three different aircraft, is the icing on the cake. ►

FULL BUILD: MILITARY AVIATION

PILOT REPLICAS 1:48 SAAB J 21A-3 ● KIT NO.48-A001



Instrument dial decals from Aircscale were used, creating a suitably busy look



The instructions suggest the entire cockpit be painted with Tamiya XF-61 Dark Green, but several different variations of green were used to form shading and highlights



The cockpit sub-assembly comprises twenty-one parts, including photo-etched seat belts



A view into the forward undercarriage bay, revealing some light weathering



The injection-moulded exhausts are not the best part of this kit, so the author replaced them with Pilot Replica's own cast resin upgrade parts, seen above during the painting and weathering processes



THE BUILD

When the Editor asked me to build this kit I realised that during my thirty years of building models, I had never built a Swedish aircraft or even an aircraft in Swedish Air Force service, despite me being a citizen of that very country. Well, about time then...

Unsurprisingly, construction starts with the cockpit which consists of twenty-one parts, including some very nice photo-etched seat belts for the ejection seat. Detail is very good straight from the box but as the glass for the reflector gun sight is moulded in solid grey plastic, I chose to replace it with a piece of clear acetate sheet tinted with Tamiya X-25 Clear Green. The instrument panel is beautiful but would have benefited from a decal for the dials. I added instrument dial decals from Aircscale instead, making for a suitably busy look.

The kit instructions call for almost the entire cockpit to be painted Tamiya XF-61 Dark Green, but I used several different variants of green as shades and highlights to add more interest to an area I knew

was going to be very visible through the large open sections of the cockpit glazing. Details were brush painted with Vallejo Model Color and after sealing everything with a coat of Alclad II Aquagloss I gave the cockpit an oil paint colour-wash with 502 Abteilung Starship Filth.

The main cockpit parts then need very careful dry-fitting and light sanding to fully line up and I suggest taking your time when gluing these parts together since the tolerances in this area are very fine and any misalignment will greatly affect the fit of the fuselage halves later.

UNDERCARRIAGE

With the cockpit ready, I turned my attention to the landing gear. The parts making them up are some of the better injection moulded styrene pieces I have ever seen and since the gear legs are very tall and prominent on the finished model, I'm glad Pilot Replicas put so much effort into them. I chose not to use the photo-etched scissor links for the landing gear oleos however, since the plastic ones have a more three-dimensional

look to them and are just as sublime. I added brake lines made from lead wire to the fork-shaped main gear legs, taking care to make two identical sets rather than two mirrored ones, as per on the real aircraft. All three gear legs were painted the suggested Tamiya XF-66 Light Grey, over a base of Tamiya XF-85 Rubber Black and then highlighted with a drop of flat white added to the Light Grey.

The main wheels are a very distinct detail on the J 21, looking almost tractor-like with a very pronounced tread pattern on the tyres to be able to cope with snowy or muddy conditions on rough airfields. Pilot Replicas have captured this detail very well and all three wheels are moulded as weighted. After painting the tyres in XF-85 I added some dust-coloured Mig pigments to the tread and rubbed some black pigment onto the areas of the parts of the tread in contact with the ground.

Early on in the build I decided I would have to do the following three things before closing up the fuselage halves: 1: Add more nose weight than the 20 grams recommended in the

instructions. 2: Replace the exhaust stacks. 3: Replace the kit propeller with similar but more crisply moulded one from another kit. I found a fishing lead weight with suitable dimensions, weighing at least twice as much as in the recommendations and forged it to fit inside the empty area in the nose of the aircraft. The lump of lead was then secured onto the 'roof' of the nose wheel bay with super glue.

