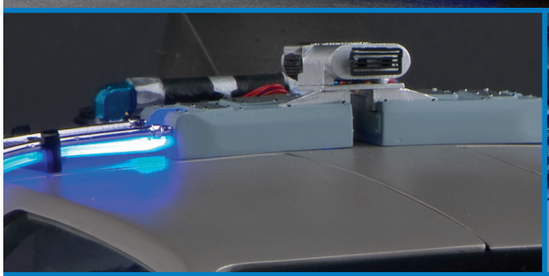
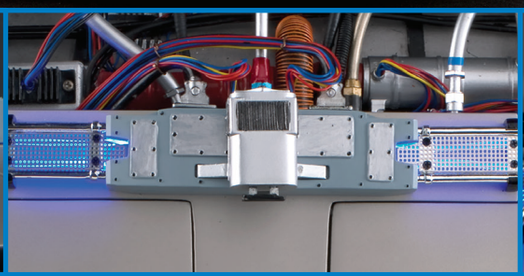
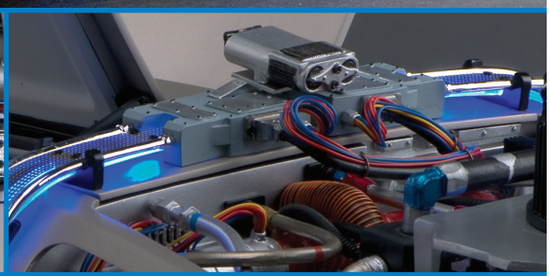
BUILD THE BACK TO THE FUTURE™ DELOREAN

ISSUE 109









FANHOME

BUILD THE ICONIC 80s TIME MACHINE IN 1:8 SCALE

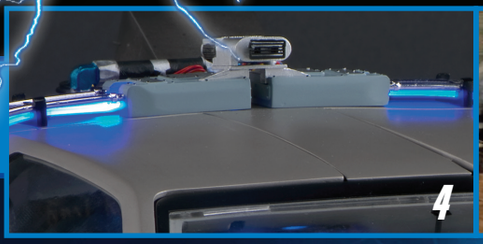
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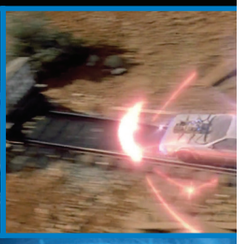
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BUILD THE

BACK TO THE FUTURE DELOREAN

ISSUE 109





CONTENTS

4 **DRIVE TIME**
Add the time field generator to the top of your DeLorean by following the illustrated guide.

8 **INDUSTRIAL LIGHT & MAGIC**
The final part of our look at the legendary effects company and their work on the *Back to the Future* trilogy.

10 **A TIME TRAVELLER'S GUIDE**
Before he takes a ride in the DeLorean, Marty's dream car is a Toyota 4x4 – which he gets to drive... eventually.



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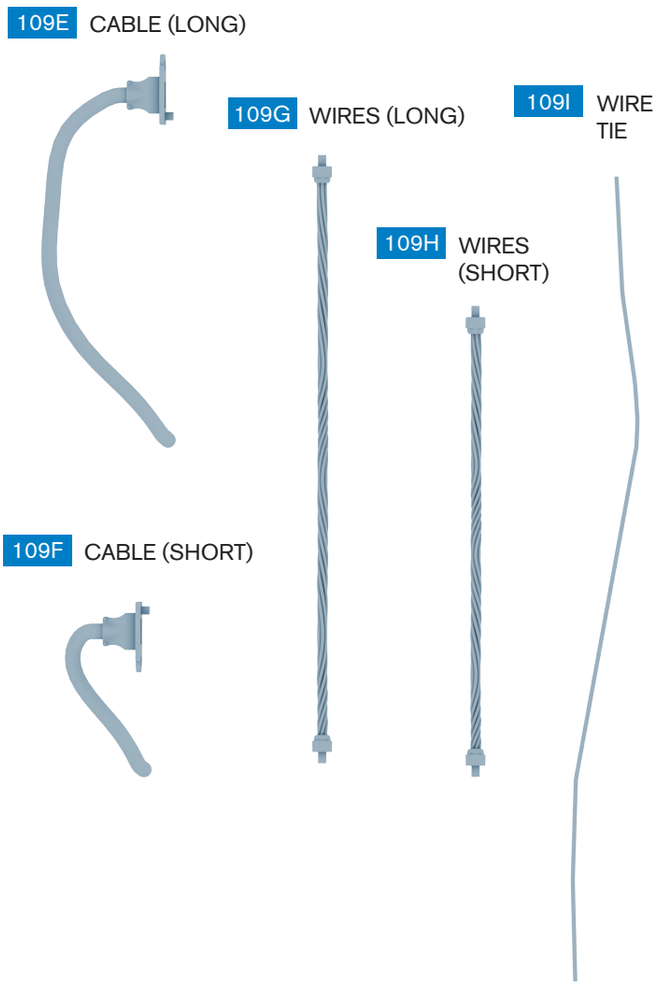


YOUR CAR PARTS

With this issue you receive more cables and wires, plus the time field generator for your DeLorean and fixing screws.

