

AFV 122

JAN/FEB 2022 · £6.95 UK \$16.99
www.afvmodeller.com

modeller



HIGH FIVE

JOHN MURPHY'S BIG-SCALE M5A1

NEW SET!

Italian WWII Regio Esercito Camo Colors

A selection of tones used by the Italian Army on tanks, artillery and vehicles



Figure painted by Chema Calvete



8 Model Air references to paint **combat vehicles**, trucks, artillery pieces and **camouflage schemes** operational during WWII by the **Regio Esercito**. Backed up by extensive **research** on **photographs** and armored vehicles from de **Saumur Museum**.

Full speed with Vallejo!



Follow us on:
[/vallejocolors](https://www.vallejocolors.com)

www.acrylicosvallejo.com



CONTENTS



- 2 High Five**
Classy Hobby's 1:16 M5A1 Stuart modelled by John Murphy.
- 10 Up-Cycle**
Zack Sex presents his 1:35 T34T from the Lebanese Civil War.
- 18 sWS**
Lukasz orczy-Musialek's 1:35 War's end warrior vignette.
- 28 Operation Epsom**
Jerry Rutman continues his story of the Normandy campaign in miniature.
- 32 Super sized Stug III**
We take a quick initial look at the new Das Werk 1:16 Stug III.
- 36 Panzerkampfwagen IV Part 40**
The Editor continues detailing Trumpeter's 1:16 kit.
- 44 Orphaned to Exile**
Bernard Bassous continues to explore creative diorama presentation.
- 58 Double Barrel**
We couldn't resist the new Mk.38 Naval Gun Mount in 1:35 from Pig Model.

SEASONAL GOOD WISHES FROM EVERYONE AT AFV MODELLER

AFV Modeller is published Bimonthly by
AFV Modeller Ltd
Old Stables
East Moor
Stannington
Northumberland
NE61 6ES
Tel: 01670 823648
Fax: 01670 820274

Editor and Designer: David Parker
email: david@afvmodeller.com
Deputy Editor and Designer: Mark Neville
email: mark@afvmodeller.com
Sales Director: Keith Smith
email: keith@afvmodeller.com

ISSN 2059-4305

New Year, New Look

You may have spotted the change on our cover this issue as we have reached the end of our sponsorship arrangement with Meng Models. We will of course continue to work with our friends at Meng in a more informal way.



'Like' us to follow what's new and follow our build projects.

AFV Modeller welcomes contributions from interested parties, but cannot accept any responsibility for unsolicited material. The contents of this publication including all articles, drawings and photographs originated by AFV Modeller Ltd become the publishers copyright under copyright law. Reproduction in any form requires the written consent of the publisher. Whilst every care is taken to avoid mistakes AFV Modeller Ltd. cannot be liable in any way for errors or omissions.



1:16



HIGH FIVE

I've always liked the idea of building something in 1:16 scale, but they've either been just too large or just not my cup of tea. That's until Classy Hobby announced they were releasing the M5A1 (late) in this scale. For me this was perfect, it's not too big and it's olive drab!

I must say, for what you get in the box, it's great value and builds into a really nice model.

But as always there is room for some improvement, but these are very minor and are really just a case of adding missing texture, weld seams and foundry marks, all of which are quick fixes.

Having said it's not too big, when compared to my usual 1:35 builds it was still a daunting task, especially when it came to the painting and weathering. I found the best way to tackle it, was to treat each component or section as a model in its one right, even down to items such as the individual tools, hatches and grousers mounted on the turret sides.

This was a project I thoroughly enjoyed and I'd gladly do another vehicle in this scale. Please Classy Hobby, bring out an M4.

**JOHN 'SPUD' MURPHY
GOES LARGE WITH THE
CLASSY HOBBY M5A1**



the turret hatches handles were fashioned from thin brass rod and plastics rod discs, which formed the attachment welds.



Here we can see the missing cast texture and foundry numbers added, along with the locking pins and retaining chains for the filler caps.



The missing weld seams were created by using 0.20" styrene rod attached and softened with Mr. Cement SP and the weld effect pressed into the softened styrene rod using a micro chisel.



The centrally located ventilator housing also needed it's missing foundry marks adding.
The underside of the front fenders, we're improved by adding the missing angle iron supports.

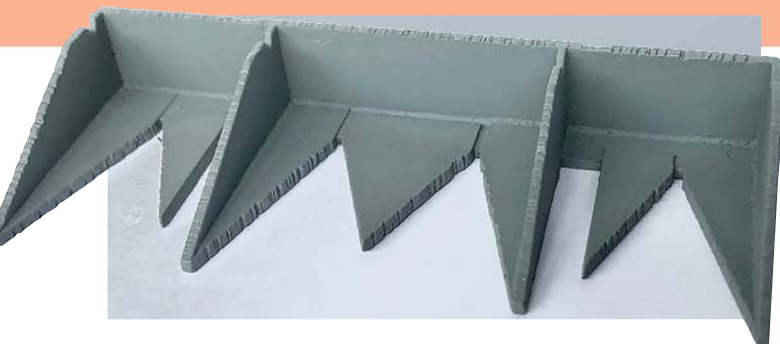


Once the missing details had been added, the area was then primed and checked to make sure it all looked natural.



one of the problems with 1:16 scale is the lack of stowage and accessories readily available. A quick internet search highlighted Sol Models, who do produce some very nice accessories in this scale. They are beautifully sculpted and flawlessly cast, perfect for helping to create that 'lived-in' look, common to all WWII U.S. vehicles.
All that was needed to add, were the straps to attach them to the turret sides. These and the sandbags on the glacis were created using Green Stuff two-part epoxy putty.





Included in the kit is a Cullin's hedgerow cutter. Again, this part needed a little extra work, this included adding the missing welds and most importantly the rough flame-cut edges.

Here we can see the cutter has been added to the hull and the attachment points improved over what is supplied in the kit. In reality as it's reproduced in the kit, it would break off as soon as it made contact with a hedge!

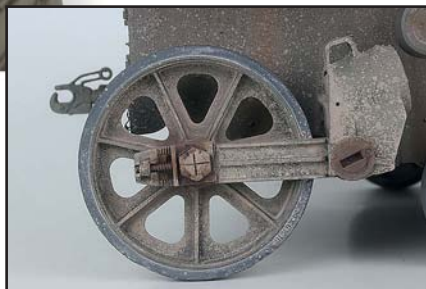
Getting the correct shade of Olive Drab, isn't as straightforward as it would first seem. These are the colours used to get the worn out, grimy look I wanted. All the colours are from the Mr Hobby range and we're thinned with Mr. Hobby Self Levelling thinners.



The turret basket floor floor would naturally get heavily weathered from the crew wearing muddy boots etc. The 37mm empty cases are actually 1:35 75mm cases, which when scaled up was close enough to represent 37mm when viewed through the hatches.



The turret interior is well detailed and includes all the major components. Including the M6 Gun and M44 Mount, along with the coax M1919 machine gun. The rear of the turret is taken up with the large SCR-508 radio set, which has been accurately replicated and looks great in place.



The rear idler wheel assembly, has been weathered with Thick Soil from Ammo, this was also used for the speckling effect. Lifecolor Dark Brown was heavily thinned and airbrushed on the replicate the grease effects. The same effects and products were used to weather the suspension units and drive sprockets, including the wheel-bearing grease nipple locations.



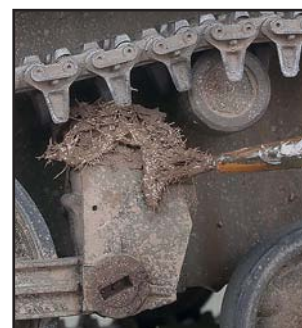
The turret roof and hatch interior's are all well detailed, I opted to leave off the wire-frame periscope guards, as many of the reference photos I had, shown them



Here are the products used to create the think mud that's accumulated along the tops of the suspension units.



once the sea grass had been chopped into tiny lengths, it was mixed into the other products to create an instant wed mud.



The idea was to place onto the tops of the bogies to simulate were the mud falls from the track and collects around the return skids.

The tracks are designed to work after assembly. Although time-consuming to assemble, they do look superb once finished and are beautifully detailed. These were base-coated in Mr. Metal Steel and then buffed to a polished finished with a soft cloth. The basic Earth colour was washed into the tracks, followed by speckling more of this colour and various other tones. The final shine to the cleats was added using graphite pigments.





Thanks to the design of the kit, the lower hull running gear was fully painted and weathered before fitting the upper hull. Note the scratch built fire bottle. This was added, as there is no detail in the hull and on the real vehicle this bottle is visible to the rear of the turret basket.

With the tracks installed, the upper hull was then glued in place. As can be seen in the photo a subtle modulation effect has been added to the hull sides, along with some initial airbrush applied streaking effects.



in this scale you can really go to town on items such as the pioneer equipment, spare track-links and track tensioning tools.



With the hull complete, the next challenge was to match the weathering style of the upper hull with that of the lower portion. I wanted to make it look realistic, but without obliterating all of the subtle paint effects I was going to add.



To create the dust effects on the horizontal surfaces, Ammo's Thick Soil was thinned with white spirit and applied as a heavy wash. This was concentrated around raised details and the base of the turret ring.



Once the wash had been allowed to dry, the excess was removed by gently rubbing the surfaces where it wasn't required using a cotton stick dampened in white spirit.



The Jerry cans all came from the Classy Hobby US Jerry can and fuel drum set. A choice of water and fuel cans are included. These were painted up accordingly and helped to add that splash of colour.

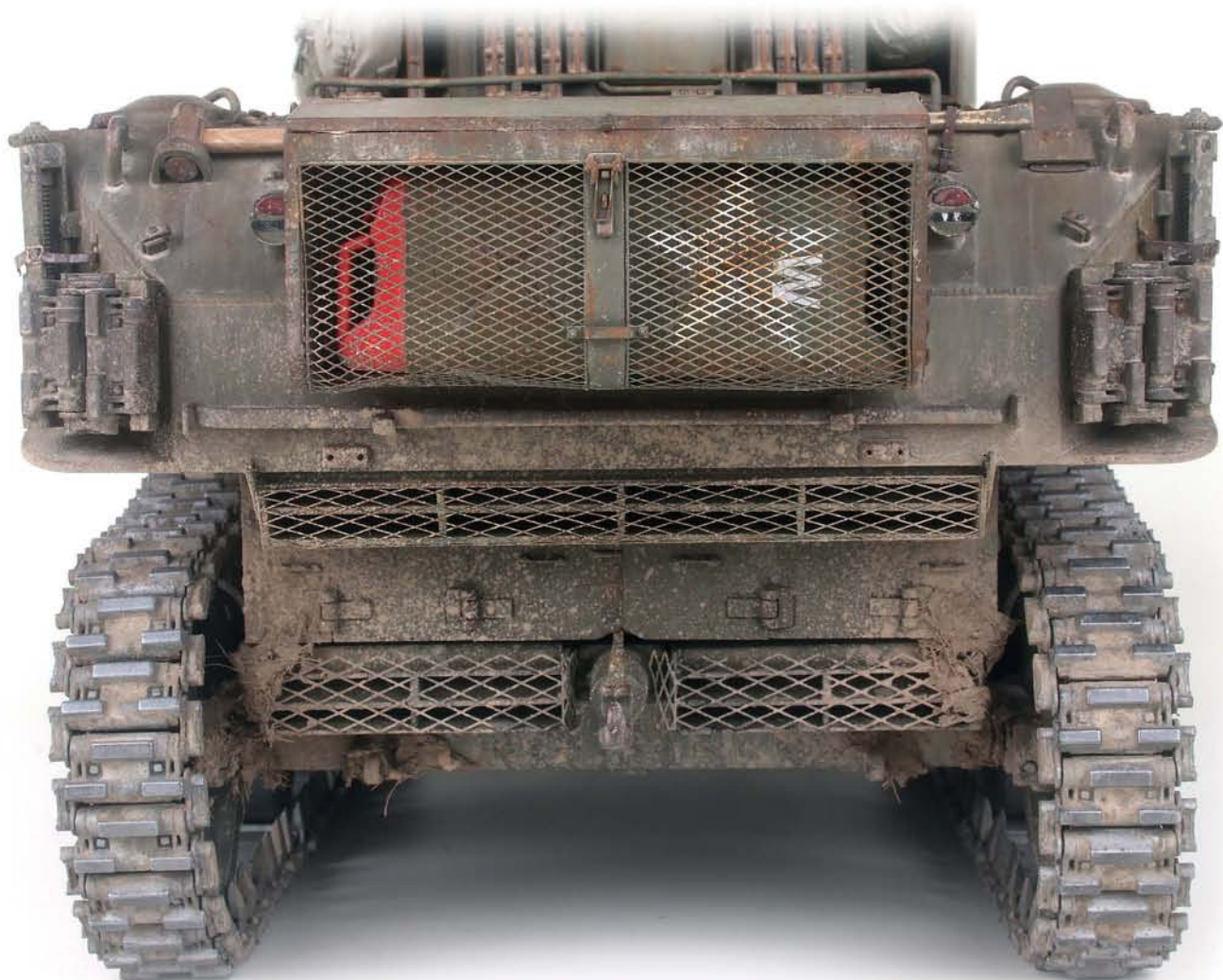


The Commander's .30 Cal machine gun was a model in its own right. The ammo box and belt are superb. The only thing that could be improved was the barrel. This was swapped for a stunning turned-brass item from Aber.



To create the characteristic grimy sheen on the areas of high-wear, Abteilung 502 Industrial Earth oil pant was dry-brushed along these edges. The fuel spills were created the same way, but using Grease effects also from the Abteilung range.

To emphasise the thin, sheet metal construction of the large rear hull stowage bin, more chipping, scratches and light rust washes were applied to highlight how easily this area would show the scars of heavy use. The streaked dirt effects was created by flicking on the thick mud, then allowing it to dry, before using a chisel shaped brush dampened in white spirit, to drag down over the speckles, creating the streaks.



M5A1



UPCYCLE



Hacking up an old kit in serious need of recycling is the way Zack Sex likes to start his unique ARV projects...



Sketches of the original photographs by the author

his Al-Mourabitoun T34 T
is no exception...



Having first seen this Hungarian built T34 T armoured recovery vehicle in museum photos some years ago I had no real intention of ever building one. My real interest is generally directed to ARVs and towing vehicles used in various global conflicts and I had assumed the Hungarian T34T had never been exported or if it had maybe just to Warsaw pact neighbours such as East Germany. (subsequently I have learned it was used in Angola by the MPLA and by Hungarian forces in the invasion of Czechoslovakia in 1968) Anyway upon examining AK interactive's new Lebanon 1982 book however one of the first things that grabbed my attention was two shots of the said Hungarian T34T in the hands of the Lebanese Nasserite militia the Al-Mourabitoun pictured in the middle of Beirut in 1982.



The Al-Mourabitoun was a mainly Muslim leftist group that came to prominence in the mid 1970s taking part in the earlier battles of the Lebanese civil war. The group obtained most of its vehicles in the mid to late 1970s from captured and defecting Lebanese army stocks. These included such vehicles as Staghound armoured cars, V100 commandos, M113s and Panhard M3 APCs. As the Lebanese civil war progressed the Al-Mourabitoun combined with other Lebanese left wing groups and the Palestinians to combat the Lebanese army and Christian militias. The Syrian intervention in 1976 altered was designed to ensure the Christian militia forces were not defeated, thus removing any pretext for Israeli intervention, but intervene they did in 1978 as far as the Litani river and in 1982 all the way to Beirut and into the Bekka valley.



This battle saw the Israelis decimate PLO and Syrian forces , laying waste to to Syrian and Palestinian units but also sustaining casualties of their own in armour ambushes. It became clear however that Isreal's victory was certain with the seige of Beruit and objective of expelling the PLO from Lebanon was inevitable . Yasser Arafat and his forces departed from Beruit leaving behind all of their surviving heavy equipment in the form of Tanks , APCs and MRLS units. The Al-Mourabitoun who had been long term allies of the PLO inherited most of the PLO's former Hungarian T34 85s which included Soviet and Czechislovakian variants .Included in this orginal 90 variants were a small number of Hungarian T34T converted from stanard T34 85 tanks. At least two of these were photographed in Beruit one with a KPV 14.5MM AA gun mounted in it's rear stowage platform. At this point a

Lebanese friend of mine Jamal Itani sent me a very useful shot of the said vehicle parked up on a Beruit side street and as the man says the rest is history.

Along with the T34 85s the Al-Mourabitoun received North Korean BM11s and two ZSU 23 Shilkas SPAAGs. The group wasted no time parading this new collection of vehicles around West Beirut daubed in Arabic script and some with posters of Nasser, the Al Mourabitoun leader Ibrahim Kulaylat or the distinctive Al-Mourabitoun oblong flag. So as vehicles from the Lebanese conflict go these vehicles ticked the boxes in a number of different ways for me, interesting variants , interesting finishes and an historical local and context.

The first in the que for construction had to be the Hungarian built T34T ARV and Paul Kunkels gave constructing the turret casemate a go, this worked well enough but needed a little refinement and I used his as a basis to build a second master that we went with. It's always best to make at least two prototypes before producing a finished variant .Paul took the master away and cast us a few for personal use .This allowed me get on with working out the dimensions for the rear stowage platform and various other minor fittings such as the gantry stand on the left hand side of the hull along with fuel tank arrangements in line with Jamal's original photo.

As this firmed up I proceeded to construct the KPV 14.5mm AA gun for the rear of the vehicle. Meng models produces a great set of four Soviet AA guns in which the KPV 14.5mm is available and it's a great little model in its self . My only issue with them is that the KPV 14.5mm barrels look too narrow in diameter for my liking, so I changed mine for a Mig productions one from a conversion set I produced with Adam Wilder many moons ago for a Syrian army T55 kit . At this point it's worth noting that I picked out an old Dragon T34 85 kit that Mick Jordan my old modelling pal had given me yonks



The T34 had a few coats of paint on it and needed new tracks and other surgery but I like to recycle old kits when building ARV kit bash projects , that way if they don't turn out it's not a waste of a new and expensive kit. Having rebuilt the T34 base kit, so to speak , I now started adding particular details such as the addition of a new Miniart etched light guard of which you get two pairs of different types in the new Arab Czechoslovakian produced T34 85 and probably the rest of their expanding range.

The etch light guard is finicky and I first painted the inside of the road light silver, add a simple masking tape mask later prior to spraying with guard in position. A few wire and loose ties were added around the vehicle to add a bit of visual variation as much as anything else . With the AA gun added extra interest to ARV I now decided I needed to find a figure that was suitable for the gunner role , the spot was filled by another Mig productions offering from the time of Mr Widler in the form of a seated Lebanese tanker resin figure , he fitted rather and I only repositioned his head by a few degrees to alter his focus a little.

West Beirut paint job....

The next step was to give my Lithuanian pal Arthurs Skyrus a shout , he is an ex-Red army tanker who loves his Panzers and is extremely efficient at spraying and most importantly maintaining airbrushs , I enjoy spraying but wreck the brushes . We work well together over a few beers and heated discussion over everything from correct colours to military history and everything else besides . We worked over way through a number of Belgium beers and various jars of Tamiya acrylic as you will see in the photos from a

dark grey black through dark green to paler shades . After Arty headed off home I started applying simple oil paint washes of Raw Umber mixed with a little tiny amount of lamp black. Over some card edges and handles I added a few minor chimp of very pale green but the real fun was adding lashings of Gulf war sand again a Mig productions pigment and I have to say my personal favourite. I simply mix the pigment with water about 50/50 and splash it on where required , I then let it dry and gently but firmly scrub it away with a stiff Old Oil painting brush , and that's it .

Posters and slogans...

Now for the tricky bit, having completed the exterior paint and pigment work it was time to add the last few little touches that might make or break the whole composition, adding the Al-Mourabitoun graffiti and poster. Based on the photo in the AK Interactive Lebanon 82 book I started to attempt to reproduce the Arabic text to the ridicule of a number of Lebanese and one Syrian Facebook pals. In the end I decided to go with the Zack Sex Lebanese tank graffiti font and spelling style . Next with the assistance of my good friend Bassel Abi-Chahine a Lebanese author I picked out one of the more popular Al-Mourabitoun posters of the 1982 period , that of Abul Nassar, the group was a pan Arab Nassarite faction , who held the former Egyptian leader as the main man, what he would have made of them Goodness only knows. Baz sent me an image of the said poster and I printed it off at 15mm in height .



