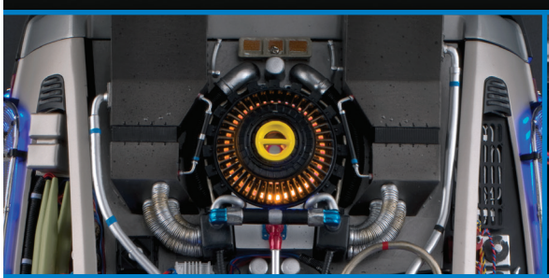
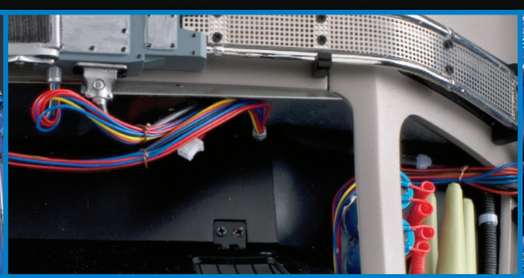
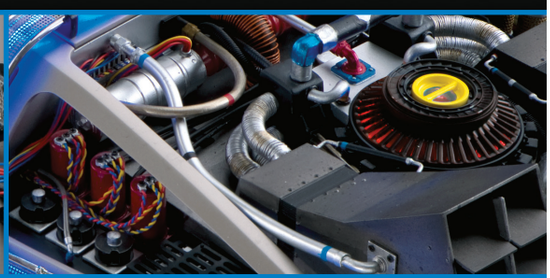
# BUILD THE BACK TO THE FUTURE™ DELOREAN

ISSUE 111







FANHOME

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

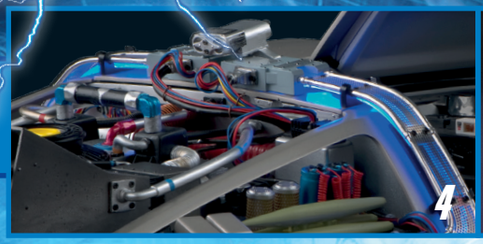
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BUILD THE

# BACK TO THE FUTURE™ DELOREAN

ISSUE 111





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4 **DRIVE TIME**
Begin assembling your DeLorean's reactor platform by following the illustrated guide.

8 **BACK TO THE FUTURE: THE RIDE**
Visual effects wizard Doug Trumbull works on a thrilling new journey for the DeLorean!

10 **A TIME TRAVELLER'S GUIDE**
A shoot-out in old Hlll Valley becomes a contest of brains versus bullets.






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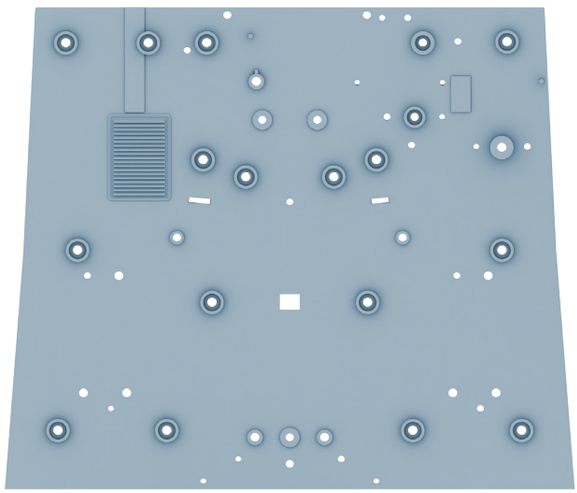
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# YOUR CAR PARTS

With this issue you receive the reactor platform for your DeLorean, plus three reactor components, a pipe and fixing screws.

**111A** REACTOR PLATFORM



REACTOR COMPONENTS

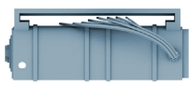
**111B** (silver)



**111C** (red)



**111E** (silver with wires)



**111D** PIPE



**GP** SCREW X4



**AP** SCREW



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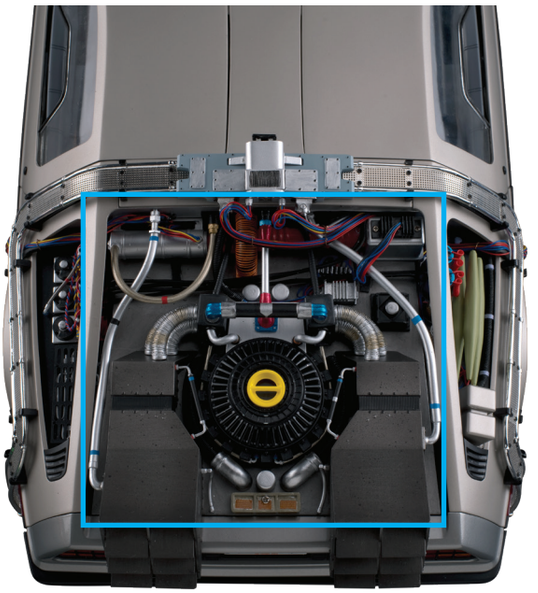


