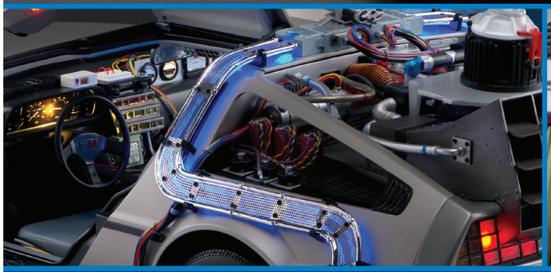
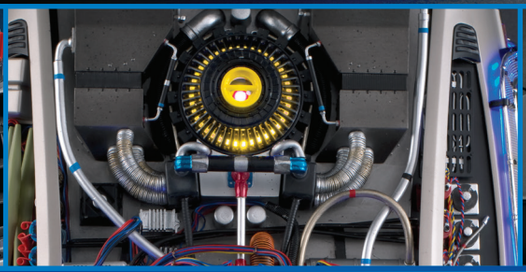
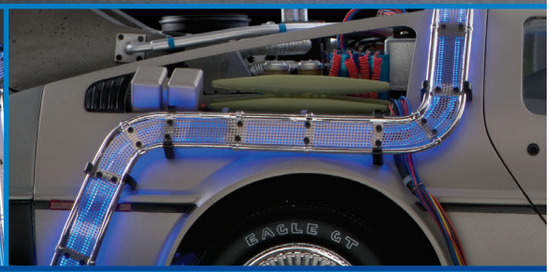
BUILD THE BACK TO THE FUTURE™ DELOREAN

ISSUE 119









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

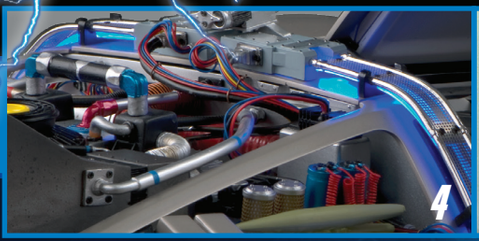
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BUILD THE

BACK TO THE FUTURE DELOREAN

ISSUE 119





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CONTENTS

4 **DRIVE TIME**
Make and fit two exhaust pipes for the reactor of your DeLorean by following the illustrated guide.

8 **CHRISTOPHER LLOYD**
A look at the work of the celebrated comic actor after the *Back to the Future* trilogy.

10 **A TIME TRAVELLER'S GUIDE**
Doc Brown declares that a bolt of lightning is the only way to generate 1.21 gigawatts... we investigate the science of lightning!



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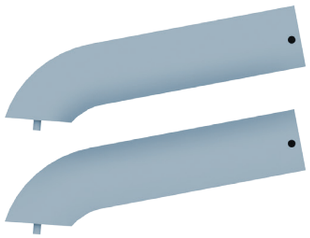




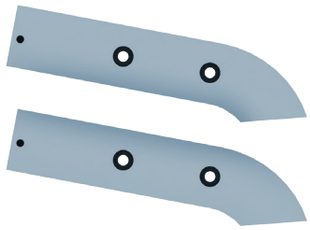
YOUR CAR PARTS

With this issue you receive parts for two exhaust pipes which you will fit into the reactor of your DeLorean.