WHAT IS AVAXHOME?

AVAXHOME-

the biggest Internet portal,
providing you various content:
brand new books, trending movies,
fresh magazines, hot games,
recent software, latest music releases.

Unlimited satisfaction one low price

Cheap constant access to piping hot media

Protect your downloadings from Big brother

Safer, than torrent-trackers

18 years of seamless operation and our users' satisfaction

All languages

Brand new content

One site



AVXLIVE . ICU

AvaxHome - Your End Place

We have everything for all of your needs. Just open <https://avxlive.icu>



I glued the printed poster at the appropriate position and then distressed it with some very light feathering of gulf war pigments. Over this I added a very very light dry brush of lamp black oil paint almost gone from a stiff haired oil painting brush, a mere trace of a smudge.

Figuring it out...

The next and final stage was painting the Mig productions Lebanese tanker who actually looked like an Al-Mourabitoun gunner I'd seen in a photo from Lebanon in 82, so along with the Mig productions reference shot I got started painting him. My two big enemies when paint figures are translucent finish and Matt colours drying in a glossy fashion. To avoid this I decided to try some new Humbrol acrylic paint over which I used oil paint washes these worked well and I popped the chap on the AA gun on the rear of the T34T, and he looked the part.

One other little detail was an AK 47 in the turret grab handle, something some modellers frown on "they'd never leave their guns like that" etc, well these boys do check the photos of their T34s. I finished off by some minor reworking some of Gulf sand pigments which I feel work pretty well and sponged on some pale spots on the upper hull and fuel tanks.

To sum up...

I really enjoyed this little challenge along with working with Paul, Bassel and Arthurs on various aspects and I now intend to go back and make a few standard Al-Mourabitoun T34 85s and one of their ZSU 23mm Shilkas and perhaps just perhaps scratch build one of their North Korean BM11 MRLS, so if that's your cup of tea watch this space. Happy modelling folks.





Above The hatch stay is not provided in the kit so I made one from plastic card.

Airbrushes.com

Airbrush Equipment, Paints, Accessories, Training & Servicing

iwata

TAKUMI

Iwata Side Feed Airbrushes Reimagined



Iwata Takumi Custom Micron
Side Feed Airbrush



Iwata Takumi Eclipse
Side Feed Airbrush

LIFECOLOR

ACRYLIC HOBBY COLORS

CS55



CS54



CS53

New LifeColor Paint Sets
Coming Soon!

NEW



Sparmax Quantum Orange
Compressors

LIQUID
PIGMENTS

Alclad II



DARKSTAR
METAL METALS

SPARMAX

www.Airbrushes.com

01903 767800

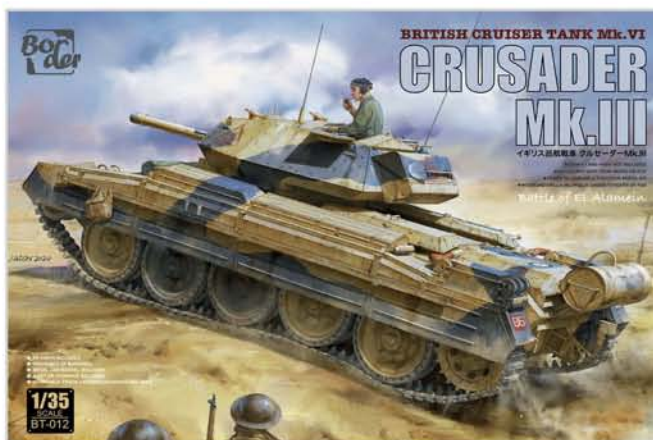
sales@airbrushes.com

ALBION HOBBIES

www.albionhobbies.com

Precision products for craft, hobby & industry

Dealer enquiries welcome, we are the UK/Eire distributors of these exciting brands:



Crusader III

A fantastic, new tool, Crusader 111 in 1/35 scale from Border Model



VK45.01(P) Rammtiger

A new kit from Das Werk - a Rammtiger - a prototype heavily armoured ramming vehicle - a great kit for letting your imagination run free.



T-72M2 Moderna

New from Amusing Hobby - a Slovakian MBT T-72 fitted with twin anti-aircraft guns. Also featuring a full reactive armour, workable track links and photo-etch.

For details of your nearest dealer/stockist/distributor please contact:

email: sales@albionalloys.co.uk Tel: 01202 511232

www.albionhobbies.com Find us on facebook search Albion Alloys

Lukasz orczyc-Musialek
creates a war's end warrior

SCHWERER WEHRMACHT SCHLEPPER



SWS
MAY 1945

In 1942, the Waffenamt ordered a design of a half-track tractor that would be low-speed, load-carrying vehicle for use on the Eastern Front. It needed to be cheap and easy to manufacture. Despite the fact that half-tracks are inherently complex structures, which makes the design process rather slow, the production of the new tractor began in the fall of 1943 at the Büssing-NAG plant in Berlin and at the Ringhoffer-Tatra plant in Kolin. It was never assigned the number of Sd.Kfz. and was commonly known as the Schwerer Wehrmachtschlepper (heavy army tractor). Due to the later entry into production, only about 1000 were produced by the end of the war.

Due to the greater payload and better off-road properties compared to the Maultier, the military wanted to use it as a transporter armed with a Nebelwerfer rocket launcher, which happened in mid-1944. The hull was armored in a similar way to the 15 cm Panzerwerfer 42 auf Selbstfahrlafette. It was also equipped with a 10-barrel Nebelwerfer 42 launcher. Vehicles on the SWS chassis could additionally take more ammunition than vehicles on the Maultier chassis.

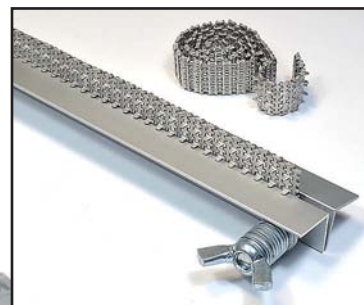


Another armored cabin was designed for the version with folding sides, which provided an excellent platform for the 3.7 cm Flak 43 L / 89 37 mm anti-aircraft gun. Both versions of the vehicle entered service in mid-1944 and remained in service until the end of the war. The unarmored models were used as supply vehicles and as tractors to haul artillery.

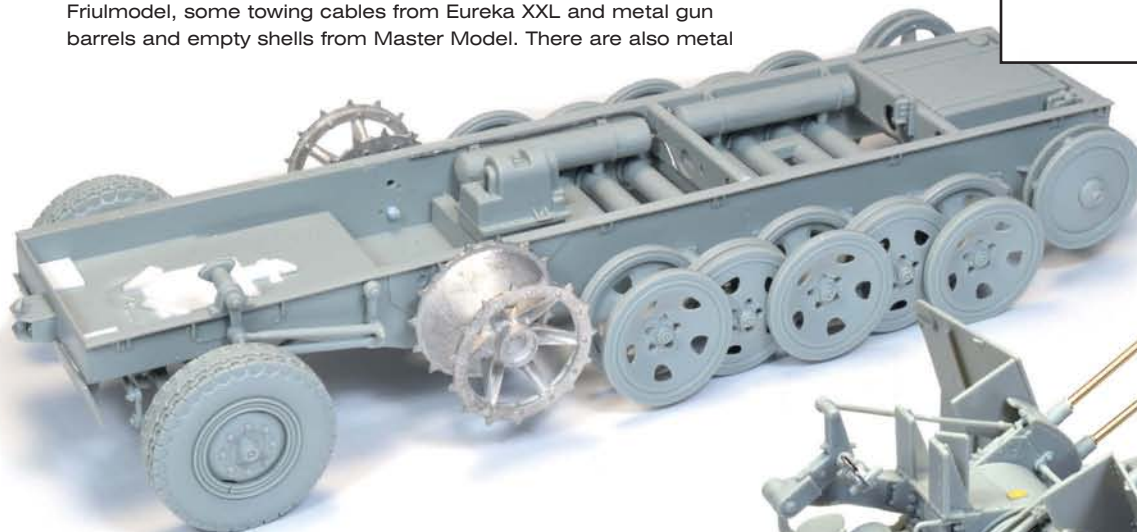
As I remember this kit was always on my wish list but there were no time to focus on it. I did not want to start the Italeri kit, I was more determined to Great Wall Hobby set, as it was better in general. Accidentally I found the chance to buy the version with 2cm Flakvierling 38 in good price on my local model market. After couple days I had it in my hands and started to look for some aftermarket. I decided to upgrade it with metal tracks from Friulmodel, some towing cables from Eureka XXL and metal gun barrels and empty shells from Master Model. There are also metal

indicators from RB Model, resin lights from PanzerArt. The icing on the cake was a figure from Rado Miniatures. It was also planned to set on small vignette with the barricade in the background. For this purpose I collected some elements provided from Miniart which I had in my office.

I started with the friul tracks. To build them quick I used my self made metal jig which is very helpful during such work like here.

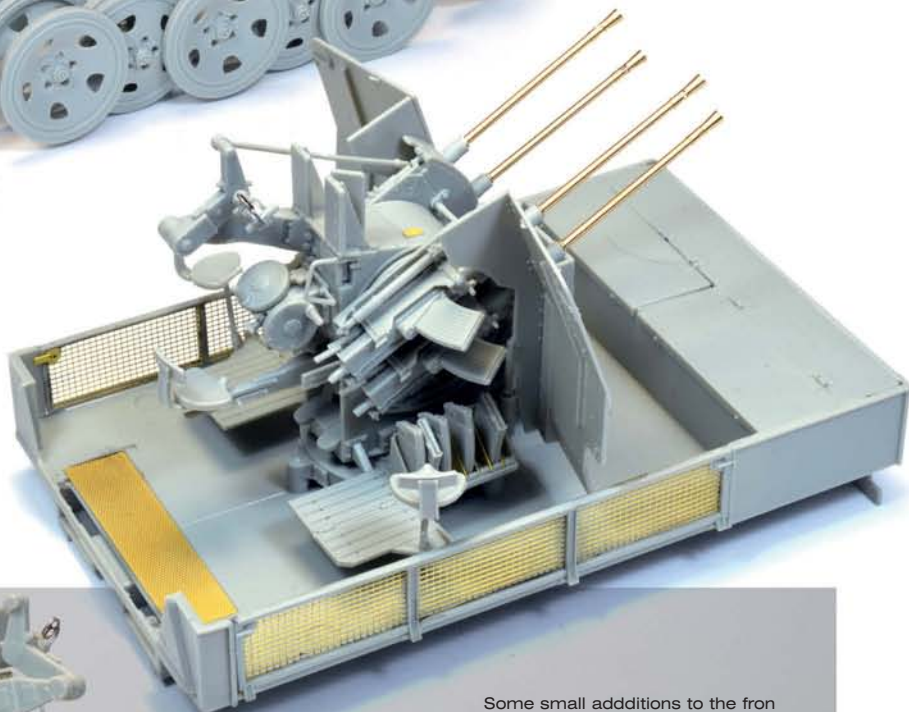


To upgrade the flak construction I used metal gun barrels which were definitely superb choice.

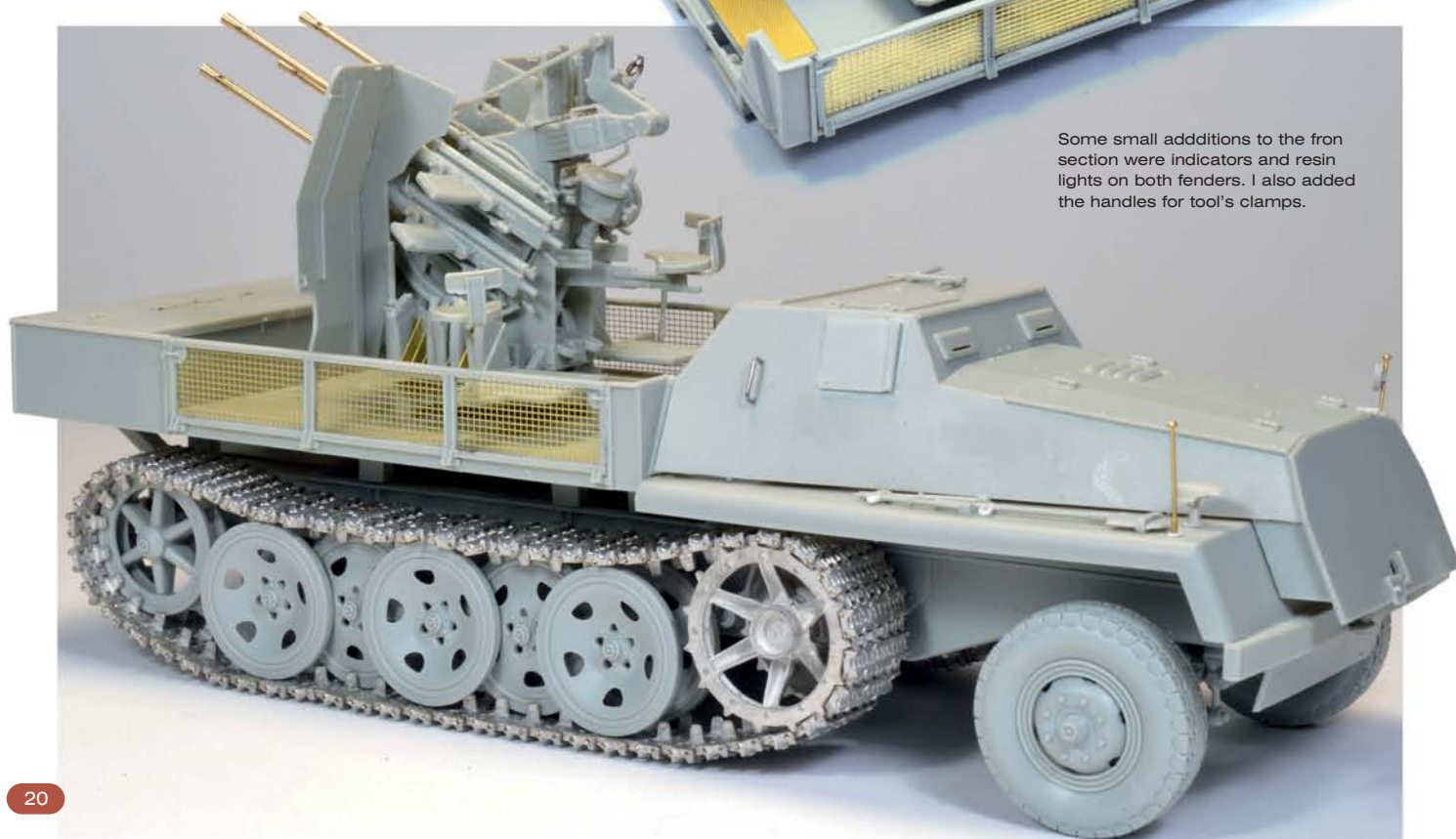


The completing of the whole chassis was easy and straightforward task. According to the references I added some extra pressure pipes which were made from soldering wire. I also changing the idler wheel. The drive ones come from friul set as they are better detailed and fitted to the friuls than original plastic parts.

The cargo bed was really easy to build. The PE parts fit perfectly and it is important to glue them with care and do not clog the mesh openings. The rear transporting spaces can be open or close. It depends of your needs.

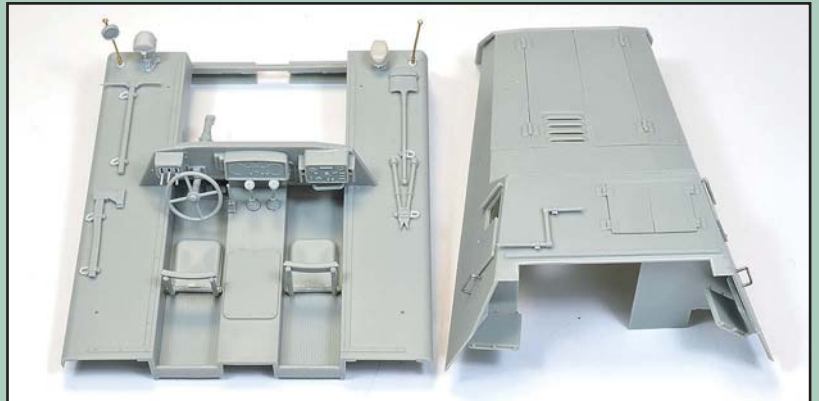


Some small additions to the front section were indicators and resin lights on both fenders. I also added the handles for tool's clamps.





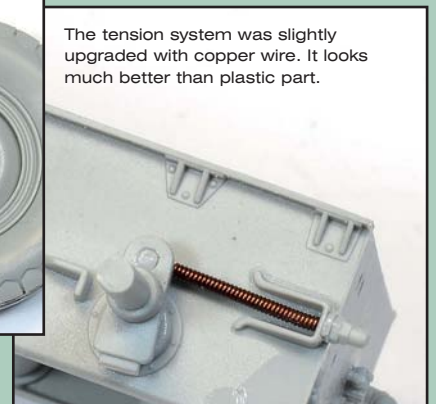
Some small upgrade of the front flap which I noticed on the references that it was quite often open. The driver's window also was open just to make some different view of the sides. The handles on both sides were prepared from soldering wire.



The cab completed but not glued together because of painting which is much easier when the parts are in this state. The equipment of the driver's compartment is very basic but fortunately it will be almost unseen after finishing of the model.

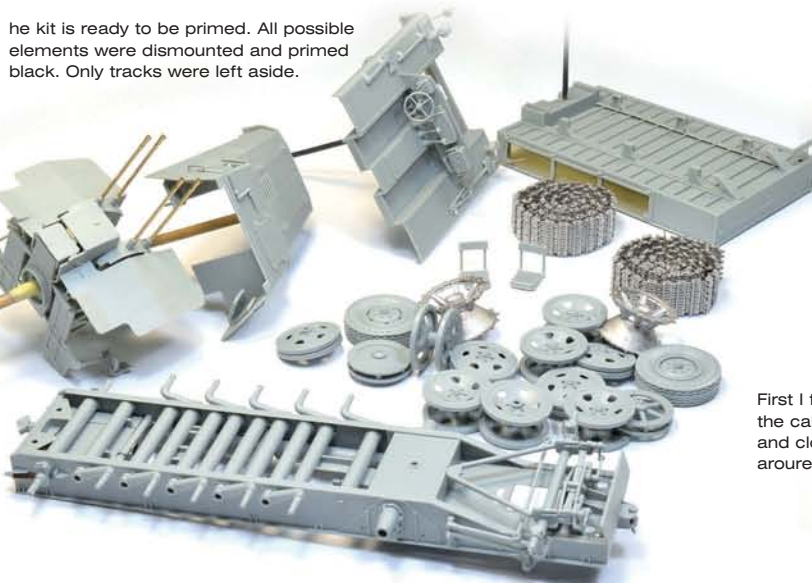


Note the different rims which can be used. I decided to mix them just to make the model more interesting, the same as the idler wheels.

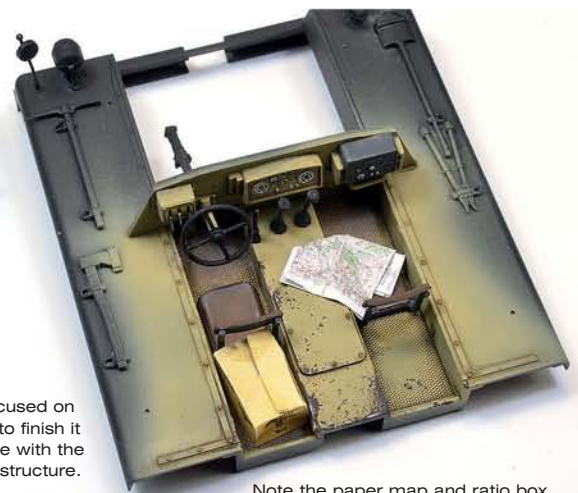


The tension system was slightly upgraded with copper wire. It looks much better than plastic part.