TIME FIELD GENERATOR







CUSTOMER SERVICES

UK
Email customer.service@deagostini.co.uk

USA
Email support@usa.deagostini.com



More information at **fanhome.com**

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DRIVE TIME

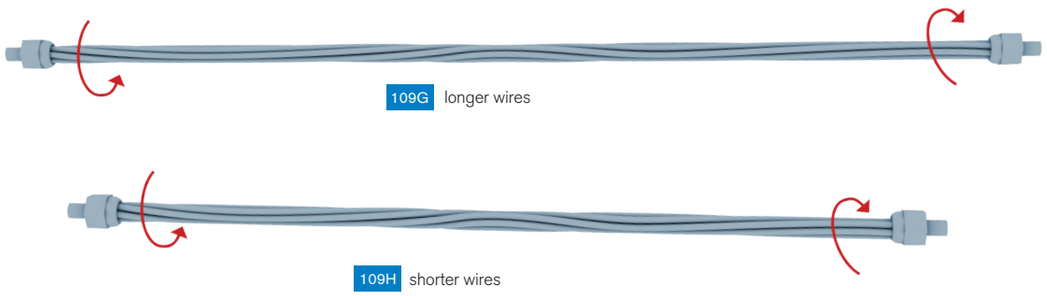
Add the time field generator to your DeLorean along with more wires and cables.

With this issue, , follow the step-by-step guide to fit the time field generator to the junction boxes at the top of your DeLorean, along with more wires and cables.

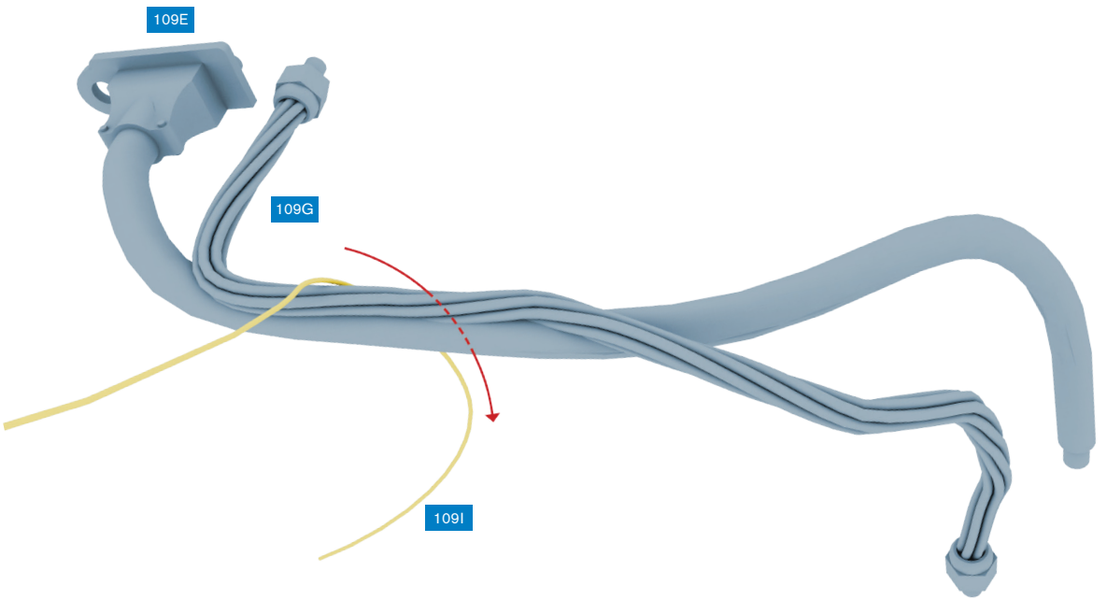


TIME FIELD GENERATOR

STEP 1 ›› Take the two bundles of wires 109G (the longer wires) and 109H. Gently twist them to straighten the wires a little.

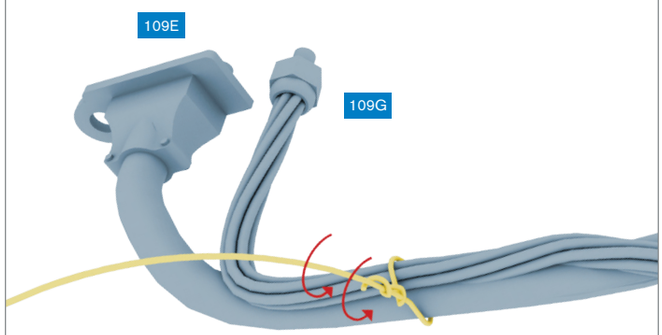


STEP 2 ›› Take part 109E and the wires 109G (long wires). Pass a black wire tie (109I) around them as shown.

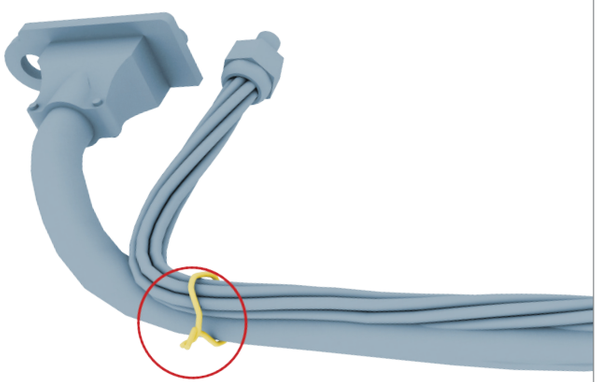


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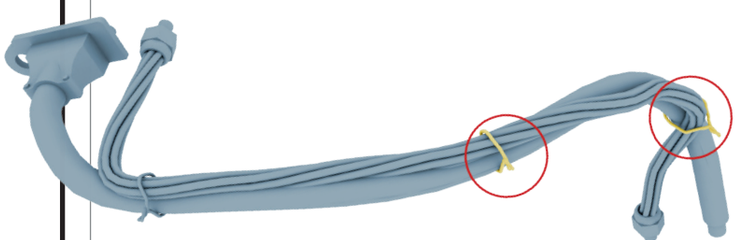
STEP 3 ›› Twist the black wire tie firmly as shown. This may be easier using pliers.



