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**ALFA  
MALE**

TAMIYA'S CLASSIC  
ALFA ROMEO 155 V6 TI,  
UP-DETAILED

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

INTER

**PETIT  
FILOU**



**TAMIYA'S  
1:35 FRENCH  
R35 LIGHT TANK,  
PAINTED!**

**INSIDE**

Heinkel Volksjäger in bare wood finish, sinking U-Boat diorama, 3D printed elephant, plus new kits, books and modelling accessories...

DOOLITTLE  
MEDIA



95





# Ninja reaches its ultimate expression

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

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

★This is a 1/12 scale plastic model assembly kit capturing the 2018 spec Ninja H2 Carbon. ★Features a realistic depiction of the inline-4 engine and supercharger. ★H2 road bike spec upper cowl with headlight and mirrors, side cowls and rear cowls really capturing the bike's aerodynamics in style. ★Cowls, engine and swingarm are attached to the frame via screws.



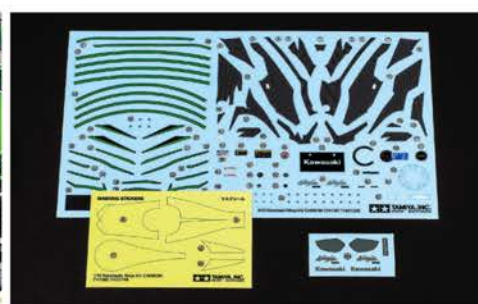
Length: 174mm, width: 76mm, height: 96mm



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



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



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



(Item 14084)



(Item 14131)

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

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

**1/12 Kawasaki Ninja H2R** (Item 14131)

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







**26 PETIT FILOU**  
Building and painting  
Tamiya's new 1:35 R35  
Light Tank

**8 ALFA MALE**  
Tamiya's Alfa Romeo  
155 V6 TI racer, with  
carbon-fibre effects



**16 DROWNING WOLF**  
The creation of a magnificent  
Type VIIC U-boat diorama



# Model MAGAZINE INTERNATIONAL

**Issue 295 May 2020**

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

## Contents

### 4 NEWS DESK

New kit and model product news

### 24 WILD HORSE POWER

Tamiya's all-new 1:24 2019-spec Ford Mustang GT4, previewed

### 40 WOODEN WUNDER

Tamiya's Heinkel 1:48 He162 A-2 Salamander in its bare 'wooden' state

### 46 NEW RELEASES ACCESSORIES

New and recently issued modelling accessories

### 50 ЗА СТАЛИНА!

For Stalin! Tamiya have released a new-tool 1:35 KV-1 Stalin tank. Did you know?

### 52 NEW RELEASES KITS

New model kits reviewed

### 54 INTO THE WILD

A beautiful and realistic 1:12 model of a baby African elephant, 3D printed!

### 60 BOOK REVIEWS

New and recent books related to scale modelling

### 64 CONTACTS

Where to buy the products used and reviewed in TMMI

### 66 THE EDITOR'S PAGE

Do you have a favourite modelling inspiration book?



### HOW TO CONTACT US:

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## IN BRIEF...



### TAMIYA

- 1:12 Porsche 934 Vaillant
- 1:12 Kawasaki H2 Carbon
- 1:35 West German Tank M47 Patton (Italeri tooling)
- Spray-Work Airbrush Stand III
- Airbrush Regulator (w/Meter)
- Metal Primer (40ml Bottle)

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

### EDUARD

- 1:48 Avia S-199

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



### REVELL

- 1:76 T-34/76 Model 1940
- 1:35 Sd.Kfz. 251/1 Ausf.A
- 1:72 Sd.Kfz. 251 ausf C with Wurfir 40
- 1:72 Jagdpanther Sd.Kfz. 173
- 1:72 A-10C Thunderbolt II
- 1:72 Junkers F.13
- 1:72 Dassault Aviation Mirage F.1C-CT
- 1:72 Junkers Ju88 A-1 Battle of Britain
- 1:72 UH-60 Transport Helicopter
- 1:720 Assault Ship USS Tarawa LHA-1
- 1:200 Gift Set Bucket Wheel Excavator 289
- 1:72 Model Set MH-47E Chinook
- 1:24 '78 Corvette Indy Pace Car

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



### STAR DECALS

- 1:48 T-55A Balkans
- 1:48 T-55A Cold War
- 1:48 T-55A War

[star-decals.net](http://star-decals.net)

## NEW FROM AIRFIX

### 1:48 DeHavilland Tiger Moth

It had to happen! Airfix's ever-expanding range of mouthwatering, new-tool 1:48 aircraft models now includes the lovely DeHavilland Tiger Moth. More news on this kit soon.  
[www.airfix.com](http://www.airfix.com)



## ON THE WAY FROM TAMIYA

### 1:10 RC 1997 Mercedes-Benz CLK-GTR (TT-01 Type-E)

Tamiya is to re-launch the classic 1997 Mercedes-Benz CLK-GTR (originally 58214), this time on the proven TT-01 Type-E chassis which features shaft-driven 4WD for easy handling, and great customising potential. A wide range of Hop-Up Option parts is available to tune the chassis.

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



## ON THE WAY FROM TAMIYA

### 1:48 Swiss Messerschmitt Bf109 E-3

This special edition kit depicts one of the Bf109E-3 aircraft operated by Swiss forces during and after WWII. Includes markings to recreate the Swiss flag markings that were applied to stop them being mistaken for German Luftwaffe aircraft. The kit will come with two marking options. [www.hobbyco.net](http://www.hobbyco.net)



## ON THE WAY FROM REVELL

### 1:72 Star Wars B-Wing Fighter

Now under Revell's wing, Bandai's range of stunning Star Wars kits now includes the B-Wing, a great-looking machine. The kit features a detail cockpit with a miniature of Nien Nunb at the controls!

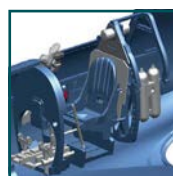
[www.revell.de/en](http://www.revell.de/en)



## NEW FROM ZVEZDA

### 1:48 MIL Mi-24V/VP Hind combat helicopter

The Mi-24 - NATO code HIND - was developed in the late 1960s, the 'V' version being the most widely produced, with over 1,500 examples being made. The first combat test for the Hind was the Afghanistan conflict and it served in most conflicts worldwide, from 1979 until the present time. Zvezda's new-tool kit allows the building of two versions: Mi-24V with single 12.7mm four-barrel YAK-B machine gun Mi-24VP with 23mm twin autocannon turret. Decals are provided for one Soviet, two Russian and one Czech Air Force helicopter. Two pilot figures are included. [www.hobbyco.net](http://www.hobbyco.net)

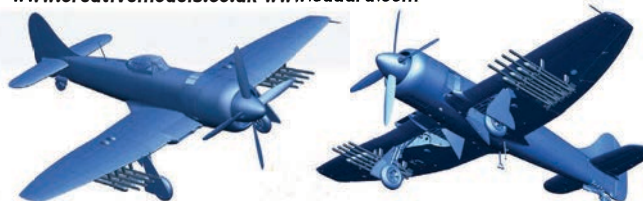


## NEW FROM EDUARD

### 1:48 Spitfire Mk.I new-tool & 1:48 Tempest Mk.II

Eduard have created an all-new Spitfire Mk.I in 1:48 and it will feature some fantastic surface detail. More news soon. The Tempest Mk.II follows the previous Tempest release, the Mk.V. There will be a new fuselage and wing plus some detail parts. Many small parts are shared with the Mk.V kit.

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

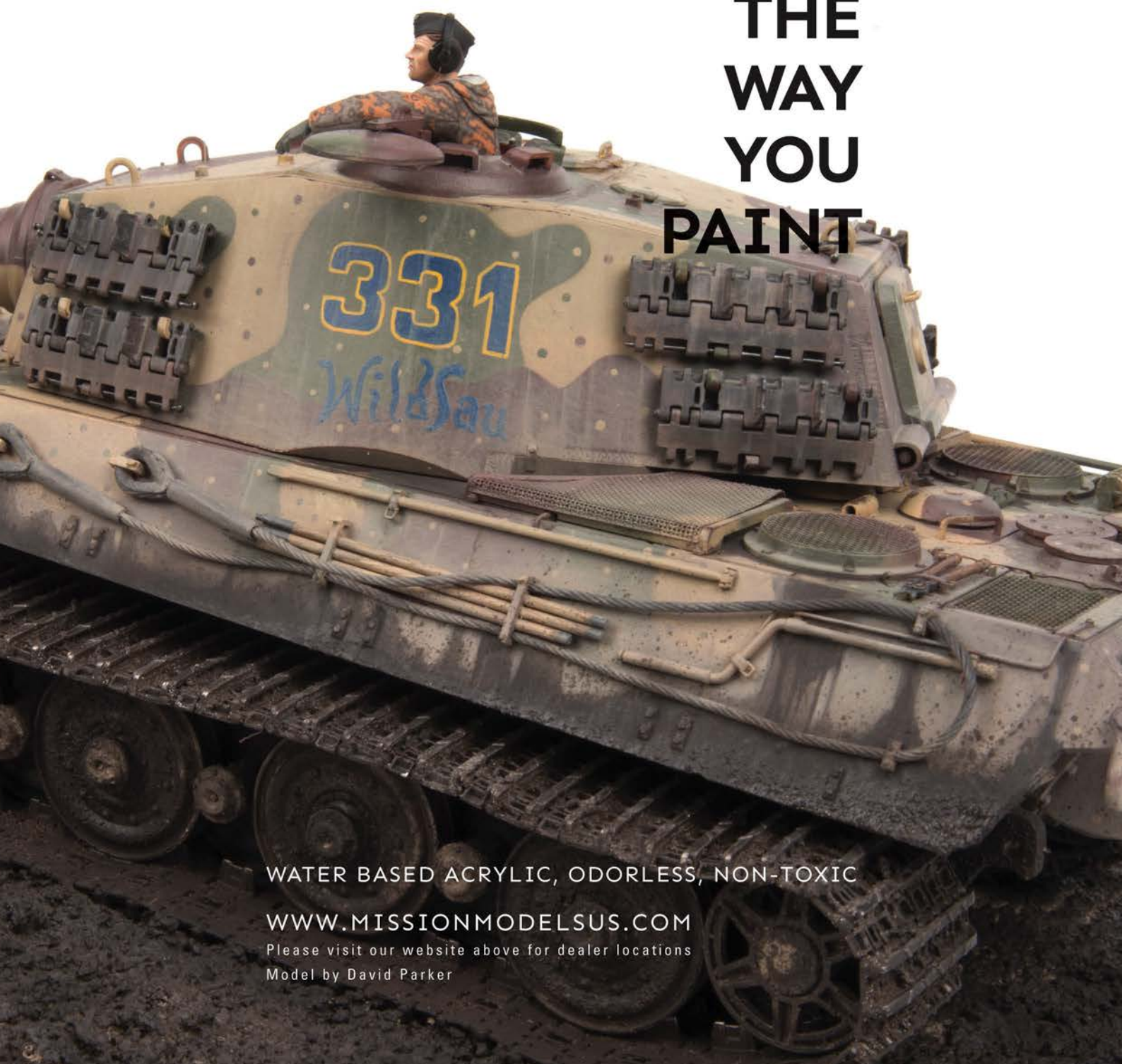




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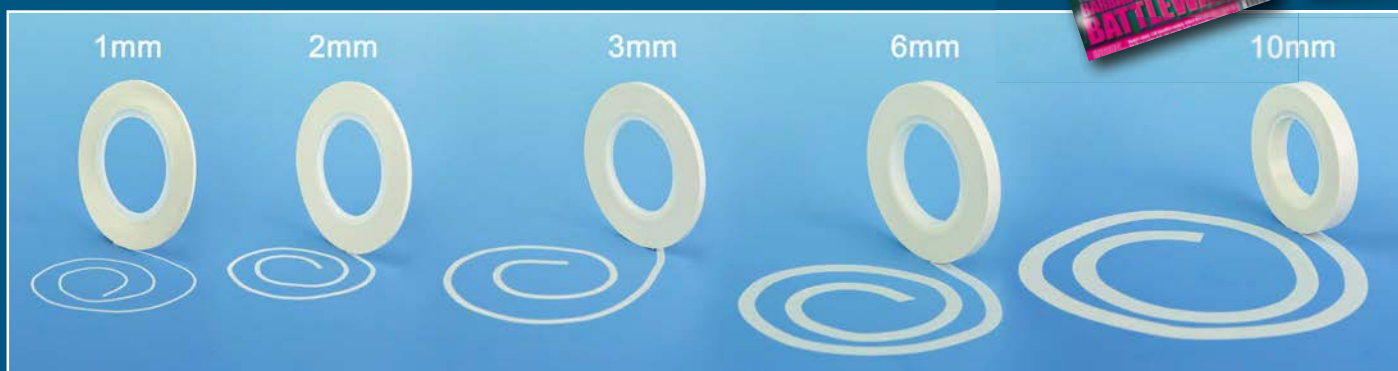
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# ALFA MALE

**Dallas Hall** goes back in time to 1994 and builds Tamiya's still superb 1:24 Alfa Romeo 155 V6 TI, adding Studio27 and Hobby Design detail sets for good measure



**B**ack in the early 1990s, Alfa Romeo was a dominant force in Touring Car racing across various championships, one of which was the German DTM series and this was the car Tamiya picked as the base for this kit. In the usual Tamiya fashion, all parts are nicely moulded and detailed allowing for a decent-looking build out of the box. I chose to take mine a step further though and introduced a number of extra details along the way. Studio 27 and Hobby Design both make decent details sets; unable to decide which to use I went with both, picking and

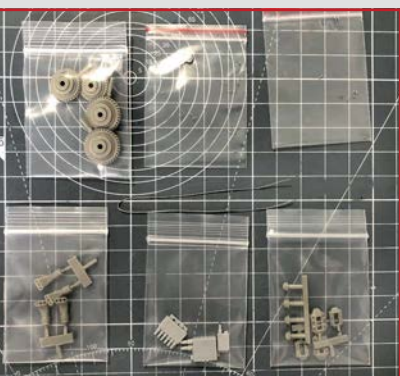
choosing the best from each. I started my build with the heart of the car, the V6 engine. Selective detail painting, a bit of carbon-fibre decal and additional wiring saw this start to come to life. Once attached to the chassis and the exhausts fitted, I moved on to the suspension. The Studio 27 set included some really nice cast alloy brake parts, so these were what I opted to use. Not being happy for them to hide behind the wheels, a decision was made on the direction I would take for the final display. With the PE disk faces given a key with my Dremel they had a suitably worn look ready to be shown off. ►

## Checking out the accessories



Comparing the Hobby Design and Studio 27 brake sets. As nice as the HD set is, the white metal parts in the S27 set just have that little bit more detail that will add to the build





A selection of resin parts and metal rivets that come in the Hobby Design set



Studio 27 white metal parts will make some nice additions to the kit. They also include ribbon for the seatbelts if you choose to use them



Hobby Design resin wheels are slightly different to the kit parts and include detailed centre nuts. These will make a nice addition and give it a different appearance once finished