The kit is ready to be primed. All possible elements were dismounted and primed black. Only tracks were left aside.



First I focused on the cab to finish it and close with the armored structure.



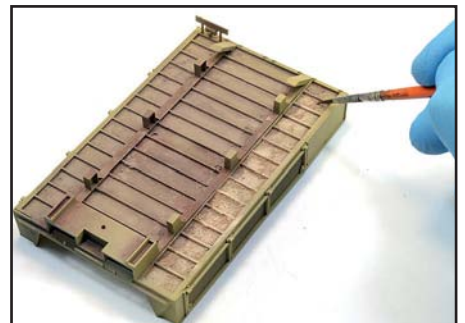
Note the paper map and radio box which make the final layout more attractive and eye-catching.



Next I primed the rest of the chassis with minia color and prepared some basic weathering as this section will be almost invisible after adding the cargo bed. Next I glued the front section.



Next I prepared the bottom of the cargo in the same way as the chassis. Dry pigments were applied straight on the model.



And next they were fixed to the surface with white spirit.

After that I glued all elements together and painted with basic dark yellow color. Of course the previously painted interior was masked with sponge.

To make the hardedged camo I prepared the masking tape blocks which were cut with hobby knife one by one on the cutting mat. Due to this the glue on the tape was not as strong and I was sure that nothing bad will not happened on the paint surface. After covering of the yellow I sprayed dark brown. The same process was repeated and I cover brown with masking tape blocks.

The last color was olive green. All remain unpainted spaces were sprayed to finish the camo building.

And after peeling from the tape the effect was quite good and no fixing of the bugs was needed. Some really small imperfections were acceptable and will toned down after weathering and loading the stowage. So there were no need to waste the time for them. I decided to add some extra painting on the nuts which were treated with silver paint. At this step I also painted the details e.g. tools.



Next I focused on the wheels. They were completely finished with acrylics.



All scratches were handpainted and filled with some rusty oil paint.



Now was the time to make the basic wash with some enamel paint. But before I did this, the registration and information plates were added. I used the decals set provided by the producer. The stickers were added on the glossy surface and treated with Sol from Microscale.



When the wash was completed I used buff mixture (tap water and drop of liquid soap_ to make some dusty filter on the entire model. I used hairdryer to speed up the drying process.



Chipping time. First I painted the chips with sponge and very dark brown acrylic paint. Then some micr chips were speckled around the model with water diluted paint.



Some of the chips painted before were enriched with some rusty tone. For this purpose lused oil paints which were blended with white spirit.



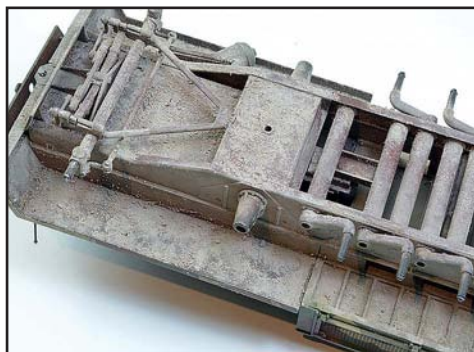
Using the dark grey oil paint I prepared some filth and dirt around the model, especially in places where the everyday service may cause such effects.



All oil works were saved with cloud of flat coat.



Time for pigmentation of the lower sections. Here I applied the same pigment as before to cover the mudguards with imitation of dry mud collecting during the terrain ride.



After drying it looks a bit boring but soem extra oil leaks and splashes will add more tones to this section.



wheels are dry fitted at this stage to check the harmony of the weathering of the various components.



Lets go to work with the tracks. After cleaning them with brush and soap I started to make the burnishing. I used the old toothbrush and just scrub the tracks on both sides. The chemical reaction made the rest. Some pigment to make the tracks more dusty. All was fixed with white spirit and dried with hairdryer.



The polished traces after wheels rolling were done with soft pencil. The external edges were sanded with sandpaper.



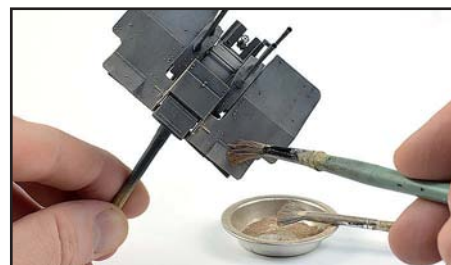
Time to make some painting on flak gun. For base coat I spayed mix of dark and light grey whic was covered with cloud of glossy varnish for better and easier wash application.



Next I started to make some improvements on the flat surfaces by adding the different tones of grey to the basic color.



The chipping was done the same like in the vehicle and again I added the rusty tones and blended them with white spirit.



And some extra dusting with pigment, starting from the lower areas and going up. All fixed with white spirit.



Leaving the flak for better drying I take the vehicle and started to add the pigments on the cargo bed floor. It was added mainly around the flak base.



The collection of the ammo cases and magazines, tarps and dry grass was arranged in the corners to make the room for rotating of the flak. All dry grass was fixed to the floor with fixer.



Some extra detailing to add - metal empty shells. I did not paint them, only weather after glueing tho the model. The same fixer was used to keep them on the place.



Using the medical gauze we can make some masking net.



Just add the acrylic colors you need to the gauze by sponge, brush or airbrush.



The effect should look like this. No original white threads, all painted on both sides.



Make some unification with highly diluted acrylic paint. I used here green but you can use brown or even black or grey.



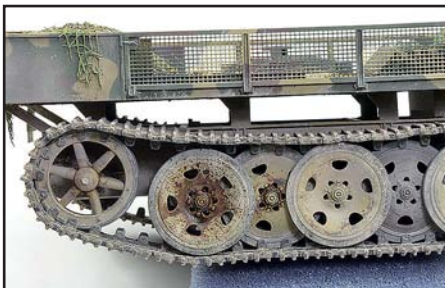
When the water will be removed (by paper towel) we ca started to set the net on the model. The most important is to check if it left no paint on your fingers. If not dry it more. Use PVA glue diluted with water to keep it on the model for sure.



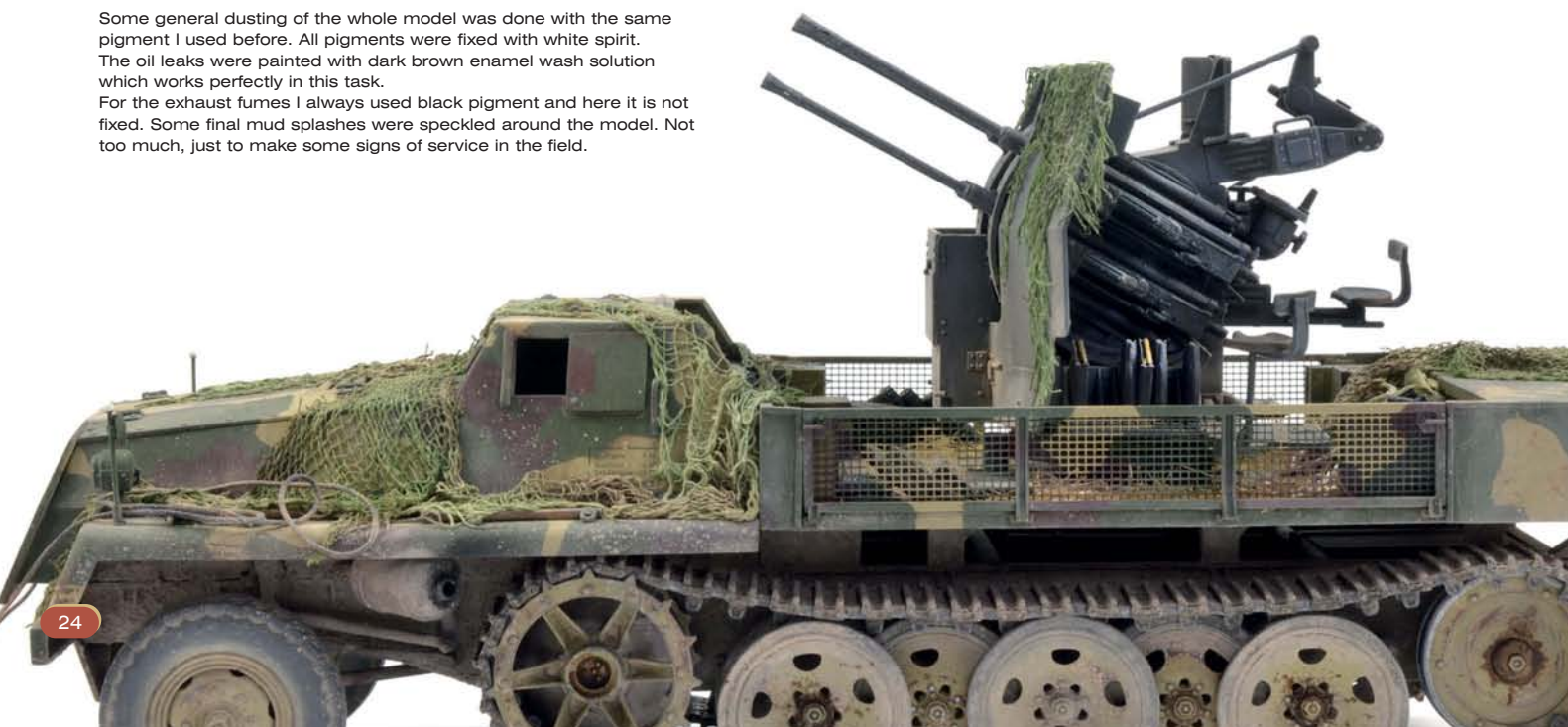
The towing cables originally designed for Pz.III were added to the front of the model. They always add more detailing look and make the vehicle look more realistic. To make them a bit shiny I polished them with pencil.



Some general dusting of the whole model was done with the same pigment I used before. All pigments were fixed with white spirit.



Some general dusting of the whole model was done with the same pigment I used before. All pigments were fixed with white spirit. The oil leaks were painted with dark brown enamel wash solution which works perfectly in this task. For the exhaust fumes I always used black pigment and here it is not fixed. Some final mud splashes were speckled around the model. Not too much, just to make some signs of service in the field.





BASE

The base was prepared with the balsa planks which were cut to fit with the part of the plastic Miniart street road I had in my stash. The background of the vignette was constructed with the wooden beams and some planks. All of this is build from single parts. I did not use any set - just my own ideas and materials. The second part of the barricade was made with Miniart's sets - cable spoons and anti-tank obstacles. They were painted with acrylics and weathered with enamels and oils. After setting of particular elements of the barricade I glued them and started to fill the gaps with small plaster bricks. I had white and red ones so the nicely added more tones to the structure. When they were placed on the correct location I prepared the acrylic resin mixed with tap water and slowly drop after drop soaked the barricade using the syringe. After 30 minutes all was fixed and I could sprayed flat coat to cover the resin glossy stains which it left after drying.

To add the high point of the vignette I made the pole for tram electricity. It was painted in some contrast color and weathered in the same way as the rest of the scene.

The final look and unification of barricade and the road was done with the pigments.

To add some human factor I added the Rado Miniatures figure of the flachirmjäger but I replaced his head for the one from Hornet. It was painted with acrylics.

The balsa side planks were painted black and in the end I added the laser cut Yen Model letters.





SCHWERER WEHRMACHT SCHLEPPER



OPERATION EPSOM

**PART
3**



JERRY RUTMAN Tells the story in-scale of this important part of the Normandy Campaign in WWII

EPISODE SEVEN

In the previous Episodes, the 15th Scottish Div. has attacked the lines of the dug in 12SS Pz Div on a two Brigade front and broken through. They ran the gauntlet over the wide open fields at the start point and are closing in on the mornings' objectives.



St Manvieu, the days' objective for the 6/Royal Scots Fusiliers on the extreme left of the assault line, is in sight. The last hedge is used as a time to quickly reorganize and rest.

Supporting Churchills of the 9/Royal Tank Regt. are in place for support.



The tankers wait for the Infantry to clear the buildings, which can hide tank killers. The tanks normally "hose down" likely enemy positions with MG fire before the Inf. advances. "Have a care Lads"

No sooner is the town entered than the last Pak40 in service knocks out a Churchill!



Members of the 12SS are still withdrawing into the village, which has been turned into an anchorpoint for the defense. "I am out of ammo! Go back to the corner and give Tommy a burst while I look for more!". "Zu Befehl Unterschar!"

BBBBRRRTTTTT!



"BOLLOCKS ! BILL'S BEEN HIT
! Spandau to the left. MOVE !"



"GET YOR ARSE OWER THA BLOODY ROOD" !! NOW!!



Directly after the rolling barrage has passed his position the Commander of this part of the line, Sturmbannführer Krause, sends runners to request tank support. The telephone lines have been cut and radios are out of order. Krause picks his adjutant Untersturmführer Holzel for this important task. Holzel takes a runner, Sturmman Kalke and another Untersturmführer, from the Arty Regt along.

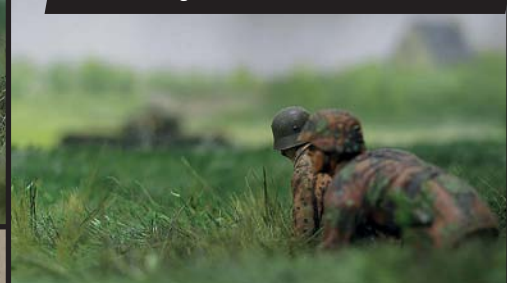
Holzel checks to the right before crossing the Caen/Fonteney road.



Holzel checks to the right before crossing the Caen/Fonteney road.

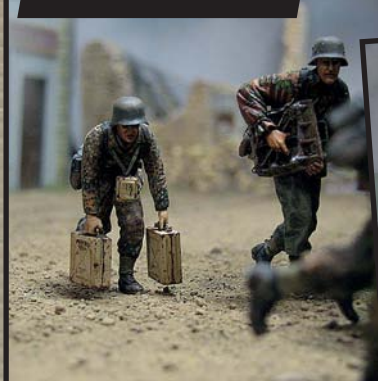


HOLZEL: When that tank moves off ,run for the other side!
The group finally locates the commander of the 9/SS PzRegt, who declines to help because going into the village with his tanks would be "suicide".



Back in the village the squad leader for the mortar position gathers survivors of the barrage to run back to the pummeled gun pits. They retrieve enough undamaged bits to put 2 mortars back in action behind the HQ building. Subsequent trips are made under fire to bring back ammo.

"How many more trips must we make?"



The artillery barrage has rolled on but now mortars begin to hit the town.



"I dinna like it Rob".



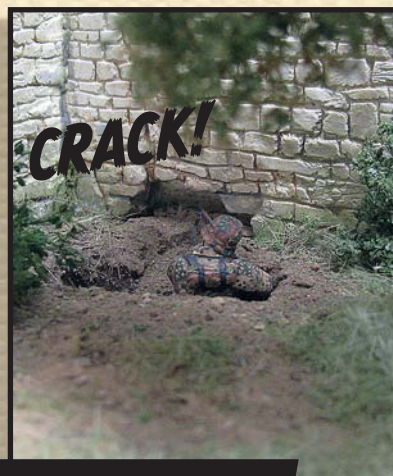
A Company of Scots moves cautiously into town with a Bren securing to the right.

German resistance has not slackened. Unterscharführer Emil Durr after 3 attempts and several serious wounds, knocks out a Churchill flamethrower tank with a Panzerfaust. Barely able to walk he is helped back under cover. Durr will be the first enlisted soldier of the HJ to win the Knights' Cross, albeit posthumously.

Och go'an ya scunner!



X"Should've waited for me to clear that window lads" I'll get'em".



CRACK!

The company Captain confirms with the lead section that the way is now clear. "Alright then, clear up ahead now?"

"C'mon Tommy! Make it three!"



"Auld on son. I've got ye. We'll get them!"

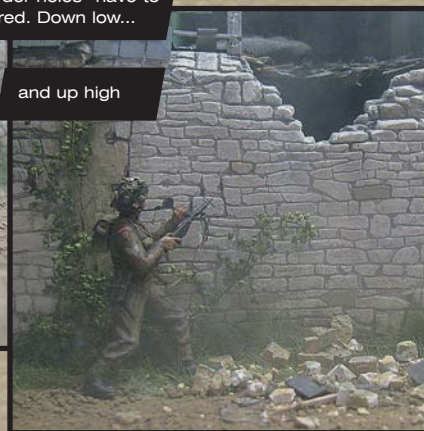


And so it went. Buildings have to be cleared one by one using the time honored method, burst of Sten through the door, bash the thing in, then a quick Mills' bomb through the

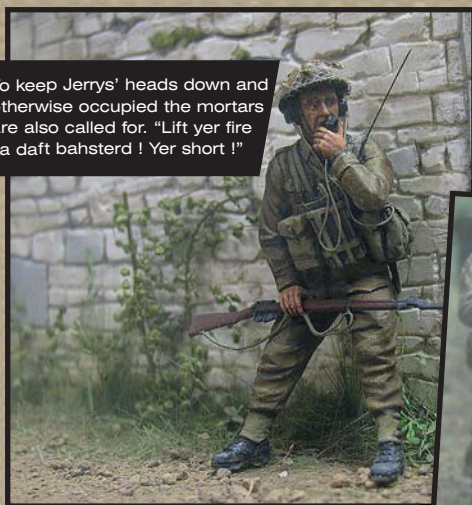


All "murder holes" have to be cleared. Down low...

and up high



To keep Jerry's heads down and otherwise occupied the mortars are also called for. "Lift yer fire ya daft bahsterd! Yer short!"



"Aye, watch your manners Laddie. Here ya go."



THUMP!



Their ranks thinned and under enormous pressure the men of Krauses' Bn pull back. "When we get to the corner, I'll throw this grenade while you cover me!"

But they do not give up!
Still, the Fusiliers move
inexorably forward. "Right.
Where's the next of ya!"



Nevertheless, slow and steady
work is clearing the town.



But the progress comes at a price.
"Sorry Laddie I was too late for ye!"



The tide of war slowly
recedes from St Manvieu.



Ultimately at the end of the morning on
the first day of Epsom, Montgomery's
great Offensive moves south, leaving the
historians and survivors to tally the
human cost.
"Here's another poor sod Corporal."
"Right...mark'em...same as the rest".