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# DRIVE TIME

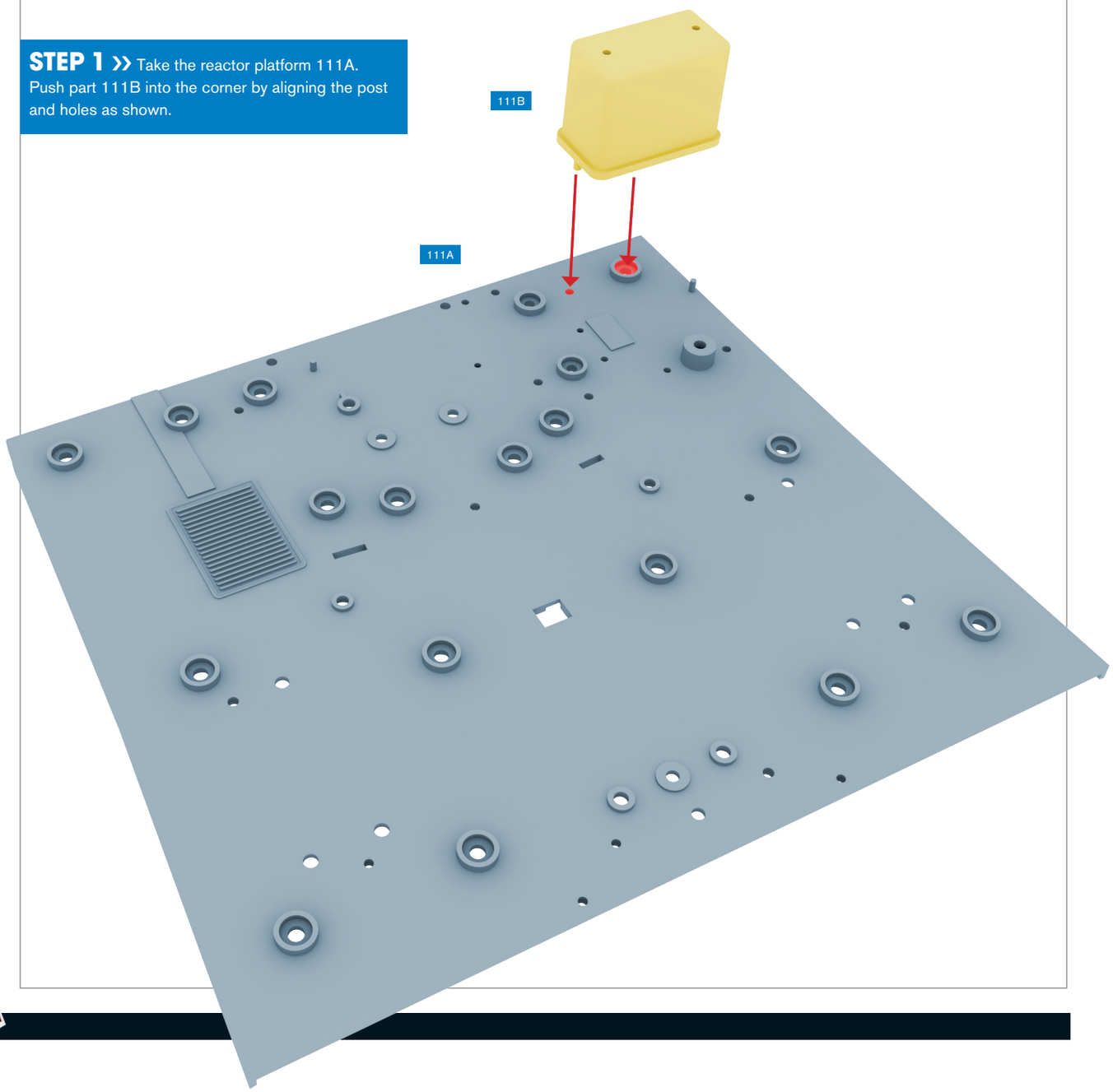
Begin working on the reactor platform for the rear of your DeLorean.

Using the step-by-step guide, fit three reactor components in place on the reactor platform.



## REACTOR PLATFORM

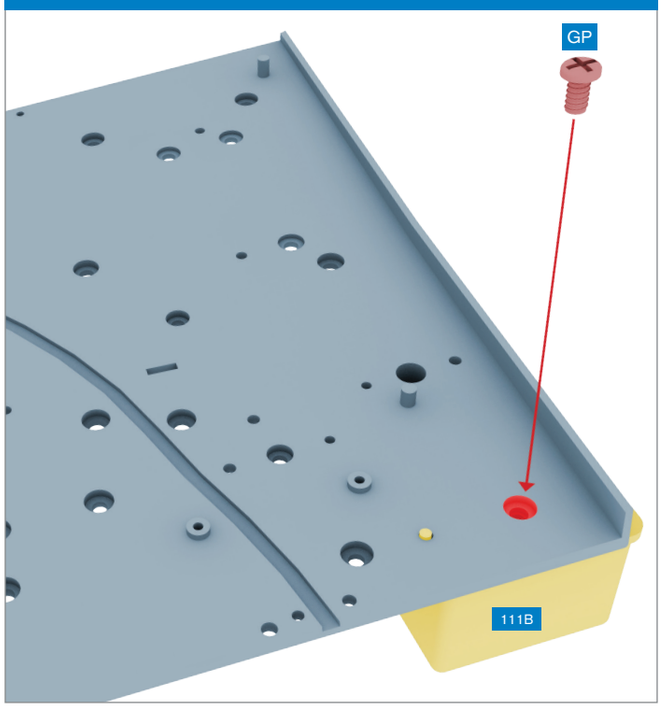
**STEP 1** » Take the reactor platform 111A. Push part 111B into the corner by aligning the post and holes as shown.