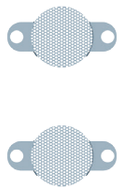
119A REACTOR EXHAUST PIPE (HALF) X2



119B REACTOR EXHAUST PIPE (HALF) X2



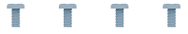
119C REACTOR EXHAUST PIPE GRILLES X2



119D BRACKETS X2



AP SCREW X 4



GP SCREW X 6



IP SCREW X 4

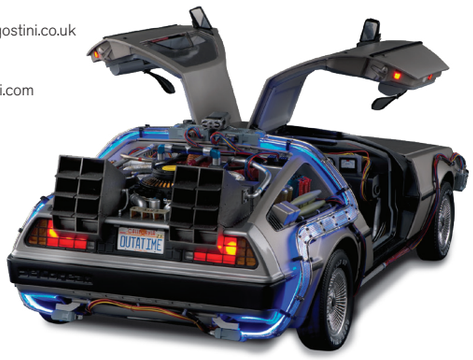


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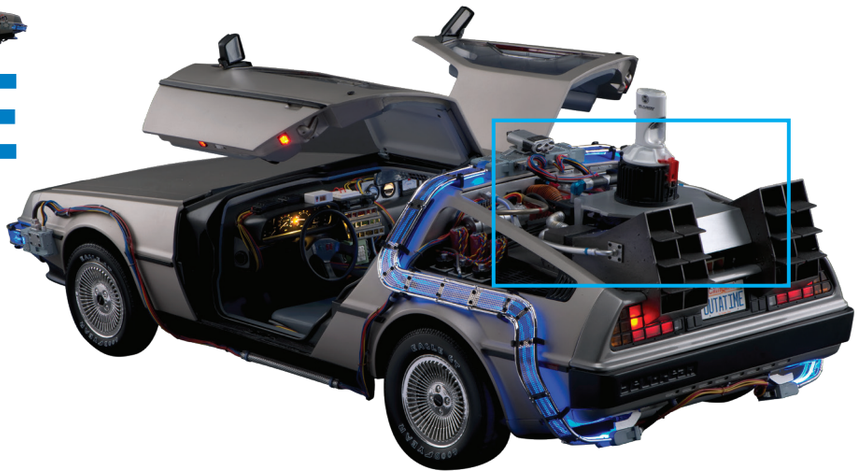


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DRIVE TIME

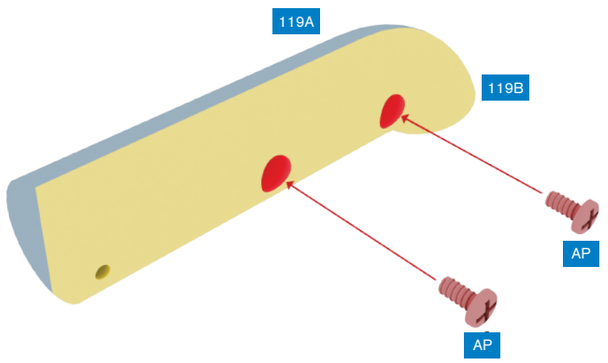
Make and fit two exhaust pipes for the reactor.

With this issue, follow the illustrated guide to add more details to the reactor platform of your DeLorean.

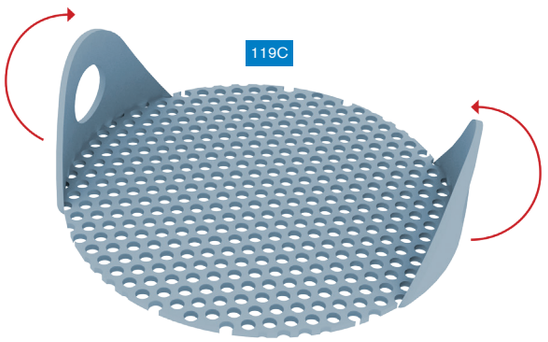


MAKING AND FITTING THE EXHAUST PIPES

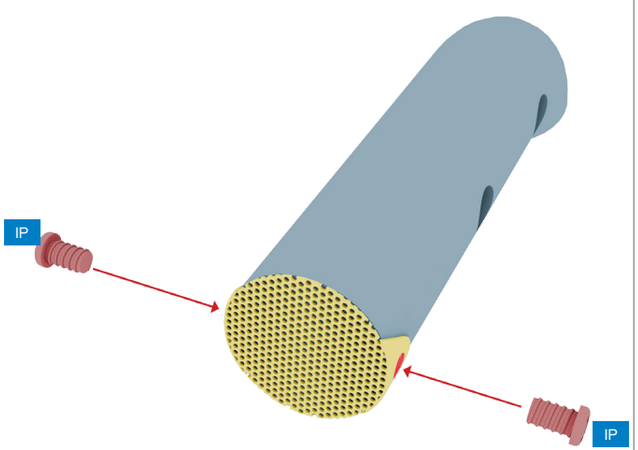
STEP 1 ›› Push together one each of the parts 119A and 119B and fix them with two AP screws.



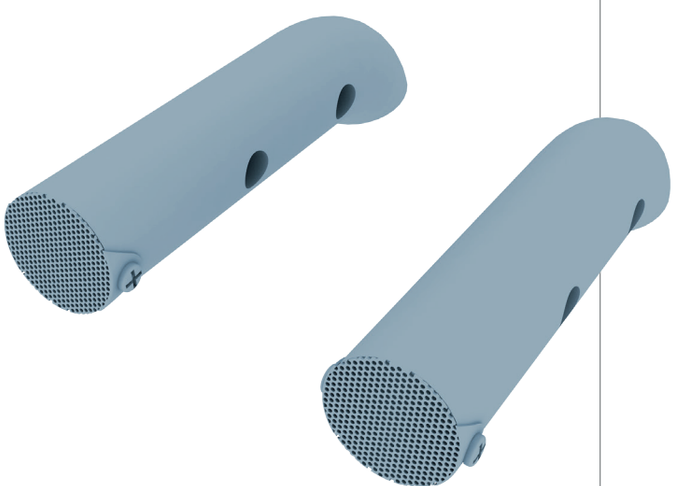
STEP 2 ›› Take one of the grilles (part 119C) and very carefully bend the edge up as shown.