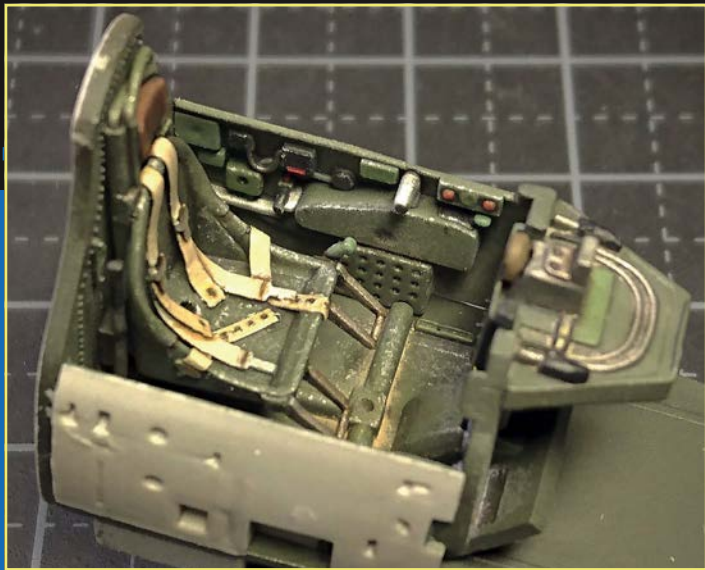
REPLACING THE EXHAUST STACKS

The injection-moulded exhaust stacks are not a highlight of this kit and I do recommend buying Pilot Replicas' own resin exhaust manifold (No.48-R-012) as they represent a huge enhancement over the kit ones. The exhausts were primed with Badger Stynylrez grey primer and then sprayed with Vallejo Metal Color Exhaust Manifold (77.723) and Jet Exhaust (77.713) in random patterns.

Following the instructions on the Pilot Replicas website I then thinned out the plastic from the inside, in the forward section of the slots for the exhausts. Cyano acrylate was then the



The cockpit and undercarriage parts have been prepared and are ready for use. Note how scrap sprue has been used as a handle for painting



The kit's cockpit is a pretty decent affair, straight out of the box. Multiple shades of green, plus colour-washes and highlighting help bring it to life

weapon of choice to secure the exhausts to the kit plastic after having carefully aligned them. To protect them during the rest of the build I made some paper covers for them to be on the safe side.

PROPS

Replacing the kit prop was another story, since propellers in pusher-configuration are pretty hard to come by. After much thought, I figured a rebuilt Messerschmitt Bf 109 prop would do. My kind friend – and fellow contributor to TMMI – Jan Abrahamsson, came to the rescue and sent me two propellers from an Eduard Bf109 kit to choose from. I separated the blades on the chosen prop with a razor saw and altered the pitch of them to match the kit ones. They were an absolute pain to glue back again but they finally succumbed to lots of Bondic glue and profanities.

In preparation of gluing the fuselage halves together, careful test-fitting is

necessary. The fit is very precise but I had to sand off some plastic on the rear cockpit bulkhead (kit part No.1) to the right and left of the ejection seat headrest for everything to fit right. The wings consist of a one-piece lower wing section and separate starboard and port upper wings. The lower wing on my kit was a bit warped but after securing the big piece to a flat surface and pouring near-boiling hot water onto it, it regained the correct shape.

ASSEMBLING THE BOOMS

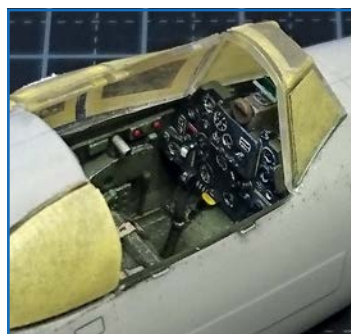
The twin tail booms are a simple affair but I decided to deviate from the instructions and leave all three landing gear struts off until later instead of attaching them at this stage, to avoid breaking them off when handling the model. I'm not sure if I forgot to clean the mating surfaces of the booms before gluing them together, but the Tamiya Extra Thin Cement I used failed to form a lasting bond between them and the seams split

open several times. After having switched to Tamiya Limonene Cement instead, the problem was solved. The main gear bays were painted Vallejo Aluminium (77.701) and weathered with oils and pigments to tone them down.

The rear join between the wing section and the fuselage pod left a bit to be desired and I had to use some filler to make a smooth transition between the two. Having twin tail booms on a scale aircraft model always presents a bit of a challenge and care needs to be taken to align the booms

with each other, with the wings and getting the fins to align vertically. Oh, and don't forget to attach the one-piece elevator between the fins or you will be in a world of hurt... The booms needed some filler where they attach to the fairings moulded in the lower wing and also where they join the wing trailing edge.