## FULL-BUILD: DTM MOTORSPORT

TAMIYA 1:24 ALFA ROMEO 155 V6 TI ● KIT NO.24137

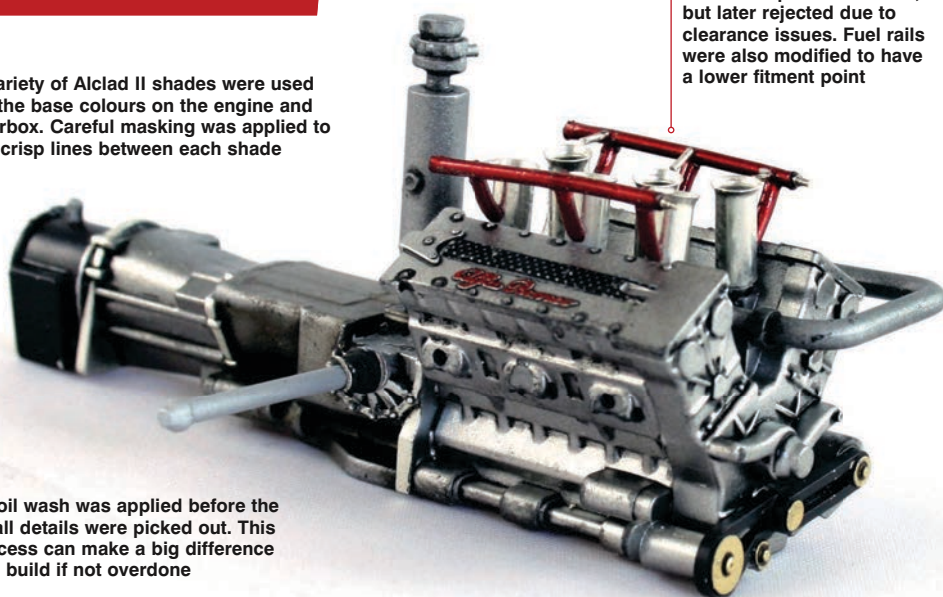
### Up-detailing the engine



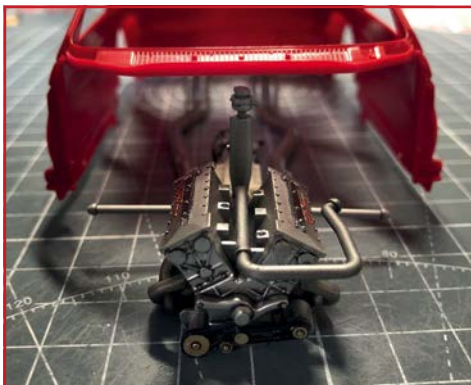
A variety of Alclad II shades were used for the base colours on the engine and gearbox. Careful masking was applied to get crisp lines between each shade



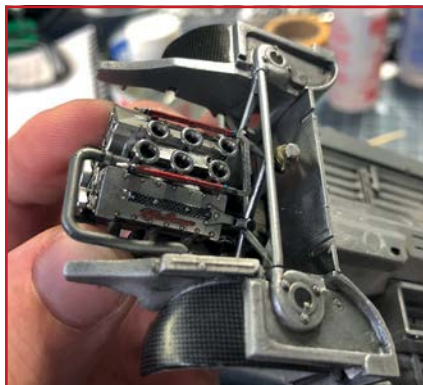
An oil wash was applied before the small details were picked out. This process can make a big difference to a build if not overdone



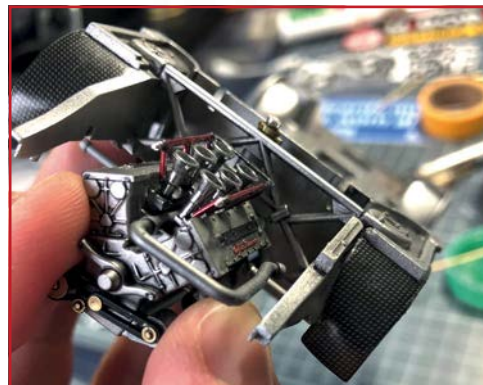
Metal trumpets were fitted, but later rejected due to clearance issues. Fuel rails were also modified to have a lower fitment point



A quick mock-up determines that the exhausts were aligned correctly, as the author had chosen to glue the complete exhaust together before painting to remove and visible joins once assembled



Checking the engine location before final fitment takes place. Being a typical Tamiya kit there were no surprises



Engine sits low in the chassis and with the kit trumpets re-installed there should be no clearance issues. More Studio 27 CF decals were used on the wheel arches as well



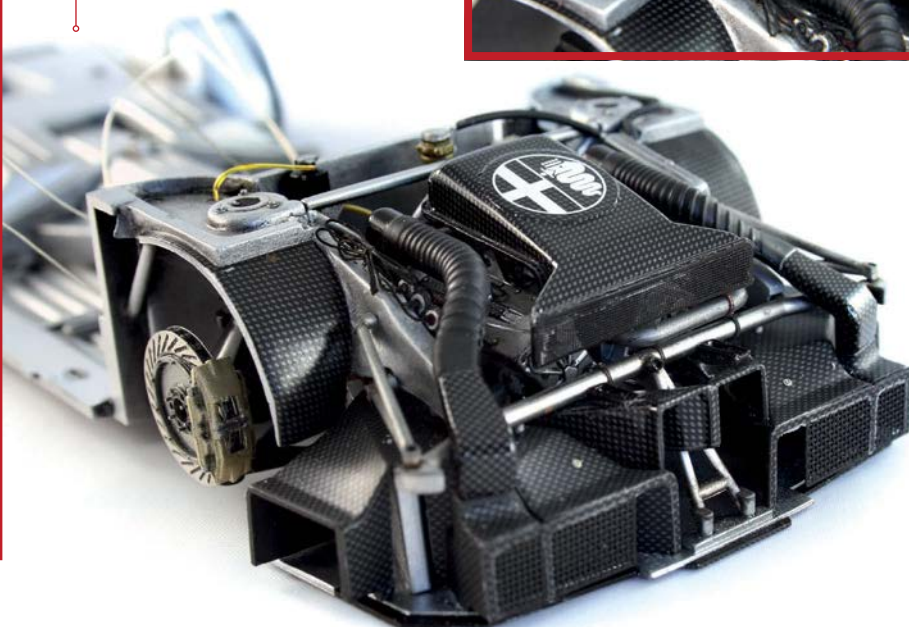
After being painted with Zero Paints Semi Gloss black, Studio 27 carbon fibre decals were applied to the air box before the kit provided Alfa Romeo emblem decal was applied



Plenty of Studio 27 carbon fibre was used around the engine bay. Different levels of gloss were then applied to break it up a bit

Further wiring was added for the electrics under the air box and the engine bay is nearly complete

The anti-roll bar linkage was all scratchbuilt from various tubes and wires and fitted at the rear of the engine bay. RB Motion fittings were used to link it all together





## ◀ INTO THE CABIN

Fitting the air intakes brought the engine bay work to an end (or so I thought), moving me on to the interior. With it being a race car, there's a lot going on in here. Tamiya have done a good job in trying to represent this, but as with other areas I wanted to take it further. The Hobby Design set was the perfect start with resin electrical boxes, turned metal switches and a host of photo-etch. A quick rummage through my wiring box found a variety

of different types to bring it all together.

Work started on the dash. I decided to cut out the vent areas and replace them with sheet styrene, positioned to look open. Covered with carbon fibre decals and clear coated it was ready for the details - some from the HD set, others from the Studio 27 set and a few extra knobs and buttons thrown in for good measure.

The rest of the interior followed. I'd seen lots of reference photos showing a fire extinguisher behind the driver's

seat. Thinking it would look good in the model, I sourced a set from Hobby Design and set about installing it. This required further wiring adding, leading me to scratchbuild an emergency switch for this next to the driver's seat. Being a prominent part of the interior, it was worth the effort. More studying of my reference photos drove me to add details like the heat protection below the gear lever, along with modifying the gear lever itself. The interior tub was now getting close to completion. ▶

### Cabin upgrades



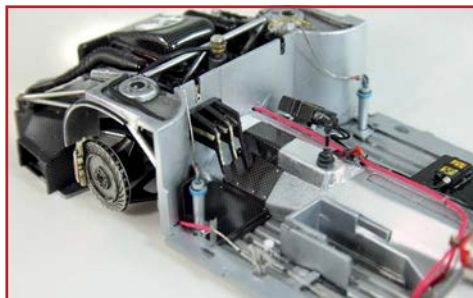
A small selection of parts are all detail painted and decalled ready to be fitted



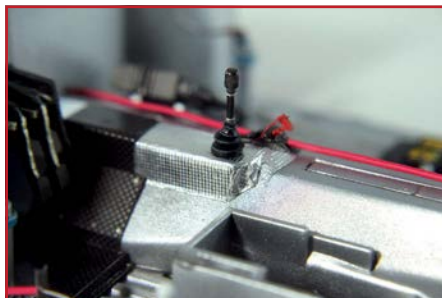
Hobby Design switches and buttons make for excellent additions and really bring the dash area to life. A fine brush and steady hand were then required to paint the red lines around them



Painted with Zero Paints matt black and covered with micro-balloons, the seat was then finished off with PE buckles and 2mm red ribbon.



Hobby Design really know how to bring interiors to life, with this being no exception. Of course, a few extra bits of photo-etch, carbon decals and wiring were added for good measure



Following reference photos, the gear lever was cut into three sections and photo-etch washers added in between. A safety switch was then scratch-built for the fire safety system



A Hobby Design set in its own right, a fire extinguisher is a great addition to any race car, all plumbed in with some spare wire



Practically invisible once all assembled, the anti-roll bar levers are works of art in their own right. Multiple PE pieces and handles cut from the original kit parts make up the assembly



Photo-etch buckles help secure the fire extinguisher in place after it was all painted up. Hobby Design even thought to include a safety clip on the handle



Electronics boxes were treated to some Scale Motorsport CF decals and then matt clear-coated with Tamiya X-86 Flat Clear before the additional wiring was added



Test fitting the roll cage and seat was an important step while locating the fire extinguisher and planning the cable routes

Just a few of the additions to the interior can be spotted when it's all together. The steering wheel was treated in the same way as the seat with micro-balloons applied over Zero Paints matt black





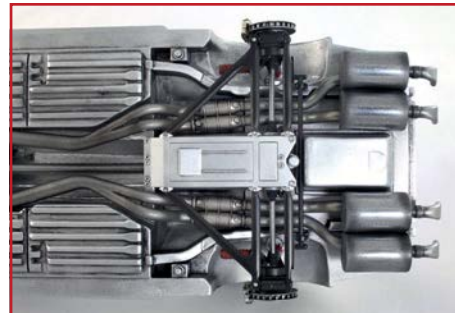
## Finishing the exhausts



The main sections of the exhaust pipework were glued together before painting. This allows for any joints to be eliminated and give a smoother look



All the brake and suspension pieces were painted together, along with the exhaust ends. Extra pieces were painted up to compare between the HD and ST27 sets



The rear suspension is complete and exhausts are routed through. Heat staining was applied using various Alclad II shades to break up the silver tones of the exhausts.

## ● DRESSING UP THE SEAT

The seat was up next. SMS carbon Kevlar was added to the back and once cleared and masked off, the front was painted matt black, with micro balloons applied over the wet paint to give it some texture. Once dry, they were sealed with more matt black. The HD set came into its own again with some PE buckles for the harnesses. Along with some 2mm ribbon, these are a marked improvement over the kit supplied decals.

As work continued on the interior, one particular part stood out to me – the anti-roll bar linkage. Researching this and its operation moved me back

to the engine bay. Lurking behind the main air scoop is the mechanism for this. With nothing to represent it in the kit, I got some various diameter tubing, RB Motion fittings, some PE linkages, Top Studio rivets and some extra wiring and attempted to replicate this complex looking area.

Eventually, I was ready to close the interior up. The door panels were covered with Bare Metal Foil to resemble the bare aluminium on the originals. With a couple of scratch-built window winders and a few bits of PE later I was happy with them. Time to move on to the exterior.

## Preparing the bodyshell



Tiny rivets were added around the wheel arches, fitted into drilled holes



Zero Paints' Pink Primer was used as an overall undercoat



Zero Paints' Alfa Rosso Red formed the body colour

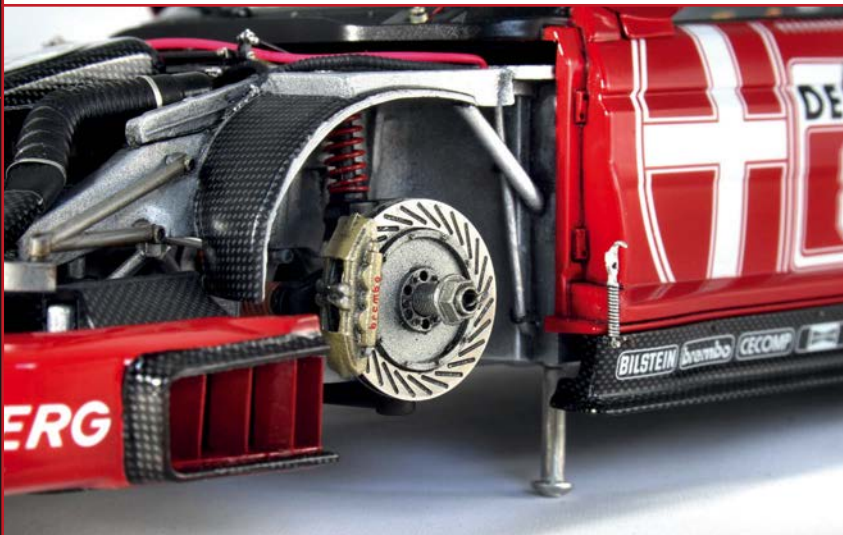
## ZERO PAINTS ALFA ROSSO RED

The ST27 set had some PE parts to attach to the arches, which I'd not seen before. After a quick check, I found the real ones were fitted with a series of rivets, so holes were drilled ready to take some Top Studio metal fixings. The rest of the bodywork got similar treatment ready for all the extra parts I wanted to fit. Next came paint and decals. Zero Paints Alfa Rosso Red was the paint of choice. After a protective primer coat, the red was sprayed over the body panels ready for decals to be applied.

With the Cartograf decals going down flawlessly, the body was left for a few days and then a few coats of Zero Paints' 2k Diamond clear were applied. Having excellent levelling properties meant that little work had to be done to get the smooth gloss finish I was looking for.

With that set aside to cure I started on the wheels. I chose to go with Hobby Design ones just to be different. Supplied with detailed centre bolts, I set about weathering them. With PE added and wiring for the thread they were ready. Now for the final touches. A PE wiper from the ST27 set, aerials from Hobby Design, some white metal clips, an air jack from Scale Productions and some more rivets were the final touches to complete the model. ●





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## FULL-BUILD: DTM MOTORSPORT

TAMIYA 1:24 ALFA ROMEO 155 V6 TI ● KIT NO.24137



### TECHSPEC...

TAMIYA 1:24 ALFA ROMEO 155 V6 TI KIT NO.24137

#### Materials;

Injection-moulded polystyrene, polycaps, synthetic rubber tyres, waterslide decals

#### Paints used:

Zero Paints: Pink Primer, Alfa Rosso Red

#### Accessories used:

Studio 27, Hobby Design

#### Availability:

- Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)
- Zero Paints, Studio 27, Hobby Design: [www.hiroboy.com](http://www.hiroboy.com)

### FINAL THOUGHTS

All in all, this was an excellent kit to build and I thoroughly enjoyed it. The base kit, despite being over twenty-five years old, still holds its own against many modern kits, with the added benefit of having full engine detail. Both the Hobby Design and Studio 27 sets bring a lot to the table in their own ways and I was pleased to have no issues with fitment of any of the extra parts, as can often be the case with these things. ●









**Revell**

*Build Your Dream!*

LEVEL 4  
■■■■■

NEW PARTS



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

LEVEL 5  
■■■■■



04977 B-25D Mitchell, 1:48

LEVEL 4  
■■■■■

NEW PARTS



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

LEVEL 5  
■■■■■



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

LEVEL 3  
■■■■■

NEW TOOL



07047 Land Rover Series III LWB, 1:24

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**hobbycraft**

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



**FULL-BUILD: NAUTICAL DIORAMA**

**REVELL 1:72 GERMAN SUBMARINE DEUTSCHES U-BOOT VII C WOLF PACK/DIE GRAUEN WÖLFE ● KIT NO.05015**



**DRO**





**Scott Withers** describes the creation of his magnificent 'Drowning Wolf' diorama, featuring Revell's 1:72 Type VIIC U-boat

# DROWNING WOLF



A few years ago, while researching photos to use as a reference for my first big 1:72 Revell VIIC, I came across a captivating photo of a sinking WWII German submarine. It showed a stricken boat struggling to stay afloat as a group of sailors fought to escape the slowly sinking wreck. In the middle of a calm sea, the men raced to board individual rafts or simply to jump overboard for their lives. This was the U-625.