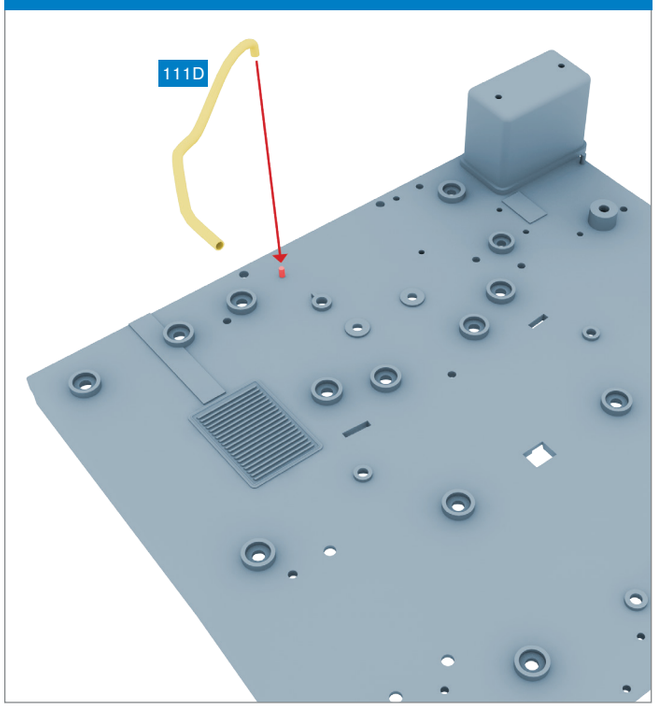



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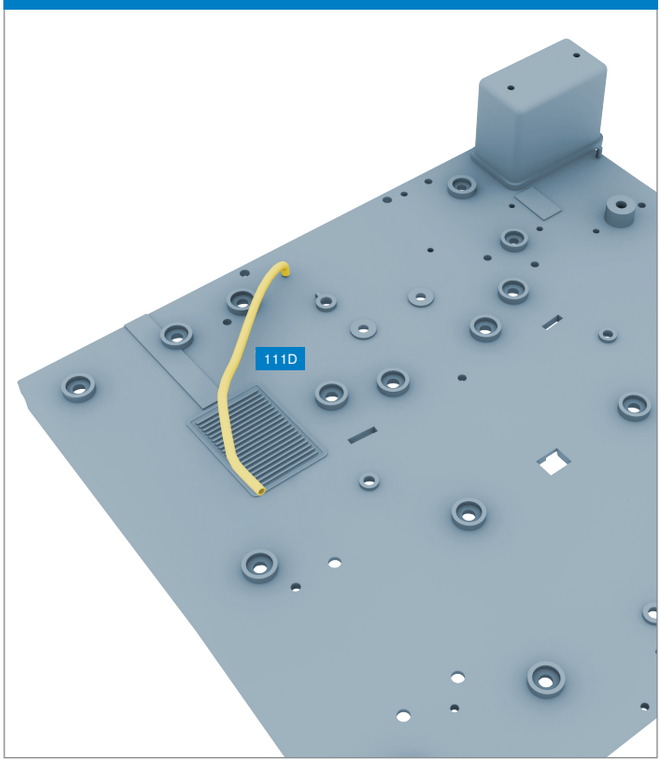
**STEP 2 ›› From the other side, fix part 111B in place with a GP screw, as shown.**



