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HAWKER'S HUNTER

EDUARD'S
NEW-TOOL
1:48 TEMPEST
IN DETAIL



Model MAGAZINE

www.tamiyamodelmagazine.com



TAMIYA'S NEW
1:35 PZ.38(T) ARRIVES

BARBAROSSA BATTLEWAGON

INSIDE...

Tamiya's classic 1:48 Swordfish revisited, Telford 2019 show report, Tomcat and
F/A-18 on a carrier deck, plus new kits, books and modelling accessories...

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TOYOTA GR Supra



Japan Version



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Pure Modeling Bliss

1/24
SCALE

1/24 Sports Car Series TOYOTA GR Supra (Item 24351)

Announced in January 2019, the TOYOTA GR Supra is a pure sports car whose design team have painstakingly engineered the wheelbase, tread and center of gravity to ensure that its driver enjoys superlative balance and handling like a dream. Now, you can own it in detailed Tamiya 1/24 scale as it joins our famed 1/24 Sports Car Series. The sensuous long nose, short deck form with striking bubble roof is recreated in style, with black body sections molded as separate parts to ensure an easier paint job – whatever the color! Red areas of the sporty interior are depicted by white parts to let you achieve a striking shade of red, while the underside and suspension are rendered with realism. The result will be a super stylish, cutting edge addition to your model collection!



Two-part wheels feature metal plated component.

The form of the car is elegantly depicted in 1/24 scale, with metal transfers and masking stickers included in the kit. Choose to assemble as right- or left-hand drive. ① Separate parts depict grilles and spoiler. LED headlight depictions feature clear internal components. ② Realistic interior uses white parts to be painted red.

Components marked with ★ are separate parts.

U.S. Version



The car's extensive underpanel is depicted, as are front and rear suspension, plus rear arm aero covers.



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

A Racer Covered in Glory

The triumphant TS050 HYBRID endurance racer from the 2018-2019 season is also available in detailed Tamiya 1/24! ★The honed form with multiple aero parts is recreated with great accuracy. ★Cockpit features metal-plated roof and detailed interior. ★Decals allow creation of No.7 or No.8 car from final race of 2018-2019 season. ★Metal transfers depict headlight LEDs and side mirror surfaces.

1/24 TOYOTA GAZOO Racing TS050 HYBRID 2019 (Item 25421) LIMITED EDITION

cartograf

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

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



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Tamiya's new 1:35 Pz.38(t) is here!



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Model MAGAZINE INTERNATIONAL

Issue 292 February 2020

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IN BRIEF...

DRAGON

- 1:35 Pz.Kpfw.III ausf.M Kursk 1943
- www.hobbyco.net



FINE MOLDS

- 1:20 Laputa Castle In The Sky Robot Soldier (battle version)
- www.finemolds.co.jp



LEGEND PRODUCTIONS

- 1:35 IDF M579 Filter Conversion set
- 1:35 IDF M577 Mugaf Early Conversion set for Tamiya M577
- 1:35 M577 Detailing set for Tamiya
- www.legend.co.kr (dash, not dot)

MENG

- 1:12 Ford GT40 Mk.II
- www.creativemodels.co.uk



MINIART

- 1:35 T-55 Czechoslovak Production
- www.creativemodels.co.uk



TAKOM

- 1:35 Pz.Kpfw.III ausf.M mit schürzen
- 1:35 US Army 1/4 ton armoured truck
- www.pocketbond.co.uk



TAMIYA

- Tamiya Necktie "Zero Fighter" (Dark Blue)
- Roborace DevBot 2.0 (MA Chassis)
- Cosmononic (FM-A Chassis)
- 1:24 Toyota Celica XX 2800GT
- 1:10 RC Porsche 911 GT3 CUP VIP 2008 (TT-01 Type-E)
- 1:10 RC Ford SVT Mustang Cobra R 1995 (TT-01 Type-E)
- 1:10 RC Eunos Roadster (M-06)
- 1:10 RC Super Clod Buster Black Edition
- 1:10 RC Toyota Supra Racing (A80)
- 1:10 RC TOYOTA GAZOO Racing TS050 HYBRID 2019 (F103GT)
- TRF-Racer Jr. Black Special
- Mini 4WD Portable Pit (Pink)
- TRF-Racer Jr. Black Special
- www.hobbyco.net

VOLKS

- 1:35 Blue Knight Death Messenger Scopodog
- www.volks.co.jp



NEW FROM TAMIYA - 1:24 Toyota GR Supra

Last issue we brought you a kit preview of Tamiya's new Toyota GR Supra, and here are some new factory photos of the model! Full-build review coming soon.
www.hobbyco.net



ON THE WAY FROM ZVEZDA 1:43 UAZ-3909 Emergency Gas Service

We have a review of the new 1:43 UAZ-3909 this issue and this fabulous little model will be followed by the Emergency Gas Service variant. We just need one in 1:35 now!

www.hobbyco.net



NEW FROM DAS WERK 1:35 2cm Salvenmaschinikanone SMK18 Typ 2

Very little is known about the WW2 German Salvenmaschinikanone (SMK) 18 Typ 2 anti-aircraft gun, but Das Werk are releasing a 1:35 kit of it soon!
www.das-werk-models.com



NEW FROM TAMIYA Tamiya Catalogue 2020

Essential reading for 2020! Tamiya's new catalogue must not be missed!
www.hobbyco.net

NEW FROM TAMIYA - Lacquer Paint newcomers

Three new military colours are on the way from Tamiya in the fantastic Lacquer Paints line: LP-73 Khaki, LP-74 Flat Earth and LP-75 Buff. All are best applied via airbrush and offer a tough, ultra fine-grained finish without the need for primer.
www.hobbyco.net



ON THE WAY FROM RYE FIELD MODEL 1:35 M-ATV MRAP

RFM have created a fantastic new 1:35 of the M1240A1 M-ATV 'MRAP' vehicle, complete with engine detail, a full interior and more. Also on the way in 1:35 is the Sherman Firefly VC, SturmTiger with workable track links, Pz.Kpfw.VI (7.5cm) Ausf.b (vk36.01) and Panzer IV, Ausf.J Late Production.
www.tigerhobbies.co.uk



NEW FROM EDUARD - Brass Hummel details

Tamiya's recently released 1:35 Hummel SPG can now be treated to photo-etched brass track-guards and ammunition lockers, courtesy of Eduard. On sale soon. www.eduard.com www.creativemodels.co.uk



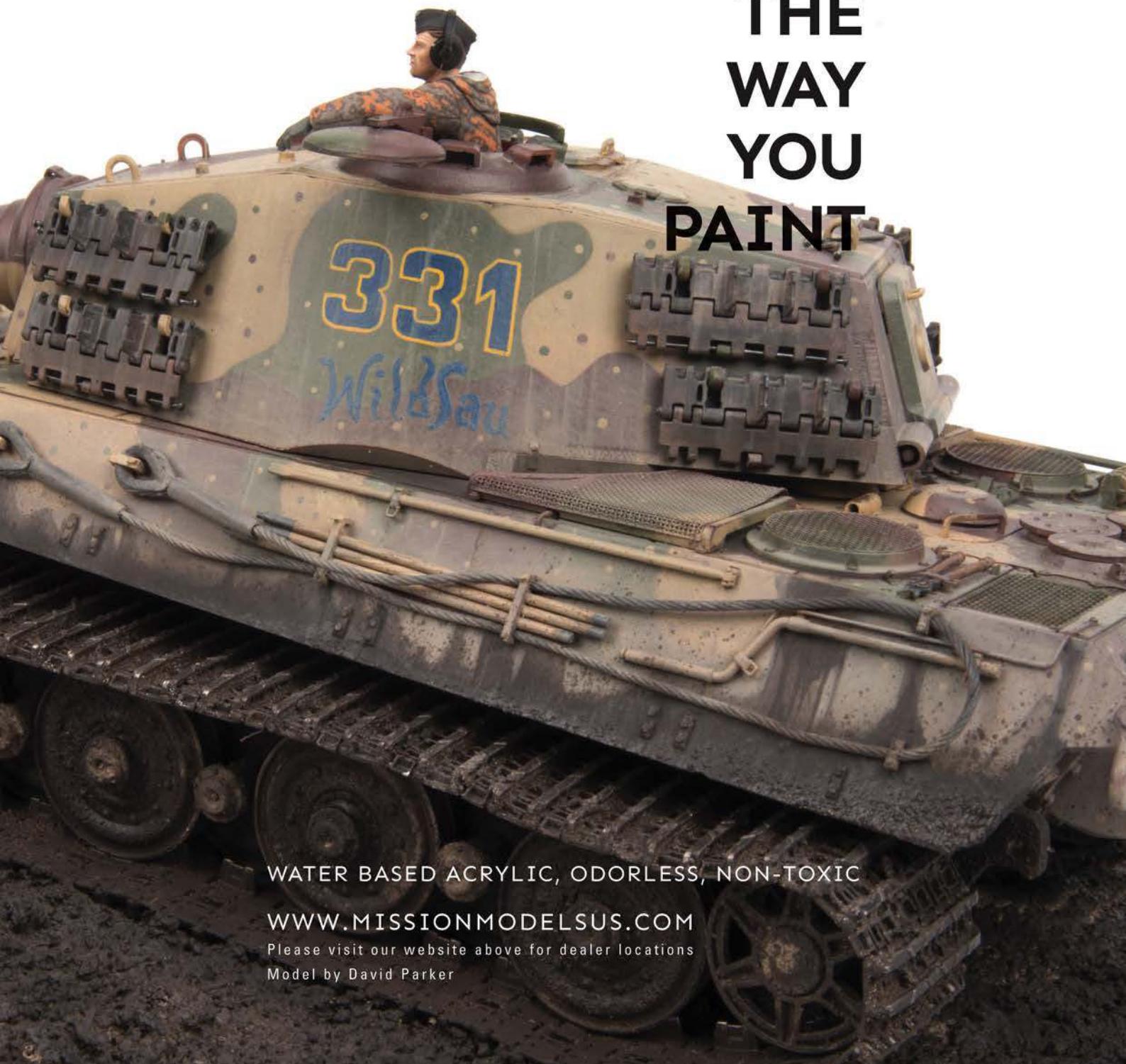
ON THE WAY FROM REVELL 1:48 He111 H-6

Revell have re-boxed ICM's excellent 1:48 Heinkel He111 H-6 and released it in the eye-catching Mediterranean "wellenmuster" scheme.
www.revell.de/en

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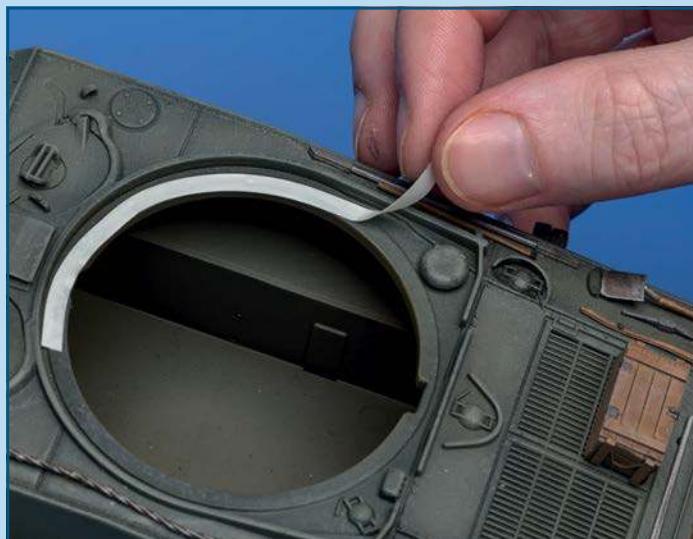
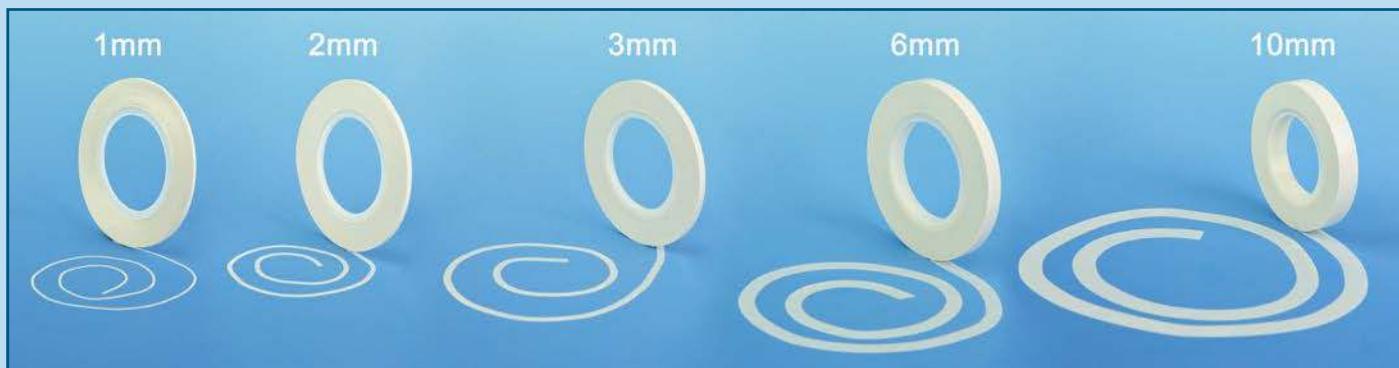
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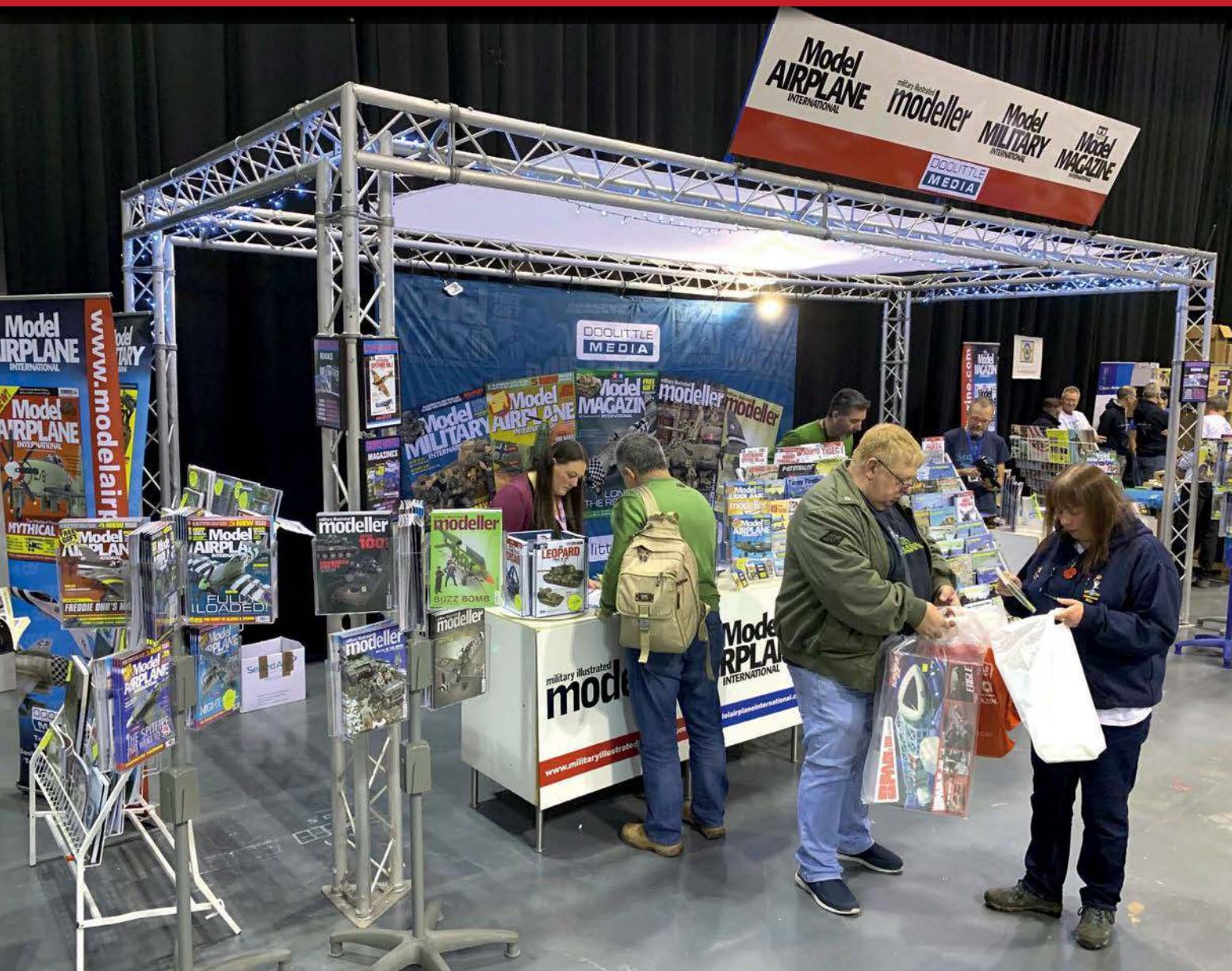
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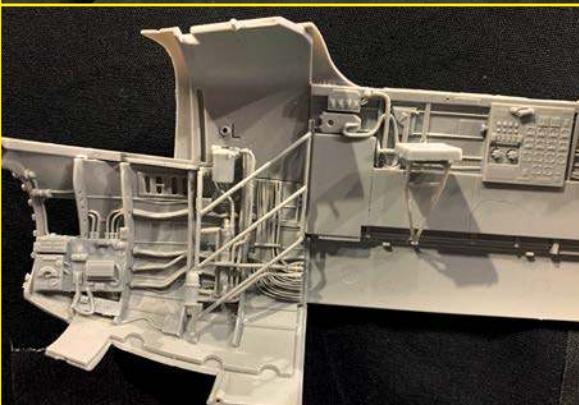


SCALE MODELWORLD TELFORD 2019

Tamiya Model Magazine reports from the 2019
Scale Modelworld show held in Telford, UK

Scale Modelworld is arguably the largest international scale modelling event of the year and there are always hundreds (maybe thousands) of fantastic models on show, in both the competition area and on the club stands. As always, Tamiya Model Magazine was there and over the next few pages you can see some of the models that caught our eye. Whether you build aircraft, cars, armour, ships, bikes, trucks or science-fiction, there was something for everyone to enjoy! ●

Book early for next year!
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scale-modelworld-2020](http://www.ipmsuk.org/calendar/scale-modelworld-2020)