The image stuck in my head. As both a scale modeller and a lover of WWII history, the scene represented an opportunity to not only challenge my modelling skills but to tell a story: a story of panic, loss, desperation and survival. The hunter had now become the hunted, with some – like the U-625 – left to fight for its life while its attackers coldly circled above to ensure the threat was neutralised.

Before beginning on the actual model, I started to plan the construction of the seascape. The sea surface was perhaps the biggest challenge to making the scene come to life. The sea needed to be a calm, glossy sea which posed a sculpting challenge; any imperfections in texture would telegraph right through the gloss (even brush strokes would show through so I resolved to airbrush the colour when it came time to paint). Using my 3D model as a guide to overall size, I found some inexpensive pre-made art to act as my seascape frame. The foam was cut to size with the help of a hot-wire foam cutter.

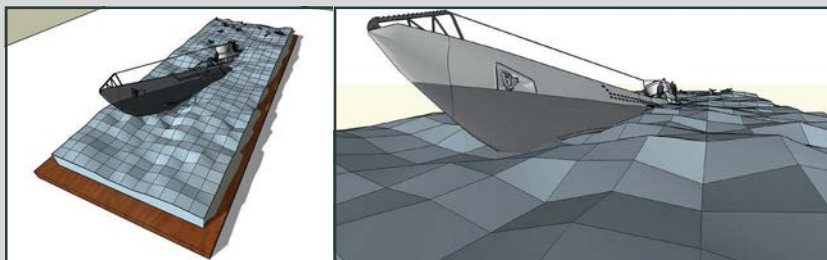
### PREPARING REVELL'S U-BOAT

I was now ready for the submarine. I began with Revell's classic 1:72 VIIC U-boat (05015). There were some big challenges in my mind when setting out on the project. The overall scene would be simple: basically, just a long, listing, black submarine on a calm North Atlantic sea. Without proper attention to detail, it might be boring. Therefore, both the submarine and the sea surface had to have enough detail and visual interest to hold the viewer's attention. I was now confident that the sea would be convincing, but what could I do to enhance the sub? For that, I chose to upgrade to a Nautilus wood deck and the Eduard photo-etched set to add detail.

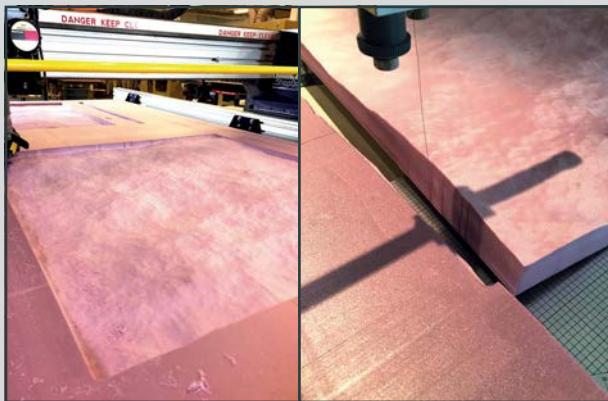
I did extensive research on both the U-625 and on build techniques to enhance the accuracy of the base model. This research yielded some great information and one friendship. My (now) friend and fellow modeller Glenn Cauley (Canada) provided countless tips both on historical accuracy as well as build techniques for the boat itself. And in a miraculous twist: Glenn's father Frank was the navigator aboard the Canadian Short Sunderland flying-boat that sank the actual U-625! Inspiration and guidance was also found in the amazing talent of Dutch modeller Karel Ton.

One of the spare sections of hull was a perfect place for testing painting and weathering techniques before applying them to the model. I planned on painting this boat completely differently to my last big U-boat, so I was in uncharted water with my techniques. I took a number of cues from Dutch modeller Karel Ton's beautiful build of his U-995 a few years ago. ▶

### The author describes the creation of the seascape



I started by creating a rough 3D model in a program called 'Sketchup' to study composition and overall diorama size. I initially planned to build the actual U-625, a task which would have required a different conning tower arrangement among other mods. But, the necessary pieces and parts were no longer available, so I decided to build a generic configuration; one that would capture the spirit of the tragedy while allowing some artistic license.



I knew I didn't have the skills to manually achieve the sea I envisioned, so I took the opportunity to try something I'd been dying to explore: I had the sea CNC routed using a 3D model downloaded from the internet. In this way, the foam was carved with photorealistic precision requiring very little in the way of preparation for paint.



Next came the task of cutting the hole in the seascape foam to receive the boat. I'd only get one chance at cutting the hole correctly so I knew it would require practice. Due to the model penetrating the two-inch foam at an angle, the foam would need to be contoured and undercut near the stern. This second test helped me figure all that out before I cut the actual piece. Finally the seascape was cut. At last it was time to paint and weather the model.

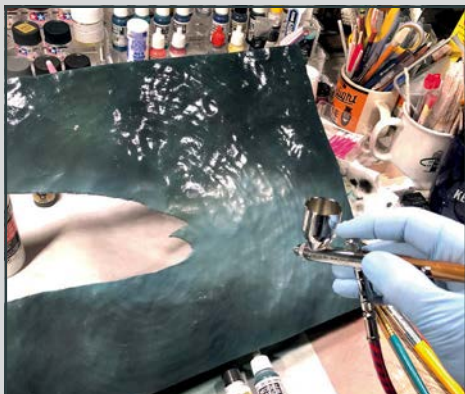




I was now ready to paint the seascape. The foam seascape was prepped with gesso using a foam paint roller in order to avoid brush strokes in the gesso. I knew I wanted a cold, dark north Atlantic sea and that the colours needed to complement to boat



I built up the above colours using a pre-shading concept, allowing each airbrushed layer to show through each subsequent layer. The colours were deepened with multiple layers of high gloss varnish



There was one detail on the seascape that I wracked my brains over: how to create ripples emanating from the wreck. All the reference photos I found of similar sinkings showed the same radiating ripple patterns. After much experimenting, I discovered that I could use the back end of a large paintbrush to 'draw' ripples in the foam



Around the same time, I started working out a composition for the whitewater by laying loose cotton all over the seascape. After I arrived at a good layout, I began fixing the whitewater in layers using gloss gel medium (a technique I borrowed from the great modeller Chris Flodberg). In some areas, like the rear wake above, I applied a thinned layer of deep sea blue over the cotton to tone down the brightness and to give the look of a deep churn



The rest of the white-water proceeded layer by layer, using reference photos as a guide. I continued to apply multiple coats of high gloss varnish over the cotton to give a sense of depth. The water soon started to look as though it was made of resin. When the white-water was finally complete, I anchored the aft rigging lines and the starboard side railing lines into the seascape using sewing needles, making them look as though they were disappearing into the water. Lastly, I needed to bring the dio to life by adding the escaping crew



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### ❶ CORROSION TEXTURES

I began by creating some corrosion texture in certain areas by mixing rust coloured pigment with acrylic resin. This would mostly be covered by the hull base colour, but some might become visible through chipping so I wanted the colour to read true in that case. A base coat of Vallejo German Grey was then laid down for the lower hull. Next came a thin layer of Tamiya Dark Sea Grey airbrushed over the German Grey. This was immediately wiped off with a wet cloth after applying. Next came the upper hull colour. A layer of Vallejo Light Grey acted as a base colour. Highlights were created by tinting the base colour with white. This was then rubbed with a wet cloth to distress the surface. Next, a thinned layer of Tamiya Flat White was airbrushed on over some AK Worn Effects Chipping Fluid. It was then chipped using water and an old paintbrush. The result was now beginning to look like old, weathered paint. I then started on topside weathering.

The decal emblem was applied, and a worn area on the periscope was created with some AK True Metal Wax. The conning tower deck masking was then removed (for good this time). The deck was stained the same way as the main deck, and the wood panelling (also from the Nautilus deck set) was stained and glued in place. (Interesting note: watch for that flagpole to disappear soon. I slowly made the realisation that the pole would not be in place at sea so it got snapped off later). The next stage of streaking then began, this time using strictly pigments. Here I'm using AIM Grimy Black and Mig Rocket Exhaust to create random stains. Areas of rust were then created using AK Rust Streaks and Wilder AquaLine Series Brown Rust.

### FURTHER WEATHERING

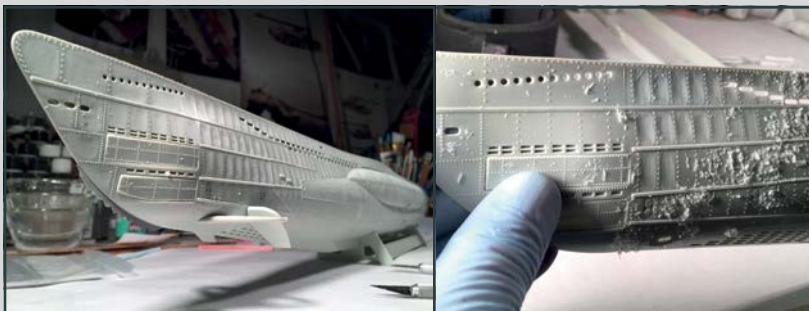
First off, I applied a few coats of Vallejo's Light Grey wash on the conning tower to unify the existing layers of paint. Weathering continued with the same pigments I used on the hull. Additionally, rust streaks and fading were added in areas with the use of Vallejo's Rust wash. It was during this phase that I altered the bell cord to hang at an angle instead of straight down as it was moulded. The weathering was finally complete on the sub. Now it was time to attach the rigging and finish the seascape. I chose EZLine (heavy, black) rigging as an upgrade to the kit-supplied string due to its elastic quality. I used it for both the rigging and railings. I made sure I had enough slack on the aft rigging so that it would disappear into the waves at the correct positions.

Photos of the U-625 acted as my main reference. After a bit of trial and error with the figures, I arrived at an arrangement that I could use without having to structurally modify the figures. Which is a good thing, because I needed to save my energy for what was yet to come. The figures were primed and I moved on to the rafts. The Kriegsmarine life rafts were a unique shape and size and I knew it would be a challenge to create these. Incidentally it was difficult to refer to the photo above. That is a group of U-625 survivors huddled together after escaping the boat. None would survive; they lost their lives in a storm shortly afterward. I tried a number of things from balloon parts to moulded putty, but I couldn't get the shape just right. ▶

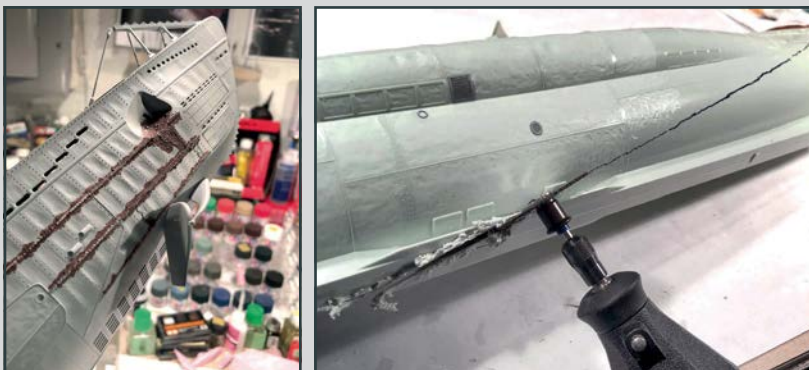
### Building the U-boat



Work began by drilling out, filing and thinning the spillage port holes and their surrounding plastic



Next began the task of "oil canning" the hull. This was the painstaking process of scraping away sections of plastic along the hull to create the effect of pressure damage and buckling of the hull plates. This was done with an X-Acto knife followed by sanding the areas smooth



Further texturing of the saddle tanks and other hull surfaces was created using a Dremel to roughen the surface, followed by sanding

Using a laser level, I located the sea level in the diorama. This showed me where I could stop the texturing process on the hull, since she's sinking



Work then continued on the stabilizers and the bow net cutter, substituting wire rod for the long support and introducing some of the Eduard PE parts

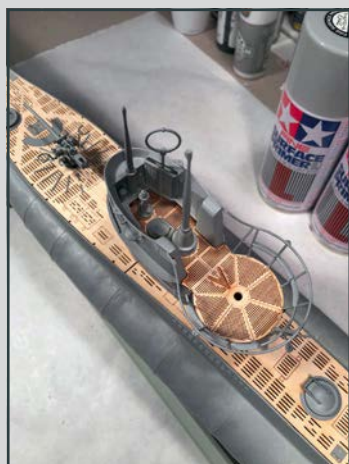




Kit parts were cannibalized for use with the Nautilus wood deck upgrade. The conning tower came together nicely. A small amount of sanding on the wood deck tabs was needed to create a snug fit between the upper and lower halves.

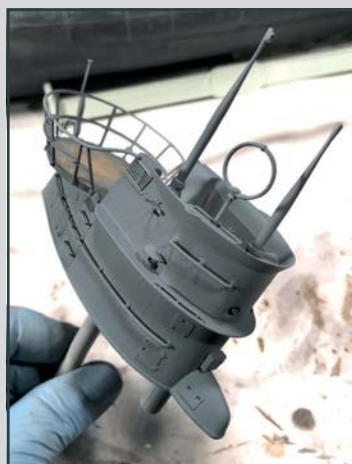


The wooden areas were masked off for protection and the tower fitted up with some PE detailing in preparation for priming and painting



The boat was primed with Tamiya rattle can Fine Primer. I got so excited after priming that I removed the conning tower deck mask too early, forgetting that it still had to be painted! I ended up re-masking it again later

The conning tower then received a base coat of Tamiya Neutral Grey, followed by highlights created by mixing the base colour with white. Then, chipping fluid and some thinned Tamiya Flat White was applied to give a distressed, whitewashed look



Structural bracing was added to the interior using thick sheet styrene to help hold the hull together once the aft end of the sub was cut off



For the figures, I chose a few sets on Shapeways from a seller by the name of "Panzer VS Tanks." They offered a wide range of poses that I hoped would give me lots of composition options



Streaking then began on the hull. For this I used Mig Ammo's Engine Grime. Very thin, close vertical lines were painted with the help of a drafting triangle to speed the process and ensure consistent, true verticals



The Nautilus wood deck was stained with Minwax 'Jacobean' and 'Ebony' stains. Darker accents were created with AK Naval Series 301 Dark Wash for Wood Deck. To give the effect of dried salt water, I applied thinned white oil paint from a Mig Ammo Oil Brusher





## FULL-BUILD: NAUTICAL DIORAMA

REVELL 1:72 GERMAN SUBMARINE DEUTSCHES U-BOOT VII C WOLF PACK/DIE GRAUEN WÖLFE ● KIT NO.05015

### FINAL STEPS

So I decided to ask a modeller at Shapeways named diStefan to create them for me. They were just what I needed. I also discovered that by applying a little heat, I could bend them just enough have them lay neatly over the waves. I then painted the figures and added scratchbuilt life vests, crafted from lead foil, strips of tape, and some leather bead cord. The ends of the cord (used for the neck rest) were rounded by dipping them in Micro Kristal Klear. Lastly, I scratch built some raft paddles from wire and tape. At last she was done. I fixed the figures and rafts in place, and added more ripples around the solo raft off of the port side. Cue the 'Das Boot' soundtrack! ●