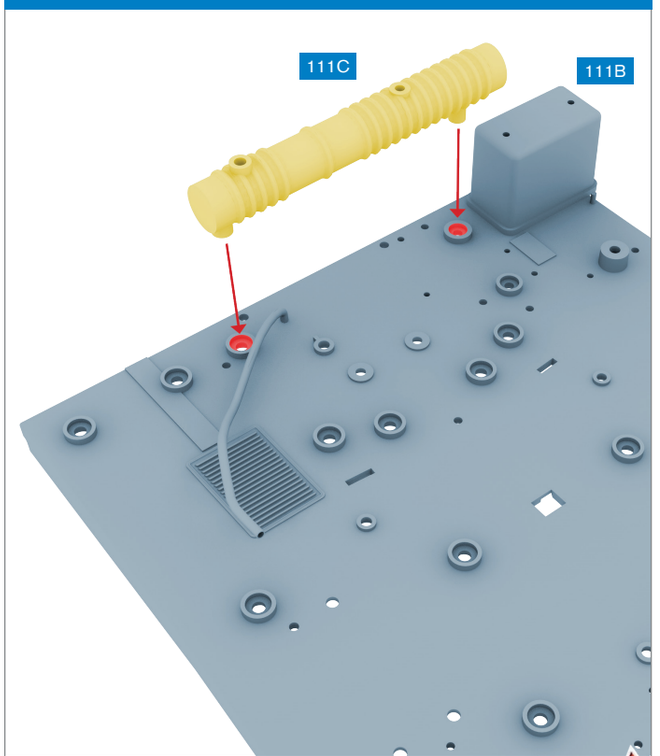

**STEP 3 ›› Turn the piece over again and push the pipe 111D in place over the post shown.**




**STEP 4 ›› Swivel the pipe 111D around and arrange as shown.**

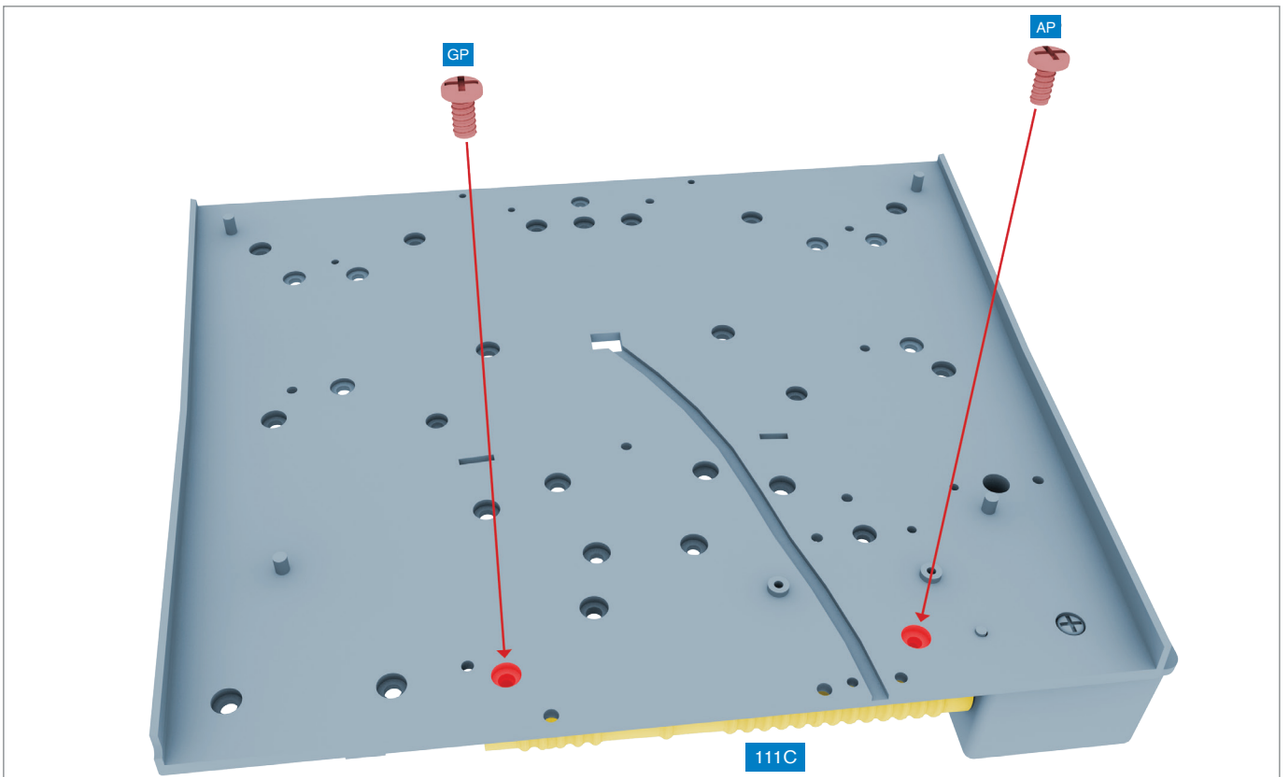



**STEP 5 ›› Push part 111C in place next to 111B.**

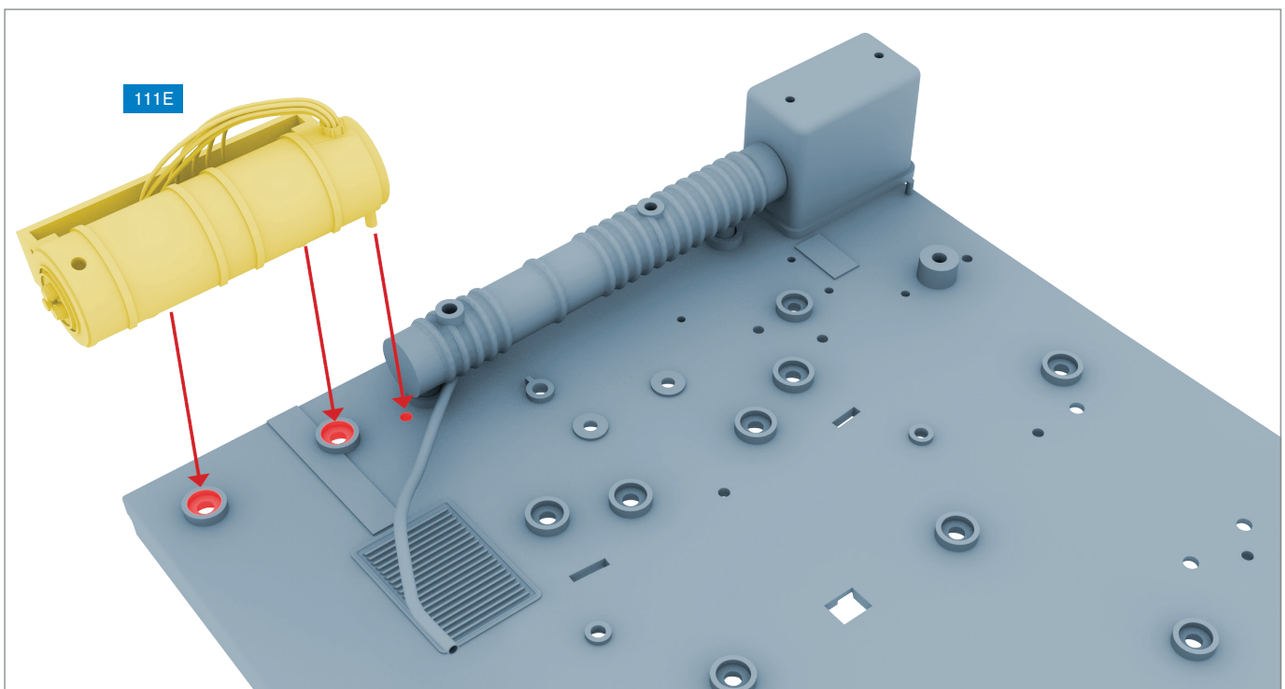





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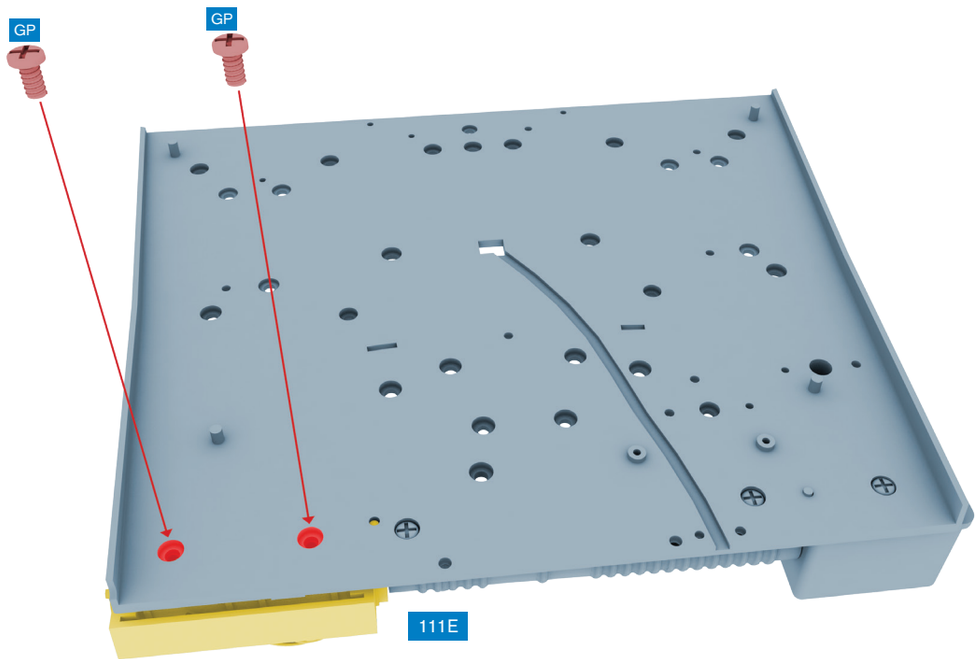