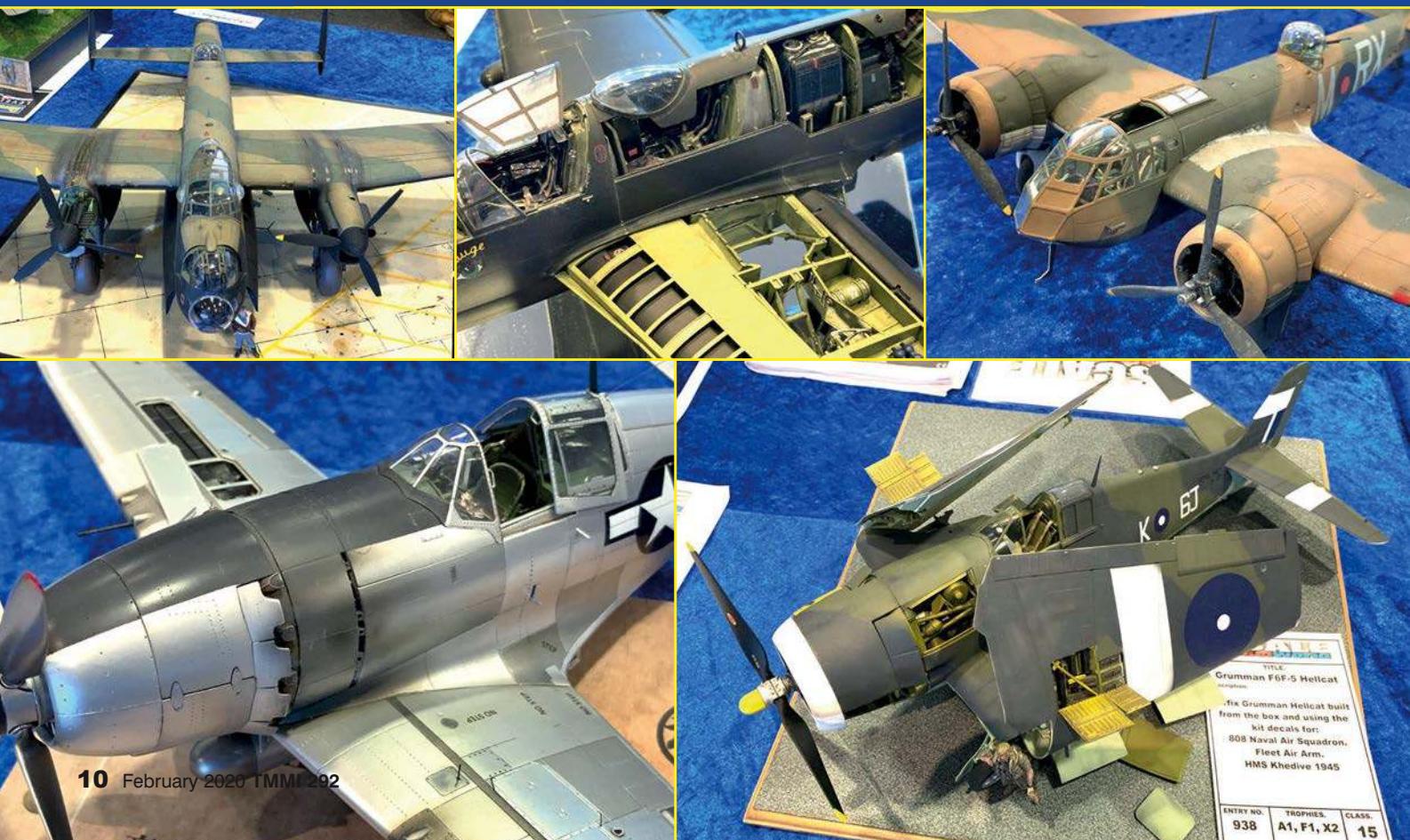


NEWS DESK EXTRA: UK MODEL SHOW

SCALE MODELWORLD 2019 TELFORD



“Revell’s new 1:24 Land-Rover looked superb...”





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NEWS DESK EXTRA: UK MODEL SHOW

SCALE MODELWORLD 2019 TELFORD



“Tamiya’s UK importer showed off the new Pz.38(t), P-38 Lightning and more...”







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LEVEL 4


04952 Airbus A321neo, 1:144

LEVEL 4


05690 Gift Set - Harrier GR.1 50th Anniversary, 1:32

LEVEL 3


07047 Land Rover Series III LWB, 1:24

LEVEL 5


05199 Queen Mary 2 (Platinum Edition), 1:400

Available from all good model stockists and online from

hobbycraft

hobbycraft.co.uk/brand/revell

TMMI 292 February 2020 **13**

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 FAIREY SWORDFISH MK.II • KIT NO.61099

BACK TO THE WORKBENCH WITH A STRINGBA



BENCH BAG!

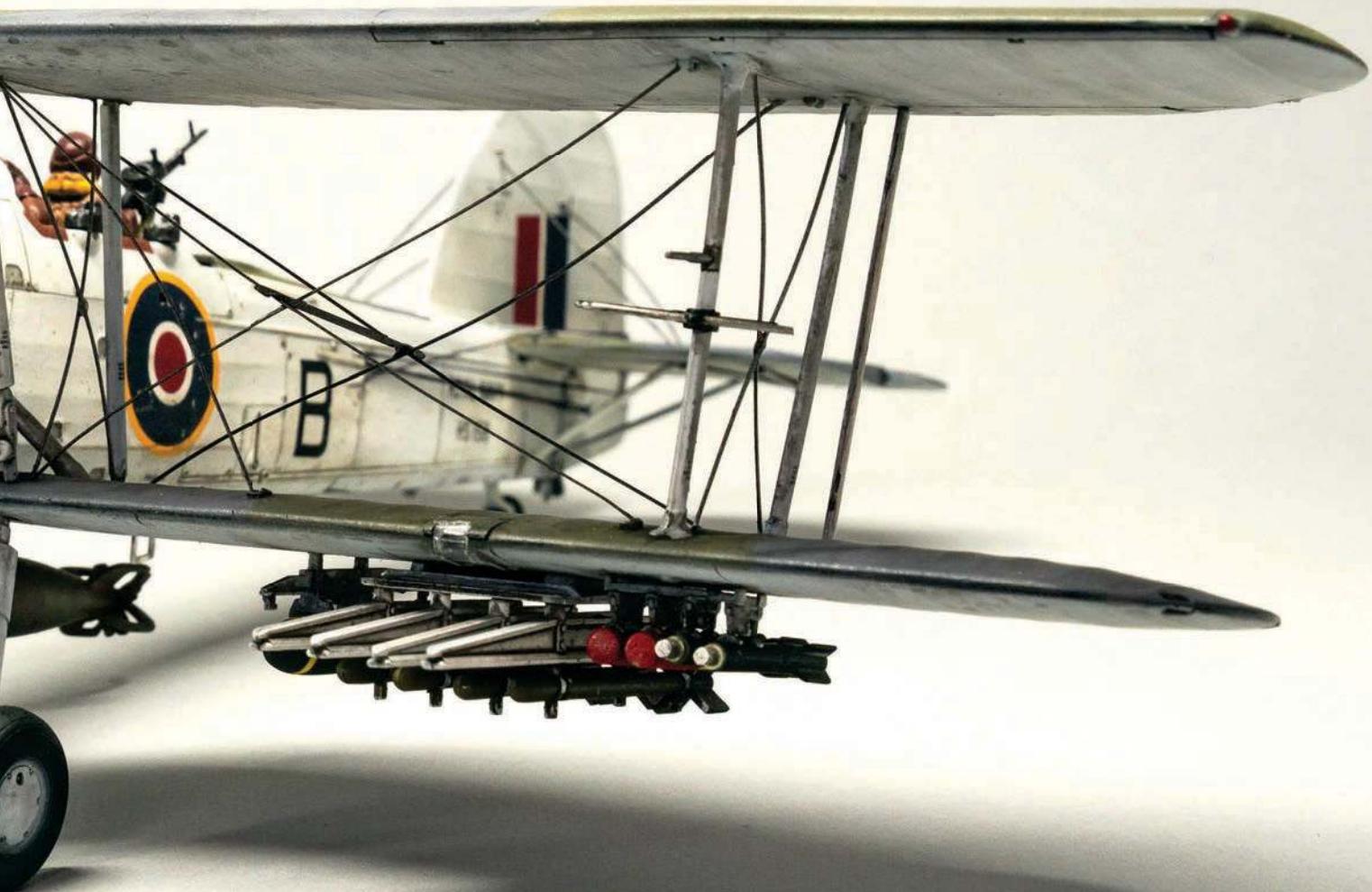
As a highly successful film and TV stills-photographer, **Steffan Hill** doesn't get a lot of time at the model bench. His recent return to modelling sees him tackling Tamiya's magnificent Fairey Swordfish Mk.II

I can be quite an impulsive chap. Sometimes, after staring at my stash for hours, trying to work out what to build next, all it takes is one quick seductive glance at some beautiful box art from a kit I didn't know about, and bam!, plans are cast aside, credit card is out and the kit is heading its way to me. And so it was with Tamiya's 1:48 Fairey Swordfish Mk.II.

Biplanes had never really been on my radar and after getting back into the hobby after a thirty-five year break, my main focus had been building AFVs. But as soon as I checked a review of the kit I was in, hook, line and sinker. When you think of the Second World War, biplanes are probably the last thing you would associate with any air force at that time. It's normally all

about Spits, '109s and Mustangs, but the 'Stringbag' as it was affectionately known by its crews as it could carry masses of ordinance, held its own when it came to anti-submarine missions and racked up a tally of twenty U-boats sunk during the course of the war.

I usually have no problem with building out of the box, but in this instance quickly decided to buy Tamiya's additional photo-etch bracing wire set, as I considered it a must. It also includes torpedo aiming sites and a radial section of the engine. Looking through the three marking-options with this build I decided to go for option B, as I thought the mixture of white fuselage and camouflaged upper wings looked very cool and could be weathered quite nicely. ➤



FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 FAIREY SWORDFISH MK.II • KIT NO.61099

INTO THE 'OFFICE'

First up is construction of the three-man cockpit, the floor of which was painted with Tamiya XF-71 Cockpit Green and weathered with Tamiya Brown Panel Line Accent Color, before adding the sides and the top and weathering the same. I also painted the radio and machine gun in XF-69 Nato Black and drybrushed with some X-11 Chrome to give a worn look. As usual most of this detail will be covered up, but I'll admit there is a certain satisfaction from detailing cockpits and if anything, it helps me understand the overall engineering of an aircraft. I didn't add the seatbelt decals, as I wanted to have the crew in situ. It's one of the things I really like about Tamiya compared to a lot of other model companies. They always include figures, which in my opinion always add a sense of scale and drama to a model, even without a diorama.

Next up I tackled the figures, which were airbrushed with a base of XF-64 Red Brown and then hand-painted with the same colours recommended in the instructions except for the faces for which I used Vallejo Panzer Aces's Flesh Base, Shadows and Highlight, diluted with water. Figure painting is one of my weakest areas, and I'm sure a lot of modellers can relate to this too, as it's a real art in itself. The eyes? My god the eyes look awful anytime I try them, so I tend not to bother at this scale and use a quick cheat which I picked up from a YouTube video to add a wash of Citadel Agrax Earthshade, letting it flow into the shadow areas, it really looks a treat if your painting skills are not at Boss level like mine aren't!

As I'm on the subject, being a novice, two of the biggest helps I find are YouTube tutorials and Facebook groups. I have become strangely addicted to watching other modellers building processes, some of which can be truly inspirational. I won't list my favourite channels here as I'm sure anybody reading this will have come across them for themselves as well.

Facebook groups, on the other hand, I find can be a bit of a minefield as there's so many out there, and all with their own ethos which can differ wildly from group to group, but I'm sure like me, you will eventually find the one which suits you best. What I love about these groups the best is being able to ask a question and get an informed answer (most of the time!), almost immediately, when ever I am stuck on a problem.

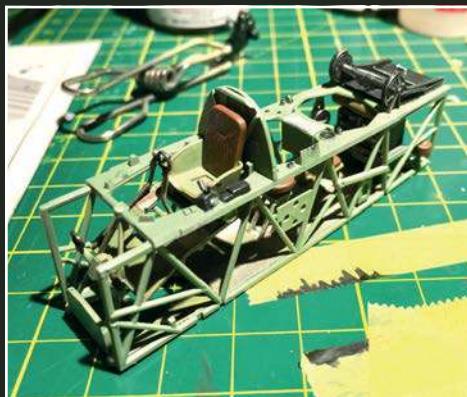
OK, I'm digressing a bit, so back to the build. I painted the fuselage on the sprues, using cockpit green for the metal parts and XF-64 Red Brown over sprayed with XF-59 Desert Yellow for the canvas sections, and punched holes through the relevant parts using the special photo etch tool supplied for the braces.



The cockpit floor with elevation pilot's seat and radio set visible



The fuselage interior walls have been painted XF-71 Cockpit Green, with natural wood-coloured areas in the lower section



A miniature 'walk-around' of the assembled cockpit module shows how much detail is crammed in here. Of note is the 'U' shaped mount for the Vickers K machine gun, painted metallic grey



The author wasn't happy with the kit-suggested paint recipe for the exhaust ring, so he mixed his own colour for a darker, more metallic shade for this heat-stained structure



The crew figures in Tamiya's Swordfish are fantastic and really add life to the model. The author painted the bodies via airbrush, finishing their faces by hand with Vallejo Panzer Aces acrylics

A SLIGHT MISTAKE..

This is where I messed up with something that would come back to bite me down the line. The holes are necessary so you can attach the braces when the build is complete, I didn't make them big enough, and had real difficulty lining up the wires so they didn't bow in the middle. Try as I might, I just couldn't get them straight enough to be really pleased with them, but we live and learn, and considering this was my second ever build of an aircraft, I can live with that and learn from it.

Something else I should have done here was mask the two windows before installing them, as they are easy to push through from the outside as I used PVA glue so as not to mist them up and the bond is not that strong. Again I'm learning from my mistakes...

I closed the fuselage up, and then had to face my demons when it comes to aircraft, the dreaded ghost seam. The first ever aircraft build was a 1:32 Revell Spitfire, and I just didn't get the seams right, so I was determined to do a better job this time around. My method on this occasion was to apply excess glue, not the thin stuff I usually use but the standard Tamiya white top, which is a lot thicker. My plan was to have a little of the plastic ooze out from the seam which I could then sand away and be left with a perfect join. You need to be really careful not to apply too much excess glue, but just enough to bubble out slightly. It worked better on the wings for me, but when I sanded the fuselage and spot primed along the seam, there it was, a lovely ghost seam staring back at me. After consulting

Facebook hive, I came up with a plan of action, using a bit of sprue glue for the first time, which I sanded back but still wasn't happy with. Next up was trying Mr Surfacer 500 hand brushed over the seam and sanded back and repeated, over and over until I was happy with the result.

Tamiya has a well-deserved reputation for clever engineering and ease of construction and for the most part this was true. The only time I came unstuck with regard to this was with parts A19, A23 and A18, which are a section of the forward upper fuselage and support for the upper wings. I just could not get it to fit flush in the main part of the fuselage. I resorted to some radical sanding to get it to fit, but this left me with some gap filling to deal with, which is fine, but for the life of me I still can't work out why it was necessary in the first place.

WHICH COLOUR FOR THE COWLING?

The engine construction was next, which presented no problems, painted black and drybrushed with chrome. The engine cowling was another matter. The instructions call out for the front of the cowling

to be painted a mix of XF-56 Metallic Grey and XF-7 Flat Red, with a brass band in the middle and then black and white as per the rest of the fuselage for the rear section. I wasn't happy with this colour, so asked the Hive again for help and the considered decision was that it should be a darker metallic tone, I then sprayed the whole front cowling with brass, masked off the centre band and airbrushed a mixture 50:50 H406 Mr Hobby Chocolate Brown and XF-69 Nato Black with some drops of H76 Mr Hobby Burnt Iron. ▶



The author came a little unstuck with the upper cowl area, where he experienced some unexpected difficulties. Some sanding and test-fitting corrected the issue

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 FAIREY SWORDFISH MK.II • KIT NO.61099



A pre-shading 'marbling' effect was used prior to the top colours being applied, which creates a natural-looking faded effect in the final finish



Using a photocopy of the painting template supplied in the kit, the author trimmed out the camouflage patterns and tacked them in place using spray adhesive



Here, the Tamiya Acrylic XF-81 RAF Dark Green is being airbrushed over the previously applied XF-54 Dark Sea Grey

With the paper templates peeled away, we can observe the realistic effect



The white-painted areas of the fuselage have been masked off here (with pink tape) ready for the camouflage application



All four upper wing surfaces, horizontal stabilisers and upper fuselage have all received their grey/green finish and are ready for further weathering

I had decided to paint the wings and fuselage separately as trying to airbrush when fitted would have been very tricky to say the least. For this build I wanted to try the black-basing technique for the first time. My airbrushing skills are fairly mediocre and it took me a while to get the right combination of pressure (low), thinner (lots) and white paint. After my first pass, I wasn't happy so went over it again with more defined marbling, and bingo, I think I had a winner, and FB Hive feedback reassured me. Tamiya supply a painting mask with this kit, so I photocopied it, sprayed a light coat of 3M Spray Mount on the back and carefully cut out the pattern. I was sure to de-stick the cut outs a bit like you would do with masking tape so it didn't stick to the paint too much and lift it off when removing.

CAMO COLOURS

Then the camouflage colours were applied, XF-81 RAF Dark Green and XF-54 Dark Sea Grey making sure the marbling is just about visible below the top layer of paint. This, as it turns out, is really quite difficult, judging when you have just enough blend coat so as not to ruin all your previous time spent marbling. I masked off the camouflage sections and continued to spray very thin coats of white for the fuselage. Then I attached the wings and started trying to rig the bracing wires. Two weeks went by and I was still trying to attach the wires without throwing the whole build in the bin!

As mentioned earlier, I didn't make the locating holes big enough and created a rod for my back in the process. Still after a while I got to a point, which although not entirely perfect, I was happy with.

