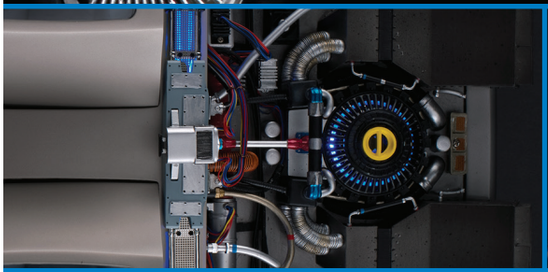
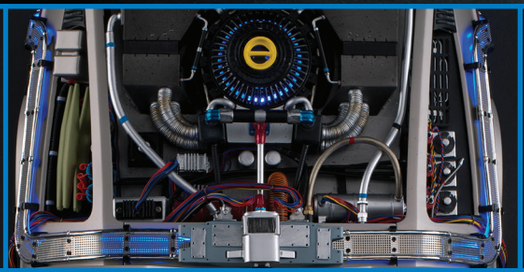
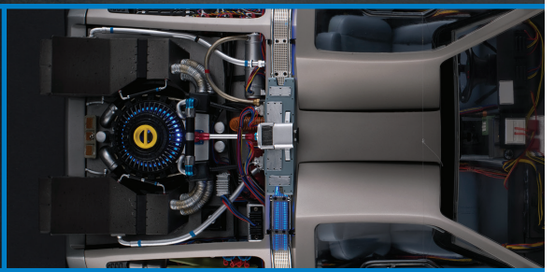
BUILD THE BACK TO THE FUTURE™ DELOREAN

ISSUE 105









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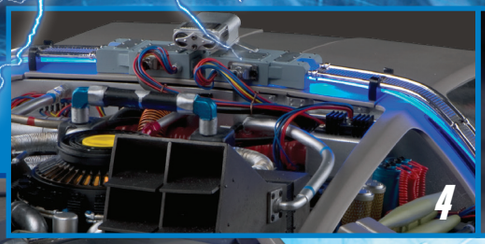
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BUILD THE

BACK TO THE FUTURE™ DELOREAN

ISSUE 105





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Add another junction box and lighting filament to your DeLorean by following the step-by-step guide.

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10 **A TIME TRAVELLER'S GUIDE**
In order to retrieve the Sports Almanac and prevent Biff destroying the future, Marty has the hoverboard ride of his life!

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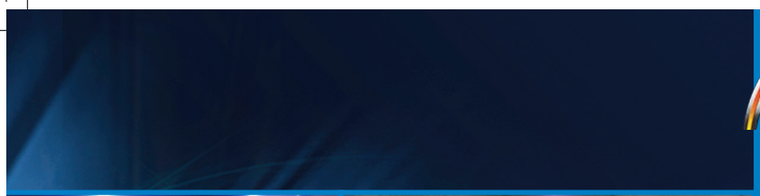
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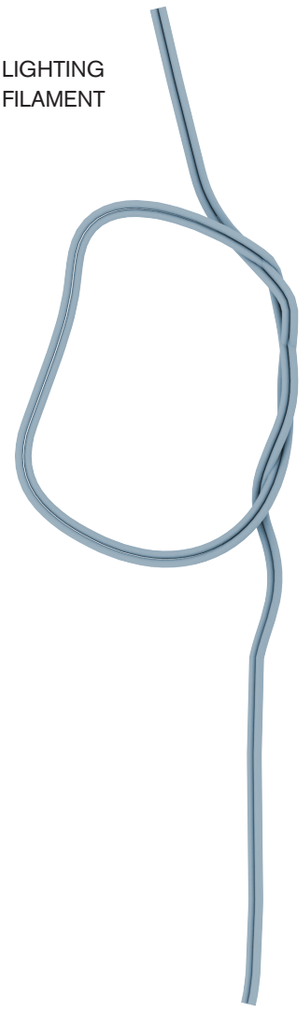




YOUR CAR PARTS

With this issue you receive the junction box and lighting filament for the top right side of your DeLorean.

