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TAMIYA

£4.60 October 2019 ISSUE 288

LIGHTNING STRIKES

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WITH TAMIYA'S
ALL-NEW 1:48 P-38
LIGHTNING BEGINS...

Model MAGAZINE

INTERNATIONAL www.tamiyamodelmagazine.com



LEICHTER PANZERSPÄHWAGEN

TAMIYA'S CLASSIC 1:35
SD.KFZ.222 GETS A
MODEST MAKEOVER

INSIDE

Tamiya 1:35 M3 Stuart, Tamiya 1:24 Nissan 370Z Heritage, Hasegawa
1:48 F/A-18F Hornet, plus new kits, books and modelling accessories...

DOOLITTLE
MEDIA



88

1/35 Military Miniature Series
**German Heavy Self-Propelled Howitzer
Hummel (Late Production)** (Item 35367)

**1/35
SCALE**



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Eastern Front,
Summer 1944



HUMMEL
LATE PRODUCTION

Catch the Buzz

The Hummel was developed by German designers in short time, intended to provide a quick boost for troops that had begun to struggle in the aftermath of their invasion of the Soviet Union in 1941. Its chassis was a hybrid using parts from the Pz.Kpfw.III and IV, and the gun was the powerful sFH18/1 15cm piece. Hummels joined the fray from 1943 in the showdown Battle of Kursk, and served through the second half of WWII. Much-requested by static modelers, the Hummel now makes a triumphant entry into the long-running Tamiya 1/35 Military Miniature Series. Our designers visited multiple Hummels to make this accurate model of a post-February 1944 vehicle, with late production specifics rendered in style and highly detailed depictions of the gun breech and machinery. Three figures and plenty of accessories ensure that there is loads of detail in and around the open-top fighting compartment.

★Features a realistic depiction of the late production hull with enlarged, integrated driving compartment. ★Assembly type recreations of the late production tracks feature 1-piece straight sections. ★Separate parts depict gun travel lock and more. ★Includes numerous accessories such as shells and propellant canisters.

●Length: 190mm, width: 84mm.

★2 marking options –
choose a Western or
Eastern Front Hummel.



Western Front, Summer 1944



★Crew are depicted
loading shells.



★The complex gun is given a detailed
rendering with ergonomic parts
breakdown. Small screws and links
coordinate barrel and sight elevation.

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**1/35 Scale German Hummel
Metal Gun Barrel** (12688)

Selected Other German Subjects in the 1/35 Military Miniature Series



(35364)



(35358)



(35335)

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

**German Self-Propelled Howitzer
Wespe "Italian Front"**
(Item 35358)

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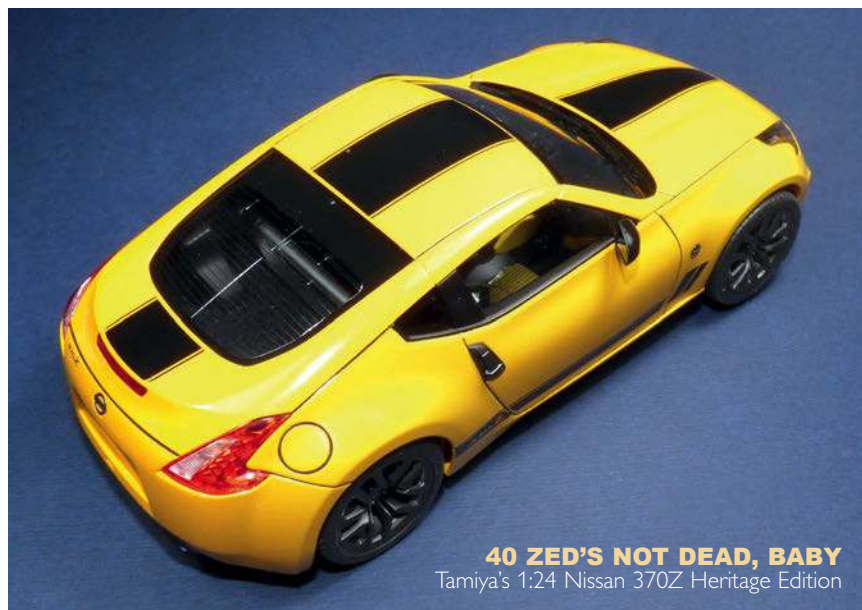
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IN BRIEF...

TAMIYA

- 1:35 German Armoured Railway Vehicle P204(f) (ex-ICM w/Tamiya figures)
- RC Trolley Pit Bag
- Touring Car Carrying Case (Hard)
- RC Tool Bag
- Modeler's Side Cutter (Orange)
- Chain-Program Robot (Blue & Yellow)
- Modeling Template (Rounded Rectangles, 1-6mm)
- LP-70 Gloss Aluminum
- LP-71 Champagne Gold
- LP-72 Mica Silver
- Hyundai i20 Coupe WRC (MA Chassis)

hobbyco.net

REVELL

- 1:144 Embraer 190 Lufthansa (new livery)
- 1:72 Model Set IAI Kfir C.2
- 1:72 Model Set Tornado ECR (Tigermeet 2018)
- 1:72 Patrol Torpedo Boat PT-579/PT-588
- 1:72 MH-47E Chinook
- 1:44 Resistance A Wing Red (B&P)
- 1:32 Gift Set KISS Tour Truck (End Of The Road)
- 1:25 '69 Ford Mustang Boss 302
- 1:24 Model Set 1956 Chevy Custom

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DAS WERK/AMUSING HOBBY

- 1:35 Borgward IV Pz.Jg 'Wanze'

modellbau-koenig.de/en

MINIART

- 1:35 Avro 671 Rota Mk.I RAF
- 1:35 Focke-Wulf FwC.30a Heuschrecke. Early Production

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TAKOM

- 1:35 Jagdtiger Sd.Kfz.186 Early/Late production 2in1

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TOP STUDIO

- 1:12 Williams FW14B cockpit up-detail set 1 (for Tamiya kit)

hiroboy.com

AFV CLUB

- 1:35 Centurion Mk.3 Korean War

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NEW FROM RYE FIELD MODEL

An all-new 1:35 kit of the US M-ATV MRAP is coming and it features full engine and chassis detail. Also on the way is a new PzIV family in 1:35.

www.tigerhobbies.co.uk



ON THE WAY FROM TAKOM

Takom have recently announced that a 1:16 Pz.Kpfw.I Ausf.A will join their large-scale range. The kit will include workable tracks and suspension, photo-etched parts and four markings-options.

www.pocketbond.co.uk



NEW FROM TAMIYA

1:35 new tool German Tank Panzerkampfwagen 38(t) Ausf.E/F

Tamiya are to release an all-new kit of the Pz.38(t)E/F in 1:35. The model will be a completely new tooling and will come with link-length tracks plus markings for Eastern Front campaigns. Also new from Tamiya is a Panther Ausf.D in 1:48. www.hobbyco.net

ON THE WAY FROM TAMIYA

12055 Porsche 934 Jägermeister (w/Photo-Etched Parts)

This is a re-issue of the classic 1:12 kit, but now it comes with new slick tyres! The kit features openable doors, bonnet and boot, a fully detailed engine, working rack pinion steering, photo-etched parts depicting brake discs, body-pins, side radiator and seat harness, decals by Cartograf

www.hobbyco.net



ALSO ON THE WAY FROM TAMIYA

Coming soon from Tamiya is a 1:24 Toyota GR Supra, 1:10 RC Mercedes-Benz G500 www.hobbyco.net



NEW FROM ZVEZDA

New kit releases for 2019

- 1:72: Soviet WWII Petlyakov Pe-2 fighter/bomber, Sukhoi SU-57
- 1:35 Sd.Kfz.251/10 Ausf.A with 3.7cm PAK
- 1:43 Russian UAZ3909 Emergency Rescue vehicle

www.hobbyco.net

NEW FROM REVELL

Revell 1:24 Benetton Ford B194 '25th Anniversary'

1:24 is an unusual scale for Formula 1 cars, but Revell's kit is excellent and now comes with paints and cement www.revell.de/en



NEW FROM REVELL

Revell Star Destroyer 'Technik'

Revell's big Star Wars Imperial Star Destroyer is coming back, this time with the full Technik 'son et lumière' treatment! This comprises LEDs to illuminate the engines and deck superstructures, a sound module with authentic battle noises and a battery box (for X4 1.5V AA batteries, not included) www.revell.de/en



NEW FROM REVELL

Revell 1:24 Land Rover Series III

Revell have just launched a new-tool kit of the iconic Land Rover Mk.III Long Wheelbase and it looks stunning. More news soon

www.revell.de/en



ON THE WAY FROM TRUMPETER

A fantastic batch of new 1:35 military vehicle kits on the way from Trumpeter: M270/A1 Multiple Launch Rocket System, Norway, Russian 72V6E4 Combat Unit of 96K6 Pantsir-S1 ADMGS w/ RLM SOC S-band radar, M4 Command & Control Vehicle (C2V), Russian 9A53 Uragan-1M MLRS (Tornado-S), Chinese PHL-03 Multiple Launch Rocket System, Russian URAL-4320 CHZ truck, Airport Fire Fighting Vehicle AA-60 (MAZ-7310), Russian 5V28 SAM & 5P72 Launcher (SAM-5 Gammon) and Russian BREM-1 Armoured Recovery Vehicle.

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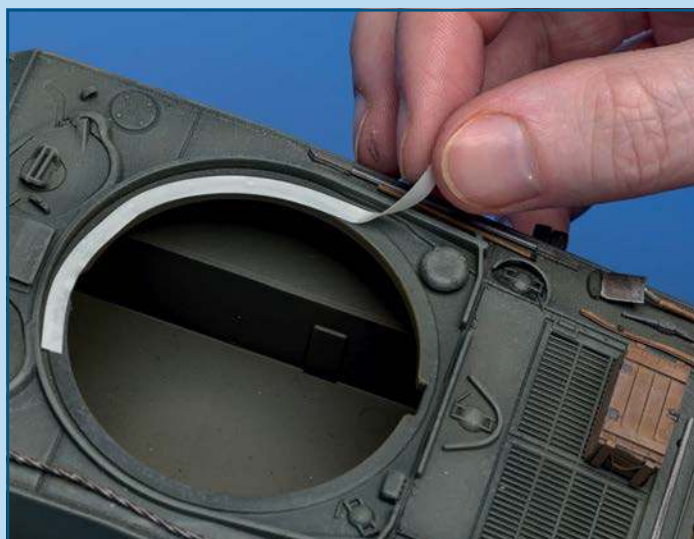
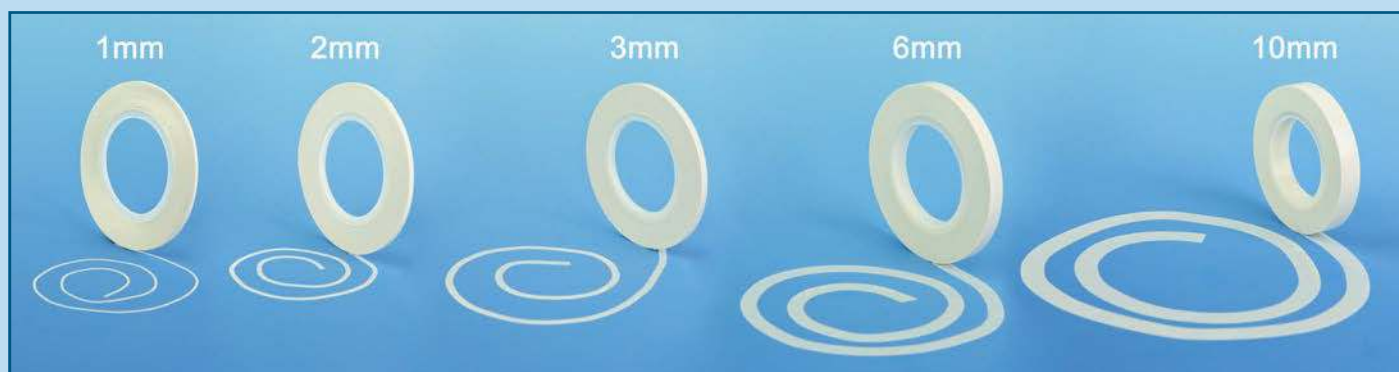
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FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR
TAMIYA 1:35 M3 STUART (LATE PRODUCTION) ● KIT NO.35360



ULTRA-LIGHT LEND-LEASE



Dan Moore builds Tamiya's 2018 1:35 Stuart Light Tank M3 Late Production as a 'Lend-Lease' machine in Soviet service

After the outbreak of WW2, the American military realised that their existing M2 Light Tank design was already near obsolete. By March 1941 production had begun on a newer vehicle which would become the Light Tank M3, otherwise known universally as the 'Stuart'. It differed somewhat from its predecessors in having a pair of large trailing idler wheels mounted at the rear, giving a somewhat ungainly appearance. It was powered by an air-cooled radial engine mounted in the rear and although still classified as a light tank was more heavily armoured than the M2 design. Armed with a turret-mounted 37mm gun and several supplementary hull and turret mounted .30cal Browning MGs it would still prove to be little match for the more heavily armed and armoured Pz.Kpfw.III and IVs when used by commonwealth forces in the North African theatre. In Lend-Lease service with the Soviet army it allegedly did not prove popular, requiring higher octane fuel (due to the fussier aircraft-originated radial engine) and possessing a narrow track system which performed poorly on the constantly muddy conditions of the Eastern Front.

TAMIYA'S NEW STUART

Tamiya released the brand-new M3 Stuart in 2018, following a recent trend of a few of their 1:35 range having a Russian flavour. Tamiya's original kit of the Stuart dates back to 1974, so it was certainly overdue for fresh start. The subject of this build, the Late Production version (Kit No.35360) possesses the later turret design minus cupola. The kit consists of 203 injection-moulded parts, including a set of rubber-band style tracks and string for cable. A typically well laid out instruction sheet is included, with marking options for two Soviet and one US vehicle. All in all it gives the modeller a very low parts count and a very straightforward build. ▶

FULL-BUILD: WORLD WAR TWO ALLIED ARMOUR

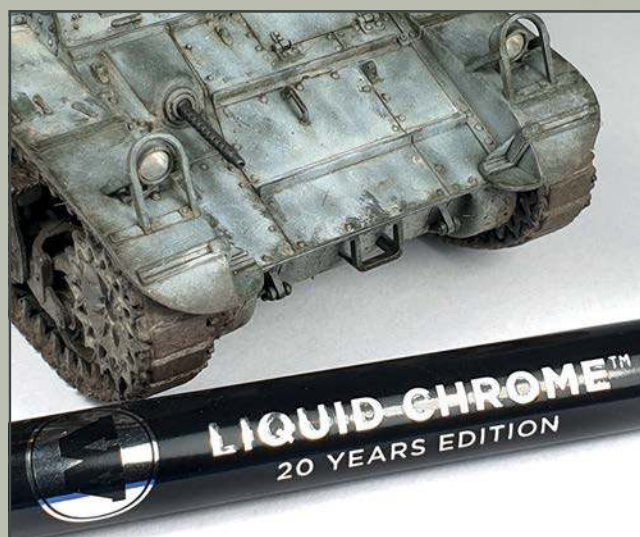
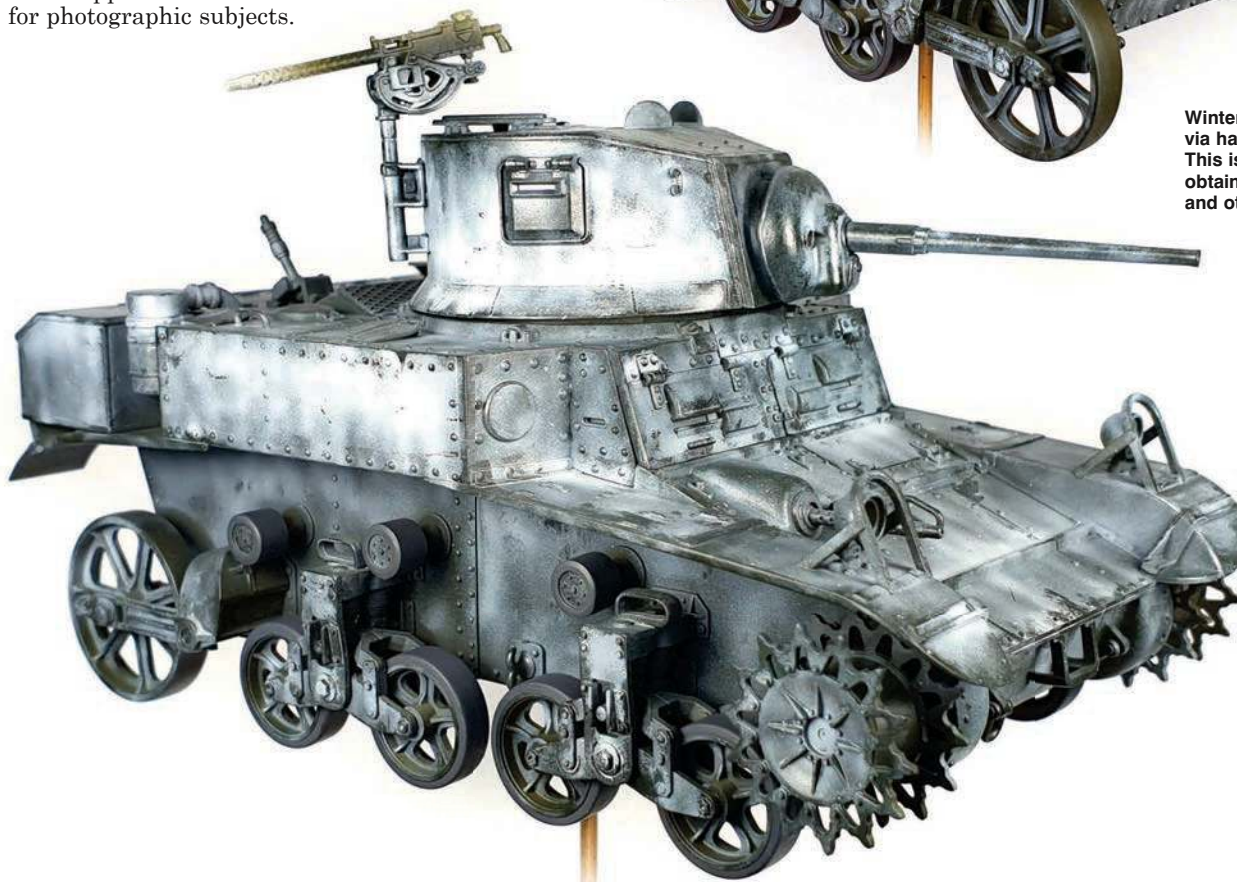
TAMIYA 1:35 M3 STUART (LATE PRODUCTION) ● KIT NO.35360

❶ DEFAULT START

To be honest when Tamiya released the new Stuart I was barely aware of the fact, as it was not in my usual interest scope. However, a fortuitous win at the local club raffle and I found myself in possession of this new kit! After researching images of Lend-Lease Stuarts my interest was awakened, especially with the option of portraying a distressed winter whitewash which was clearly displayed in some of the images. As there doesn't appear to be a lot of period photos of Lend-Lease Stuarts, one does wonder what the Russian forces actually thought about their stopgap charges – they certainly didn't appear to be a favourite choice for photographic subjects.