### TECHSPEC...

REVELL 1:72 GERMAN SUBMARINE  
DEUTSCHES U-BOOT VII C WOLF PACK/  
DIE GRAUEN WÖLFE KIT NO.05015

#### Materials;

Injection-moulded polystyrene, waterslide  
decals

#### Paints used:

- Tamiya Acrylics: XF-63 German Grey, XF-54 Dark Sea Grey
- Vallejo: German Grey

#### Accessories used:

- Eduard: U-boat VII C (53008)

#### Availability;

- Revell models are widely available from good model shops and online.  
[www.revell.de/en](http://www.revell.de/en)
- Eduard: [www.creativemodels.co.uk](http://www.creativemodels.co.uk)  
[www.eduard.com](http://www.eduard.com)
- Nautilus Models: [www.nautilusmodels.com](http://www.nautilusmodels.com)







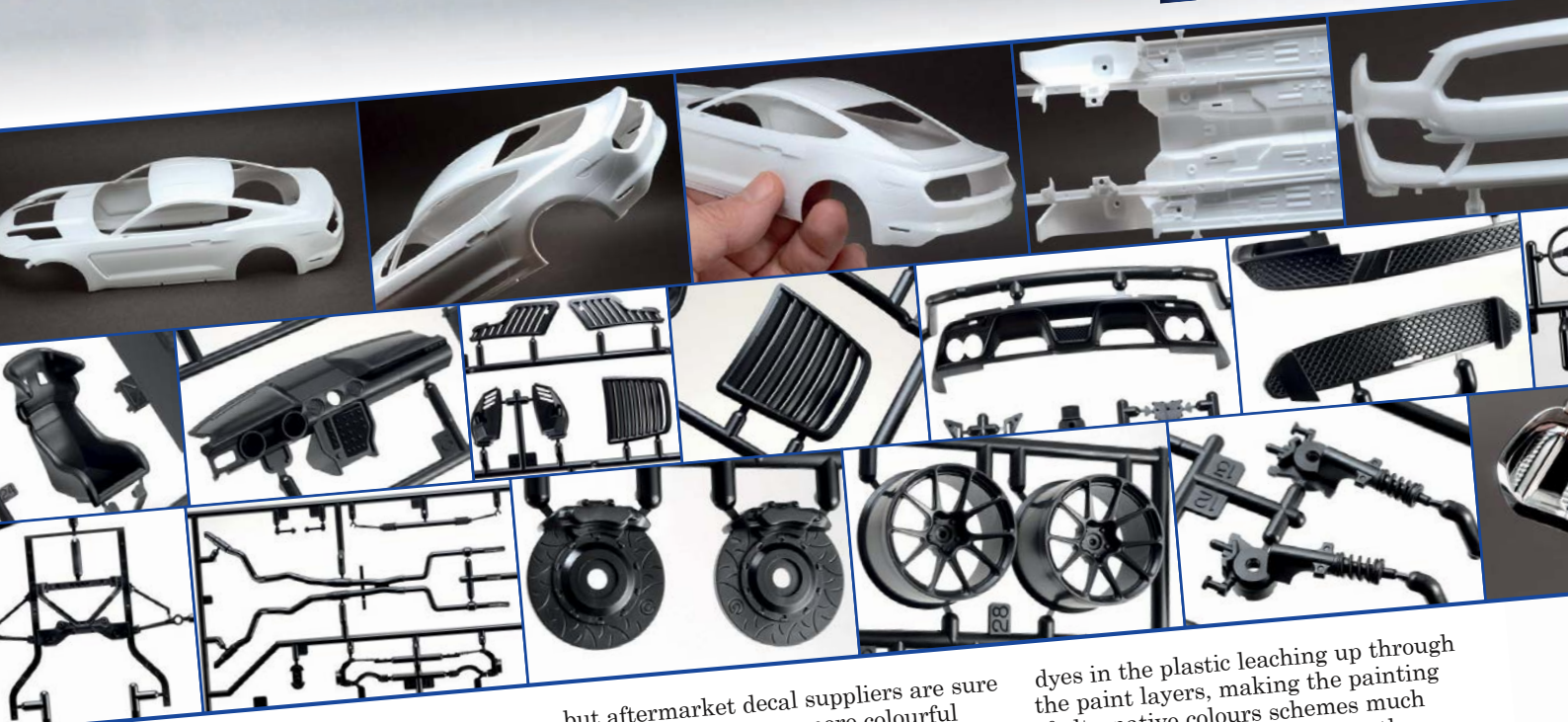


# KIT PREVIEW: MODEL MOTORSPORT

## TAMIYA 1:24 FORD MUSTANG GT4 ● KIT NO.24354



# WILD



**T**he actual car comes as a race-ready machine, featuring plenty of aerodynamic elements including front spoiler, rear wing and diffuser, high-performance brakes, lightweight carbon fibre vented bonnet, roof, door panels and more, plus a big 5.2-litre V8 engine in the front. Tamiya's kit new 1:24 recreates the 2019 Mustang and can be finished as the No.17 car in overall grey as it appeared at the Goodwood Festival and also the white No.18 car in the official Ford scheme. Neither are particularly eye-popping

but aftermarket decal suppliers are sure to come up with some more colourful liveries in the near future.

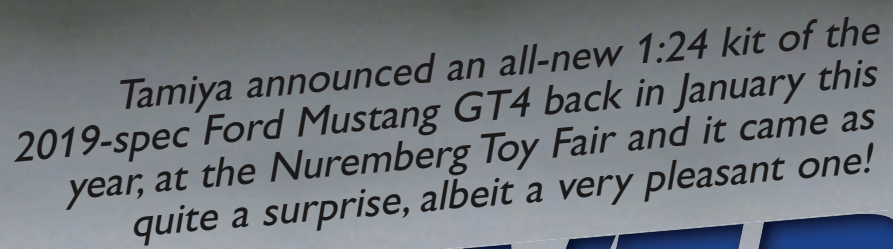
A complete engine isn't included, just the lower mechanical areas such as gearbox and sump, but the suspension and drivetrain are beautifully depicted and more than satisfy the eye when inspecting the Mustang's belly.

The bodyshell looks superb and captures the muscular profile of the real machine perfectly; Tamiya's designers have really done their homework here. It comes moulded in white polystyrene which obviates the risk of coloured

dyes in the plastic leaching up through the paint layers, making the painting of alternative colours schemes much of confidence-inspiring. Check out the photos of the parts here and you can tell this is another classy production for Tamiya's iconic 1:24 Sports Car Series. The full, blow-by-blow article will follow soon, in TMMI, naturally! ●

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





quite a surprise, albeit a...

# HORSE POWER





# PETIT FILO

Marcus Nicholls builds, paints and weathers-up Tamiya's 'little rascal', the all-new R35 Light Tank in 1:35

Until 1935, the little vintage Renault FT was the staple of the French tank force. On the mainland, it had been upgraded as the rearmoured FT31 but, throughout the colonies, it was left unchanged since 1918. It was clear by 1932 that the newly tested Renault tanks, like the NC27, were not sufficient for the task demanded of them. They were too heavy, complex, costly and, therefore, not suited for mass-production. The original requirements dated back from 1926 and asked for a 'char d'accompagnement' (support tank) that could replace the FT and still operate in the same manner. However, with the increase in AT gun calibre and velocity, the emphasis was put on protection. In early 1933, Hotchkiss proposed a solution, with an affordable small tank which turned the table. But instead of purchasing some directly, for political reasons and due to the contract size, other contractors were asked in August 1933 to present their own model. Fourteen responded, ranging from automotive companies to small armouries. ▶





# U!



Historical introduction kindly  
provided by David Bocquet from  
[www.tanks-encyclopedia.com](http://www.tanks-encyclopedia.com)



## FULL-BUILD: WW2 FRENCH ARMOUR

### TAMIYA 1:35 FRENCH LIGHT TANK R35 ● KIT NO.35373

❶ Renault, badly wanting this contract, rushed a prototype which was ready when a new specification was emitted on June 21st, 1934. It asked for an increase in armour, from 30mm to 40mm (1.18-1.57 in). Renault could not revise the design on time and was the first to present its ZM prototype to the Commission de Vincennes, on 20 December 1934. The model performed well, but was sent back to the factory for add-on armour and mounting the new APX (Atelier de Rueil) cast turret in April 1935. Tests were then resumed when, due to the growing tensions caused by the swift and massive German rearmament, the commission awarded the new tank a contract for 300 machines as the R35, on 29 April 1935. This was before the model could be perfected by Renault for pre-production. By 4 June 1936, the first delivered were promptly tested and modifications performed during production. Contrary to the Hotchkiss H35, it was also produced for export.

#### R35 TECHNICAL SPEC

The R35 bears a strong resemblance to its rival, the Hotchkiss H35. They shared the same APX turret, the three-module hull construction and placement for the driver and engine. However, their dimensions differed, as well as the placement of the hull casemate, placed further to the rear for the Renault and, most obviously, the drivetrain. The hull was made of three main prefabricated cast sections bolted together, while on the H35 these were welded. This helped improve production times. Everything else was welded-on. Maximum thickness on the glacis was 43mm (1.69 in), and 40mm to 30mm (1.57-1.18 in) on the hull lower sides, rear and engine deck. The turret itself was made of hard cast iron, 30mm (1.18 in) thick.

The turret received a dome-like rotatable cupola with vertical vision slits. It was free running on a ball track ring, either traversed by the weight of the commander or cranked more precisely for aiming. The commander normally stood on the tank floor. As customary in French practice, the turret had a rear hatch that could be hinged down, allowing the commander to sit on it, legs inside, for external observation. The early turret model was the APX-R, equipped with a L713 sight, mounting the short barrel 37mm (1.46 in) Puteaux L/21 SA-18 and a coaxial 7.5mm (0.29 in) Châtelleraut fortress machine-gun. This main gun was effective only against concrete fortifications at relatively short range, as muzzle velocity was only 300m/s (984 ft/s). At best only 12mm (0.47 in) of armour could be defeated at less than 500m (1,640 ft). Once again, it was due to tactical

#### Building the R35's hull



The kit's lower hull builds up from a belly plate, sidewalls and rear panel with a bracing panel internally. Two parts (B56, B44) attach to the upper hull sides to form the overhang and where they join, a little re-texturing will be needed to conceal the cemented line

The rear panel, along with most of the upper hull and nose are covered with a finely rendered cast-steel effect that doesn't require any additional texturing by the modeller



These views show the assembled model minus tracks; the areas of grey are patches of Mr Surfacer 500, used to fully close-up cement-lines. The figure has been temporarily fitted in the turret hatch and his presence shows us how small the little R35 really was



limitations. It was never intended to deal with other tanks. Normal provision of ammo was seventy-two AP and fifty-eight HE rounds plus 2,400 cartridges.

## THE R35 IN ACTION

At the time of the May 1940 German attack on France, the French army had 900 R35s in service, then the most numerous model available. According to the French military doctrine, it was to be used only for direct infantry support. However, its gun proved to be able to defeat Panzers I and II, while the frontal armour could withstand even a direct hit from the standard 37mm (1.46 in). The R35 equipped the 1st, 2nd, 3rd, 4th, 5th, 7th, 8th and 9th 'Armées', plus the 'Armée des Alpes' facing the Italian border, into Groupements de Bataillons de Chars. These were strictly tank units without other organic component and only committed to infantry support in close coordination with infantry units. However, on 15th May, when it was clear that the doctrine was failing, 135 R35s from the 2nd, 24th and 44th BCC were allocated to a newly formed 4th DCR (Division Cuirassée de Réserve) while two others (40 and 48 BCC) reinforced the 2nd DCR. Later, 300 tanks from the matériel reserve were also reserved these new units. Many R35s were also found in the Colonies. The 63rd and 68th BCC were in Syria (95 tanks) and the 62nd BCC in Morocco with thirty tanks. The irony was the first faced Australian troops during the Allied invasion of that mandate territory in 1941, while the others faced American troops in November 1942 (operation Torch). Later on, the Free French 1st CCC constituted a unit with available R35s for operations in this sector.

## WITH THE AXIS: NAZI GERMANY

The German army snapped up no fewer than 843 R35s, according to the Waffenamt, in the aftermath of the French surrender. 131 of these used directly as Panzerkampfwagen 35R 731(f) for security, mainly in France, close to their spare parts base, but also in the Balkans and possibly in the conquered territories of Russia for anti-partisan operations. Others served as driver training turretless vehicles, while their turrets found an application on various armoured trains, yet again, against the French resistance or partisans throughout Europe. Other turrets were used as pillboxes in various strategic positions in France and the Netherlands. Fourteen of these driver training vehicle, still with their turrets, saw action at Sainte Mère Église with the 1057th Grenadier Regiment on 6th, June, 1944.

David Bocquetlet.



Just visible here atop the fender (centre of image) is the cable conduit for the horn, made from lead solder-wire and fixed in place with cyanoacrylate glue



The few additional details added by the author include resin bolts on the fender support bracket and done-headed bolts on the final drive housing, all seen in grey



The jack, crank and jack bracket are best painted off the model so the complex camouflage can be more easily applied behind them

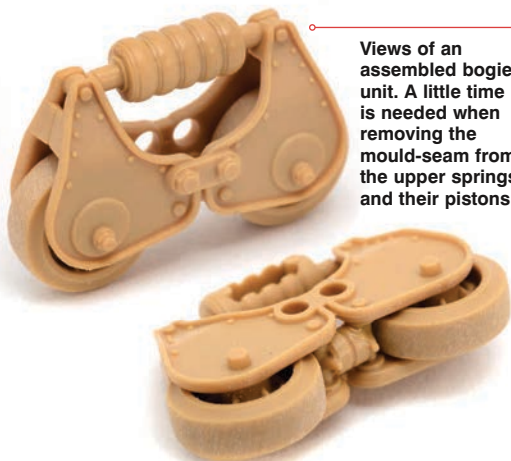
## Assembling and up-detailing the running gear



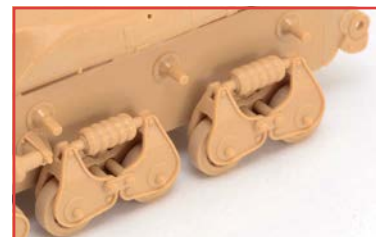
Here we see one of the five (per side) roadwheels. In reality the tyres were fitted with solid rubber tyres, so the running faces were lightly sanded which removes the mould part-line and also imparts a subtle texture. Some of the sanding dust is still present!



Here we see the sequence of assembly; a pair of prepared wheels are placed on their spindles on the inner bogie half and the outer bogie half is then cemented in place. Take great care when applying cement to the lower spring/shock absorber (?) as it can easily get onto the wheel rims and glue them up solid. It's best to have the wheels spinning freely to ease the painting process



Views of an assembled bogie unit. A little time is needed when removing the mould-seam from the upper springs and their pistons



Each bogie mounts on a pair of stub-axes that are moulded in with the lower hull panel. It's best to apply small drops of a semi-liquid cement such as Revell's excellent 'Contacta' to the tip of each axle, then mount the bogie, taking care not to get any cement on the roadwheel tyres in the process



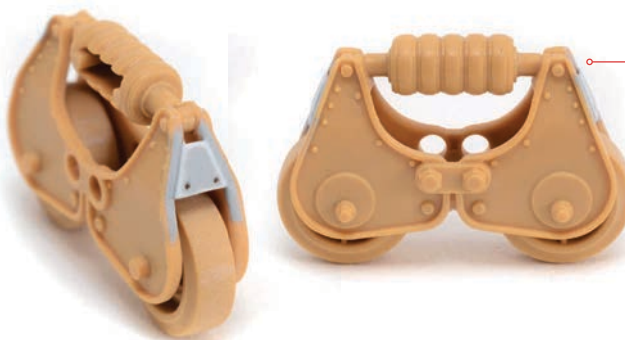
# FULL-BUILD: WW2 FRENCH ARMOUR

## TAMIYA 1:35 FRENCH LIGHT TANK R35 ● KIT NO.35373

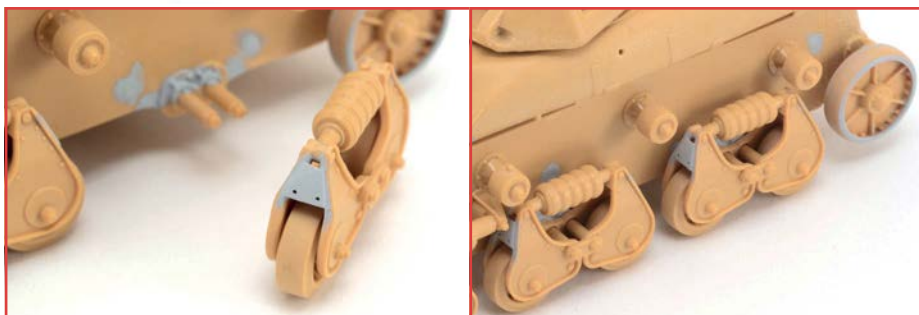
### ❶ TAMIYA'S ALL-NEW R35 IN 1:35

Tamiya now list four kits of French tracked military vehicles in the 1:35 Military Miniatures Series; the Char B1 bis (35282), Armoured Carrier (Renault) UE (35284), Somua Medium Tank S35 (35344) and now the (Renault) R35 Light Tank (35373). Although spread over seventeen years, these models do prove that Tamiya are confident enough to create 1:35 tank kits of subjects other than Shermans, Tigers and Panthers, offering something a little more offbeat and exotic for our scale modelling tastebuds.