At this stage I painted the reflectors of the landing lights and glued their protective clear styrene 'glass' covers on with CA glue (after having coated the clear plastic with Aquagloss



The cockpit halves are brought together, sandwiching the internal structures. The gaps closed up successfully once cemented



WWW.Thundermodel.com

迅雷模型

Email: Thundermodel.info@gmail.com

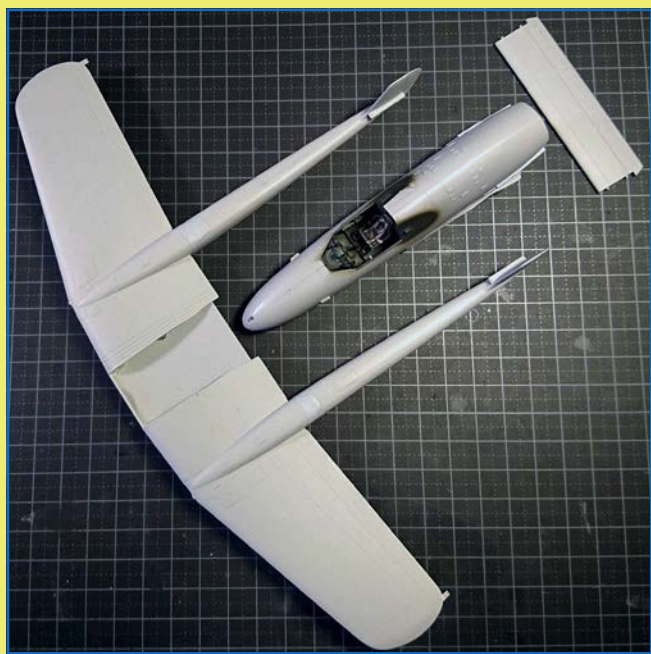


SPRING 2017

1/35 Scammell Pioneer TRMU30/TRCU30 Tank Transporter 30 ton

1/35 Scammell Pioneer SV/2S recovery tractor

1/35 Scammell Pioneer R100 heavy artillery tractor



Here we can see that truly odd airframe coming together. To bring the boom halves together, the author used Tamiya Limonene Cement which worked better with Pilot Replica's plastic. Some filler was also needed where the booms joined the wings. Don't forget the empennage while assembling the airframe!

to prevent fogging). After studying some reference photos I opted to replace the wing machine gun blast tubes with aluminium tubing and simulated the gun barrels for the 13 mm guns with cut-off syringe needles, making for a much crisper look than that of the kit parts. I also drilled/carved out the opening of the air intake for the supercharger, located on the starboard side of the aircraft.

CANOPY TIME

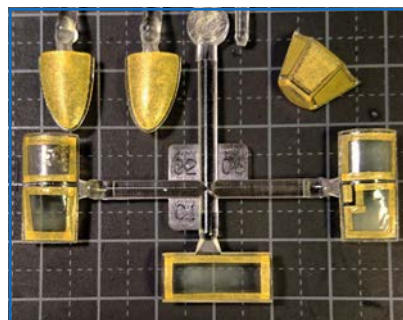
Next came the part I had been dreading ever since starting this build, namely masking and attaching the cockpit glazing. Armed with Tamiya tape, a fresh Swann-Morton No.11 blade, liquid latex mask and a bucket load of patience, the masking was accomplished over the course of a couple of evenings. Most of the parts in this kit are very scale-like and that goes for the frames on the clear parts as well, making them harder than usual to pick out through the tape. In the end though, this and other similar details add to the realism of this kit. Most of the clear parts were then attached using Formula '560' Canopy glue. Before attaching the droplet-shaped rear-most glass section on the starboard side however, I took care to paint and

detail a small sleeve for a service book located inside of that blister. A placard from Archer Dry Transfers added some credibility to the aluminium sleeve and I also made my own little hieroglyphs on tiny booklet showing through an opening in the sleeve.