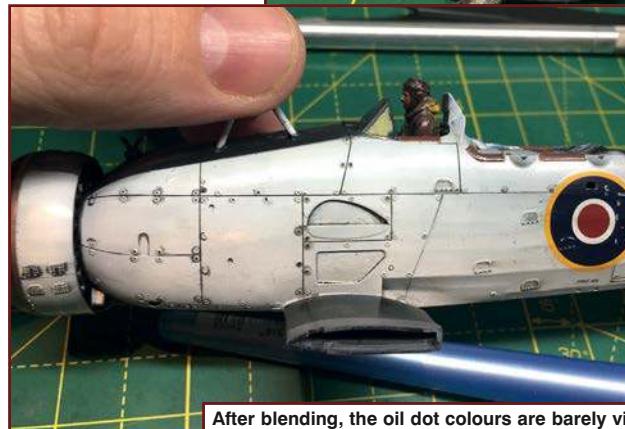
Decals were applied and a gloss coat applied to protect everything. The 'Stringbag' was finally looking the part. Then it was onto the oils, again a first for me, and somewhat of an unknown quantity. For the wings I stuck with Lamp Black and Burnt Umber. I decided to try a multi-coloured dot filter on the fuselage. As I'm not very confident with oils, it's a great medium to use, as mistakes can literally be wiped away. A pin-wash was applied with Tamiya Black Panel Line Accent Color and then everything was sealed with a matt coat of varnish. As a finishing touch, using a cocktail stick and stiff brush I added some general splashes of black and brown panel liner, mostly under the wings and fuselage, some



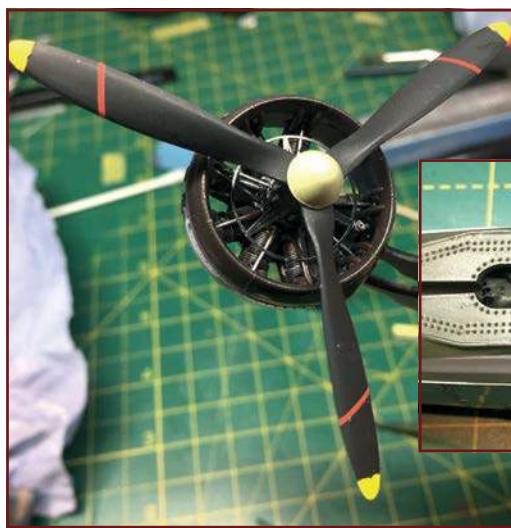
Streaked oil paints help suggest wear and tear on the wings and tone down the colours too



The 'oil paint dot' technique consists of placing tiny amounts of oil paints directly to the model's surface, then blending them in to form a weathered, discoloured effect



After blending, the oil dot colours are barely visible, but add greatly to the general dirtying-down of the model



The prop has been painted and fitted to the engine, itself encased in the cowling/exhaust collector



Blu-Tack and paper were employed to seal off the cockpit during the exterior painting, weathering and varnishing processes

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

TAMIYA 1:48 FAIREY SWORDFISH MK.II • KIT NO.61099



● EZ line was used for the external control cables and some Uschi van der Rosten medium for the radio antenna and the ordinance was attached.

All in all I loved this build and was very pleased with the outcome. As mentioned earlier this was only my second ever aircraft build, so a lot of mistakes were made a lot of things were learned and lots of fun was had! ●

TECHSPEC...

TAMIYA 1:48 FAIREY SWORDFISH MK.II KIT NO.61099

Materials;

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

Painting and Weathering;

- Tamiya XF-71 Cockpit Green, XF-69 Nato Black, XF-59 Desert Yellow, X-11 Chrome, XF-64 Red Brown, XF-81 RAF Dark Green, XF-54 Dark Sea Grey, XF-56 Metallic Grey, XF-7 Flat Red
- Tamiya Panel Line Accent Color Black, Brown

- Vallejo Panzer Aces: Flesh Base, Shadows and Highlight

- Mr Hobby H406 Mr Hobby Chocolate Brown, H76 Mr Hobby Burnt Iron

- Citadel: Agrax Earthshade

Availability;

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



www.creativemodels.co.uk



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Oliver Peissl joins TMMI with his superb build of Eduard's 1:48 Tempest Mk.V Series II, fitting Eduard's Brassin cockpit, landing gear, exhaust pipes and 'Löök' instrument panel for good measure!

HAWKER'S HUNTER

Originally intended to serve as an interceptor, the Hawker Typhoon was not really up to this mission and was therefore quickly re-assigned as a fighter-bomber, this time with much more success. Sir Sidney Camm, chief designer of Hawker Aircraft, soon abandoned efforts to improve the Typhoon and opted for a completely new design, completed in October

1941. Originally, it was called Typhoon Mk. II, but it was soon renamed because subsequent developments resulted in a heavily modified aircraft, the most important innovation being its thin, elliptical wings.

The first flight of the Tempest prototype was carried out by PG Lucas on September 2nd, 1942. Originally, the RAF ordered 400 Tempest Mk.I equipped with the Sabre IV engine.

Due to manufacturing problems, the first engines were not delivered until February 1943 and mass production was not expected until around the middle of the following year. Camm then decided to produce the aircraft with a Sabre IIb replacement engine. For this reason, the aircraft was renamed 'Tempest Mk.V' and began to roll off the assembly lines from June 1943.

Used as a fighter and fighter-bomber, the Tempest Mk.V proved to be one of the fastest propeller combat aircraft of WW2 at low and medium altitudes. This is why it was mainly used against the Me262 and the V1 'vengeance' weapon. In addition to seven hundred flying bombs, RAF units equipped with this type were able to shoot down at least twenty Me262s as well as one He162.



The resin parts of the cockpit and the internal parts of the fuselage were painted in Grey-Green Mr. colour 364 and in dark grey, here the RLM 66 Gunze H416



OVERHAUL

Until 2019, the Hawker Tempest was a subject rather dreaded by enthusiasts of WW2 planes in 1:48. The former Eduard kit was indeed one of the first productions from this Czech manufacturer and, therefore, far from the brand's current standards. The release of an 'upgraded' reissue in 2011 (with new transparent parts, resin and reworked photo-etch as well as a new sheet of decals) did little to settle the matter, the model remaining imperfect, both in its dimensions and its overall form. At the level of the tail in particular

important errors remained. Eight years later, Eduard has released not one, but two entirely new kits of this famous British hunter, for the Series I and Series II. The kit for the late version – the subject of this article – also contains external tanks and a corrected propeller spinner. I also used the cockpit, landing gear, Brassin exhaust pipes and the Löök dashboard specially designed for the model.

OFF THE BEATEN TRACK

The Hawker Tempest evokes for many the V1 fighter of the Air Defence of Great Britain (ADGB) or perhaps the most successful

French fighter pilot of WW2, Pierre Clostermann. Those who know me, however, appreciate that I prefer to reproduce models with

unusual markings, so I opted for a machine used both for defence against buzz-bombs and one that took part in the last fights in Belgium ➤



The cockpit, once closed, will no longer reveal much. This is why the colours were deliberately exaggerated and the basic shades lightened, especially on the raised parts

FULL-BUILD: WORLD WAR TWO ALLIED AVIATION

EDUARD 1:48 HAWKER TEMPEST MK.V SERIES II • KIT NO.82122

and the Netherlands. The aircraft was thus given D-Day invasion bands under the fuselage but also V1 kill-marks in front of the cockpit.

The Brassin cockpit is, to coin a phrase, a model within the model; with more than fifty-five parts in resin and eighteen in photo-etch, it is certainly the most complex of the Brassin series that I have installed so far. Some experience in the use of resin is necessary, because the parts are extremely fragile and, even assembled, they can still break easily.

In terms of colour, the Tempest cockpit is divided into two parts: Grey-Green for the lower zone and black for the upper zone. In a small scale, the dark part of the cockpit absorbs a lot of light and due to the convex shape of the upper cockpit, it 'engulfs' every detail. For this reason, the lower components of the cockpit were painted as shown, but in the upper areas I used dark grey (ironically, RLM66), not black. The same applied to the interior of the half-fuselage and the other components concerned. In order to reproduce light and shadow effects, I used a Mig Productions colour-wash for the lightly coloured base shades. It looks exaggerated at first, but once the fuselage is closed, it is barely discernible. The lateral parts of the tubular structure must be worked with great care, because they are very fragile. These consist of several parts and must be painted different colours for accuracy.

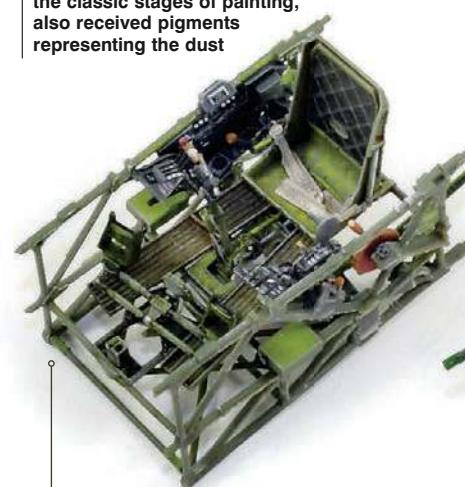
The first step in assembling the cockpit parts consolidates the sub-assembly and confirms in advance that the detailed work carried out on each component was worth it. Once all the parts of the lower section of the cockpit have been assembled, this part is ready to be installed in the fuselage. The dashboard of Eduard's 'Löök' series was been completed by a touch-up with Vallejo acrylic paints, adding the data placard notes often seen on instrument panels. A gunsight with its base, a back armour plate and



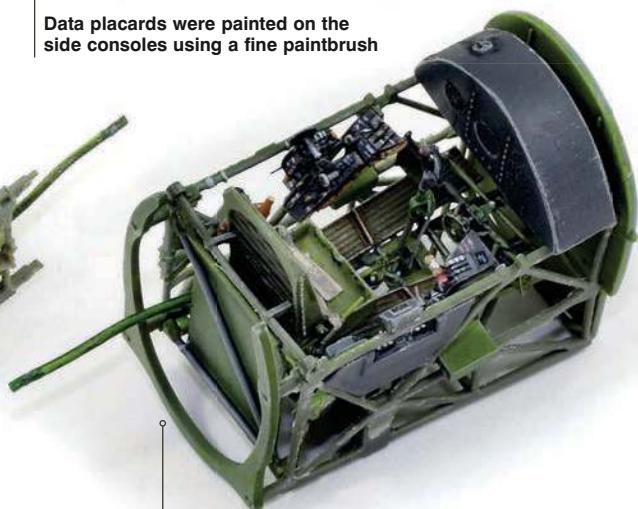
The central part, in addition to the classic stages of painting, also received pigments representing the dust



Data placards were painted on the side consoles using a fine paintbrush



The harnesses attached to the seat were made from photo-cut parts. The top straps will be added at the end



The Brassin cockpit, here shortly before its installation in the fuselage. Unfortunately, we will not see much more on the finished model

various small parts were finally added to the upper part of the cockpit, before insertion into the fuselage. Beforehand I had opened up the small access hatch in which the pilot placed his hand during boarding.



The already very detailed Löök dashboard was improved with Vallejo shades. Data panels were added, often seen on aircraft instrument panels at the time

GUN BAY

Once the fuselage was assembled and the joint lines filled and sanded, it was time for the wings. For the undercarriage bays, no additional work is necessary in my opinion because they are already very detailed, with more than ten parts on each side; only various hydraulic lines of different sizes were added. In order

to visually break up the monotony of the camouflage pattern, I installed the Brassin gun-bay. Opened up, it will add a little life to an otherwise featureless upper wing. I deliberately did not follow the assembly instructions for the set; according to them, the insert must first be assembled and then glued into the opening previously made ◀



A small detail not to be overlooked: the handle to enter the cockpit. The author opened it up before assembling the half-fuselages



Another important detail on the prominent Tempest chin: the air intake grille. It is essential to use the images of the original for comparison, since there were different air intakes on the Tempest

plusmodel

1/48

AL4089
Crew F-14 Tomcat

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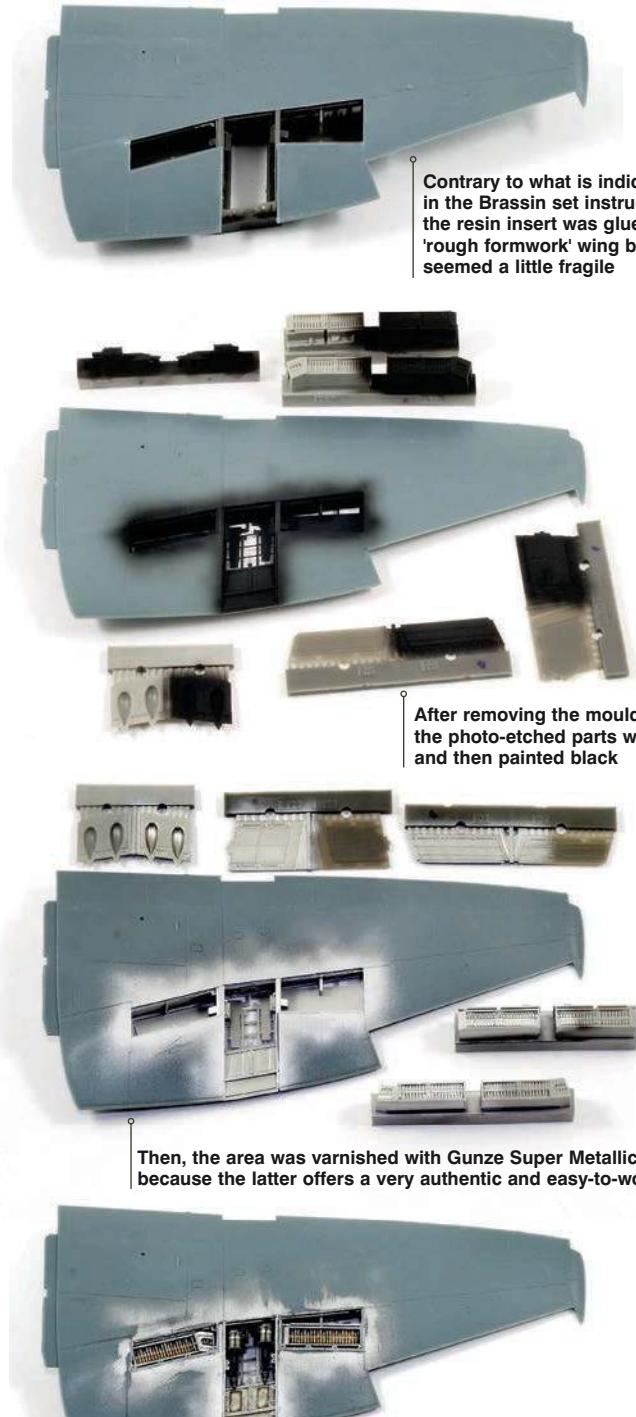
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HAULER HO (1/87)
HLR87200 NSVT 12,7mm tank heavy machine gun
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The detail painting was carried out with Vallejo paints (Copper, White, Red and Brown). Highlights and shading were obtained with light grey and dirt added with diluted oil paint

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EDUARD 1:48 HAWKER TEMPEST MK.V SERIES II • KIT NO.82122

in the wing. However, I preferred to install the main part first, including its moulded core, to give the assembly better stability. Adjustments could then be made, without taking care of the details. Once the excess resin had been removed, the photo-etched parts could be glued without fear and the entire area painted black. The colour was overall aluminium, although there does not seem to be unanimity on this metallic shade, or simply grey.

AIRFRAME

The fuselage-to-wing union required the use of putty, not only at the leading edge, but also at the underside of the wings. As in the Bf109F-G series, the Tempest has at the centre of the fuselage an ugly junction line requiring the use of filler. After filling, as with any other assembly, I systematically check the condition of the surfaces of the model in order to eliminate the smallest imperfections that always appear here and there. Before painting, I now use the new Eduard 'T-Face' mask series, which includes self-adhesive templates for the exterior and interior of the transparent parts. These were painted, like the upper part of the cockpit, in RLM66, then weathered. After cementing the fixed part and sliding parts of the canopy, the cockpit opening as well as that of the armament bay were sealed off in preparation for airbrush painting.



PAINTING

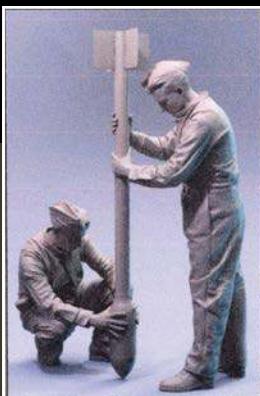
Once I was sure of the surface condition, pre-shading could begin. For this I use white or light grey in the sheet metal joints and on the maintenance hatches. On the other hand, a dark or black tone is preferred along the structure lines to obtain the first nuances even before the application of the basic shades of camouflage. The fuselage and D-Day

stripes were then painted and then sealed off with Tamiya masking tape. On the lower surfaces, I used Mr Hobby H335 (Medium Sea Grey) while the upper surfaces were painted with Mr Hobby H73 (Dark Green) and Mr Hobby 362 (Ocean Grey). These colours were then shaded with lightened mixes; the Ocean Grey with H305 (FS36118), the dark green with H405 and

the underside with H307. All paintwork was done freehand using a Harder & Steenbeck Evolution Silverline airbrush with a 0.15mm nozzle, whose diameter makes it possible to correctly represent the colour boundaries. An alternative is to mask, but I prefer freehand painting.

The model, now in its basic colours, was set aside for twenty-four hours to allow

Mini Review...



BARRACUDA STUDIOS 1:24 RAF GROUNDCREW ASSEMBLING 3" ROCKET (BR24217)
www.barracudacast.com



If you have been working on Airfix's magnificent 1:24 Hawker Typhoon kits, these two figures will provide the perfect scene-setter for your display. They depict a pair of ground crew preparing a 3", 60lb HE rocket which were slung underwing on the aircraft, for the ground attack role. The figures are beautifully sculpted in very natural-looking poses, with fabulous detail and flawless casting. Even if you don't have the Typhoon kit, they would make a nice vignette on their own.