**STEP 6 ››** From the other side, fix part 111C in place with a GP screw and an AP screw as shown.



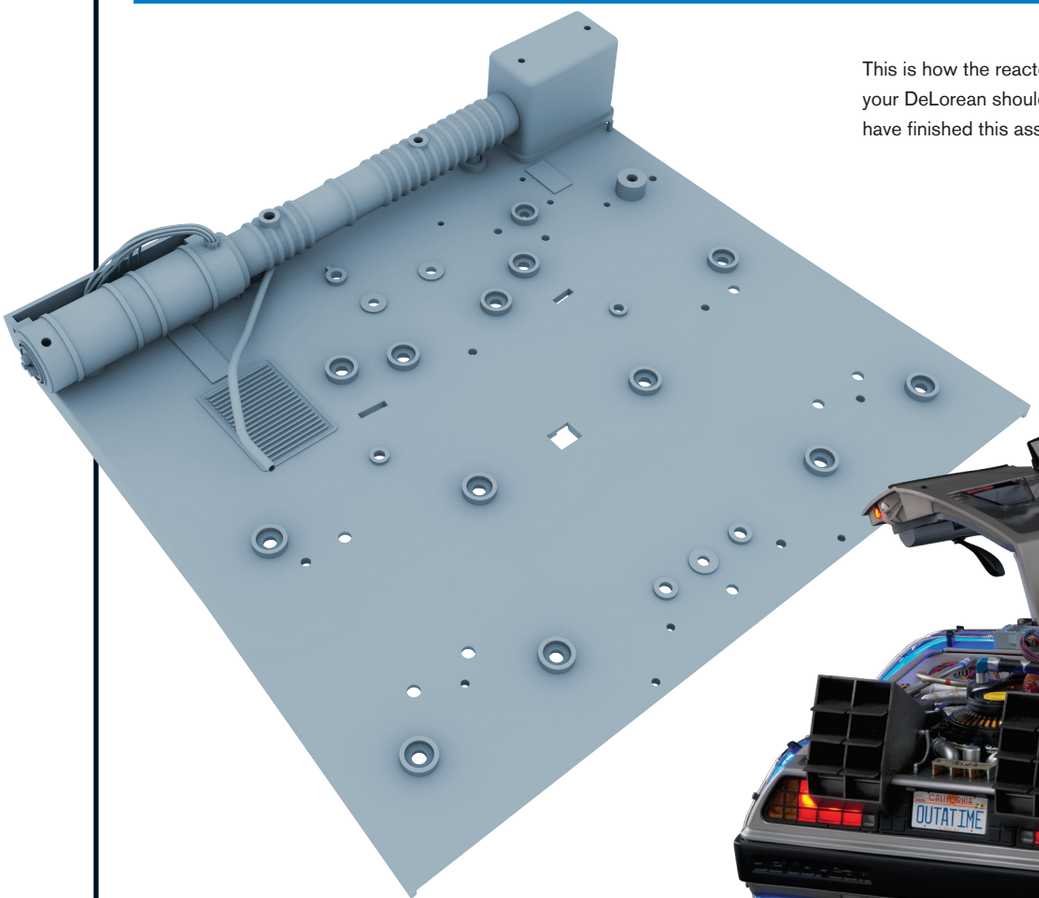

**STEP 7 ››** Push part 111E in place by aligning the holes and post.



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**STEP 8 ››** From the other side, use the other two GP screws to hold part 111E in place.



This is how the reactor platform for your DeLorean should look when you have finished this assembly stage.






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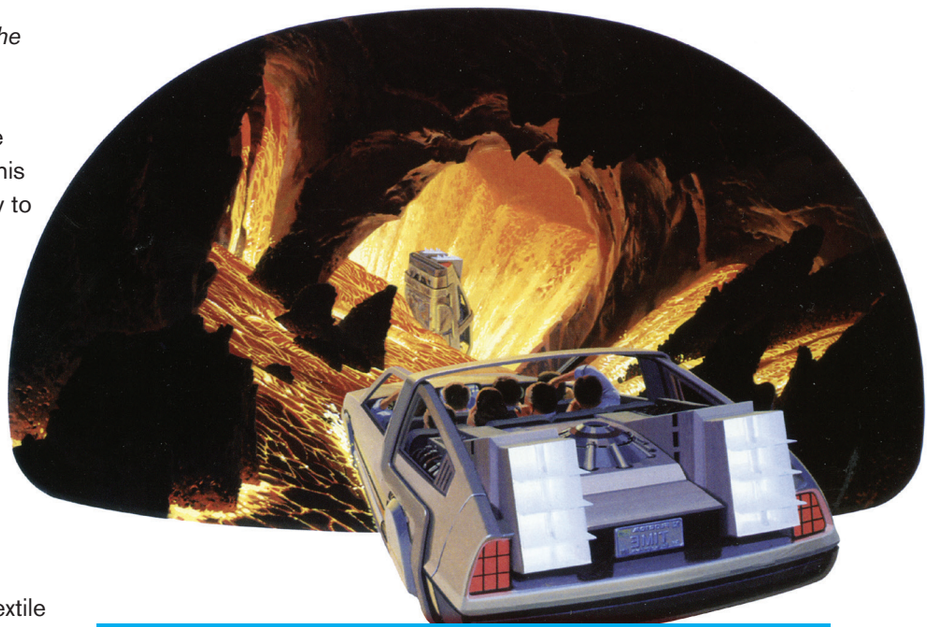
# A CHASE THROUGH TIME

EXPERIMENTS WITH IMAX

*Back to the Future: The Ride* begins to take shape under the eye of effects wizard Doug Trumbull.