THE PAINT

In preparation for the overall coat of Stynylrez Gray primer I stuffed some foam rubber into all three gear bays and in the cockpit and sealed the areas with liquid latex mask. I also made sure to mask off the landing lights and the oval window in the lower nose. The frames of the cockpit glazing were then shot with XF-61 Dark Green and 99.5% rubbing alcohol was used to clean the surface of the rest of the model. The Stynylrez settled down very well, as usual. The primer revealed some spots in need of attention but they were soon sorted out.

The instructions suggest Tamiya XF-66 Light Grey for the undersides of the aircraft but I decided to use it only as a base coat and then used XF-82 Ocean Grey to create subtle shadows where appropriate. To make highlights I used Mr Hobby Aqueous H307 Grey, sprayed from the centre of individual panels and in irregular cloud and squiggle patterns.



Using Tamiya Masking Tape, a fresh Swann-Morton No.11 blade, liquid latex mask and ton of patience, the canopy masking was completed in a couple of evenings



The edges of the canopy framing were defined with strips of tape and the inner portions then filled in with liquid masking material



Most of the clear parts were secured with Formula 560 Canopy Glue from Pacer



The author replaced the wing machine gun blast-tubes with aluminium tubing



An overall undercoat of Badger 'Stynirez' Gray primer was first applied



Tamiya XF-61 Dark Green was used for pre-shading the panel and rivet lines



Mr Hobby H309 Green was airbrushed in several thin layers for the final colour coat, allowing some pre-shading to show through



The superb decal sheet is printed by Cartograf and is in perfect register



A coat of matt varnish restored the correct finish for the airframe



The national insignia were toned down slightly, using coloured pencils

After having given the Mr Hobby paint the customary several days to harden I used white-tack to mask the demarcation line between the upper and lower camouflage colours and masked the rest of the undersides with tape since I didn't want to risk any accidental overspray when airbrushing the tail booms.

OVERALL GREEN

When choosing the green colour for upper surfaces of the model I again deviated from the instructions and instead of using the suggested XF-61 as the overall colour only used it to pre-shade all the panel lines and some rivet lines. Mr Hobby H309 Green applied in several thin layers gave me the effect and tone I was after, with the green pre-shading showing through very subtly.

Fast-forward a couple of days and the entire model was read for a generous coat of Aquagloss in preparation for the decals. Aquagloss hardens in less than an

hour and creates a rock hard and very shiny surface for the decals to adhere to. The decal sheet is one of the many highlights of this kit; well researched, printed by Cartograf and of course in perfect register, the decals settle down into all panel lines, rivets and over raised detail with the help of some Micro Sol or Mr. Mark Softer.

WEATHERING THE AIRFRAME

I treated the top surfaces of the model with a 'Starship Filth' oil wash and the grey undersides with a mix of Starship Filth and Engine Grease and now all the magnificent surface detail on this kit could be fully appreciated. Simply gorgeous! I also made sure to add oil and dirt streaks, especially under the fuselage pod and around the gear wells. When the oils had been sealed with matt varnish I subjected all lower surfaces to micro-chipping where appropriate, done with a Bruynzeel 3B pencil.

This treatment takes forever but if done right, looks

extremely realistic. The green paint used by the Swedish Air Force during this period seems to have been quite resistant to weathering so I had to restrain myself from going to town on it. Instead, to break up the green camo a bit, I used the silver pencil to add micro-chipping to every single rivet (except on the decals) and also to areas where wear and tear would occur. Chipping all the rivets might not sound like the most realistic thing to do, but the overall impression is very

convincing.

The blue and yellow of the Swedish Air Force roundels – although correct in colour – stood out far too much for my taste against the rest of the model so I set about fading them using white (for the yellow) and light blue aquarelle pencils from Koh-I-Noor. The end result is a sun-bleached appearance that looks far more realistic and pleasing to my eyes. Everything was then sealed with another coat of Vallejo Matt Varnish. ▶



She's nearly there! Final details are being added, always a tense time with any model



Pilot Replicas also make this excellent resin figure

❖ THE FINAL ASSEMBLY

The masking tape was now removed from all the clear parts and to with great relief I noticed no paint leaks or other mistakes on them. The builder has the option to add photo-etched frames to the insides of the open sections of the cockpit glazing. These fiddly parts have to be bent so their curvature matches that of the clear parts. Not an easy task, but by using UV-curing Bondic glue to spot-weld them on and then Aquagloss as an effective non-fogging glue I managed to get them in place eventually. The open sections provide an excellent view of the cockpit and really make all the time spent detail-painting the cockpit worth while.