STEP 3 ›› Push the grille onto the assembled exhaust pipe, aligning the holes. Fix the grille in place with two IP screws.

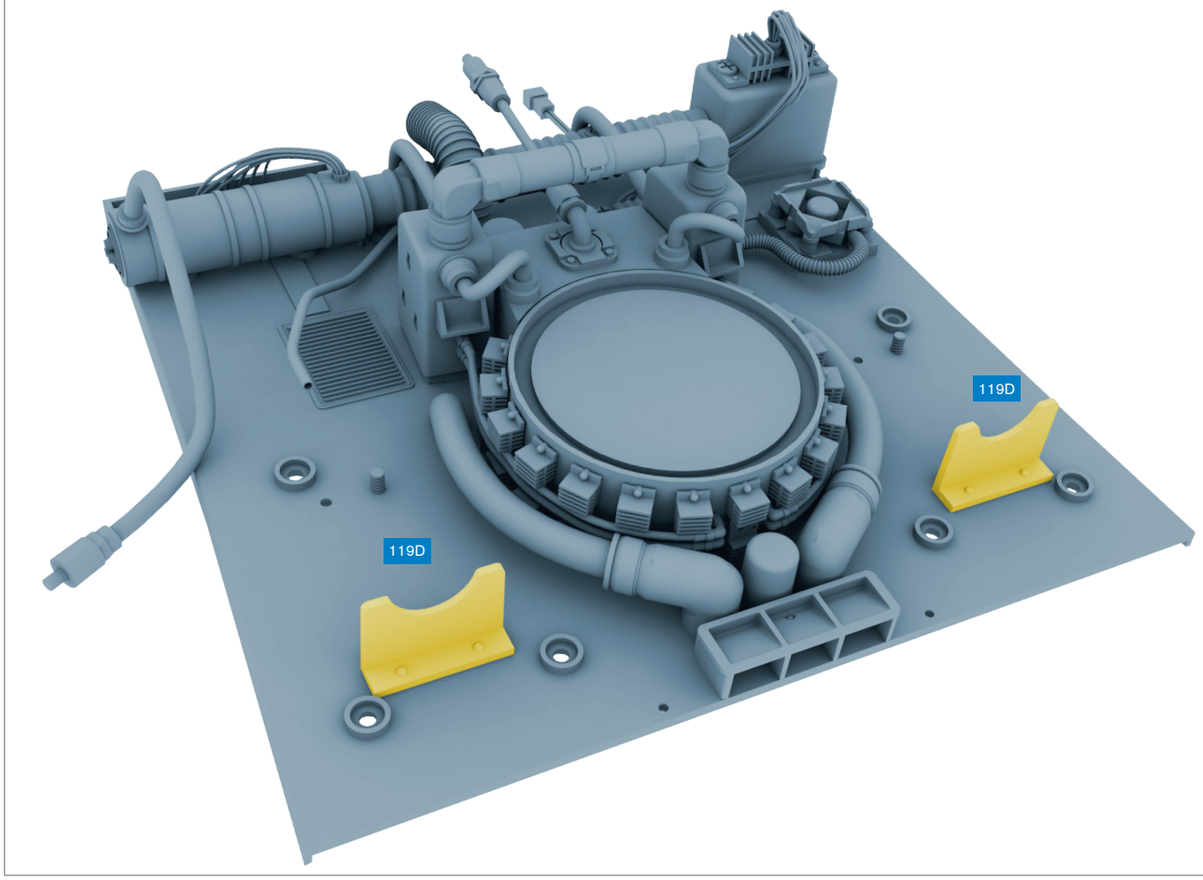


STEP 4 ›› Repeat steps 1-3 with the other parts 119A, 119B and 119C to make a second exhaust pipe.

