

THE VERY BEST IN SCALE ARMOUR MODELLING

AFV

74

ISSUE

modeller

January/February 2014

£6.50 UK \$14.95

www.afvmodeller.com



EAST 17

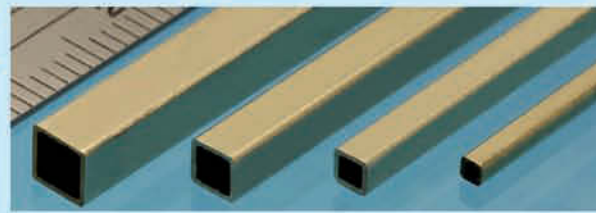
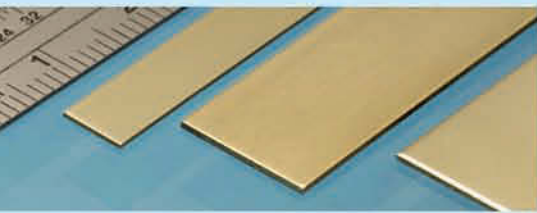
Building the Meng 1:35 Renault FT-17



www.albionalloys.co.uk



Precision construction and finishing materials for the modeller



Model makers, precision engineering companies, TV and film production companies and prototype manufacturers the world over now use our range of metals to create all manner of items.

From scale modelling to avionics, even landing gear on unmanned aerial reconnaissance vehicles, our metals are seen as the product of choice.

Create your own metal stock facility on your workbench – all micro tube and rod is designed to slide fit enabling previously unachievable detail on your next model making project.



Probably the widest range available of precision abrasives for the modeller

The well known and well loved Flex-i-file range is complemented by our range of own brand abrasives and applicators meaning there is a product for every task.

The flex-i-file is unique in enabling the user to sand and finish compound curves. By gripping the aluminium handle you release the tension on the grip band, meaning no more flat-spots on your next project!

Another product designed to aid the modeller is the Touch n Flow applicator. A very clever design that emits just the right amount of solvent and uses capillary action to get the solvent only where required.



Visit www.albionalloys.co.uk for down-loadable PDFs, Youtube links etc. Contact us on sales@albionalloys for details of your nearest dealer

CONTENTS

2	Renault FT-17 The Editor builds the new 1:35 Meng kit of the Renault FT-17 .
8	M-32 B1 Wu Bayin explains the techniques used for his interpretation of the Tasca kit.
16	T-80u Mark Neville test drives the first 1:35 release from new manufacturer Xact Models
24	"In der Falle" Part Two Robert Doepp describes how he built his 1:24 vignette with the Tasca Zündapp KS 750m
30	Scale Model Challenge 2013 Some of the eye-catching entries from this years show.
34	Hell in the Forest Jorge Porto describes his diorama depicting the fighting around Leningrad in 1943
42	Renault R35 Walkaround Details of the French Light tank, this one having been knocked out in combat in Isreal in 1948
46	Keeping Track More new releases
56	ZBL 09 Chinese Snow Leopard Likasz Orczyc-Musialek gets some powerful pixels on the 1:35 Hobby Boss kit

**Seasonal good wishes to all our readers
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
email: david@afvmodeller.com
Editor and Designer: David Parker
Deputy Editor: Mark Neville
Sales Director: Keith Smith

ISSN 1747-4183



We are now on Facebook, 'Like' us to follow what we are doing and follow our build projects.

AFV Modeller welcomes contributions from interested parties, but cannot accept any responsibility for unsolicited material.

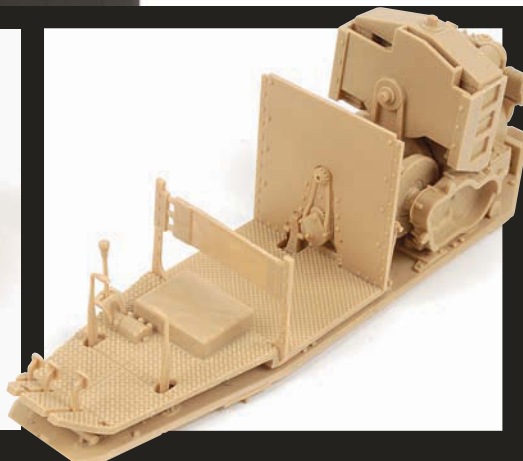
The contents of this publication including all articles, drawings and photographs originated by AFV Modeller Ltd become the publishers copyright under copyright law. Reproduction in any form requires the written consent of the publisher. Whilst every care is taken to avoid mistakes AFV Modeller Ltd.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

RENAULT FT-17



**The Meng 1:35 Renault FT-17
modelled by David Parker**

A high quality modern kit of the iconic little Renault FT-17 has been long overdue and Meng have taken up the challenge with all thier usual skill and flair. Impressively this tiny vehicle comes with a fully detailed interior and optional parts to build WWI or WWII vehicles with a choice of three different weapons and the appropriate ammunition stowage. The moulding quality is exceptional with tiny casting numbers reproduced and with individual link tracks and photoetched parts included it really is all in the box and I couldn't wait to get started on the little fella.





Assembly is very straight forward and once you start assembling the engine you find there are various pins and location tabs which have been cleverly designed to prevent you from locating anything incorrectly and it all fits exactly. This is good as the tolerances for the internal parts are quite tight as you would expect for such a small vehicle. I assembled the engine and the majority of the hull interior but I decided that I would model the FT in action with everything closed up so I did not proceed any further with the internals. I was pleased to see that along with the different choices of weapons there is the corresponding ammunition stowage too. For the cannon that I mounted there are the tiny shells, moulded in position in the hull racks but also supplied individually. If you do want to show off the interior Meng have done an excellent job in replicating it and aside from some wiring details it can be built from the box.

The hull is assembled from flat plates with bevelled edges on the interlocks and of course you need to take care to keep everything aligned correctly. Care is also required for the small panels either side of the Driver's visor and I did end up with a slight gap on one side which I camouflaged with a smear of filler. The tail skid is superbly replicated and has the optional WW2 tow



hook fittings. The running gear is another marvel of kit design and there is a choice of Idler wheels. The kit provides metal springs but they are too thin and widely spaced when compared to the real vehicle so I replaced the ones on the return roller assembly with my own. The inner springs are hardly visible so I used the kit springs here. Remember not to glue parts C11 and C12 as these need to remain loose until final assembly and I would recommend leaving both running gear assemblies separate from the rest of the hull. The individual link tacks are designed to clip together but I found that the tiny pips to secure the links would shear off under the pressure of connecting the links so I used some fine nosed pliers to help splay the central ribs of each link which prevented the pips from breaking.

Painting

I had decided to model a WW1 vehicle and found a colour profile in Steel Masters Magazine to use as a basis for my model. I began by spraying the whole model in Lifecolor UA144 'French Sandgrey' and after some consideration I decided that it would be easier to brush paint the camouflage rather than spend ages with complicated masking. I used Lifecolor UA143 'French Brown' and UA245 'Moss Green' and the pale green is one I mixed myself. It took a couple of coats to get a solid coverage but I was then ready to hand paint the numbers on both sides of the hull. Before proceeding I sealed everything with a coat of satin varnish. I haven't used enamels for some time but decided to use Humbrol 72 to overspray some mud effects over the lower hull and running



Below right Pin washes were applied with first oil paints and then acrylics. Very pale dirt colours were used to define the details over the darker colours but over the sand base colour I used a mid brown to define the detail.



Left The model seen after a dusting with Humbrol 72. **Right** Thinners were used to partially remove the enamel with a brush to give a patchy finish.



The tracks were sprayed with a dark brown/black acrylic and given a wash of Humbrol 72. The raised runners were painted with Mr Metal color Stainless and gently polished.



A pastel slurry was applied to the the tracks and then brushed off with a paintbrush to give an ingrained look.



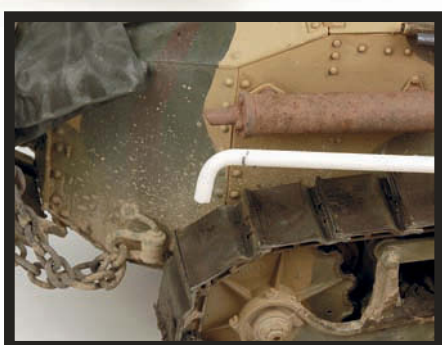
The tracks can finally be fitted to the bogies - it is a tight fit so make sure that all the road wheels and idler wheels are sitting inside the runners or your tracks wont quite join.



Pastel pigments were used to splash areas of dry and wet mud along the lower edges of the hull.

gear. I then worked over this almost immediately with a brush and thinners to begin lifting off the enamels giving a streaky, patchy finish. Things were all a bit sticky when this was complete so I left the model to thoroughly dry. This was followed by several pin washes of oils and acrylics to define the details and replicate the build up of ingrained dirt.

I used a wash of powdered pastel chalk mixed with white spirits to add dried dirt to both the tracks and the lower hull and this was also used to spatter splashes of mud. A darker mix of chalks was used to add areas of damp mud along the lower hull and then to build up a deposit of mud along the horizontal parts of the suspension. I also mixed some matt varnish into this pastel slurry to give better adhesion and this was used to coat the outside face of the tracks.



In many of the archive pictures I had found the FT crews had used the top of the tail skid as a stowage rack with tarpaulins and other material piled up and of course the characteristic tow chain also mixed in. I decided to replicate this using rolled out sheets of Magic Sculp which were folded and draped over the skid and the creases added with rubber tipped brushes. I also added a small rolled bundle to the mounting bracket for the missing tool box.

The chain is not provided in the kit but is an AK interactive product which is pre-rusted. I didn't like the rusty finish so I repainted the chain and used AK Interactive Gravel and Sand Fixer to hold the chain in position. The underside of the skid was given a worn finish by painting dark brown scrapes and then going over these with a soft pencil to give a bare metal finish.

As the model neared completion I spotted an error with the exhaust pipe which is straight but should be curved down so I made a new pipe from plastic rod and added the exhaust staining on the hull side which is visible in archive pictures of the real vehicle. The nose in the air stance is another feature of many of the archive pictures so I decided to try and recreate a feel of this with a simple angled base made from expanded polystyrene. I





Before fitting the running gear I added some further damp mud effect along the bottom of the hull.



As a further individual touch I added a pair of wooden poles into the tool stowage racks.

created a rough earth wall effect over a coat of plaster by adding different grades of sand and grit and the patchy grass was created with Sisa Moss. The ground work was sprayed with Lifecolor UA913 'North Europe Dark Mud' and the dead winter grass was picked out in muted greens and browns.

With the model complete I have to say that this has been one of those trouble-free kits where everything fits, the detail is stunning and it just leaves the modeller to try to match the high standards of the kit with his paint finish. The only issue I found was the exhaust pipe but with the complete choice of weapons and sensible use of photoetch make this a brilliant kit and worthy replica of the little Renault.

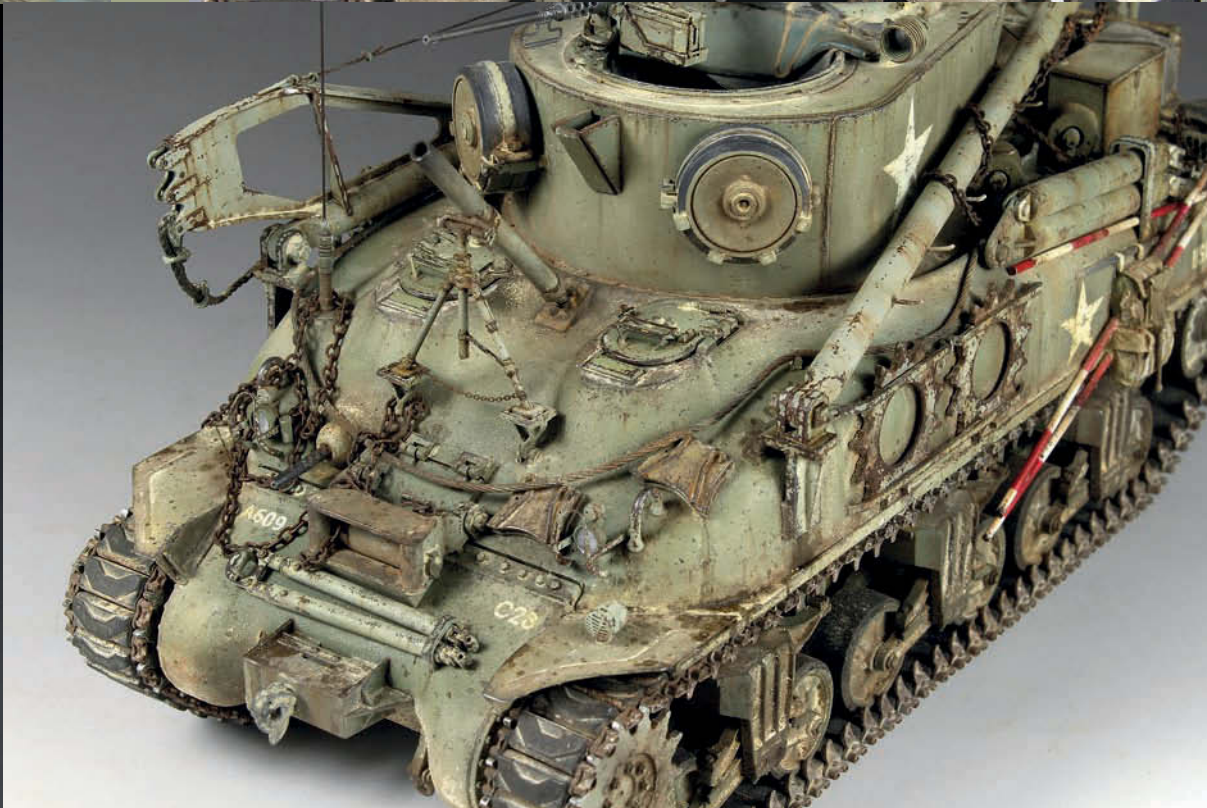


M32 B1

Wu Bayin offers us some roadside assistance with weathering Tasca's heavy recovery vehicle



Tasca 1:35



Military Engineering vehicles have always been one of my favourite subjects, for one reason, that they combines both the characteristics of armour and engineering vehicles. It couldn't be cooler than to build some heavy steel and complex machinery structures at the same time!

The successor to the M3 Lee-based M31 tank recovery vehicle was the M32, The first variant, the M32B1, which was built on the early M4A1 cast hull, is a true beauty, and it is also one of my dream subjects.

THE KIT

I believe that most of you have already read dozens of reviews of this stunning kit. So I'm not going to repeat the Basic information "again", just explain some of the most important features that Tasca has brought to us. 5 new sprues are included in

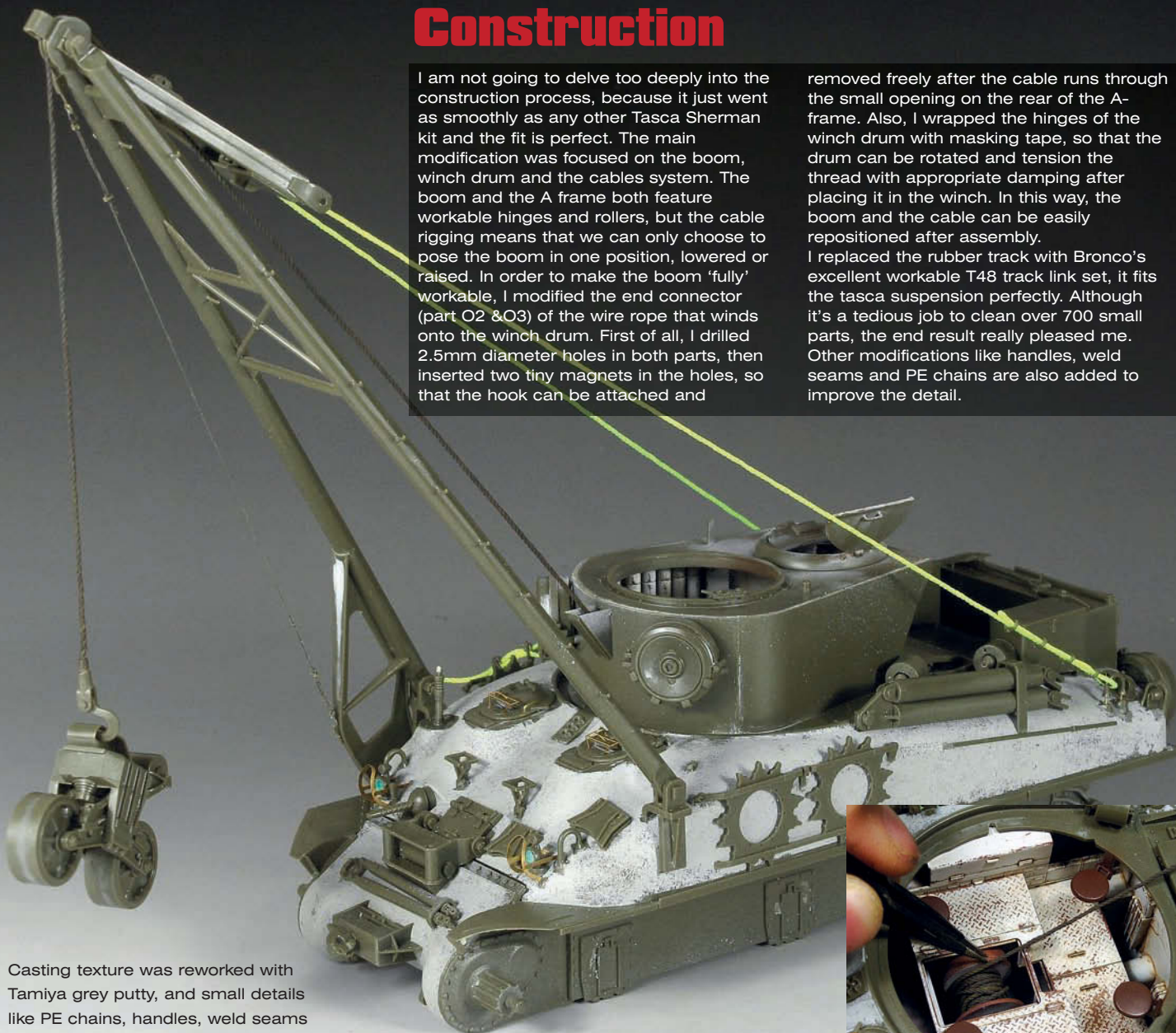
the box, they contain the newly tooled sub-assembly turret, the main boom, the A-frame, interiors, tool boxes and some unique hull fittings. The details are top quality and correctly based on the early M4A1 cast hull and VVSS suspension. The kit contains nearly 400 new parts, including some of the finest details I've ever seen on an plastic model, over 20 more steps on the construction guide, so read the instruction booklet carefully and be patient when building this kit. Thanks to Tasca and their efforts with this complex and ambitious model, I can finally forget my old, inaccurate Italeri M32 and all those annoying resin conversions. It's time to enjoy some serious details and accuracy.