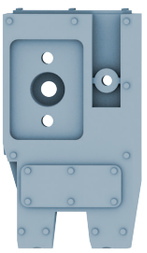
105A LIGHTING FILAMENT



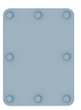


105B BRACKET

105C JUNCTION BOX



105B PLATE



105 ADHESIVE TAPE



IP SCREW X 2

NM SCREW

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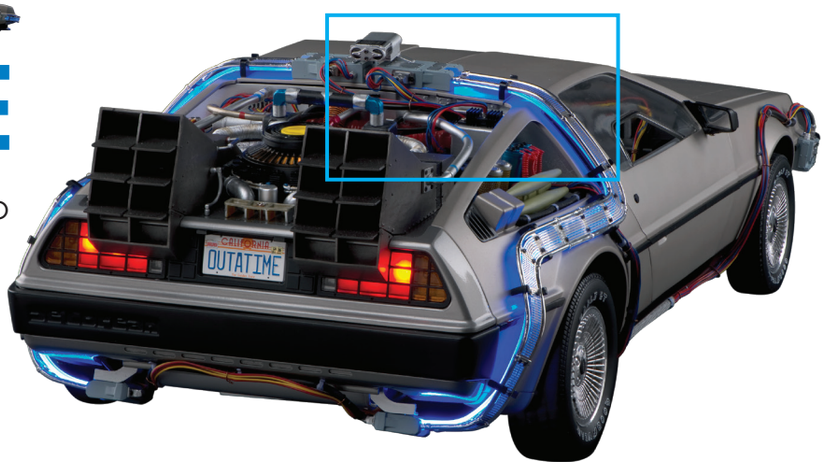
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DRIVE TIME

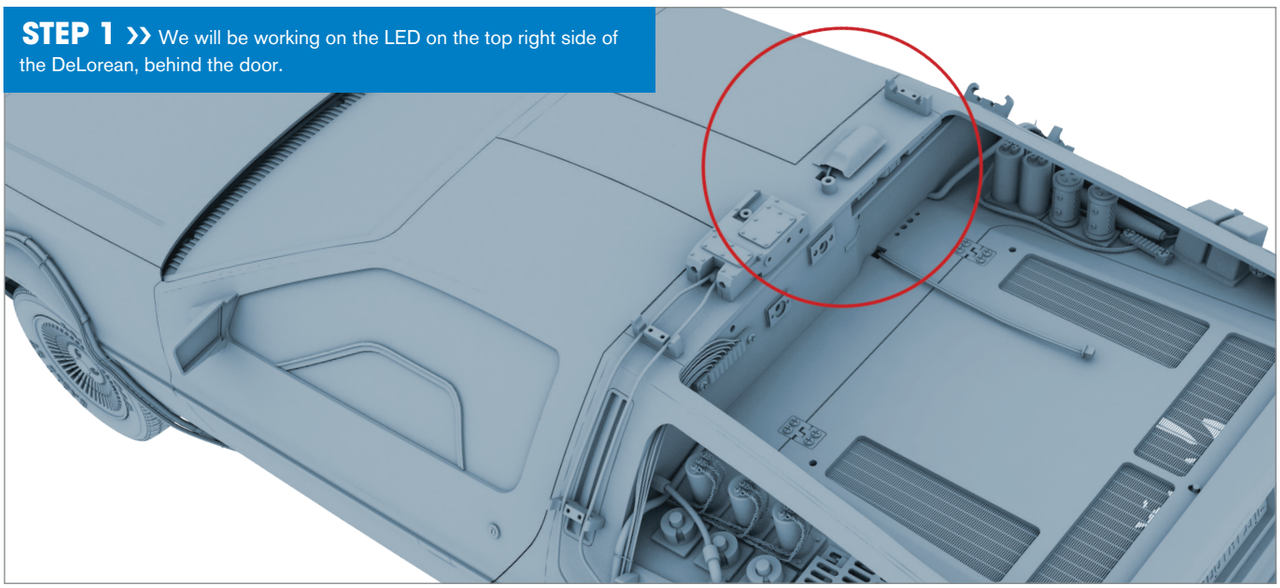
Add another junction box to the top of your DeLorean model.