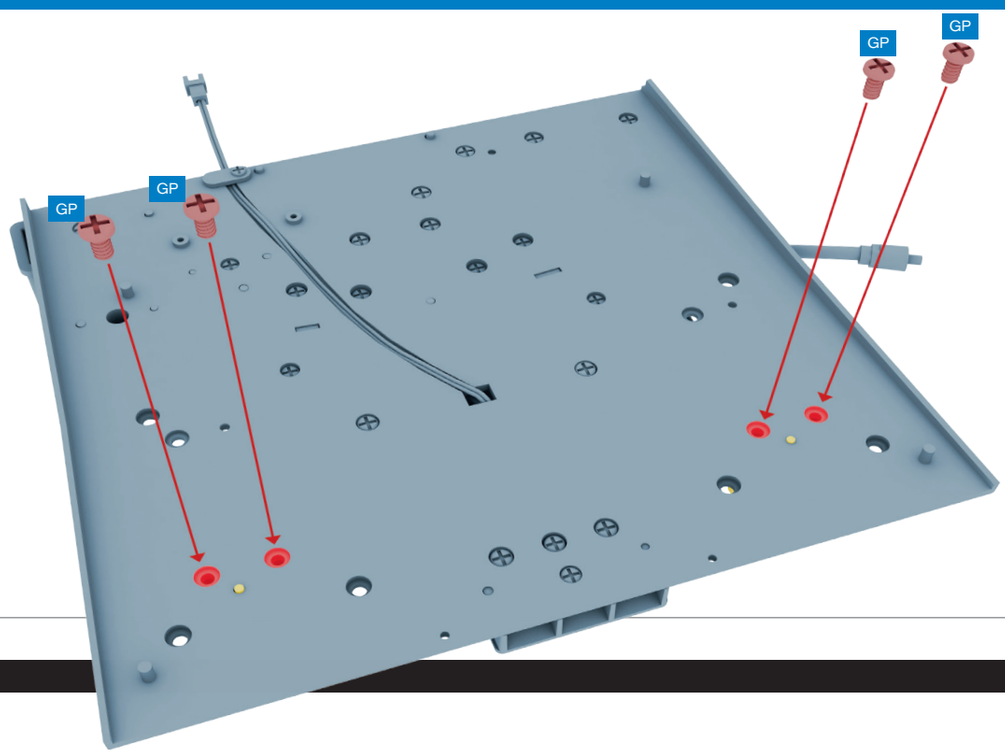


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STEP 5 ›› Push the two brackets (parts 119D) in place on the reactor platform as shown.