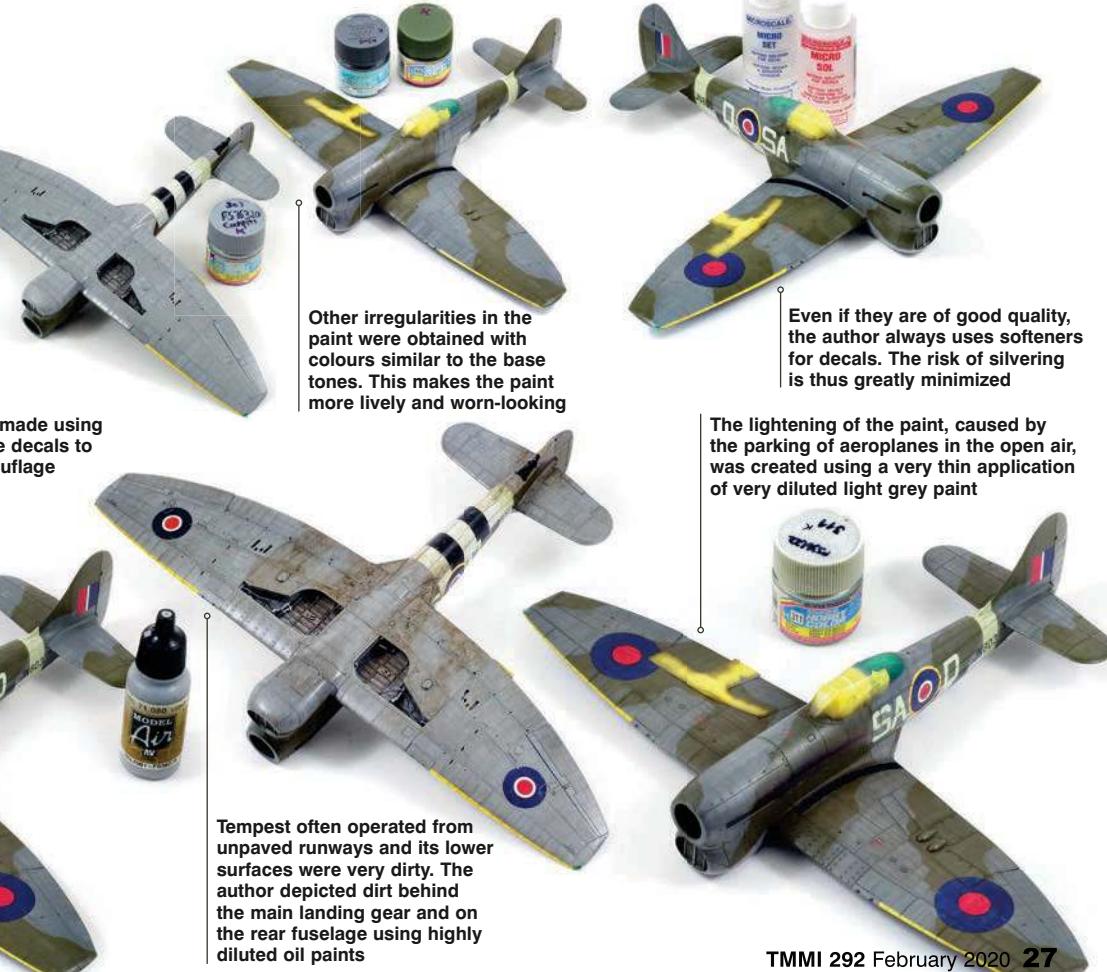
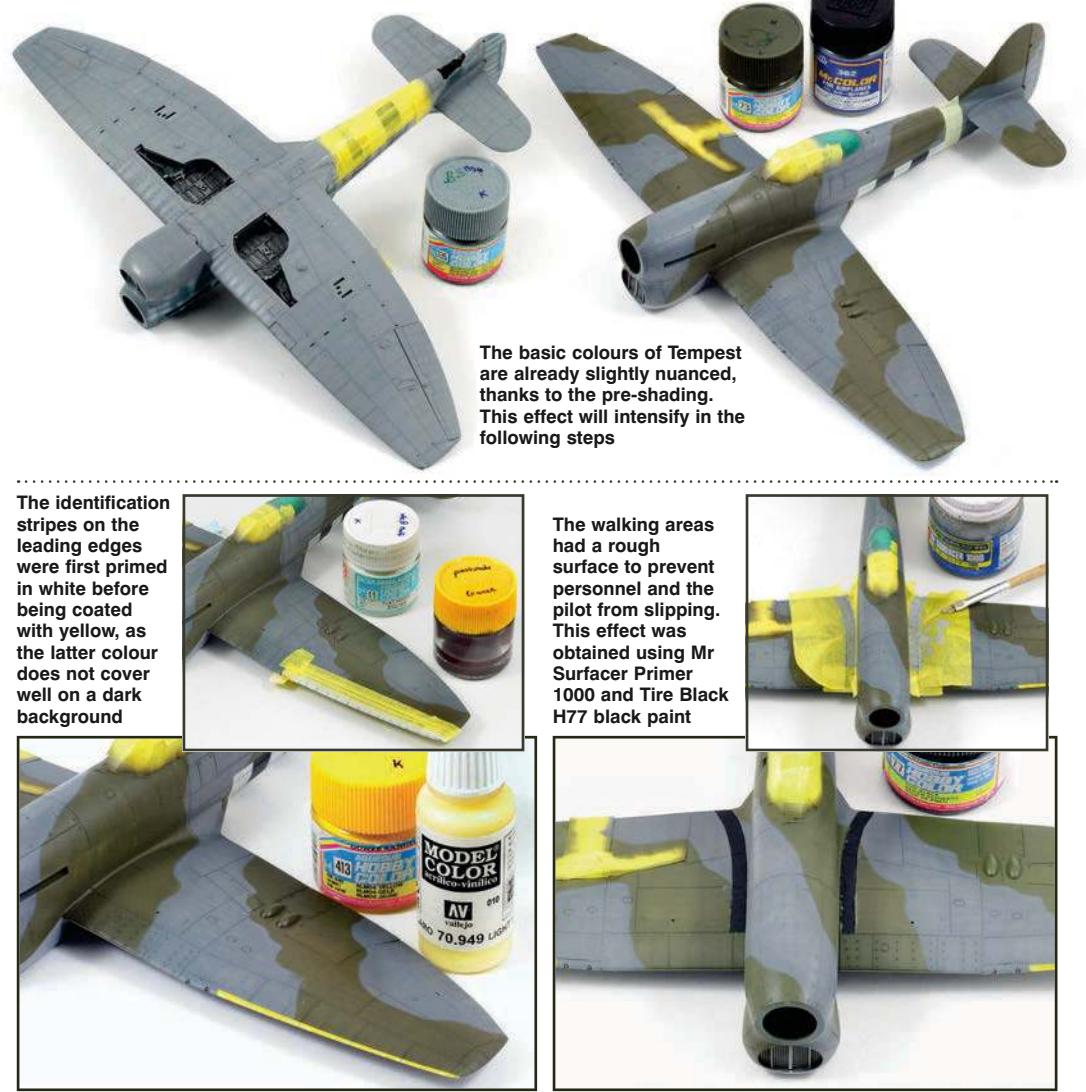
the paint to dry completely for the next stages of weathering. Indeed, the latter could attack the cemented joints which were not yet fully cured and even possibly dissolve them. To prepare the surface for the application of the decals, I use Mr. Metal Primer by Mr Hobby. This is naturally compatible with the brand's paints and has the advantage, like 'Future' polish of being gloss.

The decals provided work very well but it is better to use a little softener to avoid silvering. Before the markings were sealed in, they were lightly toned down with Vallejo paints in order to adapt them to the rest of the model and reproduce a worn effect. To protect the decals, I used Mr Hobby satin varnish, so that the subsequent colour-washed – using highly diluted oil paints – would not bead on the surface.

WEATHERING

To simulate the dusty appearance of the lower surfaces due to the use of aircraft on unpaved runways, diluted oil paint was applied in several layers and slightly faded after a day of drying. On the upper surfaces, a first 'filter' was applied using very diluted dark brown oil paint: it is important that this effect is progressive on the wings. The further out you go on the wings, the more you have to exercise restraint, because most of the dirt and streaks form at the junction with the fuselage. ▶

The first scratches in the paint were made using Vallejo paints and a fine brush on the decals to blend them with the rest of the camouflage



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FINAL PARTS

The Brassin bronze undercarriage legs were completed with resin wheels from the same range. The exhausts are also additions from the Eduard brand, better detailed than the original ones. Painted and patinated according to the instructions, the installation of these elements concludes the assembly of a very pleasant model to build. Since I had the improved Series I Tempest spinner, I used it on this model. Another advantage of this kit lies in the presence of additional transparent plastic tanks, because the pylons were actually translucent in reality. This detail has never before been taken into account in a Tempest kit, one more reason to present the model with these tanks installed.

CONCLUSION

Compared to the previous Eduard Tempest model, even improved with the AlleyCat correction set, this new kit is an absolute quantum leap! However, even with a new kit, as good as it is, a little dexterity and experience is necessary. The model itself constitutes a first-rate investment and forms the basis of a very beautiful model for any display case. Eduard has once again demonstrated that they are currently one of the best manufacturers of injection-moulded plastic aircraft models and in my opinion the best in terms of resin parts. Bravo and thank you! ●

TECH SPEC...

EDUARD 1:48 HAWKER TEMPEST MK.V SERIES II KIT NO.82122

Materials:

Injection-moulded polystyrene, photo-etched metal, pre-cut masks, waterslide decals

Accessories used:

- Eduard Brassin: Cockpit (648416), gun bay (648419), Bronze UC legs (648446), Exhaust manifolds (648418)
- Eduard Löök: instrument panel (644006)

Paints used:

- Mr Hobby H73 (Dark Green), 362 (Ocean Grey), H335 (Medium Sea Grey),
- H305 (Grey FS36118), H405 (Olive Green), H307 (Grey FS36320)

References:

- 4+ Publication: Hawker Tempest, B. Robertson, E. Quenardel & N. Lopata
- Dalrymple & Verdun Publishing: Tempest, Tony Buttler
- Valiant Wings Publishing: The Hawker Tempest, Richards A. Franks
- Squadron Signal publications: Typhoon/Tempest In Action, Jerry Scutts (www.doolittlemedia.com)

Availability:

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



Other signs of wear, in particular at maintenance points, were simulated by the use of highly diluted oil paints



All the details such as the landing gear, the access ladder, the exhausts, the additional tanks and the propeller were also weathered in the same way as the rest of the model



The upper harness straps were created from an HGW part for a Spitfire. Their positioning outside the cockpit is another point of interest for the model



The exhaust stains were created using several coats of paint. The light grey, reddish brown, dark brown and black coats were applied very thinly on top of each other

Eikō

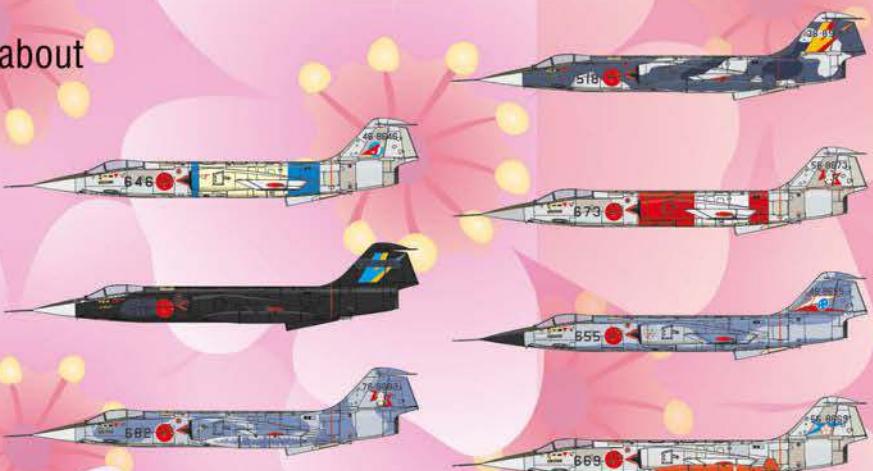
榮光



F-104J in JASDF service

- Hasegawa plastic parts
- Eduard Brassin seat
- Photo-etched details and painting mask
- 8 marking options
- Photographic book about F-104J & DJ Eikō

1/48



Limited Edition

January 2020, Cat. No. 11130 @ www.eduard.com

eduard

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR
TAMIYA 1:35 PANZERKAMPFWAGEN 38(T)E/F • KIT NO.35369

BARBAROSSA BATTLEWAGON

Sungjun Jang has built Tamiya's 1:35 new 1:35 Panzerkampfwagen 38(t) Ausf.E/F and brings us some photos of his completed model





The Panzerkampfwagen 38(t) – originally known as the CKD LT vz. 38 – was designed during the 1930s and it saw extensive service during World War II. Developed in Czechoslovakia by CKD, the tank was adopted by Nazi Germany following the annexation of Czechoslovakia. With the German Army and other Axis forces, the Pz.38(t) was deployed during the invasions of Poland, France and the USSR. Production ended in 1942, when its main armament was deemed inadequate. In all, over 1,400 Pz.38(t)s were manufactured. Adapted variations of the chassis continued to be produced for the Marder III (1942–1944) with some of its components used in the later Jagdpanzer 38 'Hetz' tank destroyers and its derivative vehicles.

The (t) stands for 'tschechisch', the German word for Czech; the Czechoslovak military designation was LT vz. 38 (Lehký tank vzor 38, Light Tank model 38). Manufacturer's designations included TNH series, TNHPS, LTP and LTH. The special vehicle designation for the tank in Germany was Sd.Kfz.140. The Pz.38(t) was used by Nazi Germany, Romania, Bulgaria, Hungary, Slovak Republic, Sweden, Switzerland, Peru and Iran.

The Panzer 38(t) was a conventional inter-war tank design, with riveted armour. The armour varied in thickness from 10mm to 25mm in most versions. Later models (Ausf.E on) increased this to 50mm by bolting on an additional 25mm armour plate to the front portion of the hull. The sides received an additional 15mm increase of armour from Ausf. E production runs onward.

The two-man turret was centrally located and housed the tank's main armament, a 37mm Skoda A7 gun with ninety rounds of ammunition. In addition, a 7.92mm machine gun was located in a ball-mount to the right of the main gun. This machine gun could be trained on targets independently of the main gun, or coupled to the main gun for use as a conventional coaxial machine gun. The driver was in the front right of the hull, with the radio operator

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN 38(T)E/F ● KIT NO.35369

seated to the driver's left. The radio operator manned the hull-mounted 7.92mm machine gun in front in addition to operating the radio on his left.

Minor adjustments, such as adjustable seats for the driver and firmer footing for the commander/gunner and loader, were provided in German service. A total of 2,550 rounds were carried for the bow and turret machine guns. The driver could also fire the hull machine gun with a trigger fitted on the left tiller bar.

In German service, a loader's position was added to the turret by reducing the ammunition capacity by eighteen rounds. All future Panzer 38(t) tanks were rebuilt according to this specification and those

already in service were modified accordingly. The commander had to aim and fire the main gun in addition to his role as commander.

The engine was mounted in the rear of the hull and powered the tank through a transmission at the front of the hull with five forward gears and one reverse gear. The track ran under four rubber-tyred road wheels and back over a rear idler and two track return rollers. The wheels were mounted on a leaf-spring double-bogie mounted on two axles.

Armour:.....8–30mm (Ausf. A–D);
8–50mm (Ausf. E–G)
Crew:.....four
In service:..1939–1945 (Nazi Germany)
Speed:.....42km/h, (26mph) (road);
15km/h, (9mph) (off-road)

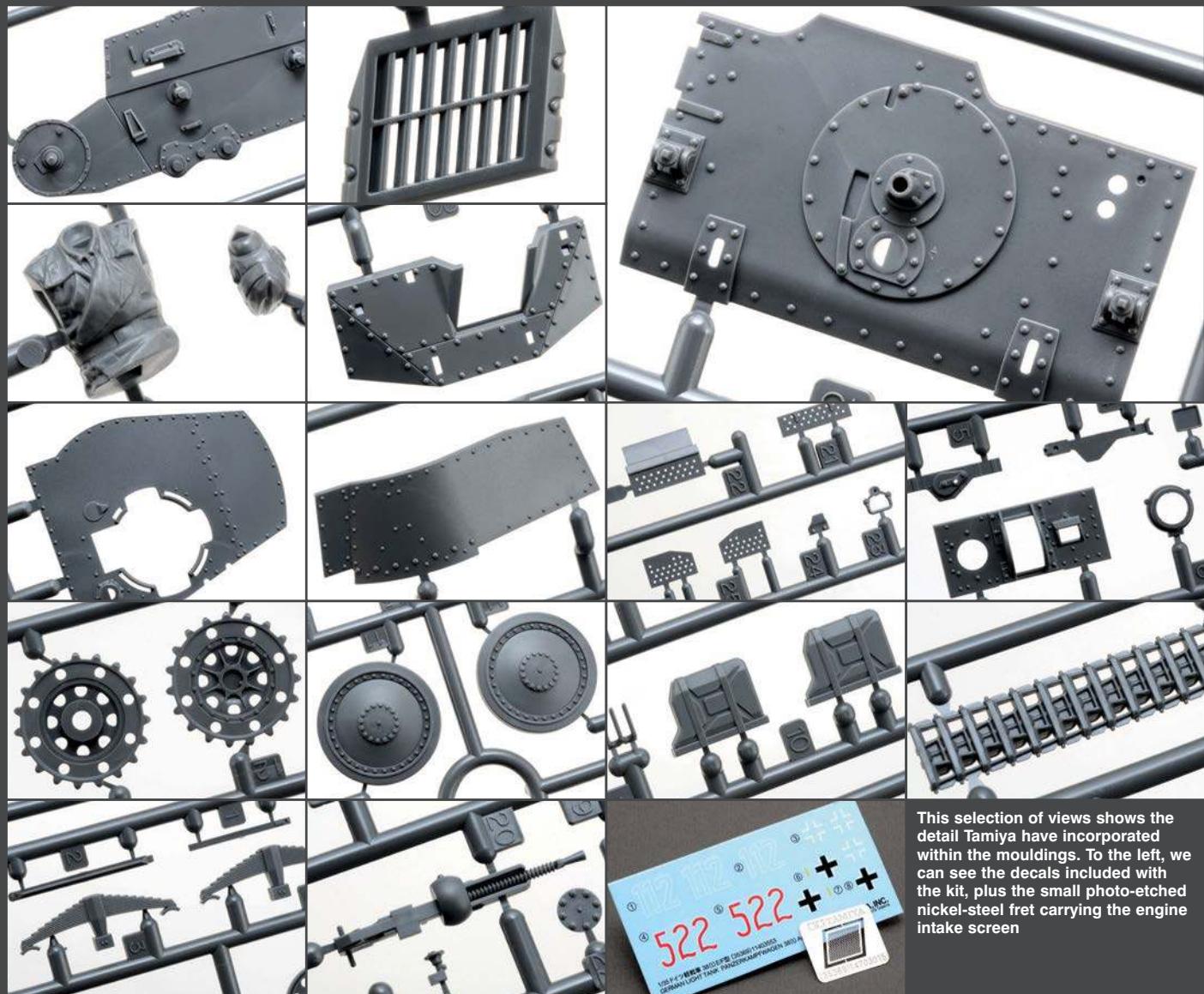
TAMIYA'S NEW 1:35 KIT

Tamiya have utilised some parts from the superb Sd.Kfz.139 Marder III kit, released in 2001. These cover the suspension arms, leaf springs, roadwheels, idlers and drive sprockets, but all else is new. The lower hull builds up from individual panels to allow the proper rendering of the rivets (and there's a lot of them) and the turret follows suit. The main gun comes with some breech detail as does the turret MG, but this is only really enough to satisfy the eye when one peers past the seated commander figure. Talking of which, he is one of the best tank crew figures we have seen in some while, looking very natural in the cupola. A photo-etched steel

grille is provided for the engine air intake, a neat touch.