As more of the 26th SS
PzGren Regt throw in the



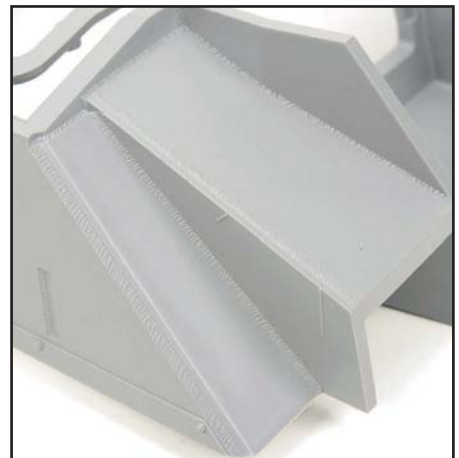
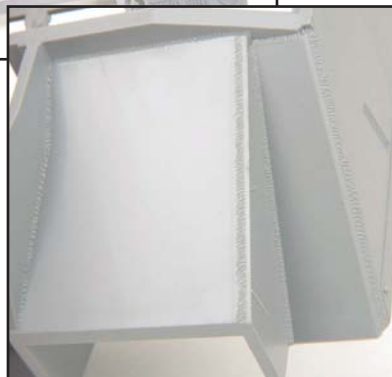
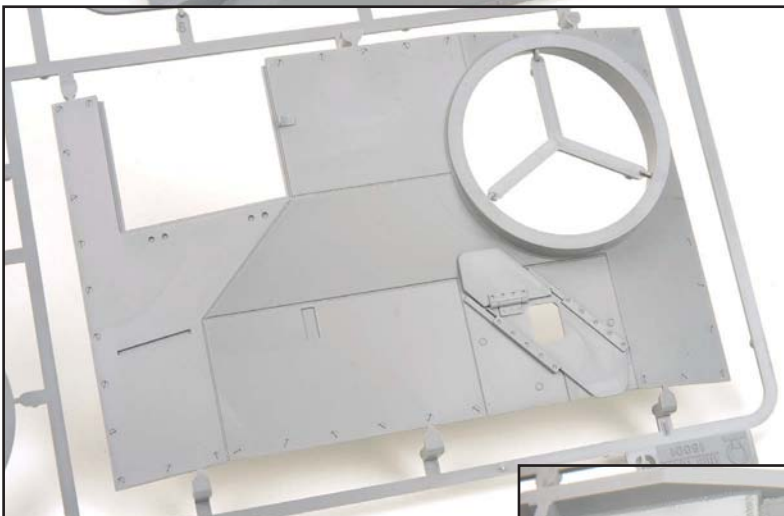
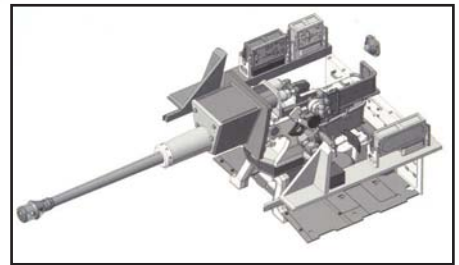
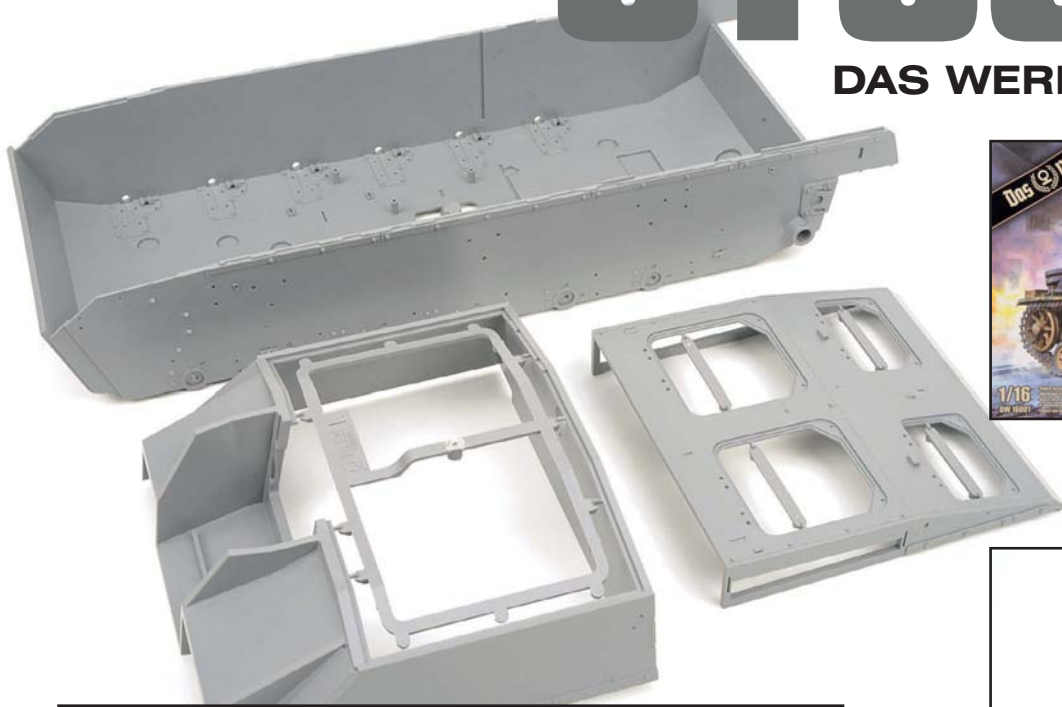
As an example the full strength company of the
6/RSR leading the assault into the village had a 50%
casualty rate with the other companies also
suffering mightily.
For the survivors, a welcome rest was given as
Montgomery's policy of rotating the lead units was
going into effect. Point units of the 11th Armoured
Div. were appearing to replace the 44th Bde.



TO BE CONTINUED...

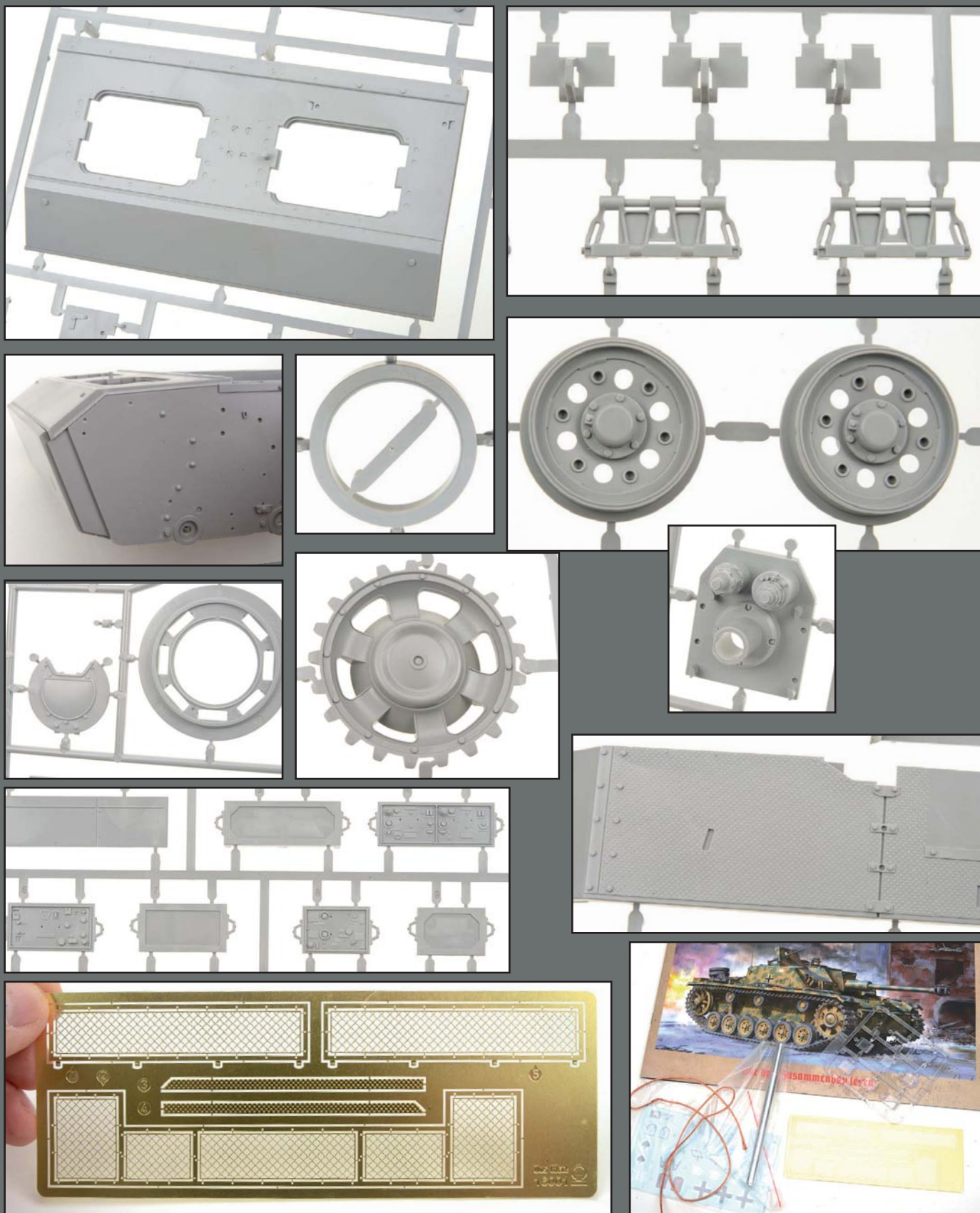
SUPER SIZED STUG III

DAS WERK 1:16 STUG III



We take an advanced look at the new Das Werk 1:16 Stug III Ausf G which is just making into your hobby shop as i write. The kit has been produced in co-operation with Takom and is therefore essentially an upscaled version of Takom's 1:35 scale kit. The kit has undeniable presence when unboxed and it comes with a photoetched fret for the mesh air intake screens and the folded up sections of treadplate next to the engine air intakes. There is a set of clear moulded periscope blocks and Driver's vision block, a turned aluminium gun barrel and braided copper tow rope. Detail is generally good but some parts show signs of having been enlarged without a corresponding improvement in detail. The fire extinguisher and MG 34 are good examples of this.

Unfortunately the kit carries over the errors from the Takom kit with the bow armour which in this early Ausf.G has the 30mm appliqué armour. The kit bow resembles more closely the later 80mm bow armour rather than the 50mm + 30mm which means the thicknesses of some plates are incorrect. This may not bother the casual builder of the kit but once you see it its hard to overlook. The bolt heads securing the appliqué armour are also a little suspect with the shaft overlarge when compared to the real thing. The kit most closely resembles a MIAG manufactured vehicle with no choice for example of different pattern mudguard supports. There is a partial interior for the fighting compartment which more than covers details that will be visible through the



hatches but lacks ammunition stowage and any detail ahead of the gun. Whilst not complete by any means its an excellent basis for anyone wanting to go to town with the interior. The torsion bar suspension is functioning but quite powerful and requiring quite a force to obtain the correct ride height but its simple enough to just fix and glue the swing arms in the correct position. The tracks are individual link but are moulded in two halves, split laterally so that the upper section with the track tooth glues onto the lower and sandwiches the track pin. The problem with this is that it compromises the moulded depth of the recessed details on the track giving them a slightly flattened appearance. A generous coating of mud will of course fix this if you cant live with it or there

are now aftermarket alternatives.

I am aware that this sounds like a negative appraisal but far from it. In fact I really rather like this kit, it builds well and ticks many boxes. The inclusion of the interior detail is a massive plus with the big roof hatches affording a good view inside. Perhaps the biggest attraction is the extremely competitive price at around the £100 mark which you really cant argue with. Loads of potential and sure to be immensely popular both out of the box and as a basis for alternative variants.

MISSION MODELS

PREMIUM HOBBY PAINTS, PRIMERS & ADDITIVES

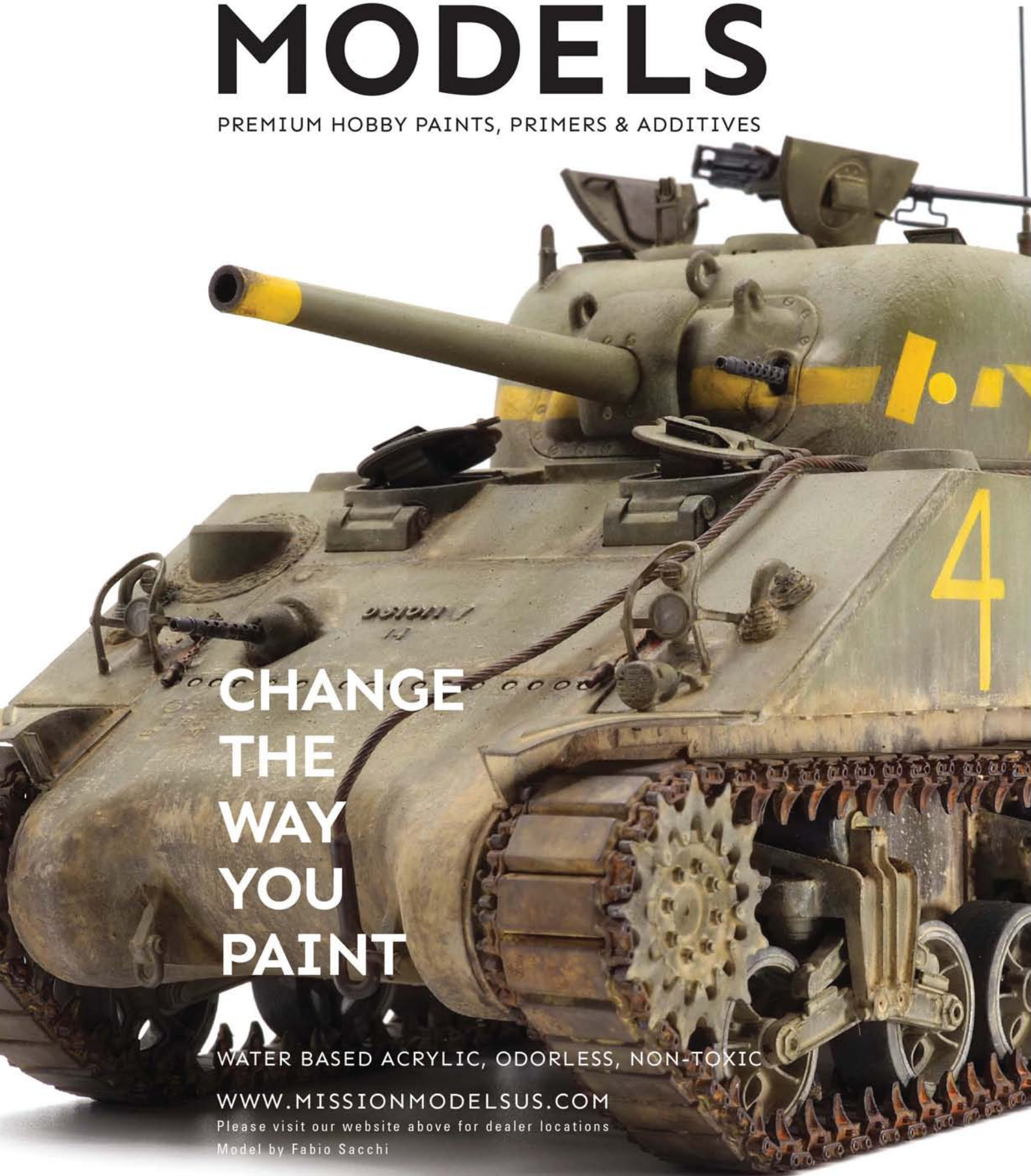
CHANGE
THE
WAY
YOU
PAINT

WATER BASED ACRYLIC, ODORLESS, NON-TOXIC

WWW.MISSIONMODELSUS.COM

Please visit our website above for dealer locations

Model by Fabio Sacchi



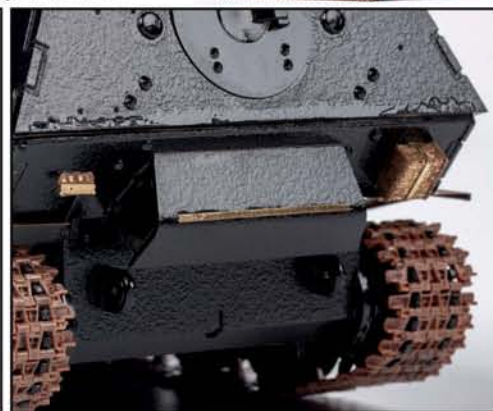
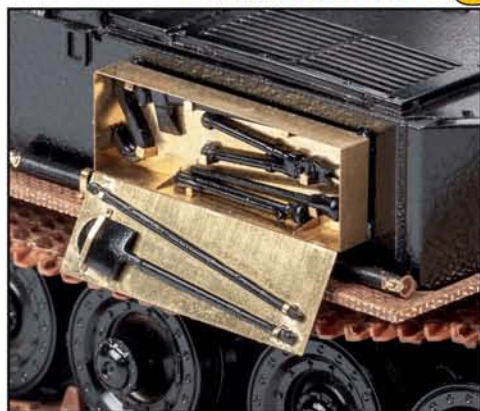
BEST BRASS AROUND

eduard

Ferdinand

1/35 Amusing Hobby

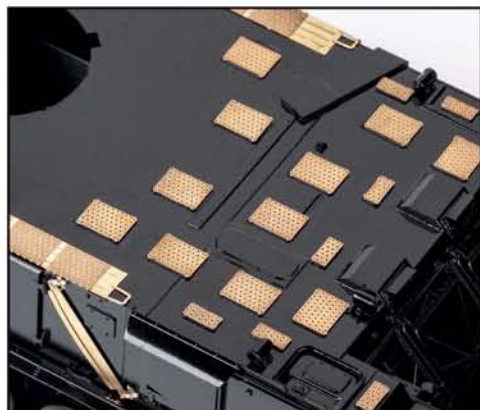
Cat. No. 36472 general set



TOR M-2/SA-15 Gauntlet

1/35 Zvezda

Cat. No. 36473 general set



IDF Shot Kal

1/35 Amusing Hobby

Cat. No. 36468 general set

Cat. No. 36469 turret boxes



www.eduard.com

Panzerkampfwagen

David Parker builds Trumpeter's 1:16 kit

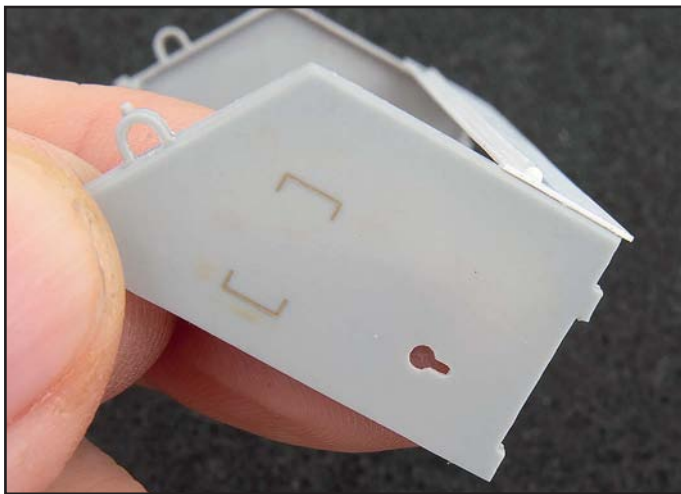
Part Forty

Moving swiftly over the fact that this is worryingly part forty, work continues in detailing the hull. i have tried to work my way logically around the hull but inevitably there is some jumping about between different areas. One of the most time-consuming parts was reworking the tires on the roadwheels to add a variety of different manufacturers rather than having the same name on each. I think the results repaid the effort but i detest anything with repetition and with 32 separate wheels and tires there was

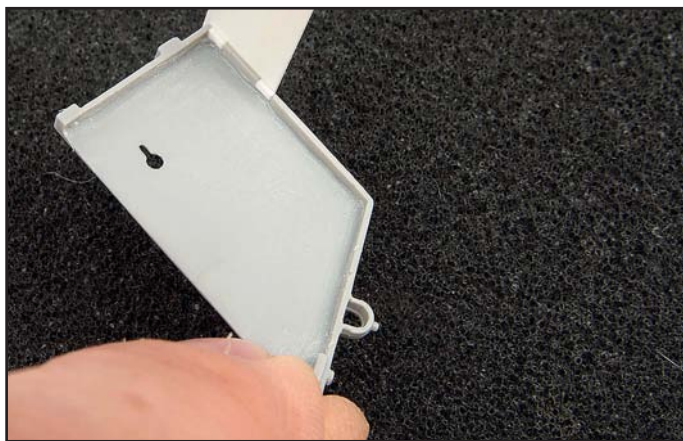
considerable repetition. Tool stowage is another of my least favourite areas and in 1:16 it really has to be done properly. Happily I was able to used 3D printing to ease the process producing vastly superior results which have lifted the appearance of these parts. With the remains of the Schurzen rails installed I am almost ready to move onto detailing the exterior of the turret.



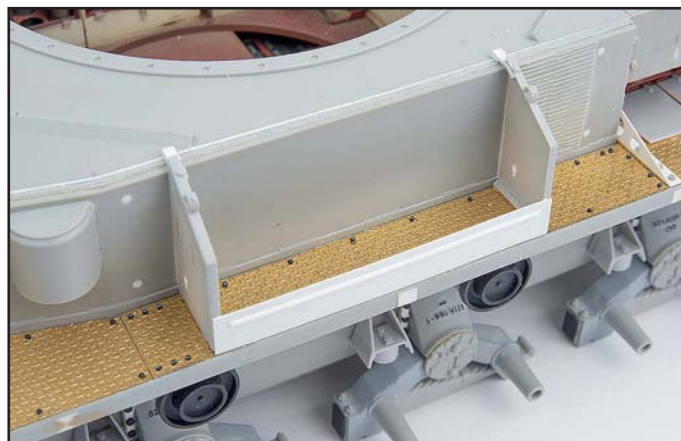
The spare wheel bin needed a complete rework due to the excessive thickness of the kit parts. I made a new front panel from plastic card.