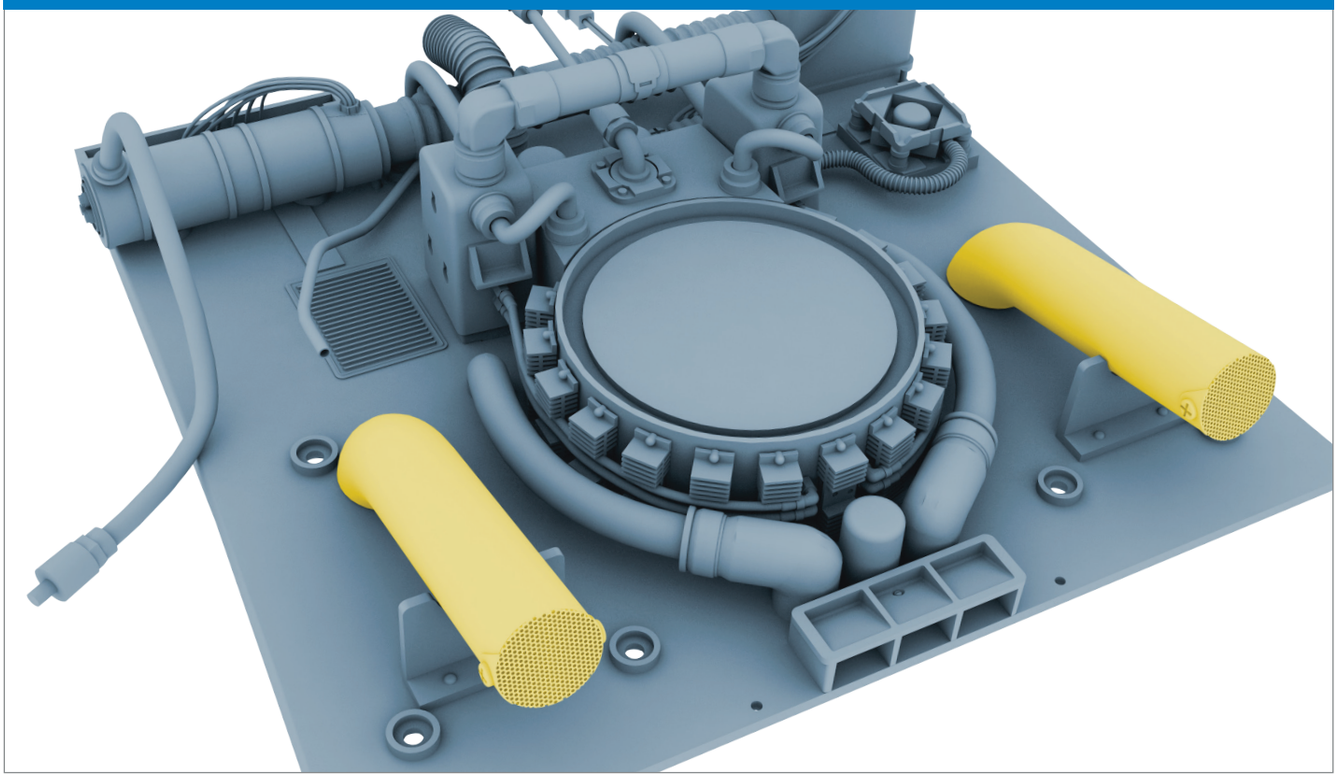


STEP 6 ›› From the other side of the reactor platform, secure the brackets with four GP screws in the holes shown.