The tracks come as link-and-length items and fit perfectly over the running gear, making assembly – if not painting and weathering – quick and relatively easy. Two markings-options are provided: 19th Panzer Division, Russia 1941 and 7th Panzer Division, Russia 1941–1942. Both are in overall panzer grey, of course. This is a fantastic new kit from Tamiya, offering ease of construction with fine detail and a superb commander figure who really adds life to the model. Expect a flurry of aftermarket up-detail parts for the model soon! ●

History: edited from Wikipedia



This selection of views shows the detail Tamiya have incorporated within the mouldings. To the left, we can see the decals included with the kit, plus the small photo-etched nickel-steel fret carrying the engine intake screen



Unwrapping the kit is the best part! The Pz.38(t)'s box is appropriately compact



In front of the assembled 1:35 Pz.38(t) sits Tamiya's 1:48 equivalent, released a few years back



The modeller's lair: we see the paint booth and shelves of paints...

“The seated commander figure... is one of the best tank crew figures we have seen in some while,”



An undercoat of dark brown has been applied to both the 1:35 and 1:48 Pz.38(t) models



Initially bright base-colours will soon succumb to the darkening effects of the weathering process

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN 38(T)E/F ● KIT NO.35369

This overhead view affords a look at the dust-covered horizontal surfaces



With some mud/dust-coloured pigments and a burnishing with graphite, the link-length tracks could pass for an articulated set





A heavy rust treatment was applied to the exhaust box using weathering pigments



The author chose to paint the tool box and a jerrycan in dark yellow; please note this is not strictly era-accurate for this early-war machine

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 PANZERKAMPFWAGEN 38(T)E/F ● KIT NO.35369



A: Head-on view showing the extensive use of rivets in the Pz.38(t)'s construction. Note the Notek light on the vehicle's left-hand side track-guard (BMM Factory photo Ausf F, Hilary Doyle, via Zack Sex)

B: Side view revealing the factory-standard pioneer tools and towing cable. Note the rear upper-run of track has a distinctive 'sag' (BMM Factory photo Ausf F, Hilary Doyle, via Zack Sex)

C: Even on this factory-fresh vehicle, the paint has started to burn off the exhaust box. (BMM Factory photo Ausf F, Hilary Doyle, via Zack Sex)

D: A Panzer 38(t) in France, June 1940. Some good details of crew uniform and stowage can be observed here. (Photo: Bundesarchiv, Bild 101I-769-0229-26/Borcher, Erich (Eric)/CC-BY-SA 3.0)

E: A column of Panzer 38(t)s of the 20th Panzer Division. (Photo: Hilary Doyle, via Zack Sex)

TECH SPEC...

TAMIYA 1:35 PANZERKAMPFWAGEN

38(t)E/F KIT NO.35369

Materials;

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

Availability;

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

The turret numbers and balkenkreuze come in the kit in the form of waterslide decals

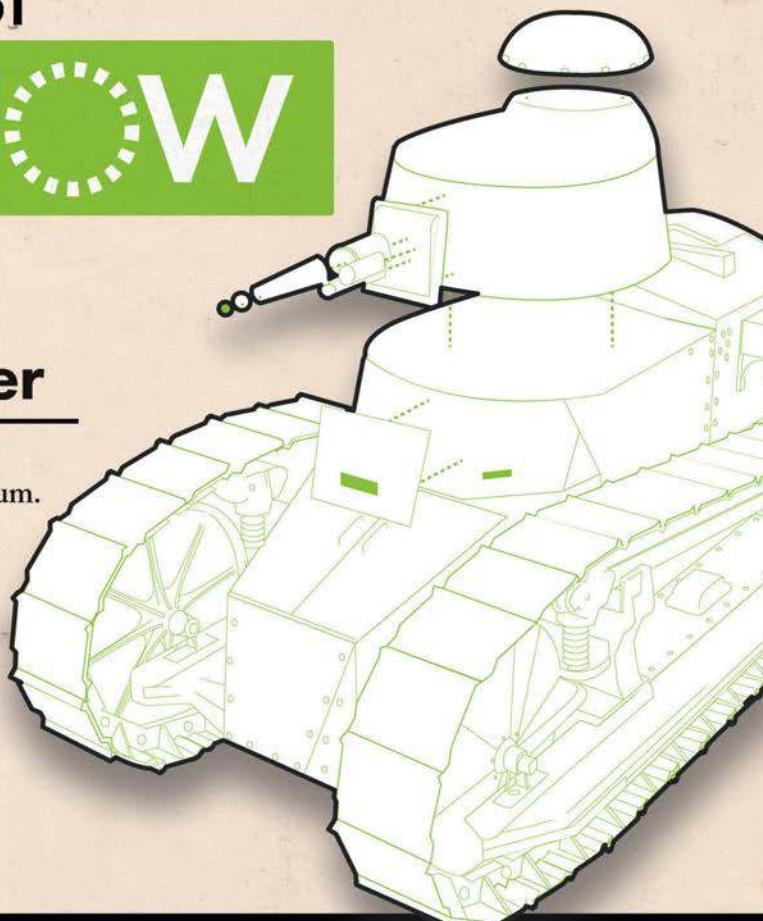


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EDUARD, CZECH REPUBLIC

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

Eduard's own new-tool, 1:48 P-51D Mustang receives a new resin propeller, cockpit, bronze U/C legs, wheels and gun bays this month and Tamiya's P-38 Lightning gets superdetailed 'Löök' instrument panel (two, in fact, for the 'E' and 'F') plus weighted wheels and nose gun barrels.



PHOTO-ETCHED DETAILS 1:350

- HMS Cornwall (53244) for Trumpeter

PHOTO-ETCHED DETAILS 1:144

- P-51D Mustang (144011) for Eduard/Platz

PHOTO-ETCHED DETAILS 1:72

- Messerschmitt Bf-109F-2 (73686) for Revell

PHOTO-ETCHED DETAILS 1:48

- Ilyushin I-28T Beagle (491034) for Bobcat

- Ilyushin IL-28T Beagle ZOOM (FE1034) for Bobcat

- Ilyushin IL-28T Beagle seatbelts STEEL (FE1035) for Bobcat

PHOTO-ETCHED DETAILS 1:35

- Sd.Kfz.165 Hummel exterior (36428) for Tamiya

PHOTO-ETCHED DETAILS 1:32

- Messerschmitt Me262A interior (32960) for Revell

- I-16 Type 10 I-16 interior (33238) for ICM

BRASSIN 1:48

- P-38F Lightning Löök instrument panel (644028) for Tamiya

- P-38G Lightning Löök instrument panel (644029) for Tamiya

- P-38F/G Lightning wheels (648515) for Tamiya

- P-38F/G Lightning gun barrels (648516) for Tamiya

- P-51D Mustang Hamilton Standard uncuffed propeller (648488) for Eduard

- P-51D-5 Mustang cockpit (648489) for Eduard

- P-51D-5 Mustang undercarriage legs BRONZE (648495) for Eduard

- P-51D-5 Mustang wheels (648503) for Eduard

- P-51D Mustang gun bays (648517) for Eduard



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



MATHOMODELS, BELGIUM

www.mathomodels.com

This Belgian manufacturer produces some extremely imaginative products for diorama builders, from printed signs and packaging to building details, miniature vegetation, cobblestones and even a set of five resin cats in 1:35! The latest items include a set of superb Shell and Texaco petrol logos (waterslide decals) and signage, modern-era cardboard boxes for Coca Cola, Pepsi, Fanta and Schweppes tonic water (trim, fold to shape and glue), house numbers (waterslide decals) and an impressive photo-etched brass gate. All are produced to a very high standard and have many uses, limited only by one's imagination!

1:35

- Cardboard boxes soda (35073)
- House numbers (35098)
- Oil & gas station decals (35099)
- Metal fence set B gate (35060)



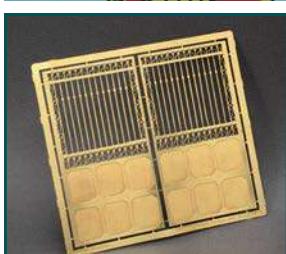
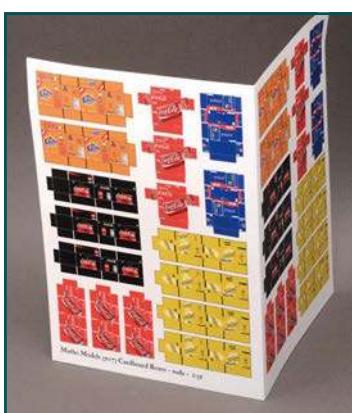
AMMO BY MIG, SPAIN

www.migjimenez.com

AMMO by Mig have issued some new paint sets that conveniently compile colours for specific subject areas. If you're painting modern-era US figures, the 'Multicam Camouflage' comprises six, 17ml bottles of brush-paintable acrylic paints that are perfectly matched to the colours that make up this complex uniform pattern, which is extremely useful. The same goes for the other sets, all made up from high quality acrylic paints that can be hand-painted or thinned and airbrushed.

FIGURES SET

- Multicam Camouflage (A.MIG-7028)
- Luftwaffe WWII Pilot (A.MIG-7025)
- Spanish Civil War Republicans (A.MIG-7227)
- French WWII Colors (A.MIG-7228)
- Republic of China Army (A.MIG-7172)
- Republic of Korea Army Modern Colors (A.MIG-7173)



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FC MODEL TREND, SPAIN

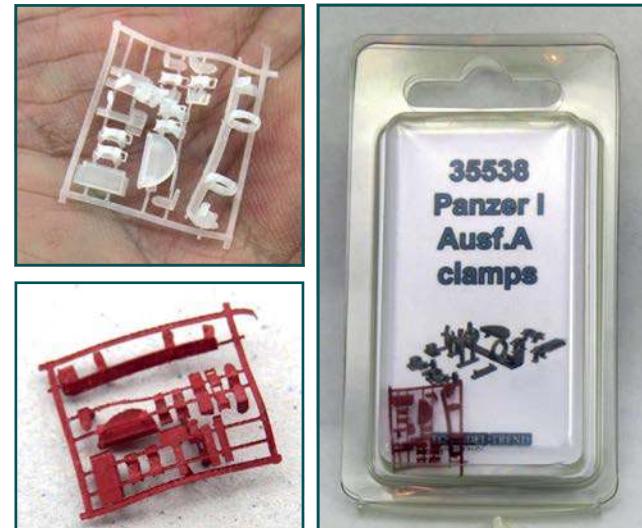
PANZER 1 AUSF.A CLAMPS

www.fcmoodeltrend.com

SCALE: 1:35 • MATERIALS: 3D PRINTED

PRODUCT CODE 35538

This little set is an inexpensive collection of the various clips, fittings and retainers for tools on a Panzer 1 tank, aimed at the ausf.A version, but many also suitable for the ausf.B type. Being 3D printed in translucent material, the parts were almost impossible to photograph for this review, so I have undercoated them for easier viewing. The parts include the slotted brackets for the spade and axe, along with the retaining clamps. The complex fittings for the early fire extinguisher and for the jack are provided, and the crowbar clamps are there as well. The parts are produced in incredible detail, which is almost impossible to see with the naked eye. These fittings would enable a modeller to depict an abandoned tank stripped of tools, or where the tools are being used. They are beautiful examples of what can be done with 3D printing technology. Very sharp 3D printing with every detail shown, including clamps and straps, but it would be helpful to have these in colour to aid visibility! **CLS**



FC MODEL TREND, SPAIN

WOT WEIGHTED WHEELS

www.fcmoodeltrend.com

SCALE: 1:35 • MATERIALS: R

PRODUCT CODE 35607

The ICM kit of the WOT6 was very welcome as a new British truck, but sadly the kit was based on restored examples with many post-war features. Most difficult to deal with are the tyres, which were not a British WW2 style. FC Model Trend, producer of resin and 3D printed accessories, has come to the rescue. The wheels are designed to be a simple replacement for the kit parts, and are produced in hard grey resin which captures detail very precisely. The wheels are cast with no blemishes, and can be used without difficulty. The tyre pattern is the Dunlop Trak Grip, which was the most common style seen in wartime photos. The pattern is accurately depicted (some manufacturers get it reversed), and the FC Model Trend wheels are perfect for any WW2 WOT vehicle. This makes them also suitable for the WOT8 kit that has just been released, which apparently suffers from the same inaccurate tyres as the WOT6 kit. The wheels have raised writing on the sidewalls, which may be slightly too prominent and should perhaps be gently sanded lower. However, the key feature of these wheels is that they are depicted as 'weighted', and this makes the model look as if it has a realistic weight, rather than being perched on the ground. Very sharp detail of the correct WW2 pattern tyres, for making an accurate model, but the wheel nuts could be more defined, perhaps. **CLS**



FC MODEL TREND, SPAIN

PANTHER SPARE WHEELS

www.fcmoodeltrend.com

SCALE: 1:35 • MATERIALS: R

PRODUCT CODE 35579

These are replacement parts – or additional parts – for any Panther or Jagdpanther, although note that they have 24 bolts on the rim, and are not suitable for an early Panther. These parts are exceptionally well cast in hard grey resin, which gives very sharp detail and which shows up the writing on the tyres, for example. The two wheels depict one with the hub bolts removed, and one with them in place. I'm not sure that any spare wheels were stowed with a full set of hub bolts, and the modeller should check whether a number need to be removed for a spare wheel on a hanger. These wheels both have the centre plate in position, which is sometimes seen on spare wheels, but would also make these wheels good for replacements on the axle, but without the hub-cap in position. If desired, this thin centre plate can easily be removed in seconds. Very sharp casting with details not often seen on model parts, but it would be good to have an explanation of the two types. **CLS**



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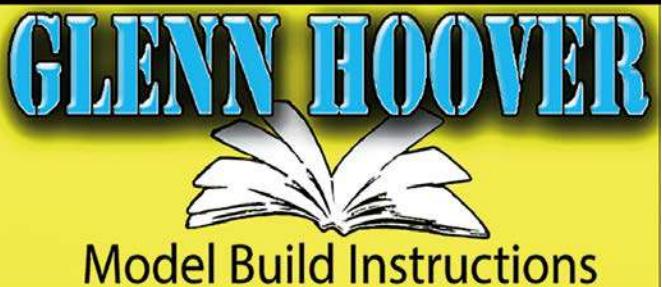
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BARRACUDACAST, USA

www.barracudacals.com

HK Models' magnificent 1:32 Lancaster gets a radio upgrade plus new (and huge) replacement resin wheels/tyres, in smooth and treaded tyres variants. These must be some of the biggest resin aircraft wheels we have seen at TMMI. A host of other new sets are listed below, all extremely well detailed and cast to very high quality.

1:72

- Ta152H mainwheels, smooth tyre (BR72369) for Aoshima and Dragon
- Lancaster mainwheels, smooth tyre (BR72414) for Airfix, Revell and others
- Lancaster mainwheels, block tread (BR72415) for Airfix, Revell and others

1:48

- Ta152H mainwheels, smooth tyre (BR48395) for Zoukei-Mura and Trimaster
- Hawker Hunter main and nose wheels (BR48406) for Airfix and others
- Sea Fury engine front and spinner set (BR48349) for Airfix

1:32

- DH Mosquito B Mk.VI radio set (BR32262) for Tamiya and HK Models
- Ta152H mainwheels, smooth tyre (BR32394) for Zoukei-Mura and PCM
- Lancaster WWII radio upgrade set (BR32411) for HK Models
- Lancaster mainwheels smooth tyre (BR32409) for HK Models
- Lancaster mainwheels block tread (BR32410) for HK Models



HYPersonic MODELS, JAPAN

www.hypersonicmodels.com

Hypersonic Models have produced a 1:48 kit of the US AG-330 start cart – the machine that was used to fire up the SR-71 Blackbird – and it is a little triumph of detail and refinement. It comes on two sprues of grey, injection-moulded polystyrene, plus a fret of photo-etched brass and a well-stocked sheet of waterslide decals. The detail in the moulded parts is fantastic; this is no token yellow slab to place next to your Blackbird model, it's thing of beauty in itself. Clear and easy-to-follow instructions complete this very thorough package. Fantastic!

1:48 AG-330 START CART (HMK4801)



USCHI VAN DER ROSTEN, GERMANY

www.uschivdr.com

This handy package of abrasives and finishing materials comprises eighteen items, including ten sheets of sandpaper (from coarse to microfine), four sanding pads, one double-grit polishing stick, one triple-grit polishing stick, one multi-grit sanding triangle and one foam block. With this to hand, the modeller can pretty much cope with any sanding operation that comes their way!

CONSTRUCTION STAGE AND FINISHING STAGE HIGH SHINE KIT (500HSK)





V-156-B1 Chesapeake (SB2U-3)
PKAY12330

1:48

NEW



USS Missouri BB-63
PKAY14401

1:400

NEW



B-17G Flying Fortress
PKHK01F001

1:48

NEW



Arado AR 68E
PKR0D427

1:48

NEW



LGOC B Type Bus
PKR0D739

1:72

NEW



M270/A1 Multiple Launch Rocket System - Norway
PKTM01048

1:35

NEW



US Army M4 Command & Control Vehicle (C2V)
PKTM01063

1:35

NEW



MAZ-537G Late w/ CHMZAP-9990 Semi-Trailer
PKTM01065

1:35

NEW



PHL-03 Multiple Launch Rocket System
PKTM01069

1:35

NEW



Airport Fire Fighting Vehicle AA-60 (MAZ-7310) 160.01
PKTM01074

1:35

NEW



P-40N Warhawk
PKTM02212

1:32

NEW



HMS Kent 1942
PKTM05352

1:350

NEW



Soviet JS-5 Heavy Tank
PKTM09566

1:35

NEW



TITANIC with LED Light Set
PKTM03719

1/200 SCALE

EXPECTED JAN/FEB 2020

KIT PREVIEW: WORLD WAR TWO LUFTWAFFE AVIATION

ZOUKEI-MURA 1:32 HENSCHEL HS129 B-2/RIII • KIT NO. SUPER WINGS SERIES NO.17



HENSCHEL'S FLYING TANK

Marcus Nicholls declares his love for the Henschel Hs129!