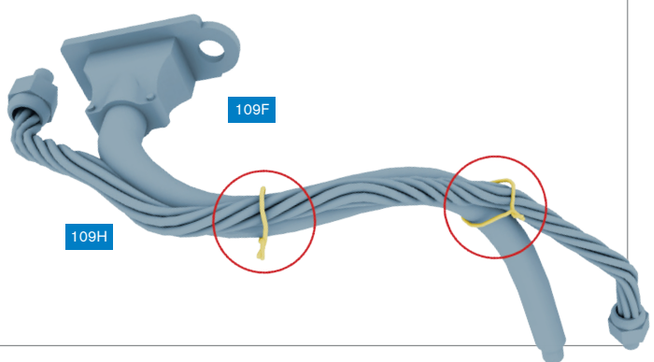
STEP 4 ›› Snip off the excess with wire cutters to leave a neat tie.



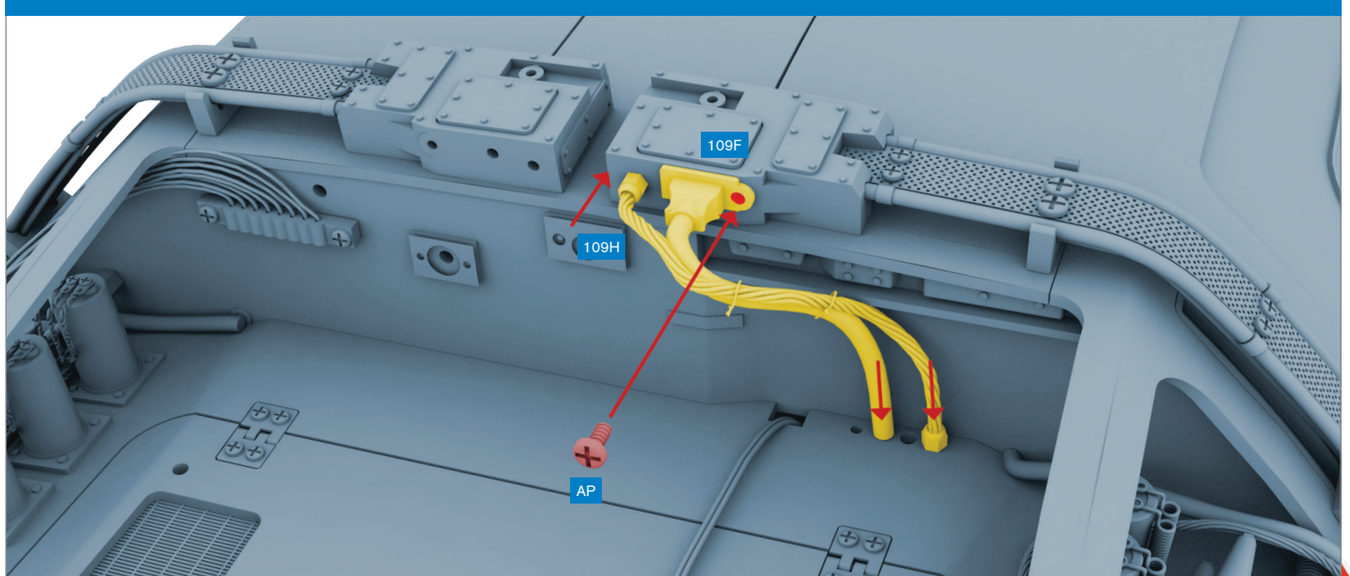
STEP 5 ›› Repeat twice more as shown to hold the cable and wires together firmly.



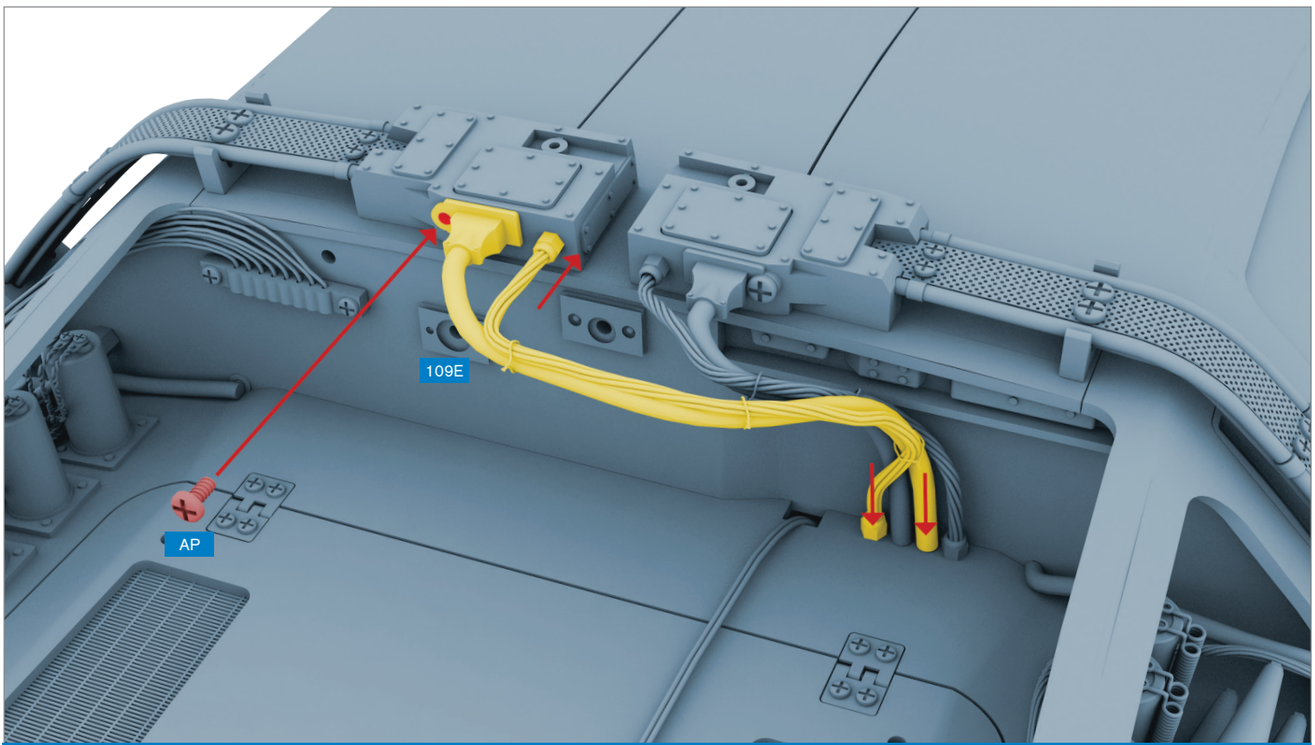
STEP 6 ›› Then do the same with the shorter cable 109F and wires 109H, tied together as shown.