Construction

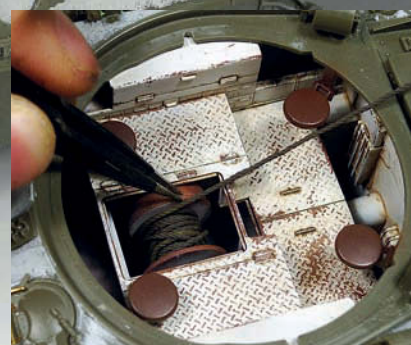
I am not going to delve too deeply into the construction process, because it just went as smoothly as any other Tasca Sherman kit and the fit is perfect. The main modification was focused on the boom, winch drum and the cables system. The boom and the A frame both feature workable hinges and rollers, but the cable rigging means that we can only choose to pose the boom in one position, lowered or raised. In order to make the boom 'fully' workable, I modified the end connector (part O2 & O3) of the wire rope that winds onto the winch drum. First of all, I drilled 2.5mm diameter holes in both parts, then inserted two tiny magnets in the holes, so that the hook can be attached and

removed freely after the cable runs through the small opening on the rear of the A-frame. Also, I wrapped the hinges of the winch drum with masking tape, so that the drum can be rotated and tension the thread with appropriate damping after placing it in the winch. In this way, the boom and the cable can be easily repositioned after assembly.

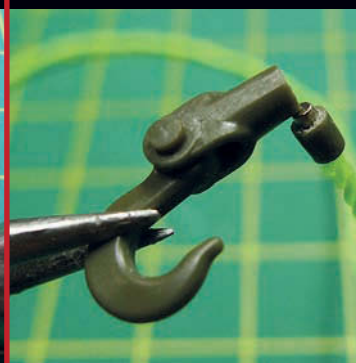
I replaced the rubber track with Bronco's excellent workable T48 track link set, it fits the tasca suspension perfectly. Although it's a tedious job to clean over 700 small parts, the end result really pleased me. Other modifications like handles, weld seams and PE chains are also added to improve the detail.



Casting texture was reworked with Tamiya grey putty, and small details like PE chains, handles, weld seams on the turret and wire rope are also added according to reference pictures.



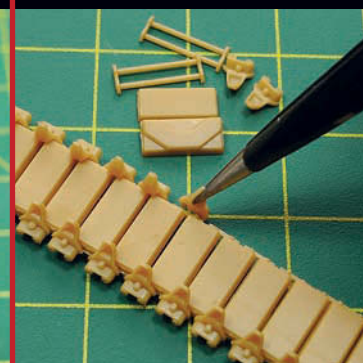
Hatches has been modified to be workable with a drill and some wire



I drilled 2.5mm holes in part O2 and O3, then inserted two tiny magnets on both sides, in this way, the hook can be attached and removed easily after the end connector runs through the small gate as shown. The wire rope can now be adjusted to match the boom whenever



raised or lowered. (the glued O2&O3 parts cannot run through that gate, and as the rope must move with the boom, it means then we can only pose the boom in one position).



The T48 track set is from Bronco models, with great details and the perfect fit, each track need 83 links. Tedious work to clean up, but once finished, they look great.

Tired Olive Drab

The accuracy is very important, especially when the target is for maximum detailing. But for painting, on the other hand, I try not to stick too strictly to historical references. For me personally, standard colours do not exist in model painting, which only depends on the end result which I want to get. Take, for example, the M32, Since this is a Sherman that we don't have many choices for Painting, but I decided to make my own adjustments to the base tone, and

create a high contrast finish to make this Sherman more interesting rather than a regulation boring green. I created a light grey-green base colour (even a little blue was added) using Tamiya acrylics, although the tank was to be painted in standard American Olive Drab. While painting, I adjusted the colour tones several times as Tamiya acrylic always become a little darker when totally dried, and it is very important to check the tones

after 24hours before any weathering was applied. I didn't follow the popular colour modulation style on this Sherman, but I indeed highlight some of the details like hatches, handles and A-frame with a lighter colour to make it more interesting.



I prepared the model with an even coat of Mr Hobby 1200 primer. While waiting the primer to dry, I found the original cotton thread on the A-frame is quite rough and fluffy, so I replaced it with a length of fine

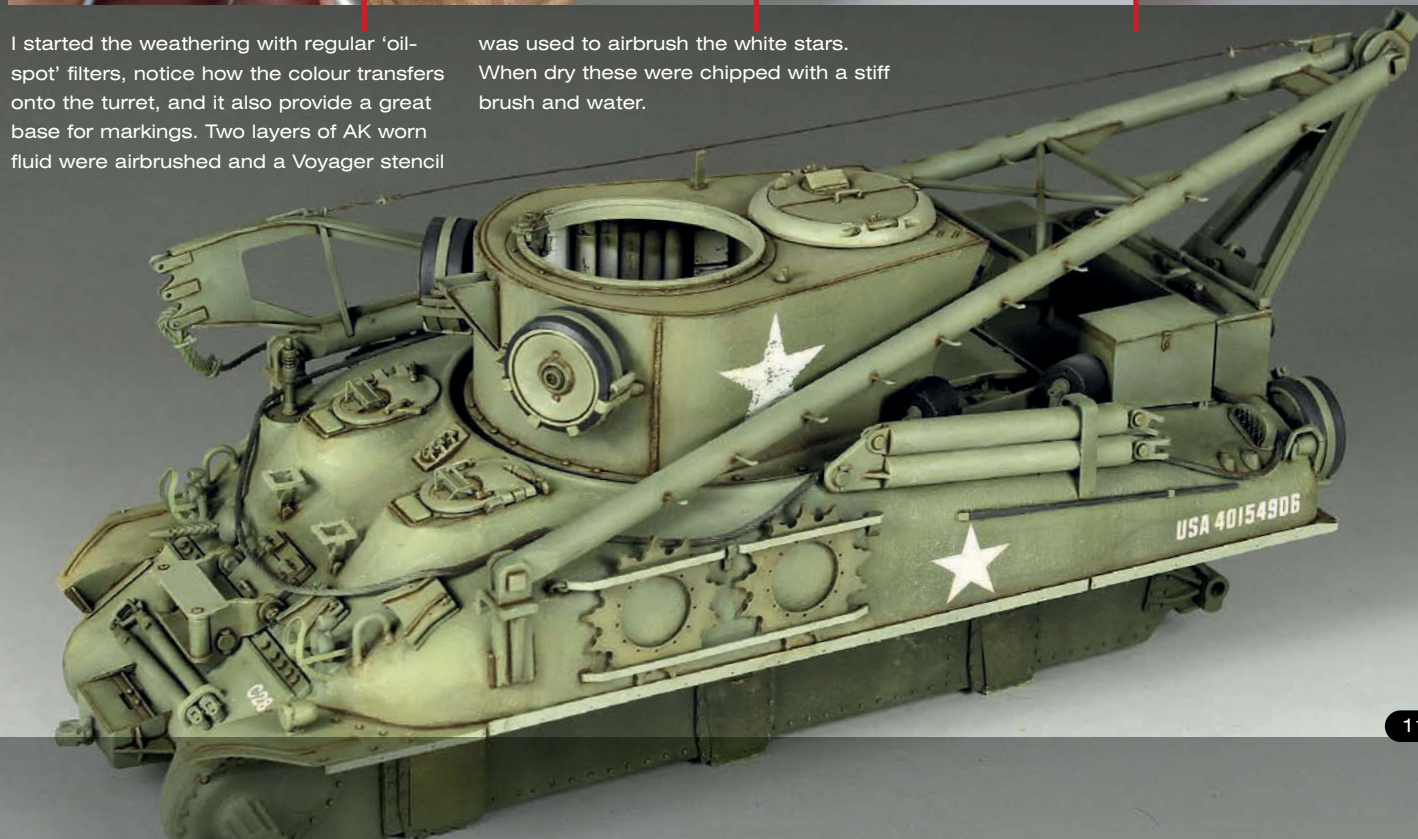
copper wire that found in an old pair of headphones. First, I painted the shadow areas with a dark coat of green mixed with Tamiya XF58, XF62, XF1 and X14

Then, I used XF25,XF58 and XF62 for the base colour and finally, highlight the model with an even lighter colour to create the grey-green base that I wanted.



I started the weathering with regular 'oil-spot' filters, notice how the colour transfers onto the turret, and it also provide a great base for markings. Two layers of AK worn fluid were airbrushed and a Voyager stencil

was used to airbrush the white stars. When dry these were chipped with a stiff brush and water.



Weathering, use and abuse

I started with several layer of regular filter and washes, to add some depth to the base colour and create a high contrast surface for further weathering. A thin coat of clear varnish was applied to protect the paint. For markings and decals, especially white ones, I prefer applying them after the filter was done, otherwise they will become much too dark once the weathering is

completed. Chipping is the one of the greatest challenges of the process, and I spent almost three days painting all the chips over the entire model, different chipping techniques are used on different areas, I'll explain them in detailed pictures. When the chips done, it's time to bring the model to life with pastel, pigments and oils, these are the weapons I used to

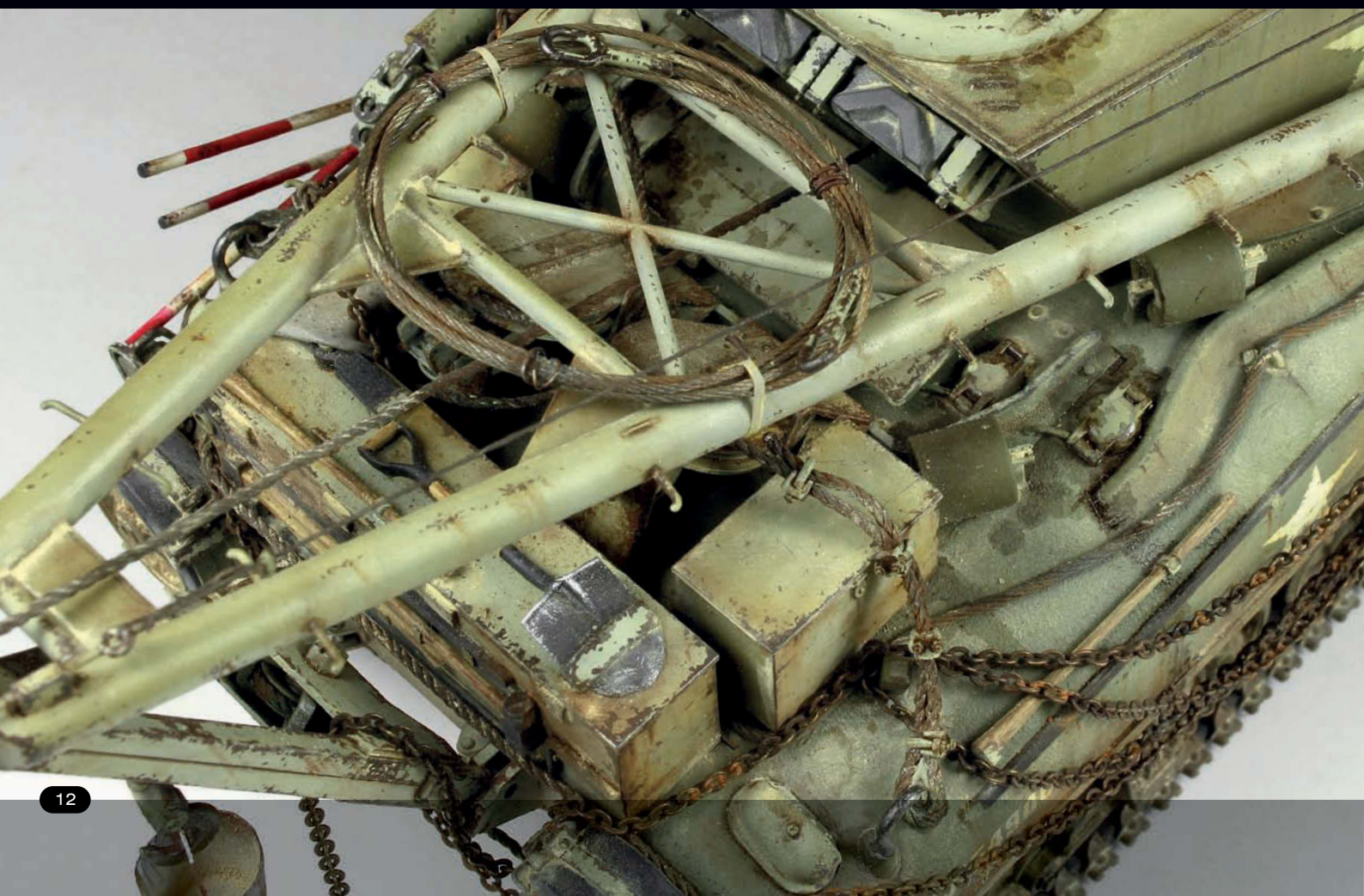
adding extra elements and give the model a just right worn and realistic look, again, we'll see how they works in Step by Step pictures.



The same filter was applied on the hull, using 502 Abteilung oils. I applied a brown wash around details and gaps with AK's Streaking Grime and a fine brush, then cleaned the unwanted paint with Tamiya X20 thinners. After several filters and the brown wash, the model is ready for chipping using Vallejo Flat brown and black to paint the

chips, I strongly recommend the Winsor&Newton 7 series brushes for this job. They absorb water well and will always keep a sharp point. For fine chips on the turret, I tried my best to keep them 'in scale', I don't want chips that are too exaggerated. Chipping on a cast surfaces is quite different from that on a metal plates, each

chip is separated and has its own shape, they will not form fine lines or scratches that are always seen on armour plate. I keep my brush vertical against the model and use a tapping motion to paint the finest chips. For tool boxes, as you can see, larger chips are more preferable, because they are to be made of thin metal sheet.





I Painted a thin layer of XF62 on the rear of the A-frame to balance the colour. Rusty streaks are made with German Ochre and Wash Brown. For dust, first I sprayed a thin mixture of Ak NATO tank dust effect and Tamiya enamel XF59 on the upper hull, where dust would

accumulate.

I dissolved some powdered pastels and then applied it on to the model with a round brush, wiping off any unwanted pastel with a dry brush. Adding more contrast is done by 'dry brushing' the

pastels onto areas around the hatches and into the corners.

As the pastels may not have enough adhesion, I used some fixer to set the pastels and repeated the process until the desired result was achieved.



The spare drive sprocket wheel plates were first treated with a coat of Dark mud pigment, then followed by two layers of chipping, in light and dark.



Running Gear and final touches



The road wheels were treated straight with pigments, simply applying different pigments onto the wheels, then dissolving it with Tamiya X20 thinner. Each suspension unit should be slightly different from each other.

The tracks are first painted carefully with an airbrush and then the pads are painted with a brush. Weathering the tracks is fairly simple, and several layers of pigments will do the job perfectly.

For the lower hull, I prepared the surface with a layer of dust toned Tamiya paint. As I don't want a muddy look this time, my attention was focused on pigments, applying different pigments straight on to the lower hull and then blending them with X20 thinner, I repeated this process several times. I used Grease mixture from MIG Productions to create the water and oil stains on the lower hull.

The road wheels are glued to the hull, notice the darker grease I've added behind

the wheels.

The cables are painted with dark brown then treated with rust and dust tones of pastel.

Grease and oil are what bring the armour to life, adding several light and dark grease stains around the engine deck, hatches and also on the rear of the vehicle.

A tarp made from AB putty was added to the big opening on the turret and to finish I rubbed the polished edges with a 6B pencil.



M32 B1



Colour chart:

Tamiya Acrylics:

XF1, XF2, XF22, XF25, XF58, XF59, XF62, XF64, X2, X14, X22

Tamiya enamel: XF59, X20 thinner

Vallejo: various

AK-interactive: Worn effects; Streaking Grime; Rain marks for NATO tanks; pigment fixer;

MIG productions: Oil and Grease Stain Mixture; 502 oils various

Pigment: Beach sand; dark mud; dry mud; Europe dust

As a tank recovery vehicle, it is reasonable that the vehicle was loaded with a lot of engineering accessories, so I added some chains and bags around the upper hull, the ranging poles on the hull side are inspired by Fabien Descamps's wonderful M32 Aunt Jemima. It looks great and really brightens up the model. The tarp on the turret, gives more contrast once painted with dark blue.

In conclusion, with details everywhere, this is really a busy and enjoyable model, and it is also the most complex Sherman I've ever built so far. Special thanks to Adam Wilder for his encouragement.



T-80U



MARK NEVILLE BUILDS XACT MODEL'S EXCITING DEBUT KIT
OUT-OF-THE-BOX (WELL...ALMOST...)

1:35



Not only do we find trends within our hobby of how models 'should' be finished and presented, but certain genres have surges in popularity which can definitely be said of post WWII Soviet subjects. Even some die-hard 'Shermans and Germans' modellers are straying eastwards and finding the mean and purposeful look of some of the sleek Russian machines very tempting subjects. Of course this is helped greatly by the availability of the subjects as affordable injection moulded kits in this golden age of modelling, the choice is truly overwhelming already and then

along comes another new manufacturer to tempt us with their wares!

Xact Models of China announced their first release a few months back and are already about to bring their second modern Russian kit, the GAZ Tiger, to the market. The gas-turbine powered T-80U is probably the rarer of the T-80s and I'm sure we'll see the diesel and later versions which opens up scope for combat vehicles in Chechnya with some great reference available.

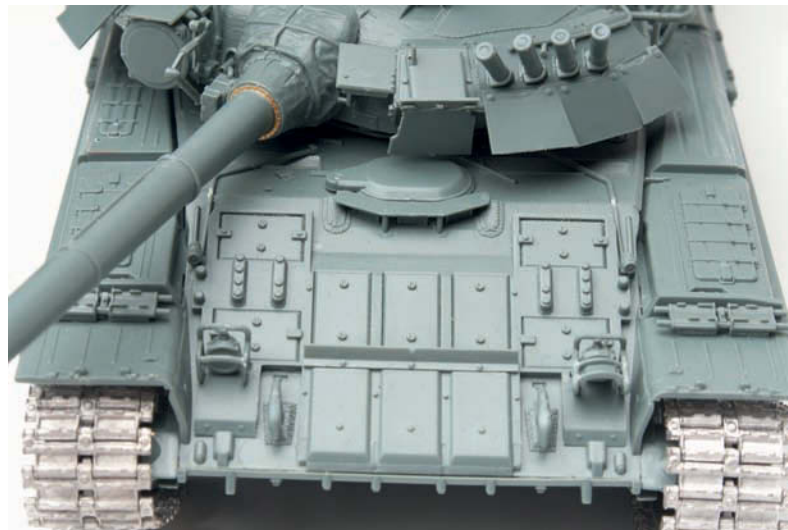
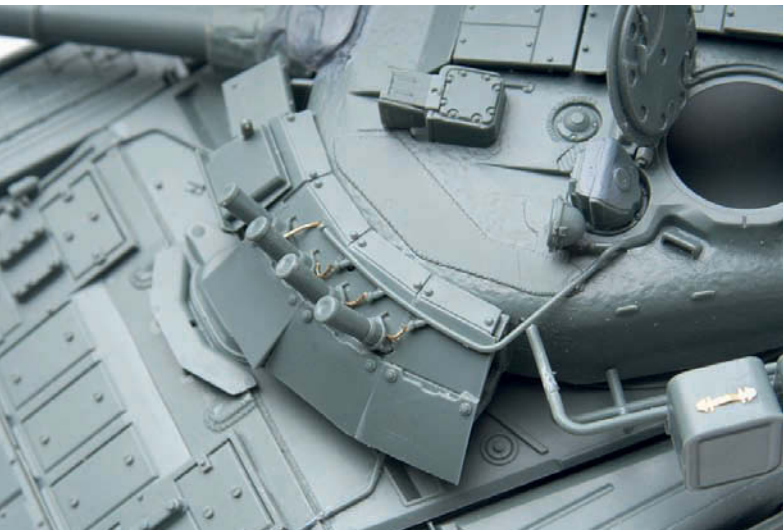
First impressions of the kit are very good; smart packaging housing a pile of grey-green sprues all safely bagged along with clear parts, photoetched parts including a pre-formed mesh screen, and 'rubber-band' tracks. A clear instruction booklet also includes a colour A3 sheet of camouflage options. We reviewed the kit a couple of issues ago so let's get down to business and snip some styrene and start sticking...