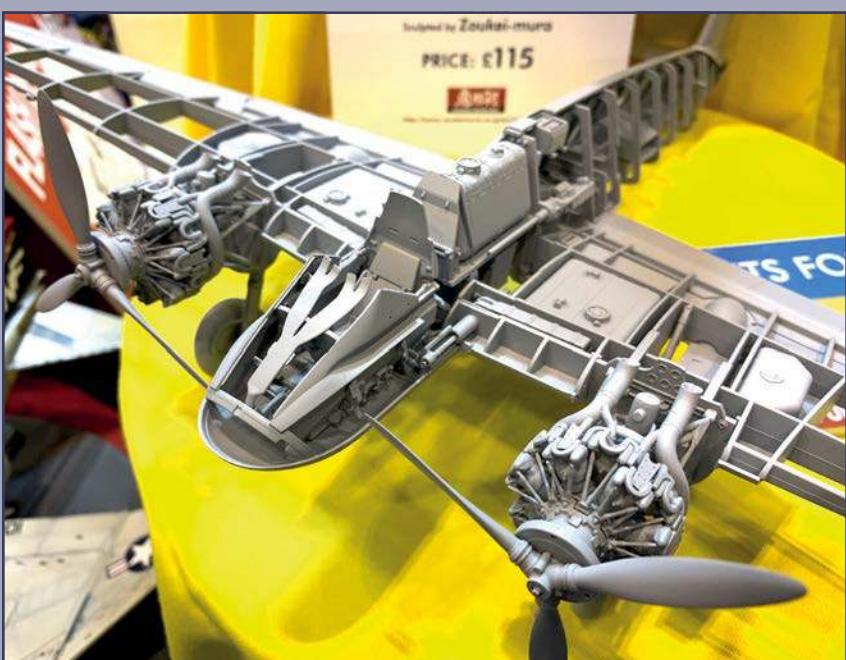
I have like the Henschel Hs129 for many years. There is something about its purposeful design that appealed to me; it's not a pretty aircraft by any means, but often, the less good-looking a subject is, the more effective it looks in model kit-form. I built the Hasegawa 1:48 a long time back (some readers might remember it in TMMI?) but haven't had another '129 since then, so when Japanese manufacturer Zoukei-Mura announced they were to issue a kit in 1:32, I just had to have it! The company chose to launch the model at the Scale Modelworld (Telford) show last year and I was able to take a few quick photos of it, which further whetted my appetite! Now the sample has arrived at Tamiya Model Magazine and I have had a chance to look through the box, I am not disappointed. It comes in a beefy 530mm x 330mm box which is packed to the brim with sand-coloured (plus clear) sprues of parts. A slick instruction booklet (fifty-two pages!), plus a sheet of decals will also be found inside, but no photo-etched parts. The model's parts carry so much moulded-in detail, there is simply no need for any. Well almost no need; oddly, for a kit of such delicious complexity, no seat harnesses are supplied, so the modeller will need to make their own, or adapt an Eduard 'STEEL' set.

The kit comes with two full renditions of the Gnôme-Rhône 14M radial engines and it is with these that the instructions begin. I gave up counting how many parts go into each one, but let's just say it's a lot, from the propeller spindle all the way back to the rear ancillaries and exhaust collectors, it's all there. The modeller may wish to add their own ignition harnesses using lead solder wire or similar.

The instruction booklet is tightly packed with assembly illustrations

Henschel at Telford

Back at last year's SMW at Telford, we took some snaps of the ZM Hs129 in various states of assembly. Note the B-3 variant on display, below



and it's well worth reading through it several times to get a feel for the order of construction. Repeated test-fitting is the order of the day here, with so many internal structural and detail parts to fit in.

In this edition of the kit (B-2/RHII) only the one markings option is offered, an aircraft of 4.(Pz)/Sch.G2 (W.Nr0310) based in Libya, February 1943 in the desert camouflage of sand (RLM79) with olive green (RLM71) mottling on the top surfaces and light blue (RLM65) undersurfaces. This is just fine for me, as it is the scheme I would have chosen anyway, but I was quite surprised there was just the one option. I am certain more will be offered when subsequent variants are released. So, as a basic introduction to the kit, here are some photos of its parts. As you can see there are a lot, and I will be relishing the assembly and paint of every single one! ●

Availability;

Zoukei-Mura models and accessories are available from; www.tigerhobbies.co.uk

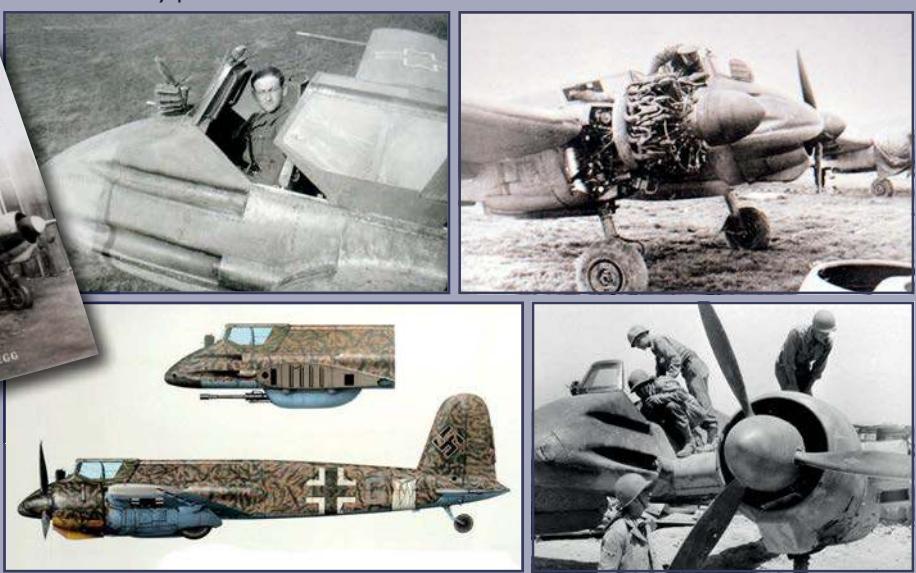


Books on the Hs129

Recently published are two excellent volumes on the Henschel Hs129



Henschel Hs129B-2;
German Aircraft In Romania .03
(www.radubstore.com)
Henschel Hs129
Panzerjäger
(www.chandospublications.co.uk)



These books were recently reviewed in TMMI issues 290 and 291

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DRAGON, HONG KONG

2CM FLAK 38 MIT SD.AH.51 & FLAK CREW

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, WS • ITEM NO.6942

The 2cm Flak 38 was the standard light anti-aircraft weapon used by German forces in WW2. It replaced the Flak 30, which looked similar. The 2cm guns remained in service throughout the war, although the more powerful 3.7cm guns began to replace them. The 2cm guns were widely used against ground troops, and were seen wherever the Germans were fighting. The Dragon kit first arrived in 2005 with an alternative etched brass shield and was immediately seen as a superb kit. In 2012 it was re-released with extra parts for making the later production types of the gun. This latest 2019 release of the kit includes the parts for both early and late versions, but does not include the brass gun shield – only the plastic option, which is in itself very acceptable. However, the new kit does include a crew of four Luftwaffe figures, which is an excellent step as many Flak guns were indeed crewed by the German Air Force. The kit offers four different settings for the elevation of the gun, plus the option to mount it on the specialised Sonder-Anhänger 51 trailer. In fact, there are countless options in the kit, with early and late features, with or without gunshield, and different sight types. This kit makes up into a fantastic little model, and the only difficulty is deciding which version to make! **CLS**

- + A wealth of options, plus a superb Luftwaffe crew
- I miss the etched brass shield, although the plastic version is fine.



DRAGON, HONG KONG

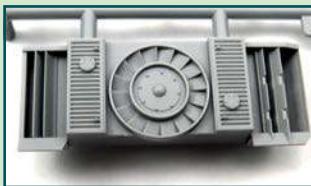
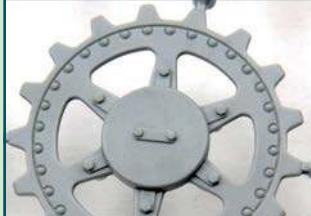
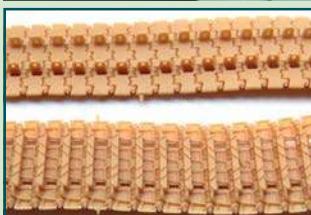
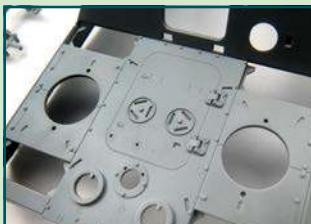
SD.KFZ.173 JAGDPANTHER AUSF.G1 LATE / AUSF.G2

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, SVT, WS • ITEM NO.6924

The German Jagdpanther barely needs any introduction, as with a deadly 8.8cm gun mounted in a sleek superstructure on a Panther hull, this was one of the most lethal and attractive vehicles of WW2. Well armoured and relatively fast, the Jagdpanther was a difficult opponent in an ambush. With many recent releases of Jagdpanther kits, this particular release from Dragon has two great selling points. It contains the parts to make the later G1 version and the late-war G2 type. They both had the bolted mantlet surround and the sectional gun barrel, but in other ways there were many differences. This kit contains the many optional parts to make these two versions. The quality of moulding is exceptional, and the small set of etched parts provides some lovely detail. The kit is simplified by having one-piece soft tracks which are a work of art. There is no internal detail, which makes sense as little can be seen through the hatches, and the beauty of this kit is in the very high standard of external accuracy. The torsion bars for the wheels are mounted flexibly, allowing the model to fit correctly on any undulating base terrain. Altogether, this release from Dragon blends accuracy with ease of construction. From the outset, the modeller needs to decide which version to build, and then read the instructions carefully to always choose the correct parts. **CLS**

- + All of the parts to make a late G1 or a G2 vehicle, moulded with great precision
- Some modellers will prefer individual link tracks in order to get the right amount of sag



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



DRAGON, HONG KONG

PZ.KPFW.III (3.7CM.) (T) AUSF.F 'OPERATION SEELOWE'

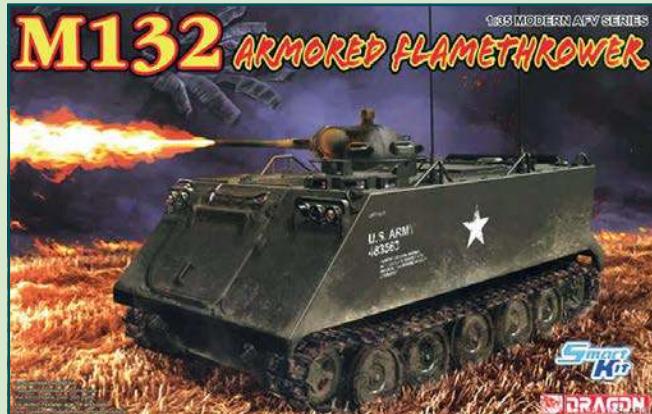
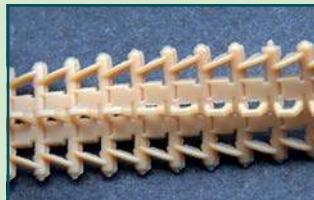
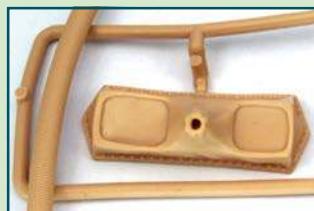
www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, SVT, WS • ITEM NO.6877

Operation Sealion was the planned German invasion of Britain in 1940, which was abandoned after the Luftwaffe failed to get air superiority in the Battle of Britain. In preparation for the invasion, the Germans tried to develop 'diving' (Tauch) tanks, able to approach the coastline submerged. These were successful, but when the invasion was called off, the tanks were not used in this way. With modification, they were used to cross the River Bug on the Eastern Front. This kit is sensational, based on the new ausf.E/F kits from Dragon, but with additional parts for making the test diving vehicle. The box actually contains all of the parts for making a normal tank, should you wish to do so. Many parts for the diving tank are moulded in soft vinyl, which allows for the air hose to be positioned as desired – and even extended if you want to put the tank underwater! As with all of the new Smart Kit releases from Dragon, this release is based on newly mastered moulds which are extremely accurate and detailed, and for simplicity the tracks are one-piece DS soft plastic, which many builders prefer. On my sample, there is rather too much 'flash' on the tracks, and they may annoy some modellers. The decals are for one vehicle used in the trials, and include the depth markings for the marker post. **CLS**

+ A sensational subject, very striking and original, with bonus Guderian figure.

- Tracks are not quite as outstanding as the rest of the kit.



DRAGON, HONG KONG

M132 ARMORED FLAMETHROWER

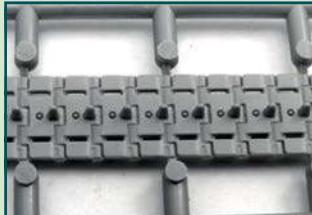
www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, PE, SVT, WS • ITEM NO.3621

The Zippo version of the M113 APC was developed in 1962, and after trials began to be deployed from 1964. Altogether around 350 were built, and the type saw service in Vietnam where it was used to clear dense vegetation and enemy bunkers in the difficult conditions of that conflict. The kit takes the standard M113, and requires minor surgery, explained in Step 1 of the instructions, after which the assembly is straightforward. The kit provides the four flame fuel cells which fit inside the hull, and allows the modeller to pose the hatches or ramp open to display the interior. The other significant part of the Zippo version is of course the flamethrower turret with coaxial machine gun, which replaces the normal cupola. This is very well represented, and is the signature part of this model. The kit comes with very sharply moulded link-and-length tracks with separate rubber track pads, which can make assembly and painting so much easier. The kit comes with soft plastic bedding and stowage, but these parts are very crude and poorly detailed, quite unlike the superb quality of the rest of the kit. These stowage items would be best placed inside the hull! There are decals for three vehicles – a trials version and two in Vietnam. All are similar in appearance, but the final result will be spectacular, particularly when weathered in Vietnam mud! **CLS**

+ A very accurate kit, crisply moulded, showing an unusual M113 variant

- Soft vinyl stowage items lack detail and precision



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ARMA, POLAND

HAWKER HURRICANE MK.I ROYAL NAVY COLOURS

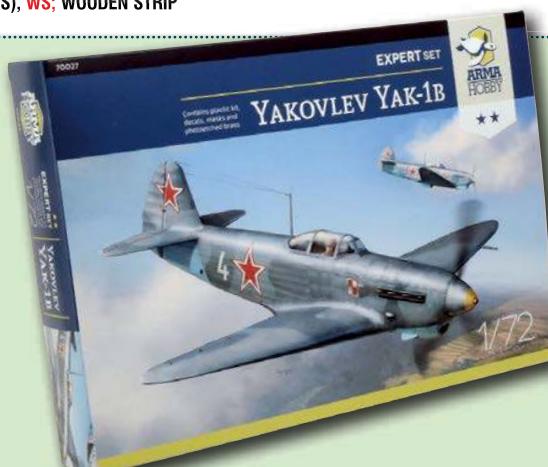
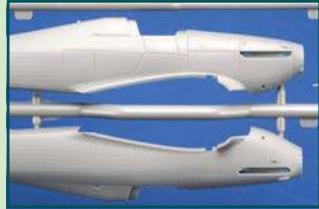
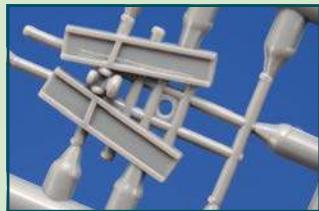
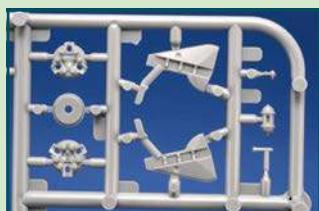
www.armahobby.com

SCALE: 1:72 • MATERIALS: IM, WS • ITEM NO.70022

The Hawker Hurricane is an eternally popular scale modelling subject, particularly in the British Isles for obvious reasons, so any new kit released of it always attracts attention. That pleasure is heightened when the kit is as good as this one from Arma of Warsaw; it's an absolute gem. The kit depicts a Hurricane Mk.I in Royal Navy colours; not strictly a pure 'Sea Hurricane' as it lacks an arrestor hook, so it's the unmodified, interim variant taken from RAF stocks. The Mk.Ia and Ib would have a hook and other naval equipment fitted. The kit comes on one large and one small sprue of grey polystyrene, plus one in clear and a sheet of waterslide decals offering markings for one of three aircraft. The first thing one notices is the incredibly subtle, scale-like stringer pattern on the rear fuselage. This is kind of the litmus test for any Hurricane kit and here it passes with flying colours. Onto the wings and here we have extremely fine recessed panel lines and raised fasteners at the wing gun access panels, but no rivets, appropriate for this scale. The cockpit is excellent, with all major structures represented with finesse. Decals are provided for the Sutton Harness and they are best replaced with Eduard photo-etch items (item 73-036 are ideal) for a more three-dimensional look. **MN**

+ A wonderful new kit of a genuine icon, fantastic detail everywhere, even down to weighted tyres with Dunlop logos! Tropical and night-fighter versions to follow

- Cockpit will look better with an Eduard harness set



ARMA, POLAND

YAKOVLEV YAK-1B EXPERT SET

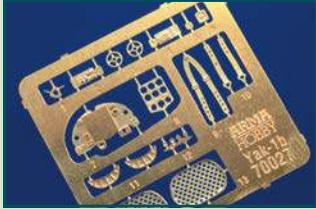
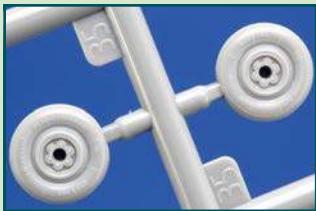
www.armahobby.com

SCALE: 1:72 • MATERIALS: IM, PE, PCM, WS • ITEM NO.70027

Just when we thought Arma's Hurricane was a fabulous new model, along comes their new Yak-1B in the enhanced 'Expert Set' series, upping the game for this war-winning Soviet fighter. The kit, much like the Hurricane, comes moulded in pale grey polystyrene but this time – because this is an 'Expert Set' edition – we have a supplemental photo-etched brass fret that carries the instrument panel, grilles (front and back) for the ventral radiator, cockpit controls plus some other tiny items. Also differing from the Hurricane, panels in the wings' undersurfaces, fuselage sides (cockpit area) and wing roots exhibit some rivet detail, but it is exceedingly fine and looks terrific. Accurately, the wings' main surfaces are smooth, as they were made from wood on the real aircraft. The Yak's cockpit is superb, featuring a multi-layered instrument panel and as mentioned, photo-etched brass harnesses. It all builds up on the wing's centre-section, with the assembled fuselage dropping into place at almost the end of assembly. A bold move for sure and test-fitting before committing to cement is advisable. A generous six markings-options are provided, five for Soviet machines plus one Luftwaffe-captured example. The glossy decals are printed by Techmod who have an excellent reputation for quality. Everything about this kit smacks of refinement and sophistication and it does the deadly little Soviet fighter proud. Let's hope for more! **MN**

+ Just a wonderful little model with impressive surface detail and some useful PE parts.