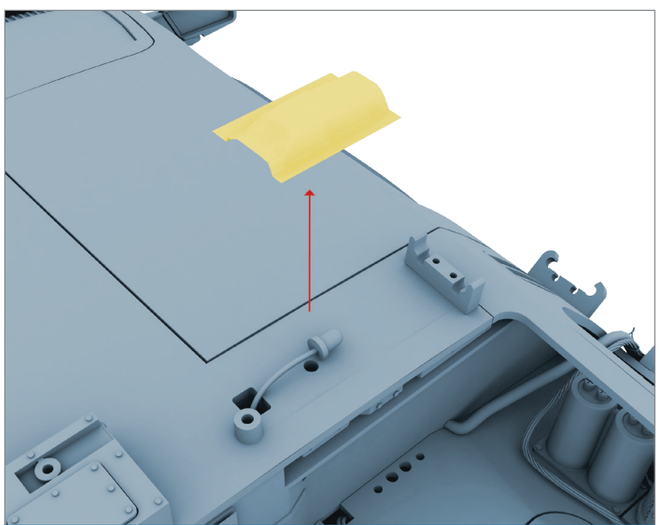
Add a junction box to the top right side of your DeLorean, by following the step-by-step guide.



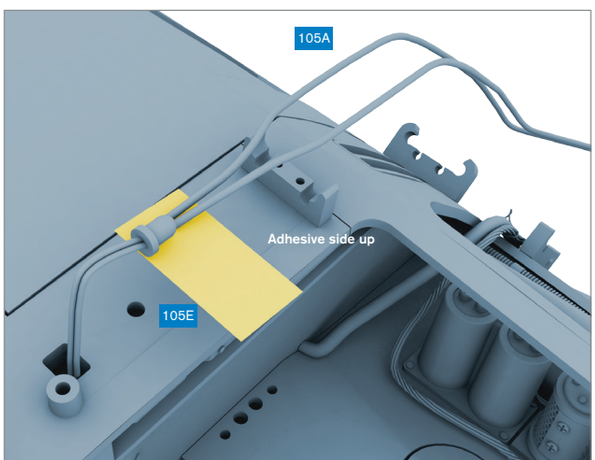
JUCTION BOX, TOP RIGHT SIDE

STEP 1 ›› We will be working on the LED on the top right side of the DeLorean, behind the door.



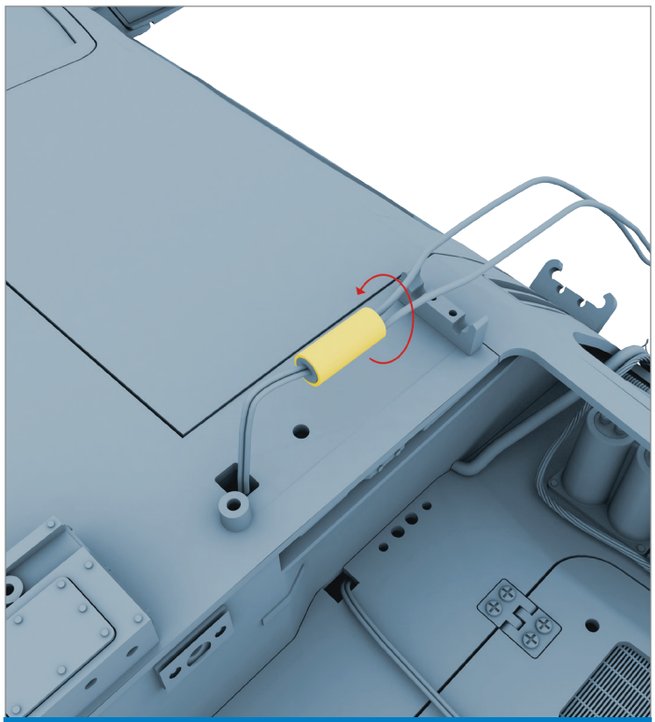


STEP 2 ›› Remove and discard the tape protecting the LED.