XACT'S KIT

For a first release Xact have been very brave in tackling such a complex vehicle. The design of the kit follows a standard format so we have a sound basis of a fully detailed lower hull tub moulded as a single piece with the upper hull panels proving an excellent fit. Separate trailing arms could be positioned to match the contours of any groundwork you may choose to display your finished piece. Wheels are very nicely detailed with good chunky locating points

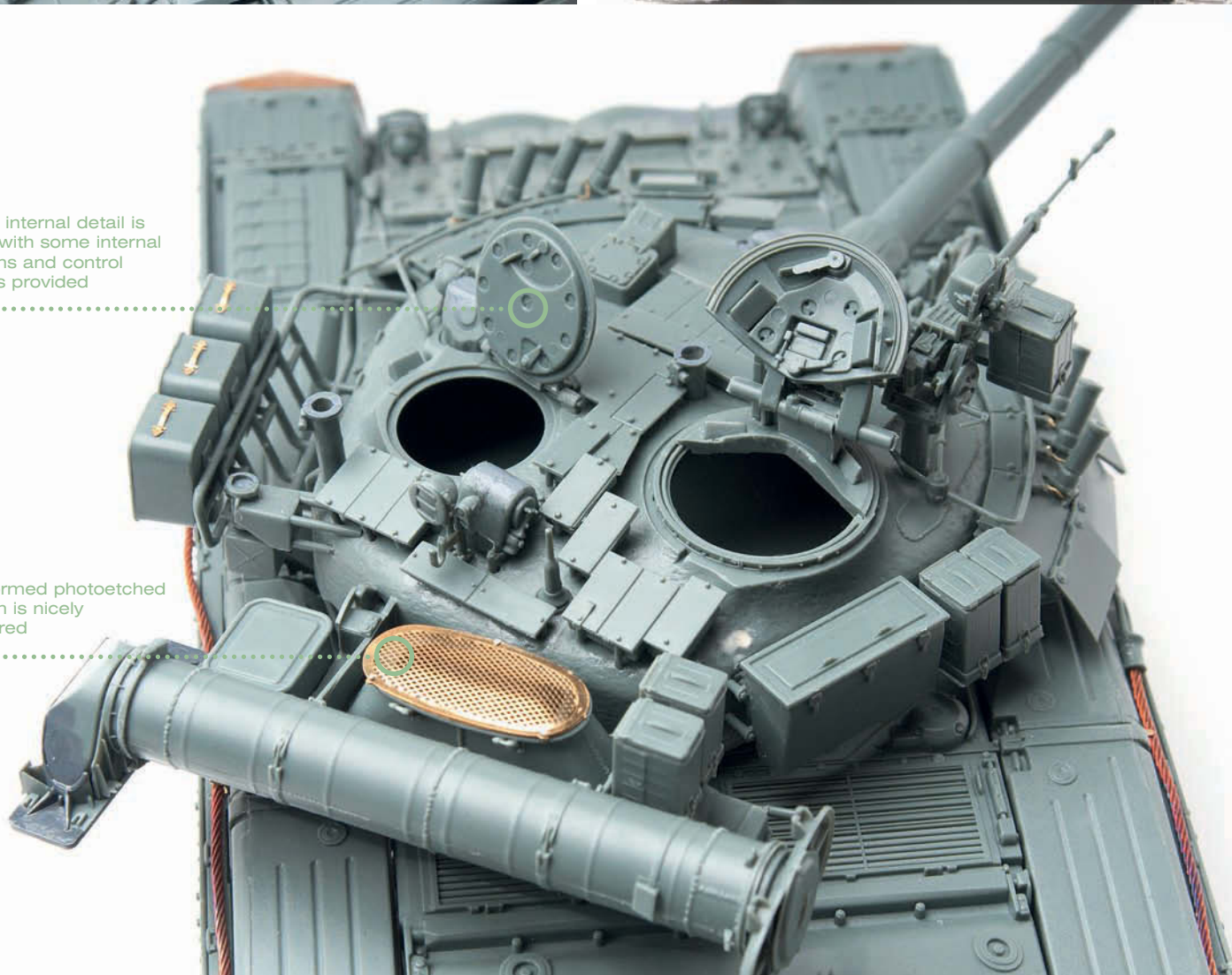
but not offering an option of rotating. This leads to the only real modification to this out-of-the-box build. Following the advice of Terry Ashley on his Perth Military Modelling website, I opted to add a spindle to the drive sprocket and drill the housing to allow the wheel to rotate. This was only necessary as we'd decided Friul metal tracks were the way to go as the detail is limited with the process of moulding rubber-band type tracks, my main nit-pick

with the kit. A call to Historex Agents gave the good news that they had plenty of ATL-129 sets in stock. These T-80 Friuls are tricky as short pins need to be inserted from both sides and look out for the slightly different links that run around the drive and idler wheels (bagged separately). Rather than thin the wire supplied I opted to use 0.4mm brass rod cut to size before inserting which is more robust.



Hatch internal detail is good with some internal screens and control panels provided

Pre-formed photoetched screen is nicely rendered

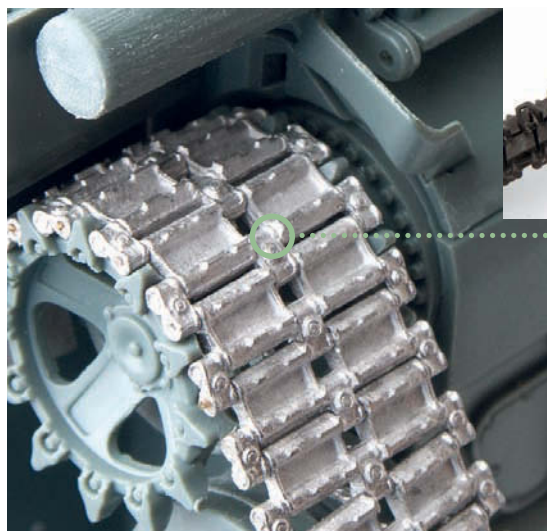
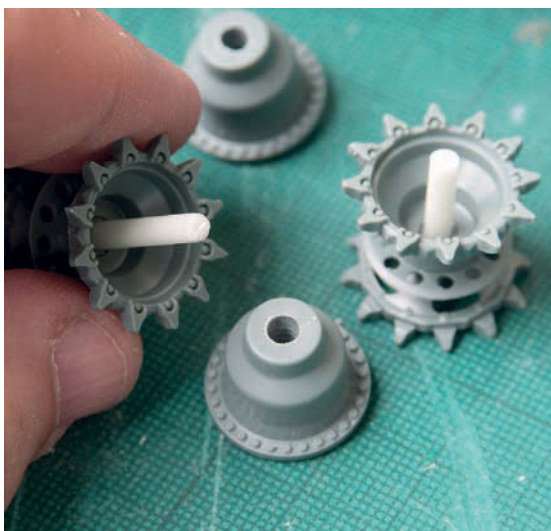


Continuing with the hull assembly proves this kit is a very satisfying project, rich in detail with a very precise fit. This kit really can't be rushed though, there's a lot of parts, and if like me you're not familiar with the T-80, plenty of dry-fitting and study of the instructions is the order of the day. To give a true representation of the kit I've avoided using any filler but to be honest if you take your time with assembly it would be minimal anyway- this is a well

engineered kit, I'm not the most skilled of 'builders' you'll ever meet but didn't find much to get frustrated about. The first parts I found troublesome were the front mud flaps / guards which are supplied as photoetched parts. Even though I annealed the pieces it was difficult to form the shape. I think these pieces would have been better in plastic with the edges thinned by a fresh scalpel blade as I've done with the other rubber skirts.

Another addition (and old favourite) are the tow cables from a Karaya selection I've had for many years, the gold nylon cord provided in the kit is best resigned to the waste bin.

So with the hull complete it's on to the turret which is where you'll spend the majority of your time with this build!



Friulmodel white metal tracks are a big improvement over the kit's rubber-bands. Adapting the drive sprocket to rotate helps with their fitting



Single piece gun barrel is well moulded with a faint seam requiring removal

Brass wires have been added to the smoke candles

Aftermarket copper tow ropes replaced the kit supplied nylon cord

Contours of the front mud flaps are difficult to achieve in etched brass

Edges of the rubber guards were thinned-down for a more scale appearance



The complex snorkel assembly has excellent detail and sits at the correct angle at the rear of the turret

A piece of stretched sprue helps define the retaining lip for the mantlet cover which is blended a little more into the turret with Mr Disolved Putty

Spiral bound wiring is depicted by aircraft oxygen hose in flexible resin available in various sizes from Model Design Construction

Optional photoetched screens are provided for the intakes

The turret is without a doubt the most complex I've ever built! The basic single piece casting looks relatively small but quickly grows as you add the ERA armour blocks smoke candles, storage and the enormous snorkel assembly. A couple of difficulties I encountered was the plethora of holes to drill from the inside to locate various parts externally, I missed a few (I think!) which led to a little confusion later which isn't helped by the instruction plans only showing the front three-quarter view leaving the need for some reference to hand; have some photos to refer to and familiarise yourself with the fittings to avoid frustrations. The time and patience pays off when you sit back from the finished turret and breath a sigh of relief, a very busy highly detailed piece of work tops off this sleek and mean looking machine.



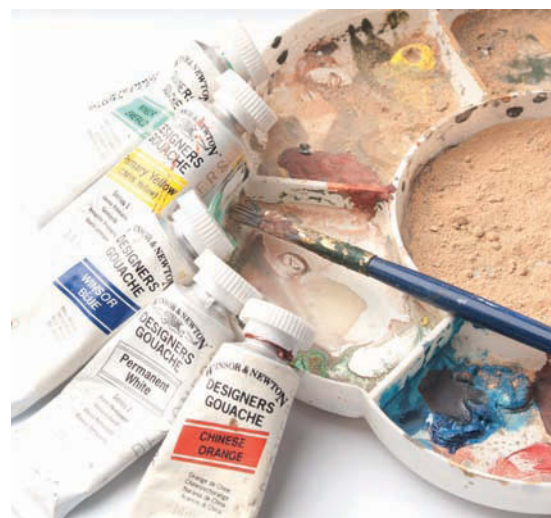
PAINTING & WEATHERING

I decided to try a sample of AK Interactive's coloured primer as an undercoat and pre-shade. This new acrylic is ready to spray and has a good 'bite' into the surface, I opted for black as the model has lots of shadows and under-cuts where the black can be left slightly visible when applying the lighter base colours. A benefit of modelling modern vehicles is the wealth of available colour photographic reference. With this visible at the workbench I mixed the colours by eye using AK ready to spray acrylic through the Iwata Micron airbrush. The light stone colour was applied first concentrating on highlighted upper areas and as mentioned, leaving some of the black base primer still showing in shadowed areas. Next was the green camo mixing AK 716 (80%) and 703 (20%) I applied this at a low air pressure outlining the shapes and then filling in with a slightly higher pressure. Finally the small flicks of black were applied by mixing a touch of black into AK 704 Dunkelgrau.

The contrasts between the colours at this point are too strong and out of scale which was addressed by the next stage. Again looking through colour photos of the T-80U, dust and dirt were the order of the day as opposed to battle damage (these vehicles not really seeing any real combat) so any chipped or flaking paint was a definite no-no. I like to build dust and dirt up in a layered effect starting with a diluted mix of designers gouache airbrushed and then worked at with a damp paintbrush. The water-based gouache remains workable (no good if you're later applying water-slide decals, a sealer coat of varnish is necessary) and dries to a chalky matt finish. An old brush loaded with the dirty gouache colour was held close to the model and given a few shots of air from the Iwata to produce the mud splatter, again built in different shades and layers adding depth to the surface. Being water-based the dust and dirt isn't troubled by subsequent colour filters and washes. For these I've used colours from the AK range, wash for NATO tanks, Dark Brown Wash,



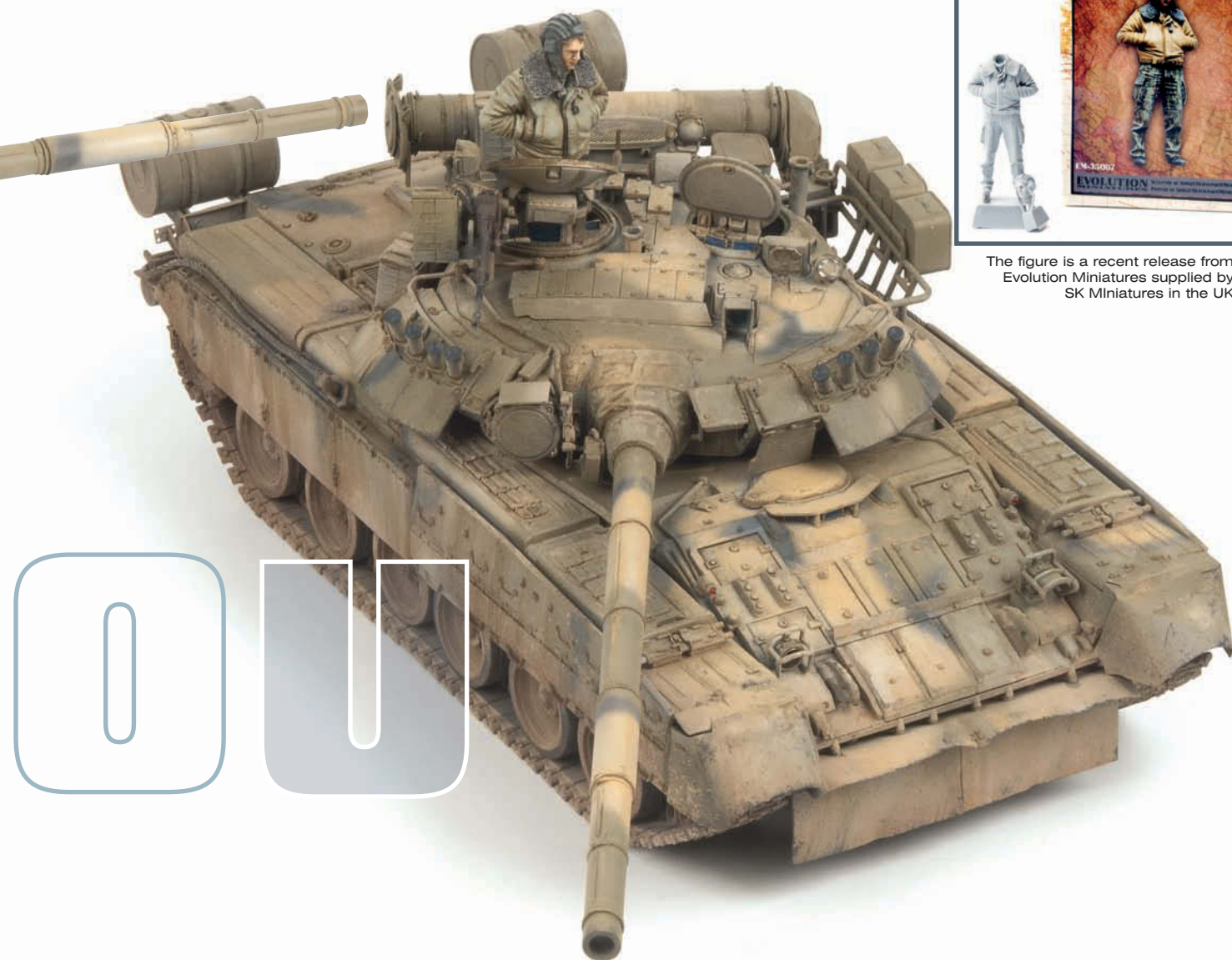
Afrika Korps filter (slightly orange with a nice warmth) all helping to harmonise the camouflage colours and extenuate detail. The T-80 is a great subject for all those pin-washes that help the fine detail 'pop-out' from the surface. With the main colours finished it was time to concentrate on detail painting. Vallejo 'Air' black was used for it's subtle sheen on the MG followed by a buff with Lifecolor's Reflecting Agent from their excellent weapons finishing set.



Gouache only applied

Filters and washes applied





The figure is a recent release from Evolution Miniatures supplied by SK Miniatures in the UK

The tracks were detailed next with the contact surface of the roadwheels and the inner surfaces brushed with Lifecolor Track Rubber which is a dark warm grey with a realistic finish. Final dusting was added with pigment powders applied heavily to the tracks and road wheel centres then scrubbed with a stiff brush. The exhaust outlet was given a dusting of pigment powder, I noted that these gas-turbine powered vehicles don't have the heavy soot staining you'd find with a diesel powered vehicle. Numerous fuel stains and light scuffing were the finishing touches to the weathering.

Amongst all the drab colours and dirt a little sparkle was added with some SKP headlamp lenses and a spot light and marker lights lenses from the Little Car's range. The periscopes and sighting equipment lenses were picked out with blue Magic Color airbrush ink chosen for it's semi-transparent vivid colour.

I think it's safe to say that Xact have done a great job of their first release, this model has a great look and presence about it. The quality of moulding and fit of parts is excellent but it is a complex build and not for a novice modeller. I'd also suggest clearing your workspace of other projects as there are lots of small sprues (over twenty!) which will end up scattered everywhere!

I can see the likes of E.T. Model producing some photoetched upgrade sets for this kit shortly which will push the detail even further but I'd imagine many of you would be happy with the results, as we were, building straight from the box, well, apart from the tracks. If you didn't want to stretch your budget to aftermarket tracks a coating of textured mud across the running gear would be the way to go.

Russian armour fans will be more than happy to see this range expand with different versions of the T-80.