- Closed canopy only, but that's just nit-picking



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



EDUARD, CZECH REPUBLIC MESSERSCHMITT BF109E LEGION CONDOR

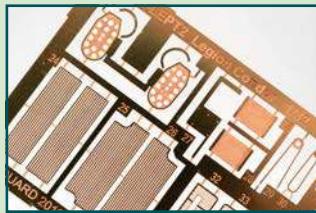
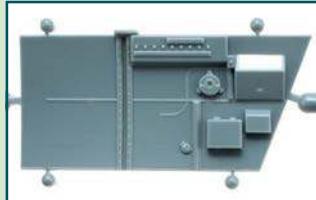
www.creativemodels.co.uk www.eduard.com

SCALE: 1:32 • MATERIALS: IM, R, PE, WS • ITEM NO.11105

Eduard's first release of their 1:32 Messerschmitt Bf109E was back in 2009 and it was welcomed by modellers worldwide for its accuracy and detail. After several, subsequent releases with variations of parts and markings, we now have this 'Legion Condor' version, an early machine that participated in the Spanish Civil War. The most striking aspect is the airframe of course, it being painted in solid RLM63 on the upper surfaces and RLM65 on the undersurfaces. Eduard provide five markings-options in the box, the differences mainly consisting of cockpit-side artwork, plus fuselage numbers of course. The kit parts are moulded in Eduard's distinctive blue-grey polystyrene and the parts-breakdown isn't too extensive, although there's an option to show off the included inverted V12 engine, so you will need to make a choice early on whether to install it or simply cement the cowling parts closed-up. Both modes are described in the instructions. As you'd expect, the cockpit is a little marvel of detail, with photo-etched parts included to upgrade it further, should you wish. The aforementioned engine is also a beautifully detailed sub-assembly and even if you choose not to instal it, it'll be worth building and painting for individual display. Even though it is over ten years old, Eduard's large-scale Bf109 is still a fantastic kit and in Spanish Civil War colours, it really does look attractively different. **MN**

+ Excellent detail inside and out, attractive markings-options

- The engine option isn't to everyone's taste, but it can be easily omitted



ZVEZDA, RUSSIA UAZ-3909 EMERGENCY RESCUE SERVICE

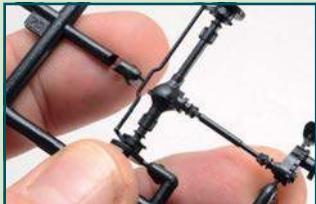
www.hobbyco.net

SCALE: 1:43 • MATERIALS: IM, WS • ITEM NO.43002

It's rare that we receive a model in 1:43 at TMMI, this scale being most common for model motor-sports kits and also for finished collectors' models. But, Zvezda have chosen it for their release of the UAZ-3909 ambulance and to say we are impressed would be an understatement. One might be forgiven for assuming some simplification would be in evidence, but that's certainly not the case. The van comes with a deliciously delicate ladder chassis with integrally moulded leaf-springs, very refined axles and drive shafts for the four-wheel drive system plus a quartet of tiny shock-absorbers. Being a Russian design for domestic use, the 3909 was fitted with beefy off-road wheels and tyres and these are well depicted in the kit. Moulded as solid pieces in proper kit plastic, the wheels/tyres are fantastically well done, even coming with side-wall logos. Inside the van's cabin, we have a simple bench seat in the crew area and an empty rear space, but the rear doors are moulded shut, so this void will be barely visible. The windows are moulded as individual panes and are very clear; they are formed from Zvezda's now-familiar, slightly flexible clear plastic which is good, as it will reduce the chance of cracking during installation. A fantastic little kit in an attractive scale. Now we just need one in 1:35! **MN**

+ Impressive detail and refinement in all areas. A great subject for different paint jobs and weathering

- Smooth tyre tread faces, no detail in rear area



New Releases

Kit Reviews

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

What's in the box?

AD; ACETATE DIALS, **AP**; ACRYLIC PAINT, **CC**; CAST CERAMIC (PLASTER), **CMA**; CAST METAL ALLOY, **CP**; CHROMED PARTS, **CPS**; CLEAR PLASTIC SHEET, **DT**; DRY TRANSFER (DECALS), **EM**; ELECTRIC MOTOR, **EPS**; EXTRUDED PLASTIC SECTION, **F**; FABRIC, **IM**; INJECTION MOULDED (PLASTIC), **ITL**; INDIVIDUAL TRACK LINKS, **LC**; LIQUID CEMENT, **LCC**; LASER CUT CARD, **LLT**; LINK AND LENGTH TRACKS, **MC**; METAL CHAIN, **MMA**; MACHINED METAL ALLOY, **MR**; METAL ROD, **MT**; METAL TUBING, **MW**; METAL WIRE, **NM**; NYLON MESH, **PB**; PAINT BRUSH, **PCM**; PRE-CUT MASKS, **PE**; PHOTO-ETCH, **PBMM**; 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



ITALERI, ITALY

MERCEDES-BENZ 300SL GULLWING

www.hobbyco.net

SCALE: 1:24 • MATERIALS: IM, SVT, WS • ITEM NO.3645

This kit dates back to the late 1980s but trust us, this is a good thing, because Italeri were doing some great work back then. The model depicts the achingly cool 1954 Mercedes-Benz 300L Gullwing and they captured its curvaceous bodyshell very well, wisely keeping those amazing top-hinged doors moulded closed. Italeri have kept the model's internal structures pleasingly simple too, the birdcage chassis being depicted only in areas where it might be seen, when viewed from below. A remarkably well detailed element of this model is the engine, which includes an exhaust manifold, fan-belt and connections for the cooling system. But how can it be seen when the bonnet is moulded in with the body? Take a closer look and you will see the bonnet is held in place by eight tiny tabs along its edges; for a closed-up option it can be left as-is, but to display the engine, the modeller simply needs to carefully cut through the tabs and fit the leading-edge hinge. There's a lot of 'chrome' (vacuum-plated aluminium) parts with this model and their finish is good, but for the ultimate appearance it's better to strip the plating with oven cleaner (toxic!), clean up the sprue attachment-points then re-chrome them with one of the excellent chromium-effect paints available nowadays. Overall, a great kit with an excellent bodyshell and some decent engine detail and for around £20-£25, fantastic value. **MN**

 Marvellous subject,
accurate bodyshell and a
great price

- A little fettling and clean-up will be needed to optimise the parts



REVELL, GERMANY LAND ROVER SERIES III LWB

www.revell.de/en

SCALE: 1:24 • MATERIALS: IM, SVT, WS • ITEM NO.07047

There has been much excitement about Revell's new-tool Land Rover and quite rightly so. It's

one of the most famous cars of all time, a British classic that has existed for so long that it feels like it's just always 'been there'. The model is in the 'standard' car scale of 1:24 which results in a bodyshell of around 176mm in length, ideal for the display cabinet or mantelpiece. Everything is moulded in an easy-to-work-with neutral grey polystyrene (apart from the tyres and windows of course!) and this reviewer feels all models should come this way; coloured plastics can bring their own problems, not least of which is actually seeing what you're working on. From even a brief glance at the body, it seems Revell have really done their measurements well and it looks spot-on. The doors (side and rear) are moulded closed which really is the best option for a scale appearance. Hinged doors on models only tend to look good when open; closed-up, the shut-lines are rarely even and scale-like. The bonnet, however, is openable and it's just as well because there's a very nicely detailed engine in the bay. All the main structures are present, so all the modeller needs to add are the ignition cables. The leaf-springs are individually moulded and it's worth taking extra time when aligning them on the ladder chassis, so the model sits straight when complete. **MN**

- + A genuine automotive icon that Revell have honoured with an accurate, highly detailed model
- No seatbelts, but not too hard to make from scratch. Plus our standard moan of an end-opening box..



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FULL-BUILD: MODERN ERA US NAVY JETS

HOBBYBOSS 1:72 F-14B TOMCAT • KIT NO.80277

HASEGAWA 1:72 F/A-18F SUPER HORNET • KIT NO.00548

DOUBLE-

Kitti Tatsumaki builds a brace of US Navy carrier jets and places them on a carrier deck, celebrating different eras of VF-103 'Jolly Rogers'



DECKER!



3M
FISHBONE STUDIO

FULL-BUILD: MODERN ERA US NAVY JETS

HOBBYBOSS 1:72 F-14B TOMCAT • KIT NO.80277
HASEGAWA 1:72 F/A-18F SUPER HORNET • KIT NO.00548

Cockpit tub with
pre-coloured
photo-etched parts

HOBBYBOSS 1:72 F-14B TOMCAT

US Navy F-14B Tomcat BuAerNo 162918/AA100
of VF-103 Jolly Rogers, Operation Iraqi Freedom III,
USS John F. Kennedy CV-67 NAG, November 2004.

The Grumman F-14 Tomcat has been one of my favourite fighter jets for as long as I can remember. This sleek supersonic fighter, with its unmistakable variable-sweep wings is recognised all over the World. I have here the Hobbyboss F-14B Tomcat (80277) which I will be building and using VF-103 markings. VF-103, Fighter Squadron 103 (FITRON 103), nicknamed the 'Jolly Rogers' is an aviation unit of the United States Navy and was established in 1952. The Squadron's radio call-sign is 'Victory' and it is assigned to Carrier Air Wing Seven. VF-103 was among the Navy's last fighter squadrons to transition to the Tomcat.

Working with photo-etched parts for cockpit and fuselage, I use Dream Model's set DM0540. Everything went smoothly and I fitted 80% of etched parts without any big problems. Detail and quality of the parts was really top-notch and easy to form. The only tricky part was on the left nose area; I spent over two hours just to cut and touch up three slots for boarding steps and ladders. After spraying Mr. Hobby 317 (Gray FS36231) on the cockpit parts, I started to hand-paint the

instrument panels. The clear canopy had a long seam line in the middle but with some careful sanding and polishing using Tamiya's Polishing Compound the seam line was history. I polished the canopy with coarse grade first, to remove the most of the seam line and to smooth the surface. The Medium grade improves the smoothness and finally, the Fine finishing compound more or less polishes the canopy to a very clear sheen.

Then I glued both upper and bottom fuselage halves and engine nozzles. I also assembled the pylons for AIM-54, AIM-7 and AIM-9 missiles. I found a big

fit-problem near the rear formation lights area, with a difference of levels between top and bottom fuselage halves, so I applied some three-second glue on the affected area and sanded it few times with different grit sponges until it looked good. I re-scribed the panel lines with 0.2mm scribe and deepened the rivets by using a needle.

For the ordnance, they're all from Hobbyboss itself except LANTIRN pod, which took from Hasegawa Aircraft Weapons: IX (35114). I removed the seam lines with the useful and handy ceramic knife. Seam lines were gone within a



Photo-etched radar array parts were fitted into the Tomcat's nose



The radar is seen here in primer, with ordnance under preparation behind



The kit engine-nozzles (at the back) and photo-etched replacements: the difference in detail is clear to see



The engine cans await fitting while the airframe is sprayed



few scrapes like they were never there. Of course, some sanding work is needed to make sure the surface is flat and smooth and then I re-scribed the panel lines again with 2mm scribe.

JET OUTLETS

Exhaust nozzles were painted gold with gloss black as base, then Gunze 28 Steel, following with AK841 Polished Aluminium and a few layers of very diluted Gunze 09 Gold. I then applied a light filter with Burnt Umber oil paints. The exhaust nozzles are etched-parts from Dream



The crew access ladder is tiny in 1:72!

Mini Review...



AMMO BY MIG PANZER CREW FIGURES SET (A.MIG-72024)
www.migjimenez.com



Timed very well for the release of Tamiya's new 1:35 Pz.38(t), this set of four paints provides all the shades you'll need to finish a WW2 German tank crewman, in the black uniform. All acrylic paints, the Bluish Grey, Slate Grey, Grey Light Brown and Outlining Black can all be used to finish off your figure perfectly.



Model, from a prototype sent directly from Dream Model factory in Shanghai. Intake and landing gear bays were painted with Gaia 031 Ultimate White and gaps near intakes filled up by using Perfect Plastic water-based putty. The AIM-54 and AIM-9 missiles were painted white using Gaia 031 too. I use Vallejo AV 70.950 for cockpit instrument panels and painted the buttons and stuff with white, red and blue.

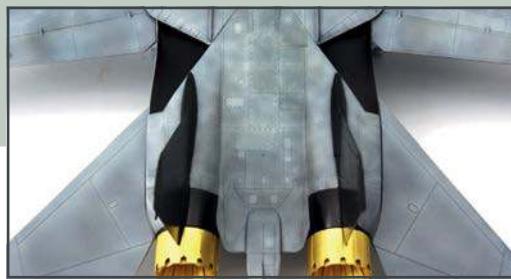
By using a pre-printed masking set, I quickly masked off the windshield and canopy. I filled and sanded the gaps and flaws again on canopy, back of fuselage, joint between fuselage and VTP, intake area and anti-glare area. I primed the whole thing with Mr. Finishing Surfacer 1500 Grey and after checking everything, then wet-sanded with 3M Microfine sanding sponge to remove all unwanted particles, that might form on the surfaces and corners due to humidity and air pressure issues, so wet-sanding is really necessary after surfacer to avoid any unpleasant experiences!

While waiting for the surfacer to fully cure, I started the detailing work on the ladders and landing gear. Nothing much to say about ladders as the hardest part was actually putting a 0.3mm copper rod through a needle hole. By referring to real photos I, added some hydraulic hoses, pipes, wires and also springs onto the landing gear. Basically, I spent three hours only for detailing the landing gear...

RADAR SET

I decided to pose the Tomcat with an open-nose to show its radar and I was very lucky that Dream Model had already produced the AN/AWG-9 radar etched-parts. It's designed to be used with Hasegawa F-14A so the size is a little bit off when I installed it onto this Hobbyboss F-14B, but still looks okay!

With the fuselage, wings and tail fins assembled, the plane was now ready for the painting stage. I began by pre-shading the panel lines with Gaia Notes



Mottling has been applied to the Tomcat's fuselage to emulate the real thing's often heavily weathered finish



An unpainted photo-etched cockpit frame has been placed over the painted aperture to show where it fits

#032 Ultimate Black. Using Gunze #315 FS16440 as the plane's main colour, I did some light random spraying so as not to completely cover the earlier Ultimate Black pre-shading. This trick will make the fading effects look more natural.

Finally, with a combination of Tamiya XF-2 Flat White and XF-10 Flat Brown, I did some colour balancing. Once I was satisfied, I sealed the model with Mr. Color GX100 Super Clear III to prepare it for the next stage; decalling. Hobbyboss's decals are very thin and have good adhesion. And with the decalling done, another coat of Super Clear III to protect the decals.

I used AK Interactive AK2072 Paneliner for Grey and Blue Camouflage for panel lining and colour-washes. This product is very simple but very effective. All I had to do was just apply the enamel-based

wash, leave it to dry for about thirty minutes and then clean off the excess with a cotton bud. As for the hydraulic fuel stains on both the wings and fuel tanks, I used both AK2039 Kerosene Leaks and Stains and AK 084 Engine Oil. For each layer of weathering and wash, I protect them with Super Clear III. This is a very challenging stage for me because once they are sealed, there is no going back and you can only correct the current layer. So, getting the effects right is very important.

LAST STEPS

Finally, I reached the post-shading stage. Here, I used Tamiya XF-1 Flat Black, XF-2 Flat White and AK2071 panel liner for Brown and Green Camouflage. One nice fact about them are that they are enamel based and will

not affect the previous layer which is protected by the lacquer based Super Clear III. And, if you're not happy with the effects done on the current layer, you can wash them away with AK Odorless Thinner, X-20 Enamel Thinner or even Zippo lighter fluid. Then you have a fresh clean slate to work on again. Think of every Super Clear III coat as a new canvas.

The weapons provided by Hobbyboss comprise the standard AIM-7, AIM-9 and AIM-54. So normal a three-second superglue will make short work of mounting them to the Tomcat. The final stage was where I gave the model a top-coat of semi-gloss. For the finishing touch, the both sides of the canopy were cleaned with an anti-static window cleaner to ensure a crystal clear finish. And with that, the F-14 Tomcat of VF-103 Jolly Rogers was now done. ●

The magnificent little model is done; time to take its place on the carrier deck



FULL-BUILD: MODERN ERA US NAVY JETS

HOBBYBOSS 1:72 F-14B TOMCAT • KIT NO.80277
HASEGAWA 1:72 F/A-18F SUPER HORNET • KIT NO.00548

HASEGAWA 1:72 F/A-18F SUPER HORNET

75th Anniversary scheme 1943-2018 'Victory 200' of US Navy
F/A-18F Super Hornet BuAerNo 168493/AG200 of VFA-103
Jolly Rogers, USS Abraham Lincoln (CVN 72), CVW-7 2018

Here I used Hasegawa F/A-18F Super Hornet (00548) which comprises ninety-eight light grey styrene parts (one not used); three clear parts and four polycaps (two not used). All ten grey sprues are squeezed into a single plastic bag. Clear parts are sealed into a separate plastic bag. Decals and instructions are floating in the box. Maybe it's my first time building Hasegawa's Super Hornet but what amazed me was the pivot lock for the tail planes.

These can be installed and removed as you like, which is something revolutionary. Some fishing sinkers added into the centre fuselage as ballast and increase some weight so that the aircraft will not 'wheelie'. For cockpit and ejection seat detailing, I used coloured etched-parts from Dream Model. They are easy to use and good value! This time, I began with the ordnance first. I primed all the weapons with Mr Finishing Surface 1500 Grey after removing all the seam-lines with a ceramic scraper. Some rivets were covered by surfacer so I deepened them again with a sharp needle.



A view into the cockpit before the upper and lower fuselage halves are mated. Note the lead-shot weights to keep the nosewheel down



As with the F-14, the Super Hornet's airframe was given a patchy, weathered appearance

UNDERCARRIAGE DETAILING

I installed some buckles on the landing gear using tie-down etched parts from Infini-model 1:72 Tie Down Point and Device Set A (IMP-72001R1). With only two parts, the buckle is movable to fit any hooks from all directions. For those areas where the panel lines and rivets disappear after sanding, I re-scribed and riveted and then double-checked by using Tamiya Panel Line Accent Color (Black). With this method, you will see at a glance and it's very easy to find which panel lines or rivets you've missed. Wash it away with Zippo fluid when

you are done! For the wings, I use flap-down resin wing set from Wolfpack-Design, Korea. The details are great; I mean those panel lines and rivets just don't look like resin after you've primed it. What I can complain about this set is the fitting problem, although it's very minor; just fix them with plastic plates, putty and couple of rounds of sanding.

The biggest fitting problem on this kit is the on the nose area. By using Tamiya cement, three-second glue, bar clamps and Perfect Plastic Putty, I managed to fill the gaps and fix almost everything including panel lines and rivets. It's fun, it's really fun... I primed

the resin wings, tailplane, tail-fins and parts of fuselage to check for errors.

For the paint work, I pre-shaded the aircraft with MODO M-002 Pure Black, following with Tamiya XF-63 German Grey, Gunze 73 Intermediate Blue, Gunze 43 Wood Brown and highlighted the panels and hatches with Gunze 308 and then pre-shaded the panel lines with MODO M-002 again. After that I sprayed different shades of grey onto the aircraft: mixed with a little blue and brown, plus some white on the hatches/panels for colour variation using Gunze 308, 315, 337 and white.