Winter whitewash applied via hairspray technique. This is a simple method of obtaining scale chipping and other wear



A chrome Motolow pen was used for the reflective headlight backings



Tamiya's rubber tracks are quite well detailed

A shot of the Stuart showing its diminutive size



CONSTRUCTION

As the construction is a very basic build I won't delve into too much detail, however I can say that it was carried out in a very leisurely pace over a weekend, with no stress involved whatsoever. As I was happily unaware of any subtle incorrect details that may be apparent to Stuart fans I happily dove into an strictly out of the box build. The lower hull and suspension units were quickly built up and test fitted, with the suspension units a nice snug fit that can be left unglued to facilitate easier painting later on. The upper hull was quickly glued together, with no undue gaps that required filling. The turret halves would require

just a little work to eliminate the join seam, with a light stippling of Tamiya Liquid Surface Primer laid on to add a hint of texture and fill in any remaining join seam. The hull sponson MG's were left off as Lend-Lease Stuarts didn't appear to have the MG's always fitted. Tamiya have thoughtfully included blanking plates to cover the MG ports should the need arise. The only other item to mention is the rubber band type tracks that are now able to be glued using Tamiya's ultra-thin cement (remember the staple or hot screw driver days?) and are actually quite nicely detailed. For a live track system fitted to vehicles like the Stuart these are more than adequate.

PRIMING, PAINTING, CHIPPING

The turret and hull received a coat of Tamiya Liquid Surface Primer, thinned with Tamiya lacquer thinners and applied with an airbrush. An overall coat of Tamiya XF-61 Dark Green was used as a base as it would provide a strong contrast underneath the overlaying winter whitewash. A layer of X-22 Clear was applied next to seal in and protect the underlying base colour. As per my usual method hairspray was applied through the airbrush over the turret and hull, then set aside to dry for an half an hour or so. XF-2 Flat White heavily thinned with lacquer

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Stuart rear, Tamiya's nicely rendered tools



- ④ thinners was applied over certain areas as per the worn finish seen in reference images. After this settled for a little while it was time to attack the winter finish using tap water, sharpened toothpicks and an old worn paintbrush, these can all be used to create scuffing, scratches and general wear and tear. After I was happy with the level of camo damage the finish was again sealed with X-22 Clear, and then the hairspray process repeated again using a dirtier winter camo mix of the white and a few drops of XF-57 Buff.

WEATHERING THE STUART

After the camo colours were applied to the hull, turret and lower running gear the build received a final coat of X-22 Clear to seal in the paintwork prior to weathering. The soviet divisional side sponson markings were applied with a fine brush and Vallejo acrylic Flat Red, with the tail lamps touched in with Tamiya X-27 Clear Red. The mirrored headlight reflectors were picked out using a chrome Molotow pen, I wish I had stumbled across these pens long ago as they provide a brilliant polished effect. Weathering commenced with an overall pinwash using Mig AMMO's Africa Korps Wash (A.MIG-1001), this is a darkish shade to make the raised and recessed details pop. A variety of oil shades were applied to simulate scuffs and scratches, with the winter camo blemished and mapping effects created with white oils and thinned Vallejo acrylic white.

The tracks received a coat of Tamiya's X-18 Semi-Gloss Black mixed with XF-64 Red Brown, with the track pads oversprayed in XF-1 Flat Black. Mig AMMO's Heavy Mud products (Thick Soil and Moist Ground) were applied to the tracks and lower hull for a filthy mud effect. Combined with a hint of light garden dirt and the odd tuft of Modelscene dried grass thrown in it provided a varied effect in the mud and dirt. Some of the mix was carefully flicked onto the hull sides and rear using a toothpick and an old paintbrush.

After the mud effects had dried ground graphite was applied to the track wearing surfaces and sprocket/idler using a finger and pencil. After I was happy with the overall look Testors

Dullcote was applied sparingly to knock off the sheen of the Tamiya Clear.

FINISHING DETAILS

The onboard tools were painted with Vallejo acrylics, and received weathering with thinned oils. The hull and turret MG's were finished in semi-gloss black, with ground graphite applied for a metallic sheen. The kit supplied commander figure is actually surprisingly good, Tamiya have certainly appear to have upped their game for kit figures judging by some of their latest releases. The figure was quickly assembled (using the appropriate head of course!) with Vallejo acrylics airbrushed onto the figure for the base colours. Thinned Vallejos were brush applied to accentuate uniform folds and add some variation to the facial flesh tones. The very last item to add was the fragile rear hull aerial, and just to fit completely into the retro-build theme was made up from the kit leftover stretched sprue.

FINAL THOUGHTS

I thoroughly enjoyed a totally out of the box build, and Tamiya's little Stuart certainly fits the bill for a pain-free exercise in modelling.

Highly Recommended. ●

TECHSPEC...

TAMIYA 1:35 M3 STUART (LATE PRODUCTION)
 KIT NO.35360

Accessories used

- None!

Paints and Materials

- Airbrushes – Delta .3mm
- Tamiya Acrylics: X-18 Semi-Gloss Black, XF-64 Red Brown, XF-61 Dark Green, XF-57 Buff, XF-2 Flat White, XF-1 Flat Black, X-27 Clear Red, X-22 Clear
- Tamiya Lacquer Products – Liquid Surface Primer, Lacquer Thinner
- Vallejo acrylic paints - Panzer Aces Dark Rubber 306, French Blue 71088, P.R.U Blue 71109, Flat Red 70957, various wood/flesh tones
- Molotow Chrome Pen
- Abteilung 502 - various oils (Light Mud, Light Rust Brown etc.)
- Testors Dullcote
- AMMO by Mig: Africa Korps Wash (A.MIG-1001), Thick Soil (A.MIG-1701), Moist Ground (A.MIG-1703)
- Tamiya Extra Thin Cement

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





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A front three-quarter view of a maintenance variant of the M3 showing to good effect a British-made vice added to the front winch assembly of this particular variant. This would seem not to be standard and may well be a collector's extra

HALF-TRACKED. ALL AMERICAN

Zack Sex brings us a look at the iconic World War Two US M3 halftrack vehicle in several of its variants

With nearly 54,000 examples of the M3 halftrack produced and seeing service with US Army, Marines, British Commonwealth forces and the Red Army one would imagine that the M3's ride to fame was flawless. This, however, was not the case. The M3 was first used by US forces in the Philippines in 1941 in America's desperate attempt to repel the Japanese invasion and suffered numerous mechanical problems. These issues were eventually ironed out but the vehicle was nicknamed the 'Purple Heart box' due to its thin armour and lack of overhead protection.

The fact that the rear idler tended

to break over rough terrain did not help matters. In time, a whole line of variants would spring from the original series including the M3A1, A2, E2, M5 and M9. To these standard variants would be added self-propelled guns and anti aircraft versions such as the M16 with four .50cal machine guns.

In five major conflicts with their neighbouring Arab states, it was the Israeli Defence Force who would get maximum use from the M3 halftrack series with TCM20 AA variants, ARVs, command vehicles, anti-tank guns, missile launchers and even a mine clearer. Israeli M3s and M5s would end up in the South Lebanese Army, in Zaïre and in South America soldiering

on, reconfigured with new engines, well into their 50s. Not bad for a simple boxy personnel carrier designed in 1939.

IN KIT FORM

Tamiya created three versions in 1:35 kit form; the M3A2 Personnel Carrier, M21 Mortar Carrier And M16 Multiple Gun Motor Carriage. The models were released in the mid-late 1970s and were immensely popular and are still much sought-after. ●



A detail view of the front of another M3 showing the armoured engine louvres and the front roller unit for navigating rough terrain. This simple device is found on many early M3s plus later variants



A heavily laden M3 plods its way down a muddy path during the War and Peace show in Kent. Of note are the handy fold-down stowage racks, weighed down with the crew's stowage and jerrycans



MODELLING REFERENCES

US M3 HALFTRACK SERIES



Detail shot of the lefthand side road light and night formation lights, which utilise a late-style guard unit with a double loop form, replacing the simpler single 'D' form of earlier variants



The right side of the same M3 with similar lights and guard construction but with the addition of a traffic horn below the set up



Detail shot of the front winch assembly. This unit had a control lever to the lefthand side for engaging/disengaging the engine clutch during operations. It is said that only one in four M3s had this winch unit



Close-up view of the cabin door, showing the steel-bar tie-downs and large, slot-headed screws used in the M3's construction



The cabin's running board is seen here, and its non-slip patterned surface. The reversed 'D' object is the stowage point for a shovel handle



The side-racks were most frequently used to hold mines but were soon filled by crews with their personal gear

Detail shots of the driver and in some cases gunner's seats. The cab, as stated, lacks any of the mod-cons of nowadays but be that as it may, it probably allowed the crew a better response time if suddenly attacked or ambushed





Detail shot of the maintenance M3 half track with that interesting British-made vice; perhaps it represents a Commonwealth forces vehicle. IDF M3 ARVs have two large stowage boxes mounted on the extremities of the winch assembly mudguards



A study of an early bogie system showing the rubberised one-piece track, idler, drive sprockets and wheels. After combat in North Africa a large spring-loaded assembly was added to the rear idler construction

A rear three quarter view of an Ireland-based M3, with fold-up stowage racks. This particular vehicle belongs to William Sullivan who runs his own military museum in Collon, the Irish Military War Museum. William says this M3 belonged to the Israeli Defence Force or more likely the Israeli Air force, as the engine in this case was left as a petrol unit and not converted to diesel as was standard with IDF ground-fighting M3s



KIT PREVIEW: STREET MOTORCYCLE

TAMIYA 1:12 YAMAHA XV1600 ROAD STAR CUSTOM ● KIT NO.14135



MEAN STREET MACHINE

Tamiya's big Yamaha returns and now it has pannier bags!

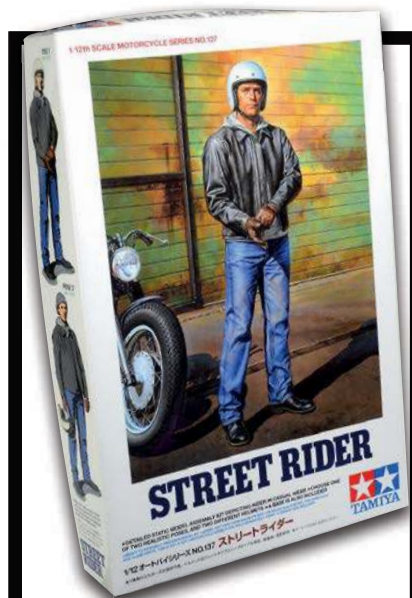
Big cruiser bikes are popular across the world and a lot of owners like nothing more than to customize them to their own tastes. This updated kit recreates just such a bike, a customized version of the mighty Yamaha XV1600 Road Star, the standard version of which was originally released as kit 14080 back in 2000. The XV1600 Road Star featured a 1,600cc V-twin that made it one of the most powerful

motorcycles of its day, with telescopic front suspension and a rear shock tucked out of sight for a classic 'hard-tail' look to accentuate the low-slung lines, and liberal use of chrome. This newly issued version includes a new pair of 'leather' pannier bags, new seat parts with riveted construction, a backrest and 'sissy bar' for the rear of the motorcycle, plus updated metal-plated, clear and standard parts and new decals. ●



Availability;

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



TAMIYA 1:12 STREET RIDER KIT NO.14137

As the perfect partner for the Yamaha XV1600 (or any of Tamiya's 1:12 street motorcycle kits), we have an all-new 1:12 figure depicting a male figure in jeans, leather jacket and hoody. He comes with the option of a helmeted head or wearing a knitted hat and holding the helmet, offering some neat display ideas. The latest 3D scanning techniques ensure that the detail looks completely realistic, including natural rendering of folds and creases on the clothing. Optional sunglasses and helmet visor are also included. ●



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Is that the new Eduard Mustang? **The Editor** checks out the stunning, all-new 1:48 P-51D

PARDON ME

Many months ago, after a lot of excited chatter on scale modelling internet forums and modelling clubs around the world, Eduard confirmed that indeed, they were working on a 100% new 1:48 kit of the iconic North American P-51D Mustang fighter. It was big news; Eduard's most recent offerings such as the Hawker Tempest have been little masterpieces and have firmly cemented the Czech company as one of the

leading producers of model aircraft kits, so having a new, modern model of this machine would be a real treat.

For a location to launch the new Mustang, Eduard chose the USA IPMS Nationals, held back in the summer in Chattanooga Tennessee. For added impact, Lt Edward F Pogue's P-51D 'Chattanooga Choo Choo' was chosen for the box-art, issued as a limited edition release just for that even, which is now out of

production. But don't worry, the next release will be on the way soon, so everyone can get their hands on one, or perhaps two, three or more kits...

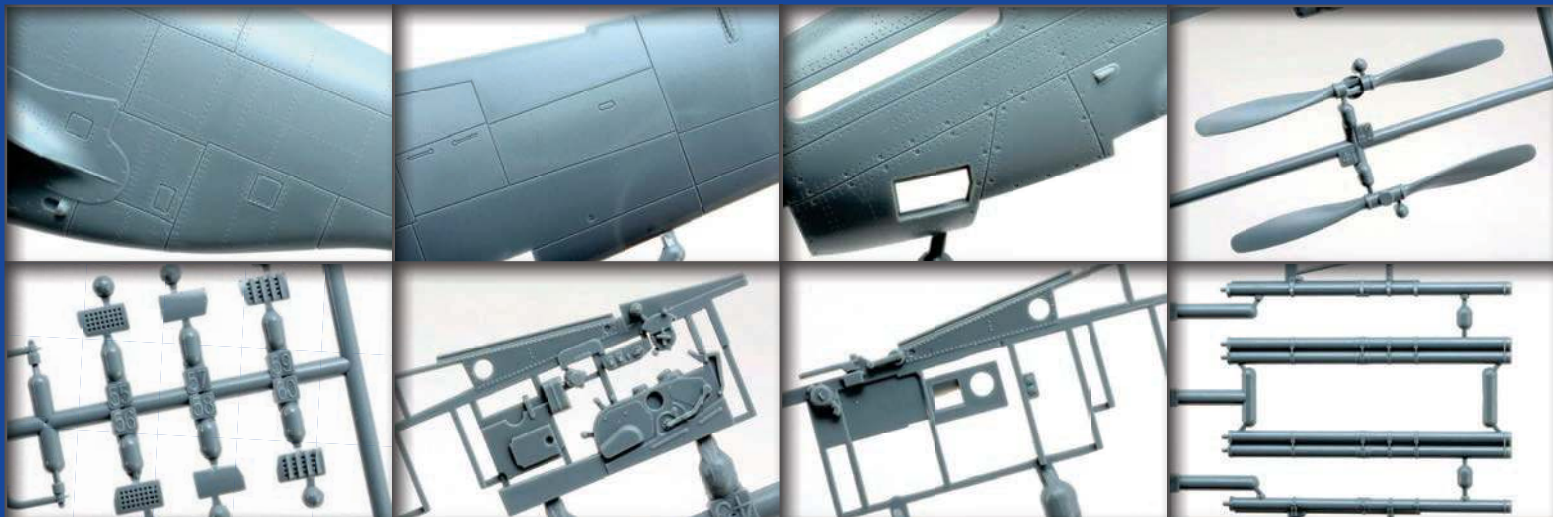
MARKING CHOICES

Including the example on the box-art, six markings-options are provided in the kit, as follows:

- Lt. Edward F. Pogue, 79th FS, 20th FG, Kings Cliffe, UK, 1945 (Serial No.44-13535)
- Lt. Clarence Boretsky,

334th FS, 4th FG, Debden, UK, 1944 (Serial No.44-13984)

- Capt. Freddie F. Ohr, 2nd FS, 52nd FG, Madna, Italy, 1944 (Serial No.44-13298)
- Lt. Thomas P. Smith, 370th FS, 359th FG, East Wretham, UK 1945 (Serial No.44-13893)
- Lt. Irving Snedeker, 364th FS, 357th FG, Leiston, UK, 1945 (Serial No.44-13783)
- Lt William G Cullerton, 357th FS, 355th FG, 8th AF, Steeple Morton, UK, 1944 (Serial No.44-13677)





Coming to soon TMMI's sister magazine, 'Model Airplane International' soon is Spencer Pollard's stunning build of this kit. Order your copy here: www.adhpublishing.com

BOY...

The kit comprises approximately 265 parts in Eduard's unique blue/grey polystyrene, of which 112 are not used for this version. Seventeen clear mouldings are provided, offering differing canopy types from the various factories in which these fighters were manufactured. Also in the box is a sheet of photo-etched parts that provide a pre-painted instrument panel, pilot's seat harnesses plus a host of various other detailed (and

tiny) components. Eduard's familiar and excellent pre-cut canopy masks are a welcome inclusion, easing this often tricky procedure considerably.

THE BEST 'STANG YET?

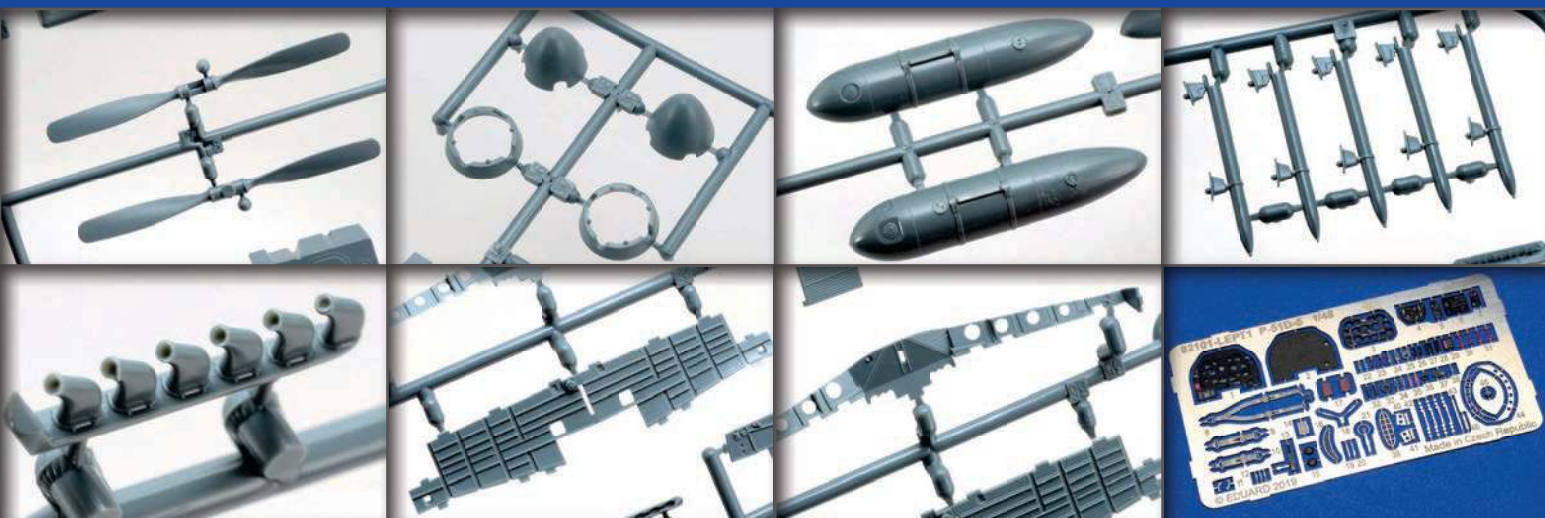
The kit is significantly more detailed and complex than any P-51D kit that precedes it, with a spectacular, multi-part main undercarriage bay, impressively comprehensive cockpit, individual ailerons, wing-flaps, elevators and

rudder, optional drop-tank types, propellers and even rear-view mirrors! The airframe is covered with thousands of extremely small recessed representations of rivets, complimented by delicately engraved panel lines and fasteners that will subtly come to life under layers of paint and weathering. It really is an amazing package and while it's not perhaps a kit for a beginner to scale aircraft, it will surely offer the most extensively detailed

replica of this machine yet produced in 1:48. We will be bringing you a full-build article on this model in TMMI in the near future, so keep reading! ●

Availability;

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



LET'S BE FRANK...