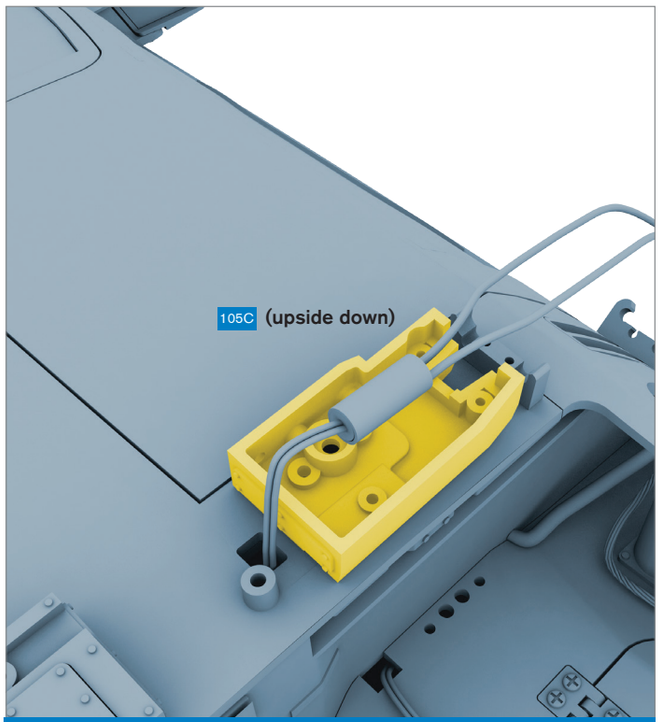


STEP 3 ›› Carefully position tape 105E as shown, with the adhesive side up. Place both strands of the lighting filament 105A on the tape, up against the LED.

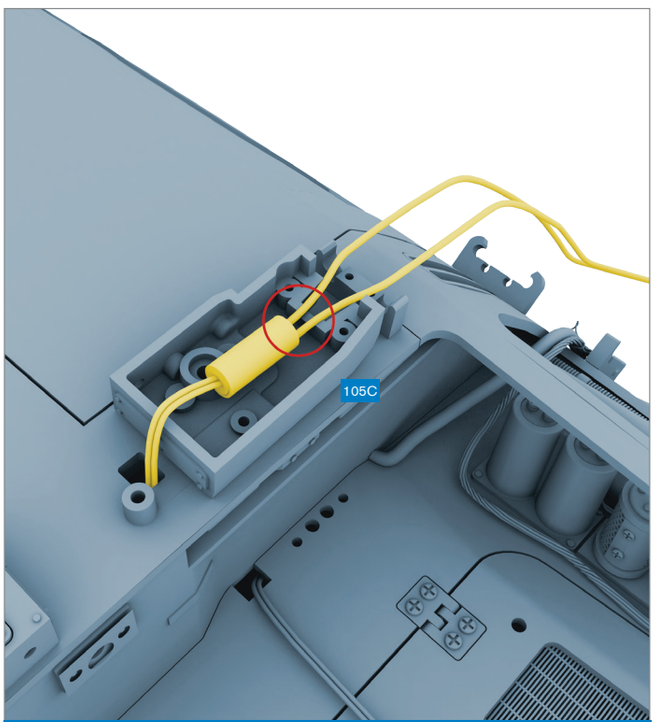
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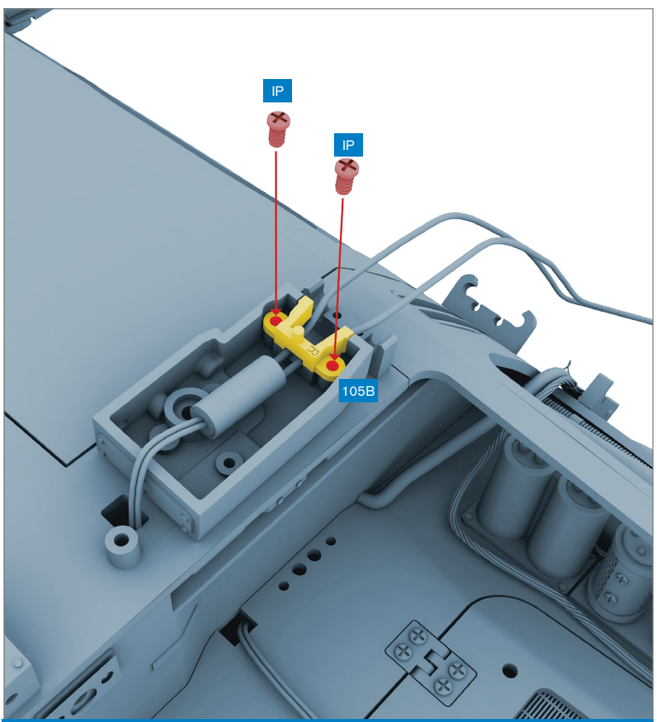
STEP 4 ›› Carefully wrap the tape around the LED and filaments to keep them secure.