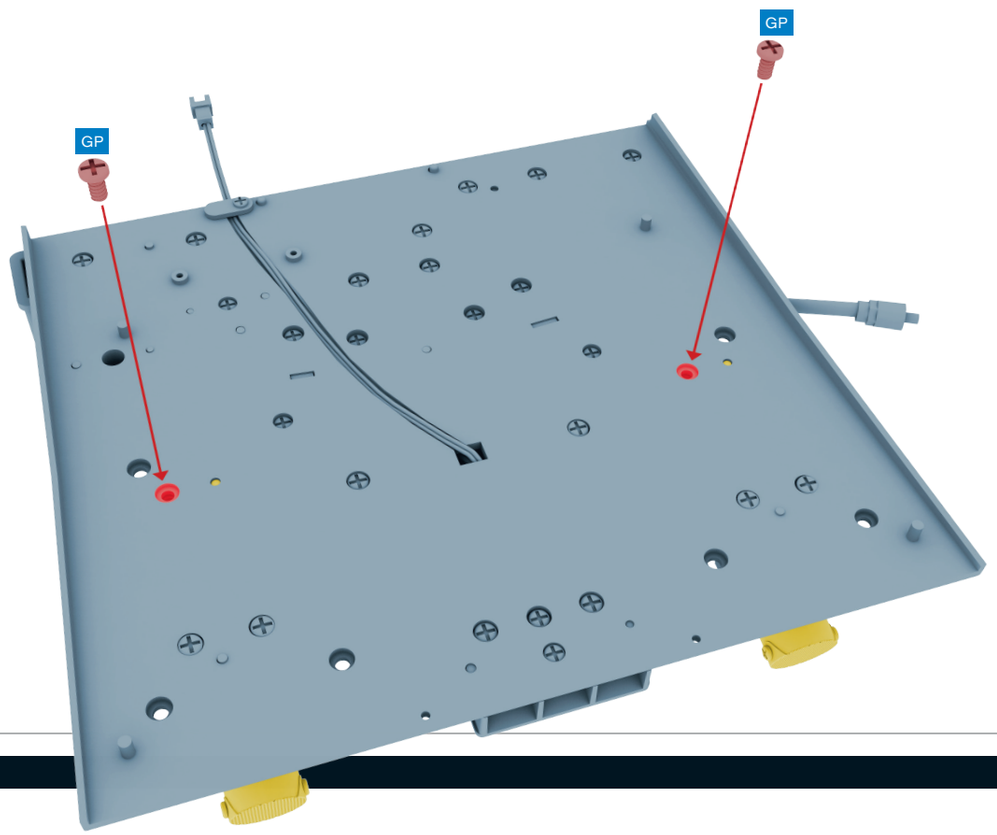


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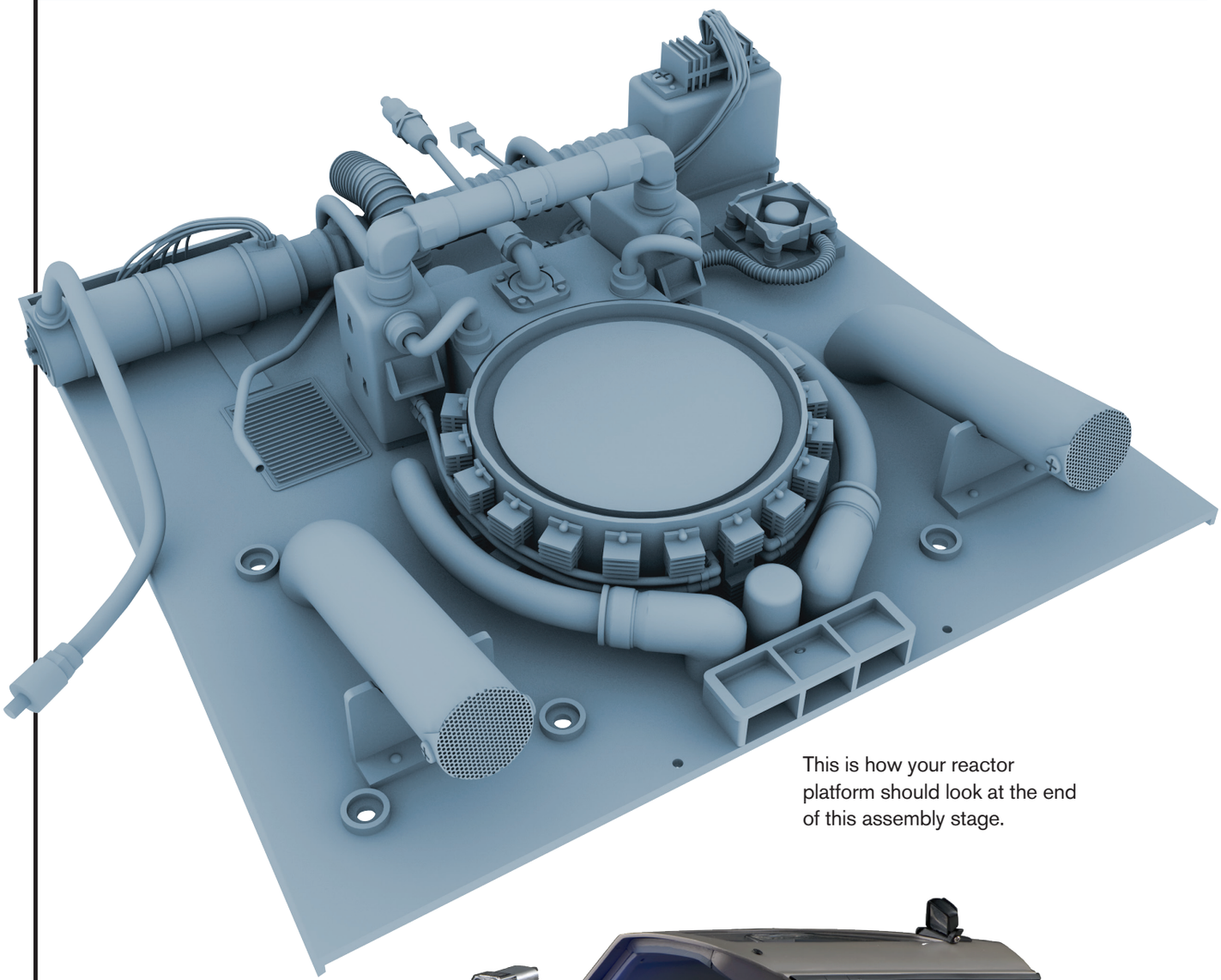
STEP 7 ›› Push the two assembled exhaust pipes into place on the reactor platform as shown.



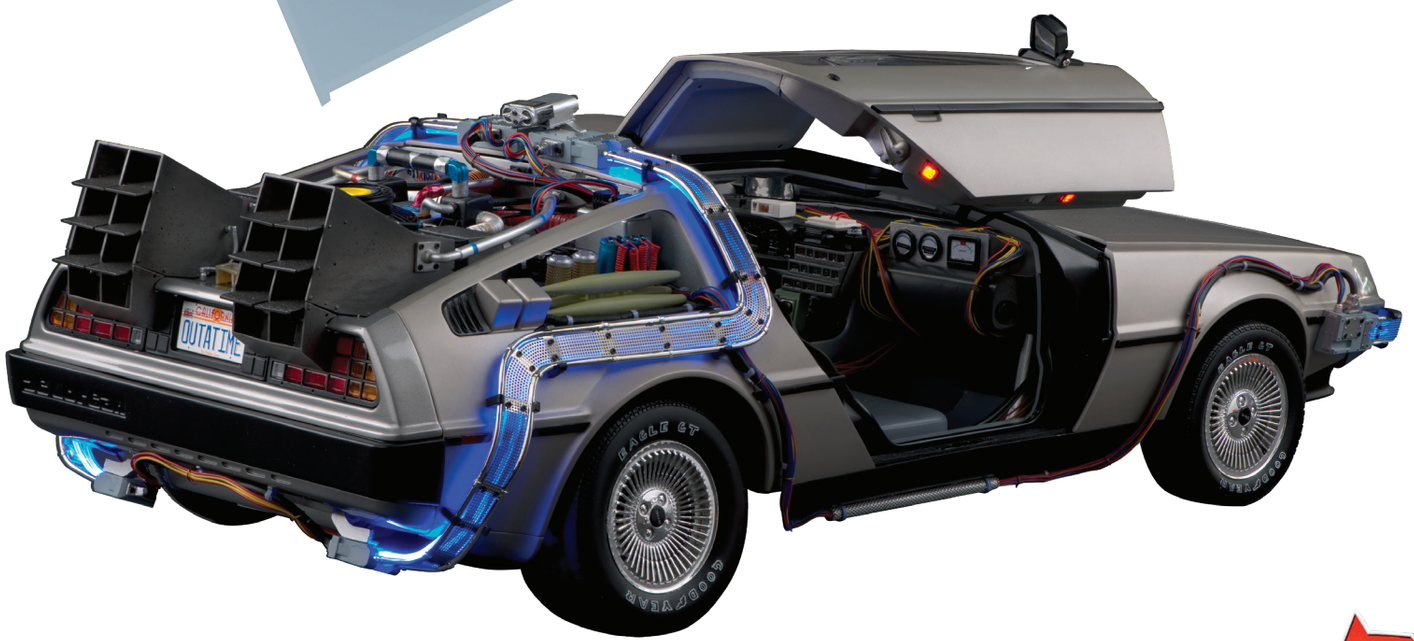
STEP 8 ›› From the other side, secure the exhaust pipes with two GP screws.