Thanks to Mr Edward Shen of Xact Scale Models for our sample kit XS35001

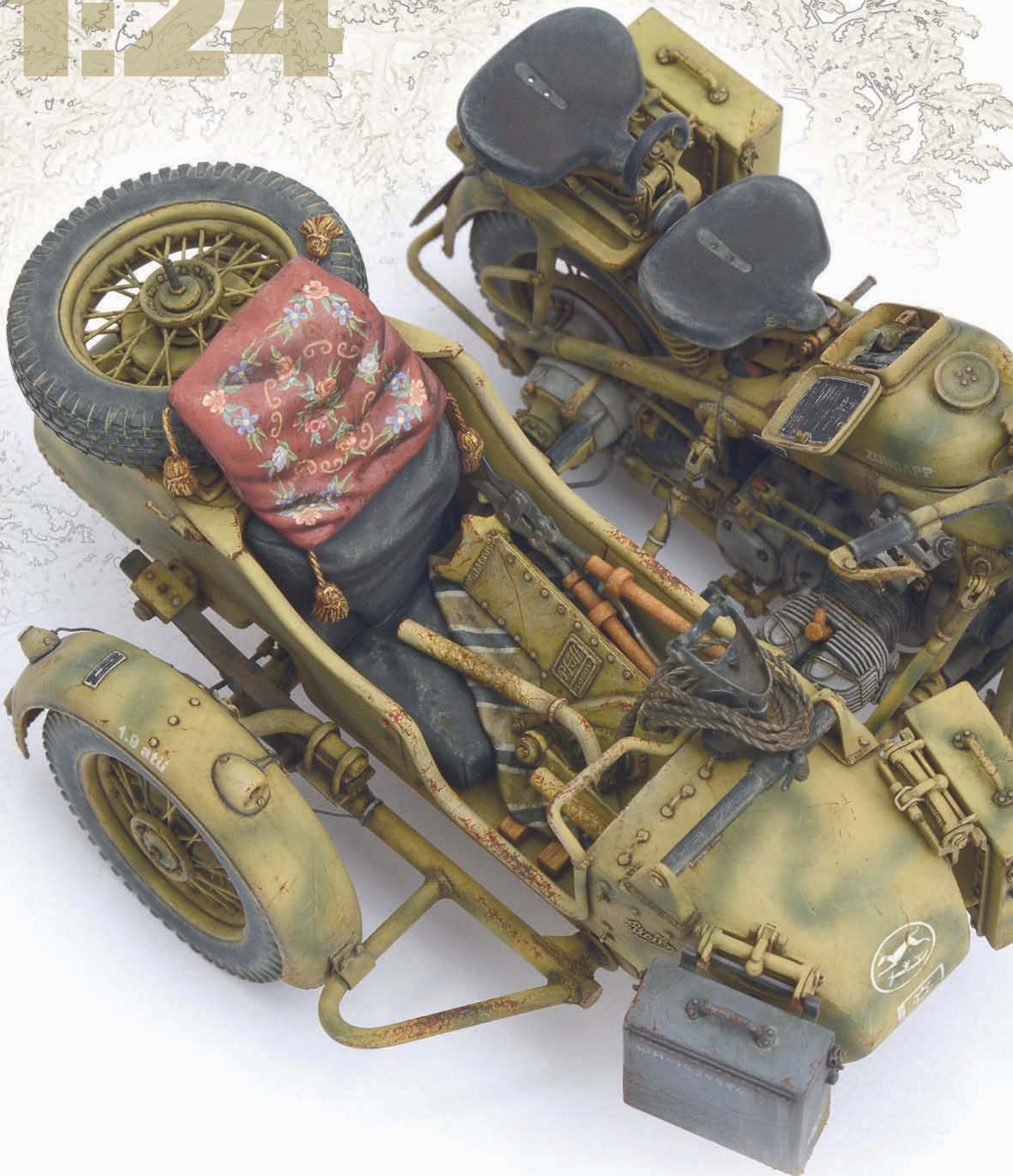
Available in the UK from www.insidethearmour.com

Fruilmodel Tracks ATL-129 www.historexagents.com

Evolution Miniatures 'Modern Russian Tanker' www.skminiatures.co.uk

Russian Armour Vol.3 Main Battle Tank T-80 By Mikhail Baryatinskiy www.ianallanpublishing.com

1:24



"In der Falle?"



Tasca's 1:24 Zündapp KS 750 m. BW43 ("Kriegselefant")

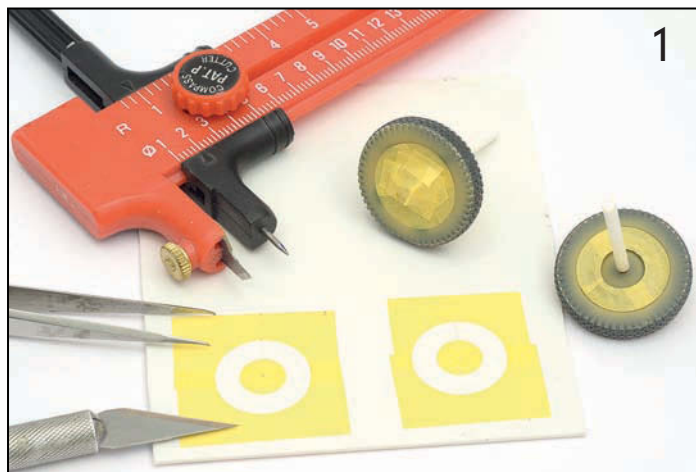
PART TWO ● Modelled by Robert Doepp

Painting

As I had to deal with all these extremely small details I tried to keep the paint layer as thin as possible and therefore dropped the plan to add any "Modulation" effects. Instead I only sparingly sprayed the metal parts with Humbrol 01 and applied a thin layer of "Sandgelb".

Motorcycles were officially declared to be "Kleingerät" (minor equipment), to which no camouflage pattern was to be applied. Nevertheless the troops did not always follow this rule and I decided that soldiers of a tank maintenance unit would most likely use their facilities to enhance the camouflage effect.

This decision caused some additional trouble because some of the main components had to be removed from their handles and provisionally assembled. I have found extensive photographic evidence for rough paint application by troops in the field even on delicate motorcycles. While obviously quite common, no care was taken to avoid overspray, with virtually the whole motorcycle covered with paint. To match a rough overall appearance on the one hand but on the other not spoil the refined impression of the model I applied the camo-pattern on top of the minor decals and kept it irregular but dropped the plan to overspray license plates or aluminium parts as well.



Pic 1: Home-made stencils were cut from Tamiya-tape by the help of a circuit cutter to blacken the tyres with an airbrush.



Pic 2: Tactical markings and unit symbols from several Archer sets were employed. The 1:35 scale items meant for larger vehicles proved just right for my "Kleingerät".

Pic 3: Some parts originally made of "Bakelite" helped to add extra variation. The cover of the distribution box ("Abzweigdose") was delivered from the factory in black but some replacement items showed raw "Bakelite". To create an irregular pattern I made a reddish base tone from Yellow Raw Ochre and Natural Burnt Sienna and dapped some Naples Yellow to the still wet basic layer concentrating on the raised areas.

Pic 4: The wooden parts were treated in a similar way except for the pattern, in which the lighter tone was applied in order to mimic wood grain. Notice the varying shades of the wooden food rest.

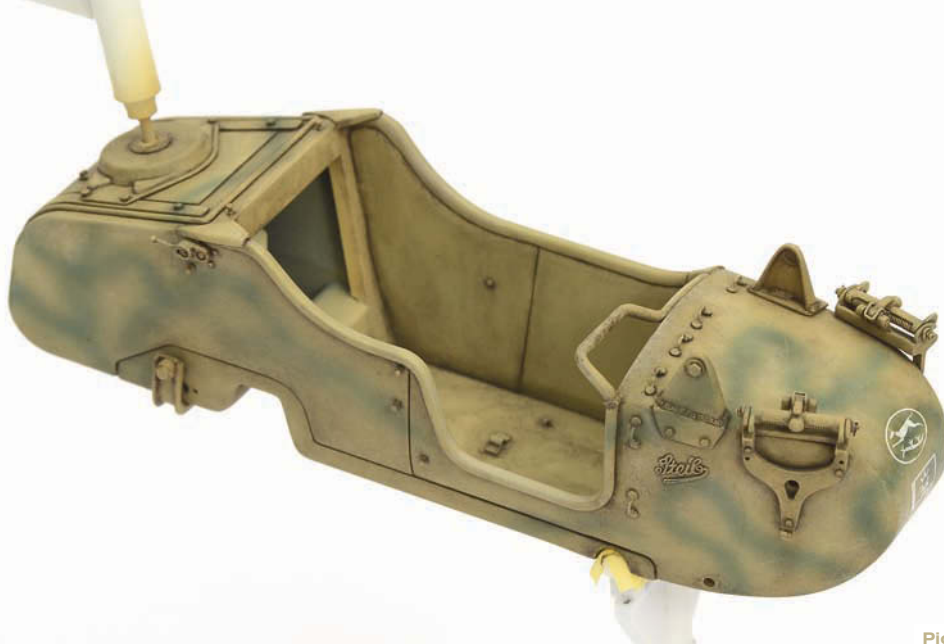


Once the camouflage had been applied I came back to the original number of sub-assemblies, and brush painted some of the smaller details until all base tones were done and I sealed everything with a thin layer of semi-satin acrylic varnish (Tamiya X21/X-22) to prepare the weathering process.

Weathering

Just as with the painting I also had to adapt my weathering techniques to the unique characteristics of my subject caused by its high number of extremely delicate parts. Consequently I did not apply the overall wash of enamels as I am used to doing and

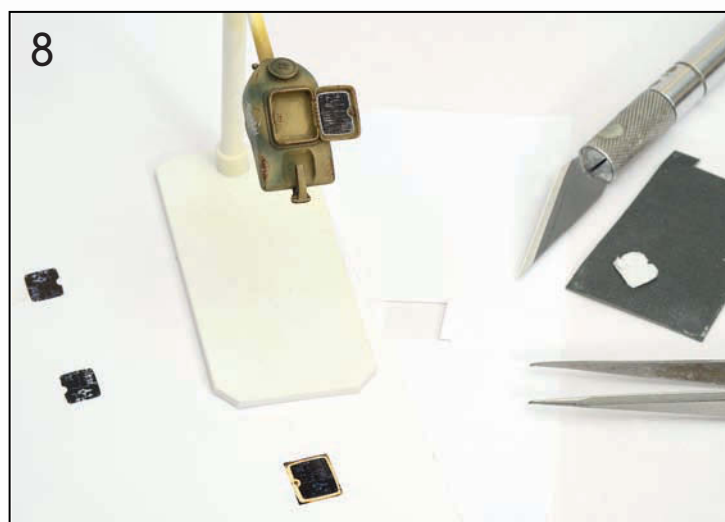
dispensed with drybrushing too. Instead I replaced these techniques with a kind of pin-wash based on Vandyke Brown oil paint and the application of a highly thinned sandy mixture mixed from Yellow Raw Ochre, Naples Yellow and Opaque White oils to some exposed areas. (Pic 5). A motorcycle used by a maintenance unit will not show the same signs of heavy use like an (armoured) combat vehicle. It will rarely be shot at and this fact not only made me keep the chipping treatment more delicate than usual but also gave me the idea for signs of wear that I have not done in this way before: To prepare the chipping I applied a fair amount of fine



Pic 6: I was puzzled for quite a while about when to glue the lights with the prepared clear lenses. In the end I decided to add the "pin-wash" to the lights bodies at first, glue the lenses from the inside and fix the lights into place before I proceeded with the "washing"-process at the surrounding areas.

Pic 7: I tried to keep the "chipping" as delicate as possible. Differing from my former work I did not add light chips to the "Sandgelb" areas as these would have interfered with the already applied delicate dark scratches.

Pic 8: While the decal sheet includes a really nice representation of the main factories nameplate on the steering head all other sheet metal marking plates are missing. Thus I made use of versions copied from the net and printed on photo paper. This was cut and sanded to exact shape before the very thin glossy upper layer was carefully cut to reach approximately adequate thickness.



dark scratches with white spirit thinned Vandyke Brown oils to mimic impacts, which did not completely ruin the paint (Pic 7).

As I had extensively made use of oils throughout the weathering process some matting down proved necessary in the end, but I limited the application of matt varnish to areas where it seemed absolutely necessary to eliminate shine (e.g. of rusty areas) or to hide the paint build ups of the chipping - once more to minimize the overall thickness of the paint layers.

Final Assembly

The side car body was the starting point. Once the seat and footboard had been glued the pre-assembled blanket/jack-unit fitted very tightly into the body and the delicate extra equipment could be carefully added afterwards. As the body had been firmly fixed to a pin underneath the spare wheel it had to be removed from its handle before I could add the wheel. Just like the original, part the body was only glued to the front clamps while the rear support bracket was just clicked into the drilled retainers at the leaf spring ends.

Afterwards the assembled part became rather delicate and extra care was necessary when adding the outer detail to finish this first large sub-unit.

It proved almost impossible to firmly fix the motorcycle frame to a handle. I chose the engine as the main fixing point as the prepared plastic tubing on the inside could afterwards simply be hidden by the oil sump (Part A1). Nevertheless the assembly had to begin with installing the differential into the frame from the front and fixing it along with the wheel. Both were not glued

9



Pic 9: The final step of creating differing paint damage effects was to apply subtle running streaks of varying rust and brown tones, which were feathered with a brush moistened with white spirit.

11



12



10



Pic 10: Though for sure realistic for most military vehicles adding light dusty recesses interferes with the basic dark "washing" effect and can easily ruin the detailed overall impression. Thus I kept the oil based dusting to a minimum and concentrated on the wheels and fenders where it seemed absolutely necessary. A sticky paste mixed from oils and pigments of varying shades finally served as a representation of mud on the fenders and the surrounding areas.

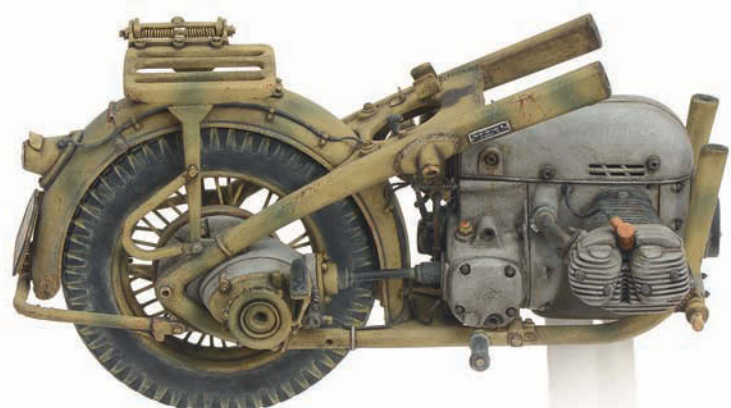
Pic 12: The blanket was treated in just the same way as the pillow. The jack click-fitted into its sunk position and did not need any gluing. The "washing" has brought out the "Pfaff" sign including the specification "15000kg". Unfortunately the "g" is not readable.

to provide the necessary play, which was reduced to a minimum once the engine had been glued into place. After the exhaust had been added I glued the steering head. To avoid any potential problems the prepared copper rods were cut to a minimum before fitting. Once the gas tank had been fixed along with the petrol tap again the most delicate details could be added to finish the job and the sidecar unit was glued in position.

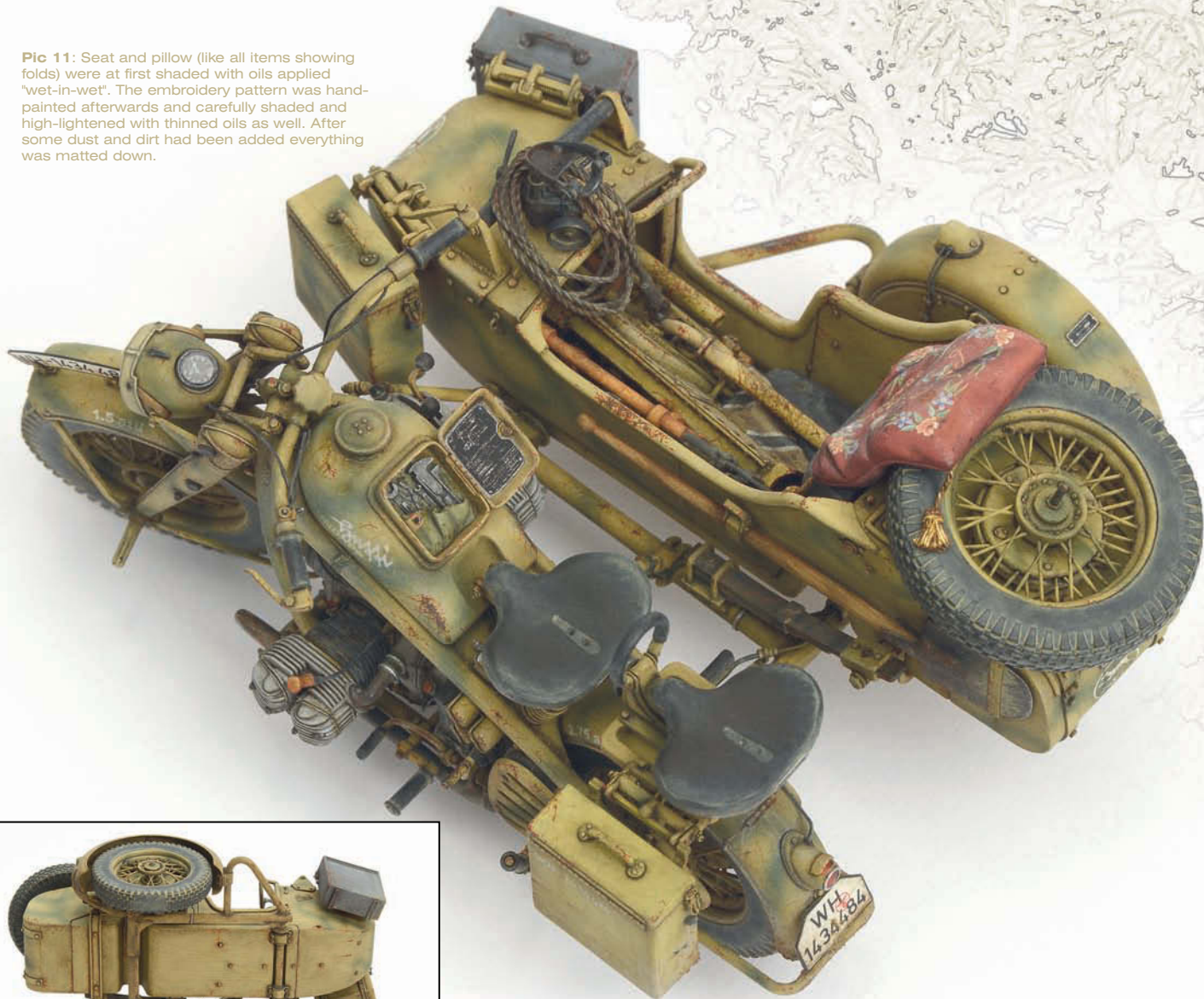
Conclusion

Making a scale motorcycle has been a new experience for me. I was assisted especially from the multiple internet experts and especially by the German company owned by the enthusiast Hans-Peter Hommes meaning I could rely on better references than with any former model. The good news is that the Zündapp could keep only few secrets from me, but on the other hand I had to realise that many of them were quite hard to recreate in scale and even fewer could be kept from the view of a close observer. That meant a lot of work, but I hope you will agree that it paid off in the end!

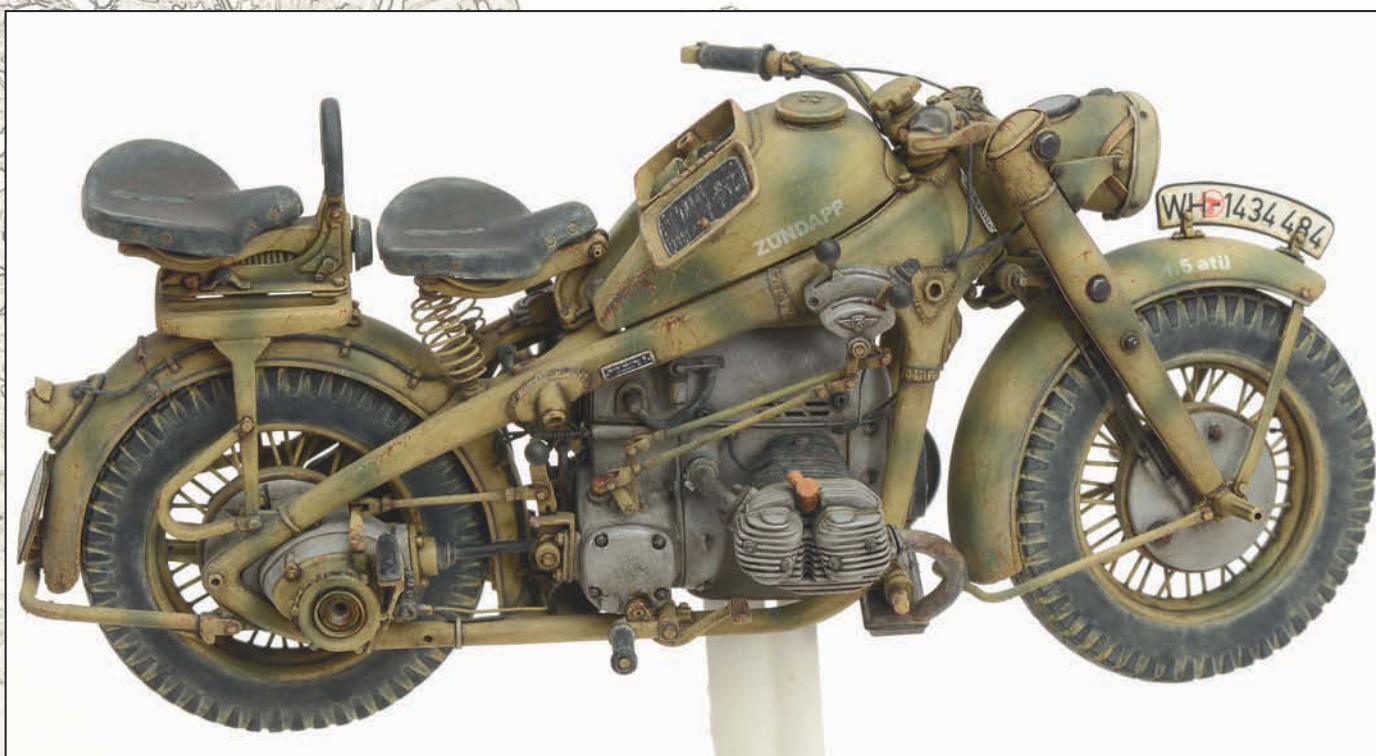
The Project continues in the next Issue with the diorama base.