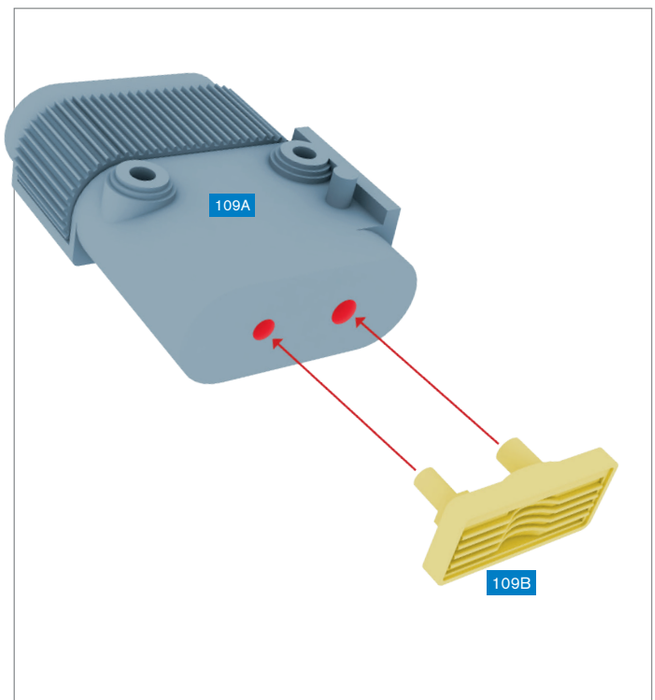
STEP 7 ›› Push the connector on 109F into the junction box along with the end of 109H and secure with an AP screw. Push the other ends of the wire and cable into the body of the DeLorean as shown.



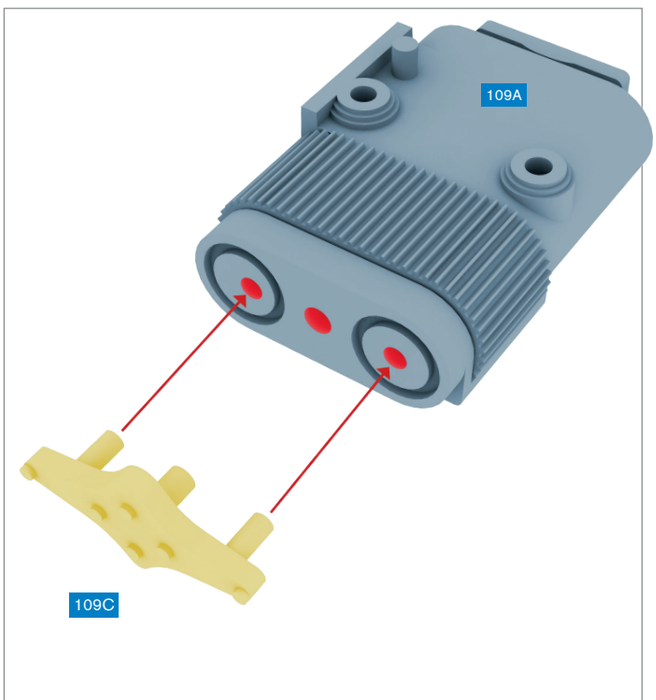
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STEP 8 ›› Push the posts on 109E into the junction box as shown and secure with an AP screw. Push the end of 109G in next to it. Push the other two ends of the cable and wires into the body of the DeLorean as shown.