The two end panels were heavily thinned down using a scalpel blade to scrape away the plastic on the inside face of each panel/



The inside face was then sanded to a smooth finish before they were assembled with the front panel.



The completed spare wheel bin was glued into place on the track guard.



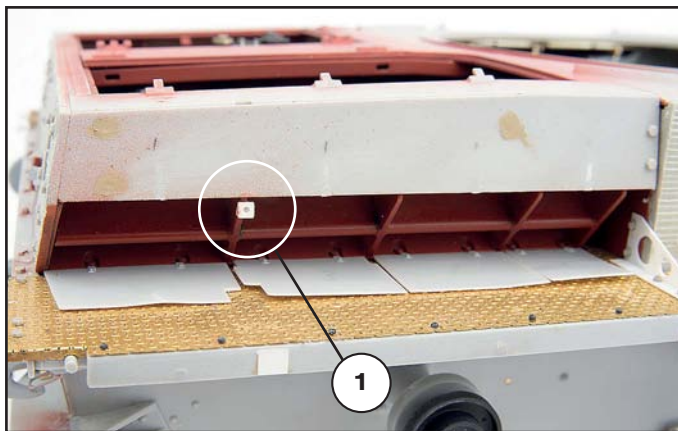
The mounting strap was replaced with plastic strip allowing the hull roof to be removed without affecting the wheel bin.



I replaced the kit Bosch headlamp with my own 3D printed version which has more detail. I used copper wire to make the power supply cable replicating the Nibelungenwerke style of installation.



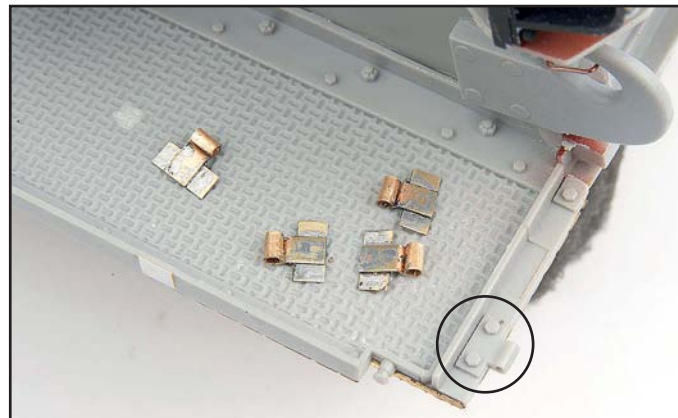
I chose to use the kit vent covers but only after I had sanded them down to a more scale thickness. period photos show these not always sitting completely flat or being slightly bent so I replicated this.



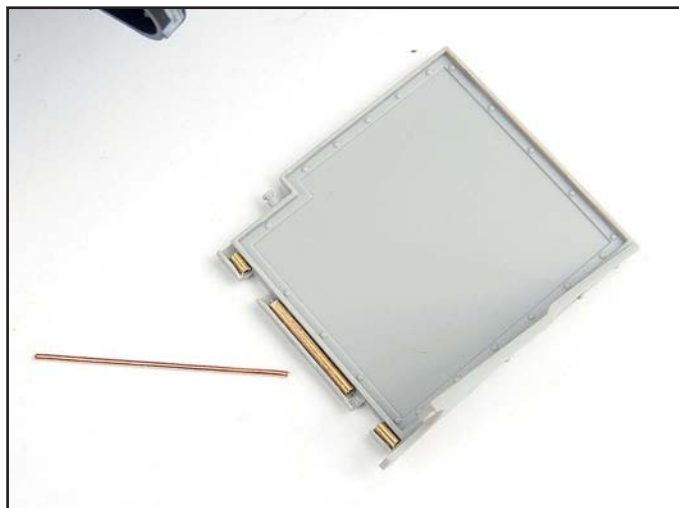
I removed the moulded on clips that hold each of the covers and I added the mounting block **1** for the Shürzen rail on the upright of the vent.



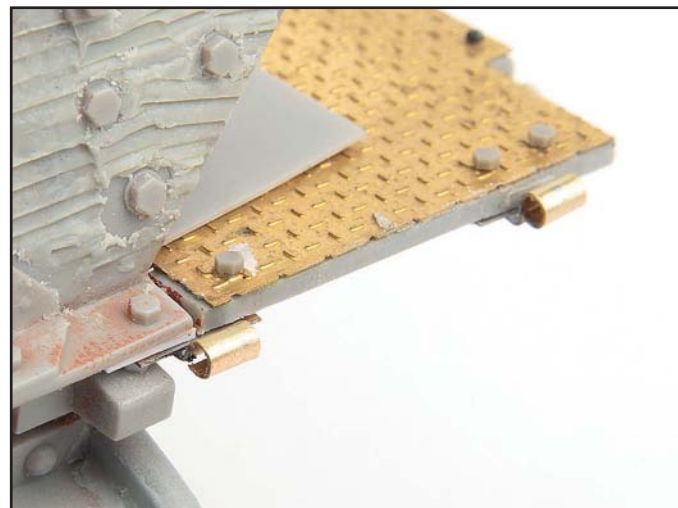
I began work on the hinges for the rear mudflap mounts by rolling some strips of brass around a brass tube to create one part of the hinge.



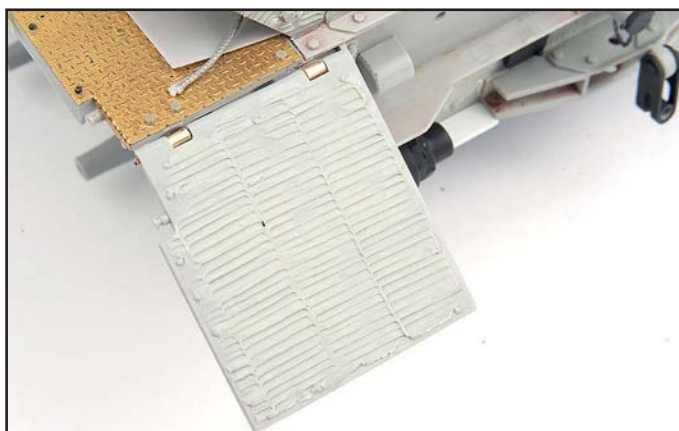
These were then soldered onto another brass strip to make the mounting bracket and the moulded on kit hinges were removed.



Inside the mudflap I glued pieces of brass tube into the channel to form the other part of the hinge.



The replacement hinges were glued into place on the undersides of the track guard. On subject vehicle the RHS mudflap is missing so these will be visible



The LHS mudflap is test fitted in position using a temporary pin to check the alignment.



The underside of the mudflap shows the arrangement - I will use a thicker pin eventually to secure the mudflap.



I replaced the underscale kit tow brackets with the sublime Bitskrieg versions and it was a refreshing change to just be able to glue a part in place without any modification.



The kit roadwheels have separate tires but they all have the same incorrect 'Continental' markings. In reality there were a number of manufacturers for the tires so I set about designing myself some new tires/



I produced 5 different designs of tires, each has a different style of logo and other production markings which all adds to the interest. The new tires were then 3D printed.

I decided to pre-paint the wheels as separate parts to avoid a lot of unnecessary masking. The inner contact faces of the wheel were painted with Mr Metal Color Iron and polished.

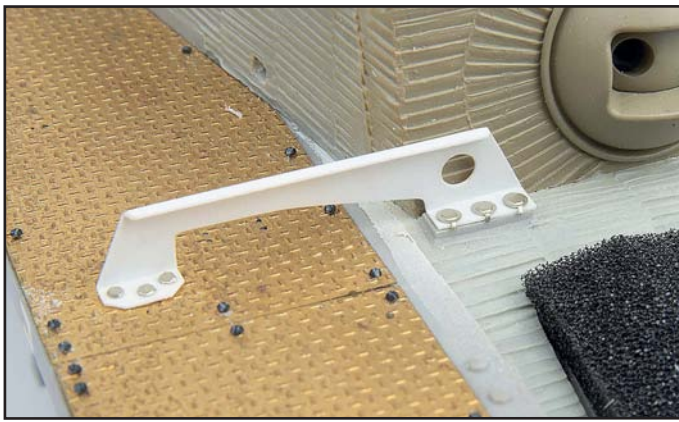


With thirty two wheels and tires to process it was a time-consuming process to prepare the wheels

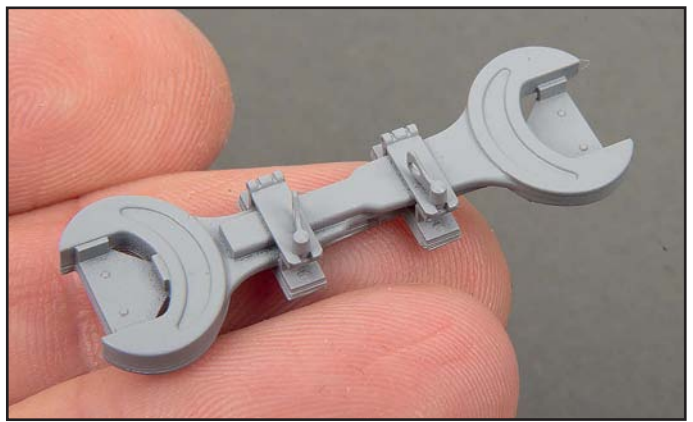


The tires are a snug fit so I push fitted them to the hubs. I decided against installing the wheels at this stage but I couldn't resist dry fitting them onto the hull.





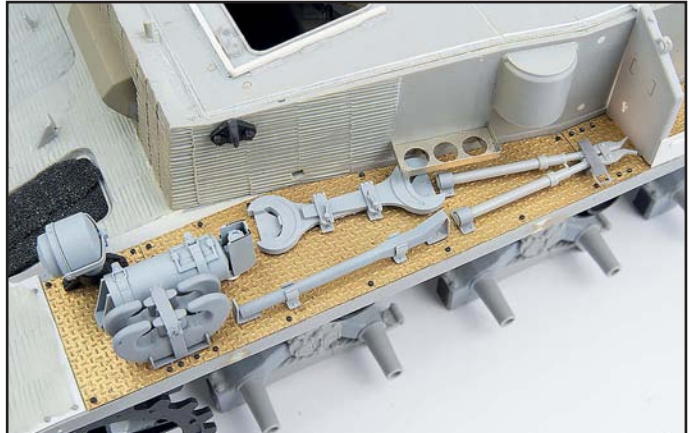
I made the track bracket from plastic card replicating the typical Nibelungenwerke style with the hole punched in the upright left over from the old bolted applique armour.



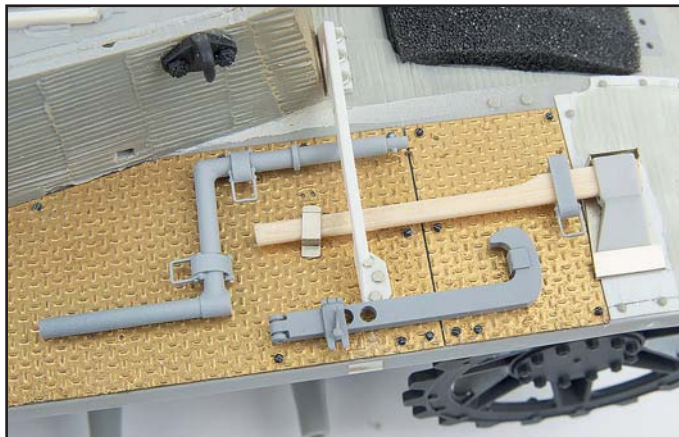
Tool stowage was the next task and not one I was looking forward to. I was not happy with the majority of the kit tools so I set about designing my own and printing the tools and clasps.



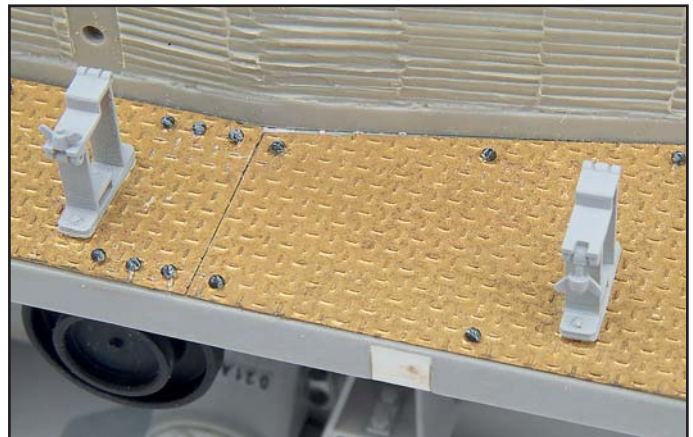
Normally I would be reaching for the photoetch to add details like the clamps and tool clasps but I felt they were too thin for scale and here I was able to print the clasps in position on the tools.



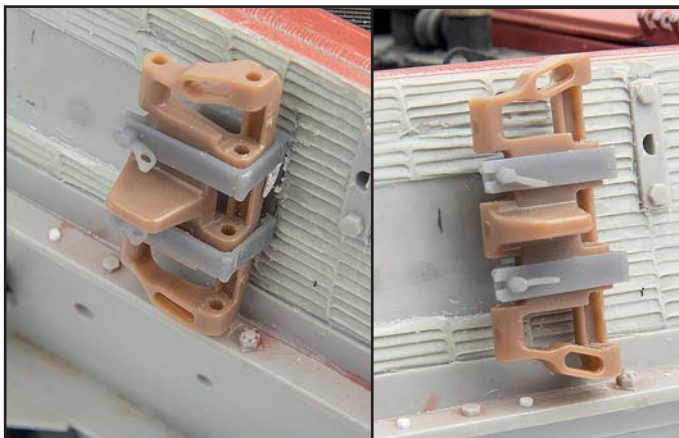
On the LHS trackguard I only retained the wire cutters from the kit but printed new clasps to secure them. The crowbar clips were printed as separate parts but the C Hook rack was printed as a single piece.



On the RHS trackguard I used the kit axehead but made a new wooden handle for greater realism. The other tools are scratchprinted.



My subject vehicle is missing its Jack but the clamps that secure it remained and I added some variety with different positions for the wingnut clamps.



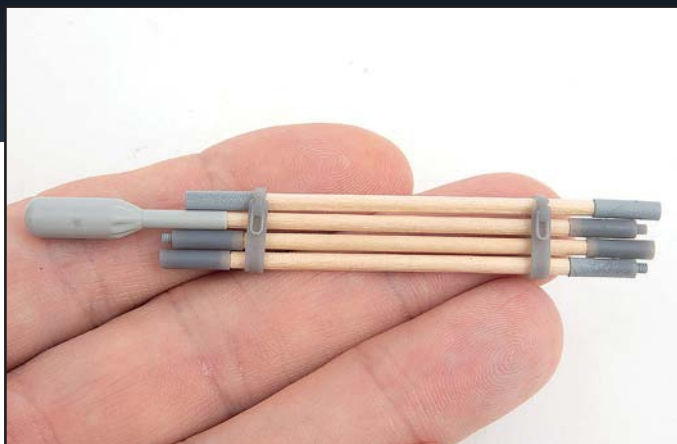
On the rear hull the spare track brackets were also scratchprinted.



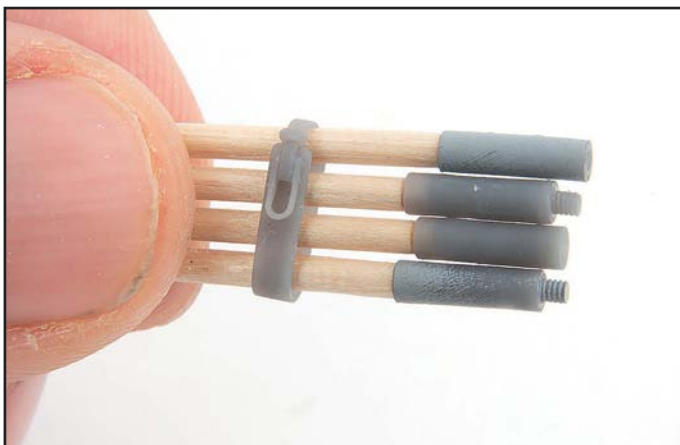
The long crowbar simply push fits into the separate clasps. All tools were dry fitted at this stage to allow for painting.



The idler spanner was scratchprinted with clamps in position.



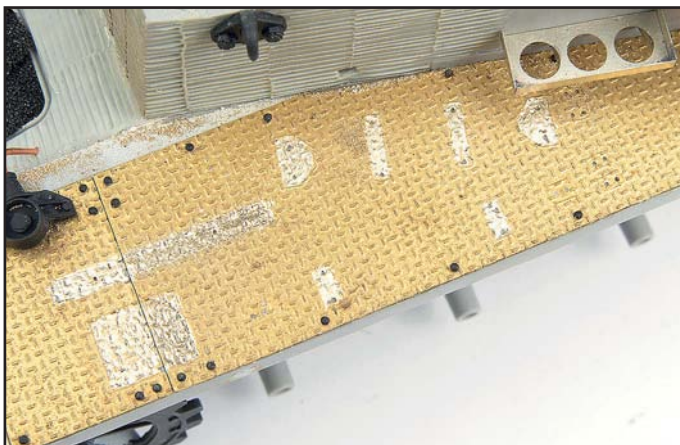
The gun cleaning rods are still something of a work in progress. I wanted to use wooden shafts and I printed new end caps to fit onto cocktail sticks for the shafts.



The screw threads on the end connectors can be seen here along with the scratchprinted clasp. I have not decided yet if I will stick with the cocktail sticks or switch to a plastic shaft.



I added the rear cable hooks using 1.25mm copper wire instead of the overscale kit parts.



I wasn't happy with the way the tools were sitting on the treadplate which gave a floating effect so I used a motor tool burr to grind away the raised sections of tread where the tools locate.



On to the front hull hatches and I reworked the hatch lock as the bar was slightly overscale and was missing the mount for the guide loop at the end of the bar.



On the exterior I filled the screw holes in the hinge and added welds around the hinges. The screwheads for the hinge inside the hatch were also deleted.



I drilled out the hinges and inserted 0.7mm brass tube into the hinge. I had to make some adjustments to the hinge tolerances to get them to be fully functional.



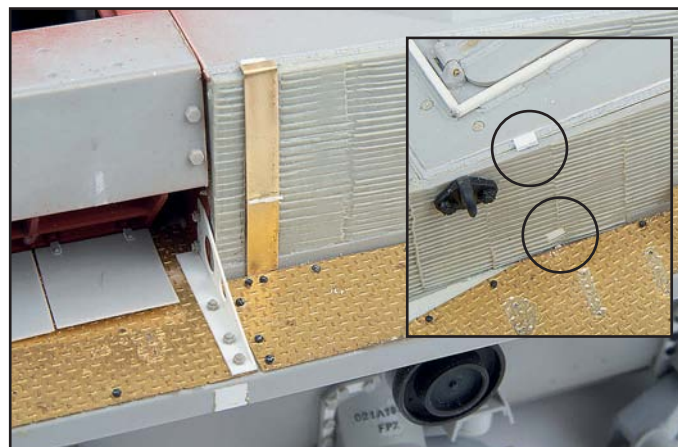
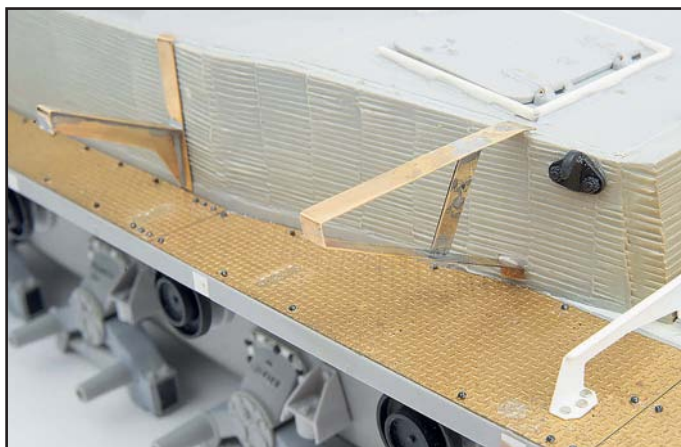
Eventually I did get them to function and I may fix them in the open position after they are painted.