I was worried that the landing gear legs that were left off when constructing the tail booms would be hard to attach later and prone to breaking off, but again Bondic came to the rescue and made both the main gear and the nose gear surprisingly sturdy. The 20mm cannon muzzle was replaced with an old Karaya .50cal barrel and a cut-off

syringe made for a new pitot tube. The corresponding injection moulded kit parts unfortunately lack detail and definition and I recommend swapping them out for better alternatives. The final parts to go on were the propeller/spinner assembly, the ladder and the photo-etched antenna protruding from the starboard boom just in front of the landing gear, with dark 0.1mm fishing line for antenna wire.

THE EXTRAS

Besides sending me this kit, the Editor also provided me with two of Pilot Replicas' own aftermarket additions; a triangular tow bar (48-R-006, made up of three resin parts and three beautiful turned brass rods) and a resin pilot figure (48P010). I primed the tow bar, shot it with yellow, masked off 6mm wide sections with Tamiya tape and airbrushed two layers of Ammo of Mig A.MIG-2010 Scratches Effects over the exposed sections.

These were then painted over with a couple of thin coats of Tamiya XF-1 Flat black and the black was

then scratched and chipped with a toothpick and a stiff brush after having activated the Scratches Effects layer by brushing on some water. Rust and dust pigments were fixed to the tow bar and a lead pencil was used to add exposed metal where appropriate.

I then found a thick, square oak board that I had saved for many years and its dimensions were just right for the J 21 and the accessories. I glued a cork mat onto the board, divided it diagonally, smeared a layer of fine furniture filler on one half and glued a mix of Woodland Scenics static grass, GaleForce Nine flocking and Army Painter grass tufts on the other half. The slabs of the concrete half were scribed with a model saw, using a steel ruler as a guide and then painted with various grey Tamiya colours. The different colours of the grass half were blended together with green and brown Mig Pigments and a few flower tufts – also from Army Painter – added to break up all the green.

THE CONCLUSIONS

I get the feeling that the people at Pilot Replicas really wanted to get this model right and they certainly did their homework when designing the kit. While not perfect, the pros by far outweigh the cons. Any twin-boom aircraft poses a challenge both during the construction and painting stages and this one is no exception. However, with a methodical approach and a bit of patience the modeller will be rewarded with a highly detailed replica of an unusual and rather colourful aircraft, without even adding any aftermarket items (although I do recommend getting the resin exhausts). The model also stands out in any collection with its very high stance, tricycle landing gear and unconventional layout and makes for a good conversation piece. ●

AVAILABILITY;

Pilot Replicas models and accessories are widely available from good model shops and online.
www.pilot-replicas.com





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MESSERSCHMITT BF109 IN ACTION

HANS-HEIRI STAPFER, SQUADRON SIGNAL PUBLICATIONS

Available from good books sellers. For further information; www.adhbooks.com
ISBN: 978-0-89747-820-5

How do you cover the Bf109 in just one book? It's a challenge of course, but in this eighty-four page softback from Squadron's 'In Action' series (No.10243) provides a very worthwhile introduction to the fighter, from the V1 prototype, through the better known production models ('E', 'F', 'G') to the late 'K' 'Kurfurst' variant. The types are broken down into chapters, comprising original photos with useful captions plus a concise, descriptive text. Colour profile illustrations are scattered throughout, helping to describe typical camouflage schemes. The book is by no means a definitive source on any one version, but it is an extremely handy quick reference for Messerschmitt's most famous fighter. As a bonus, the engine and cockpit close-ups over six pages offer modellers some genuinely useful references.