Work on Universal Studios' *Back to the Future*-themed ride really moved forward when effects wizard Doug Trumbull became involved. He quickly saw the problems inherent in the project and brought his years of experience to bear on the task of how to present an IMAX experience to a moving car full of time-travelling 'passengers'.

Trumbull proposed that the ride should be a chase through time, filmed with IMAX cameras on a series of model stages, following a flying DeLorean as it zoomed through various *Back to the Future* scenes, including Hill Valley in 2015. His pitch included concept art and storyboards, which, along with his enthusiasm for the concept, won him the contract. His studios, Berkshire RideFilm were located in a former textile mill in Housatonic, Massachusetts.



**VOYAGE IN THE VOLCANO**

*Another thrilling sequence in* Back to the Future: The Ride, *created by Doug Trumbull and his team, featured the stolen DeLorean making its way through the molten lava of a prehistoric volcano, shown here in a pre-production painting.*

## EVALUATION

To ensure that the audience experienced no sensation of motion sickness, Trumbull intended to test each shot, so that the movement of the camera corresponded with the movement of the vehicle. He would need a bespoke set up for screen tests, with a motion base, an eight-passenger DeLorean, an IMAX dome screen, an IMAX projector and a film lab. He was given a budget of $15 million (the budget for the original *Back to the Future* was only $19 million) and all the equipment he required. One problem that Trumbull soon found was that the IMAX cameras were too big to shoot in the model sets he was building, so he had a small, lightweight IMAX animation camera designed for the project.

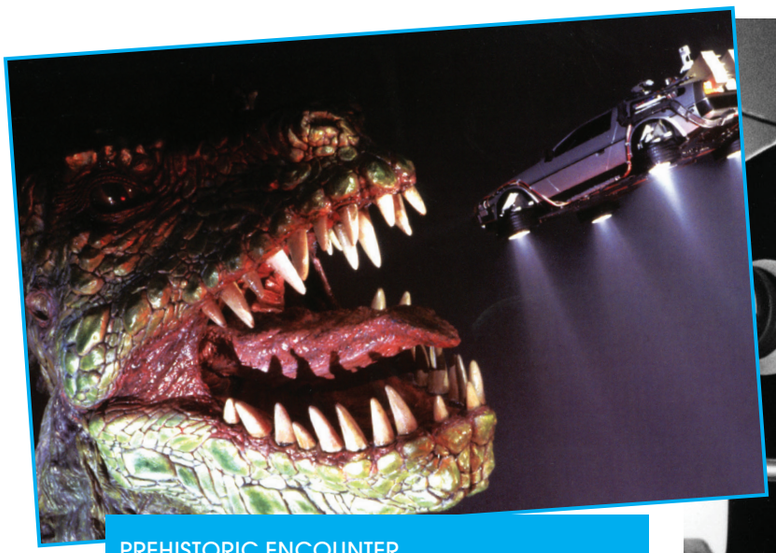
## LIGHTS, CAMERA!

Another challenge was the fish-eye lens that they were using to enable projection onto a domed screen, which meant that overhead lighting rigs would be seen in shot. This problem was solved by setting most of the action at night and having the sets lit from within. Trumbull said that lighting was "the most fundamental problem of the whole show." So, for Hill Valley 2015, model streetlights, shop windows and other features were all individually illuminated.

Trumbull could program a shot so that the camera would perform one sequence, and the



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**PREHISTORIC ENCOUNTER**
*The DeLorean narrowly avoids the jaws of a Tyrannosaurus Rex when it travels into the past, a scene created by director Doug Trumbull.*

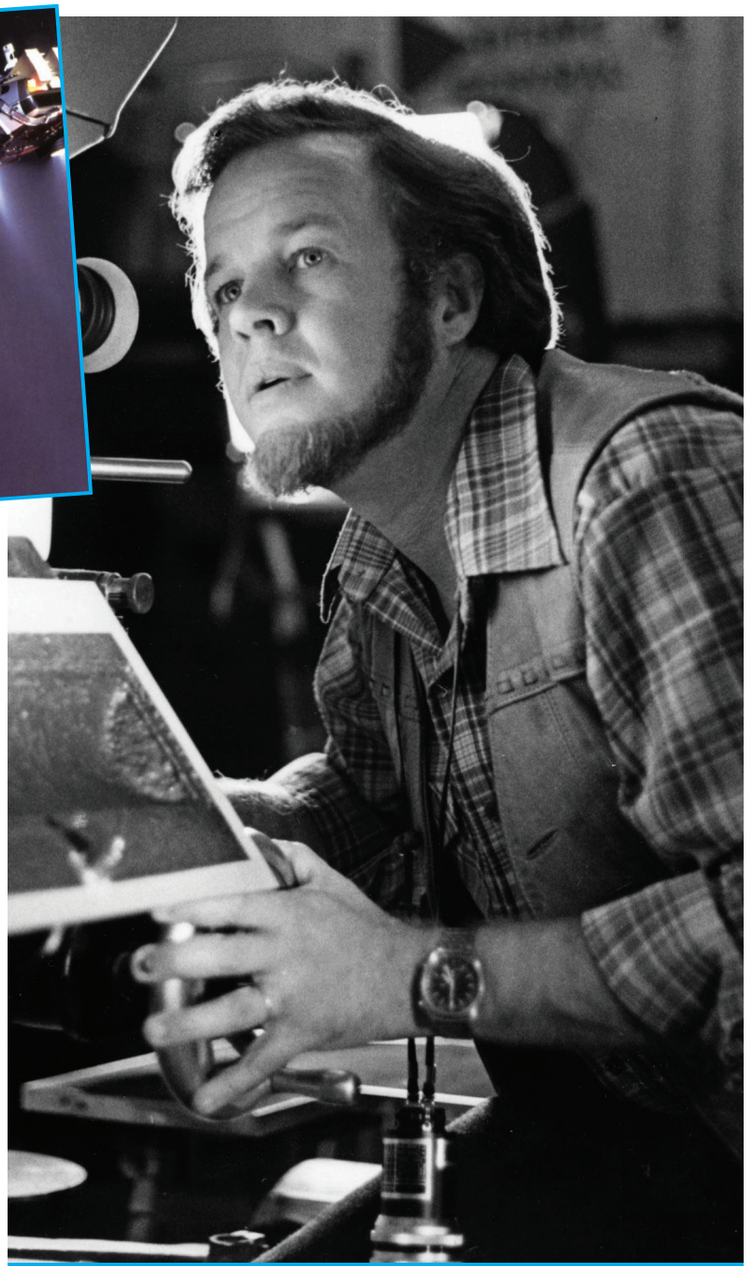
corresponding moves of the motion base could also be programmed in. He said, "We could shoot it, process it and have it on the screen with the motion base within two hours. Then we could modify it, and do another one in two hours. Sometimes it was great, sometimes it was awful, sometimes it made you sick. We'd go through that many times until we found the perfect combination of physical motion and camera motion. We had to learn very quickly."