This shot shows the relatively small size of a 1:72 Super Hornet



An underside view shows the formidable array of weaponry the F/A-18F can carry

Wolfpack's 'flap-down' set was used to good effect

MASKING THE TAIL

After I was done painting the main colour, I need to paint the flame patterns on the tail-fin. After I had cut the flame patterns on masking tape, I masked the tail-fin and painted it with MODO M-002 Pure Black. I've also made plenty of small adjustments to make the whole thing look more subtle.

Decalling came next, after the basic paintwork was done. I used the Hasegawa decals, plus Galaxy Decals and Cartograf. The VFA-103 75th Anniversary decals are from Galaxy Model, which have a good adhesive but a little thicker compared to Trumpeter/Hobbyboss and slightly better than Hasegawa decals.

The Super Hornet was a little dark, so I adjusted the brightness of the aircraft by using Tamiya X-2 White Enamel, diluted with Zippo fluid, because if you made mistake you can always clean it with the same fluid, which is very convenient. Landing gear doors, hard-points and wheels were painted with GSI Creos and AV Vallejo. I applied panel washes and pin-wash to the pylons using Tamiya Panel Line Accent Color (Black) and fitted all the ordnance to their pylons with three-second glue. For the wheels, I airbrush Gunze 01 White and then hand-painted the rubber



The canopy is checked for fit while its masking is still in place



The completed cockpits are full of detail, impressive for this scale



Here we see the tails during their painting process

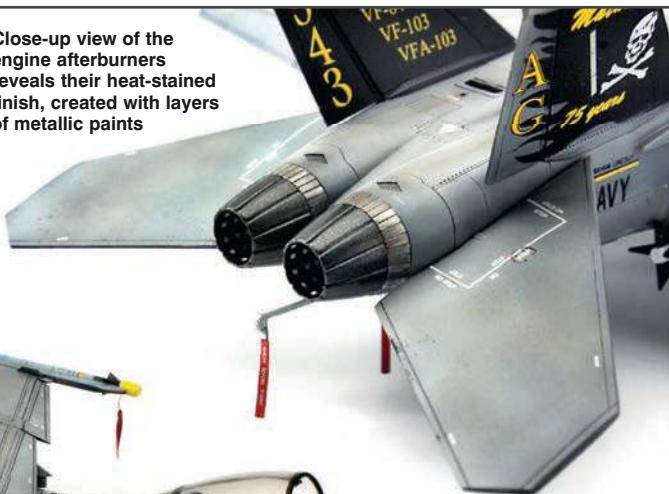
tyres with AV Vallejo 70.980 Nero Black, calling the wheels done after applying the white 'Goodyear' decals.

TIME TO WASH AND WEATHER

I used Tamiya Panel Line Accent Color Black (87131) for panel washing, weathering with oils to simulate streaking, oil leak and colour variation. I used Burnt Umber and Prussian Blue to weather the metallic shades on the exhaust. As with the Tomcat, I attached the ordnance, fuel

tanks and landing gear with three-second CA glue. The model was now 90% complete, with just the arrestor hook, navigation lights, antenna (PE), and a few parts in cockpit (control stick) to add. After that, I fitted some 'Remove Before

Flight' tags from Eduard to the aircraft, using Lycra rigging from Infini-Model as the thread which is really cool, visit their website if you want to know more! After done those PE in canopy, glue them onto inner canopy and calling it done! ●



Close-up view of the engine afterburners reveals their heat-stained finish, created with layers of metallic paints



With the addition of 'remove before flight' tags, the model looks spectacular

FULL-BUILD: MODERN ERA US NAVY JETS

HOBBYBOSS 1:72 F-14B TOMCAT • KIT NO.80277

HASEGAWA 1:72 F/A-18F SUPER HORNET • KIT NO.00548



TECH SPECS...

HOBBYBOSS 1:72 F-14B TOMCAT

KIT NO.80277

HASEGAWA 1:72 F/A-18F SUPER

HORNET

KIT NO.00548

Materials:

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

Paints used:

- Tamiya Acrylics; XF-2 Flat White, XF-10 Flat Brown XF-1 Flat Black, XF-63 German Grey,
- Tamiya Panel Line Accent Color Black (87131)
- X-20 Enamel Thinner
- Mr Hobby 317 (Gray FS36231), 28 Steel, 73 Intermediate Blue, 43 Wood Brown
- Mr. Hobby Mr Finishing Surfacer 1500 Grey
- Gaia Notes; 031 Ultimate White
- Vallejo; AV 70.950
- AK Interactive; AK841 Polished Aluminium, AK2072 Paneliner for Grey and Blue Camouflage, AK2039 Kerosene Leaks and Stains, AK 084 Engine Oil

Availability:

- Hobbyboss models are widely available from good model shops and online.
- www.creativemodels.co.uk
- Search online for Hasegawa kits



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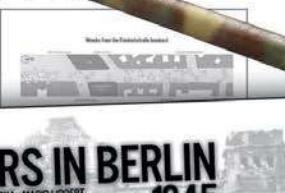
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Book Reviews

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

THIRTY FIVE MOTORS, ULTIMATE 1:35 TECHNICS MOTORCYCLE

SAITO MASAYA, MODEL GRAPHIX

ISBN: 978-4-499-23277-7

www.hlj.com

Masaya Saito might be a name familiar to long-term readers of Tamiya Model Magazine. He is the man behind the 'Swash Design' line of 1:35 motorcycle models, which are some of the most mouth-watering little kits we have ever encountered. The are made from resin, white metal, photo-etched nickel-steel and other high-end materials and are really suited to modellers of experience and patience, but the results that can be achieved are incredible, the sophistication and finesse shining out from every detail. Now, Masaya has put many of his miniature motorcycles into this new book, a 110+ page softback edition, published in Japan to a very high standard. Inside you can drool over the exquisite, jewel-like models offered by Swash Design and built/painted by the author and see how they come together with some step-by-step chapters. If you enjoy the finest models, built with passion to exacting standards, this book is a must-have.

Very highly recommended. **MN**



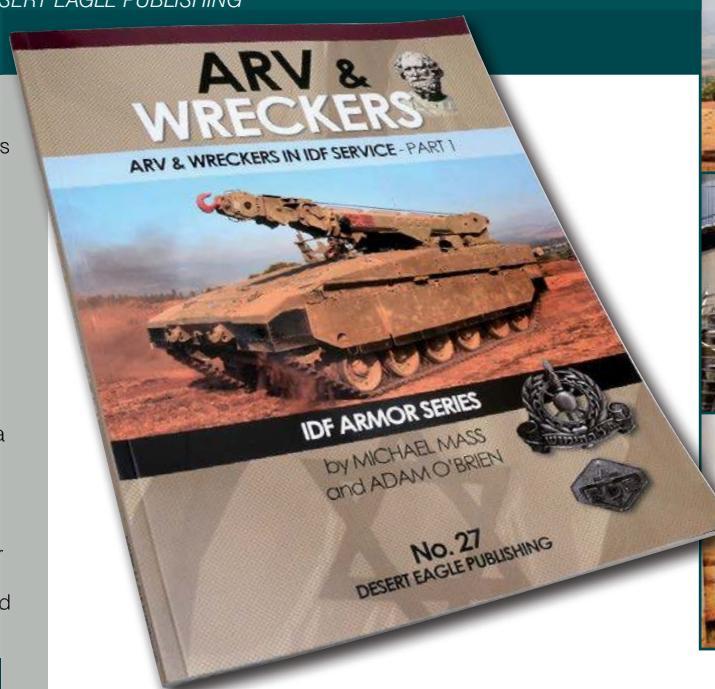
ARV & WRECKERS IN IDF SERVICE PART 1

MICHAEL MASS, ADAM O'BRIEN, DESERT EAGLE PUBLISHING

ISBN: 978-965-7700-14-3

www.aviationbookcentre.com

Israeli Defence Forces armoured recovery vehicles and wreckers are the focus of Desert Eagle Publishing's latest volume on IDF AFVs and as always, it's an absolute feast for modellers who build these subjects. Within the eighty-four, soft-backed pages we find a range of machines from the re-engined, ex-US Army M32 ARV, Centurion ARV Mk.2, the brutal-looking Sherman 'Gordon' Type C, M578, M88A1 Tachlatz (with and without anti-RPG bar-armour), right through to the Merkava-based Rekem Aqhzaka and Namer Aqhzaka ARVs. All have an extremely tough countenance and are thus very model-genic. As always with this series of books, the photography is excellent (all colour, except the earlier machines) and the captions useful and informative. Highly recommended for all followers of IDF armour. **MN**





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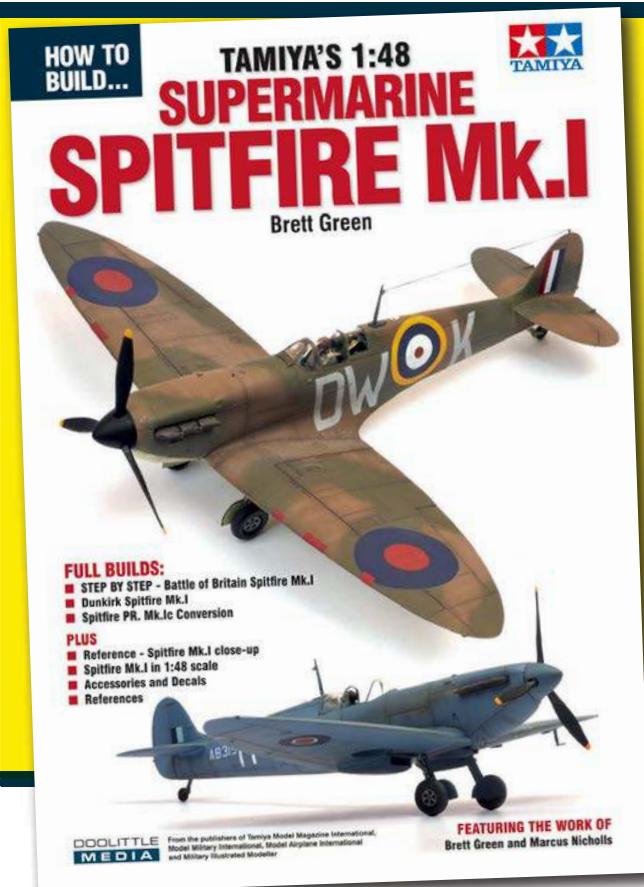
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How to Build...

TAMIYA'S 1:48 SUPERMARINE SPITFIRE MK.I

When Tamiya released their 1:32 scale Spitfire Mk.IXc in 2009, they set a new standard for plastic model kits. As one of the most popular subjects in the history of scale modelling, we should not be surprised to find that Tamiya has now released an all-new Spitfire kit in 1:48 scale.

Tamiya's brand new 1:48 scale Spitfire Mk.I delivers innovative design, outstanding detail, an accurate outline and crisp, subtle surface textures.

This model has nothing at all in common with their 1993 kit. Between these covers, we provide an exhaustive step-by-step illustrated guide to building Tamiya's 1:48 scale Spitfire Mk.I straight from the box plus tips on painting and weathering. Plenty of inspiration is offered with two different configurations plus a conversion to the Photo Reconnaissance version with models by Brett Green and Marcus Nicholls.

Also included are a walkaround of a surviving Spitfire Mk.I, a summary of other Spitfire Mk.I model kits available in 1:48 scale, a list of available accessories and decals plus a catalogue of helpful references.

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The next issue of TMMI is March 2020
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Tamiya's 1:35 Steyr truck gets converted to a mobile anti-aircraft 'jabo-defender'



BIG MAC'S BACK!

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YAKETY YAK!

Zvezda's superb 1:48 Yak-130 in Bangladesh Air Force markings



...AND MUCH MORE, OF COURSE!

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

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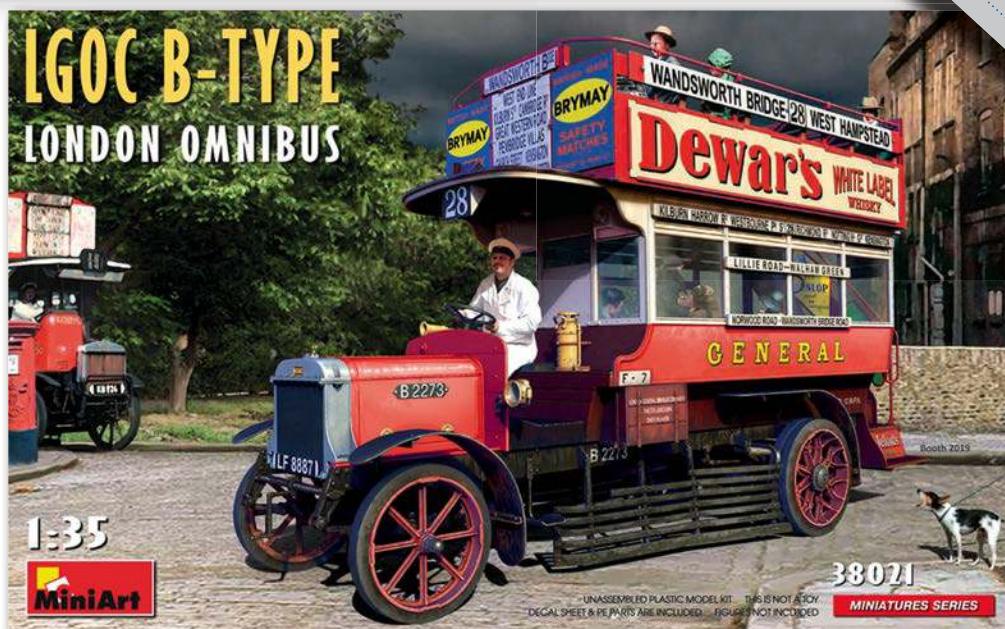
The Editor's Page...

A new London Omnibus kit evokes some memories

I have to say, when I read that MiniArt were to release a new 1:35 kit of a London Omnibus, it evoked some emotional memories for me. When growing up, my dad had built the old 1962 Airfix 1:32 1910 B-Type kit and it had sat in a small glass display case on the wall of my childhood home for, quite literally, decades. To me, it was wonderful museum piece and I am sure, seeing everyday, it was to influence my love of model kits. I will forever associate this subject with my dad, but when he passed away a few years back, I think the model disappeared when we cleared the house. My eyes (not entirely dry) lit up when I saw MiniArt's announcement and I intend to build one as a tribute to my dad, and maybe even find a similar glass box to mount on the wall of my home. ●

Availability:

MiniArt models are widely available from good model shops and online. www.creativemodels.co.uk



ON THE BUSES



EDITOR'S CHOICE

Tamiya Craft Tools Craft Knife II (74153)

Not all cutting operations in scale modelling require a super-thin, precision blade; sometimes we just need to cut plastic card and thicker materials and a scalpel can sometimes snap in such conditions. Tamiya have recently issued the 'Mk.II' Craft Knife and with its retractable, snap-off blade, it is the ideal general cutter for the workbench.

www.hobbyco.net





LIGHTNING STRIKE

1:72 F-35 B Lightning II STOVL Version (1425)

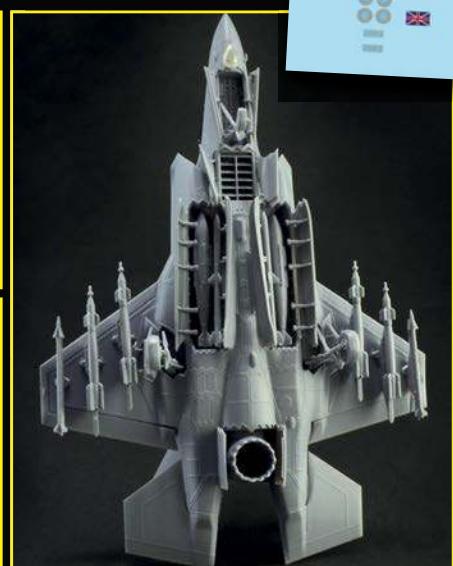
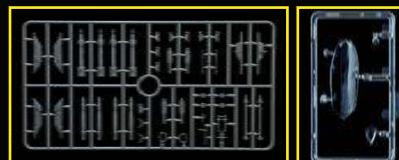
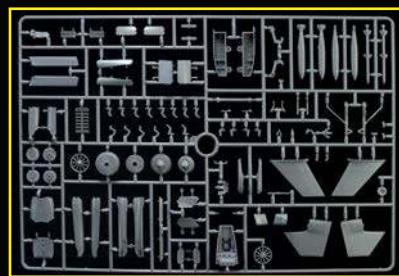
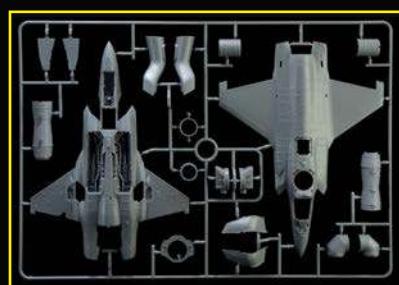
This is a new tool kit which provides fantastic detail for 1:72nd scale, you can nearly feel the uplift from the engine fan behind the cockpit.

The JSF Joint Strike Fighter program was set up to develop a new generation of all-weather multirole combat aircraft able to replace the existing United States and NATO strike-fighters.

The F-35B Lightning is a fifth-generation combat aircraft, based at RAF Marham. The short take-off and vertical landing (STOVL) capability allows it to operate from the new 'Queen Elizabeth'-class aircraft carriers, vessels of allied nations and short airstrips. In July 2012 the government decided to purchase an initial batch of 48 aircraft. By 2015 the Strategic Defence and Security Review confirmed the UK's intention to buy 138 Lightnings and undertook a massive infrastructure upgrade at RAF Marham. Britain currently has 17 F-35B's & operational sorties have been flown over Iraq and the Levant countries. Successful trials have also been undertaken aboard HMS Queen Elizabeth and it is expected that full carrier strike capability will be achieved in 2020. The last of the initial 48 Lightnings are expected for delivery in January 2025. In the meantime a schedule for the remaining 90 aircraft and further squadron formations are likely to be put in place. The F-35B is capable of conducting air-to-surface, electronic warfare, intelligence gathering and air-to-air missions simultaneously, making it the RAF's first multi-role supersonic stealth aircraft.

Model kit features:

- High quality, highly detailed kit
- Engine with two thrust nozzle positions, straight and rotated 90 degrees
- Panels may be opened to view interior detail
- Weapon carrier trolley included for dioramas
- American version with rocket pillars included
- Four different versions of roundel decals



Panzerkampfwagen 38(t)

Ausf. E/F

1/35
SCALE

Length: 132mm
Width: 62mm



19th Panzer Division, Russia, 1941

Early Eastern Front Warrior

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

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



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



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



Comes with a realistic commander figure.

Features two Eastern Front marking options.

7th Panzer Division, Russia, 1941-1942

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



Photo-etched part

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



German Tank Destroyer Marder III
(Item 35248)



German Tank Destroyer Marder III M
(Item 35255)



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



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

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

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