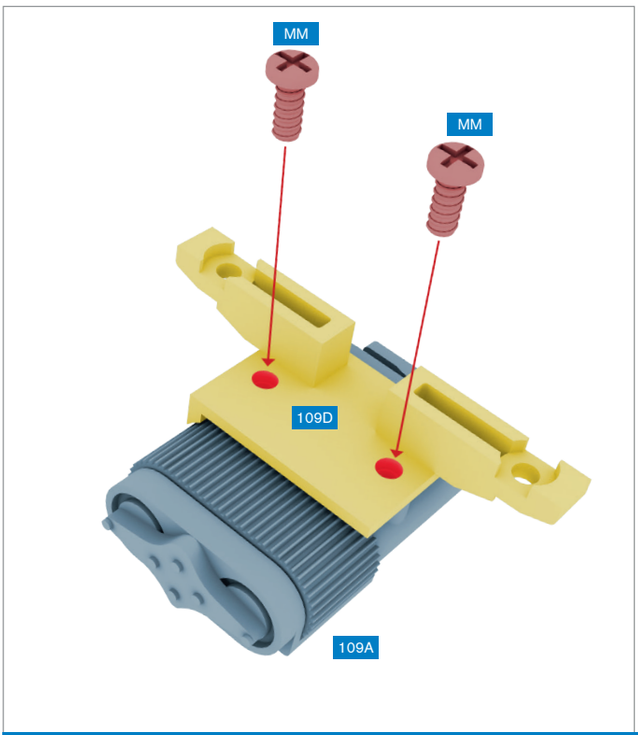


STEP 9A ›› Take part 109A and push part 109B into the two holes shown.

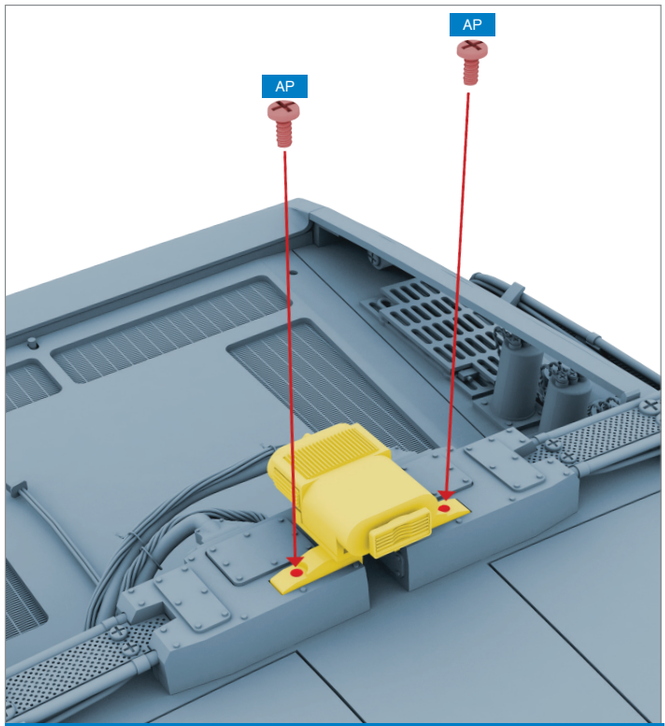


STEP 9B ›› Turn 109A around and push part 109C into the other end.

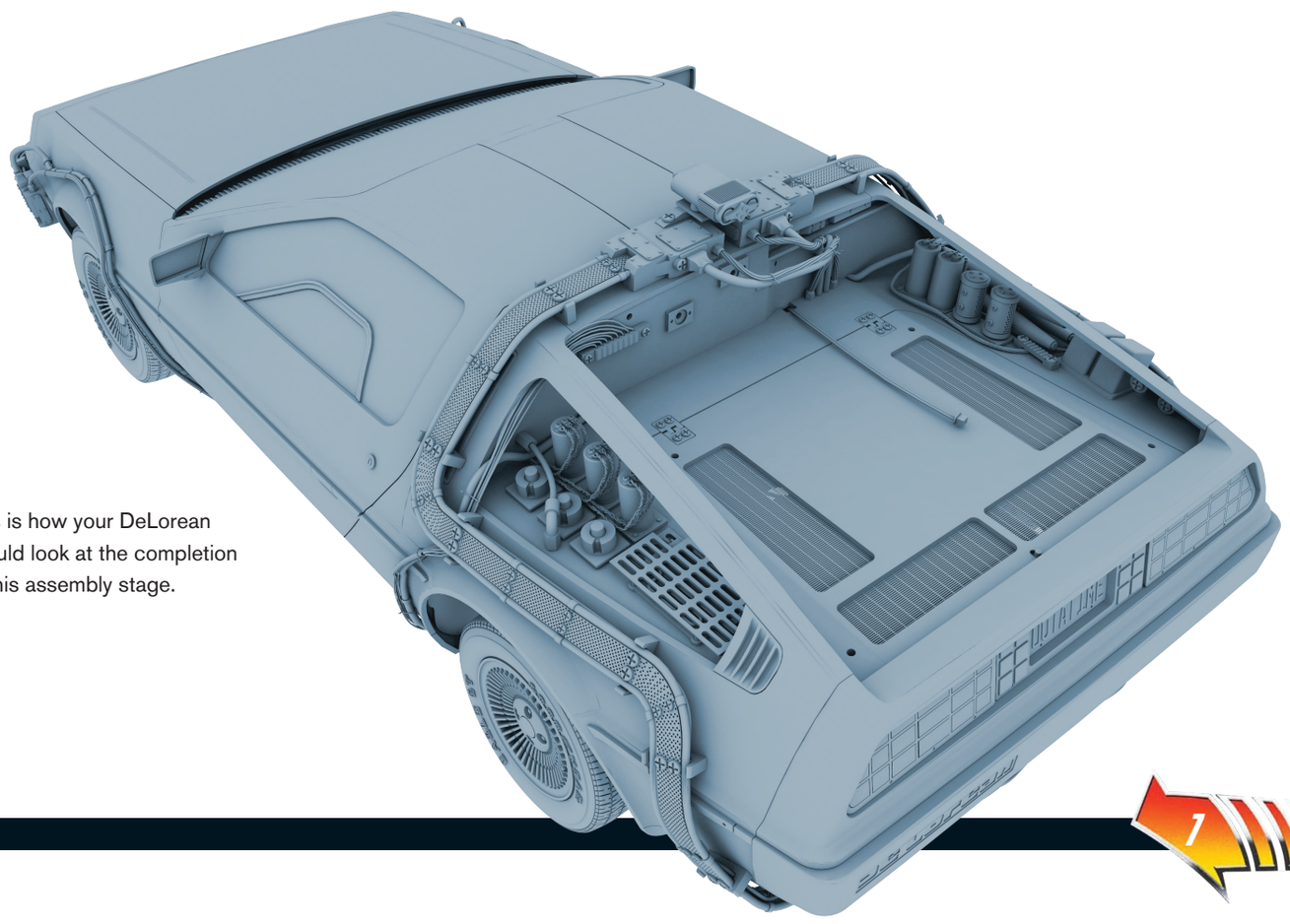
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STEP 9C ›› Push part 109D onto 109A and fix with two MM screws in the holes shown.