Paolo Portuesi makes extensive use of Alclad 2 metallic paints to finish Hasegawa's ageing but still excellent Nakajima Ki 84-I Type 4 Hayate 'Frank'

It is now over fifty years that Hasegawa has been an active scale models producer. In retrospect, Hasegawa is for the most part accountable for the boost in model kits quality that started in the early Eighties. Whoever is of my age and sharing this hobby since childhood, cannot forget the Hasegawa 1:48 F-16A Fighting Falcon. That kit hit the shelves in 1983, establishing new standards. It was accurate, had a well detailed cockpit, fit was

better than the average, box art was great, but what was really impressive were its high quality engraved panels. Since the quarter scale F-16, Hasegawa has a very mixed record. Some of its 1:48 aircraft kits are outdated at best. Others are amongst the best ever. However, strong is the consensus that when it comes to Japanese World War II fighters, Hasegawa is at its best. And that is surely the case with the Ki-84.

TWO DECADES OLD?

Times run fast. I cannot believe that this kit was released back in 1999. It is almost twenty years, but it seems like yesterday to me. Opening the box of this Nakajima Ki 84-I Type 4 Hayate (Frank) (9334) and looking at the sprues, it is even more difficult not to think that this is a present day release. Inside the box there are seven sprues carrying a lot of parts, more than one hundred, a lot for a World War II fighter in

1:48 scale. Sprue packing in a single bag is typical Hasegawa's style. A dozen poly-caps are included because they are needed to mount the drop tanks, gear legs and tail wheel. Sprues are moulded in the usual grey polystyrene. The canopy is a very clear, three-part affair. The parts redundancy and breakdown are typical of a kit for which Hasegawa planned the release of the different variants. Engineering of this model and mouldings are terrific. ●



The SBS Model resin cockpit (48023) is packed with detail and fits into the Hasegawa fuselage perfectly

FULL-BUILD: SECOND WORLD WAR AXIS AVIATION

HASEGAWA 1:48 NAKAJIMA KI 84-I TYPE 4 HAYATE (FRANK) ● KIT NO.9334

❶ SBS RESIN COCKPIT

As usual with World War II fighters, assembly starts in the cockpit and over twenty parts are included, some of them very small. So, you can be very happy just out of the box, but I could not restrain myself from taking advantage of the amazing SBS cockpit set (SBS-48023). It is a mix of resin and etched parts enhancing the cockpit detail up to the limits imposed by this scale. In addition, SBS resin parts fit into the Hasegawa fuselages without any real issue. Cockpit painting is quite simple, just dark green (shades of Mr Hobby H60) and Black (H12). In addition to the prescribed colours, to enhance the representation of the interior I first used some Alclad 2 Semi Matt Aluminium ALC-116 and finally I took advantage of a very heavy wash of Bruno Van Dyck oil paint. Both came in handy to bring to life the seat, but also many other small details. When everything was set and dry, the most prominent parts of the cockpit assembly received a very gentle drybrush with some

Humbrol Matt Aluminium (56) and my beloved Prismacolor Silver Pencil.

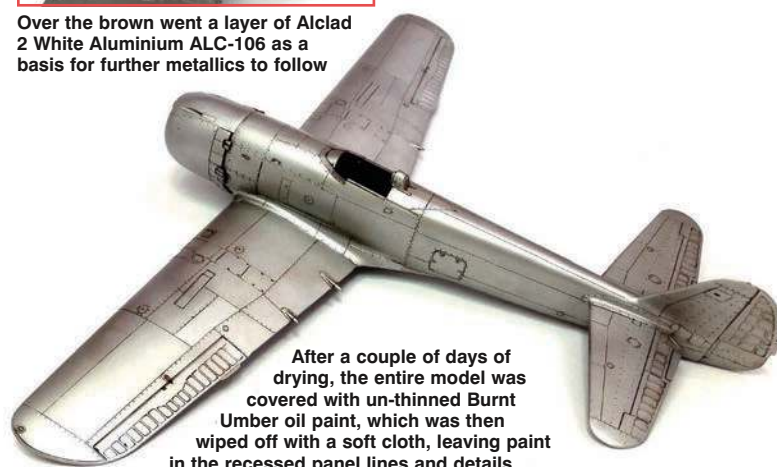
ENGINE IS ENOUGH?

A single bank of cylinders makes up the engine and it maybe needs some ignition wires. Other small engine details are separate pieces. Given that little of the engine is visible once assembled inside its cowl, the detail is sufficient, calling only for a careful painting according to the instructions and some gentle drybrushing. Hasegawa has planned the moulds in a way that the interior components fit quite positively. All the main parts of the assembly go together very well. Assembling the fuselage halves was easy, using just a little of Tamiya Extra Thin Cement; no filler is required. The fit of the wing assembly to the fuselage was precise. Again, no filler was required and the dihedral is correct. The rudder is split in two parts and that helped when setting it turned to one side. The horizontal elevators are moulded to key into each other and also their fit is very good.

The whole airframe was undercoated with Mr Hobby Cocoa Brown H-17



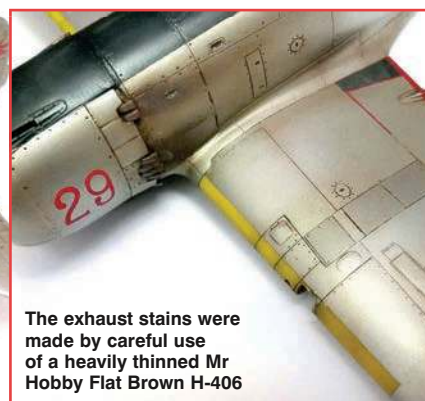
Over the brown went a layer of Alclad 2 White Aluminium ALC-106 as a basis for further metallics to follow



After a couple of days of drying, the entire model was covered with un-thinned Burnt Umber oil paint, which was then wiped off with a soft cloth, leaving paint in the recessed panel lines and details



The Hinomaru national insignia were painted, using masks by Montex (MM48011)



The exhaust stains were made by careful use of a heavily thinned Mr Hobby Flat Brown H-406

Mini Review...

BARRACUDACAST 1:48 BF 109G-5 TO G-14 MAINWHEELS, 4 STYLES (BR48387/88/89/90)
www.barracudacals.com

Tamiya – or any other 1:48 Bf 109G-6 kit – will benefit from this newly released wheel set from Barracudacast. In the pack is provided a pair of main-wheels with individually cast rear hubs in two types; Tamiya, with a large offset hole and another style with a standard hole. Detail is superb and the castings are flawless as we have come to expect from the premium manufacturer.





The clear areas of the canopy were effectively masked off, then sprayed with the same shades as the airframe

AIRFRAME COLOURS

With the major airframe components assembled and a few surface blemishes solved, it was time for a wash to remove the grease from my fingers and, finally, for the painting stage. All of the model received a very dark base, both to show residual imperfections and to work as a undercoat for the metallic paint. My choice was Mr Hobby Cocoa Brown H-17.

Afterwards, I sprayed the entire model with Alclad 2 White Aluminium ALC-106. When this was dry, I masked some selected panels to spray them some other Alclad 2 Aluminium shades, like Polished Aluminium ALC-105 and Semi Matt Aluminium ALC-116. After a couple of days, I covered the entire model with some un-thinned Burnt Umber oil paint, not to affect the Alclad 2 metallic finish. After a while, I cleaned the oil colour with a soft lens-cleaning cloth. Then was time for the detail painting, like the engine exhausts, the black antiglare panel over the engine hood and the yellow on the wings leading edge. All the movable surfaces were finally repainted Gunze Light Gray H-324.

INSIGNIA

Markings come from two different sources. The national insignia are offered by Montex (MM48011) in its masks line. I like to paint my models markings every time where possible, especially when it comes to the Japanese Hinomaru. So, after sticking the masks to the model fuselage and wings, I carefully sprayed several layers of quite thinned Mr Hobby Gloss Red H-3. When the red was fully dry, I applied some Burnt Umber oil along the panel lines again. ▶



The only improvement made to the undercarriage legs was the addition of brake lines. The tyres were painted Tamiya XF-1 Flat Black, followed by a gentle overspray of light shades of grey

FULL-BUILD: SECOND WORLD WAR AXIS AVIATION

HASEGAWA 1:48 NAKAJIMA KI 84-I TYPE 4 HAYATE (FRANK) ● KIT NO.9334

FINAL STAGES

Last step was to very softly overspray my Hinomaru with Alclad White Aluminium ALC-106, to blend them with the rest of the airframe. Tail

insignia and cowl numbers come from Skydecalsheet 48-041. Finally, portraying the exhaust stains and the weathering of the undersurfaces of this model involved a careful use of a

very thinned (over 70%) Mr Hobby Flat Brown H-406. To cut a long story short, I guess is enough to say that this old Hasegawa kit is a beautiful model of a beautiful aeroplane! ●

TECHSPEC...

HASEGAWA 1:48 NAKAJIMA KI 84-I TYPE 4 HAYATE (FRANK) KIT NO.9334

Materials:

Injection-moulded grey and clear polystyrene, polycaps, waterslide decals

Paints used:

- Mr Hobby Acrylic: H60, H2, H12, H324, H3, H1,
- Alclad 2: ALC 116, ALC 106, ALC 105, ALC 312

Accessories used:

- SBS Model: Ki-84 cockpit set: : 48023
- Montex: mask sheet; : MM-48011
- Skydecals: : 48-041
- Prismacolor Silver pencil

Other stuff:

- Tamiya Extra Thin Cement
- Mr Hobby Mark Softener

Many thanks to:

- Robert Bunn (Alclad 2)
- Jan Zdiarsky (Eduard Model Accessories)
- Daniel Lachman (Martola Model)

Availability:

- Hasegawa models are widely available from good model shops and online
- Alclad 2: www.hiroboy.com
- SBS Model: www.sbsmodel.com
- Mr Hobby/Mr Color products are imported and distributed in the UK by Albion Hobbies: www.albionhobbies.com

“This old Hasegawa kit is a beautiful model of a beautiful aeroplane!”

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PART 1

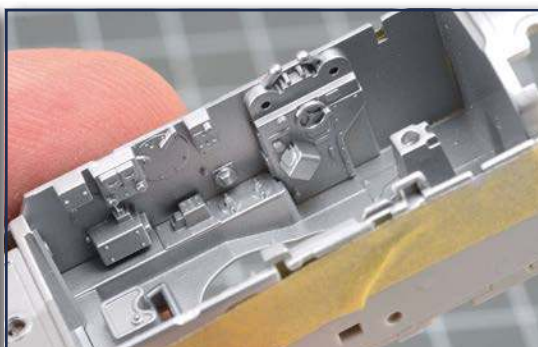
LIGHTNING STRIKES:

BUILDING TAMIYA'S 'GABELSCHWANZ TEUFEL' IN 1:48

The Editor starts Tamiya's all-new 1:48 P-38 Lightning: the cockpit and undercarriage bays are up first...

Tamiya's new-tool P-38F/G Lightning has created a storm of interest in past weeks and so it should, it's Tamiya's first ever model of this iconic World War Two American fighter and its complex airframe has been given the full Tamiya precision treatment. In this brief, initial part of my in-depth feature on the kit, I build, paint and weather the cockpit and undercarriage bays and zip up the airframe in readiness for the main painting stages. Next month I aim to finish the model, giving it a suitably weathering olive drab and neutral grey finish... See you next time! ●

Building and painting the Lightning's cockpit



The cockpit tub was first assembled 'dry' (without cement) and taped up. It was then given an undercoat of Tamiya's brilliant new LP-11 Silver Lacquer Paint



Once completely dry, a couple of coats of Mission Models' Russian Green Modern (MMP-032) – quite a close match for US Interior Green – were airbrushed on



With the main colour on, the cockpit panels were eased apart in readiness for detail painting and weathering. Applying the main colours this way means the cementing areas are naturally masked off by the parts they mate with



Here we see the side panels in their 'interior green;' colour. The MMP paint was kept deliberately thin so it could be easily scraped and scratched with a needle tip, to reveal the silver below



The raised details on the righthand side cockpit wall have been painted by brush using Vallejo acrylics and a dark colour-wash applied (Tamiya Panel Line Accent Color Dark Brown)



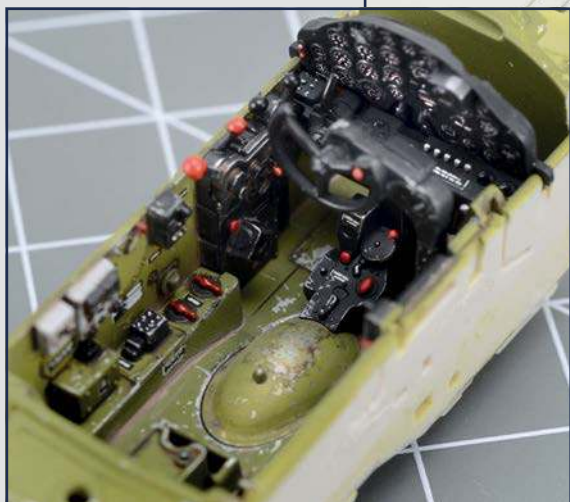
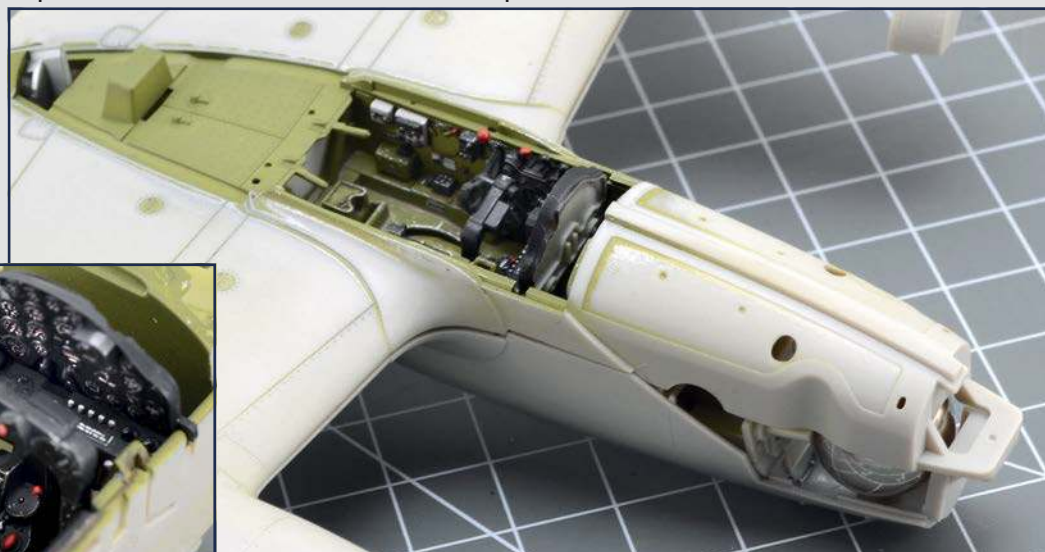
Lefthand side cockpit wall; note the data placards. These are not provided in the kit, but come from Airscale decal set No.AS48PLA 'Generic WW2 Allied Cockpit Placards', an extremely useful product (www.airscale.co.uk)



The cockpit floor was given an extra treatment of some dust in the corders and around floor-mounted structures. The decal on the top of the control column is supplied in the kit



The instrument panel was sprayed with Tamiya LP-1 Black (gloss), the dial decal applied and then recoated with Tamiya LP-23 Flat Clear. The dial faces were then 're-glossed' with drops of varnish. Note the wear and dust on the rudder pedals



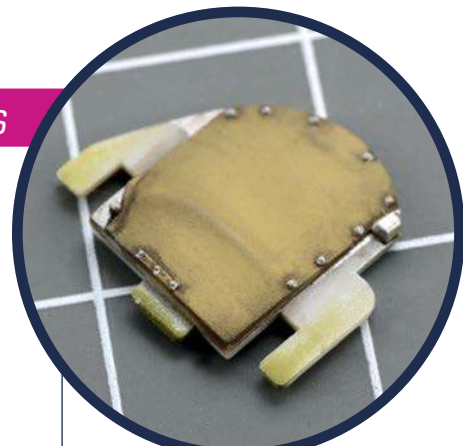
Here we see the completed (so far) cockpit tub sitting on the moulding that carries the front undercarriage bay roof and main-spar. The bulge on the floor is for the nose undercarriage wheel and is part of the aforementioned moulding

The upper and lower fuselage halves have now been brought together, sandwiching the cockpit tub. There's no pilot's seat yet, that will be fitted later on

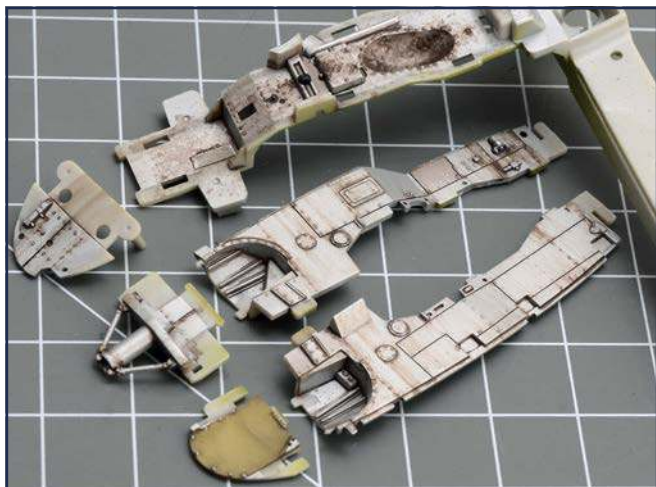
Building and painting the Lightning's undercarriage bays