Pic 11: Seat and pillow (like all items showing folds) were at first shaded with oils applied "wet-in-wet". The embroidery pattern was hand-painted afterwards and carefully shaded and high-lightened with thinned oils as well. After some dust and dirt had been added everything was matted down.



Pic 13: The handle was at first planned only for the engine, afterwards it held the complete unpainted model and was finally further enlarged when I lengthened the main plastic tube in order to reach the model from underneath. Rather chaotic - but nonetheless effective!



Scale Model Challenge

2013

Crossing the North Sea in a storm was not quite the challenge we had in mind but the Eindhoven show once again made it all worth while and with modellers from across Europe in attendance the quality of the competition was as good as it gets! Here is a small selection of some of the models that caught our eye









Leningrad – 1943

Leningrad was one of the main objectives for Operation Barbarossa and the defeat of the Soviet Union, because it was the first city with an important communications net in the north of the country. The rough woods surrounding the city were hell for Panzer troops, who had to face not only the thickness but the knowledge of the ground by the Russians who got in trouble the German war machine.





HELL in the Forest

Modelled and described by
Jorge Porto





PANZER II J

The prototype developed under the name of VK-1601, and to become the Pz II-J mounted the proven KwK 38 20mm cannon and one 7.92 MG34 machine gun in the turret. Heavily armoured it was designed to support infantry and was provided with a powerful 150 hp Maybach engine to move its 18 tons. Only 22 out of the 30 ordered were built, all between April and December 1942. These vehicles were sent to the 12th Panzer Division to confront Russian forces in the siege of the city.

The Kit Assembly:

The veteran ALAN kit, despite its age is not complicated and does not present difficulties in assembly. I used Eduard photoetched parts to complete the assembly and I chose to represent some damage to the vehicle, with dings and dents in the trackguards. (Photo 1) I changed the plastic handles above the side hatches with new ones made with copper wire. Weld beads were made from stretched sprues softened with Tamiya

glue and textured with the tip of a cutter (Photo 2). I also corrected the location of the base of the antenna, which is incorrect in the instructions. (Photo 3) On the turret, thinner weld beads are represented by softening the edges with Tamiya glue and giving texture with the tip of a cutter. I added a triangular reinforcement strip attached to the back plate of the turret, and remade the hinge of the hatch. Finally I changed the weapons with a new 20mm cannon and MG34, both from Aber.

Painting

As always I start by applying a Mr Metal Primer layer by airbrush, to cover the metal parts and avoid any surprises. Once dry I applied very thin layers of primer Mr Hobby, that has been mixed in a proportion of 30% of primer and 70% of its dedicated solvent.

Base coat - camouflage

Returning to classic paint system, I applied a base with tamiya XF-60 to which I added

a little Gunze white and a little yellow XF-3 for the base colour. I added more white and yellow to give highlights to the centers of the panelling. (Photo 4)

I used for the brown camo a mixture of XF-64 and some XF-7 and XF-3, whereas a mixture of XF-67 with a bit of XF-3 serves for the green camo. I applied thin layers, as a glaze, avoiding covering the whole area (Photo 5).

Decals

One of the weaknesses of the model are its decals, very thick and poor quality. So I turned to several Archer DryTransfers, which were sealed with a coat of varnish (Photo 6). Next was a Pinwash I pinwashed all the details of the model with a mix of Brown Wash and Dark Wash. This process must be very controlled and any excessive areas were corrected with MIG Productions Thinner (Photo 7)

Chipping

I applied some chipping with Vallejo 822,





mixing both sponge technique and the brush, in the areas more exposed to damage and scratches. (Photo 8)

Acrylic lighting and tools

With Vallejo 976 mixed with a little white I painted some highlight details to counteract the darkening effect of the washes. Subsequently with several Vallejo colours I paint details and the various tools that help give a variety of colours to the vehicle. (Photo 9)

Oil colours

Working in specific areas, moistened with MIG Thinners I added selected filters of oils with different colours. After a few minutes I mix the oils to create different shades that provided a rich colour. I applied the oils more transparently on top and darker on the bottom. On the vertical surfaces I used a flat brush from the bottom up, making attractive subtle vertical streaks. (Photo 10)

Dusting with pigments

The dust effect is achieved with MIG Pigments, Europe Dust (PS028), Rubber

Dust (PS234), Russian Earth (PS034) and Light Dust (PS027), mixed together in different amounts and varying shades. I used MIG thinners to fix the pigments (Photo 11). The effect of accumulation of oil and grease is done with asphalt oil colour and bitumen, mixed with pigments used for dusting, with MIG Thinner. I built up successive layers of pigment and grease for lumpy effect that oil generates. (Photo 12)

Tracks

I used Friulmodel ATL-64 tracks and first airbrushed a couple of layers of Gunze Metal Primer to help fix the paint on the metal and then primed the tracks with Gunze Primer. (Photo 13) A mixture of 302 and 301 from the Vallejo "Panzer Aces" range were used to paint the tracks. (Photo 14) I added a little Brown Orange 981 to the base mix, and brushed a wash over the tracks. With MIG Black Smoke I treated the running areas of the tires (Photo 16). Finally, put the chains and leave it up to place it on the vignette and to finish the dusty adapting to the terrain.



Final dust – Adapting to the terrain
After setting the vehicle into the tracks marked on the ground, and with the same pigments used previously along with the mixture I used for the terrain I covered the tracks to integrate with the ground using PVA glue. Finally I burnished the raised parts of the tracks.

The Terrain

I made a square base of expanded polystyrene, protected with masking tape, and I covered the base with DAS Pronto clay. While it is still moist I texture it with an old toothbrush. I also placed the different pieces that make up the vignette to mark their position, or create the textures left by the vehicle and footsteps of the figures (Photo 17). I covered the base with Vallejo 316 Dark Mud (Photo 18). Once dry, I applied a wash of Vallejo 950 Black, to give

contrast and then when this was dry a highlighting drybrush treatment with 315 clear mud mixed in various shades with dark Mud 316 (Photo 19).

With a mixture of diluted wood glue over the base, I randomly covered most of the ground with clumps of grass sticking varying heights and densities, to give a sense of wild grass (Photo 20).

I then airbrushed bright green XF-26 over the grass area. A subtle dry brush with olive gold brown 967 and 877 added variation to the grass. (Photo 21) Various materials such as ferns, mosses and lichens and small twigs, collected from nature, were glued with diluted wood glue along with varied groundwork products by Mantis and Silflor, to complement the various elements of the vegetation. (Photo 22-24)

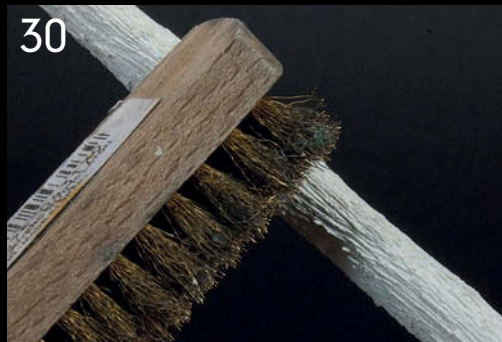


The Pine Trees

Several Asparagus fern leaves (Asparagus plumosus) of various sizes, were immersed in a mixture of wood glue and water 50%. (Photo 25). I let them dry on paper towels. After a few minutes, I turned the leaves to prevent them sticking to the paper. (Photo 26). Finally I painted them individually with XF-26 Deep Green. (Photo 27)

The materials I needed to make the tree trunks are shown in (Photo 28) and the handle of the brush I use as a base for the trunk. With modeling tools I covered the handle of the brush with clay and textured to the base of the trunk. (Photo 29). With the Das Pronto still wet, I used a wire brush create the irregular texture of the tree trunk. (Photo 30)





With a 0.5 mm drill I made a spiral pattern of small holes around the upper 2/3 of the tree trunk, where the branches of the tree will locate. I painted the trunk with yellow green 881 Vallejo. (Photo 31) Next a general wash with Vallejo black 950. to penetrate all the cracks and crevices. (Photo 32) A dry brush coat was applied to the trunk. One overall with 885 pastel green, and then one more point with the 986, to highlight some more prominent areas. (Photo 33). A very diluted wash of 939 Smoke provides contrast to the trunk. (Photo 34) and I applied another subtle wash with Olive Med. 850 at the base of the trunk to simulate the effects of moss. (Photo 35)

Finally, using superglue, I stuck the leaves into the trunk. (Photo 36)

The Bush

I used a natural twig to stick small clumps of synthetic fiber used for aquarium filters with wood glue. Once dry, I painted the bushes with a mix of XF-64 and XF-1. I sprayed the bushes with hairspray and add a few leaves by Noch (ref 07140) added little by little, to have a convincing result. (Photo 37)

The figures

The three figures are from First Legion. They are very good quality but need a little cleaning up with some flaws in the moulds but nothing serious.



Colour chart

FLESH

Base: Brown Sand 876

First Light: Base + Sunny Skin Tone 845

High Lights: First Light + Ivory 918

First Shadows: Base + Burnt Cadmium

Red 814 + Medium Glaze 596

Last Shadows: Base + Burnt Cadmium

Red 814 + Violet 960 + Medium Glaze 596

Uniforms

Field Grey Paint Set (Andrea Miniatures)*

* Adding to the lights Basic Skintone 815 in different ratios to vary the tones.

Bibliography

Panzer Tracts n° 2-2 – Panzerkampfwagen II

Panzer División in Russia – Concord

Publications Co n° 7047 – R. Michulec & J.

Healey



Walkaround Renault R35

PHOTOS BY ALEX VAN RIEZEN



This Syrian R35 was knocked out in the morning of the 20th of May 1948 after the kibbutz was attacked by R35s, a number of armoured cars and an infantry company. It was hit on the commanders cupola and probably also by a Molotov cocktail. This explains the burned rubber from the road wheels and other rubber suspension parts. During this attack three other R35s and four armoured cars were also knocked out by the Israeli defenders. The remaining Syrian vehicles withdrew back to the Golan.



this R35 is armed with the short 37mm SA18 gun and a 7.5mm Reibel machine gun.

The cupola was rotatable and here the vision slot is visible. The circular fitting in the foreground is a mount for an anti-aircraft MG.





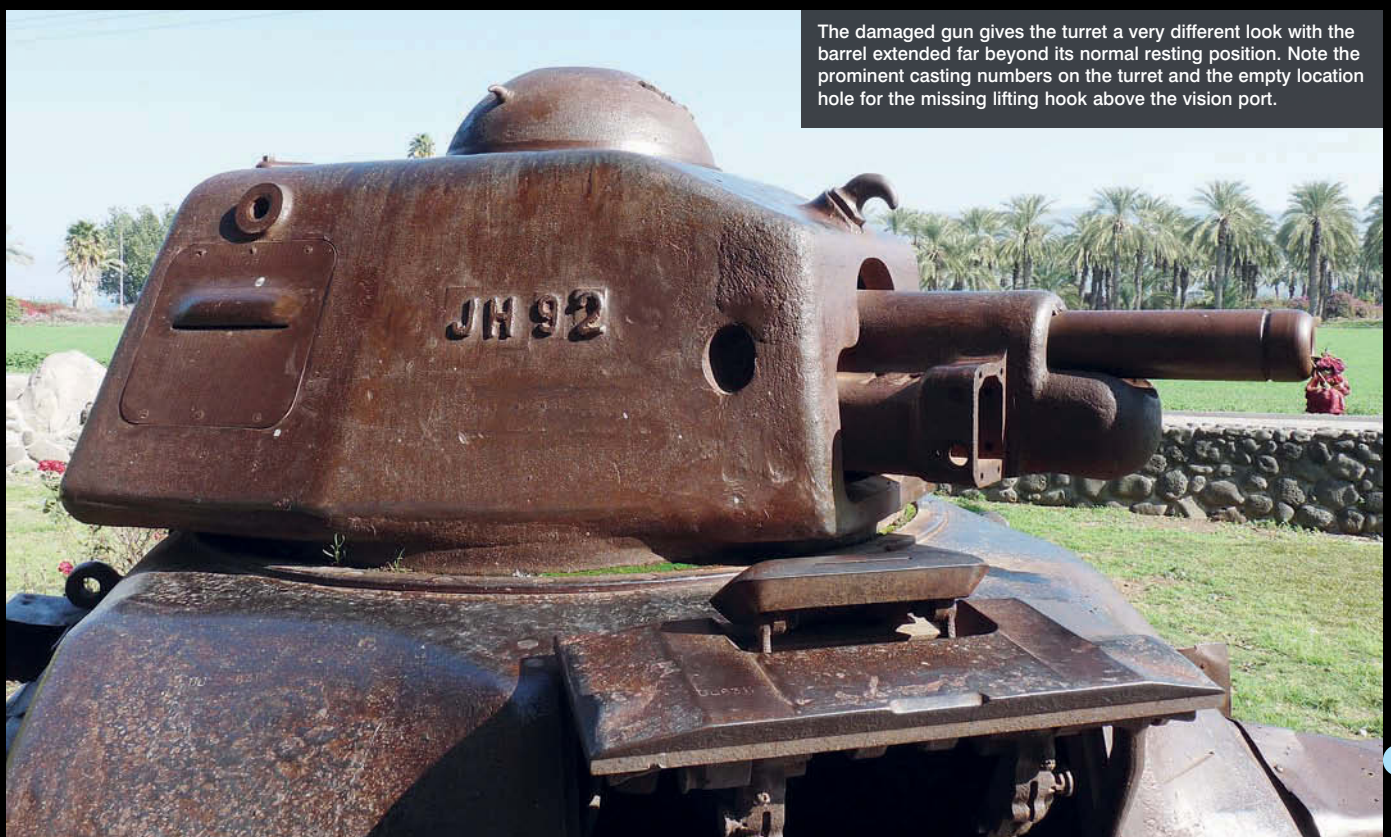
The turret cupola with a penetration clearly visible.



The shielded headlamp was a standard fitting on all French armoured vehicles.



The damaged gun gives the turret a very different look with the barrel extended far beyond its normal resting position. Note the prominent casting numbers on the turret and the empty location hole for the missing lifting hook above the vision port.





The rear turret hatch which also served as a seat when open with its oblong shaped pistol ports cover in the centre.



Another large casting number runs down the middle of the engine deck.

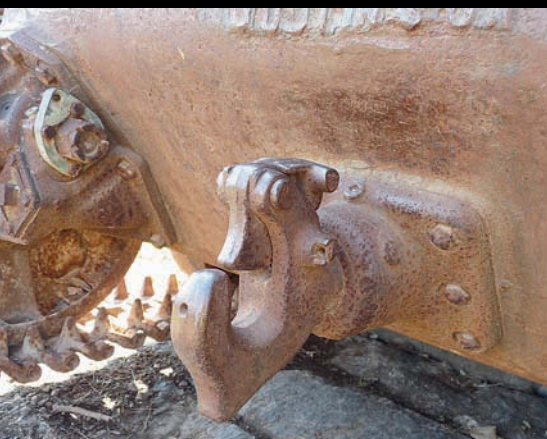


The bow is a mix of cast components and armoured plate. Note the conical head bolts and the flush fitted screw heads.

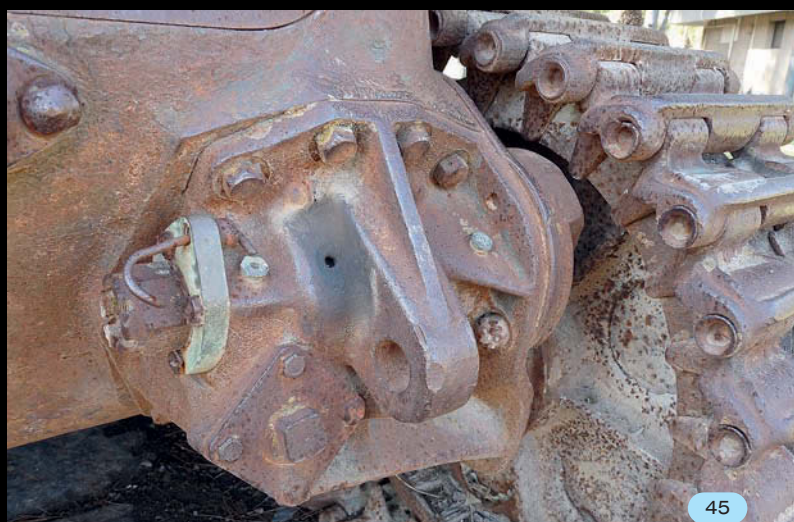




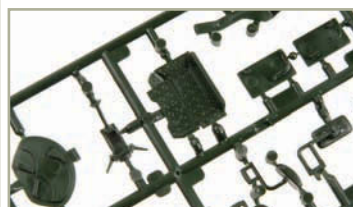
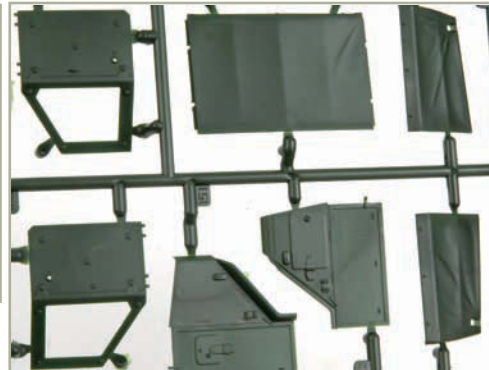
Close ups of the running gear where sadly most of the roadwheel tires have been burnt away.



The rear of the Renault with the pair of engine inspection hatches. This is another cast component as indicated by the casting number above the tow hook.



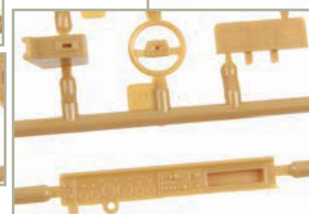
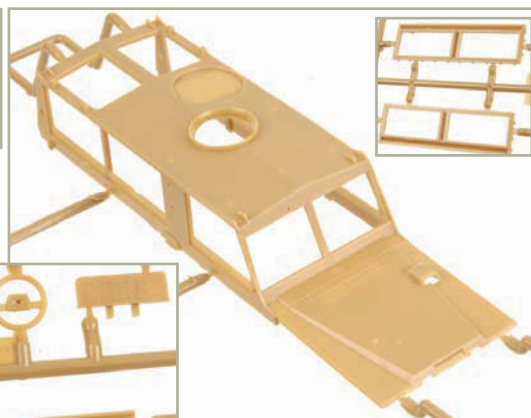
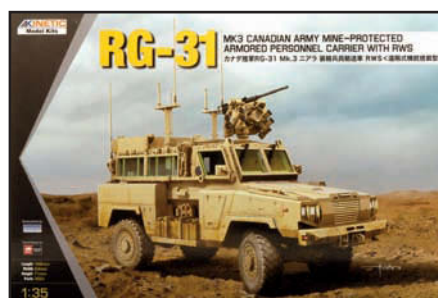
Close ups of the Idler mounting bracket and towing eye.