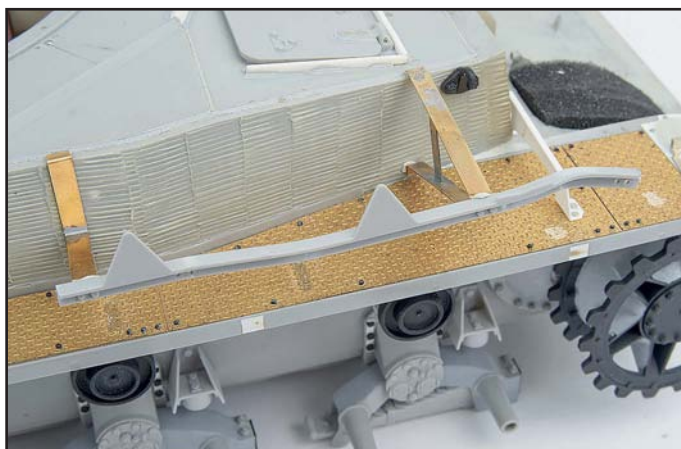
Because the towing brackets are larger than those in the kit the bar between them need to be shortened to fit. After cutting the bar in half I cut away half the depth on each section to form an interlocking joint which was glued and any gaps filled.



Moving onto the Schurzen rails now and my subject vehicle only has a small section of the rails remaining, the rest having been cut away or unbolted. Much as I hoped to use the kit parts they are just too thick so I made my own from 0.23mm thick brass strip which was soldered together, not without some difficulty.



I used plastic card to make the mounting points on the top and sides of the hull and glued the brackets into place using 5 minute epoxy. I needed to cut back the wrap-around top edge of the bracket to enable the hull roof to lift off and the other half of the bracket will be glued to the hull roof.



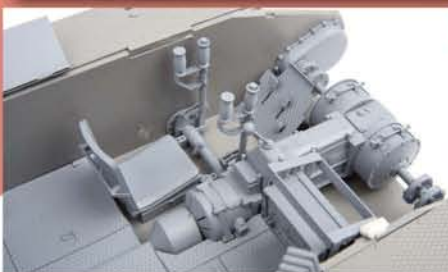
The small section of rail was cut from the kit parts and given a torch cut finish on each end. I used heat to help bend the rail to replicate the appearance in the archive photos.

The project continues in the next Issue

NEW
1:16
PANZER I

DESIGNED FOR THE TAKOM KIT

- INTERIOR SETS
(Ausf.A and B)
- TURRET INTERIOR



1:16
NEW

SEE THE FULL RANGE AT WWW.AFVMODELLER.COM

EXCLUSIVE
3D PRINTED
UPGRADES
IN STUNNING
DETAIL!



WE ARE ALSO
THE EXCLUSIVE
UK STOCKISTS

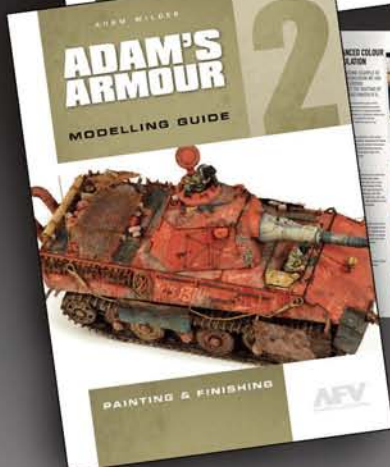
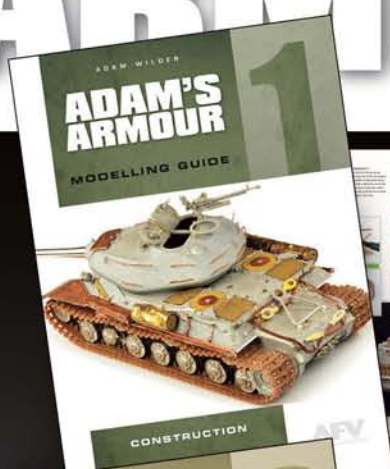
TREX

3D PRINTED
DETAIL & TRACKS

ADAM'S ARMOUR

ADAM WILDER'S
DEFINITIVE
ARMOUR MODELLING
GUIDES

BACK BY
POPULAR DEMAND
**LIMITED REPRINT
IN STOCK NOW!**



VOLUME 1- CONSTRUCTION



VOLUME 2- PAINTING & FINISHING

WWW.AFVMODELLER.COM

AFV
modeller publications

Subscribe NOW!

AFV modeller



Receive **AFV Modeller** direct to your doorstep or Subscribe to the digital version with **Pocket Mags**



<https://pocketmags.com>



Printed Subscription to AFV Modeller

UK	6 months £22	1 year £39	2 years £74	3 years £107
EU	6 months £28	1 year £50	2 years £95	3 years £140
RoW	6 months £33	1 year £60	2 years £112	3 years £160

go to **www.afvmodeller.com** then click onto **shop** and **register/login**, then go to **magazine subscriptions**

We can still accept UK cheques. Made payable to AFV Modeller Limited

Your details BLOCK CAPITALS PLEASE

Name

Post/Zip Code.....

Address

Country

.....

Phone

.....

E-mail

Please return to: AFV Modeller, Old Stables, East Moor, Stannington, Morpeth, Northumberland, NE61 6ES, UK

Orphaned to Exile

Bernard Bassous

continues to explore creative
diorama presentation



1:35



Interceptor of the Skies

German/Austrian border, April 1945

My latest diorama is the first among my new series of the "Elevated Diorama" Concept.

This new series will be framed in a way to enable wall hanging, like a traditional painting or picture. This new design is a space saver projecting the diorama from the wall, bursting the scene into life from a black background. These new designs will also give the diorama more visual elevation, and intensifies the artistic approach to the whole scene.

Further projects will evolve to more complex designs and scenery giving the concept new horizons. I hope you enjoy the process and find some inspiration or ideas.

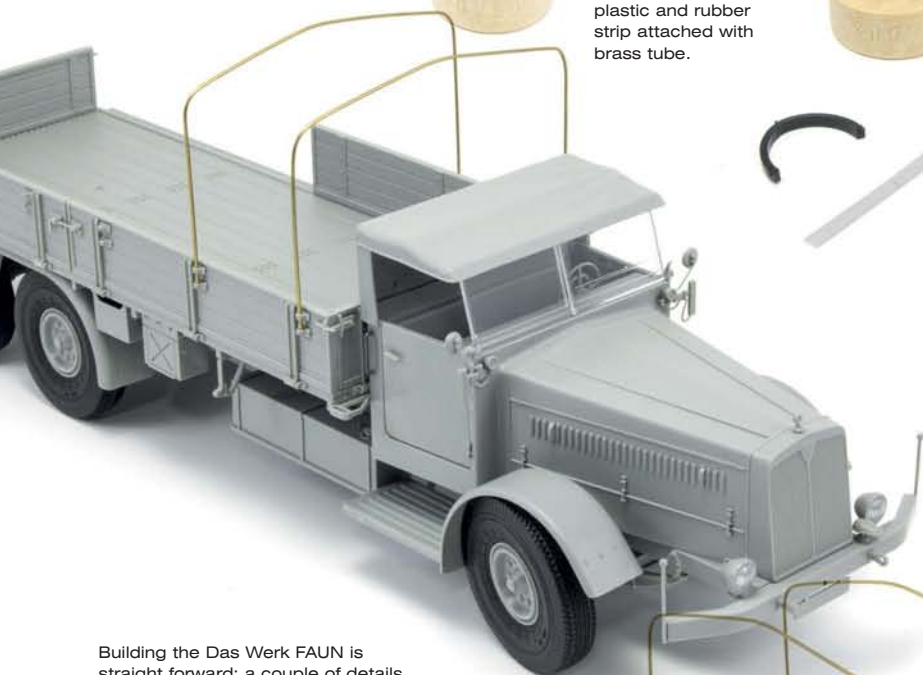


The Dragon MG 151 20mm Drilling is a nice model, adding the Voyager PE set makes it super-detailed, notably the ammo racks.

I scratch built the rear shoulder braces from plastic and rubber strip attached with brass tube.

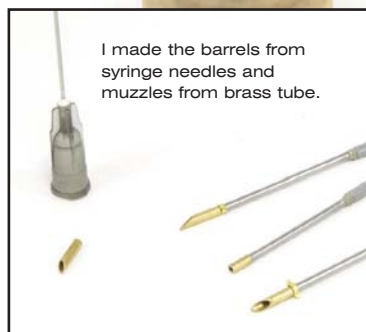


Ammo belts were put in hot water for a couple of minutes then bent gently into place using tweezers.

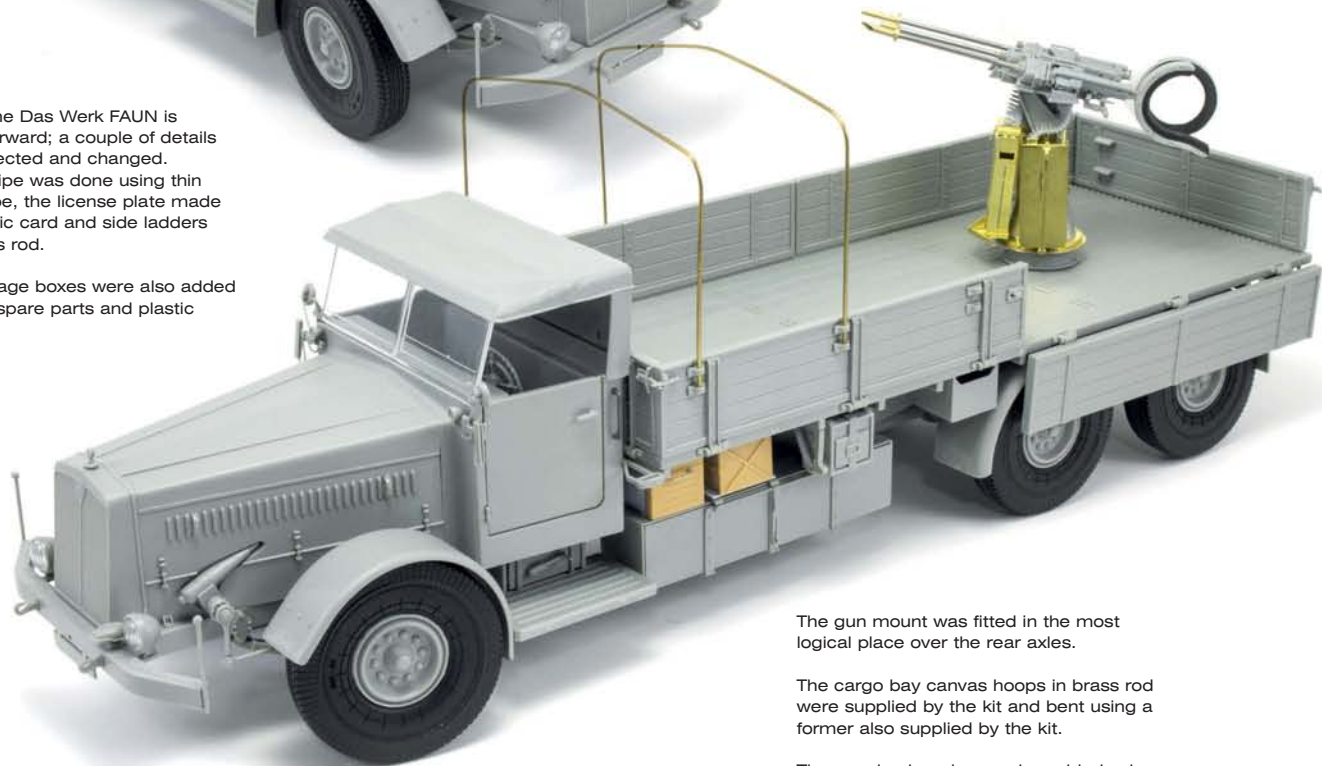


Building the Das Werk FAUN is straight forward; a couple of details were corrected and changed. Exhaust pipe was done using thin plastic tube, the license plate made from plastic card and side ladders from brass rod.

Side storage boxes were also added using old spare parts and plastic card.



I made the barrels from syringe needles and muzzles from brass tube.

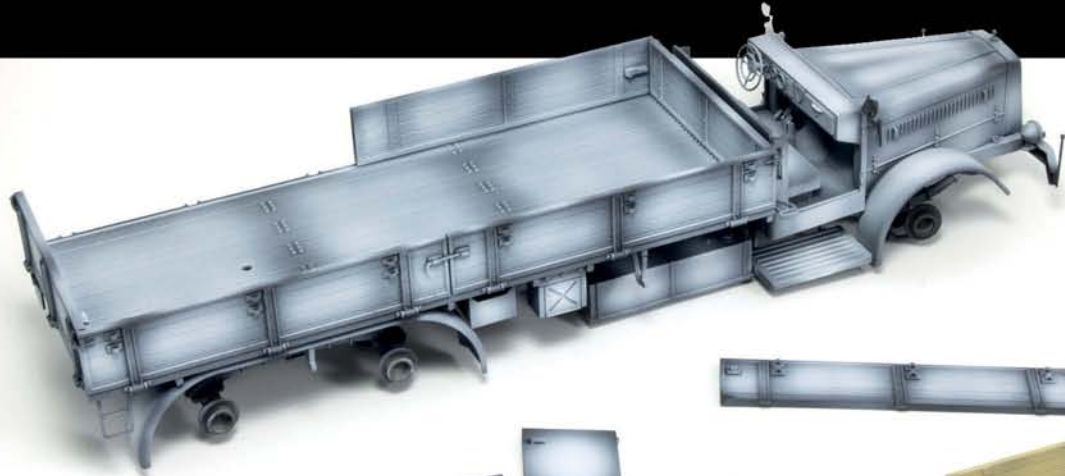


The gun mount was fitted in the most logical place over the rear axles.

The cargo bay canvas hoops in brass rod were supplied by the kit and bent using a former also supplied by the kit.

The wooden bench was also added using 1.5mm thick wood.





Primer and pre-shading was the first stage of painting. I use acrylics as a base for my primer stage. German dark yellow was applied next, there are a lot of choices from many brands but I usually mix my colours always using acrylics to airbrush. I also highlighted the base colour to add some modulation to it. I do that by adding white to the base colour.

Now for the camouflage colours; again, I mix my own colours and using Panzer Putty I apply the pattern and airbrush the colour in several layers. Also using the base colour I lighten it with white and highlight some areas to make the color scheme more alive and artistic.



All raised areas were painted with a much lightened colour of the respective mix highlighting the detail and adding depth.



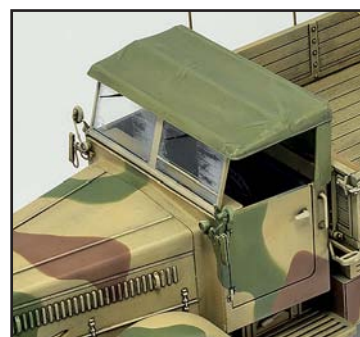
Using Tamiya Mark Fit, all decals were added to the model. I let it dry for three hours then airbrushed a satin coat all over the model to seal everything before 24 hours drying time.



Now time for filters. I use oil paint diluted in odorless thinner with a ratio of 20% colour to 70% thinner and give the model a thin layer or two.



After letting it dry for 24 hours, I do a pin wash in all the crevices, nooks, and crannies. This creates further depth around all raised details; I also use oil paint and odorless thinner in a 40 % to 60% ratio.



The front window was weathered using matt varnish dabbed on the clear plastic and wiped clean using alcohol across the wiper-arm sweep.



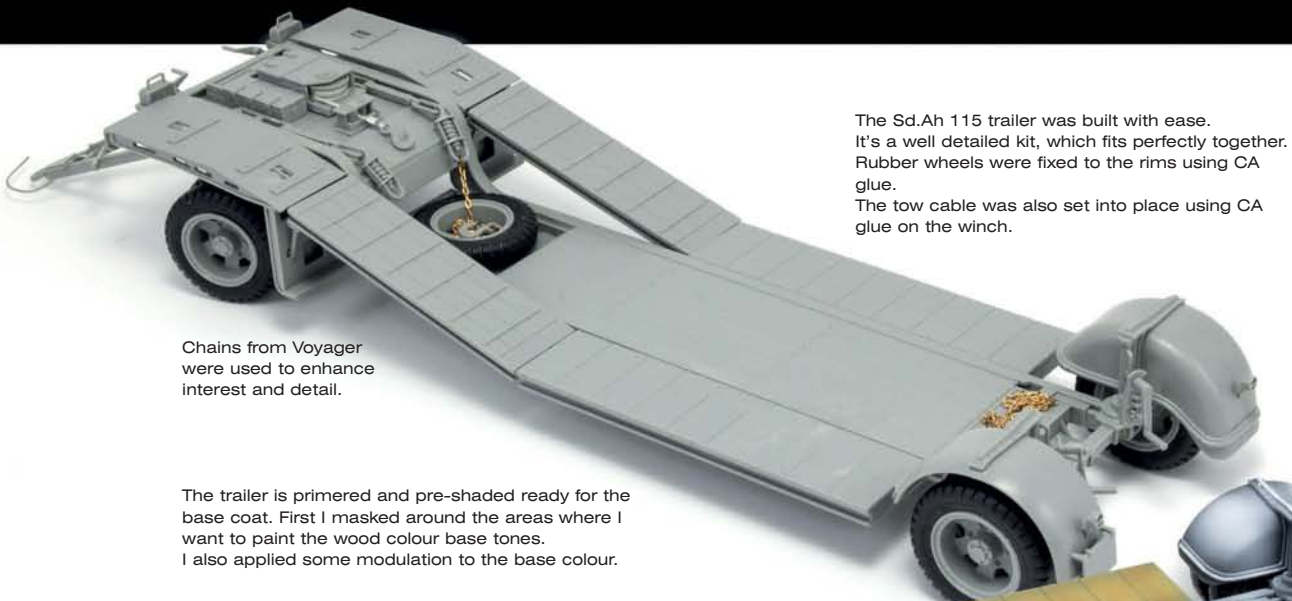
Weathering the wheels was done using odorless thinner and pigments. For extra weathering I used enamels and oils thinned and applied randomly using various brush strokes, dabbing and streaking.

The Drilling, motorcycle, Goliath, and rest of the accessories were painted using acrylics, and weathered as the FAUN techniques.



The camouflage net was done using Verlinden's German camo net and strips of soft cloth glued on using PVA glue.





Chains from Voyager were used to enhance interest and detail.

The trailer is primed and pre-shaded ready for the base coat. First I masked around the areas where I want to paint the wood colour base tones. I also applied some modulation to the base colour.



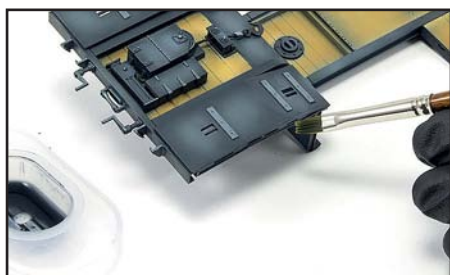
All wood areas are masked and the base German grey colour was applied. With a thin brush I lighten the base grey with white and highlight all the raised areas and details.



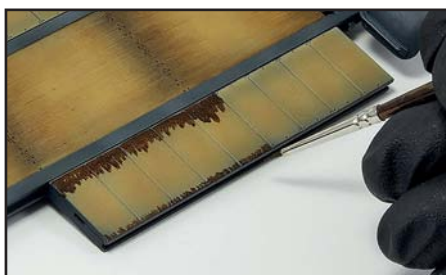
Gloss coat is added, and then I apply the decals, again using Tamiya mark fit.