I have to admit to a little reticence when contemplating this new kit build for TMMI, but not for the build-up; being a new-tool model from Tamiya, I knew it would present few if any assembly challenges (it didn't) but more for the paint scheme. I masked/sprayed the colours on the Tamiya Somua S35 that I built for review back in TMMI 235, May 2015 and I was never quite happy with the outcome. I think I spent as much time correcting and adjusting the overspray as the entire airbrushing procedure. So, this time I decided to hand-paint the camouflage but instead of Tamiya's own, excellent XF acrylic range, I would use Vallejo acrylics. Tamiya's paints work brilliantly when correctly thinned and airbrushed but I never quite got the hang of hand-painting them, although this is perfectly possible. Vallejo's paints, however, are a joy to brush-paint and behave in a similar manner to the old Humbrol formulations, apart from not being easily re-solvable with thinners for minor adjustments.



The bogie modules are generally well detailed but the trapezoidal panels where the front and back bogie halves join could use a little extra attention. New panels were made from thin plastic card and cemented over the top of the kit parts. A pair of holes on each new panel completes the upgrade



The grey areas are layers of Mr Surfacer 500, a semi-liquid, paintable primer/filler that was used to seal up any gaps where the new panels were fitted. More applications of Mr Surfacer were used on the hull sides to fill ejector-pin marks, but in practice, these are hidden by the bogies when in place



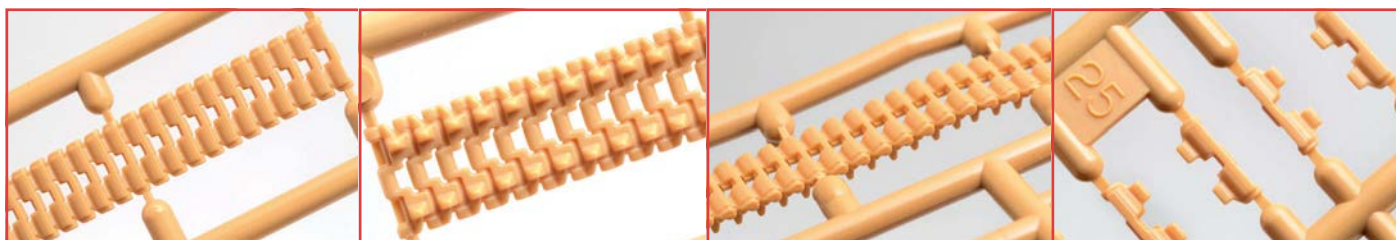
The front suspension units feature a single wheel but the assembly process is similar to the main bogies. More Mr Surfacer 500 was later applied to the joins between front and back halves



The rear-mounted idler wheels are built up from three parts; an inner disc plus a pair of outer rims. Once the cement had dried, the joins between layers were filled (yep, more Mr Surfacer 500) then sanded to create the appearance of a one-piece outer rim



The drive sprockets must be fitted early in the assembly sequence to allow the mud scrapers to be positioned. The latter create a minor cement line when fitted (visible in the above left image), so yet more Mr Surfacer 500 was applied to conceal this (above right). These little attentions to detail add up to create a more realistic look to the finished model



Tamiya's R35 kit comes with link-and-length tracks, moulded in standard kit polystyrene. These offer a very effective solution for the tracks and are better than one-piece vinyl tracks in every possible way, except perhaps from speed of fitting. For the ultimate realism however, nothing can beat a set of Friulmodel or MasterClub cast metal links. Friulmodel's set ATL-168 were used on this kit and they fitted perfectly



## LET'S BUILD IT!

Before I talk about the paint, let's briefly discuss the assembly of the model. Things kick off with the hull and here we have a multi-panel design with textured sections representing the cast steel portions of the tank. No problems at all, but don't forget to open up the pair of 1.2mm holes in the upper hull sides for the lifting lugs (?) fitted later on. Tweezers will be essential when fitting the small components to the rear idler brackets, most notably parts B2/3 and A11 x2. The instructions illustrate their precise locations but getting them there will require some delicate manipulation. The edges and ends of the track guards were bent around a little using a pair of small pliers to impart some dents and dings where the tank might have run up against undergrowth and

other objects. The same was done to the stowage boxes mounted atop the guards but this barely shows on the finished model...

The exhaust was built up but not yet fixed to the model, as I intended to paint it using a pinkish-grey mixture I had made to depict this peculiar shade sometimes seen on exhaust piping. The mixture needs to be airbrushed, hence the requirement to paint the assembly individually. Joining the upper and lower halves of the 'Puteaux APX-R' turret creates a visible seam which will need to be concealed, then re-textured. This is a fairly straightforward process and Mr Surfacer 500 is ideal for the task. If you don't have this product, you can use a modelling knife to scrape shavings from a length of waste sprue, dissolve it in liquid cement (use lots of ventilation in your work area when

doing this) then 'paint' the resultant slurry over the joint. It will take at least two days to harden but does work well and it's effectively free!

Only a few, very minor modifications were made to the model: the backing panel behind the tool rack was carved away (although in retrospect I'm not sure if I was correct in doing this), the horn was given a cable using lead wire, the three bolts on each forward fender bracket were replaced with larger and better detailed resin items (from the spares box) and large rivets were added to the front edges of the final drive housings (shown in the accompanying photographs). As this article was being written, aftermarket suppliers were developing various upgrades and details for this kit, most notably a 3D printed unditching skid and numerous external details. ▶

**“Tamiya have done a wonderful job with this kit, offering the modeller the chance to build a classic French 1930s tank...”**

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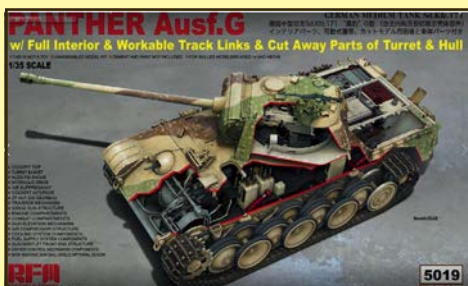
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**Small improvements to the turret**



The R35's turret features a dome-shaped armoured cupola on its roof. Fitted to this structure are three lifting lugs which, in 1:35, are very small and would be tricky to position correctly. Tamiya solved this potential problem by moulding the lugs to larger tabs which are fitted from the inside through holes in the cupola, aligning them automatically and reducing the chance of the lugs breaking off

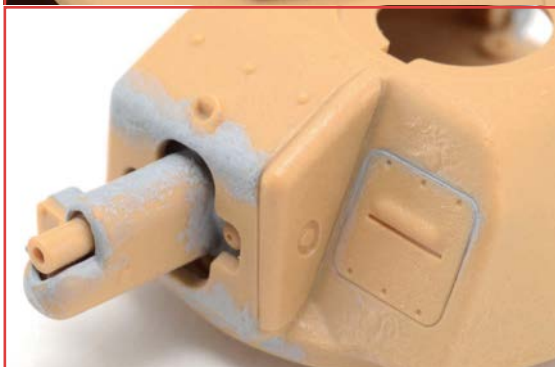


Here we see the dome cupola in place. It is a rotating part that fits like a mini turret and can be turned to any angle

This is the main gun sub-assembly, minus barrel. Including the mount (yet to be fitted here) it builds up from thirteen parts and is a slightly fiddly procedure due to its small size. Mr Surfacer 500 has been applied along the cement lines to create the impression of seamless castings

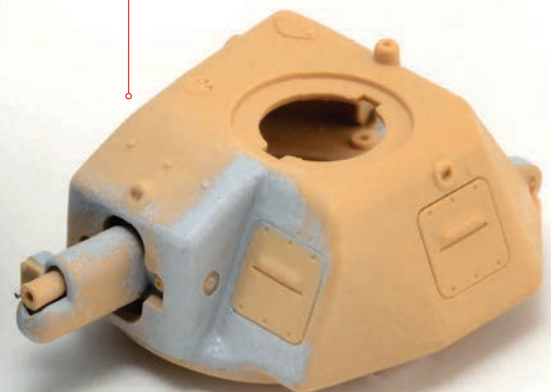


**“Only a few, very minor modifications were made to the model...”**



The triangular aperture on the left side of the gun housing is closed up by a corresponding panel and some visible cement lines remain once it is in place

Yes, Mr Surfacer 500 to the rescue! The joints were quickly concealed with the paintable filler/primer, the texture restored by stippling the final layer with a paintbrush while the '500 was still soft

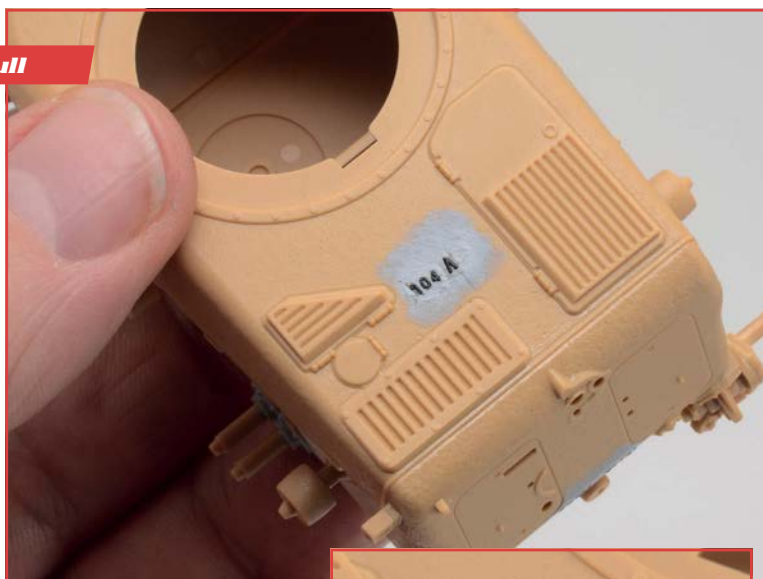




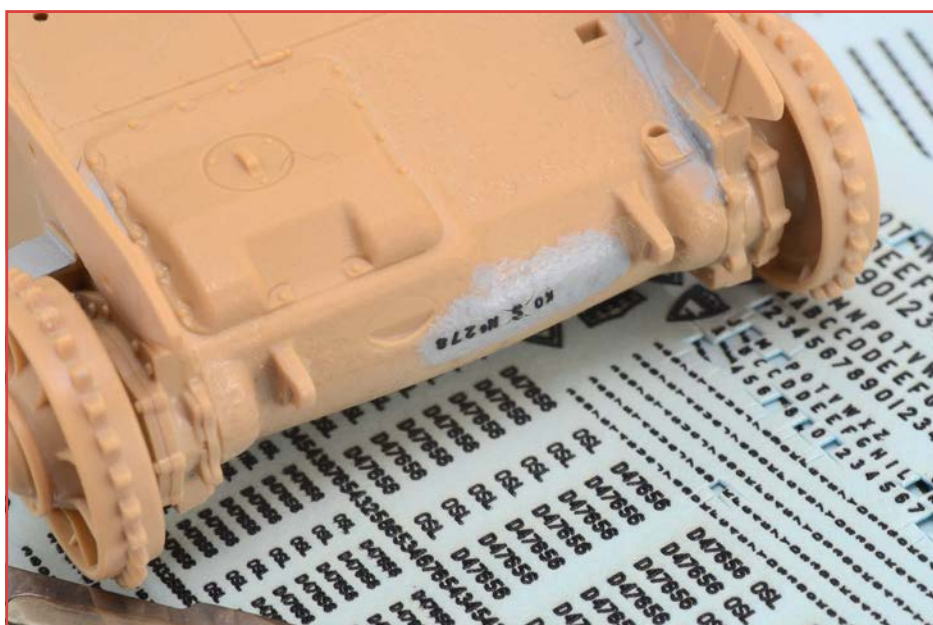
## Applying foundry casting-numbers to the hull



The real R35's upper hull, rear and frontal bow plates (plus turret) were made from steel castings and usually, the manufacturer's name, component numbers and other data were incorporated within the surface. Sadly, the kit lacks these, so they were recreated by the author using Archer Dry Transfer 'Surface Details' which comprise raised numbers and letters, printed onto waterslide decal sheet.



A layer of – you guessed it – Mr Surfacer 500 was applied as a primer (decals can't 'bed in' to bare kit plastic) and the individual characters then positioned, fixing them with watered down PVA glue to give them a little more adhesion



In this view we can observe how the Archer decals are supplied; on a sheet of decal backing paper with a continuous carrier film. Once in place, Daco 'Strong' (red label) setting solution was applied to soften the carrier film and help each character to lay perfectly flush with the model's surface



In this close-up photo we see the markings on the upper edge of the rear hull panel. A little creativity was needed when assembling the foundry marks, manoeuvred into place with needle-tipped tweezers



Here we see the driver's upper hatch, treated off the model for ease of access. Archer do not yet offer a specific set for the R35, so the foundry marks were made up from various items taken from sheet No.AR88007



## ◀ PAINT TIME

I gave the model an overall coat of an olive green shade I had mixed from Tamiya's new Lacquer Paints line, with the idea that this would act as a tough base layer should I need to wipe off the acrylic camouflage colours that would follow. I started with LP-56 Dark Green 2 and added yellow and red until I arrived at a shade I felt looked right. All a little unscientific perhaps, but I think it turned out about right. With this undercoat dry, I started applying the camouflage colours, the specifics of which are described in the photo-captions and Techspec.

The Vallejo paints are superb to hand-paint and I only needed to apply a second layer in small areas of the sand and pale green sections. However carefully one applies the paint, the thickness inevitably builds up, but to me, this actually enhances the effect of a scheme that might have been painted this way originally. With the colours on, I applied a solid coat of Tamiya LP-09 Clear (gloss), which creates a uniform finish across the colours and prepare the model for decals. Being made up from three colours, the roundels were quite thick and I struggled when attempting to make the marking on the bow plate lay flat over the manufacturer's plate in this location. In hindsight, I would have fixed this oval plaque after having positioned the decal.

A coat of flat varnish was then applied, followed by the weathering which consisted of colour-washes and pigments. Some scratches and scrapes were made with Vallejo Camouflage Black-Brown, applied with a 000 brush. Conversely, I wanted to retain a distinct sheen to parts of the upper hull, so I went back in with the LP-09 Clear, applying patches of gloss in areas that might have become burnished by the crews' transit, polished by their boots and trousers. This also creates some highlights that give it a more photogenic appearance than a totally matt finish. ▶

## Creating 'that' French camouflage scheme



Although the diminutive size of Tamiya's R35 might make assembly a little fiddly for the more sausage-fingered modellers out there (like the author), the real challenge of this project is the painting of its multi-toned camouflage. It's a five-colour scheme and it starts with an overall layer of olive green. The instructions recommend XF-58 Olive Green but the author used his own mixture as he had run out of this particular shade!