UH-1 HUEY IN ACTION

DAVID DOYLE, SQUADRON SIGNAL PUBLICATIONS

Available from good books sellers. For further information; www.adhbooks.com
ISBN: 978-0-89747-843-4

There are few military machines that better symbolise the conflict in which they served than the Huey helicopter; even the sound of the rotors thumping away evoke the Vietnam War films that we have all seen. This new eighty-four page softback title from Squadron Signal goes beyond the Vietnam War era and looks at the UH-1 from its prototype stages in the mid-1950s, through its development into gunships, medevac, transport, search-and-rescue and PSYWAR Ops and onwards in the helicopter's development, with multi-engined, four-bladed rotor variants. Naturally, the book focuses on the Huey's involvement in the South East Asian conflict and there are some superb colour photos of them being serviced, armed-up and in flight, really iconic stuff. For modellers, there are numerous detail shots showing various aspects of the machine, but if you're looking for close-up detail views, Squadron's companion title, 'UH-1 Huey Gunships Walk Around' (5536, Walk Around No.36) provides a more complete picture.



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NEXT ISSUE

The next issue of TMMI is August 2017 (No.262),
on sale July 20th

TYPE 45: IN THE NAVY

Airfix's 1:350 Type 45
Destroyer, full-build



SONDERKRAFTFAHRZEUG!

Tamiya's still-excellent 1:35
Sd.Kfz.222 gets a camo coat



THE X-FILES

Special Hobby's X-15 in 1:32, full-build

...AND MUCH MORE, OF COURSE!

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

Order online now at; www.tamiyamodelmagazine.com

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Not one, but three Tyrrell P-34 models are on the way back

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THE SIX-WHEEL WONDER RETURNS!

Tamiya's decision to re-launch three models of the famous Tyrrell P-34 six-wheeled Formula 1 car has been very well received by modellers, and by me too. The 1:10 radio-controlled kit, the 1:12 'Big Series' model and 1:20 release are all on their way back, the latter two coming with photo-etched detailed to supplement the moulded plastic parts. It's forty years since the original car took part and the re-issue of the kits celebrates this. Tamiya even put an example of the real car on exhibit on during this year's Shizuoka Hobby Show, as we can see here - it still looks extraordinary and is surely the most memorable Formula 1 car ever. Keep reading TMMI in the coming months for more information and full-builds on this subject! ●

EDITOR'S CHOICE

MISSION MODELS POLYURETHANE MIX ADDITIVE

www.missionmodelsus.com

I have been using this material for some weeks now and it has some useful qualities. When added to Mission Models' own acrylic paint brand when airbrushing, it slows the drying of the paint enough to allow a wet layer to form, letting the paint level itself. This means that the thousands of tiny droplets that have landed on the model's surface merge into each other forming an continuous skin, greatly reducing the grainy appearance that model paints can sometimes leave. The material can also be used as a gloss-coat for decalling.

See you again next time

Marcus Nicholls

editor@tamiyamodelmagazine.com



INFANTRY TANK MATILDA Mk.III/IV “Red Army”



**1/35
SCALE**

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Reinforcements are here!

1/35 Military Miniature Series Infantry Tank Matilda Mk.III/IV “Red Army” (Item 35355)

With the Soviet Union on the back foot following their invasion by Nazi Germany in June 1941, the U.S. and U.K. decided to undertake a program known by many as the “lend-lease,” whereby they provided the Soviets with materiel. Over 1,000 Matildas were sent under the scheme; the 2-pounder gun-toting infantry tanks only had a top speed of 24km/h but boasted 78mm armor and were pushed into action quickly on the Red Army’s various fronts. As conditions in the Soviet Union were significantly different to locations where the British forces were fighting, many Red Army Matildas were given tracks with greater grip, and other practical changes were implemented. Now, the Red Army Matilda joins the Tamiya 1/35 Military Miniature Series; why not build and compare it with the British spec Matilda, or fellow lend-lease tank the Valentine? Either way, don’t miss this chance to reinforce your collection!

2 torso figures included.

Includes 2 marking options.
Various turret slogans are
also recreated.

★ **МАТИЛЬДА**

Length: 164mm, Width: 72mm

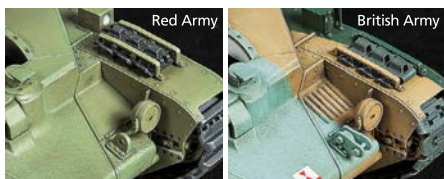
Cast iron turret surfaces, etc.
realistically depicted.