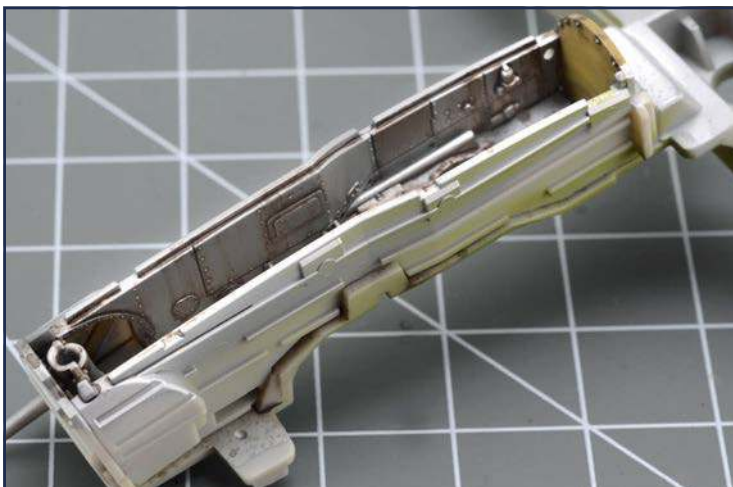
As with the cockpit tub, the front undercarriage bay was clicked together without cement (a practical proposition in this beautifully engineered kit) and the LP-11 Silver then airbrushed on. In this view, the UC well has been disassembled and a dark brown colour-wash applied. Plenty of 'muck' was applied to the concave recess for the nose wheel, the bulge that protrudes up into the cockpit floor



The rear bulkhead of the front undercarriage bay was covered with canvas in reality, so it was painted khaki as indicated in the instructions



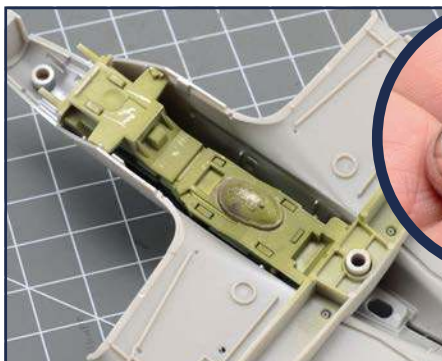
All the parts for the front undercarriage bay are seen here, including the forward bulkhead with the twin-braced 'socket' for the undercarriage leg



Here is the slim front bay cemented up and almost ready to be sealed within the upper and lower fuselage halves



The lower edges of the front undercarriage bay aperture were sprayed silver as they will be visible after the bay is fitted



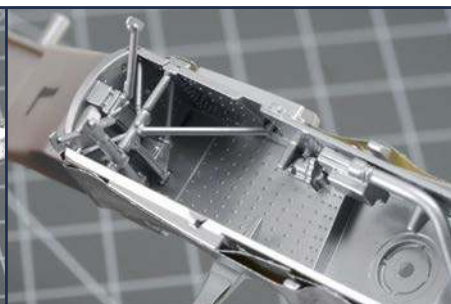
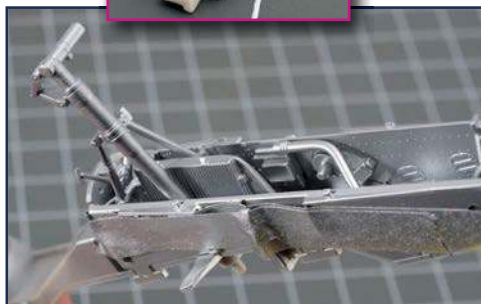
The main-spar/front undercarriage bay sub-assembly fits positively into the lower fuselage moulding and is cemented at several points



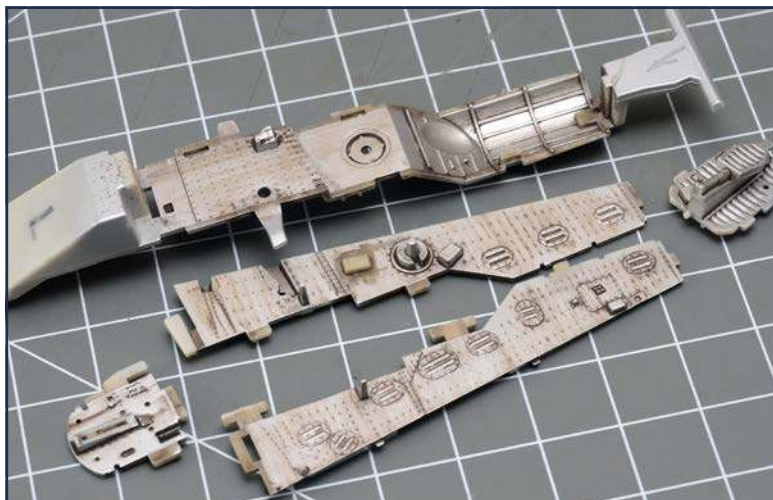
P-38 models are notorious tail-sitters, so Tamiya took the belt-and-braces approach by providing not one but three large ball-bearings to keep the nosewheel on the ground. One of these bearings sits in a recess at the very tip of the nose for maximum forward leverage. The two pins keep it in place. You can see your author's hands and camera lens in the reflection!



One criticism that might be levelled at this kit is the fitting of protruding – and therefore vulnerable – undercarriage struts, quite early on in construction. To allow their installation later on, a slight modification was made by removing the location tabs that lock each strut into the forward bulkhead. This reduces the final robustness of the strut slightly, but it will not weaken the main legs' strength. In this image, the standard strut (behind) and modified part, minus its location tabs (front) can be seen.



Several other parts inside the main undercarriage bays are indicated for installation early on too, but after some experimentation it was discovered they can all be threaded into the bay towards the end of the model's overall construction. Here, everything – including the main legs – has been fitted 'dry' for painting



As with the front undercarriage bay, the main bay parts were disassembled and treated to some weathering. Tamiya Panel Line Accent Color 'Dark Brown' was used here to create oil stains and a general film of dirt

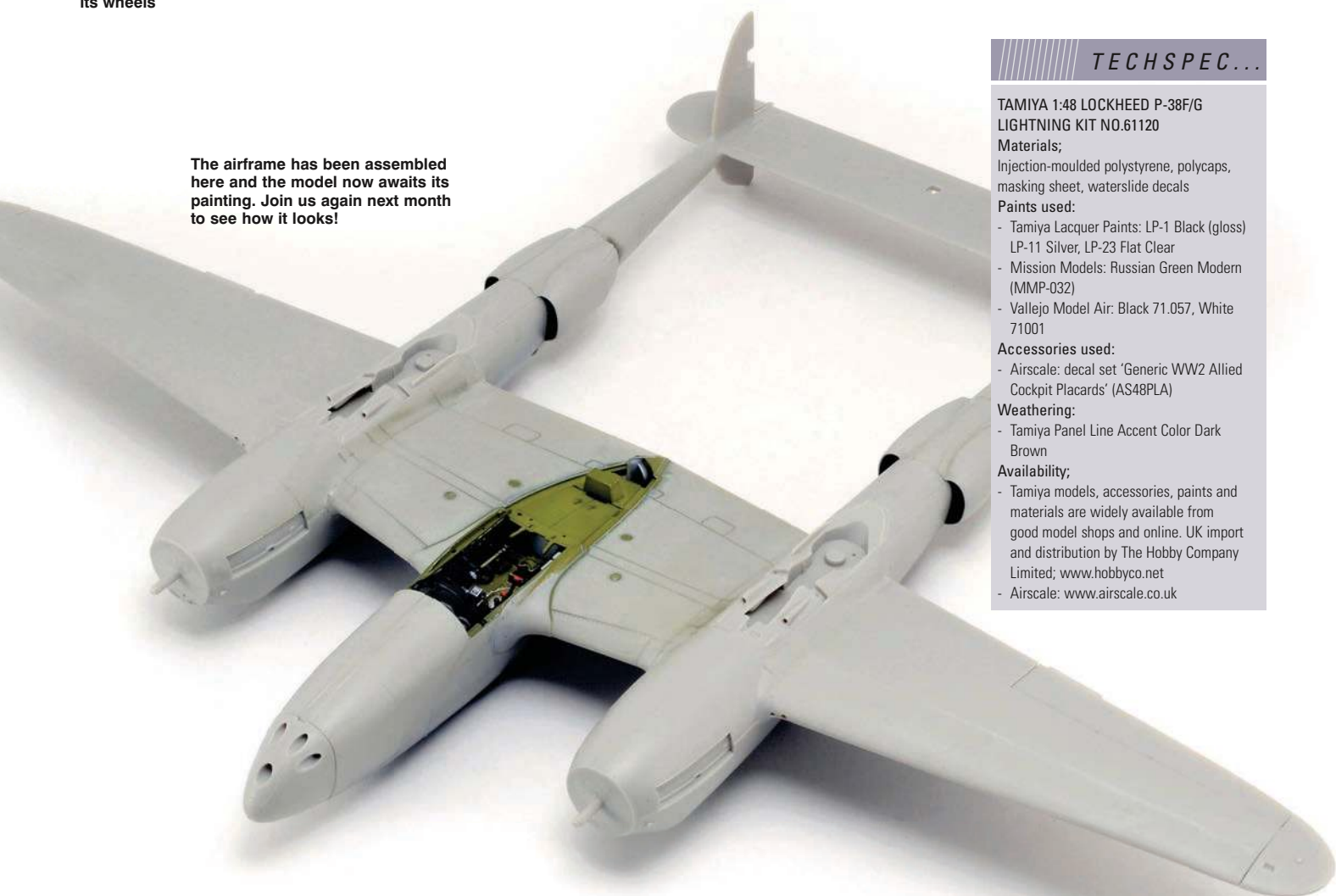


The remaining pair of ball-bearings are fitted into cavities inside the engine nacelles and act to keep the Lightning firmly on all three of its wheels



Once the main undercarriage bays had been installed, smaller details like the coolant pipe and turbocharger intake ducts could be installed

The airframe has been assembled here and the model now awaits its painting. Join us again next month to see how it looks!



TECHSPEC...

TAMIYA 1:48 LOCKHEED P-38F/G
LIGHTNING KIT NO.61120

Materials;

Injection-moulded polystyrene, polycaps, masking sheet, waterslide decals

Paints used:

- Tamiya Lacquer Paints: LP-1 Black (gloss) LP-11 Silver, LP-23 Flat Clear
- Mission Models: Russian Green Modern (MMP-032)
- Vallejo Model Air: Black 71.057, White 71001

Accessories used:

- Airscale: decal set 'Generic WW2 Allied Cockpit Placards' (AS48PLA)

Weathering:

- Tamiya Panel Line Accent Color Dark Brown

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
- Airscale: www.airscale.co.uk

LEICHTER PANZERSP

The Leichter Panzerspähwagen, which translates roughly as 'Light Reconnaissance Armoured Car' was a series of light, four-wheel drive armoured cars produced in Nazi Germany from 1935 to 1944. The Sd.Kfz.222 was the second in this series, designed to meet operational requirements including reliability, an ability to run on a variety of grades of fuel, simple construction plus offer good off-road performance. The first in the series was the Sd.Kfz. 221, but it proved too small and too lightly armed, so in 1936/37 a heavier version was planned, using one of two standard chassis for four-wheeled armoured cars. One of these used a front-mounted engine, the other rear-mounted. The latter was used in the Sd.Kfz.222, which became the standard light armoured car in German army service until the defeat of Nazi Germany in 1945.

The rear-mounted petrol engine was originally a 3.5 litre Horch V8 generating 74bhp; from 1942, this was replaced by a 3.8 litre unit of 89bhp, giving it a road speed of 50mph (80km/h) and a cross-country speed of 25mph (40km/h). It had a maximum range of 186 miles (300km). Used by the reconnaissance battalions (aufklärungs-abteilungen) of the Panzer divisions, the vehicle performed well enough in countries with good road networks, like those in Western Europe. However, on the Eastern Front and North Africa, this class of vehicle was hampered by its relatively poor off-road abilities.

The Sd.Kfz.222 was fitted with heavier armament and larger turret than the Sd.Kfz.221 but it was still comparatively cramped and lacked top protection other than a wire-mesh grenade shield, but this made using the main armament problematic. Co-axially mounted with the 7.92mm MG13 machine gun, the 2cm KwK 30 L/55 were pintle-mounted, fitted with an elevation and traverse mechanism and floor-mounted firing mechanisms. The turret was rotated by the traversing weapons rather than the weapons being fixed to a traversing turret. There was thus no bearing-ring and no turret basket, only a fighting compartment largely obstructed by the breeches of the weapons. Production ran from 1937 to late 1943, with at least 990 vehicles being produced for the army. ►

*Vehicle history edited from Wikipedia.



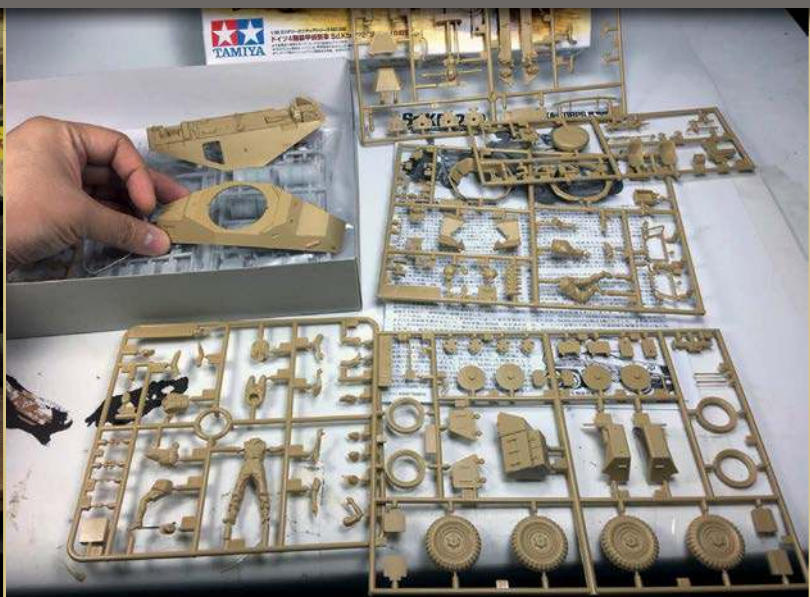
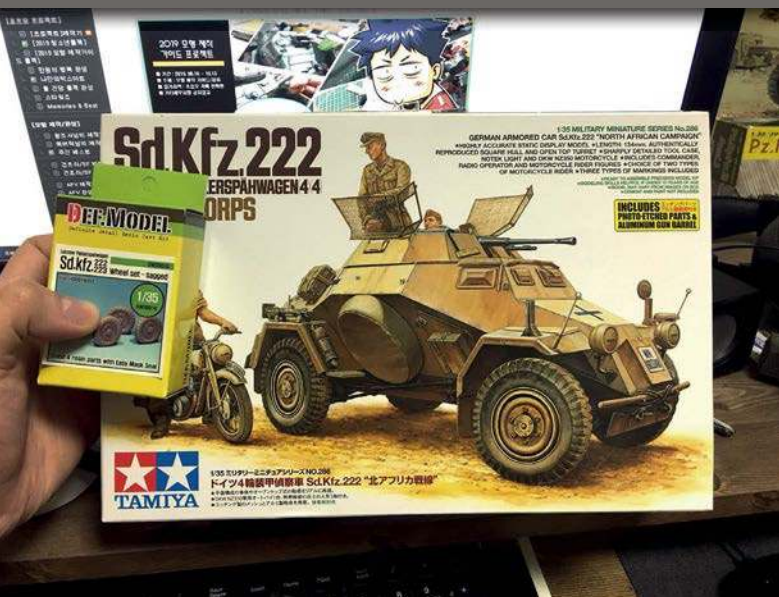
Sungjun Jang takes a true Tamiya classic and brings it up to date with DEF Model wheels and some creative paint and weathering

PÄHWAGEN



FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 SD.KFZ.222 LEICHTER PANZERSPÄHWAGEN 4X4 AFRIKAKORPS ● KIT NO.35286



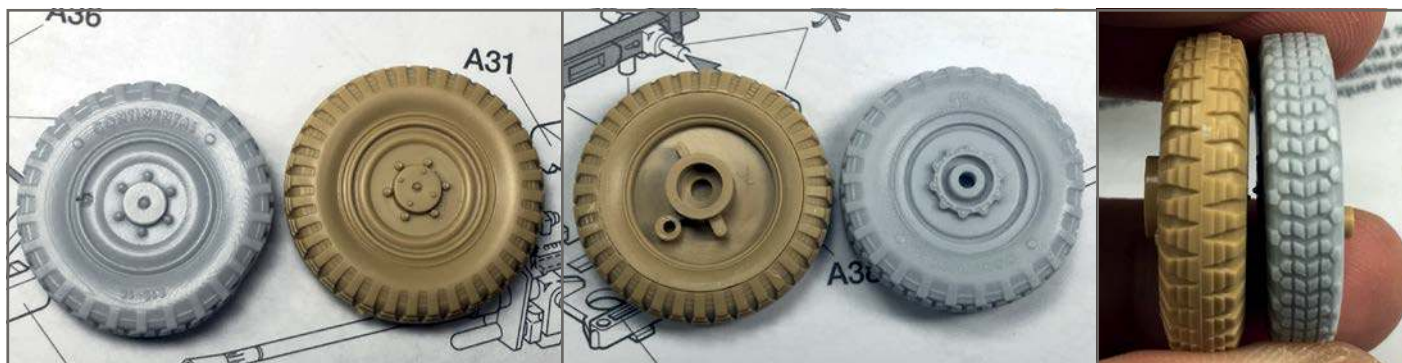
Tamiya's 1:35 Sd.Kfz.222 with DEF Model wheel set and plus some aftermarket accessories

IN 1:35 FORM FROM TAMIYA

Tamiya's original Sd.Kfz.222 was released back in 1975 and given the advances made in model kit technology since, it has stood the test of time well, but older kits will always need some upgrading to bring them to modern standards. In 2007, Tamiya released the 'Afrikakorps' version of the kit,

adding the DKW motorcycle to the box plus a photo-etched turret screens and an aluminium main gun barrel. These parts certainly refined the kit to a degree, but for the full makeover, Royal Model (www.royalmodel.eu) offer three upgrade sets (Pt.1 325, Pt.2 326, stowage 344) plus wheels/tyres which replace over-thick exterior

structures, plus offer a full interior. In this article, we can see a good 'halfway' approach that upgrades some of the kit's external parts and crucially, replaces the wheels/tyres with a set of weighted resin items from DEF Model that massively improve the look of the finished model. Read on to see how it happened! ●



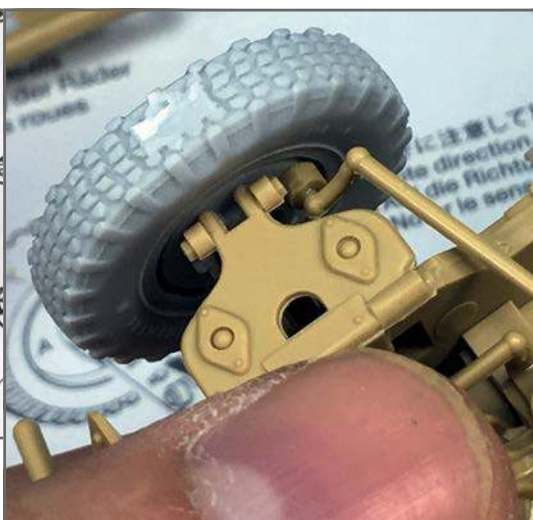
The resin wheels from the DEF Model set (grey). The kit wheels still look decent, but the resin items are more detailed and incorporate a weighted appearance.