STEP 10 ›› Turn the completed assembly over and attach it to the top of the DeLorean with two AP screws.



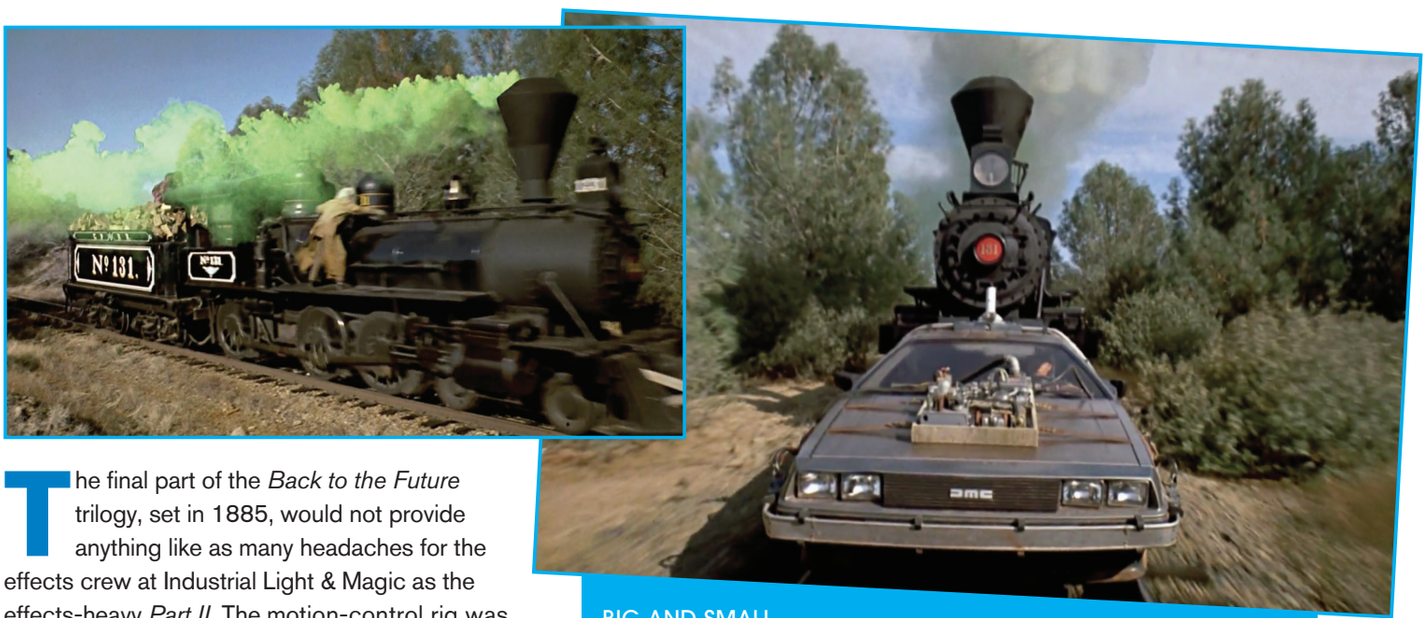
This is how your DeLorean should look at the completion of this assembly stage.

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INDUSTRIAL LIGHT & MAGIC

MOVIE MIRACLE WORKERS

Concluding our features on the famous effects house with a look at ILM's work on *Back to the Future Part III*.



BIG AND SMALL
ILM's model train and DeLorean were so detailed that director Robert Zemeckis could cut seamlessly between shots of the real train (left) and the model (above).