It is entirely possible to mask and airbrush each colour, but for a change, the subsequent shades were hand-painted using Vallejo Acrylics from both the thicker Model Color and Panzer Aces lines, plus thinner Model Air range. The reason for using Vallejo paints and not Tamiya Acrylics is that the former hand-paint extremely well, the latter, less so. The red-brown was applied first, using a mixture of Vallejo Model Air Rust and Vallejo Panzer Aces Shadows Flesh, slightly thinned with tap water



**“The Vallejo paints are superb to hand-paint and I only needed to apply a second layer in small areas...”**





Next came the sand-yellow shade (the instructions suggest XF-59 Desert Yellow) which was made by mixing Vallejo Model Air Yellow Ochre, Sand (Ivory) and Model Color Khaki. This was the most difficult colour to apply because of the paint's slight translucence as well as being applied over darker tones



The instructions say to use XF-71 Cockpit Green (IJN) for the pale green, but this seemed too dark, so a paler alternative was formulated using Vallejo Panzer Aces Highlights Ital. Tkcer and Model Air Cam Light Green



The final colour to be applied was XF-21 Sky, which was substituted for a custom mix of Vallejo shades, based on Vallejo Panzer Aces Highlights Ital. Tkcer. As previously mentioned, the reason for using Vallejo paints is their excellent hand-painting properties. In this view, the dreaded black lines that form the colour boundaries have been applied, using a 50/50 mixture of Vallejo Model Color Black and Model Air Black. This combination produces a smooth, easy-flowing paint that is very controllable. The lines are still a nightmare to paint, however... The dusty weathering has also been started in this view



## FULL-BUILD: WW2 FRENCH ARMOUR

TAMIYA 1:35 FRENCH LIGHT TANK R35 ● KIT NO.35373

### ◉ FUTURE VARIANTS?

Tamiya have done a wonderful job with this kit, offering the modeller the chance to build a classic 1930s French tank in which the crews fought valiantly against the invading Wehrmacht, during the May 1940 Blitzkrieg. Ultimately, they battled in vain, and many examples fell into German hands, heavily modified in some instances into the top-heavy self-propelled guns such as the snappily-named 4.7cm Pak(t) (Sfl) auf Fgst. Pz.Kpfw.35 R 731(f). It would be nice to think Tamiya will release one of these in the future. For now, here is the R35. I hope you enjoy the photos! ●

The weathering consisted of conventional colour-washes using mixtures of Tamiya Panel Line Accent Color Black, Dark Brown and Brown, oil paints and pigments. The processes were over-layered, repeated, adjusted, wiped off and started over in places until a feeling of general battlefield 'muck' was achieved. The aim was to create a dirty-looking, but not old tank

Friulmodel's metal tracks go a long way in adding realism to the model and it's not just their natural, upper run sag; this is provided by the kit's standard link-length set too. Fitting the tracks after the running gear has been painted and weathered allows the roadwheels, their tyres plus the drive sprocket and idler to be given effective, individual treatments without the tracks getting in the way







**“At the time of the German attack on France, the French army had 900 R35s in service...”**





A 4.7cm(t) Panzerjäger auf 35R(f) being moved on a trailer. In this combination, the base tank is French and its new gun is of Czech origin. It would be nice to think Tamiya might release a kit of this Wehrmacht-modified variant in the future. *Photo: Bundesarchiv*

The small size of Tamiya's R35 Light Tank in 1:35 is revealed by this hand-held shot! The fender-mounted stowage bin was filled with links from the Friulmodel track set (spares are always provided by this manufacturer) and a loop of cable was hooked over the jack. The commander figure was painted with Vallejo acrylic paints



## TECHSPEC...

**TAMIYA 1:35 FRENCH LIGHT TANK R35  
 KIT NO.35373**

### Materials:

Injection-moulded polystyrene, polycaps, waterslide decals

### Paints used:

- Tamiya Lacquer Paints: Various shades
- Vallejo Model Air: Rust (71.080) Yellow Ochre (71.033), Sand (71.075), Cam Light Green (71.006), Black (71.057), Camouflage Black-Brown (71.042)
- Vallejo Model Color: Black (70.950), Khaki (70.988)
- Vallejo Panzer Aces: Shadows Flesh (343), Highlights Ital. Tkcer. (331)

### Accessories used:

- Friulmodel: French R35 track set (ATL-168)
- Archer Fine Transfers: Casting Symbols (foundry marks) 1:35, 1:48 and 1:72 No.AR88007 (Surface Details No.11 SD99011)

### Weathering:

- Wilder: Nitro Line Brown Rust Speckling Effect (NL27),
- Mig Productions: Europe Dust (P028)

### References:

- [www.primeportal.net](http://www.primeportal.net)

### Availability:

- Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)
- Archer Fine Transfers: [www.archertransfers.com](http://www.archertransfers.com)
- Friulmodel: [www.friulmodel.hu](http://www.friulmodel.hu)
- Wilder: [www.airbrushes.com](http://www.airbrushes.com)
- Mig Productions: [www.migproductions.com](http://www.migproductions.com)
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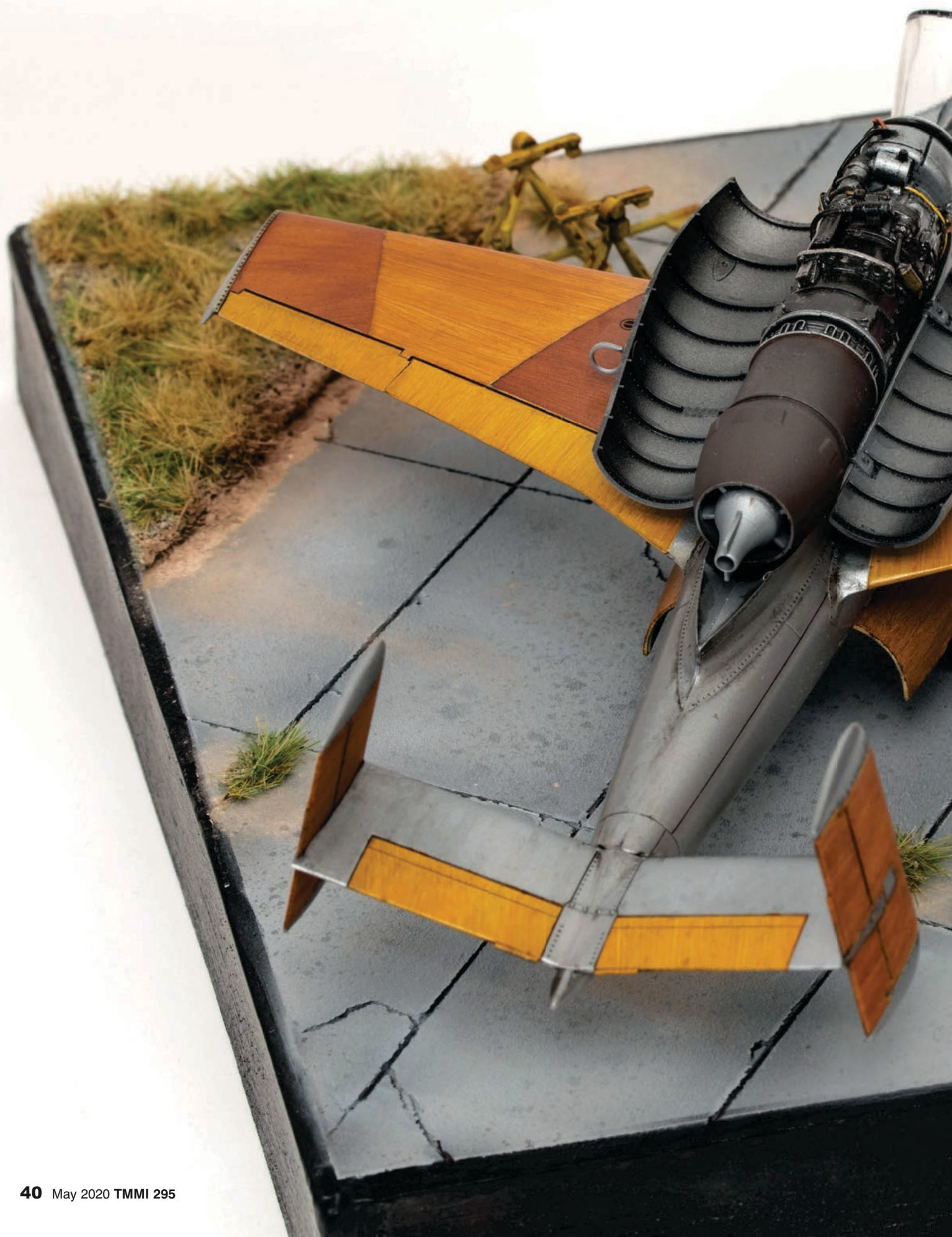
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# WOODEN WUNDER

**Allon Kira** paints Tamiya's Heinkel 1:48 He162 A-2 Salamander in its bare state, with 'wooden' components on show

**T**he Heinkel He162 Volksjäger was single-seat, single-engine jet aircraft, designed and built for the Luftwaffe towards the end of World War II as an 'emergency fighter'. It was designed and built quickly and made primarily of wood as metals were in very short supply at the end of the war in Germany.

The name 'Volksjäger' was given to the little jet by the Reich air ministry and it means 'People's Fighter'. The plane is also known as 'Salamander' or 'Spatz' (sparrow). Tamiya's 1:48 He162 model (61097) was released in 2006 and is an excellent kit, with almost perfect fit and is very easy to build. I have to admit that this plane has always fascinated me because of its unconventional appearance (the engine was mounted on the top of the fuselage) and the fact that it was mostly made of wood. ▶



## FULL-BUILD: WORLD WAR TWO AXIS AVIATION

TAMIYA 1:48 HEINKEL HE162 A-2 SALAMANDER ● KIT NO.61097

❶ I decided to build it in two versions. For the first time I painted it in one of the paint schemes offered in the kit. The second one is the 'raw' look, seen here. After building the entire model (except the engine), I painted it in aluminium and silver shades from AMMO by Mig's acrylic paint range. Then, I gloss varnished it and I let it dry for two days.

Then, the slow work of painting the wood panels began. (I'm not sure there is a strict historical accuracy between the wooden panels in the model and the ones in reality, but I was satisfied that it was probably similar enough). I marked selected panels in the wings, the fuselage and wheels wells and worked on each one individually. ❷



***“I’m not sure there is a strict historical accuracy between the wooden panels in the model and the ones in reality, but I was satisfied that it was probably similar enough...”***



A line of He162s at Leck, in Schleswig-Holstein, Germany, 1945. Note the fabric covers over the engine nacelles. Photo: public domain



He162 'White4' of JG1. A US GI sits in the cockpit of this abandoned relatively new expedient design, the airframe exhibits quite extensive damage. Photo: public domain





Volksjäger. Despite being a streaking along its flanks.



Heinkel He162 Volksjäger 'White 23'. Please note, the swastika emblem on the tail has been removed from this photo to comply with laws in countries where Tamiya Model Magazine is sold. Photo: public domain



# FULL-BUILD: WORLD WAR TWO AXIS AVIATION

## TAMIYA 1:48 HEINKEL HE162 A-2 SALAMANDER ● KIT NO.61097



Note the different paint effects used by the author on the engine: lighter alloy shades on the compressor sections and burnt steel colours on the 'hot' zones towards the rear of the powerplant

Using just oil paints applied over a wood-coloured acrylic paint layer, the author has achieved a remarkably realistic wood grain effect

### ◀ ACRYLIC UNDERCOAT, THEN OIL PAINTS

The panels were painted first with AMMO by Mig's 'New Wood' colour (037) then, using an old brush, I created the wood texture by brushing each panel with different amounts of Van Gogh brown and yellow oil paints in different directions. As mentioned earlier, this is quite a slow process, since you must wait until the oils dry completely, around two days. Only then can a few

coats of gloss varnish be applied by airbrush before moving on to the next panel. This process requires a lot of masking and a lot of patience; this is a classic case of a model that should be built in parallel with another model! After the painting was done, another coat of gloss varnish was applied, followed by Tamiya Panel Line Accent Color (Black) for more contrast. For the final look, I applied very light weathering effects mostly using oils.

### TO SUM UP

It was a fun and quite a different project than I normally build. Still, I'm convinced I'll build more models with wooden effect like this one. But in the future, the process will probably be faster with the help of wood-texture stencils, which allow paint spraying instead of the time consuming process with oils. ●

### TECHSPEC...

TAMIYA 1:48 HEINKEL HE162 A-2  
SALAMANDER KIT NO.61097

Materials;  
Injection-moulded polystyrene, waterslide decals

Paints used:  
- AMMO by Mig New Wood (037)  
- Tamiya Panel Line Accent Color (Black)  
- Oil paints: Van Gogh brown, yellow

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

The canopy of Tamiya's kit can be posed in the open position as standard



The author chose to paint the undercarriage bays, door inner faces and legs in the standard RLM02 shade

The elongated opening on the lower fuselage side is one of the gun ports for the 20mm MG 151 cannon that were fitted to most Salamanders

Wing and tail end-caps plus access panels were made from light alloy such as aluminium or Duralumin



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## AMMO BY MIG JIMENEZ

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

New from AMMO by Mig is this interesting pack that helps the modeller recreate a worn winter whitewash effect on armoured vehicles. In the box we have the following products: Matt White, Washable White Camo, Neutral Enamel Wash, Brown for White Filter, Streaking Grime for Winter Vehicles, Dark Grey for White Filter, Heavy Chipping Effects Fluid, Rust Streaking Brusher, Winter Grime Streaking Brusher and White Oil Brusher. **WHITE WINTER CAMOUFLAGE SOLUTION SET (A.MIG-7803)**

## MISSION MODELS, USA

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

Eight new acrylic shades are on offer from Mission Models, with three colours matched to the US Army's 'MERDC' (Mobility Equipment Research and Development Center) camouflage system. As always, these paints require a little practise to use effectively but it's easy to learn their properties and once mastered, they offer an exceptionally refined finish.

## ACRYLIC PAINTS

- New Construction Yellow 1990 to present (MMP-125)
- Farm Tractor Yellow (MMP-126)
- Concrete 1 Dark (MMP-127)
- IDF Green IDF current AFV (MMP-128)
- Earth Yellow Tan FS30257 MERDC (MMP-129)
- Earth Red Brown FS30117 MERDC (MMP-130)
- Sand FS30277 MERDC (MMP-134)
- Extra Dark Sea Grey RAF (MMP-138)





# 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

## EDUARD, CZECH REPUBLIC

[www.eduard.com](http://www.eduard.com) [www.creativemodels.co.uk](http://www.creativemodels.co.uk)  
Tamiya's 1:48 P-38F/G Lightning was launched last year and in the intervening time, it has attracted a healthy stash of aftermarket goodies. Eduard is main contributor to this ever-increasing pile of resin and photo-etched loveliness and shown here are just some of the items on offer.