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This is how your reactor platform should look at the end of this assembly stage.



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WHAT CHRISTOPHER LLOYD DID NEXT

LIFE AFTER DOC BROWN

After *Back to the Future,* Christopher Lloyd continued to be one of the most in-demand character actors in Hollywood.



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EVERYONE'S FAVOURITE MARTIAN

Lloyd as Uncle Martin in My Favourite Martian, *the 1999 film of the famous TV series directed by Donald Petrie. 'The Martian has Landed' ran the tagline, 'There goes the neighbourhood.'*

After completing his role as Doc Brown in *Back to the Future Parts II* and *III*, Christopher Lloyd was immediately snapped up by Hollywood to lend his unique brand of humour to any number of film and television projects, across all genres. Between high-profile roles in films such as *Suburban Commando* (a 1991 vehicle for wrestler Hulk Hogan) were cherishable turns in obscure TV movies such as1992's *T-Bone 'n' Weasel*, in which Lloyd (as William 'Weasel' Weasler) and Gregory Hines played a pair of squabbling ex-cons who team up for a chaotic crime spree.

One of Lloyd's most successful and memorable post-*Back to the Future* roles was as Uncle Fester in the movie *The Addams Family* (1991). In a star cast including Anjelica Huston as Morticia, Christina Ricci as Wednesday and Raul Julia as Gomez, Lloyd gave a hilarious stand-out performance. The film was a hit, and a sequel, which gave more screen time to Lloyd, followed in 1993. In *Addams Family Values,* the family attempts to rescue Fester from his gold-digging new love – a murderous 'black widow' named Debbie, played by Joan Cusack.

In the same year, in the comedy *Dennis the Menace,* Lloyd played a villain called Switchblade Sam. The film co-starred Walter Matthau and Joan Plowright and saw Lloyd sharing the bill again with Lea Thompson (Lorraine in *Back to the Future*) who played Dennis' mother.

The 1994 TV movie *In Search of Dr Seuss* saw Lloyd inhabiting another legendary character, The Cat in the Hat, in a tribute to Theodore Geisel, better known as children's writer Dr Seuss. Lloyd's high-profile co-stars included Robin Williams, Patrick Stewart and Kathy Najimy.

MASTERCLASS

In *Things To Do In Denver When You're Dead* (1995), Lloyd was again a strong part of an ensemble cast, including Andy Garcia, Treat Williams, Steve Buscemi and Fairuza Balk. In a change from his zany comedic turns, Lloyd gives a masterclass in wry, heartbreaking understatement.

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THE RIGHT TO REMAIN SILENT

Christopher Lloyd as Johnny Benjamin in the 1996 TV movie The Right to Reman Silent*, a portmanteau film based on a stage play concerning eight different police arrests. Lea Thompson co-starred.*

"I loved that movie, and I think it was a little overlooked," Lloyd admitted. "It's an odd one, but I love it. Andy Garcia was wonderful to work with – he just pulls it right out of you. A special movie."