The DEF Model set was originally designed for the Hobbyboss kit, so the author removed the steering location 'holes' from the kit wheels and CA-glued them to the new resin wheels



The holes in the hubs were enlarged with a modelling knife to fit the Tamiya stub-axes





Even before the exterior details were added, the model has the correct 'sit' on its new, flat-spotted resin wheels



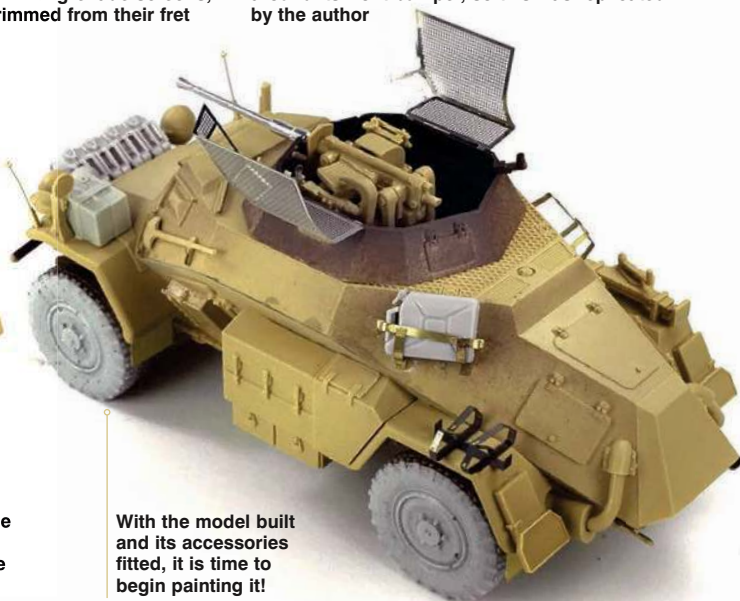
The 2007 edition of this kit came with a fret of photo-etched metal for the turret grenade screens; they are seen here being trimmed from their fret



The Sd.Kfz.222 was often seen with rope tied around its front bumper, so this was replicated by the author



A handful of brass parts (some home-made) plus the DEF Model wheels breathe new life into this vintage Tamiya kit



With the model built and its accessories fitted, it is time to begin painting it!



Mr. Hobby 'Mr Mahogany Surfacer 1000' formed the base colour and was evenly applied to all surfaces. It's essential to spray it evenly from different angles to avoid blank spots



AMMO by Mig Satin Varnish was then applied over the whole model, to offer good adhesion for the acrylic top colours to be airbrushed later



The model was then sprayed with AMMO by Mig acrylic French Blue and Dunkelgrau, mixed 50/50, to form the basic 'Panzergrau' colour of a slightly blueish grey



AMMO by Mig's 'Heavy Chipping Effects' fluid was applied by airbrush and allowed to dry for half a day. Be careful not to apply too much and apply evenly

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 SD.KFZ.222 LEICHTER PANZERSPÄHWAGEN 4X4 AFRIKAKORPS ● KIT NO.35286



AMMO by Mig's acrylic RAL802 Gelbbraun (A.MIG-016) was airbrushed over the whole model. This is an excellent colour for desert vehicles



The author used two flat brushes for the heavy chipping effects, both moistened with tap water; a larger brush for the bigger areas and the small brush for the detailed paint chips and scrapes. Naturally, this was kept mainly on corners



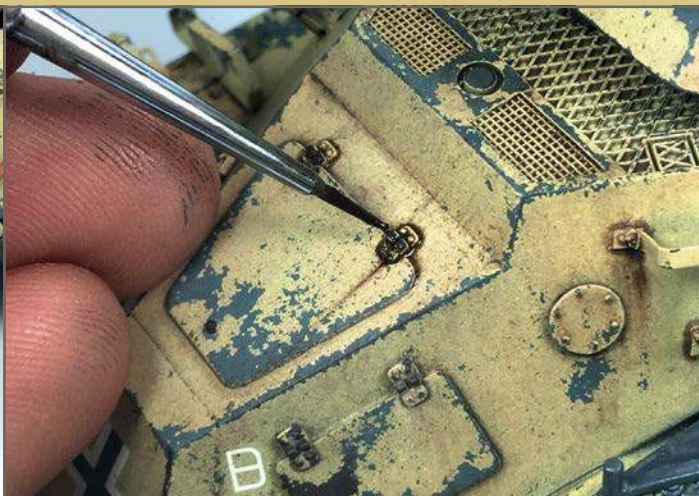
The paint effects were also applied to the gun, although much of this will be painted gunmetal later



The row of jerrycans was painted and weathered off the model, then fixed with epoxy putty for strength



The oily raw umber colour-wash was applied in a way to express the direction of gravity



AMMO by Mig 'Light Dust' enamel wash was applied to the wheels directly from the bottle and when dry, the excess wiped from the outside of the wheels with a brush, lightly moistened with white spirit





Burnt sienna oil paint was applied to the exhaust, then dark, mud-coloured pigments applied on top of it



Localised 'pin' washes were flowed into areas where the detail had become 'blurred' by the accumulation of pigment powder



Extra surface 'chips' were applied using a piece of sponge. The paint used is Mig acrylic 'Dunkelgrau'



Using graphite pigment, the barrel of the 20mm cannon was gently polished for a realistic metallic effect



Buff-coloured oil paint was applied in key places to add highlights to the desert yellow colour

FULL-BUILD: WORLD WAR TWO AXIS ARMOUR

TAMIYA 1:35 SD.KFZ.222 LEICHTER PANZERSPÄHWAGEN 4X4 AFRIKAKORPS ● KIT NO.35286



TECHSPEC...

TAMIYA 1:35 SD.KFZ.222 LEICHTER
PANZERSPÄHWAGEN 4X4
AFRIKAKORPS KIT NO.35286

Materials;

Injection-moulded polystyrene, photo-etched metal, aluminium gun barrel, waterslide decals

Paints used:

- Mr. Hobby 'Mr Mahogany Surfacer 1000
- AMMO by Mig: French Blue, Dunkelgrau, RAL802 Gelbbraun (A.MIG-016), Heavy Chipping Effects

Accessories used:

- DEF Model Sd.Kfz.222/223 wheel set - sagged (DW30010)

Availability;

- This kit is out of production, so check online auction websites to buy it second-hand.
- 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
- DEF Model: www.defmodel.com
- AMMO by Mig: www.migjimenez.com



With a few aftermarket parts and some creativity, this forty-four year old kit can still look great!



P-51D-5 1/48

eduard

ProfiPACK
edition



Historically first release of the version without the dorsal fin fillet

Plastic parts Eduard
PE-Sets and painting mask Eduard
Decals by Eduard for 6 markings

Available accessories:

481000 P-51D (PE-Set)
644021 P-51D-5 LööK (Brassin)
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648487 P-51D Hamilton Standard propeller (Brassin)
648489 P-51D-5 cockpit (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)
EX663 P-51D TFace (Mask)

s/n 44-13321, Maj. George Preddy Jr., 487th FS, 352nd FG, 8th USAAF, Bodney, United Kingdom, July 1944



s/n 44-13321, Maj. George Preddy Jr., 487th FS, 352nd FG, 8th USAAF, Bodney, United Kingdom, June 1944



s/n 44-13322, Capt. John M. Simmons Jr., 317th FS, 325th FG, 15th USAAF, Lesina, Italy, August 1944



s/n 44-13606, Capt. Claude J. Crenshaw, 369th FS, 359th FG, 8th USAAF, East Wretham, United Kingdom, September 1944



s/n 44-13859, Lt. Walter Mullins, 55th FS, 20th FG, 8th USAAF, Kings Cliffe, United Kingdom, September 1944



s/n 44-13318, Lt. Col. Thomas L. Hayes Jr., CO of 364th FS, 357th FG, 8th USAAF, Leiston, United Kingdom, August 1944



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OCTOBER 2019 Cat. No. 82101 @eduard.com

FULL-BUILD: STREET CAR

TAMIYA 1:24 NISSAN 370Z HERITAGE EDITION ● KIT NO.24348

2ED'S



IS NOT DEAD, BABY



Lionel Abdecker builds the Tamiya 1:24 Nissan 370Z Heritage Edition

To reproduce the Heritage Edition, Tamiya has done like Nissan: it evolved the kit of the 370Z released in 2009. So we find in the box a new modified sprue for the front spoiler plus four new matt-chrome wheels with a beautiful effect, even if it must repaint them to stick to reality. The transparent sprue has also been modified, now incorporating the lenses of the new LEDs in the front spoiler.

I often start my car builds by the bodywork which requires relatively long drying times compared to other elements of the model. The sills were fixed with a Tamiya Extra Thin Cement introduced from the inside. This assembly must be robust because the lower part of the body will be under tension during assembly on the chassis. For the front panel, I only glued the part in contact with the bonnet;

the areas adjoining the wings were not yet cemented to allows for some play during installation on chassis.

BODYWORK

Once the body had been assembled, I sanded the very fine mould part-lines and then cleaned it all with water and washing-up liquid. Once dry, the body was installed on the Tamiya paint rack, a piece of equipment that has become almost indispensable over the years. A thorough inspection of the surfaces was carried out in order to track down any dust particles and I then sprayed a coat of Tamiya white primer (aerosol).

This first light layer reveals the slightest sanding imperfections that are corrected after drying, if necessary. A Tamiya engraving tool was used to deepen the shut-lines to avoid them disappearing ▶



The component parts of the bodywork must be cemented together securely, in order to avoid breakage during installation on the chassis

FULL-BUILD: STREET CAR

TAMIYA 1:24 NISSAN 370Z HERITAGE EDITION ● KIT NO.24348



Minor traces of moulding joints were erased with Tamiya abrasive sponge (2000 grit)



After applying Tamiya white primer, the shut-lines were deepened with the Tamiya engraving tool, to avoid filling them with the layers of paint that will follow



Four layers of TS-47 Chrome Yellow were applied to the body, then left to dry for about a week



The body was polished with the three Tamiya Compounds in descending order of grain coarseness, before applying layer of Tamiya Modelling Wax with a microfiber cloth

coat of TS-47 Chrome Yellow was sprayed. Once dry (I let it rest usually for forty-eight hours near a radiator) the body was sanded with a 2000-grit Tamiya abrasive sponge and then cleaned

in my opinion, softens the details and is not realistic in scale. The bodywork was still polished with Tamiya Coarse, Fine and Finish compounds in that order. The decals – of which there are few – were then applied with the help of the solvent 'Mr Mark Setter' (Mr Hobby) ensuring the proper alignment of the bands. The application of a protective layer of Modelling Wax Tamiya brings an end to the finishing of the bodywork.

The front and rear lights were then fitted from the inside using cyanoacrylate which was left to harden for fifteen minutes. The bodywork was then set aside while working on the chassis.

CHASSIS

The basic shade of the chassis is identical to the bodywork. After a primer and application in two layers, the other colours were successively applied with progressive masking: XF-1 Flat Black for the transmission shaft, the differential and the gearbox, X-18 Semi-Gloss Black for the wheel wells, the thermal shroud of the exhaust and engine protection, XF-16 for exhaust primers, thermal coatings and exhaust support.

The elements of the suspension were painted according to the instructions before being fitting to the chassis. The wheels have

under the layers of paint to come. A second, heavier layer of primer will provide a good base for the top colour. After drying and a final inspection, a first light

with water and inspected. This sequence will be repeated four times to obtain a beautiful depth of paint. This allows me to obviate the need for varnish, which,



The front axle, which supports the shock absorbers and suspension wishbones was under-coated in XF-1 Flat Black, masked off then painted in XF-16 Flat Aluminium. Black Tamiya Panel Line Accent Color was then applied



The rear suspension would benefit from the same treatment and the front

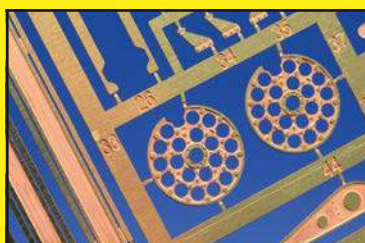
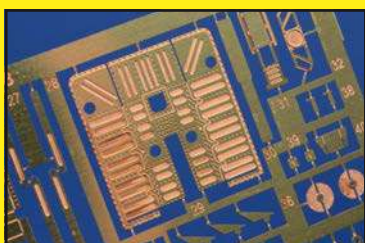


After an application of XF-16, the exhaust line received a fine layer of X-26 Clear Orange around the bends, then a little X-23 Clear Blue

Mini Review...

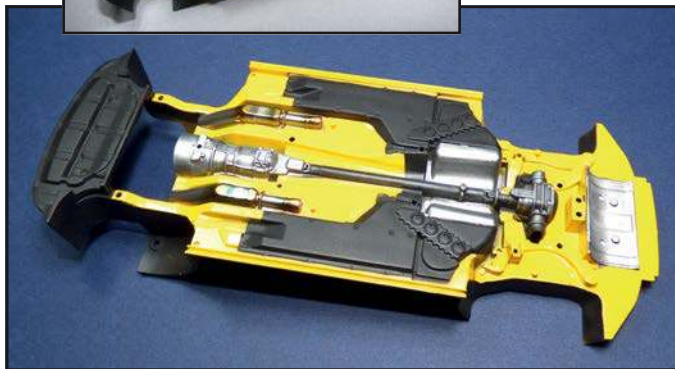
EDUARD 1:48 PHOTO-ETCHED BRASS DETAILS FOR ZVEZDA YAK-130 (49978)
www.eduard.com www.creativemodels.co.uk

Zvezda's 1:48 Yak-130 is a superb new kit that's packed with detail and refinement. Eduard's new photo-etched set just makes it better. On the two frets we are treated to pre-painted parts for the instrument panel faces and side consoles, canopy-cutters for the top of the ejector seat, heads-up display frames, airbrake inner surface, missile-pylon runners and more. The only thing missing is a set of seat harnesses, for which you must buy Set No.FE979





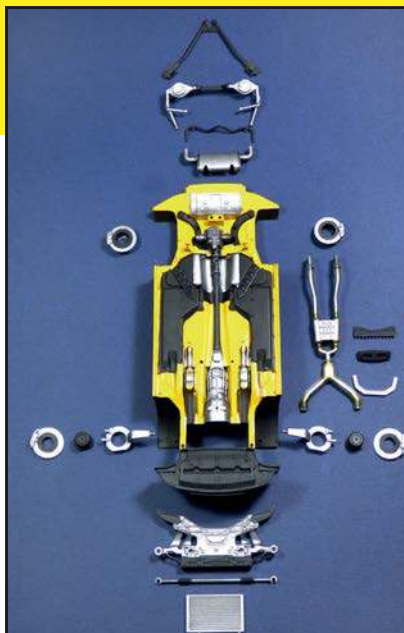
After applying white primer and two a layer of TS-47 on the underside, the chassis was masked and XF-1 Flat Black applied



Some elements were again masked off, to allow for XF-16 spraying. After three consecutive masking sessions, that's the result



The glass parts are grouped as one piece. To paint easily and cleanly the borders, the masks provided were trimmed out and applied and X-18 Semi-Gloss Black applied in two thin layers



Here we see the elements of the suspension, painted and lightly weathered and ready to join the chassis



That's done. Tamiya made this step easy and enjoyable

a fine and subtle chrome effect, but they will have to be painted them in dark gunmetal for this particular car. Without primer (the chrome coating is sufficiently flat for the paint to adhere to), two coats of LP-19 Gun Metal with 50% LP-5 black were applied. These new Tamiya Lacquer paints really give good results! The central decals were then applied and a layer of TS-13 Clear was airbrushed and the wheel nuts touched in with the Molotow Chrome ink pen.

INTERIOR

Left or righthand drive? The choice is offered by Tamiya with all the parts needed for both options. For me, I had to go with the continental Europe version with steering wheel on the left (It should be on the right for a Japanese car). All the parts of the cabin were fixed on rods that would facilitate the painting operation. An underlay of XF-1 Flat Black was applied, with the exception of the areas that would be yellow; steering wheel, gear

lever and base of the centre console. These were primed in white and then painted with two layers of XF-3 Flat Yellow. After masking the yellow areas with Maskol Humbrol, the rest of the steering wheel and lever were painted in X-18. Decals on the dashboard dials were punched out to help them fit more easily into their bezels.

All the cabin windows are grouped into one piece. The masks supplied by Tamiya to paint the glass surrounds were affixed to the inside and two thin layers of X-18

Semi-Gloss Black – spaced one hour apart – were applied. I let this dry twenty-four hours before removing the masks. The clear moulding was attached to the 'ceiling' with drops of cyanoacrylate. Do not forget to glue the rear view mirror whose reflective surface is represented by a metal transfer. The wing indicators are also placed at this stage. I advise you to apply the metal transfers now, while you can still exert pressure on the indicators from inside the bodywork. ▶



The floor of the cockpit was covered with Spotmodel flocking. To fix it, LP-24 Semi-Gloss Clear was applied by brush on the parts to be treated. The flocking was sprinkled in place and the 'carpet' texture obtained is very convincing



The chrome pedals were painted in black XF-1 then the raised parts gently scraped with a wooden toothpick lightly soaked with X-20A thinner so the chrome would re-appear



The decals representing the dials were punched out so they would fit into the bezels



The cabin, finished. Note the yellow central parts of the seats are reproduced by decals

FULL-BUILD: STREET CAR

TAMIYA 1:24 NISSAN 370Z HERITAGE EDITION ● KIT NO.24348



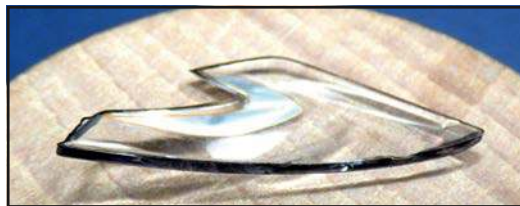
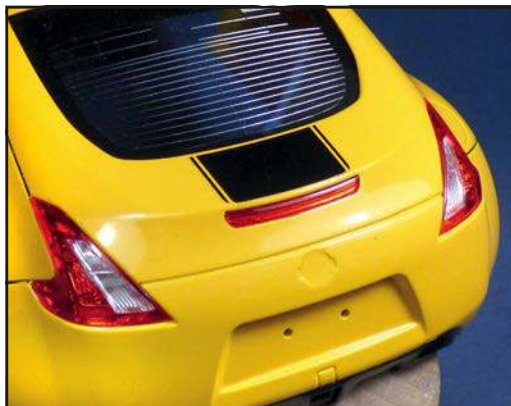
The headlight reflectors were painted X-18 Semi-Gloss Black before being scraped with wooden toothpicks, in order to make the chrome reappear in the places indicated by the instructions



The rear light-lenses are being assembled here. A drop of LP-9 Clear freezes the assembly without leaving a trace



The door handles, painted with the same mixture as the rims, were installed with the help of this 'tool': a ball of BluTack on the end of a wooden stick



The rear lights are in place. The central brake light housing was painted with a fine brush with Molotow chrome ink, then the translucent red part was inserted and fixed via capillary action with a drop of LP-9 Clear gloss varnish

The edges of the headlamp covers were highlighted in black to hide the thickness of the plastic. Do not forget to apply the decal for the indicator

TECHSPEC...