### EDUARD PHOTO-ETCH 1:48

- P-38F details (491041) for Tamiya
- P-38G details (491042) for Tamiya

### EDUARD BRASSIN 1:48

- P-38F/G wheels (648515) for Tamiya
- P-38F/G gun barrels (648516) for Tamiya
- P-38F/G superchargers (648519) for Tamiya
- P-38F/G Landing flaps (648520) for Tamiya

### EDUARD LÖÖK 1:48

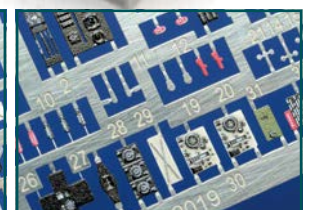
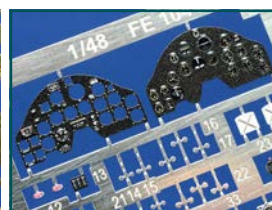
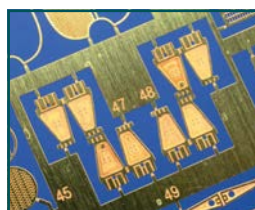
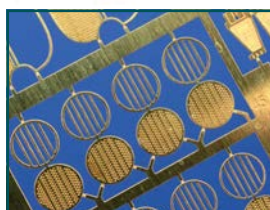
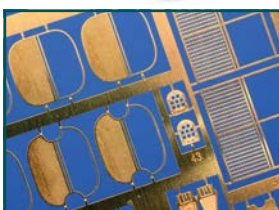
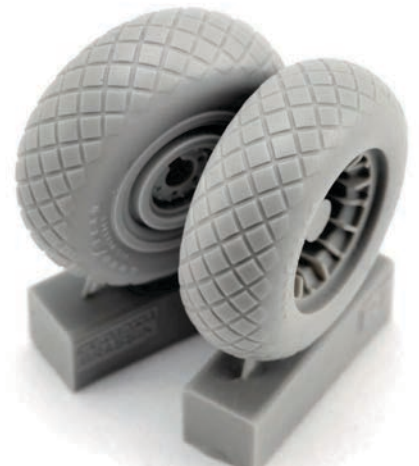
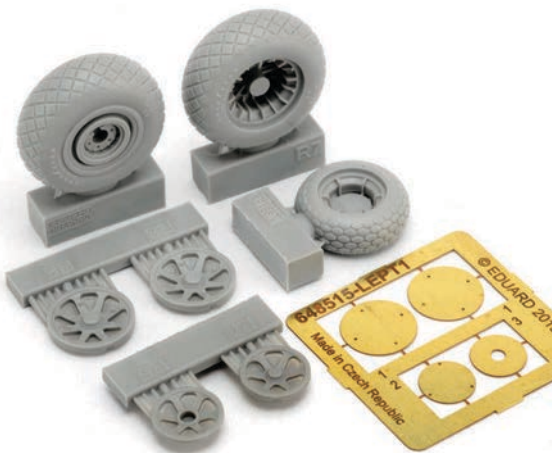
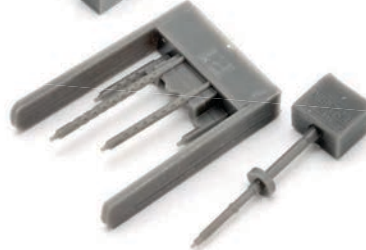
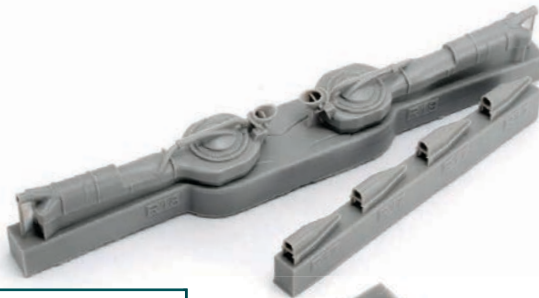
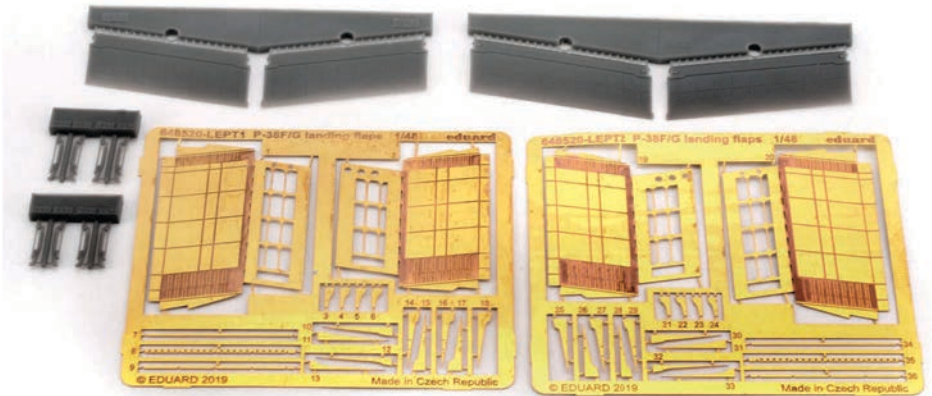
- P-38F (instrument panel and seat harness) (644028) for Tamiya
- P-38G (instrument panel and seat harness) (644029) for Tamiya

### EDUARD ZOOM 1:48

- P-38F/G seatbelts steel (FE1043) for Tamiya
- P-38F details (FE1041) for Tamiya
- P-38G details (FE1042) for Tamiya

### EDUARD MASK 1:48

- P-38F/G (EX666) for Tamiya
- P-38F/G TFace (EX667) for Tamiya





# New Releases Accessories

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



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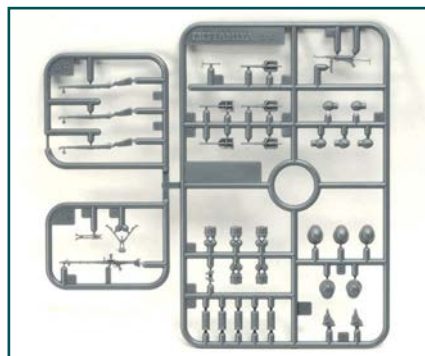
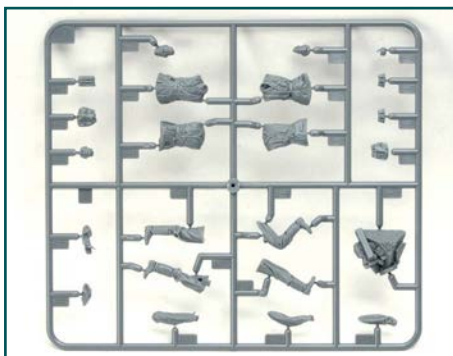
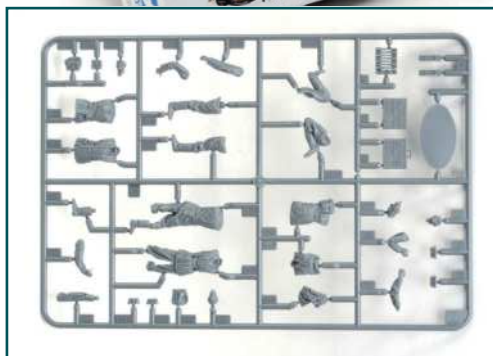
**AD**; ACETATE DIALS, **CC**; CAST CERAMIC (PLASTER), **CMA**; CAST METAL ALLOY, **CP**; CHROMED PARTS, **CPS**; CLEAR PLASTIC SHEET, **DT**; DRY TRANSFER (DECALS), **EM**; ELECTRIC MOTOR **EPS**; EXTRUDED PLASTIC SECTION, **F**; FABRIC, **IM**; INJECTION MOULDED (PLASTIC), **ITL**; INDIVIDUAL TRACK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

## TAMIYA, JAPAN

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

The latest figures to join the extensive range of combat troop sets in the 1:35 Military Miniatures Series is this pack of five World War Two German infantrymen, depicted with uniform, equipment and weapons from the mid-war period. Each figure is broken down into multiple parts that fit together perfectly and mostly along natural lines such as belts and shoulders and there should be no need for filler, just liquid cement. Once the figures are painted, the finishing touch is a set of decals for epaulettes, other uniform insignia and even a first aid markings for a converted ammunition case. If you haven't seen Tamiya figures lately, check these out; they are absolutely fantastic and easily as good as many resin castings costing more for one figure than this entire set. Natural poses, convincing folds in the 'fabric' of their uniforms and superbly well detailed equipment and small-arms make this a must-have for WW2 diorama-builders.

**1:35 GERMAN INFANTRY SET MID-WWII (35371)**





# P-51D Mustang

1/48

block D-10 and higher

**ProfiPACK**  
edition

PE-Sets and painting mask  
Decals for 6 marking options

## Available accessories:

481000 P-51D (PE-Set)  
FE1021 P-51D seatbelts STEEL (PE-Set)  
644030 P-51D-10 LööK (Brassin)  
644031 P-51D-15+ LööK (Brassin)  
648233 US 108gal paper tanks (Brassin)  
648238 US 75gal metal drop tanks (Brassin)  
648485 P-51D exhaust stacks (Brassin)  
648486 P-51D exhaust stacks w/ fairing (Brassin)  
648487 P-51D Hamilton Standard propeller (Brassin)  
648494 P-51D wheels diamond tread (Brassin)  
648495 P-51D undercarriage legs BRONZE (Brassin)  
648503 P-51D wheels oval tread (Brassin)  
648504 P-51D wheels cross tread (Brassin)  
648505 P-51D wheels block tread (Brassin)  
648511 P-51D wheels diamond tread 2 (Brassin)  
648512 P-51D wheels rhomboid treat (Brassin)  
648513 P-51D wheels pointed cross tread (Brassin)  
648514 P-51D wheels grooved (Brassin)  
648517 P-51D gun bays (Brassin)  
648522 P-51D cockpit (Brassin)  
EX663 P-51D TFace (Mask)  
SING4865 P-51D ESSENTIAL (BIGSIN)

**eduard**



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



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



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



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



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



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

March 2020 release Cat. No. 82102 @ [www.eduard.com](http://www.eduard.com)



# ЗА СТАЛИНА

As with the Mustang GT4, Tamiya kept the news of the all-new Soviet KV-1 Stalin Heavy Tank very quiet, only first showing it at the Nuremberg Toy Fair at the start of the year...



It's a 100% new kit, with no parts at all coming from the company's previous KV-1 releases – the initial release of which harks back to 1972 – and features welded turret and early production roadwheels, appropriate to the Mod.1941 Early Production machine. This is an important design in the history of armoured warfare and was developed concurrently with the T-34 medium tank. Armed with a powerful 76.2mm ZIS-5 gun and continually updated to improve its survivability, it served through to the end of WW2.

This version of the KV-1 heavy tank was fitted with appliqué armour to its glacis plate and flanks and it's

interesting to observe that in the kit, these are provided as individual mouldings that require the removal of raised detail to allow them to be fitted, hinting at the release of other variants down the line.

Tamiya have ditched the user-friendly but less realistic flexible, one-piece tracks of older models and replaced them with kit plastic, link-and-length items, which include the characteristically extreme upper-run sag seen on KV-series vehicles. Rolled steel textures have been incorporated within the surfaces of key areas, most notably the turret sides and roof, plus the main gun mantlet. The engine deck radiator screens are moulded in solid plastic

and they are extremely well done, even featuring their own 'sag' where the mesh has been walked over by the crew. Advanced modellers will want to replace them with photo-etched parts but as standard, they look extremely convincing.

The model comes with two markings-options, one from the 1st Tank Battalion, 116th Tank Brigade, 1941-1942 and 2nd Tank Battalion, 116th Tank Brigade, 1941-1942, both in overall green. The 1st Tank Battalion machine is likely to prove the more popular choice with the large 'ЗА СТАЛИНА!' ('For Stalin') slogan on its turret side. Other attractive features of this new kit are open/closed



# 1HA!



transmission and driver's hatches (no interior detail, but aftermarket parts are sure to be released), detailed turret ring and an excellent commander figure for the open turret hatch. A new KV-1 is a great choice of subject by Tamiya, opening the doors for an updated KV-2, up-armoured KV-1 'Ekranami' and other important variants (fingers crossed). Full-build article coming soon to TMMI! ●

#### AVAILABILITY;

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





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

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## TAMIYA, JAPAN US M8 LIGHT ARMoured CAR GREYHOUND COMBAT PATROL SET

www.hobbyco.net

SCALE: 1:35

MATERIALS: IM, WS, WC

ITEM NO.25196

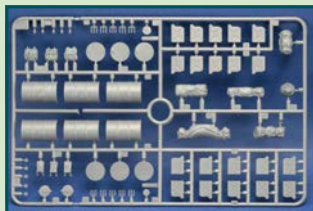
Tamiya's M8 Greyhound M8 Greyhound Light Armoured Car 'Combat Patrol Set' comes with one sprue from the Allied Vehicles Accessory Set (35229, 1998) plus the smaller sprue from the US Tank Crew Set European Theater (35347, 2105) along with a new printed sheet of US '10-in-1' ration cartons from which eight sets can be made, with or without their outer sleeves. This alone makes the set a worthwhile purchase, but one of the nice things about older kits being re-issued, as with this one, is that there is usually a bucket load of aftermarket for them to greet the models upon their return. In the case of the 1:35 M8 Greyhound, there are interior sets, engines, exterior fittings in photo-etched metal, wheels/tyres and markings available from a range of manufacturers, all of which can be used to enhance Tamiya's lovely little Greyhound and make into something really special. Although the kit was originally launched back in 1998, it still has all of the sophistication and refinement – and ease of assembly – of more recent Tamiya AFV models and it is a joy to build.



Still a terrific kit in the classic Tamiya style



Not a negative point, but DEF Models' sagged resin wheel/tyres set will add a lot of extra realism



## TAMIYA, JAPAN NORTH AMERICAN F-51D MUSTANG KOREAN WAR

www.hobbyco.net

SCALE: 1:32

MATERIALS: IM, PE, SVT, WS, WC+  
ITEM NO.60328

Upon its release in 2011, Tamiya's 1:32 P-51D Mustang set the standard for this subject in any scale and it still holds that accolade. It's a wonderfully detailed and highly accurate rendition of the USA's most famous fighter of World War Two and now, in 2020, we have the third release of the kit, this time in F-51D form as the fighter appeared during the Korean War of 1950 to 1953. The designation change from P-51D (pursuit) to F-51D (fighter) isn't the only change; this model now comes with a newly tooled wide paddle-blade propeller, SCR-522 transceiver with BC-453B receiver plus new AN/ARC-3 transceiver set, a set of six, 5-inch HVAR (High Velocity Aircraft Rockets) as well as new parts to depict the slitted fuselage side radiator access panel. The kit includes seated and standing pilot figures, the former with new head parts for the later P-1A helmet. The kit will come with three markings-options, two US; 39th Fighter-Interceptor Squadron, 18th Fighter-Bomber Wing, 12th Fighter-Bomber Squadron, 18th Fighter-Bomber Wing, plus one from the Republic of Korea Air Force. With the new parts and three very attractive decal options, this kits makes an appealing alternative to WW2 Mustangs.



New parts and decals add a nice touch to this stunning kit



Little to criticise here





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A hand is shown holding a 3D printed model of a baby African elephant. The elephant is standing on a large, textured rock. A small bird is perched on the rock next to the elephant. The background is a plain, light-colored surface.