In the TV movie *The Right to Remain Silent* (1996), Lloyd was reunited again with Lea Thompson, as rookie cop Christine Paley, who takes part in eight arrests, one of which is Lloyd's character. Lloyd continued to find iconic roles, including providing the voice of Rasputin in the animated film *Anastasia* (1997), playing extraterrestrial Uncle Martin in a film of the TV series *My Favourite Martian* (1999) and playing a doleful White Knight in a TV version of *Alice in Wonderland*. Also in 1999, Lloyd was reunited on TV with Michael J. Fox in an episode of Fox's comedy *Spin City*. Entitled *Back to the Future IV – Judgment Day*, the episode saw Lloyd play a former mentor of Fox's character who declares himself to be God! ■

TO BE CONTINUED....

FANTASIC FESTER

*Lloyd was at his brilliant best in two films based on the grotesque characters of cartoonist Charles Addams (*The Addams Family*, 1991, and* Addams Family Values*, 1993) in which Lloyd played the irrepressibly ghoulish Uncle Fester.*



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LIGHTNING

POWER FROM THE SKIES

There's a lot of power in a bolt of lightning – but can it really reach 1.21 gigawatts?

For most of human history, people have lived in fear of lightning. In legend, thunderbolts were sent down by the gods to punish mortals, and in fiction lightning has been used for everything from bestowing magical powers to bringing the dead back to life.

Science has revealed that lightning is an electrostatic discharge that occurs between electrically charged regions of a cloud, or between the cloud and the ground, and though we now know what causes lightning, there is still something deeply magical about it.

And of course, it plays a crucial part in the adventures of Marty McFly – but can a lightning strike, as Doc Brown states, generate 1.21 gigawatts? The answer is yes, but it is difficult to answer precisely. Lightning generates temperatures hotter than the surface of the sun, in excess of 20,000 degrees Celsius, and while temperature measurement can be used to estimate the energy of lightning, there are too many variables for accuracy.

Recent research has studied fulgurites – hollow tubes of rock formed when lightning travels through sand. The findings suggest that fulgurite is created in thousandths of a second, using many megajoules of energy. It takes around 15 megajoules of energy to heat and vaporise a kilogram of sand. So, a gigawatt would be a low estimate – a lightning bolt could potentially generate more than a terawatt, although the average is probably tens of gigawatts. No wonder the circuits were fried going back to 1885! ■

> **"The only power source capable of generating 1.21 gigawatts of electricity is a bolt of lightning!"**
>
> DOC BROWN

Left: Lightning strikes the clock tower in Hill Valley Town Square, generating enough energy to send Marty back to the future.

QUICK FACTS!

THE BIG FLASH

● Visual effects supervisor Ken Ralston and his crew at Industrial Light & Magic created the lightning storm at the climax of *Back to the Future* in post-production. Animator Wes Takahashi actually drew the lightning which Bob Gale and Robert Zemeckis described in their script as 'the most spectacular bolt of lightning in the history of cinema'. Takahashi experimented with various shapes before deciding on the serpentine configuration that ended up in the film. He also hand-drew the tendrils of lightning shooting along Doc's cables and into the DeLorean.



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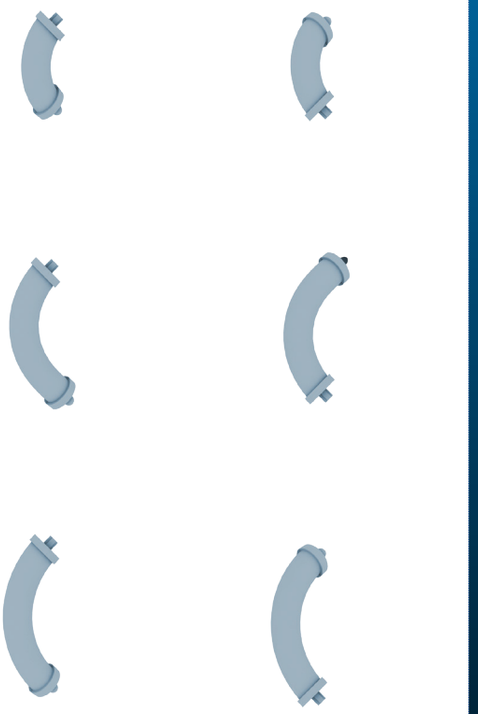
NEXT ISSUE...

REACTOR PIPES

Fix six pipes into the reactor of your DeLorean.

With next issue, you will receive six curved exhaust pipes for your DeLorean's reactor, which you will be able to fit by following the step-by-step guide.

YOUR CAR PARTS...





TIME TRAVELLER'S GUIDE

Marty McFly finds himself in the unlikely position of giving advice and encouragement to his father before the Enchantment Under the Sea dance.

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