TAMIYA 1:24 NISSAN 370Z HERITAGE EDITION KIT NO.24348

Materials;

Injection-moulded plastic, plated parts, translucent red, soft vinyl tyres, metal transfers, masks, waterslide decals

Accessories used:

- Spotmodel: Black flocking
MasterBox: Figurines 24041 and 24042

Paints used:

- Tamiya Spray: TS-47 Chrome Yellow
- Tamiya Acrylics: XF-1 Flat Black, X-18 Semi-Gloss Black, XF-16 Flat Aluminium, XF-56 Metallic Grey, XF-3 Flat Yellow, XF-2 Flat White, X-26 Clear Orange, X-23 Clear Blue, X-19 Smoke
- Tamiya Lacquers: LP-19 Gun Metal, LP-5 Semi-Gloss Black, LP-24 Semi-Gloss Clear
- Vallejo: Satin Black, Matte White, Metal Color Aero Chrome and Duralumin
- Molotow: Chrome ink

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
- Flocking powder: www.hiroboy.com
- MasterBox: www.creativemodels.co.uk

❖ LAST BITS

Final assembly is child's play, as long as you do not stress the body too much when you fit it to the chassis. The edges of the headlight covers were blackened with an indelible

felt-tipped pen to give the parts an apparent lesser thickness. The transparent coverings were not fitted until the model had been closed-up to avoid damaging them when handling the body

and chassis. The door handles were painted with the same mixture as the rims, and were also fitted at this stage. All these attachments of small parts were made wearing with latex gloves,

to minimize the risk of fingerprints. This 370Z looks great and temporarily closes Tamiya's 'Fairlady' series, before Nissan presents its replacement in the years to come. ●

To add some scale, the author used two Master Box figurines in injected plastic. Once assembled, they were primed in white and then airbrushed XF-59 Desert Yellow. They were then painted with artist's oil.



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TAMIYA, JAPAN

www.tamiya.com www.hobbyco.net

This set of micro-scissors is actually designed for the cutting-out of transparent polycarbonate MINI 4WD bodyshells but it'll definitely have its uses in scale modelling too, maybe for trimming plastic card or for shaping groundwork vegetation on dioramas. Having tested them on their own packaging material, we can confirm they are extremely sharp and make a very neat cut!

MINI 4WD CURVED SCISSORS FOR POLYCARBONATE BODIES (74151)



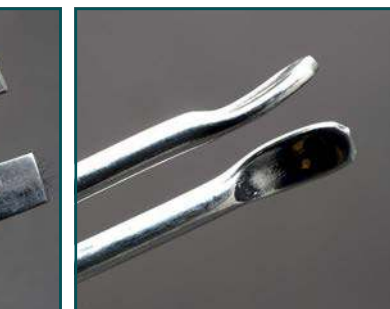
AK INTERACTIVE, SPAIN

www.ak-interactive.com www.creativemodels.co.uk

AK's stirrers are simple but effective at dredging up the most stubborn pigments from the bottom of the jar, and they have graduation scale at one end too, for making rough measurements of paint levels. 'USAF Asia Minor Scheme' is more commonly known as the 'South East Asia' scheme; this paint set provides the colours in the form of four 10ml jars of acrylic paint, ready to be thinned and airbrushed, ideal for Vietnam War-era aircraft.

STIRRING BARS AK8207

USAF ASIA MINOR SCHEME RCS066

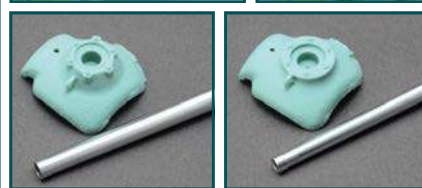


AMMO BY MIG, SPAIN

www.migimenez.com

This set of five, pre-thinned colour-washes provides a good starting point for anyone starting out on a voyage of weathering. We have three dark shades for the creation of mucky streaks, dirty tracks and a general overall film of dirt, plus a reddish rust colour, again for tracks and an earth-coloured fluid for the re-creation of dust and mud. An excellent pack for beginners, or just for replenishing one's supplies.

FIRST AID BASIC WASHES (A.MIG-7447)



DEF MODEL, KOREA

www.defmodel.com

Recently issued by DEF Model is a rather excellent 1:35 figure of a USMC female helicopter pilot that can be placed alongside a Super Cobra gunship or similar. The figure is cast flawlessly in pinkish resin with separate head and hands for the best detail rendering. Also new from DEF is a 'saukopfblende' mantlet for the StuG.III/IV vehicle, again cast beautifully in resin with fine detail. Other recent items include a seated USMC AH-1Z Viper pilot, USMC AH-1A FOD cover set, the male counterpart to the Super Cobra pilot, Korean War refugees and mantlet/barrel sets for Zvezda's SU-85M and SU-100 kits.

1:35

- USMC female helicopter pilot (DF35019)
- USMC male helicopter pilot (DF35018)
- German StuG.III ausf.G StuG.IV topfblende mantlet set (DM35086)
- USMC AH-1Z Viper pilot (DF35020)
- USMC AH-1A FOD cover set (DM35090)
- Soviet SU-85M TD barrel/mantlet set (DM35084) for Zvezda
- SU-100 TD barrel/mantlet set (DM35083) for Zvezda
- Korean War 1950 refugees (2) sister and brother (DF35021)

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LIVE RESIN, RUSSIA

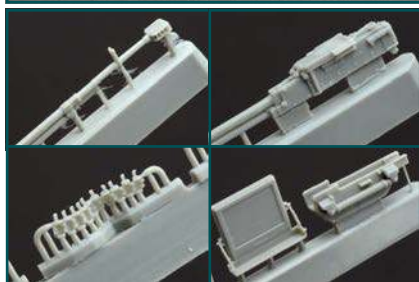
www.live-resin.com

If you have Zvezda or Meng's 1:35 kit of the Russian Tiger-M APC and fancy upgrading it, Live Resin – also from Russia – have a wide range of add-on parts for the kits, in resin. We were particularly impressed by the RCWS (remote controlled weapon station) for the SBRM recon vehicle with the fearsome 6P49 Kord 12.7mm heavy machine gun, which is fantastically well detailed and easy to assemble (shown left).

Other sets on release include:

1:35

- Tiger-M series 6P58 Kord 12.7mm HMG on 6U16 mount (LRE-35308)
- Tiger-M series Arbalet-DM RCWS with 6P49 Kord 12.7mm HMG (LRE-35301)
- Tiger-M series sagged tyre and wheel set, four sagged and one spare (LRE-35312)
- SOVA (owl) Russian acoustics anti-sniper system with universal mount for various vehicles (LRE-35311)
- Save-A-Gunner turret II modern type for all vehicles (LRE35316)
- Tiger-M series RCWS for the SBRM recon vehicle 6P49 Kord 12.7mm HMG (LRE-35307)



LIFECOLOR, ITALY

www.airbrushes.com

This newly issued pack of six 'new formula' acrylic paints from Italian paint-maker Lifecolor provides primer and camouflage shades frequently used on tanks, specifically WW2 German tanks. The pack states they have a high pigment density, which is ideal for those who like to hand-paint their models. In the pack we have panzer grey, red-brown, olive drab, tank interior white, burned base (?) and panzer yellow. The paints are easy to use and the set makes a good starting point for someone getting into building WW2 armour.

PRIMER NEW FORMULA, SUITABLE FOR BRUSH AND AIRBRUSH (PS01)



EDUARD, CZECH REPUBLIC

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

Eduard's new P-51D Mustang gets its first photo-etched goodies in the form of a cockpit interior and there's sure to be more to follow. If you want to refresh the cockpit of Tamiya's 1:48 F-14D Tomcat, Eduard have just the thing in the form of a pair of ejector seats, and the PE keeps building up for HK Models' 1:32 Lancaster B Mk.I.

1:350

- HMS Exeter railings (53240) for Trumpeter

1:48 BRASSIN

- Fw190A-8 fuselage guns (648462) for Eduard
- F-14D ejection seats (648471) for Tamiya

1:48 PHOTO-ETCH

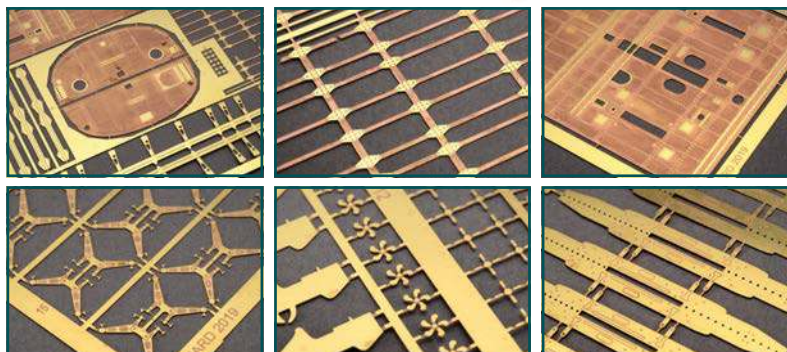
- P-51D-5 Interior (32950) for Eduard

1:35

- M10 IIC Achilles (36425) for Tamiya
- Panzerfaust 60 (635016)

1:32

- Lancaster B Mk.I bomb bay (32429) for HK Models
- Lancaster B Mk.I bomb racks (32432) for HK Models



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Mk III) D-Day PKROD300**

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PKROD333**

NEW



**O-2A Skymaster US Navy Service
PKROD632**

NEW



**WWI Type B Omnibus Old Bill
PKROD732**

NEW



**Holt 75 Artillery Tractor W/BL
8-inch Howitzer PKROD814**

NEW



**LVTH6A1 Fire Support Vehicle
W/105MM Howitzer PKAF35141**

NEW



QF-5E Rocaf Tiger II PKAFQ003

NEW



**QF-5E Rocaf Tiger II (x2)
PKAFQ503**

NEW



**QF-104G Rocaf Starfighter (x2)
PKAFQ504**

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REVELL, EUROPE DINGO 2 GE A2.3 PATSI

www.revell.de/en

SCALE: 1:35 • MATERIALS: IM, WS
ITEM NO.03284

The ATF (Allschutz-Transport-Fahrzeug: all-protected transport vehicle) Dingo is a heavily armoured German military 'MRAP' (Mine-Resistant Ambush-Protected) infantry mobility vehicle, based on the Mercedes Unimog chassis with a V-hull design. Revell launched their initial 1:35 kit of the ATF Dingo 2 GE A2 PatSi (03233) in 2013 followed by the Dingo 2 GE A3.3 PatSi (03242) in 2015. Now, we have the A2.3 version with remote-controlled gun station on the cabin roof. The first thing one notices with the latest iteration is the use of mid-grey polystyrene for the kit parts, a welcome relief from the dark green of older Revell military kits. This colour plastic is much more pleasant to work with and allows any flaws in construction to be seen prior to painting. Another benefit of the grey material is that it allows us to admire the detail Revell have incorporated in the model's parts; it's very nicely executed indeed, with fine replications of grilles, non-slip plates, boltheads etc., in evidence everywhere. The kit comes with semi-flexible vinyl tyres and they are well made, but for a much more convincing final result, DEF Model's weighted resin tyres/wheels (www.defmodel.com:DW35053) should be considered an essential purchase. **MN**



An excellent kit of an interesting modern military machine



Semi-flexible vinyl tyres are best replaced with the DEF Model set



ITALERI, ITALY

KANGAROO ARMOURD PERSONNEL CARRIER

www.hobbyco.net

SCALE: 1:35 • MATERIALS: IM, SVT, WS • ITEM NO.6551

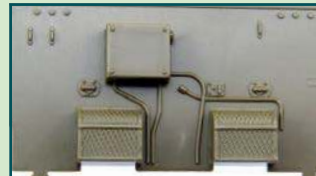
In the second half of WW2, the lack of an armoured personnel carrier began to be an issue for Commonwealth forces and the decision was taken to use redundant chassis from the M7 Priest for this role. Stripped of its gun and ammo stowage racks, the Priest had a large open interior which was an ideal protective 'pouch' for an infantry squad, and the Kangaroo was used to carry troops up to the front line, where they would dismount to fight. The Italeri kit dates from the mid 1990s and is re-released with no obvious changes other than the decals. A brilliant kit when first released, the Kangaroo is now showing its age in a few places, when compared to newer kits, but the mouldings are sharp and accurate and this makes up into a striking model. Assembly is straightforward and the vinyl tracks can be joined with superglue, for a speedy result. The decal options include 2nd Canadian Infantry Division and British 51st Division in Normandy, 1944, plus the British 78th Division in Italy, 1945. Additional items in the kit include three figures in US uniforms, a mortar, rifles and some stowage items. Some advanced modellers will notice the lack of some details, but most modellers will really enjoy the ease of assembly and the attractive end result. **CLS**



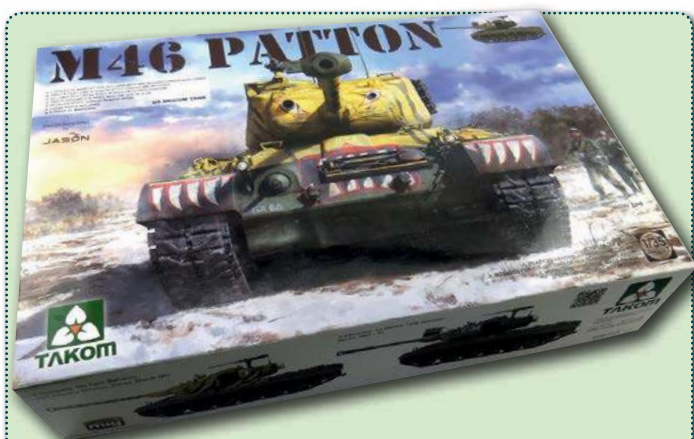
Very simple assembly for a great and accurate result.



Looking a little dated in some areas, though still a very good kit



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



TAKOM, CHINA M46 PATTON

www.pocketbond.co.uk

SCALE: 1:35 • MATERIALS: IM, WS • ITEM NO.2117

The M26 Pershing appeared at the end of WW2 and its shortcomings were addressed with successive rebuilds, until finally the 800 extensively modified tanks deserved a new name: the M46 'Patton' was born. Takom's kit is beautifully moulded, with some pin-marks mostly on internal areas and with very crisp details. The kit includes alternative T80E1 and T84E1 tracks, as link-and-length sections, with jigs to help form the tracks around to get the correct shape. This approach helps the modeller line up the tracks separately from the wheels, to aid painting, but the one-piece solid lower run of tracks does prevent the tank from being fitted to an uneven surface. The kit allows for building with or without the mantlet dust cover, although the majority of tanks had this fitted in place. No fewer than nine decal options are provided (three USMC, six for the Army), all of them striking and colourful, several with dramatic tiger faces or large unit badges. The M46 units went for shock and awe! Overall, the kit is most impressive, with high quality of detail on some very complex parts, such as the engine deck. No etched parts are provided because the kit does not need any addition – it is superb out of the box. **CLS**



Outstanding moulding and very fine detail throughout



The long lengths of straight track prevent articulation of the wheels



KINETIC GOLD, HONG KONG F-104G LUFTWAFFE STARFIGHTER

www.luckymodel.com

SCALE: 1:48

MATERIALS: IM, PE, WS

ITEM NO.K48083

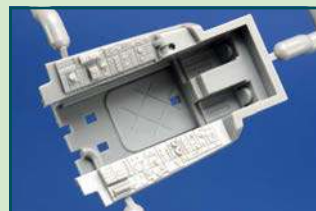
The Lockheed F-104 Starfighter must be one of the most iconic aircraft designs of all time, whichever variant you prefer. From the early USAF machines in overall bare metal (this author's favourite) to the later European air forces' camouflaged examples, it looks like it's going at Mach 2 even when sitting stationary on the ground. Numerous F-104 kits have come and gone over the years but Kinetic Model have just launched an all-new model of the 'G' in their 'Kinetic Gold' line and it looks magnificent in the box. No engine is provided (thankfully) so Kinetic have put maximum effort into the cockpit and airframe detailing and it has paid off. The detail incorporated in the cockpit tub and seats is impressive, so much so there's really no need for aftermarket extras: Kinetic even include a set of photo-etched brass seat harnesses. The instrument panel features raised bezels which will come to life with some careful painting, or even aftermarket dial decals. The undercarriage bays (main and nose) are very well appointed, building up form individual panels for the optimal rendering of detail on all surfaces. Markings are provided for three Starfighters, two in grey schemes and one in three-colour camouflage typical of this era. **MN**



Fantastic subject and tons of very crisp detail inside and out



Very little negative leaps out



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What's in the box?