# INTO THE WILD

**Raphael Truffi Bortholuzzi** creates a beautiful and realistic model of a baby African elephant using an Anycubic Photon 3D printer

**A**t birth, an elephant calf weighs 265lbs, after a gestation period of twenty-two months, the longest of any land animal. The African bush elephant (*Loxodonta Africana*), also known as the African Savanna Elephant, is the largest living terrestrial animal with bulls reaching a shoulder height of up to 3.96 metres (13ft). I used Anycubic Photon 3D printer to create this model in three dimensions and also the birds. It took five hours to print using UV Translucid Green resin. For painting, I used Tamiya grey primer for the body first, then couple of colour-washes were applied, giving more depth. After this, I applied some shades of Tamiya Field Blue and Middle Grey. Also, I used some pigments for dust effects. ●



## FULL-BUILD: 3D PRINTING PROJECT: NATURAL HISTORY DIORAMA

### 1:12 (APPROXIMATELY) 3D PRINTED BABY ELEPHANT



The printing process took about 4.5hrs using the Anycubic Photon 3D resin printer. The resin chosen for this project was Translucid Green. The author hollowed the model and made drain holes at its feet to optimise the process and printing time. The software used to print the model is Chitubox, free slicer-software that's really good and easy to use



Heavy supports were added manually inside using Chitubox to prevent the model being printed incorrectly. At this stage you can see the inner supports showing but that's fine, since the whole model will be painted and it won't be visible

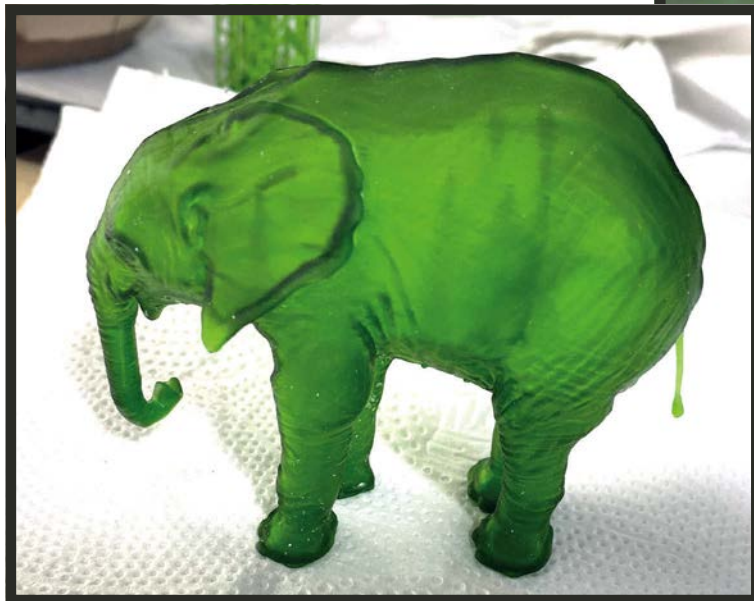
## Mini Review...

**BRENGUN 1:48 CLARCAT TYPE B ROYAL NAVY DECK TRACTOR (BRS48014) • [www.brengun.cz](http://www.brengun.cz)**

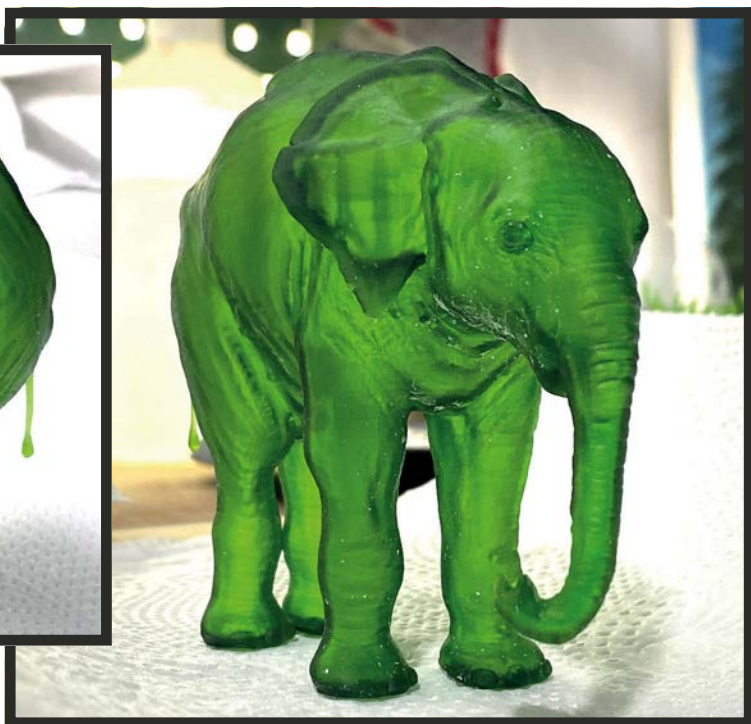
Brengun have a knack of finding some delightfully quirky subjects to release kits of and the Clarcat deck-tug is one such example. It depicts a compact, electric-powered carrier-deck tractor used by the Royal Navy during WW2 to pull aircraft and ammunition around on the deck and it has a rather sleek design aesthetic of its own. The model comes cast in grey resin (no photo-etched brass needed) with a small decal sheet carrying markings vehicle No.66, plus dials and data stencils. The detail is lovely and painted in gloss navy blue it will look great alongside a Stringbag or similar.







At this point the model was rinsed in a bath of IPA (isopropyl alcohol) for about thirty to forty seconds. With that cleared, the model was left to dry out naturally as the IPA evaporates and be ready for the next stage of curing. As you can see here, the model also gets foggy but is part of the process as the IPA clears off the excess resin



The model then goes to a UV curing station. The author used a UV nail chamber for this and left the model for about thirty to forty minutes under the UV light. It also can be cured out in the sun. The resin works with a range of 405nm Rapid Photopolymer and is very hazardous to be handled without gloves before curing



The author also printed some wild birds to go in the diorama since they give life to the overall scene. The same processes were applied here on the bird. Look how small and detailed it can get!



Once primed, the author started by applying a thin coat of Tamiya XF-50 Field Blue to simulate the base coat of his skin. Then using a sponge, highlights were added using Tamiya XF-53 Neutral Grey and XF-20 Medium Grey

Then it's time to paint, the most fun part! Here, the author has already primed the model with Surface Primer from Tamiya. Using the spray-can made it a lot easier



**FULL-BUILD: 3D PRINTING PROJECT: NATURAL HISTORY DIORAMA**  
**1:12 (APPROXIMATELY) 3D PRINTED BABY ELEPHANT**



The painting process of the eyes was as important as the skin; the eyes are the 'soul' behind all species and transmit emotions through them. After making the basic shapes of the eyeballs, a touch of realism was added by applying small drops of gloss nail varnish

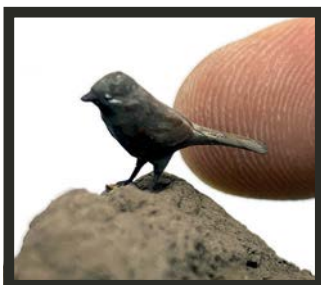


Here, just for fun, the author posed an oil painting he made in the background to take some cool photos

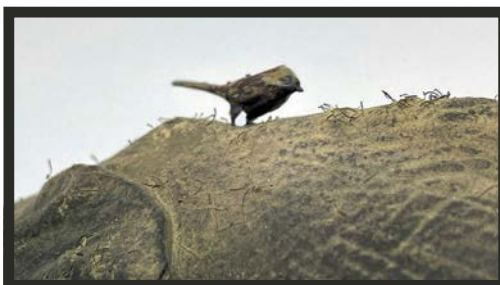
In the below side view you can see the overall look of the baby elephant with the wild bird on top of him. Some dust pigments were applied to his back for further realism



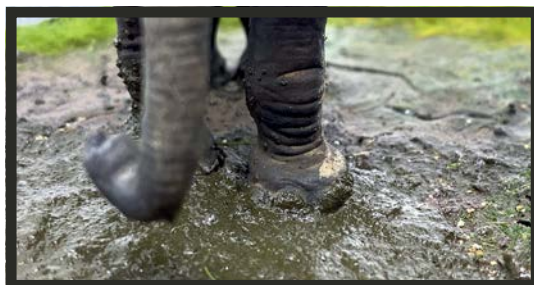




Here, the wild bird is already painted and weathered for the scene. The author used subtle effects on the bird so as not to draw too much attention from the elephant, mostly being painted in brown shades using acrylics



Tiny hairs were added to the elephant's back, tail and trunk, using static grass normally used in model railway layouts, then tinted in black with airbrush. It's just a small touch but made all the difference



The diorama also has some cool wilderness and natural effects, such the muddy groundwork. This was done by using AK Interactive Terrains 'Wet Ground' acrylic paste

## TECHSPEC...

1:12 (APPROXIMATELY) 3D PRINTED BABY ELEPHANT

Materials;

UV translucent green resin

Paints used:

Tamiya Acrylics; XF-50 Field Blue, XF-20 Medium Grey

Weathering:

Weathering pigments for dust effects

Availability;

Anycubic 3D printer: [www.anycubic.com](http://www.anycubic.com)

Tamiya paints and materials are widely available from good model shops and online.

UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)



In this eagle's eye view you can notice how the diorama base is formed with all the elements in place. Groundwork, vegetation and wild animals all placed and ready to bring life to the scene



Last but not least, the diorama; 'Into the Wild' is ready to be photographed and tell its story. The way the elephant is looking at us captures all the emotions going on in that scene





# 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?**

## U-BOOT IM FOCUS NO.16, NO.17

AXEL URBANKE, LUFTFAHRTVERLAG START  
www.luftfahrtverlag-start.com

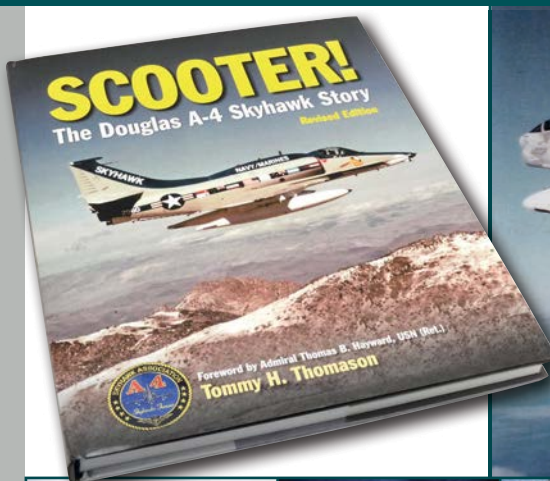
Two new volumes on the World War Two U-boat are on release from Luftfahrtverlag Start; No.16 and 17, with 18 on the way soon. The modelling inspiration they both provide is fantastic, with some extraordinary, previously unpublished wartime photos of the submarines themselves, the crews, conning tower emblems and more. The clarity of many of the images is amazing, in many cases, offering enough detail reference to be of great use to modellers. A handful of colour illustrations by artist Juanita Franzi help to show the conning tower artworks in razor-sharp detail and a smattering of maps help to contextualise the photographs. As always, these books are little treasure troves of information and should be snapped up by anyone interested in the battles of the Atlantic, Baltic, and other deadly maritime clashes during the Second World War.



## SCOOTER! THE DOUGLAS A-4 SKYHAWK STORY (REVISED EDITION)

THOMAS H THOMASON, CRÉCY PUBLISHING  
www.crecy.co.uk

The A-4 Skyhawk's story is chronicled in this impressive, 280+ page, hard-bound tome from Crécy Publishing and it's quite a story. From project XA4D's first roll-out in June 1954 to its US Navy retirement in 2003, the 'Scooter' as it was affectionately called, has had a long and varied career, perhaps being best known for its carrier duties during the Vietnam War. The book features hundreds of excellent-quality colour and black and white photographs that offer the reader a detailed insight into the life of the A-4. If you're looking for a walk-around treatment, you will need to search elsewhere, but as an overview of the type with an exhaustive text and some hits of Skyhawk visual 'eye-candy' this book hits all the marks.





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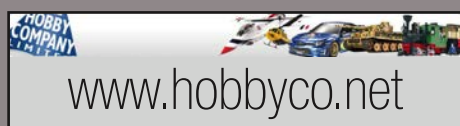
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The next issue of TMMI is June 2020  
(No.296), on sale May 21st



## DON'T MESS WITH TEXAS

Zoikei-Mura's 1:48 F-4C in Texas ANG colours



## INTO BATTLE

Tamiya's IDF Tiran 5 in 1:35



## HAAS IT FINISHED?

Tamiya's 1:20 Ferrari SF70H  
converted to a 2018 HAAS VF-18

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

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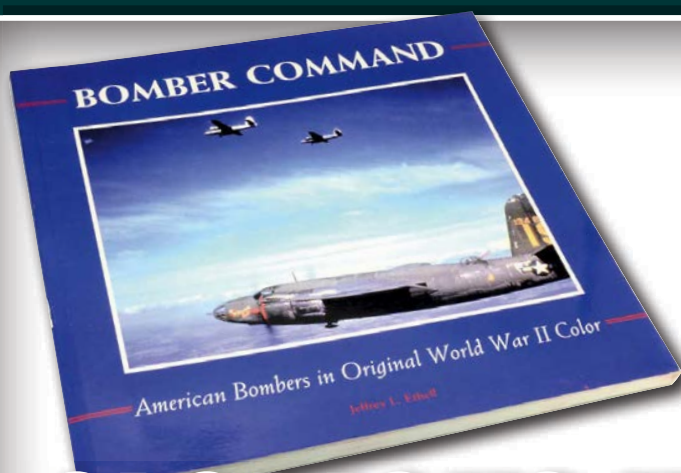




# The Editor's Page...

There's nothing quite as evocative and original wartime colour photographs

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**D**o you have a 'special' book you turn to when seeking inspiration and ideas for a modelling project? I certainly do – several in fact – but one keeps being taken off my bookshelf for repeated and indulgent flick-throughs. The tome in question is 'Bomber Command' by Jeffrey L. Ethell, a fantastic aviation author who was tragically killed in June, 1997, when the restored P-38 Lightning he was flying crashed in Oregon, during preparations for an airshow. This book was first published in 1994 just three years before the accident and it contains 180+ pages of original wartime colour photographs (not colourisations) of classic WW2 American bombers and fighters from the B-17 to the P-47. The images are amazing and whilst the variations in colour reproduction don't really make accurate references, the weathering, tonal variation and sheer atmosphere of the imagery make it worth adding to one's collection. The book is still available from various sources. ●

## GLORIOUS KODACHROME!



### EDITOR'S CHOICE

#### Tamiya Craft Tools HG Tweezers (grip-type tip) 74155

Regular tweezers are an essential scale modelling tool and there are many types, from needle-nosed to broader tipped, general usage types. Tamiya have just released this 'high grip' style of tweezer, featuring a remarkably strong grip, at the expense of leaving small marks in the item you're holding. If this isn't a problem, these will be very useful for a number of operations. Check them out at: [www.hobbyco.net](http://www.hobbyco.net)





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# MAZDA MX-5 RF



(JAPANESE VERSION)  
MAZDA ROADSTER RF

## The Very Best of Both Worlds

### 1/24 Sports Car Series **MAZDA MX-5 RF** (Item 24353)

Mazda's Roadster (MX-5) has been a long-running global hit, and in 2016 the fourth generation MX-5 lineup was graced by a new RF (Retractable Fastback) model, which features a hardtop that can be moved at the flip of a switch and takes a mere 13 seconds. Dynamic and lightweight, the car employs a 2-liter DOHC inline-4 engine tuned for superior response and control, whose purring provides a blissful soundtrack to your open-top drive. This alluring fastback/open-top model has added a new dimension to the MX-5 brand, and now makes a triumphant appearance in the Tamiya 1/24 Sports Car Series.



1



2



3

① Features depictions of the Recaro seats used in the RS-spec car. Logos on the back sections are decals.

② Here is a closer look at the sporty interior of the car. Instrumentation is depicted by decals. Choose between left- or right-hand drive setup.

③ RS-spec BBS wheels are employed on the model, with metal transfers providing the center cap logos.



★ The model's roof uses an integrated component to depict front and middle sections, plus a separate rear section.

Length: 164mm, width: 80mm

★ Here we see the distinctive form of the fastback with its roof down and showing off the detailed interior.



(EUROPE VERSION)

This car is marketed as the Roadster RF in Japan, and the MAZDA MX-5 RF in the rest of the world.



(Item 24085)



(Item 24342)

Fittingly for a globally renowned car, the MX-5 is the subject of a number of models in the 1/24 Sports Car Series. Why not build your very own fleet?

1/24 EUNOS ROADSTER (Item 24085)

1/24 MAZDA MX-5 (Item 24342)

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