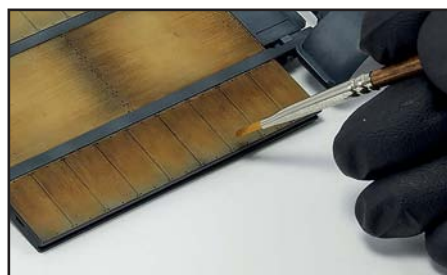
A satin coat is again airbrushed overall as a sealer. The '46 Paper Panzer style of subjects allow some



Using oils and odorless thinner I do a filter using blue, black, light grey, and a bit of white to create the subtle tones.



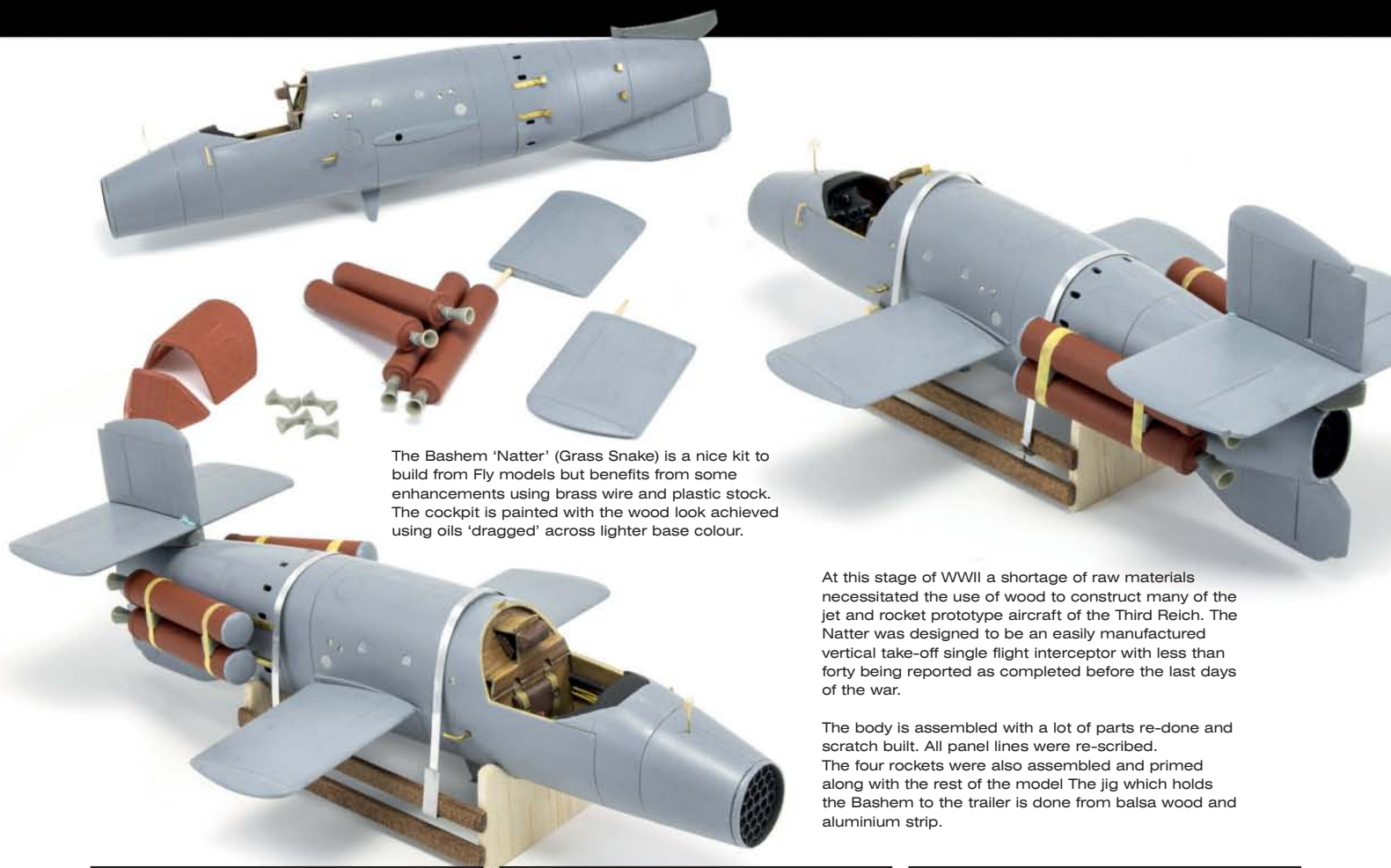
To shade and weather the trailer bed Burnt Umber oil paint was brushed along edges. Using a wider brush this was blended using odorless thinner.



Using pigments and thinner, layers of dirt were built up on the bed of the trailer. I used 'fuel stains' and 'fresh oil' weathering products to simulate oil stains on deck.

A dark pin wash helps pick-out the wood-grain and fastener detail.





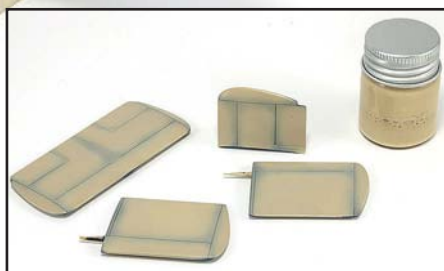
The Bashem 'Natter' (Grass Snake) is a nice kit to build from Fly models but benefits from some enhancements using brass wire and plastic stock. The cockpit is painted with the wood look achieved using oils 'dragged' across lighter base colour.

At this stage of WWII a shortage of raw materials necessitated the use of wood to construct many of the jet and rocket prototype aircraft of the Third Reich. The Natter was designed to be an easily manufactured vertical take-off single flight interceptor with less than forty being reported as completed before the last days of the war.

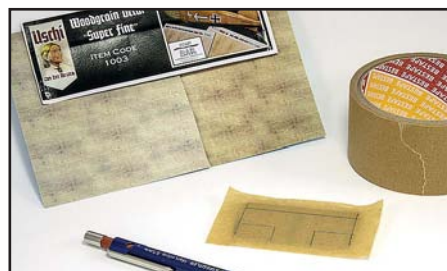
The body is assembled with a lot of parts re-done and scratch built. All panel lines were re-scribed. The four rockets were also assembled and primed along with the rest of the model. The jig which holds the Bashem to the trailer is done from balsa wood and aluminium strip.



All parts are primed and pre-shaded, ready for the main colours.



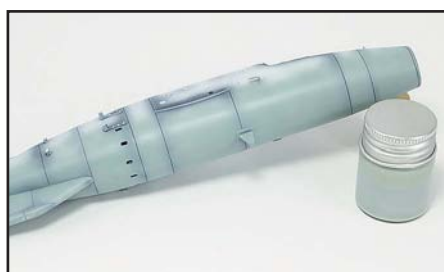
Preparing the wings for Uschi's wood decals. First the base light brown colour is applied in thin layers.



Using masking tape, I draw the desired part shapes. I transfer the mask stencil to the decal sheet and trim out the shape.



Using again Tamiya's mark fit, I place the decals using various wood grains adds to the interest. Uschi's decals are perfect for the job.



The underside blue/grey colour was applied first; it's also a mix acrylic colour done 'by eye'.



I prepare the body for my camouflage colours. I used masking tape for the hard-edged design I'd decided on.



I used Tamiya light green, flat yellow, and nato green to create the green tone. Using the base colour, I added white and do some highlights and tone to define the panels. I used Tamiya olive drab, NATO black, and NATO brown to create the dark brown. Also some modulation is added to the dark brown colour.



Using also thin masking tape the red fuselage band is layed in position and airbrushed with Tamiya X-7.



Again with a thin brush I highlight all details with the respective colour lightened with a little white.



After decals are set a Gloss coat was applied and allowed to dry for at least 24 hours before weathering.



A dark brown wash is done, again with heavily thinned oil colour.



A black oil wash is used in certain areas to further enhance details such as panel lines.



The rocket bodies are first given an overall coat of black followed by a bright silver. AK's excellent 'True Metal' pastes are applied and buffed for the final metallic sheen.

The Natter is finished and fixed to the cradle which in turn is chained to the trailer. The canvas cover (added later) is made from Tamiya two-part putty, rolled thin into a sheet.



The Natter is a perfect fit and such an interesting load for the trailer with it's various surface finishes.





Now to start with the basic shape of the rock face and tunnel entrance. I used blue insulation foam to create the basis of the layout.
To do the middle section of the bunker pillbox I used empty tape cores wrapped with a thick cork sheet glued in place.

As for the entrance, I used blue foam clad with a thin cork sheet. The top and bottom part of the bunker pillbox are made using plaster mould.





I use wall filler and start to make the rock face texture using a wide brush.



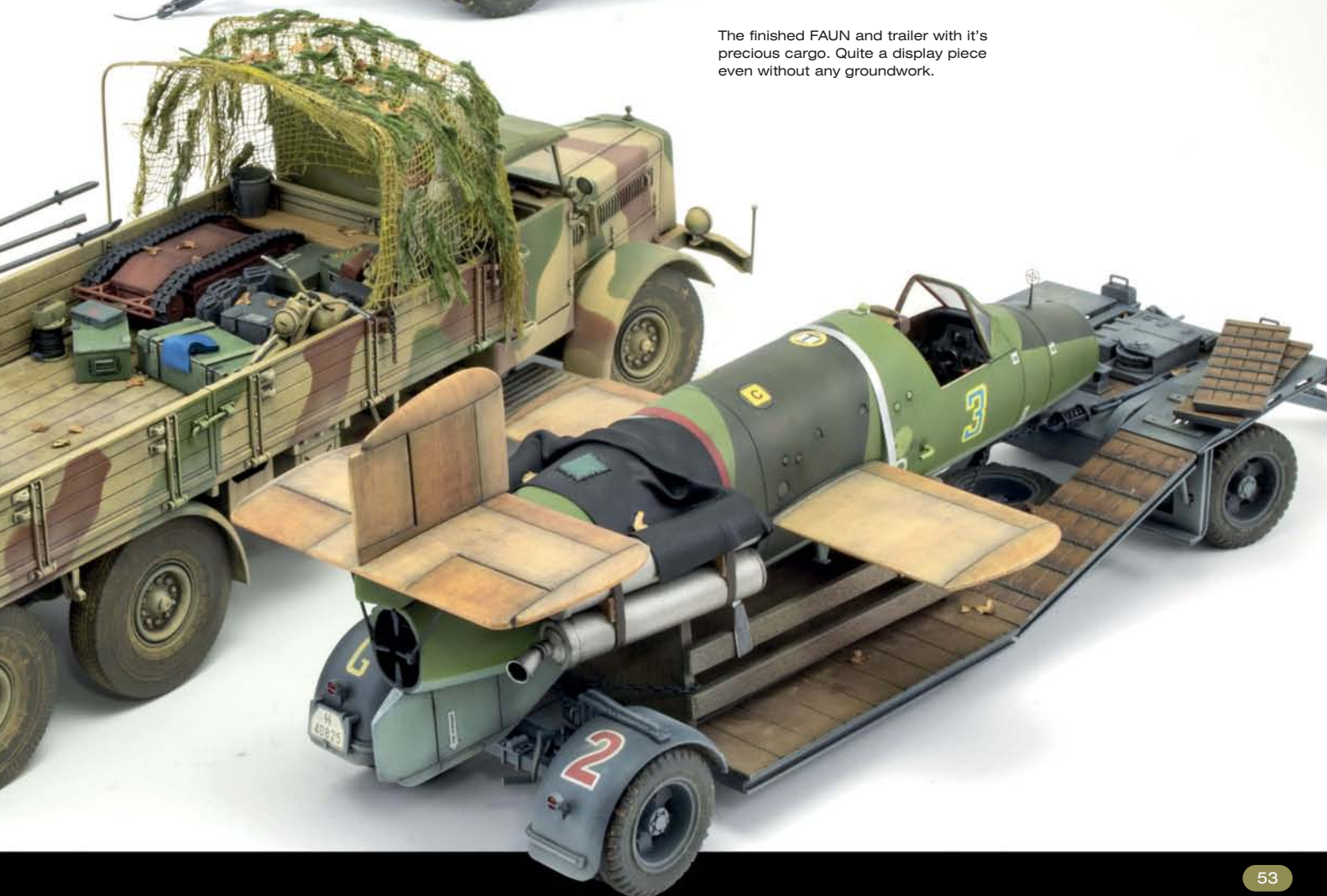
Everything is assembled to determine the final measurements.



The front wall is made from small pieces of cork sheet and glued to place.



The finished FAUN and trailer with it's precious cargo. Quite a display piece even without any groundwork.





The tunnel entrance plinth and wall were also faced with cork sheets. Small pebbles were set in the middle of the walkway using diluted PVA glue.



Using wall filler I added the pointing between the stones. With a wet sponge the excess is easily wiped clean.



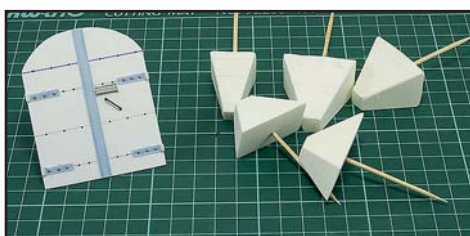
The whole setting is primed and pre-shaded.



Using diluted acrylic colours the tones of the rock face are slowly built.



Using a darker diluted brown depth and contrast is created



The main bunker door is scratch built from plastic card, as for the 'Dragon's teeth' blocks they are from Vallejo's range of resin accessories.



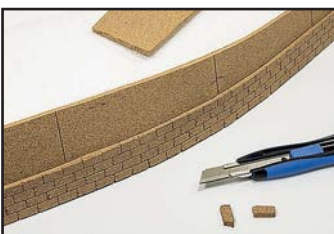
Base colours are applied and decals placed to add a little extra interest.



the accessories were weathered using enamels and oils, sealed in a matt coat varnish.



The base foam was cut to shape with again thick cork sheets used to simulate a concrete wall and stone wall.



It also gets a coat of wall filler squeezed between the rocks, and smoothed out using a wet sponge.



The same techniques were employed to colour and weather the base wall. Note the prominent streaking and discolouration against the light base colours.



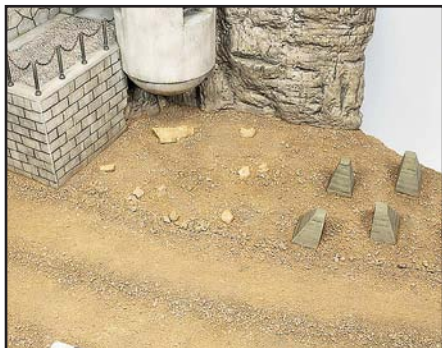
Now for the ground work. I used sand and gravel set in place using diluted PVA glue.



I airbrushed the ground and road with three shades of desert yellow and earth colours.



A dark oil colour wash adds depth to the textures and detail.



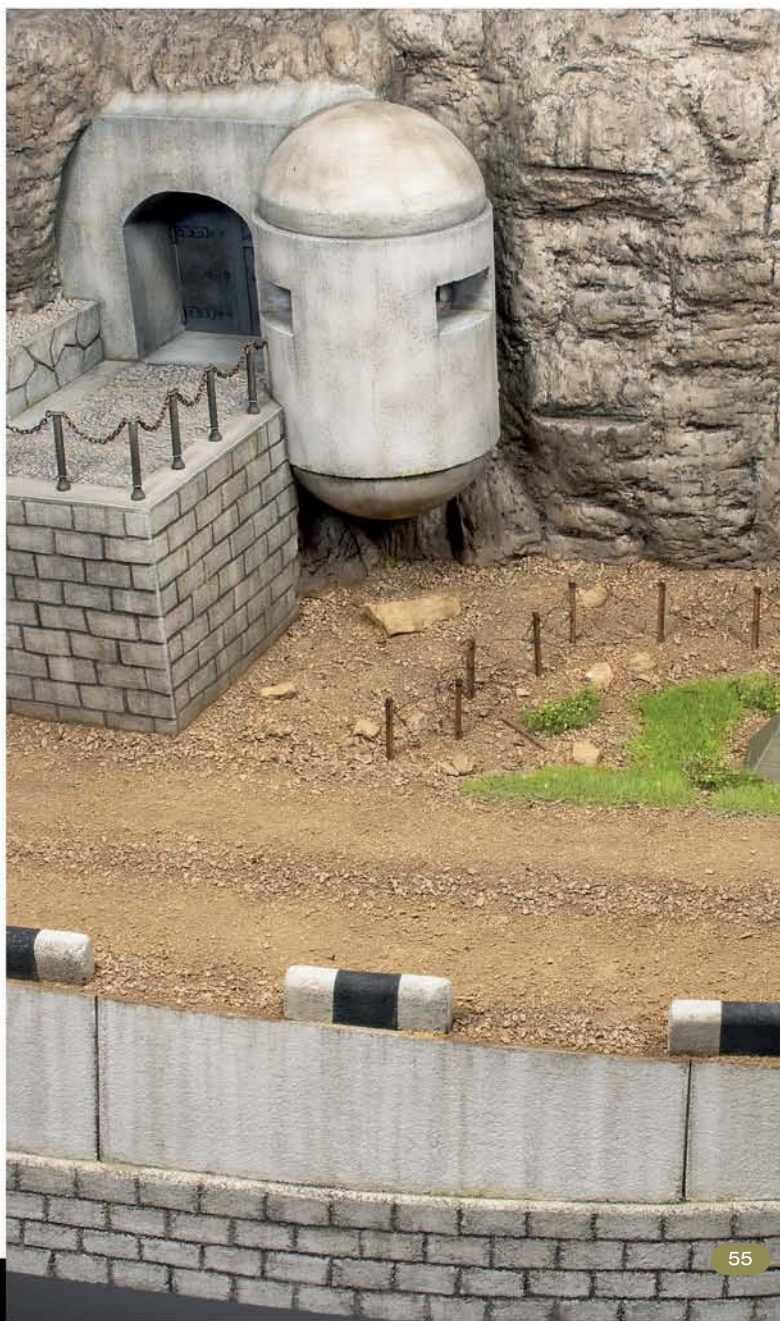
After 24 hours left to dry I dry-brushed the details using light enamel colours.



Using a static-grass applicator patches of grass were added. Used widely by railway modellers this method gives quick and easy results.



The barbed wire is from a photoetched sheet and the posts simply matchsticks. The grass is given light coats of natural tones by airbrush. Debris, dried leaves, rocks, branches are positioned randomly for a natural appearance and my groundwork was ready to place the vehicles and figures in their final position.









DOUBLE BARREL

HAVE WE GONE MAD? ARE WE ALL AT SEA ?

PIG MODEL'S MK.38 5"/38 U.S. NAVY TWIN GUN MOUNT

We hope you don't mind if we take a little time-out to dip our toe in some salty water? Well, it is a turret

and we were just quite simply 'into' this new release from Pig Model who kindly sent us a pre production test shot to have a play with. If you fancy a break from three part track links and folding tiny pieces of photoetch this simple little kit is a great tonic. We say little, it's actually huge as you'd imagine in 1:35 with some huge parts in comparison to the kits we're used to. Thankfully these all fit together well needing little more than a firm grip and Mr Cement S (or your favourite liquid cement of course) flooded into the joints. For the detail present the moulding is good

but we have essentially a huge armoured box with two equally huge gun barrels protruding ; the guys from Pig Model in Taiwan certainly have a fetish for large calibre if you've seen their range of 1:1 ammunition (remember the '88 shell the Editor featured?). All doors can be posed open but there's no interior detail (now there's an interesting scratch build subject for ship modellers!) the door latches are a fiddle to get into place but all-told there's nothing even a beginner would struggle with, a couple of hours and your turret is ready for the main event, and surely the reason most armour modellers may be enticed by this kit; painting and weathering.