Revell 1:35 ATF Dingo 2 GE A2 PatSi

There's a lot on offer lately for modern vehicle modellers and Revell aren't about to miss out producing an all new kit of the Bundeswehr Dingo which has gained a good reputation for crew protection serving in Afghanistan. Revell's usual end-opening box is packed out with green plastic (as I've said before I'm not a fan of) and moulding is generally clean and sharp with just the odd shallow sink mark on some thicker parts. Ejector pin marks are large and numerous but are contained within hidden surfaces. The chassis is made from multiple parts with careful alignment being key here, a separate basic gearbox and engine are provided which will be adequate with what can be viewed from the underside. Tyres are supplied in a soft vinyl with a good tread detail but no side-wall manufacturer's markings. The cabin has

good detail and openable doors will allow this to be displayed as desired. The sides and roof are added to the interior 'tub' with the open manual weapon station and MG 3A1 all well produced. The cargo area is another separate multi-part box with a moulded canvass top and sides, the exterior looks good but interior is flat with huge ejector marks so maybe best to add the optional closed rear flap or work on your own, no doubt the aftermarket guys will be onto this. Three German and one Czech marking options are provided and some very clear, clear parts. An all-round nice looking kit from Revell and as usual, the price will allow some upgrades without breaking the bank. Revell model kits are available from all good toy and model retailers. For details visit www.revell.de/en, @RevellGermany or facebook.com/Revell



Kinetic 1:35 RG-31 Mk3 Canadian Army

The latest release of Kinetic's RG-31 is a Canadian Army version with the Remote Weapons System on-board. Most of the kit remains unchanged but as this is our first look at the RG-31 first impressions are favourable with clean moulding and good detail throughout, only several sink marks to wipe some filler in. The kit design breaks down the complex South African built shape well with all doors having an open / closed option. The slender lower body is provided in one piece with the suspension added and then the interior, all of which look well detailed and will require paint before closing with the upper body. The multi-part RWVS comes on a new sprue but the M2 .50cal is disappointing by today's

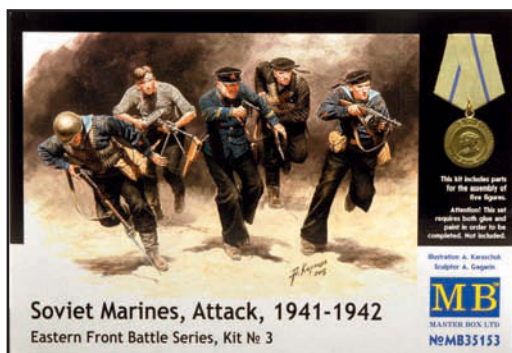
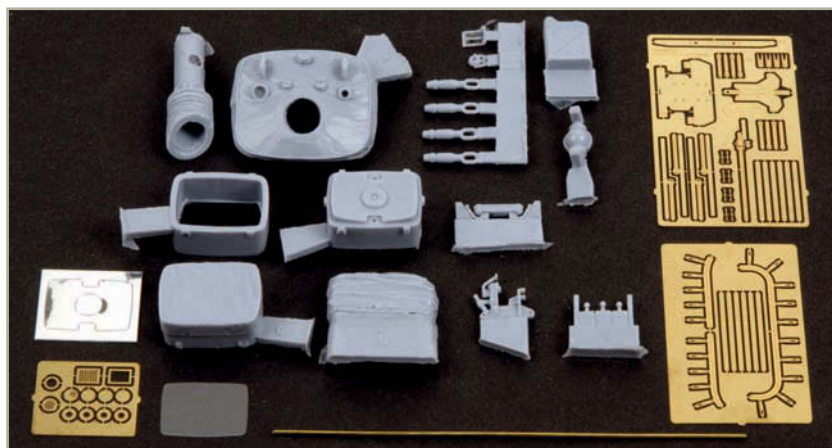
standards, counteracting this is a very nice set of hard vinyl tyres, being a major feature of the vehicle this is most welcome. Also welcome are some photoetch parts to add finesse, mainly the headlamp guards. A clear sprue provides lenses and glazing, the armoured glass has a nice thick yet crystal clear appearance but you'll have to add your own green tint. Three sets of Canadian ISAF markings are provided on the Cartagraf decal sheet, all on a base colour of overall sand. This is one of those subjects that you could go crazy with aftermarket photoetch but will still build from the box into a highly detailed model. Our sample arrived swiftly from Hobby Link Japan www.hlj.com



DEF. Model

The guys from DEF were at the Telford Scale Model World show with some superb upgrades on show, one of their latest releases is just the ticket for DML's M48 (presently on my workbench) providing some very worthwhile additions to the Patton's turret. The main parts are the mantlet with cover and a

super-detailed search-light with the option of a cover or fully detailed internals including a pre-cut reflector. Tow cable detail and a new jerry can and holder also feature in this excellent set which I'm pressing straight into service! Our thanks to DEF for the sample, www.defmodel.com



Master Box 1:35 Soviet Marines, attack 1941-42

A very niche release from MB but with a really interesting look with the Soviet Naval uniforms and excellent action poses. The action is enhanced by the well sculpted facial expressions and animation with some beautiful detail and moulding. A welcome touch is the hands realistically moulded gripping the weapons and even a

choice of side-arm for the officer. A great out of the box vignette with a knocked-out vehicle perhaps? Top quality figures again from Master Box who never disappoint and dare to produce subjects which are a little different.



Revell 1:72 T-90

Never ones to leave the small scale modeller wanting, Revell have done the business with the T-90 in seventy-second. Now we have to admit our eyesight and patience isn't up to building in 'braille scale' but we're always highly impressed with Revell's newly tooled kits, the good news is their new T-90 is up to standard! With over one hundred and fifty parts you can expect some small parts requiring careful assembly but this kit looks rich in detail with very clean and sharp moulding throughout. The lower hull is built from a floor with full detail to the undersides and side pieces incorporating roadwheel arms with the wheels themselves nicely

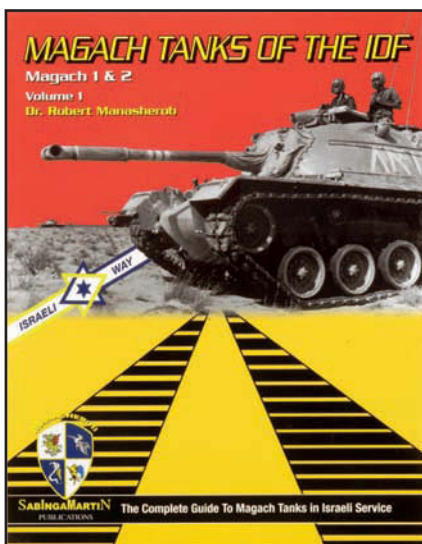
done with detail to both faces. Tracks are moulded on the sprues and nicely detailed designed in two pieces which Revell suggest you soften in hot water to make more flexible. With the top run of track completely hidden this shouldn't cause any problems. More fine detail is displayed with the upper hull and turret with separate hatches a nice addition and the rear engine deck superbly done. A delightful little kit which offers terrific value. Revell kits are available at good toy and model retailers. Revell model kits are available from all good toy and model retailers. For details visit www.revell.de/en, [@RevellGermany](https://www.facebook.com/Revell) or [facebook.com/Revell](https://www.facebook.com/Revell)



Tommy's War 1:32/54mm L Battery Royal Horse Artillery - The Action at N ry 1st September 1914

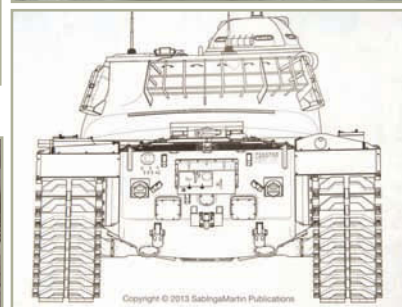
A very dramatic new release from Tommy's War in the shape of this WW1 13 Pounder gun and crew designed to depict the action at N ry in September 1914 which saw three Victoria Crosses awarded to the gun crew. This set comprises the gun, limber, spent and live rounds and the four resin crew figures. The figures are of the usual exceptionally high standard with suitably tense facial expressions and details like torn uniforms. The braces are supplied as photoetch. The gun and limber are supplied as resin kits and are well handled. The only addition required are two pairs of bracing wires for the gun. My only small complaint is that the

gun could use a few more locator pins or pegs to help with positioning some of the parts but there is some good online reference to help and it is nothing to challenge the average modeller. Instruction booklets are provided for both gun and limber and an eight page leaflet with background information on the weapon and the famous action at N ry. Superbly atmospheric and something you can thoroughly enjoy painting. The gun a limber are also available as individual kits along with an 18 pounder version too. Full details of this and the rest of the range at www.Tommyswar.co.uk



Magach Tanks of the IDF Magach 1 & 2

Dr. Robert Manasherob
Published by Sabingamartin
Softback format, 80 pages
ISBN 978 0-9841437-9-5



Great news for IDF fans, not only a new release from Sabingamartin, but the start of a new series on the Magach which naturally begins with the first of the M48s. World renowned expert on IDF armour, Dr. Robert Manasherob, begins by outlining the politics surrounding Israel's purchase and initial use which is interesting reading. A great piece on the meaning of the 'Magach' title and detailed descriptions of the men and machines of the first Battalion of M48s mixed with a large collection of previously

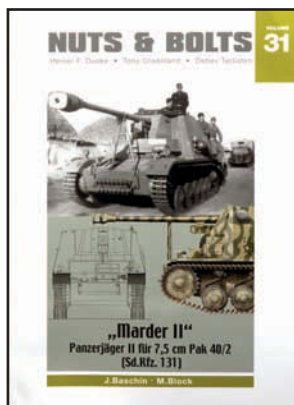
unpublished photographs is all produced in a very 'readable' manner with excellent reference shots for the modeller. More direct modelling reference comes from scale plans from all angles, perfect if you want to convert Dragon's new kit (my latest project!). Full colour walk-around shots of an M48A1 give some great close-up detail and finally superb quality colour profiles and marking details. This is a very welcome and excellent reference which will prove part of an invaluable series I'm sure. Highly recommended.



RP Toolz Hexagonal Punch and die

One of the essential components of my toolbox are my punch and die sets and if you are doing any sort of detailing or scratchbuilding work one of these will quickly become indispensable. RP Toolz are a new brand and are distributed in the UK by team at Historex Agents. RP have released a circular tool and this hexagonal set which we have been testing. Its immediately obvious that this is a high quality tool with a choice of six different sizes ranging from 0.7mm up to 2.0mm. The different sizes are marked on the transparent guide plate and on each of the tools which is a pleasing touch as I seem to spend ages trying to match the die to the correct hole in my own set. It should also help avoid the 'square peg in a round hole' situation where you try to hammer the wrong die into the wrong hole. The guide plate is a

good depth to help keep the tools aligned and the tools themselves have a good sized body to aim your hammer blow at. The inclusion of a dedicated hammer in the set is another great feature and is the perfect weight for the job. Two screw clamps are provided to hold your plastic card in position but I did find that this does slow down the process if you have to clamp and unclamp between each impression. you can of course slacken off the clamps and just use finger pressure to hold everything whilst you use the punch. This is a well thought out and high quality product that should see years of service and something that you will find indispensable. For full details of this and the round hole punch and die visit www.HistorexAgents.com

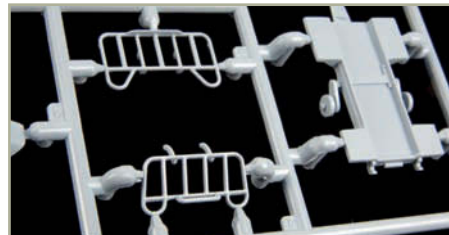
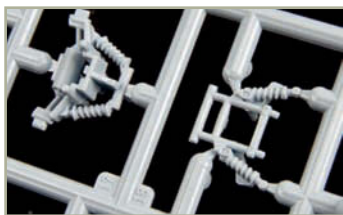
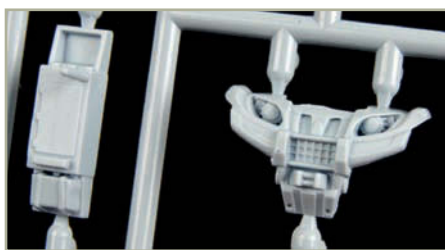
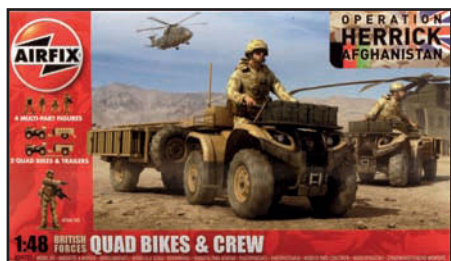


Nuts & Bolts Vol.31 'Marder II'

By J. Bashin and M. Block
Published by Nuts & Bolts
Soft back portrait format 177 pages
www.nuts-bolts.de
Available in the UK from Historex Agents

The Sd.Kfz.131 is the subject of the latest volume from the guys at Nuts & Bolts. If you're familiar with the presentation of the series this new release won't disappoint as it is packed with every point of reference you could ever wish to investigate on the vehicle. The section on development of the panzerjäger is a natural opener followed by production and deployment details throughout all fronts of WWII. Nuts & Bolts line drawings are well respected and come in modeller friendly 1:35 scale coupled with 3D line drawings of both the early and late versions including an IR equipped Marder meaning there's no need to leave anything to

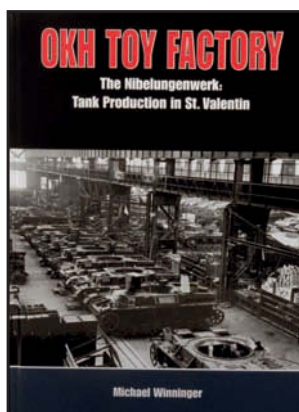
guess work if you're super-detailing your project. Preserved and restored examples are photographed for the 'walkaround' section of the book in full colour with interior and exterior covered in great detail. A highlight of the book are a fantastic selection of period photographs most of which are new to me. Some nice colour profiles and a look at a couple of detailed projects based on the Dragon kit round off a very comprehensive work on the subject, another 'one-stop' reference from Nuts & Bolts which we can only recommend highly.



Airfix 1:48 British Forces Quad Bikes & Crew

Airfix continue their niche series of quarter scale British subjects with this neat little set of two quads with trailers and four figures. Three pale grey sprues in the now familiar 'New style' Airfix with very crisp detail and sharp moulding. I'd imagine most modellers would use this set as part of a diorama and the four figures are very nicely done, far less 'chunky' than the last release in the

series from memory. The quad bikes are simple in construction but well detailed, the wheels and tyres especially nice with a few accessories (stretchers and ramps) to adorn the trailers. Airfix continue to impress us and with a preview of a Warrior in 1:48 at Telford's Scale Model World this range looks to continue and is widely available at great value prices.



OKH Toy Factory

Michael Winninger
Published by History Facts
Hardback format, 374 pages
ISBN 978 3-905944-05
www.casematepublishing.co.uk

Under the camouflage name of "Toy Factory" the Nibelungenwerk in St Valentin, Austria, was deemed to be the most modern tank production facility of its time and the most important producer of the Panzer IV series and also Jagdtiger and Ferdinand production. This is a fascinating account of the factory construction and the adaption of the surrounding land for the workers, right through to the devastating Allied bombing towards war's end. The author lives close by to the site (nowadays the remaining part of the

factory builds tractors!) and has done some incredible research to publish the copies of original documentation and some superb photographs of vehicle assembly and test areas. Certainly more of a 'historical' read than a straight modelling reference but any German armour builder (we know you're still out there!) would find this book very interesting and informative, definitely a recommended read.

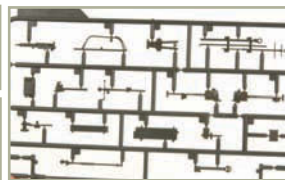
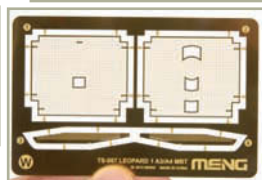
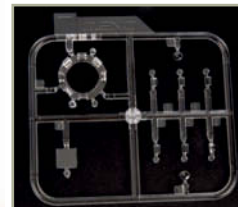


Neo for Iwata TRN1

This is a rather swanky gravity feed trigger airbrush which joins Iwata's budget Neo range and comes with a 0.35mm nozzle and a choice of interchangeable screw in paint cups. This airbrush with its pistol grip sits perfectly into your hand for an entirely natural and comfortable working position which should prevent the dreaded 'airbrush claw' cramp. The trigger action is well balanced with reasonable resistance to pull against and with a very smooth action. The screw adjuster at the back of the handle can be used to restrict the needle travel if you want to work below a selected spray size, but this is not a feature that I ever feel comfortable with. If you are used to a double action airbrush, the trigger can seem a little strange to begin with as the initial movement on the trigger will release the airflow but no paint. Pulling further back retracts the needle and allows the paint to flow and obviously the more you pull back, the wider the spray pattern. You quickly get



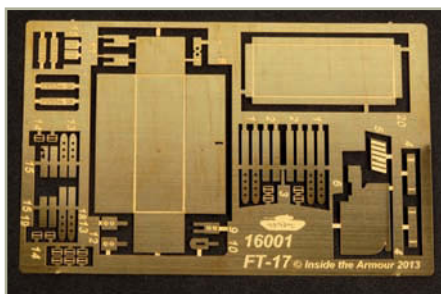
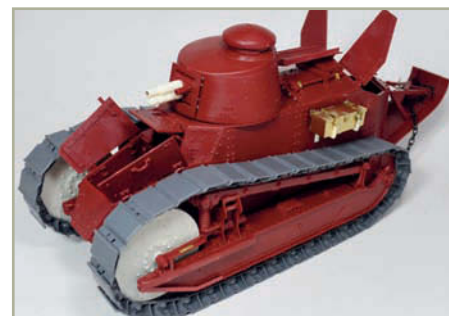
the feel and it's actually a very good way of working. The large 10cc cup makes the brush great for tackling those larger paint jobs like your 1:32 four engined bombers and switching to the smaller 2cc cup offers a less obstructed view over the top of the airbrush nozzle for more delicate close up work. The airbrush is quite capable of handling fine line work and a quick test with some Vallejo Air colour straight from the bottle produced lines down to about 0.5mm wide and no doubt a thinner paint mix would improve on this. Overall this in no way feels like a budget product and operates superbly as an excellent all round brush. If you are looking for a versatile airbrush that will cope with general modelling requirements and still cope with a scribble pattern camo scheme this is it. The Neo Trigger and the rest of the Iwata range are available from the Airbrush Company. For full details visit www.airbrushes.com



Meng 1:35 Leopard 1 A3/A4

This is another really great subject choice by Meng as some new generation early model Leopard kits are long overdue. This new kit is well up to Meng's high standards of moulding and detail and comes with a choice of rubber band and individual link tracks as well as two different thickness photoetched frets and a clear moulded sprue for the periscopes and lights. The kit comes with individual torsion bar suspension which will allow for some articulation of the running gear and wheels and the wheels are poly cap fitted for easy assembly. The roadwheels have slightly oversized hubs and lack the curved transition between the rim and the rest of the wheel but I doubt most modellers will be bothered by these discrepancies. The Sprocket however lacks the internal flange which will be visible. Moving to the hull and the moulding is great and there are excellent photoetched grilles for the engine deck and a choice of pattern depending on your chosen subject vehicle. Strangely there is weld bead detail at the front of the hull but nothing at the rear and the pair of slatted exhaust grilles on either side of the hull are quite poor as they lack the depth of the actual grilles. On the plus side the side skirts are sublime and have replicated the checkered pattern superbly and

have the locking latches all moulded at different angles which is a nice touch. The extensive vehicle tool selection has been well handled although some may want to replace the moulded clasps they really are delicate enough to get away with. Rear mudflaps are provided in two versions, folded up or hanging down but the folded versions are a solid lump and in no way convincing. Photoetched periscope guards are provided for that extra finesse. The turret is well handled but the weld bead patterns are a little over pronounced and don't replicate the texture of the real thing correctly. Some light sanding may be enough to produce a more accurate finish unless you want to recreate the correct pattern. The mantlet waterproof cover is well produced but will fix the gun elevation without some adjustment. The two part gun barrel is functional enough with separate rifled muzzle piece, something I have not seen before on a plastic kit. Markings are provided for four different vehicles and shown on a colour leaflet, with three German vehicles and a Greek example. Overall this is a good kit with much to admire, however a few minor accuracy oversights do mar it which is a shame as it could easily have been stunning.