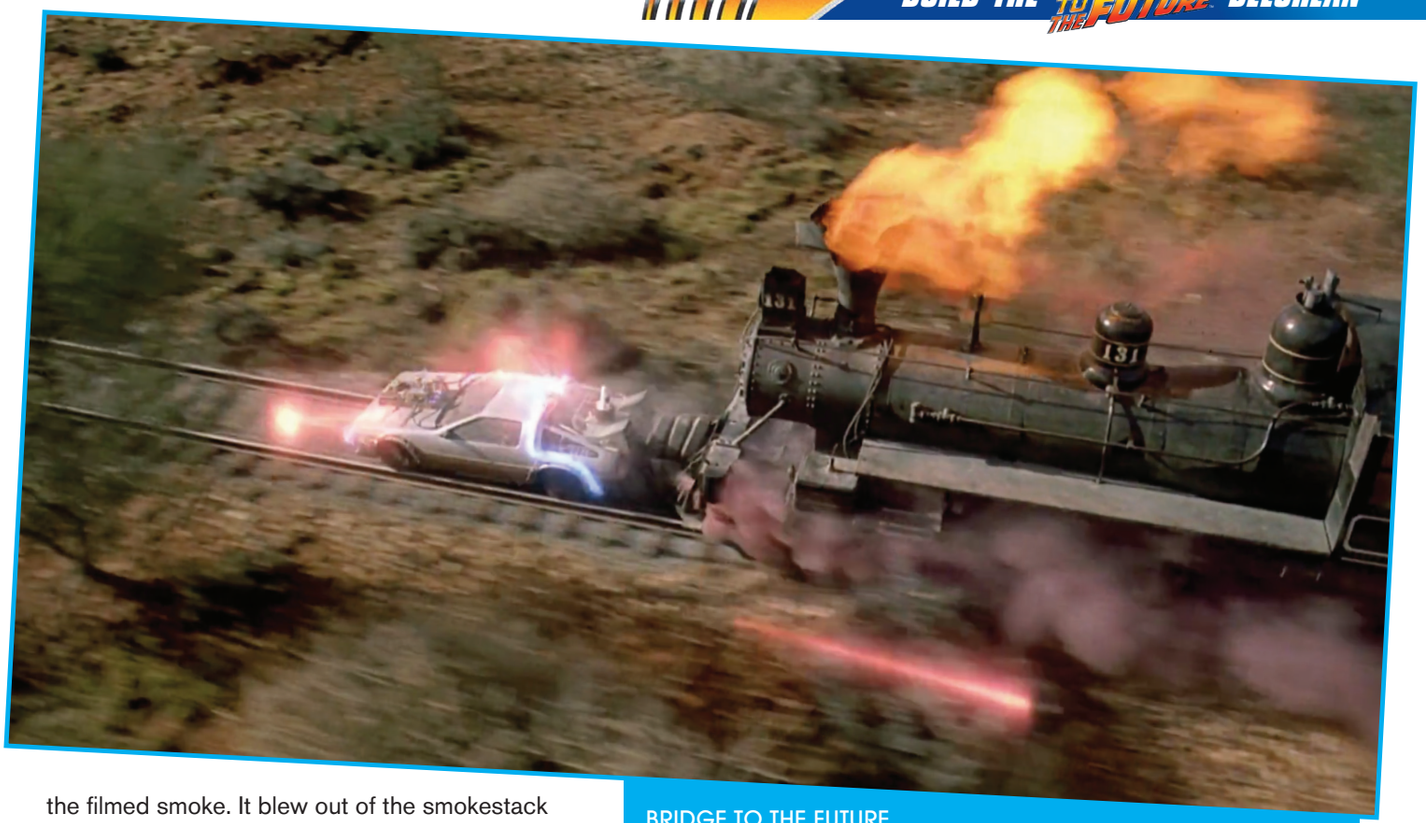
The final part of the *Back to the Future* trilogy, set in 1885, would not provide anything like as many headaches for the effects crew at Industrial Light & Magic as the effects-heavy *Part II*. The motion-control rig was used for the split-screen shots in which Michael J. Fox played both Marty McFly and his great-great grandfather Seamus. Two or three more effects sequences involved the time-slice effect, or variations on it, as seen in the first film. There was also the time-travelling 'Jules Verne' train, which we have looked at in detail in previous issues.

The climax to the Wild West sequence was the train chase, which was brought to the screen using a combination of miniatures, a full-size working steam locomotive, and some post-production effects work. Director Robert Zemeckis required some very specific action, including the DeLorean doing a wheelie, but most of all he wanted a sense of speed. For safety reasons, the shots of Michael J Fox in the DeLorean, and the wheelie, had to be filmed in reverse in case the car derailed and was crushed by the train. "Bob didn't really warm to the idea at first," said mechanical effects supervisor Michael Lantieri, "but finally he said okay and it worked really well."

SMOKE IN THE RIGHT DIRECTION

Effects work was required for the footage shot in reverse because the smoke from the train was blowing in the wrong direction. Green smoke was filmed separately and matched to the footage of the train but Zemeckis was concerned that the smoke made the train appear that it was travelling too slowly. An embellishment was added by ILM animator Wes Takahashi, who airbrushed smoke blasting out in a number of bursts over the top of

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the filmed smoke. It blew out of the smokestack then whipped backwards in the direction the train was coming from, enhancing the impression that the train was going faster than it was.

DIGITAL COLOURING

Most of the shots showing Doc and Clara hanging onto the side of the train were achieved with stunt doubles and models, but there were still a couple of reaction shots that required bluescreen work.