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TAMIYA, JAPAN LEON CVSTOS AMG SUPER GT 2018 CHAMPION



www.hobbyco.net

SCALE: 1:24

MATERIALS: IM, SVT, CP, WNM, PCM, WS

ITEM NO.24350

The Mercedes-AMG GT3 was developed to GT3 class specifications and has a strong presence in that category worldwide, facing off against rivals from fellow big names such as Ferrari, Porsche, Lamborghini, Audi and more. The AMG GT production car is used as a base with an aluminium space frame, carbon-fibre body components, a large rear wing, rear diffuser, front spoiler plus other high-performance upgrades. Power is provided by a 6.3-litre V8 engine. In the Super GT 2018 season, the LEON CVSTOS AMG was raced in the GT300 class by K2 R&D LEON RACING. Tamiya's GT3 kit has been out for a while now, but this is only the second version to be released. The three-dimensional parts from the first kit remain the same – all beautifully detailed and flawlessly moulded – but of course there is a new decal sheet for the LEON CVSTOS team livery and they are satin in finish, quite in vogue right now. We would still recommend applying gloss black as a base colour, apply the decals then use a satin varnish to create the correct lustre. **MN**

-  One of Tamiya's most buildable kits of late with tons of detail and a superb new decal sheet
-  The modeller must source their own seat harnesses



MINIART, UKRAINE FLETTNER FL282 V-21 KOLIBRI



www.creativemodels.co.uk

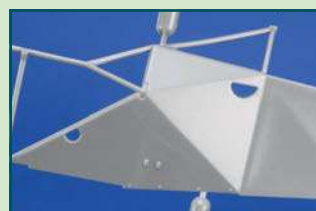
SCALE: 1:35

MATERIALS: IM, PE, WS

ITEM NO.41003

The Flettner FI 282 Kolibri Hummingbird was a single-seat, intermeshing rotor helicopter, produced by Anton Flettner of Germany in the 1940s. It had a 7.7 litre, seven-cylinder Siemens-Halske radial engine of 150-160hp mounted in the centre of the fuselage. Towards the end of World War II, most of the surviving FI 282s were stationed at Rangsdorf, in their role as artillery spotters, but gradually fell victim to Soviet fighters and anti-aircraft fire. MiniArt released their 1:35 kit of this wartime fascinating machine several months back and it created a lot of interest amongst both aviation and armour modellers alike. Importantly it is scaled to 1:35 which allows access to a vast array of figures and accessories, but will still look okay amidst a collection of 1:32 aircraft models. The model is fully detailed inside and out, with an intricate depiction of the radial engine, space-frame body and an amazingly thorough replication of the gearbox and rotorheads. You will need some good magnifiers, accurate tweezers and a good dollop of patience to bring the best from this model, but it's beautifully executed and will look fantastic once complete. **MN**

-  Fascinating subject, heaps of internal and external detail, very delicate airframe parts
-  Perhaps not for the beginner due to its delicate structures and many small parts



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www.panzerwrecks.com

01435 865301



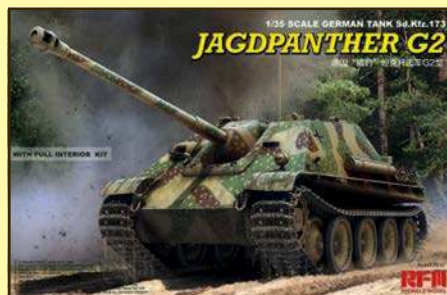
OUT NOW
£59.99

This is the most complete study of the role of Panzers in the Battle of Berlin yet published. At 392-pages, the book is lavishly illustrated with 360 mostly unpublished photographs that take the reader from the retreat at Seelow to collecting wrecks from central Berlin. In addition to informative text and hundreds of photos, many pages include a QR code – just point your smartphone camera at the code to show the scene today in Google Street View, while a separate map shows Berlin as it was in 1945 and plots the locations of the wrecks. To complete the coverage, acclaimed military artist Felipe Rodna has created sixteen pages of exquisite specially-commissioned artwork.

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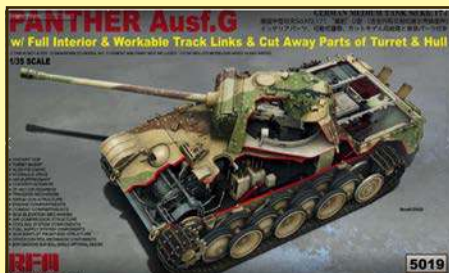
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SUPERSONIC STINGER

Jarek Rydzyński builds Hasegawa's still-excellent F/A-18F Super Hornet from 2005 and adds a small mountain of Aires resin up-grades and Eduard photo-etched parts



I have been a fan of American fighters for a long time and especially on-board carrier aircraft. These models are an engaging topic for modellers because they have very interesting patterns of weathering, so I decided to build an F/A-18 Super Hornet in Australian markings, with a kangaroo in the insignia. I chose the Hasegawa F/A-18F Super Hornet (PT38) in 1:48 scale from 2005. The kit comprises six sprues with very nicely detailed parts, as well as a set very clear transparent canopy parts and a good quality decal sheet.

The kit was upgraded with resin air intakes from Rhino models, Eduard photo-etched parts (BIG ED, interior and exterior), resin cockpit (tub, instrument panels, pilots' seats) main and front undercarriage bays and engine nozzles, all from Aires. In addition, I used metal undercarriage legs from Scale Aircraft Conversions.

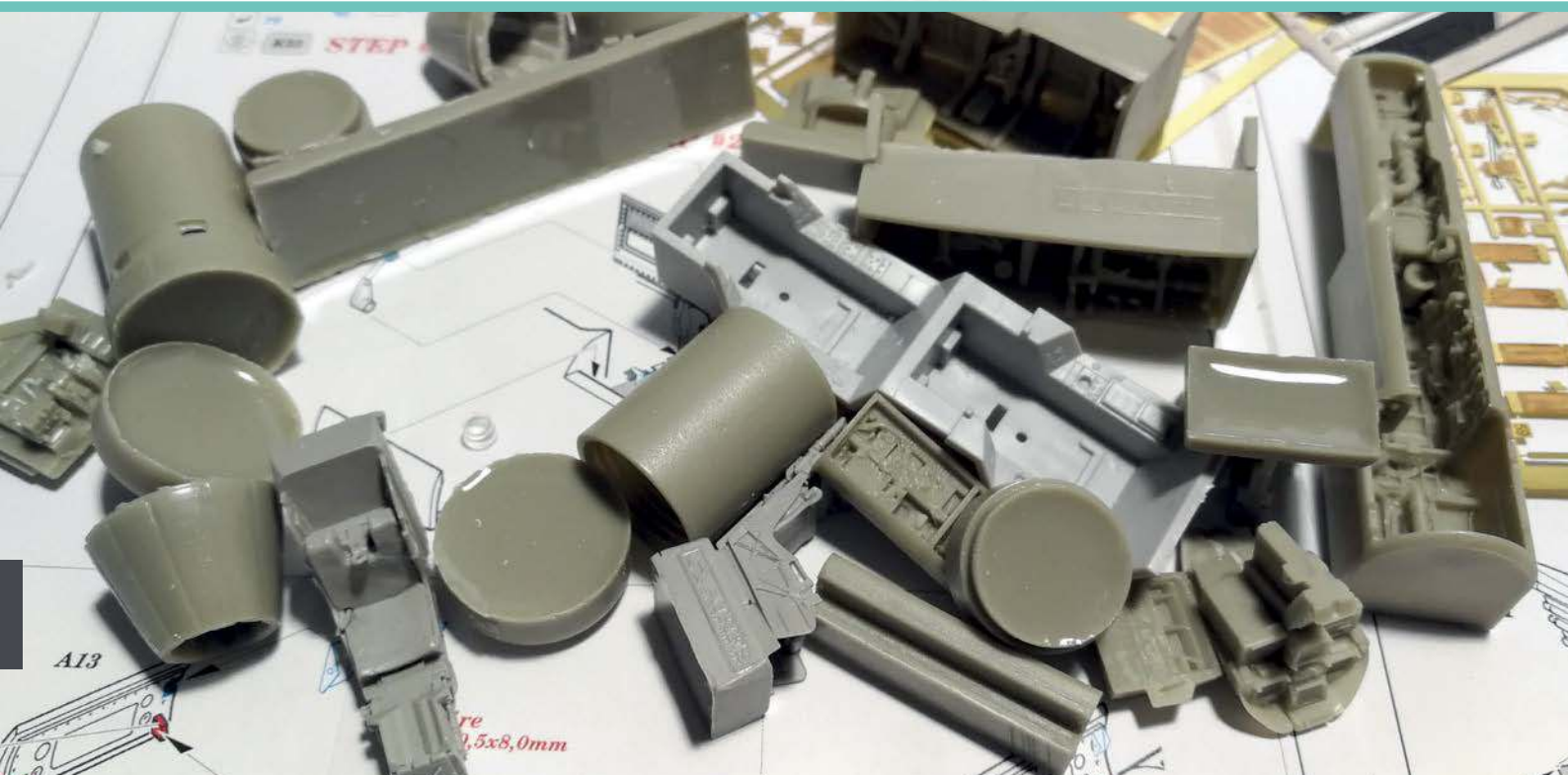
As a supplement, I used a resin weapon set from Eduard's Brassin range. The Royal Australian Air Force decals are a Novascale product. The quality of the parts from the Hasegawa kit and the fitting of the elements was very good.

FITTING THE RESIN

I started building the model by fitting the resin wheel bays and cockpit from Aires. It was very difficult and tricky work because initially, with the front wheel bay installed, there was no space to fit the cockpit tub into the tight fuselage. But I cut, sanded and adjusted and finally, after several hours the cockpit was in and ready for painting. I painted the cockpit as standard: Bilmodel resin primer then Tamiya black as pre-shading, then the main colour which comprised Mr Color 307 with highlights 307 and Tamiya White. All buttons, screens and seats of pilots were painted with Italeri acrylic paints.

The next stage was the assembly of one-piece resin air inlets. They fit better than the cockpit but did required the use of a large amount of putty. They are made of matt white resin so I decided not to paint them inside. After closing up the fuselage and gluing the remaining parts, I decided to work on the surface of the model. I corrected all the panels lines and drew new ones that had disappeared under the putty. This work was done using a Tamiya scribe tool, several different stylus, needles, modelling saws and templates with the shapes of inspection hatches. The same was true for riveting. Each rivet was deepened manually by punching them in with a stylus. This work took a long time! ▶

The full complement of resin parts used in this project, ready for trimming and fitting



FULL-BUILD: MODERN MILITARY AVIATION

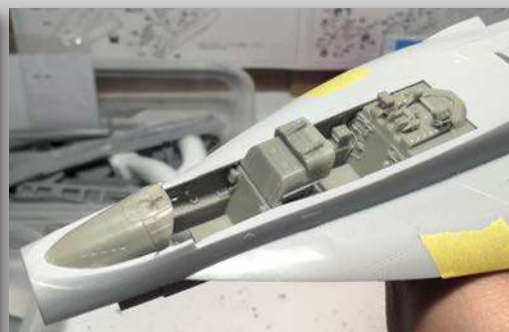
HASEGAWA 1:48 F/A-18F SUPER HORNET ● KIT NO.PT38



Comparing the details: Hasegawa front wheel bay versus Aires resin, in the foreground. The difference is clear to see



Using a motor-tool with a grinding disc, the fuselage inner walls were thinned, for the resin parts to fit. Always wear a mask and eye protection when doing this



All that work results in a perfect-fitting Aires resin cockpit and it looks superb. Time for paint!



Testing the fit of Rhino Models' seamless resin engine air inlets



Large gaps are visible where the inlets meet the fuselage and they require filling



Filling and sanding delivers a seamless result. It's a hard and long process of fitting air inlets and other additions

PAINTING

Just like the cockpit, I started the airframe camouflage by painting all surfaces and parts with Mr Surfacer 1200, which is ideal for filling microscopic scratches created during the assembly process. After twenty-four hours, I sanded all the elements with Tamiya 2000/1000-grit Sanding Sponges. This way I obtained a perfectly smooth surface.

I then began the pre-shading process which I created using Tamiya XF-1 Flat Black. To get different effects of discolouration on the final surface of the model, I once again used the 'texture layer' painting technique. This is a 'map' of tiny, irregular and random spots of white and black paint applied with a sponge on the main colour of the

model which in the final painting phase gives amazing weathering effects.

TOP COLOUR

The next step was to reduce the intensity of the texture layer by painting the model with the correct colour (Mr Color C307, FS26320 Semi-Gloss Gray), airbrushing the paint with very thin layers of diluted paint, being careful not to completely cover the previous shading and texturing effects. Then, to give realism, I applied some faded colours, lightening the primary shades with small amounts of Tamiya XF-2 Flat White. Looking at reference photos, I also simulated some 'touch-ups'. The undercarriage bays and legs were painted Tamiya X-2 White (gloss). The

next step was to apply the anti-slip strips (Tamiya XF-85 Rubber Black), leading edges on the wings (AK Interactive Xtreme Metal Polished Aluminium) and formation lights (Tamiya yellow and black).

The next step of the project was a layer of Mr Hobby GX100 Super Clear III varnish and once dry, I could then start the decal application step. I used Novascale decals which are printed on an ultra thin protective film, Ideal! For the stencils I used the sheet from the Hasegawa kit. After the decals had dried, I protected the whole model with Mr Color Clear varnish.

On the engine nozzles I used the AK's Xtreme Metal paints; Aluminium, Titanium, Pale Metal, Burnt Metal and Exhaust. ●

Mini Review...

USCHI VAN DER ROSTEN MULTI-SCALE CARPET DECALS (1031)

www.uschivdr.com

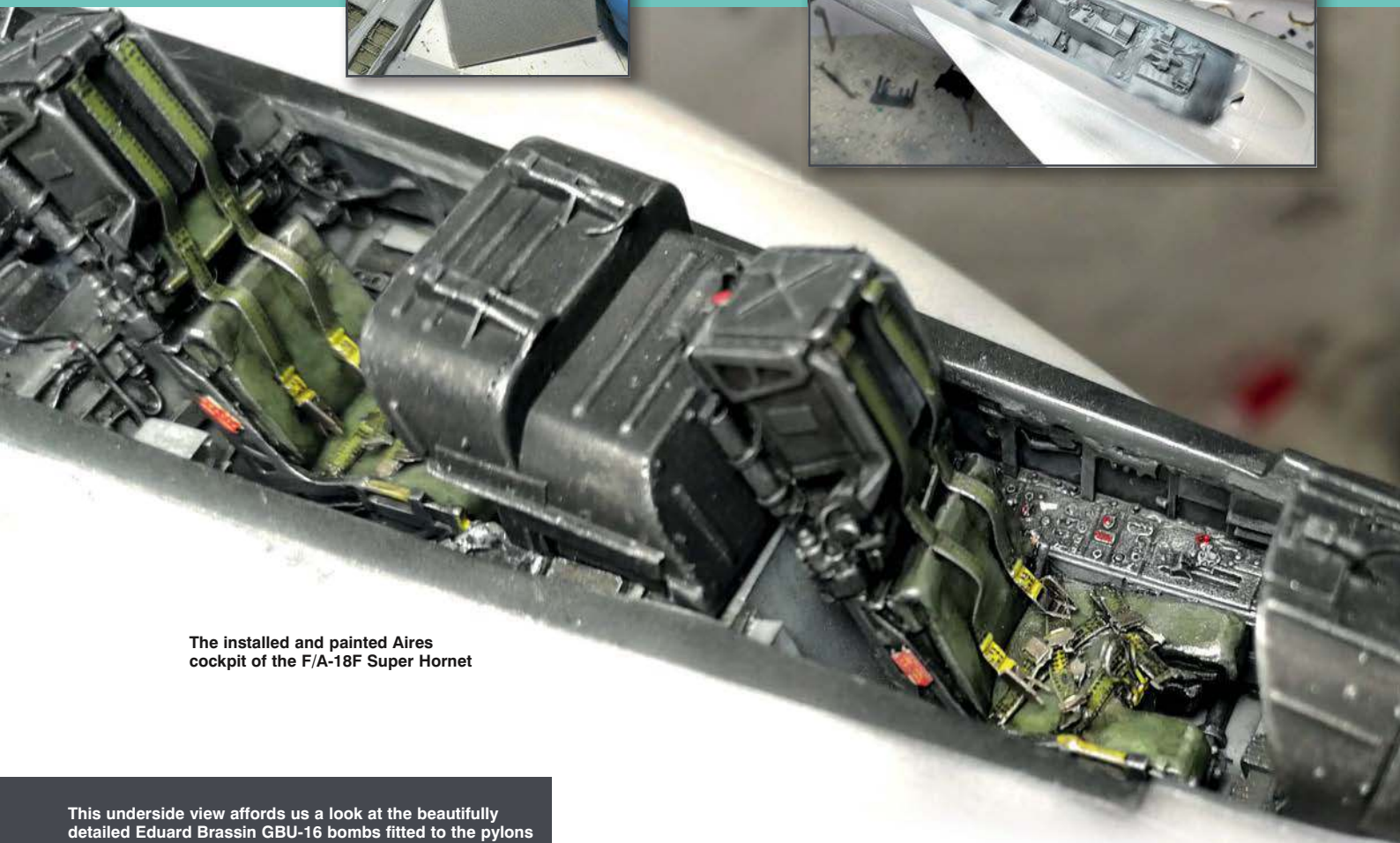
If you are a diorama builder you will appreciate this innovative product from Uschi Van Der Rosten. It comprises two decal sheets carrying eight highly detail carpets in various shapes, sizes and patterns, plus - and here's the magic element - two sheets of thin aluminium foil onto which one applies the trimmed-out carpets to add thickness and 'wrinkleability'. It's probably an idea to prime the metal first so the decals stick properly, then they can be placed in a building within a diorama for a very convincing effect.



Tamiya's Sanding Sponge Sheets (here, very coarse 320-grit) are indispensable helpers for every model maker!



The painted and shaded cockpit, ready for painting buttons, details etc



The installed and painted Aires cockpit of the F/A-18F Super Hornet

This underside view affords us a look at the beautifully detailed Eduard Brassin GBU-16 bombs fitted to the pylons



COLOUR WASHES

I really like playing with colours, that's why at this stage I mixed these shades myself using Tamiya Enamel paints. I used three main colours; Black, Royal Blue and Flat White. I obtained a very nice grey-blue colour-wash in varying shades. The bottom of the model was given a grey-blue 'wash' and the top was treated with grey and dark grey, plus grey-blue. For the undercarriage bays and legs I used Tamiya Panel Line Accent Color Gray and Black. I then sealed everything with Mr Color matt varnish. Weathering: I am not a fan of very dirty aeroplanes, I prefer subtle weathering. I applied some streaks and dirt with AK Interactive's Dark Streaking Grime, Engine Oil and Track Wash. Finally, I made colour separations using oil paints for artists. Assess the end results yourself! ●

TECHSPEC...

HASEGAWA 1:48 F/A-18E HORNET KIT NO.PT38

Materials;

Injection-moulded polystyrene, waterslide decals

Paints used:

- Mr Color: H308 FS36375 Semi-Gloss Grey, H305 FS36118 Semi-Gloss Grey, H77 Tire Black
- AK Interactive: Xtreme Metal Black Base (AK471), Steel (AK476), White Aluminium (AK478), Dark Aluminium (AK480), Gun Metal (AK483), Pale Burnt Metal (AK485)

Extras used:

- Aires: F/A-18F Super Hornet detail set for Hasegawa (4640)
- Eduard Brassin: GBU-16 Guided Bomb Set (648236)
- Eduard: F/A-18F Hasegawa (BIG4858)
- Rhino Modelworks: F/A-18E/F/G Seamless Intakes for Hasegawa F/A-18 Super Hornet (RM48010)
- Novascale: RAAF F/A-18F Super Hornet decals

Availability;

- Hasegawa models are widely available from good model shops and online
- Eduard models and accessories are available from good model shops and online: www.creativemodels.co.uk
- Aires: www.aires.cz
- Mr Color products are available from good model shops and online. UK import and distribution by Albion Hobbies: www.albionhobbies.com
- AK Interactive materials are available from good model shops and online: www.creativemodels.co.uk
- For Rhino Modelworks and Novascale, try internet auction sites



The author's subtle range of greys adds a weathered appearance without looking 'over the top'

The Hornet – both regular and super – has distinctive and business-like outline and looks great in model-form



Build a legend

Item 1714/01

1:32

Length 73 cm.
Height 13 cm.
Width 8,5 cm.