New parts recreate
winter tracks.

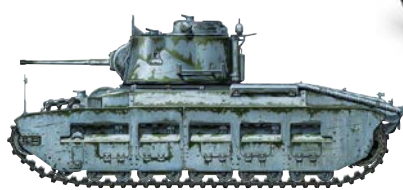


Red Army side skirts
are depicted.

Assembly type tracks use
individual links.



★ Slit-less locker hatches on hull front are Red Army Matilda spec.
(★ Parts to recreate British Army Matilda are not included.)



19th Tank Corps (winter camouflage)

Lend-lease stablemate



1/35 Military Miniature Series
British Infantry Tank Mk.III Valentine Mk.II/IV
(Item 35352) Length: 157mm, Width: 82mm

★ Images show assembled and painted kits. ★ Products may vary from images shown.

The Valentine infantry tank was also passed to the Red Army under the lend-lease program, and is a fellow member of the Tamiya 1/35 Military Miniature Series. The Valentine was developed in the late 1930s, and early examples were ready for deployment in June 1940. They were produced in large numbers, in part to make up for a shortfall in materiel after the evacuation from Dunkirk in June, 1940. While the British Army used them in North Africa, and largely retired them from June 1943, Soviet Forces received over 4,500 and used them up until the end of the war, mainly in a reconnaissance role. This detailed assembly kit features 2 Red Army marking options, and 1 British Army.

British Army Valentine
1 marking option included.

Parts recreate British Army
desert-use side skirts.

Features realistic cast
and plate surface depictions.

Red Army Valentine
2 marking options included.



Assembly type tracks
feature 1-piece straight
sections.



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Honda CRF1000L Africa Twin

1/6 Big Scale Motorcycle Series (Item 16042)



Africa Twin: Like No Other

Honda's CRF1000L inherits the illustrious Africa Twin name which was first bestowed upon the XRV650 replica model of the NXR750 that had taken part in the grueling Paris-Dakar Rally. This adventure-touring bike is crystallized in finely detailed 1/6 scale by Tamiya's latest assembly kit model in the Big Scale Motorcycle Series. It luxuriously depicts features such as the parallel twin engine, semi-double cradle frame and high-performance suspension, while the wheels are masterpieces in molding, with multiple parts used to capture the spokes and rim. Also included are metal-plated and clear parts, and solid metal parts too, for an accurate and realistic finish second to none.

★Detailed 1/6 scale recreation of the Honda CRF1000L Africa Twin. ★Metal shafts and screw-attached parts give a truly authentic and durable finish. ★Semi-pneumatic synthetic rubber tires have realistic tread patterns. ★Metal-plated parts depict headlight reflectors, exhaust cover, mirror surfaces, emblem and more for a superior look. ★Vinyl tubing is included to recreate throttle wire, brake lines and more. ★Comes with clear red brake light and clear orange reflector parts. ★Masking stickers are included to help recreate 2 color schemes.

Moving front fork has metal outer and inner tubes plus internal coil springs.

Length: 389mm, Width: 158mm, Height: 255mm

Features detailed recreation of the 998cc 4-stroke parallel twin engine. Optional DCT pedal part is included.

Moving rear swing arm suspension is recreated with aplomb.

Choose between Tricolor and Victory Red color schemes.



Optional center stand is included.

Separate rim and spoke parts give a fine finish and simplify the paint job.

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①Screw-attached front windshield. Dual headlight depiction uses clear and metal-plated parts. ②Decals recreate rally spec LCD display. Switches are also rendered with accuracy. ③Engine depiction benefits from separate parts for radiator, airbox and more. ④Features metal-plated silencer exhaust components. Brake lights are multi-part.

Add another layer of precision!

Also available is this separately sold assembly kit, which recreates individual links using a jig. When attached, the wheel and chain move in tandem.

**Detail-Up Parts Series
Assembly Chain Set
for 1/6 Scale Motorcycle** (Item 12674)

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