Inside The Armour

ITA's rapidly expanding range includes some superb Churchill sets and this new release, 35085, will super-detail the rear deck of your Tamiya or AFV Club project with corrected and detailed resin exhaust systems with photoetched covers and fittings - very nice indeed.

The other new release is an upgrade set for the new Takom 1:16 FT-17 kit and this set corrects some of the weaker areas of the kit. The biggest parts are the new idler wheels which have a subtle woodgrain whereas those in the kit are smooth. There is a

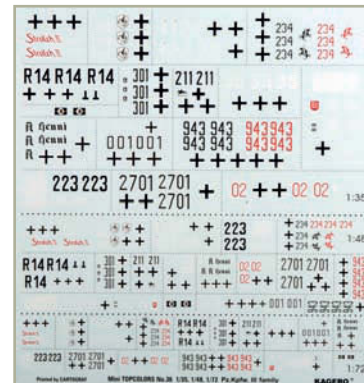
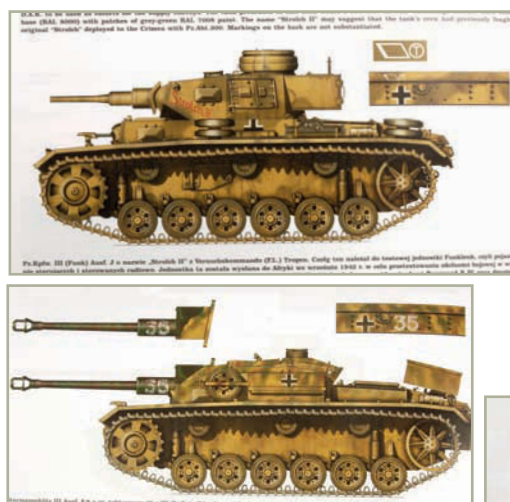
replacement gun which overcomes the centreline split of the kit parts and the new breech comes with a photoetched shield. There are new resin support brackets for the tool box and tool stowage and the tool box is completely replaced by a photoetched version with individual straps which is a huge improvement over the kit parts. The photoetched fret also provides casting numbers for the running gear and there is a rifled insert for the gun barrel. If you are building the Takom kit this upgrade set is an essential addition and adds a level of detail that really is required at this scale. www.insidethearmour.com



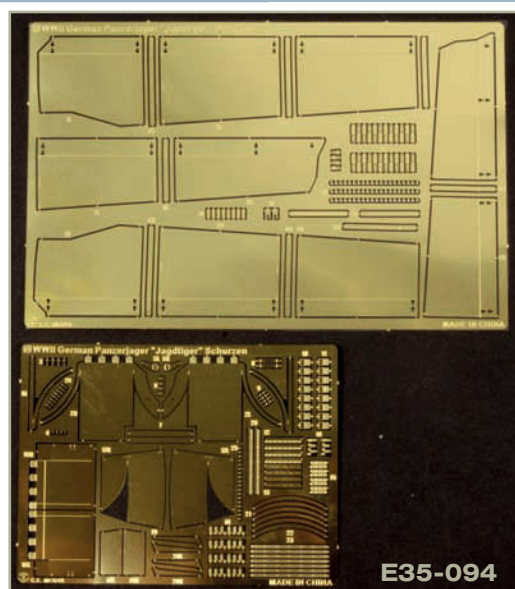
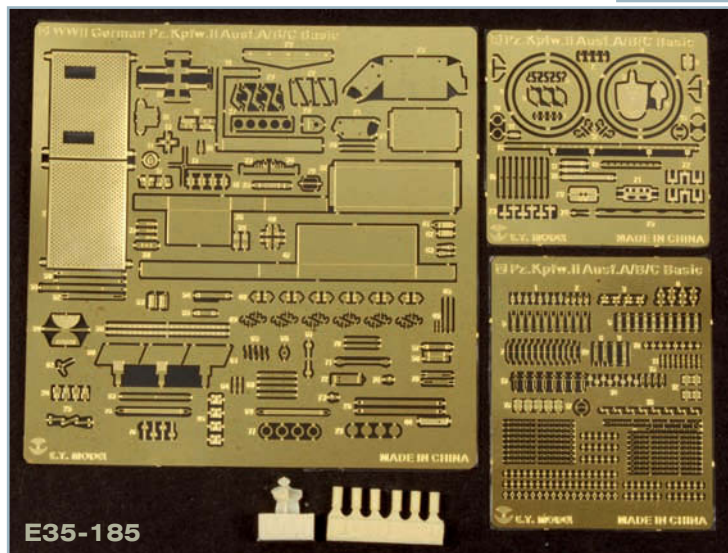
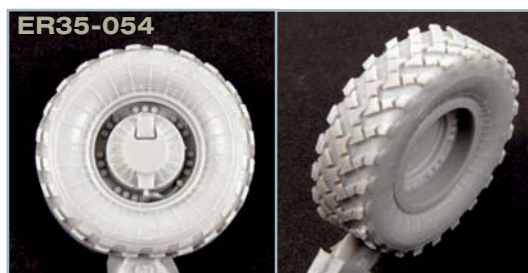
Mini Topcolors 36 Pz.Kpfw.III family

By Marek Jaszczolt and Slawomir Zajaczkowski
Published by Kagero
Softback format, 16 pages plus decal sheet
ISBN 978-8-36287-6

These 'Topcolors' illustrated profiles are very popular with aircraft modellers but there are a few in the series for armour builders. Panzer III and StuGIII are covered here with sixteen different vehicles covering J to M Ausf. tanks and F/8 and G Ausf. assault guns. The excellent colour profile of each vehicle is presented with



detailed information of operation and unit (Polish and English text) and vehicles from all fronts are featured. The Cartograf decal sheet has 1:72, 1:48 and 1:35 markings for all featured vehicles precisely printed. Our thanks to Casemate UK for our sample.

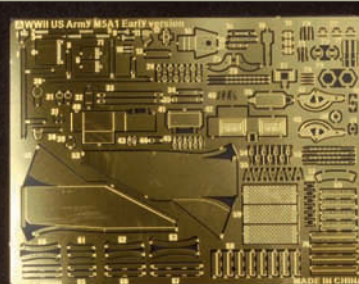
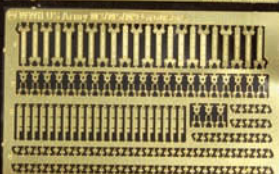
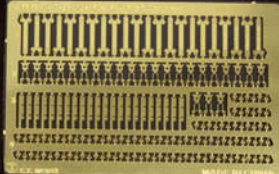


ET Model Detail Sets

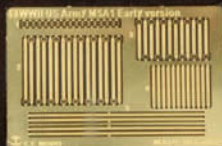
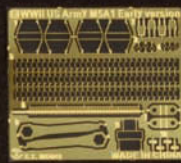
A big bundle from China's E.T. Model again with a wide variety of subjects catered for. Starting with wheels, ER35-053 is a set of six and a spare for Trumpeter's BM-21 Grad Multiple launcher and ER35-054 for Meng's GAZ 'Tiger'. The detail and casting is stunning with a realistic bulge / flat point where the tyre contacts the ground. Tamiya's Pz.Kpfw.II would look stunning with these two sets in place; E35-185 contains three frets including stowage boxes, exhaust screen and a multitude of detail. Resin smoke candles and a Notek lamp complete the package. E35-186 is a full set of fenders for Tamiya's kit which are beautifully delicate. Another popular German subject, The Jagdtiger, again from Tamiya gets a similar treatment with E35-196 containing several small frets of super-detailing and superb woven screen intake mesh, two sizes of metal tow cable and resin lamp base are also offered. EA35-094 gives you a full set of fenders / side skirts and associated fittings. Russian subjects are catered for with E35-193 for Trumpeter's ChTZS-65 Tractor, the giant engine cover and grille are handled with style in various thicknesses of brass along with delicate fittings and manufacturer's logo. Up-to-date Soviet

subjects don't miss out with Meng's new T90A getting several etched frets, resin smoke candles, ariel base and woven steel tow cable with set E35-203. E35-191 would look a treat with the wheel set providing a whole host of etched detail for the BM-21 internally and externally. Tamiya's cracking new JGSDF Type 10 gets a little lift with EA35-096 comprising of some superb mesh for the engine deck and a full turret basket. Got one of AFV Club's M5s? Here's some lovely sets to really go to town on your build; E35-187 is to suit the A1 early version with some lovely detail and if you're planning a Normandy period version why not add EA35-099 a 'Culin' hedge cutter? ideal in etched brass which would also suit an M3 and M8. Also for M3/M5/M8 is a set of track grousers (rather you than me to assemble these!) Finally, a very impressive set of U.S. light tank stencil templates. Nothing new to have airbrush stencils in etched brass but these are in an ultra-thin material which is very flexible. Five frets cover the smallest text to large national markings. First rate quality across the board as always from E.T. www.etmodeller.com has details of their enormous range which is available Worldwide.

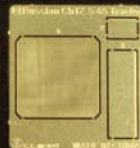
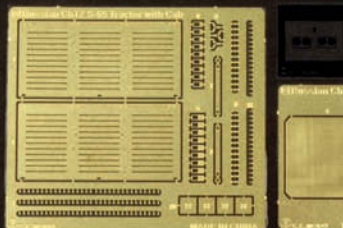
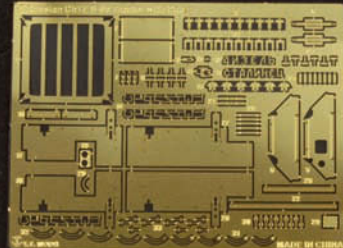
EA35-100



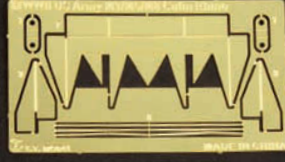
E35-187



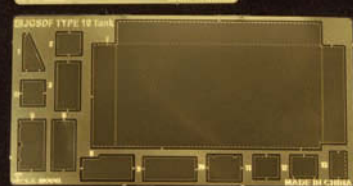
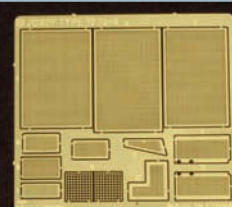
E35-193



EA35-099



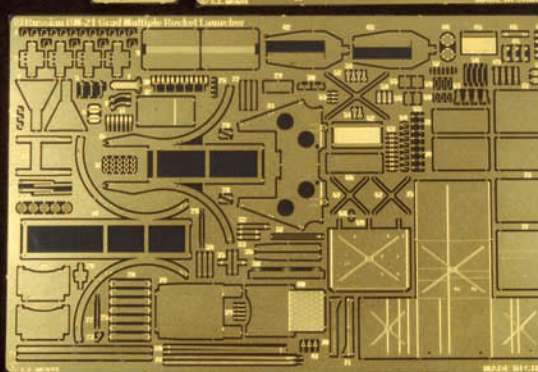
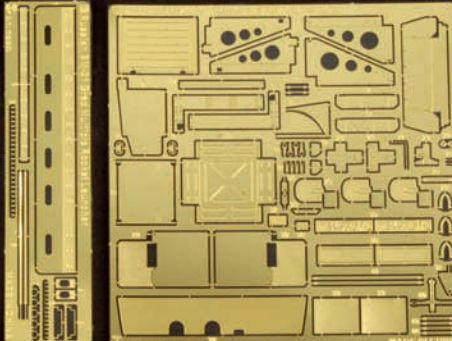
EA35-096



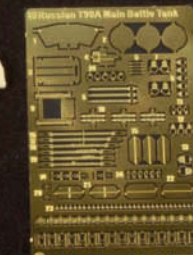
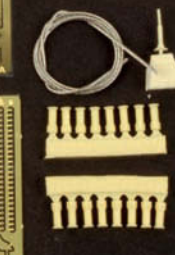
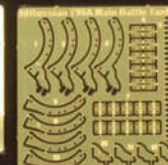
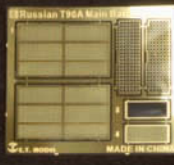
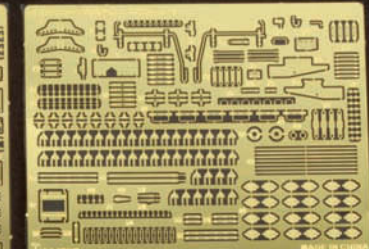
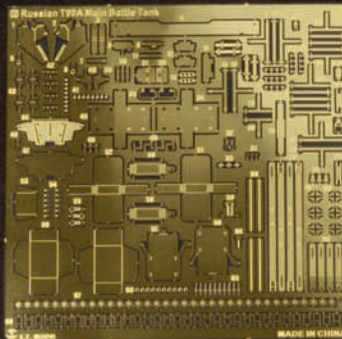
EA35-098



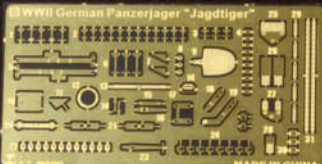
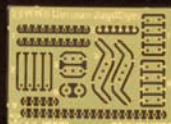
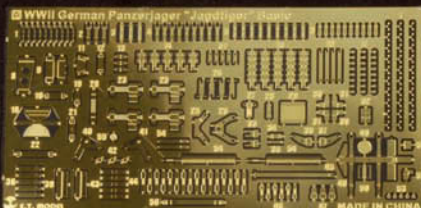
E35-191



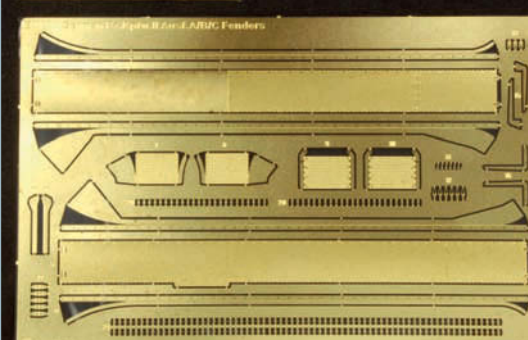
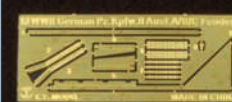
E35-203



E35-196



E35-186



The Airbrush Company Ltd



INTRODUCING

neo

for iwata

TRIGGER AIRBRUSHES



IW-NEO-TRN2



IW-NEO-TRN1

**0.35mm Gravity-Feed
Trigger Airbrush**
Includes Interchangeable 9ml
and 1.8ml cups

**0.5mm Side-Feed
Trigger Airbrush**
Includes a 7ml and 14ml
gravity side-feed cup
and a 28ml Iwata Big Mouth Bottle



LIFECOLOR

ACRYLIC HOBBY COLORS



....Bringing
Colour to Life



Above model has been airbrushed with the new
LifeColor Easy 3 Leaking and Stains: Damp Effect Set

4 New releases from LifeColor
Visit www.Airbrushes.com to see the full range



The Airbrush Company



@AirbrushCompany



The Airbrush Company Ltd. Marlborough Road, Lancing Business Park, Lancing, West Sussex BN15 8UF
www.Airbrushes.com Tel. 01903 767800 sales@airbrushes.com



*The Monsters have landed!
Takom Object 279 and St Chamond*



*Xact T80U in stock
and Tiger coming soon*

*Inside the Armour
Resin and PE
Upgrade for the
Takom FT-17*

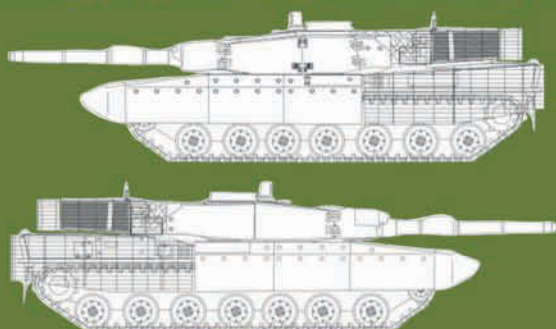


*ITA72
Resin and PE
Complete 1/72 kit
of the Leopard 2A4SG*



And COMING SOON

1/35 Leopard 2A4SG Conversion



*M113 Igla
Conversion*



Inside the Armour
Dedicated to Detail

www.insidethearmour.com
07972 177117
4 Duncombe Lane
Bristol
BS15 1NR

ITA72
One seventy-second of the size, ALL of the detail

DISTRIBUTORS OF



ZBL 09

CHINESE SNOW LEOPARD

Lukasz Orczyc - Musialek gets some powerful pixels on the Hobbyboss 1:35 kit



8x8 vehicles have become more popular in recent years. The U.S. Stryker is the icon of this trend – it became the international standard for other multi-wheeled projects created in many other countries – Ukraine, Russia, Poland and more promote indigenous 8x8 weapon carriers. During current military conflicts in Iraq and Afghanistan 8x8 APCs showed their advantages, where they fulfill the role of a traditional APC enhanced with extensive add-on armour and a more complex protection system. This does not guarantee a total IED shield but raises the safety limits to a sufficient level. They are fundamentally designed as off-road vehicles (with amphibious capability) but they also work well in urban surroundings which is clearly demonstrated in thousands of pictures taken in war conditions. The ZBL-09 came out with all those advantages and it was presented for the first time during the military parade in Beijing for the 60th anniversary of the founding of People's Republic of China. The

pictures taken there show the 30mm version mostly. It is certain that Chinese engineers prepared the vehicle as a base for other weapon systems but for now it is hard to see them. Here are the specific versions:

- ZSL 09 - Armoured Personnel Carrier;
- ZBL 09 - IFV version with a turret armed with a 30 mm gun, coaxial 7.62 mm gun and HJ-73 / HJ-8 anti-tank missiles;
- PLL 09 - self-propelled gun howitzer version armed with a 122 mm howitzer;
- ZTL 09 - assault gun version armed with a 105 mm gun;

Other special variants include communications, command and engineering types (bridge laying and mine clearing). The air defense version with a 35 mm gun and 120 mm mortar are developed to be installed onto the 09 chassis.

The exact number of vehicles is unknown. For now the ZBL - 09 is presented in defense industry shows as an exportable weapon system.