CIWL ORIENT EXPRESS OF 1929
SLEEPING CAR N°3533 LX

Made in Italy by Amati - amatimodel.com



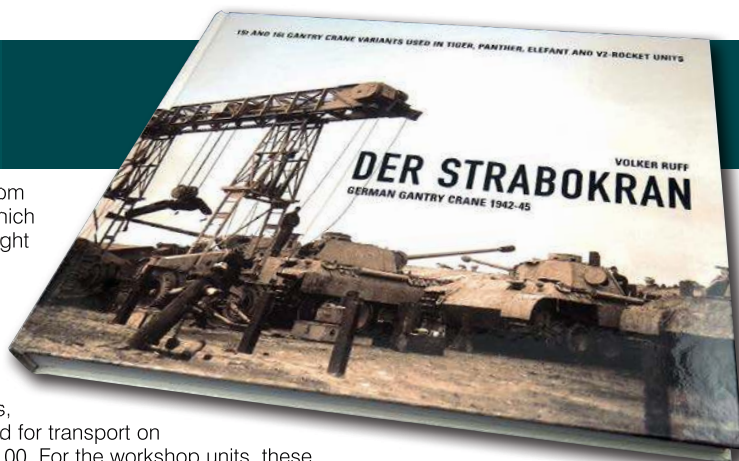
Book Reviews

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?

DER STRABOKRAN

Volker Ruff (2011), from Panzerwrecks
ISBN: 978-3-00-034002-4
www.panzerwrecks.com

With the arrival of 1:35 kits of the Strabokran last year, from Takom and from Amusing Hobby, it is worthwhile to have a review of this excellent book which appeared back in 2011, and which may be unfamiliar to anyone who bought the new kits. The Strabokran, Strassen-bock-kran, or road gantry crane, was also called the Frieskran, after the manufacturer JS Fries. It was built in several types, and this book looks at the 15 and 16 ton versions, this being the lifting capacity. The cranes took the form of an overhead gantry from which the lifting tackle was suspended and this crane was an essential part of the equipment of Tiger I and II, Panther, Elefant and V2 rocket units. The crane was essential for jobs such as removing turrets, lifting guns and engines, and raising the V2. The crane could be collapsed for transport on its wheels, and was typically pulled by a heavy halftrack or Hanomag SS100. For the workshop units, these cranes were an essential part of their equipment, and the combat loss of their crane was a major disaster for the mechanics. The book is a masterpiece by Volker Ruff, who has gathered an incredible amount of detail about the cranes, and has assembled it into a format that anyone can understand. In particular, after explaining the development of the Strabokran, the cranes are then described and copiously illustrated in use with each of the five tank types and the V2. The first half of the 250 page book is full of photographs and explanations, with the second half of the book being mainly detail photographs and a mass of superb scale drawings in 1:35 scale. Every configuration and variation of the cranes is shown in accurate multi-view drawings. For anyone interested in these cranes, or who is making one of the new kits, this book is an absolute goldmine of information. There is no comparable source, and this book is quite unique. Personally, I would absolutely recommend this book as a resource for modelling and as an interesting read. **CLS**

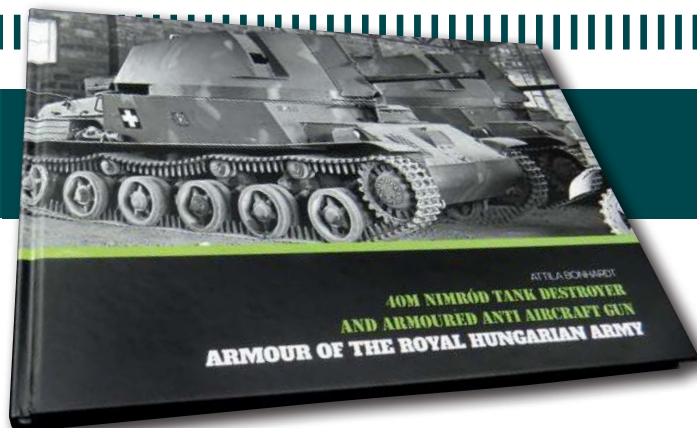


40M NIMRÓD TANK DESTROYER AND ARMoured ANTI-AIRCRAFT GUN

Attila Bonhardt, PeKo Publishing Kft.
ISBN: 978-615-5583-14-8
www.pekobooks.com via www.panzerwrecks.com

The Hungarian nation produced a number of military vehicles of their own design, and others based originally on foreign types. The Nimród was based on a Swedish design, related to the Toldi tank already in use with Hungarian forces. The Nimród mounted a 40mm Bofors gun in an open-topped turret, and was designated a Tank Destroyer as well as an anti-aircraft platform. In reality, the battlefield was very dangerous for Nimróds in a battle against tanks, and they were used primarily against aircraft and lightly armoured vehicles. Some 46 Nimróds were built in the first batch, and 89 in the second, making this a significant AFV.

This book from Panzerwrecks is in A4 landscape format, and has 120 pages. After fifteen pages of detailed description of the vehicle and its use, the remainder of the book consists of large full-page photographs with detailed captions. Aside from a couple of pictures of a surviving Nimród, the remainder of the shots were taken during WW2 and show the vehicle on parades or in action on the Russian Front. The photos are a super resource on this unusual weapon, with plenty of details to add to a model, and plenty of diorama ideas. With the Nimród now available in plastic, this book should be a tremendous help for modellers, as well as a great read for anyone interested in military hardware. **CLS**



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How to Build...

TAMIYA'S 1:48 SUPERMARINE SPITFIRE MK.I

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

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

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

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

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LIGHTNING STRIKES: PART 2

Work continues on Tamiya's all-new
1:48 P-38 Lightning



HYBRID HIJINKS

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...AND MUCH MORE, OF COURSE!

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

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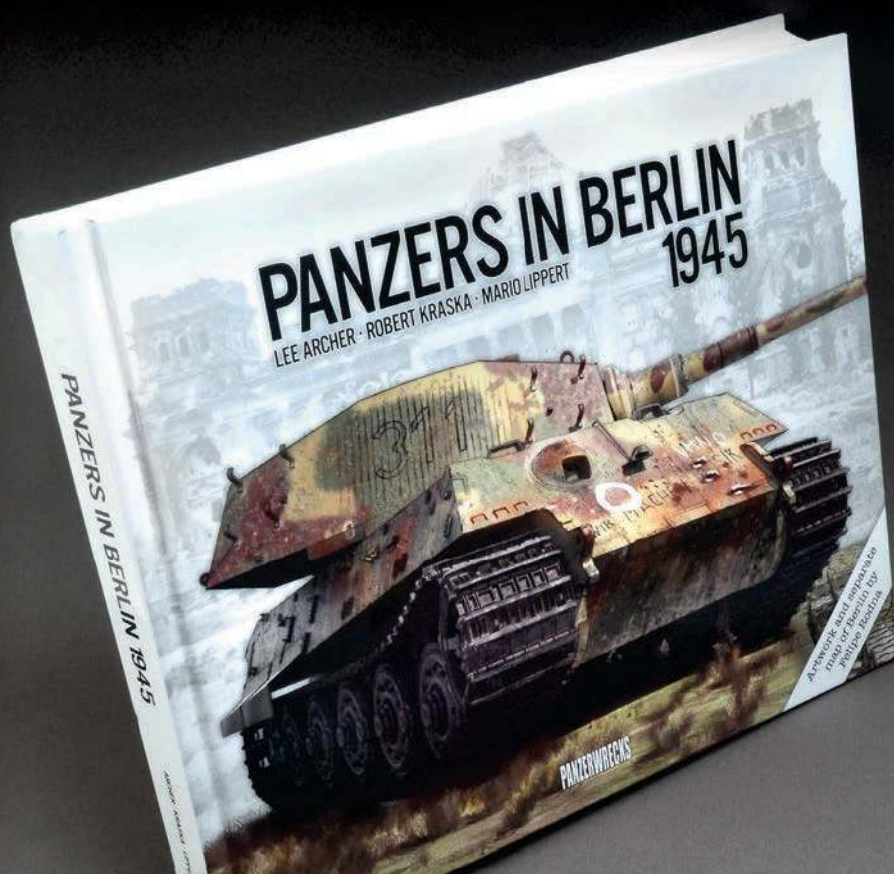
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The Editor's Page...

This extraordinary new book on the end of WW2 in Berlin is worth every penny

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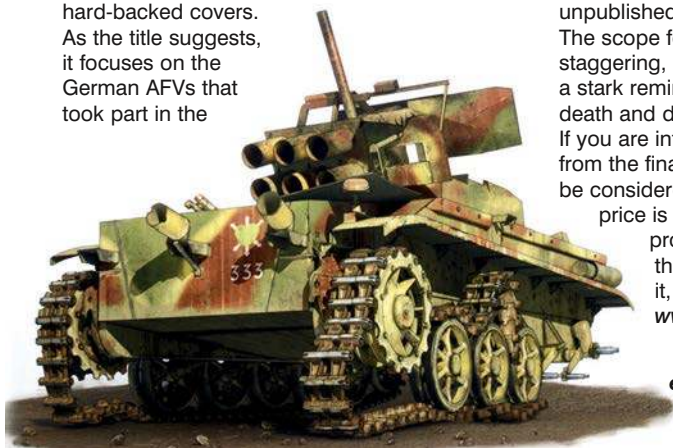


DER ENDKAMPF

I don't usually feature books on this page, but this one is so impressive I really wanted to talk about it a little. 'Panzers in Berlin 1945' is a newly arrived volume from Panzerwrecks and it's a hefty tome of 392+ pages in hard-backed covers. As the title suggests, it focuses on the German AFVs that took part in the

brutal battle for Berlin during the death-throws of the Second World War in Europe: the photographs it provides are quite extraordinary. One or two images may look familiar but the overwhelming majority are previously unpublished and are new (to me at least). The scope for modelling inspiration is staggering, but there's a lot of images that offer a stark reminder of this bloody campaign of death and destruction: not for the squeamish. If you are interested in compelling imagery from the final stages of WW2, this book should be considered an essential purchase. The price is £60, but considering the quality of production, the fascinating images and the sheer amount of research put into it, I consider that very good value. www.panzerwrecks.com ●

See you again next time
editor@tamiyamodelmagazine.com



EDITOR'S CHOICE

TAMIYA LACQUER PAINT LP-1

"But it's just black paint" I hear you say. Well, yes, it is, but as black paints go, this one is a keeper. Tamiya's recently launched Lacquer Paint range is really proving popular with modellers world-wide and I am a convert too: their ease of use, very quick drying and sheer toughness once cured makes an extremely convincing argument. LP-1 Black (gloss) might not seem like a 'primer' colour but I have been using it as such, because it dries with a very smooth finish (no grain that matt paints can sometimes have), provides instant 'shading' under top colours and pretty much any regular model paint can be applied over it in matter of hours. So, LP-1 is my new best friend!

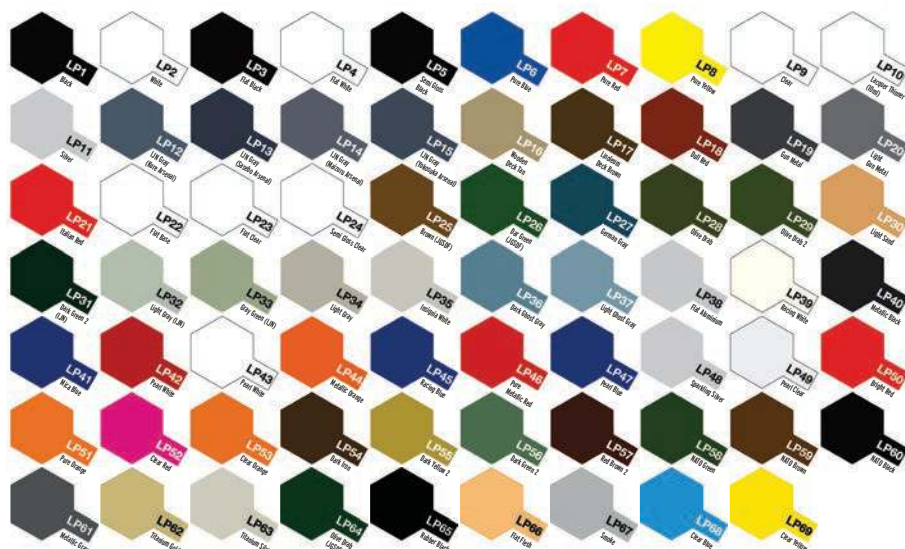
Tamiya models, accessories, paints and materials are widely available from good model shops and online. UK import and distribution by The Hobby Company; www.hobbyco.net



69 AUTHENTIC COLOURS DESIGNED FOR MODELLING EXCELLENCE

The Tamiya Colour range of quality paints - designed specifically for modelling use has long helped modellers achieve the perfect finish on their scale masterpieces. Now, existing Tamiya Colour bottled acrylic, plus lacquer spray paints are joined by the new Lacquer Paint line of bottled Tamiya Colours. Use them as your needs require: airbrush large areas, or pick out fine details. With a tough membrane and swift overall drying times - but slow initial drying to allow a beautiful unblemished finish. We are sure they will become an essential item in your modelling armoury.

- No need for primer: gloss and matt colours can be applied directly to model kit plastic
- Quick drying time
- Fabulous when airbrushed, and can also be applied by paint brush to detail areas
- Can be used in a similar way to Tamiya's X and XF line of acrylics
- Weathering colour washes and dry brushing can be applied over the dried Lacquer Paint
- Once dry, can be safely over-painted with acrylics, enamels and other model paints
- Lacquer Thinner Retarder Type (87194) slows initial 'flash off' time, allowing paint droplets to merge on the surface of the model for a smoother finish
- Robust final finish that adheres strongly to the model's polystyrene surface
- Constantly expanding range of colours for military & civilian subjects
- Ultra-high Tamiya quality



Beautiful colours with superior gloss

The stunning tones and lustrous glossy finish provided by airbrushing Tamiya Colour Lacquer Paint are perfect for model car and motorcycle paint jobs, and it's tough membrane is perfectly suited to treatment with polishing compounds. Colours previously only available as sprays - Pearl blue, Mica red, Pure orange and more, are now in bottled form removing the need for decanting when you want to airbrush.



Great for airbrushing

Tamiya Colour Lacquer Paint's true, consistent tones make it perfect for airbrushing large areas. Mix 1 part Lacquer Paint with 1-2 parts dedicated thinner, and make 2-3 passes over the subject with your airbrush. Pick out the details with Tamiya Colour mini acrylic paints: Lacquer Paints provide a durable base coat that remains undamaged even by enamel topcoats.



Efficiency is the name of the game

Tamiya Colour Lacquer Paint dries quickly: most colours are safe to touch after an hour and can be masked on top of 24 hours later, saving valuable time in the production of your masterpiece. Again, as Lacquer Paints provide a durable base coat that remains undamaged by enamel counterparts, there is less worry during paint jobs that require multiple layers of paint.



No worries when weathering

Tamiya Colour Lacquer Paint's resistance to enamel paints is a big advantage in the weathering process too, as enamel paints are most commonly used for the application of washes and depiction of dirt, grime and oil, in particular on military model subjects. Just apply a Lacquer Paint base coat and get to work weathering!

ITEM 87198 - PAINT RETARDER

This paint retarder is dedicated to the Tamiya line of lacquer paints. Retarder slows drying of paints for beautiful finishes and limits blushing in humid conditions. By slowing the drying of the paint it lessens the likelihood of brush marks remaining and blemishing your surface coat.



ITEM 87194 - LACQUER THINNER RETARDER TYPE

This new product not only thins lacquer paints for airbrushing, it also includes retardant to slow the drying of the thinned paint, particularly useful in covering up any overspray and getting a glossy finish.



ITEM 87077 - LACQUER THINNER

This thinner has a variety of uses in addition to the thinning of lacquer-based paints. It is also useful when cleaning painting tools and airbrushes, removing unwanted paint or excess putty, and even thinning liquid surface primers.



1/16 SCALE RADIO CONTROL TANK
U.S. AIRBORNE TANK M551
SHERIDAN

**1/16
SCALE**

R/C model assembly kit
Length: 408mm, width: 177mm,
height: 186mm (includes gun shield)



Airborne Armor

1/16 R/C Tank Series U.S. Airborne Tank M551 Sheridan (Item 56043) Full-Option Kit

A TRULY IMMERSIVE EXPERIENCE

The lightweight M551 Sheridan was designed as an airliftable tank, a cutting-edge design with aluminum alloy hull and powerful 152mm gun/launcher. Work began on it in 1959, and it remained in service with combat units until 1996. It is the subject of this super-realistic R/C model, with the powerful form captured in style and a whole range of coordinated sounds and motion for awe-inspiring realism.

- Realistic aluminum 152mm gun/launcher barrel with LED providing muzzle flash.
- Gun is automatically raised to avoid hitting hull rear when rotating.
- 60mm bass reflex speaker with duct gives the model deep, rich sound.
- Pre-assembled resin tracks have soft pads for a truly authentic finish.
- Metal chassis, suspension arms, drive sprockets and more mean this is a durable model.
- Compatible with the separately sold Tamiya Battle System.

A Coaxial machine gun features light and sound. Gun recoil and vehicle kickback are also recreated. **B** Full turret rotation and gun elevation from -5 to +15 degrees. **C** Commander figure is for placement at the M2 machine gun.



D Different combinations of stick motion allow a range of turn radii including pivots. **E** Rear mounted gearboxes with type 380 motors give reliable power at all speed ranges. **F** DMD T-11 control unit has an LCD display for easy setup changes. **G** Requires separately sold 4-channel transmitter, battery pack and charger.

AN INTERNATIONAL LINE-UP OF 1/16 SCALE R/C TANKS AWAITS



German Panther Type G
Full-Option Kit (Item 56022)

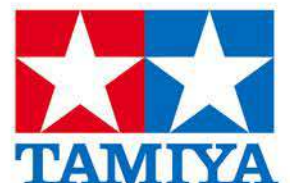


Russian Heavy Tank JS-2 Model 1944
Full-Option Kit (Item 56035)



U.S. Main Battle Tank M1A2 Abrams
Full-Option Kit (Item 56041)

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



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