An encounter with a Tyrannosaurus Rex had been incorporated in the ride from its earliest concept. A nine-foot animatronic model was created by mechanical supervisors Kenneth Walker and Tom Culnan over a period of several months.

## STORYTELLING

While Trumbull laboured on the effects sequences, Universal's production manager Steven Marble was looking at the script, and the reason *why* the DeLorean was zipping through time. A pre-show sequence would set the scene – but what was the story?

There were a number of different ideas. At one point Doc Brown's dog Einstein was piloting the other DeLorean – for a while there was an idea that there were two Doc Browns, not an unlikely occurrence in the *Back to the Future* universe. The storytelling job fell to Peyton Reed, who had worked on promotional films and behind-the-scenes featurettes for *Back to the Future* with George Zaloom and Les Mayfield of the



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**DOUG TRUMBULL**
*The man behind the effects of Kubrick's* 2001 : A Space Odyssey *brought a wealth of experience to Universal's* Back to the Future *IMAX project.*

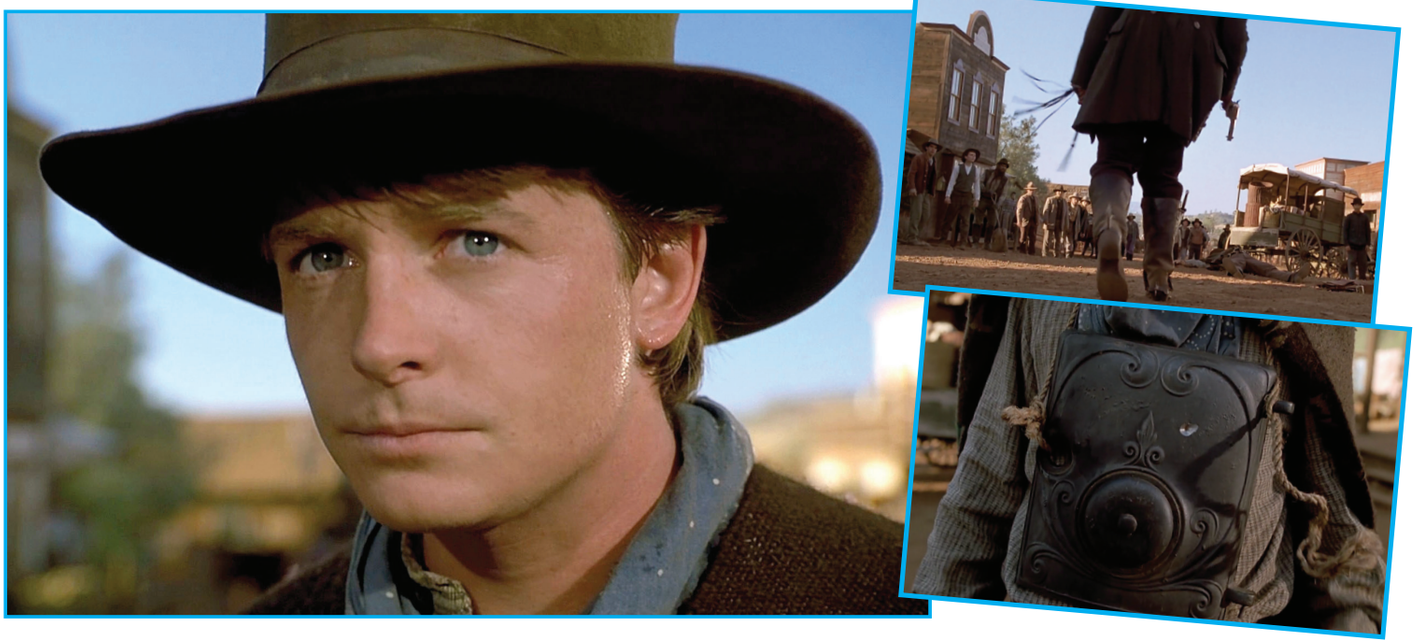
filmmaking company ZM Productions. Reed and his writing partner Mark Cowen calculated that the story had to keep the queuing audience occupied for as much as 45 minutes.

They were presented with an idea of Doc Brown having an evil twin, but Reed and Cowen argued that there was already a perfectly good villain in the trilogy, without the need to invent another one. The stolen DeLorean in the time chase would be driven by none other than Biff Tannen... ■

TO BE CONTINUED...→



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*Left: Marty (Michael J. Fox) perfects his Clint Eastwood stare. Above: Marty falls to the ground as Tannen shoots, but Marty has come prepared...*

# SHOOT-OUT IN HILL VALLEY

## BRAINS BEAT BULLETS

*Marty faces Buford Tannen in Main Street, but he has a few tricks up his sleeve...*

In Hill Valley main street, Buford Tannen is out to kill Doc Brown over a matter of 80 dollars. It's early in the morning, but the townsfolk have gathered expectantly. Tannen has his gun levelled at Doc, but then Marty steps out. Tannen doesn't care who he kills, and calls on Marty to draw. Instead, Marty lets his gun-belt fall to the ground. "I thought we could settle this like men," he shouts.