The Hobbyboss kit

Hobby Boss have designed a good kit – almost 260 parts in 9 sand coloured sprues, with upper and lower hulls. They are well moulded and highly detailed. The 8 rubber tires could be changed for resin versions but I do think any have been released yet by the aftermarket manufacturers. PE parts consist mostly of engine grilles and covers and there is a clear sprue for the periscopes. Unfortunately the interior is totally empty but this is fairly typical for Hobby Boss kits. In my opinion the kit can be built even by a beginner.

As always with the Hobby Boss kits the building stage was

straightforward and I did not have any problems with the parts. I added the antenna mounts from RB Model and PE chains for smoke grenade launchers. The PE parts included in the set fit well and they fulfill their role. The brass elements could have been used in more locations but for now we can only change them for scratch build parts. The tow cable, turret basket, workable tool clamps and some smaller details should be replaced. I hope some manufactures will prepare those parts to enrich the kit, maybe E.T. Model or Voyager? Because the antenna mounts are similar to CV 90 parts I replaced them for RB Model ones.

What I like the most is the shape of the vehicle – modern but so angular, a bit similar to the other 8x8 vehicles. And the pixel painting! It is a challenge to paint or to be more specific – to mask!



Pixel Painting

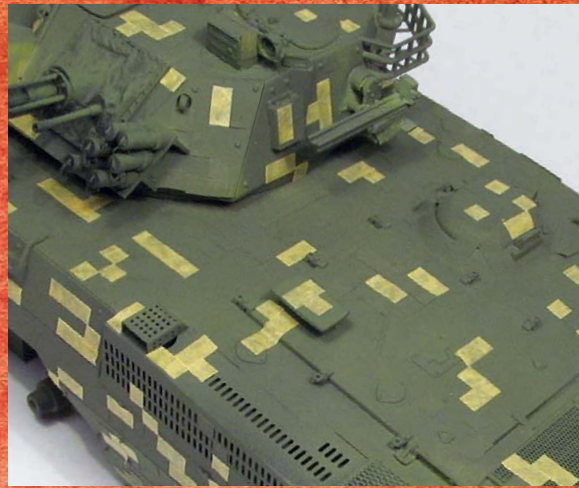
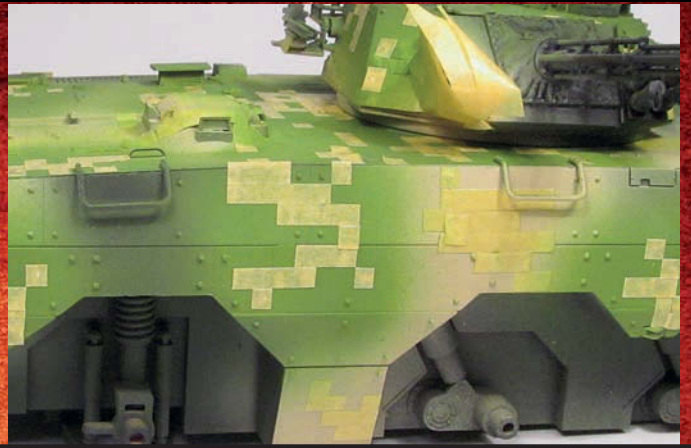
When a friend of mine asked me to build this kit I started with searching through the Internet sources. My aim was clear – something interesting and eye-catching. Well, the choice was not so wide – the two camo schemes on the instruction sheet were the only available in the world wide web. After discussion we decided that the pixel camo is more interesting and I started preparation for the painting stage.

First of all I needed to find the way of spraying and masking, the order of tape application and correct paints. I decided to paint the kit with Vallejo Model Color acrylic paints and here is the sequence of use:

819 Iraqi Sand;
833 German Camo Bright Green;
979 German Camo Dark Green (first I used 893 U.S. Dark Green but it was too pale and there was not the contrast between both green shades);
890 Reflective Green mixed with
976 Buff as the last layer.

I found an interesting step by step on a Polish forum where one of the modellers presented his work with this kind of camouflage and I decided to make use of his idea. The masking was built up using strips of masking tape cut to different lengths to match the real pattern.





Weathering

After a coat of gloss varnish had dried I started with a Dark Wash application. It was diluted by MIG's thinner and applied with a soft brush. The kit became more sharpened when all elements were surrounded by a dark shade - Lovely! The next step was to paint streaks prepared from oil paints: Yellow Ochre, Cerulean Blue, Olive Green and Golden Green. With these paints I tinted the wheel rims despite the fact that I knew this work would be covered by dust and mud pigments. Note the different tires painting - the white rings were especially seen on the 60th anniversary of the founding of the People's Republic of China which took place on the 1st of October 2009. I decided to mix them with typical black/grey shade tires. In the end it was a good choice because it added interest to the overall look of the kit, even if they weren't clearly visible due to the mud.

To simulate the dirt streaks I used Streaking Grime from AK worked with MIG's thinner. Then I started with chips and scratches. I wanted to break up the pixels a little, so I used 822 German Camo Black Brown the same as 982 Cavalry Brown and 864 Natural Steel. The main tools were 5/0 brush, a sponge and a pencil. I remembered the ZBD-05 that I built last year where scratches and rust were clearly visible (even in the Chinese army!). Both the ZBD and ZBL are in service from almost the same time so they could be worn in the same manner. The other problem is that almost all pictures I managed to find on the Internet show the vehicle in the urban conditions and were taken from a distance. Any signs of use are unfortunately not visible.

Once the chips were painted I airbrushed the pre-dusting. I used

873 US Field Drab which gives a nice dust simulation and is good enough as a base for next pigments application. I focused on applying more pigments onto the mudguards and splashes of dry soil around the entire model.

I used MIG's products:

- Dry Mud;
- Rubbel Dust;
- Light European Earth.

To give the field look of the vehicle I prepared light scratches made by little trees and bushes. This is very easy to do - you need only sharp blade or even a toothpick can be useful. The most important is to be subtle and not overdo. It is easy to scratch too deep and the best solution is to avoid such failure as to put the blade on the model's surface and pull it with minimum pressure.





Final touches

In the end I prepared some details to enrich the final look. First I added the tarpaulin made from thin sheet of paper. It was soaked with water, shaped onto the kit (during this process it became almost dry) and then soaked once more but this time with white glue diluted with water. When it was completely dry I painted it with green/grey.

The chain from RB Model is a great part to add for any military vehicle. I avoided painting it because it is

really hard to achieve the proper effect. To colorise I use AK blackening liquid which gives stunning results after a couple of minutes. Some rusty pigments were needed and then the chain was glued to the kit with water diluted white glue mentioned above (it dries slowly but does not leave any marks and the part sticks to the vehicle perfectly).

The spent shell casings were prepared from thin plastic rod,

painted silver and glued in the same way as the chain. I adopted the same idea I used on my ZBD-05 because both vehicles use the same armament and it was natural to make it the same in both cases. The last stage was to add stains simulating different liquids spilled on the vehicle. Water and dark paints, turpentine and Oil and Grease Stain Mixture plus other "dirt" fluids were added here and there to make it more realistic.



The kit was ready!

I am pleased with the result of my work. This was my first attempt at a pixel camo and I am satisfied with the effect. It was my second

Chinese vehicle I built and probably I will make more Chinese AFVs since the market is full of them thanks to Hobby Boss.



Armament

Ukrainian modified 30 mm automatic gun in two man turret with 7.62 mm coaxial machine gun fitted to the left side of the main gun +the launcher system with the wire-guided Hong Jian-73C anti-tank guided missiles; 12 smoke-grenades discharger are mounted on the front of the turret.

Protection

High hardness armour steel on hull and the turret as a protection against 12,7 mm (front), 7.62mm (sides) and 7.62mm (rear).

Propulsion

Water-cooled Diesel engine DEUTZ BF6M1015 CP, independent suspension system and axles with differential lock, 100 km/h on road, 8 km/h on water, climbing a 30° slope, crossing a 1.8m trench and climbing over a 0.55 m vertical obstacle, range 800 km.

Accessories

NBC protection system, automatic fire extinguishing system, central tire inflation system, night vision, GPS, air conditioning system, winch.

Crew

3+7

Dimensions

Length 8.0m, width 3.0m, height 2.1m, weight 21 tons



ЗСУ

Historex Agents

Rinaldi Studio Press



HISTOREX AGENTS, Wellington House,
157 Shargate Street, Dover, Kent, CT17 9BZ, ENGLAND.
Telephone 01304 206720 Fax 01304 204528



HISTOREX AGENTS have been established since 1967
With 46 years of trading we are one of the longest running
Model Soldier Mail Order House's around today.

The Small Shop Tools



SMS001	Photo Etch Bending Tool 2" Mini Hold and Fold	£23.70
SMS002	Etch Bending Tool The "BUG" RTH Hold & Fold	£31.60
SMS003	Etch Bending Tool 4" Mk IV RTH Hold & Fold	£39.45
SMS004	Etch Bending Tool 5.5" Hold and Fold	£55.25
SMS005	Etch Bending Tool 8" Mk R Multi-head Hold Fold	£59.20
SMS006	Etch Bending & Rolling Deluxe Brass Assist	£51.30
SMS007	Extended Roller Set - Use with Brass Assist	£11.05
SMS008	Etch Bending Tool - Wire Forming Tool	£39.45
SMS009	The Nutter Set - Scale Model Nuts & Rivets	£90.80
SMS010	Tri-Foil for use with Nutter and/or Scratchbuilding	£7.90
SMS011	Square Tip Set	£15.80
SMS012	Hex Tip Set	£15.80
SMS013	Wire Assist	£15.80
SMS014	Photo Etch Standard Rolling Set	£21.70
SMS015	Photo Etch Cut-Off Set - Standard	£7.50
SMS016	Photo Etch Cut-Off Set - Large	£11.85
SMS70001	Aluminum File Handle w/6 Mini Needle Files	£15.65
SMS70005	Pin Vise with 6 Assorted Drills w/Special	£14.85

SOVEREIGN



S2KM001 1:1 1/1 Scale No 36 Mills Grenade £18.00
S2KM002 1:1 Mills grenade figure/bust base £15.00

SS2KA001	1/35th Ammo pack for 2pd Anti Tank Gun	£8.30
S2KA002	1/35th British fuel cans	£5.20
S2KA004	1/35th Pzr diorama (complete kit)	£57.40
S2KA005	1/35th Pz Kpfw II turret stowage bin	£4.20
S2KA006	1/35th Zundapp KS750 update (2 sets)	£8.30
S2KA007	1/35th * Sd Kfz 222 wheel set (for Tristar kit)	£7.30
S2KA008	1/35th Zundapp KS750 combination update +	£12.50
S2KA009	1/35th BMW R75 update (2 sets)	£8.30
S2KA010	1/35th BMW R75 combination update + trailer	£12.50
S2KA011	1/35th Sd Kfz 222 wheel set (for Hobby Boss kit)	£7.30
S2KA012	1/35th Humber scout car wheel set (for Bronco)	£7.30
S2KA013	1/35th Cromwell/Challenger road wheel set	£12.50
S2KA014	1/35th Sd Kfz 222 update set (for Hobby Boss)	£16.50
S2KA015	1/35th Sd Kfz 223 update set (for Hobby Boss)	£18.00
S2KA016	1/35th Opel Maultier wheel set	£7.20
S2KA017	1/35th Light Tank suspension update (Vulkan)	£7.20
S2KA018	1/35th M-ATV Resin wheel set (for Kinetic kit)	£12.30
S2KA019	1/35th Sd Kfz 231/2 wheel set (for AFV Club kit)	£12.30

model scene

Grass mats

MSF534	1/35th Steppe - late summer with stones	£16.05
MSF541	1/35th Embankment - Spring	£14.20
MSF542	1/35th Embankment - Early Summer	£14.20
MSF543	1/35th Embankment - Late Summer	£14.20
MSF551	1/35th Embankment - Spring with dry turfs	£14.20
MSF600	1/35th Forest Floor - Basic	£13.30
MSF601	1/35th Forest Floor - Spring	£17.90
MSF602	1/35th Forest Floor - Early Summer	£17.90
MSF603	1/35th Forest Floor - Late Summer	£17.90
MSF610	1/35th Forest Floor - Pinewood	£16.05
MSF620	1/35th Forest Floor - Blueberries	£17.90
MSF630	1/35th Heathland	£17.90
MSF712	1/35th Early Summer Stony Steppe - few stones	£17.00
MSF713	1/35th Late Summer Stony Steppe - few stones	£17.00
MSF722	1/35th Early Summer Stony Steppe - more stones	£17.00
MSF723	1/35th Late Summer Stony Steppe - more stones	£17.00
MSF732	1/35th Early Summer Stony Steppe - many stones	£17.00
MSF733	1/35th Late Summer Stony Steppe - many stones	£17.00

NIGHT VISION

DVD'S

NV1000	F.A.Q. Vol.1 - The Pigments - by Mig Jimenez	£13.55
NV1001	F.A.Q. Vol.2 - Airbrush Techniques by A Wilder	£13.55

Compendium DVD



CF021	DVD Warhorses - Converting & Painting Horses	£15.25
CF022	DVD Realistic WWII Aircraft Finishing Techniques	£15.25
CF068	DVD Airbrush Painting Techniques - DVD	£15.25
CF069	DVD Painting & Finishing Military Figures - DVD	£15.25
CF077	DVD Realistic Model Buildings by Marcus Nicholls	£15.25
CF097	DVD Terrain Modeling - DVD	£15.25
CF098	DVD Modeling & Detailing German Armour - DVD	£15.25
CF099	DVD Realistic Armor Finishing Techniques	£15.25
CF169	DVD Accurate Model Aircraft Detailing	£15.25
CF173	DVD Accurate Model AFV Detailing	£15.25

UK Postage charges

Orders below £20.00 Postage is £1.95
Orders below £30.00 Postage is £2.95
Orders below £40.00 Postage is £3.95
Orders below £50.00 Postage is £4.95
Orders above £50.00 Postage is £5.25
UK Next day delivery Mainland only £6.75



PANZER AGES



APML1	BOOK Model Laboratory 1 SdKfz 171 Panther G	£5.75
APML2	BOOK Model Laboratory 2 Junkers 88 A-4	£6.70
EMP3	BOOK Euro Modelismo Tanks in Russia 1941/42	£16.55
EMP4	BOOK Euro Modelismo Rarities Modelling Armoured	£14.90
EMP8	BOOK Euro Modelismo German Army Uniforms	£34.70
EMP13	BOOK Euro Modelismo STUG 3	£20.65
EMP14	BOOK Sculpting Figures - Body Language	£14.05
EMP15	BOOK Euro Modelismo Vignettes & Sceneries -	£30.15
EMP16	BOOK Euro Modelismo Tanks in Russia Part 3	£16.55
EMP21	BOOK Tanks in Russia IV	£18.25
EMPDAK	BOOK D.A.K. Deutsches Afrika Korps	£15.75
PANZ41	BOOK Panzer Aces Issue 41	£8.95
PAP1	BOOK Panzer Aces Profiles 1 - Guide to camouflage	£16.25

MXpression

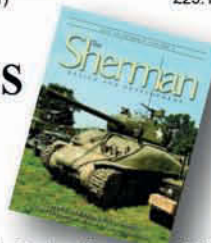
MX48001	1/48th Hetzer Skoda Ambush MASK	£13.20
MX48002	1/48th Hetzer BMM Ambush MASK	£13.20
MXA001	Intelligent Panzer Putty	£15.35
MXDVD02	DVD Painting a 1/35 Scale Figure with Acrylic	£11.50
MXDVD03	DVD Adam Wilder Authentic Metal	£13.25

MrBLACK PUBLICATIONS



SMH-FM1	Scale Model Handbook - Figure Modelling 1	£13.95
SMH-FM2	Scale Model Handbook - Figure Modelling 2	£13.95
SMH-FM3	Scale Model Handbook - Figure Modelling 3	£13.95
SMH-FM4	Scale Model Handbook - Figure Modelling 4	£13.95
SMH-FM5	Scale Model Handbook - Figure Modelling 5	£13.95
SMH-FM6	Scale Model Handbook - Figure Modelling 6	£13.95
SMH-FM7	Scale Model Handbook - Figure Modelling 7	£13.95
SMH-FM8	Scale Model Handbook - Figure Modelling 8	£13.95
SMH-FM9	Scale Model Handbook - Figure Modelling 9	£13.95

MILITARY MINIATURES in Review



MMIR57	BOOK Military Miniatures in Review 57	£7.95
MMIR58	BOOK Military Miniatures in Review 58	£7.95
MMIR88	GUN BOOK The Eighty Eight	£15.65
MMIRAA28	BOOK Allied Axis The Photo Journal of WWII	£12.95
MMIRAA29	BOOK Allied Axis The Photo Journal of WWII	£12.95
MMIRCHURCH	BOOK The Churchill	£15.85
MMIRCHURCH2	BOOK The Churchill Pt.2	£15.85
MMIRHW	BOOK Visual History: Heavy Wreckers	£15.85
MMIRSOS1	BOOK Son of Sherman Vol.1 - softcopy	£38.00
MMIRSTAGH	BOOK The Staghound A Visual History	£15.85

ANDREA COLOUR PAINT



ACS1	Flesh Paint Set - The Easy Way to Paint Skin	£17.00
ACS2	Black Paint Set	£17.00
ACS3	White Paint Set	£17.00
ACS4	Red Paint Set	£17.00
ACS5	Blue Paint Set	£17.00
ACS6	Inks Set - Acrylic inks for figures Satin finish	£17.00
ACS7	Silver Paint Set	£17.00
ACS8	Gold Paint set	£17.00
ACS9	Green paint set	£17.00
ACS9	Green paint set	£17.00
ACS10	Field Grey Paint set	£17.40
ACS11	Yellow Paint	£18.30
ACS12	MMM Paint Set	£18.30
ACS13	Brown Paint Set	£18.30

Sales@HistorexAgents.com

www.HistorexAgents.com

Since 1995, HobbyLink Japan has been providing quality model kits and accessories, worldwide.



Scan this QR code to go directly to a great selection of scale model kits.



Our greatest service upgrade yet!
Shipping now cheaper than ever!



TKO2002 1/35 French Heavy Tank St. Chamond
Early Type From Takom



hlj.com/afv



HobbyLink Japan



@hobbylink



hobbylink.tv

PROFILE GUIDE



SOVIET WAR COLORS 1936-1945

AK 270 Soviet War Colors 1936-45

SOVIET WAR COLORS 1936-45

This book analyzes original, eye-catching color variants and camouflage patterns introduced by the Soviet Army from the Spanish Civil War to the World War II. Throughout the 96 pages, guides the modeler to find inspiration for the next project. The book contains more than 180 color renderings showing the many camouflage patterns used on common vehicles, and oddities used by the Soviet forces. Included the reader will find vehicles such as the T-26, T-34 and many more. A special section of the book will help us translate the colors used by the Soviets like the 4BO and its variants. The perfect complement for new acrylic set AK 561 Soviet Camouflages.

The definitive guide to get into the Soviet army



More than 180 profiles ready for modeling



SOVIET CAMOUFLAGES

AK 561 Soviet Camouflages Color Set

Soviet Camouflages is a set of 6 acrylic paints essential for painting the authentic camouflage colors used during the Second World War by the Soviet Army. Our new colors have been carefully researched for accuracy and are presented in our familiar easy to use bottles.



SOVIET CAMOUFLAGES

Soviet Tanks Colors from 1935 to 1945

AK 749

3B AU
Basic Protector
Alkino-Uretanovaya



AK 748

7K Russian Tan

AK 746

4BO Russian green



AK 751

Washable white paint

AK 746

4BO Russian green

AK 747

6K Russian brown



AK 750

Protective green



newproducts
Jan2014



You Tube

www.ak-interactive.com
Phone & Fax: (+34) 941 22 30 64
info@ak-interactive.com