1:35

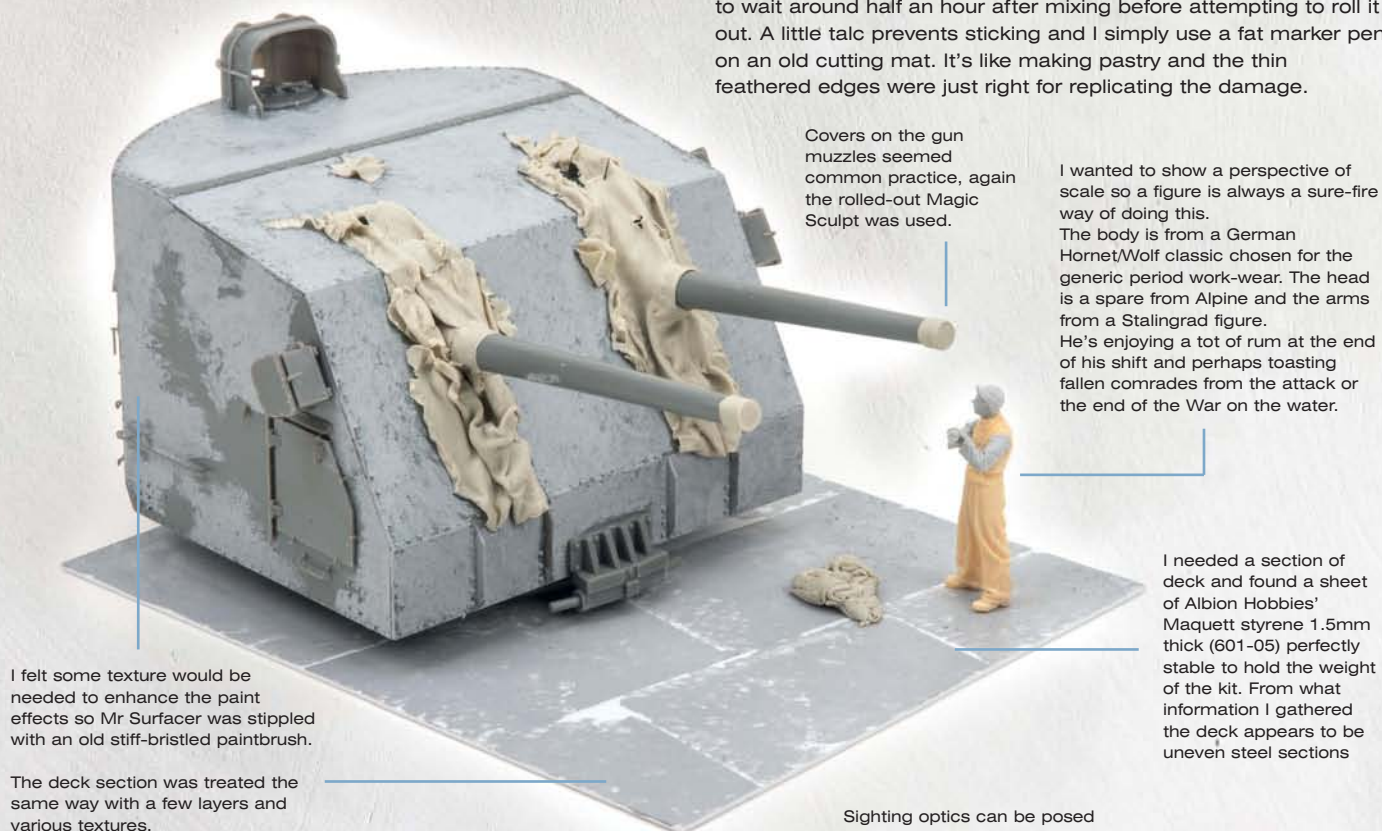


MODELLED BY MARK NAVAL

Not quite yet. I needed some inspiration for some fun with the finish so after several messages back and forth with Chris Meddings (head honcho of Inside The Armour Publications and an accomplished ship modeller amongst many other things) I was intrigued by some photographs of heavily damaged turrets onboard the USS Borie (DD704) which it turns out was the result of the last recorded kamikaze attack on the 9th August 1945, 100 miles East of Tokyo. The bulk of the damage was caused to the bridge and fire control radars behind the guns but the few photos show significant damage to the surface of the guns and blast bags of the mantlet openings. This feature had to be created from

scratch and it certainly adds to the interest and the story of the scene. As I wanted to go over-the-top with weathering I've gone for a time-line of post WWII, pre-repair where rust is beginning to set into the scorched paint surfaces and everything is looking worse for wear. Interestingly the 'Sumner Class' USS Borie was eventually returned to service and later in her life was sold to Argentina and served as an escort to the Belgrano during the Falklands conflict.

If you've a copy of Davids 'Crew School' you may well have some 'Magic Sculpt' epoxy putty on the workbench. The trick to rolling it into thin sheets as was required here for the tattered blast bags is to wait around half an hour after mixing before attempting to roll it out. A little talc prevents sticking and I simply use a fat marker pen on an old cutting mat. It's like making pastry and the thin feathered edges were just right for replicating the damage.



The kit comes complete with a circular display base if you don't want to produce your own.



So in around the same time as you'd spend assembling a set of kit indie-link track it's time to prime!
Mission Models Grey Primer gives a tough base coat and we can start to see the detail and texture. This is a BIG model and takes some coverage. If you don't have a larger needle airbrush (0.4 / 0.5) an aerosol primer might be the way to go.

Time now to think about the layers of colour which will need to be revealed due to the blast and fire. From what I could gather a red-oxide primer was commonly used but first I laid down some areas of raw steel colour mixed from red-brown, black and a few drops of metallic grey. Once dry this was given a coat of hairspray straight from the can. Half an hour later Mission Models Red Oxide was randomly mottled concentrating on the areas where it would be exposed.



Mission Models' FS Mid Grey was used for the top-coats which was highlighted and faded with their Insignia White. The areas which I wanted to represent peeled paint (due to fire damage) I laid the paint on heavier than usual as I find this allows large areas to be lifted away with the hairspray technique. Other areas of 'regular' weathering had multiple lighter coats airbrushed as we'd normally do allowing lighter wear giving some chipping and flaking and softer wear down to the primer.

Warm water and various worn brushes give different effects when lifting the top-coat, the hairspray acts as an unstable, water-soluble clear barrier. A friend of ours, Phil Stutcinkas, pioneered this technique many years ago and it's a great one to master.



Here a gentle reveal of the primer seems a common sight on active war ships in need of a re-paint. Constant damp and sea water must quickly take it's toll on paint

Weathering should tell a logical story; my idea of a couple of months after the attack allowed good scope for all manners of damage and deterioration.

Note the edge achieved where the paint has peeled showing traces of the primer red also.





The stark contrasts between the grey paint and bare metal now needed to be toned down and harmonised. Oil paint filters are just the trick for this and best built-up gradually. Basically tinted thinner was flooded onto the surface panel by panel (which also helps subtle shifts in colour adding to the interest) and whilst still damp dark pin washes around small details were added with diluted Lamp Black and Burnt Umber oil colours which help lift the detail out. Washes of light buff were flooded around details on the dark bare metal areas. I always work back and forth in a rather haphazard fashion with these processes until I'm pleased with the appearance, these layers upon layers make for an interesting and realistic effect and to be honest I enjoy the process and just keep going!

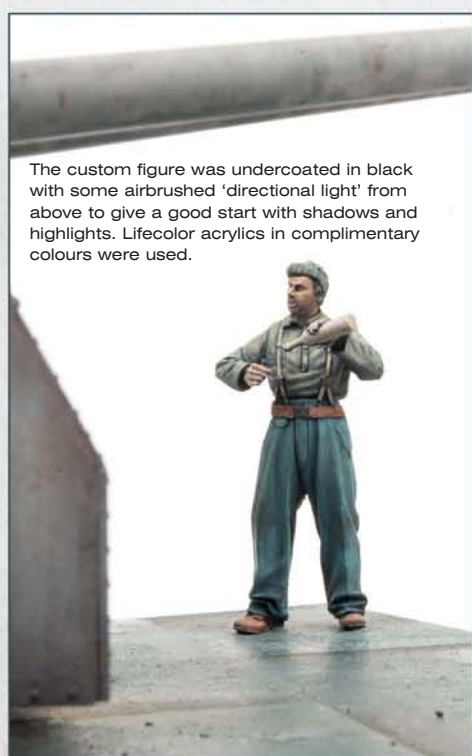
Unlike our usual ground based vehicles we can't rely on mud and dust to add into the mix for realism. Searching on-line throws up plenty of images of these turrets with a common thread of heavy vertical streaking and (in the Pacific Theatre of Operations more so) sun-bleached and 'chalky' areas of paintwork. More thinned oil

colours and a flat brush moist with thinner are the trick dragging top to bottom.

To add to the drama some blast marks were added using Russian Earth Mig pigment powder and something else I'd observed in images of post kamikazie attacks, dark fluid splatters. These were replicated by loading a long-bristled signwriting brush with thinned paint and flicking with a cocktail stick or similar. With everything exposed to the sea air some degree of fresh oxidation would be present for which I've used a bright orange AK Weathering watercolour pencil. To get sharp controlled marks a tapping motion was used with some streaking of these done with a damp fine brush.

Finally a soft pencil was used across edges, steps and handles to give a glint of polished steel.

The blast bags were brush painted with AK Figure colours; German WWI Uniform base color with flesh added for two stages of highlights and dark gray added for shadows.



The custom figure was undercoated in black with some airbrushed 'directional light' from above to give a good start with shadows and highlights. Lifecolor acrylics in complimentary colours were used.



The final process was painting the deck section. A blue/grey seemed to be the most common finish which was brushed and sponged in various tones. Panel definition was exaggerated with paper masks and airbrushing. Salt stains and staining from the turret were added and several wet patches

done with gloss clear acrylic.

I found this kit to be, as I expected, a whole lot of fun. It's a great painting subject if you want to play with some techniques being the perfect, and rather large, blank canvass. Many thanks to Pig Model for our test-shot sample.



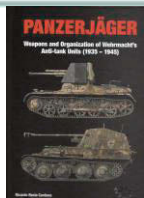


BOOKWORLD

— wholesale —

Bookworld Wholesale Ltd.
Unit 10 Hodfar Road, Sandy Lane Ind Est,
Stourport, Worcs DY13 9GB

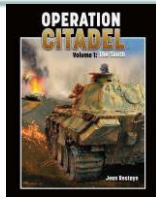
Tel: 01299 823330 Fax: 01299 829970
web: www.bookworldws.co.uk email: info@bookworldws.co.uk



Panzerjäger

This book, which includes several colour profiles and period photographs, is focused on the equipment of the German anti-tank units.

£26.99

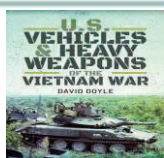


Operation Citadel

Volume 1. The South

702 photographs 48 pages of full-colour profiles of German and Russian vehicles, 3 pages of color tactical insignia employed by the Germans on their vehicles, and 4 full-page, color maps outlining the fighting

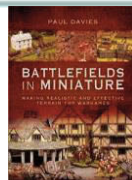
£79.99



U.S. Vehicles and Heavy Weapons of the Vietnam War

This book, the first in a series on the US military's weapons, vehicles, aircraft, and naval vessels of the Vietnam War, offers a highly illustrated reference for this wishing to delve deeper into this conflict.

£25.00



Battlefields in Miniature

The clear, step-by-step instructions are clearly illustrated by numerous specially-taken photographs of the work in progress and Paul's inspirational finished pieces.

£19.99



R093 MUTT A1 in Detail

315 color photos and manual drawings, 108 pages, soft cover paperback

£25.99

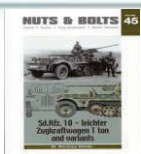


Frituur Zorro

Restorations Volume 3

In this Volume there is more attention for German Projects. Hardback, 180 pages, full colour

£38.99

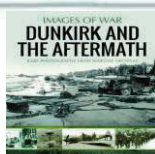


Nuts and Bolts 45

Sd.Kfz. 10 – Leichter Zugkraftwagen 1 Ton and Variants

black & white, and colour photos. Camouflage schemes and tactical markings, plus profile drawings. Plus much more. German & English Language book.

£33.99

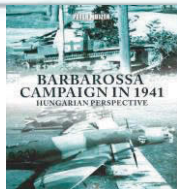


Images of War:

Dunkirk and the Aftermath

It is known that two atrocities took place during the Battle of Dunkirk: the Massacre at Le Paradis, and another at Wormhoudt, carried out by Waffen-SS soldiers

£14.99



Barbarossa

Campaign in 1941

The Barbarossa campaign started 80 years ago, on 22 June 1941, pitting the forces of the Soviet Union against those of the Third Reich and its allies.

£30.99

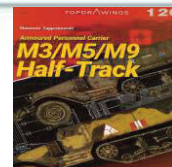


Ostfront Panzers 2

Belorussia 1943-44.

Ostfront Panzers 2 has more than 100 photos, describing the design of vehicles and information about their German units.

£24.99



Top Drawings 120.

Armoured Personnel Carrier M3/M5/M9

Half-Track
Paperback, 20 pages
• drawings sheets
• color profiles

£15.99

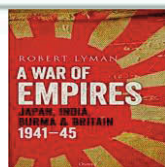


Tanks of the Early

IDF Volume 2

This second volume in the series covers two significant upgrades to the overall firepower available with the Sherman, specifically what became known as the M-1 and the M-50, as well as the newly-developed French AMX-13.

£33.50



A War of Empires

Japan, India, Burma and Britain 1941-45

In 1941 and 1942 the British and Indian Armies were brutally defeated and Japan reigned supreme in its newly conquered territories throughout Asia.

£25.00

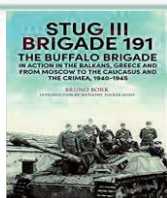


The Long Range

Desert Group in the Aegean

The author, an acknowledged expert on the LRDG uses official sources, both British and German, and individual accounts to piece together the full story of this dramatic, costly but little-known campaign.

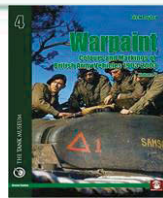
£16.99



Stug III Brigade 191

This illustrated volume tells the tale of Brigade 191, aka the 'Buffalo Brigade', who used the Sturmgeschütz III

£25.00



Warpaint Vol 4.

The book is profusely illustrated with photographs, colour profiles, and detailed drawings.

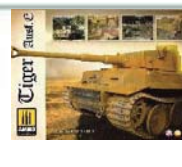
£25.00



Panzergranadier

This groundbreaking book describes the development and evolution of the armoured infantry force that accompanied the German Panzers as they crossed the battlefields of Europe

£30.00



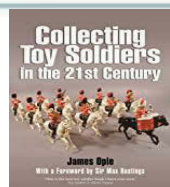
Visual Modelers

Guide 4. Tiger

Ausf E

Complete color guide with information about both the interior and exterior colors used.

£13.99



Collecting Toy Soldiers in the 21st Century

This is a completely new book, so even those many who bought the first one should welcome its appearance, as should anyone with an interest in this fascinating hobby.

£18.99



Military Illustrated Modeller 122. All Roads to Rome

A rebellious Stuart crew might have met their match. 66 Pages

£6.75



DIORAMAG VOL. 10

Step by step articles, painting techniques, building techniques, showcases, news, reviews and much more.

£14.99



AFV Modeller 121. Training Japanese

Paperback
64 pages
Full Colour

£6.95



Tigers - Modelling the Ryefield Family

This comprehensive book defines the different camouflage schemes used at various periods of the war as well as various levels of weathering and winter camouflage

£27.99



British at War

Volume 2

This is the second volume of the two that feature the most iconic vehicles of the British Army in WWII. 184 pages, full colour

£25.99

YOU CAN VISIT OUR WEBSITE: www.bookworldws.co.uk
Stockists of the following subjects: Aviation, Military, Naval, Modelling, Railway, Motoring
Major credit cards accepted, UK cheques payable to Bookworld Wholesale Ltd

£3.25 UK Post Single book value under £30

2 or more books UK £5.50

Overseas Postage please contact us.

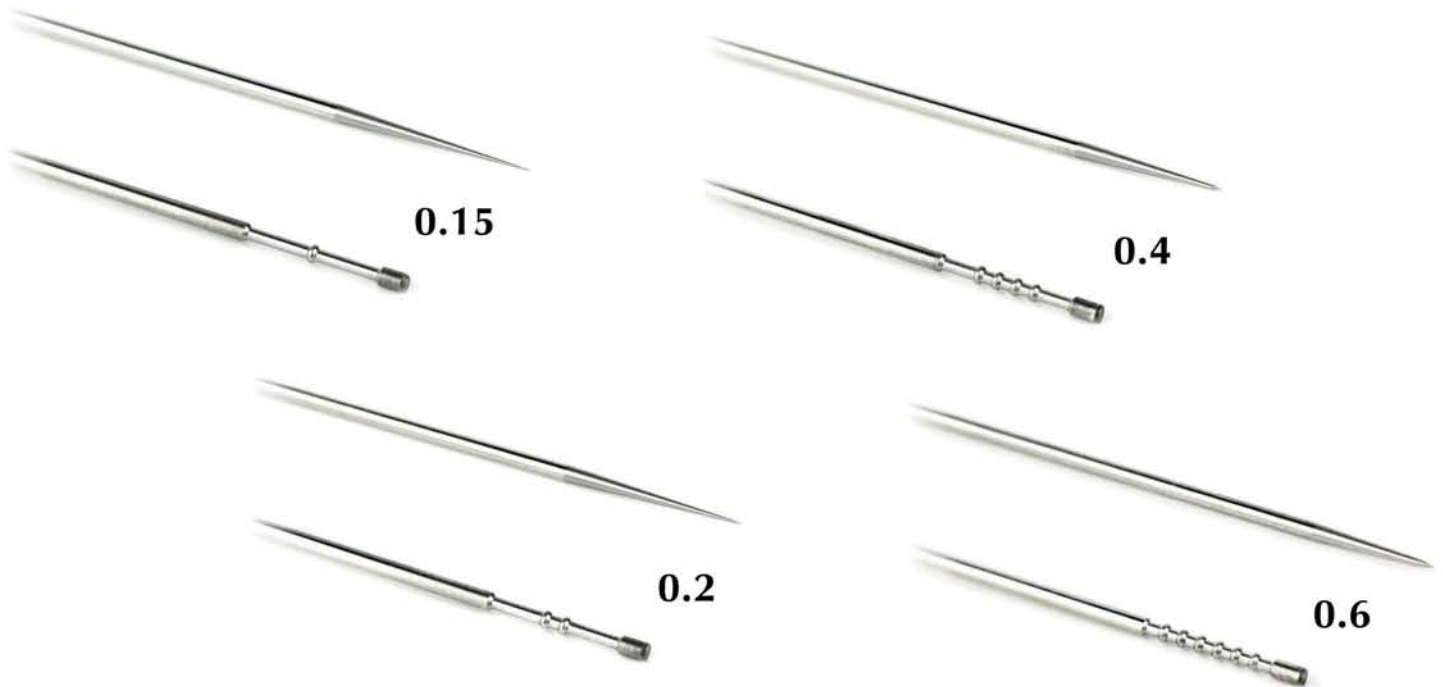
HARDER & STEENBECK

flexible system architecture
#notools



threadless nozzle
#notools

with our new needle design



more detail more control less tip dry harder material

PAINT EASY THE HARDER WAY

www.harder-airbrush.eu

Coming Soon from AFV Modeller

1:16 STUG III



Cupola Armour



Smoke Grenades with a choice of loaded and empty tubes.

10.5cm
STuH42 Barrel
for Box Mantlet

Below 10.5
STuH42
Finned barrel



Topfblende Mantlets



10.5cm
STuH 42
Mantlet



7.5cm STuG
symmetric
Mantlet



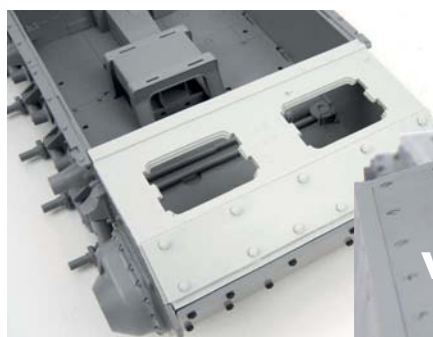
7.5cm STuG
asymmetric Mantlet
suitable for co-ax MG



Remote Control MG (supplied with Photoetched shields)



Late model return rollers
Bow Correction



www.afvmodeller.com

AFV
modeller