"You thought wrong, dude!"

Without a qualm, Tannen draws his own pistol and fires, the force of the shot throwing Marty to the ground. Doc looks on in horror and disbelief.

Tannen plays to the crowd, loping up to Marty, who is flat on his back.

As Tannen points his gun at Marty to finish him off, Marty's foot flies up and knocks the pistol out of Tannen's hand. Marty stands up, miraculously unharmed.

The astounded Tannen reacts in the only way he knows, with violence. He throws a punch at Marty's chest, hits something hard and screams in pain. Lifting his poncho, Marty reveals reveal the door of a cast-iron stove that he is wearing as a bullet-proof vest. Marty unties the stove door and swings it at Tannen's head.

The villain falls, but stands up again. They fight, until a well-aimed punch from Marty sends Buford crashing headfirst into the manure cart, where he is picked up by the deputy sheriff. Justice is served! ■

**"Prepare to meet your maker, blacksmith!"**

BUFORD TANNEN

## QUICK FACTS!

### EASTWOOD STYLE

● Marty's showdown with Buford Tannen recalls a famous scene in Sergio Leone's 1964 film *A Fistful of Dollars* which starred Clint Eastwood. It's all the more appropriate because Marty uses the name Clint Eastwood as an alias in Hill Valley in 1885. In Leone's film, Eastwood, as the Man with No Name, faces Ramón Rojo. With a steel chest-plate hidden beneath his poncho, he taunts Ramón to 'aim for the heart' as the shots from Ramón's rifle fail to silence him.



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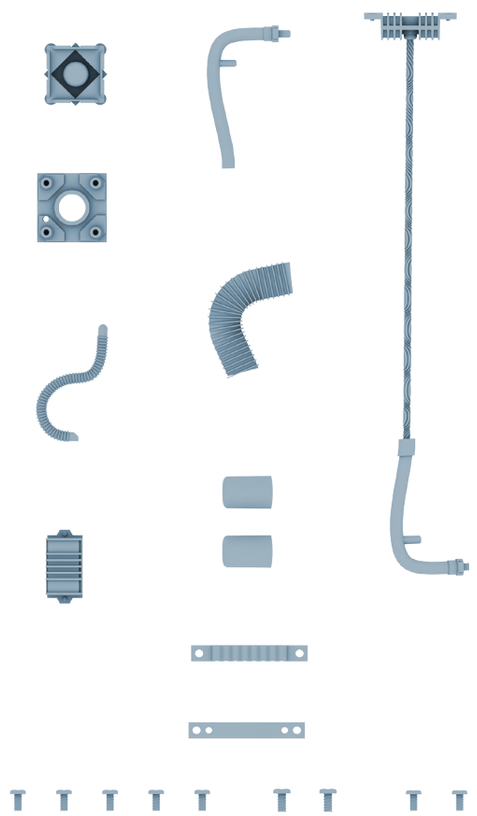
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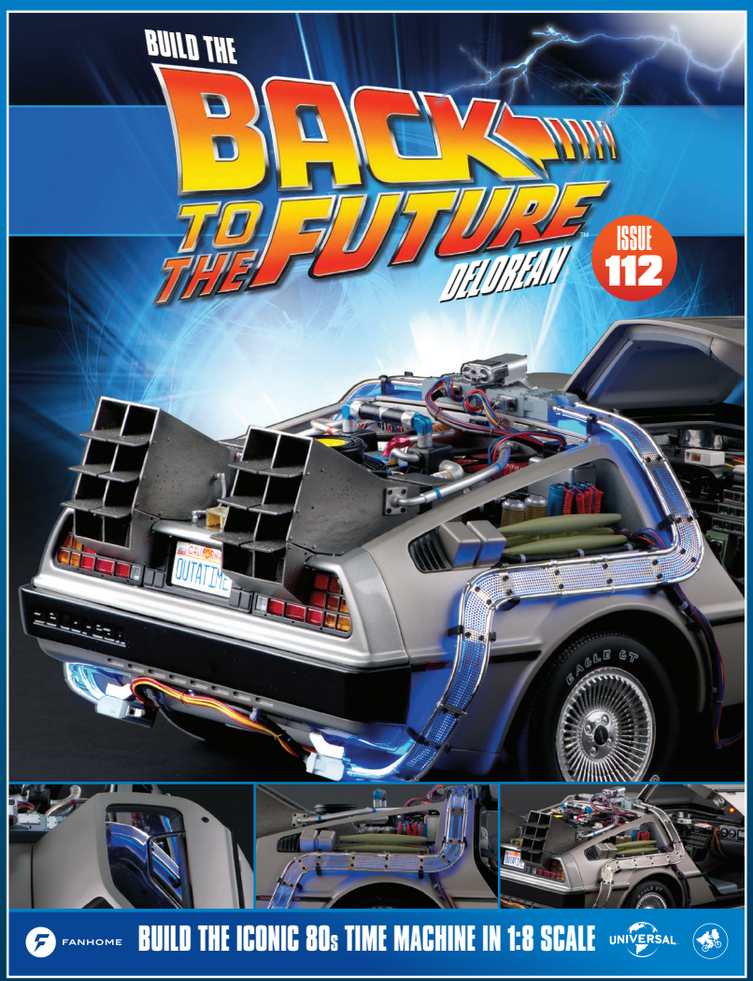
## REACTOR COMPONENTS

Add more details to your DeLorean!

With next issue, you will receive more parts that can be fitted to the reactor platform by following the step-by-step guide.

## YOUR CAR PARTS...






## BACK TO THE FUTURE: THE RIDE

As the special effects work continues on Universal's breathtaking *Back to the Future* attraction, attention turns to the story.

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# BACK TO THE FUTURE™

## DELOREAN

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