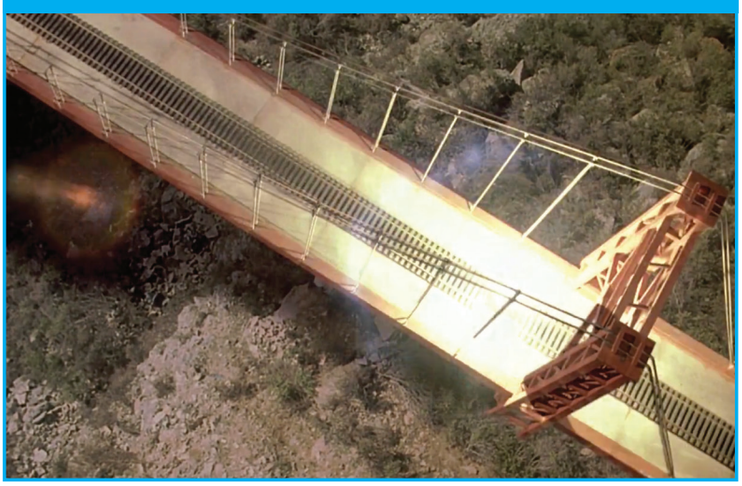
Unfortunately, Clara's purple dress proved problematic in the optical compositing process, as ILM's Sandra Ford explained. "Colours change during the bluescreen process. Usually the change is so subtle that a small colour correction can bring it back to normal but purple is one of the colours that changes a lot – it goes red. You can correct it optically but then the flesh tones are wrong." So, for the first time, digital compositing was used to grade the colour back to the correct hue. It was pioneering technology – nowadays, entire films are digitally colour-graded.

The DeLorean disappears in the nick of time as the train goes over the cliff edge in a spectacular pyrotechnic display. The following shot was a cutaway to the completed bridge, with the DeLorean reappearing in a flash. As there was no bridge at the Oxnard location, one was created as a miniature and shot on a model stage. The composite was done with computer animation and a shadow was added under the bridge to make it look as if it was going over a canyon. A 1:16 scale model of the DeLorean – in fact a radio-controlled model – was pulled across the bridge on a string. "Real high-tech stuff!" effects supervisor Ken Ralston admitted.

That mixture of animation, model work, new technology and improvisation typifies Industrial Light & Magic, who continue to set the benchmark for film special effects in the 21st century, as they have done in the three decades since the pioneering *Back to the Future* movies. ■

BRIDGE TO THE FUTURE

Pushed by the locomotive, the DeLorean reaches 88 miles per hour and disappears as the train heads for the cliff edge. Its reappearance was filmed on a model bridge (below).



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Left: The Toyota 4x4 is waiting in Marty's garage when he returns from his adventures. Above, the car in the Texaco garage in Hill Valley, and in the street race with Needles.

MARTY'S 4X4

"THAT IS HOT!"

Before he rides in the DeLorean, Marty has his heart set on a Toyota 4x4...

After being cruelly rejected at the auditions for Hill Valley High's 'Battle of the Bands', Marty is comforted by his girlfriend Jennifer as they hang out in the town square. And then, in the Texaco garage, Marty spots a gleaming black Toyota truck.

"Check out that four-by-four!" he enthuses. "That is hot! Someday, Jennifer, *someday*. Wouldn't it be great to take that truck up to the lake? Throw a couple of sleeping bags in the back, lie out under the stars..."

When Marty returns from his adventures in 1955, many things have changed, and there in the garage, waiting for him, is the Toyota 4x4.

But it's a while before Marty gets to drive it – first there are time-trips to the future, an alternative present, 1955 and 1885. Only once he's back does he finally get behind the wheel, but then he's challenged to a street race by his crazy rival Needles, who taunts him by calling him a chicken. On an empty stretch of highway, Marty revs up next to Needles and his gang in their 1978 Ford F-150.

Then, at the last minute, Marty turns the Toyota around and watches Needles shoot away, almost colliding with a 1955 Rolls Royce Silver Cloud. If he'd raced, Marty would have hit the Rolls Royce! Instead, he and Jennifer are safe, and free to enjoy the future together. ■

QUICK FACTS!

DREAM CAR

- In *Back to the Future*, the registration number of Marty's 4x4 is 2EZP916. The same truck was not available for *Parts II* and *III* so a replacement was found, registration number 2BAK860.
- In 2013, the 4x4 used in *Parts II* and *III* was discovered after being advertised for sale online and was eventually bought by *Back to the Future* fans and auto enthusiasts Patrick Shea and his father Bill. The truck was restored to its former glory by Greg Ward of Rutland, MA, and the engine was rebuilt by specialists 22-RE Performance in California. The 4x4 is now proudly displayed in the Shea's collection, next to a DeLorean used in *Part III*.

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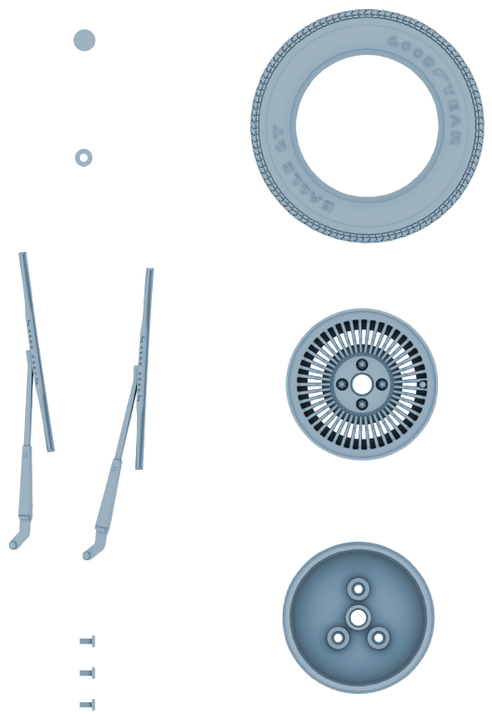
NEXT ISSUE...

SPARE WHEEL

Add more details to your DeLorean.

With next issue, you will receive the spare wheel and windscreen wipers. Fit these to the car using the step-by-step guide.

YOUR CAR PARTS...





BACK TO THE FUTURE: THE RIDE

How the number one time-travelling movie was made into a thrilling attraction at Universal Studios.

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