STEP 5 ›› Turn part 105C upside down as shown and position it underneath the LED and filaments.

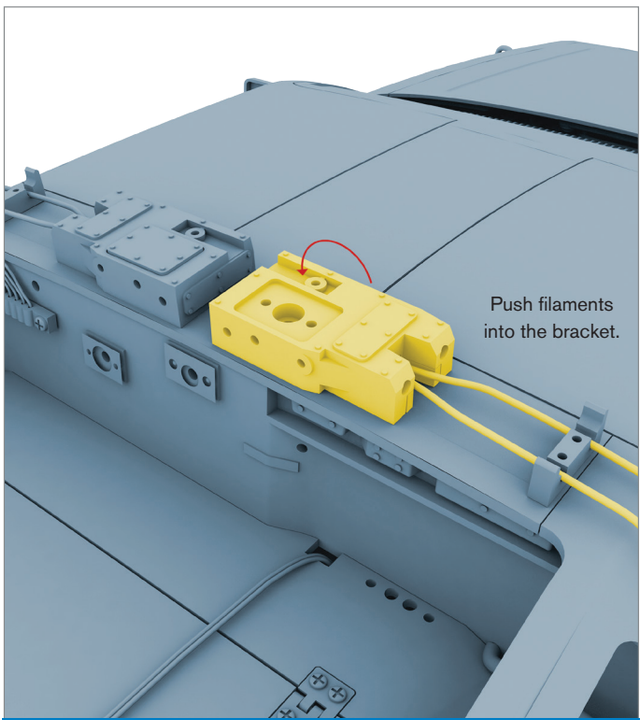


STEP 6 ›› Place the parts in 105C, ensuring that the filaments fit into the notch in the junction box as shown.

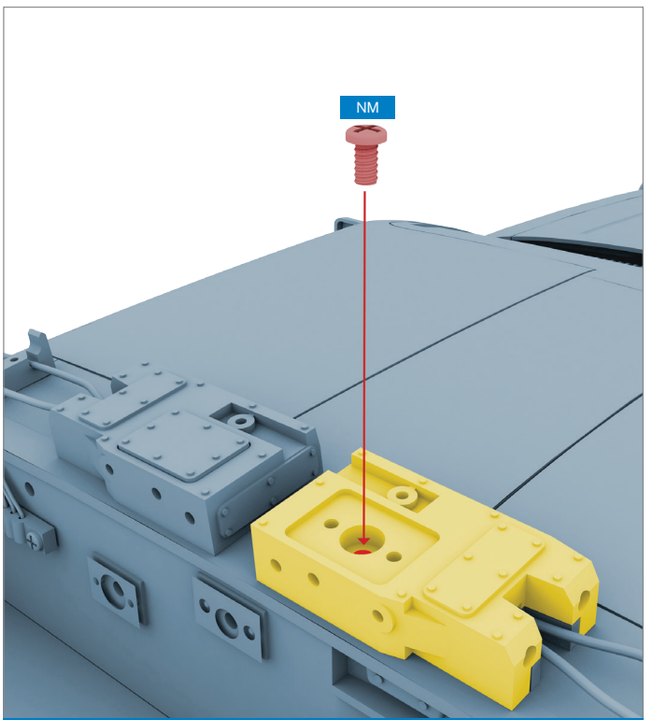


STEP 7 ›› Keep the filaments in place with part 105B, marked 'R'. Fix two IP screws in the holes shown to secure the parts.

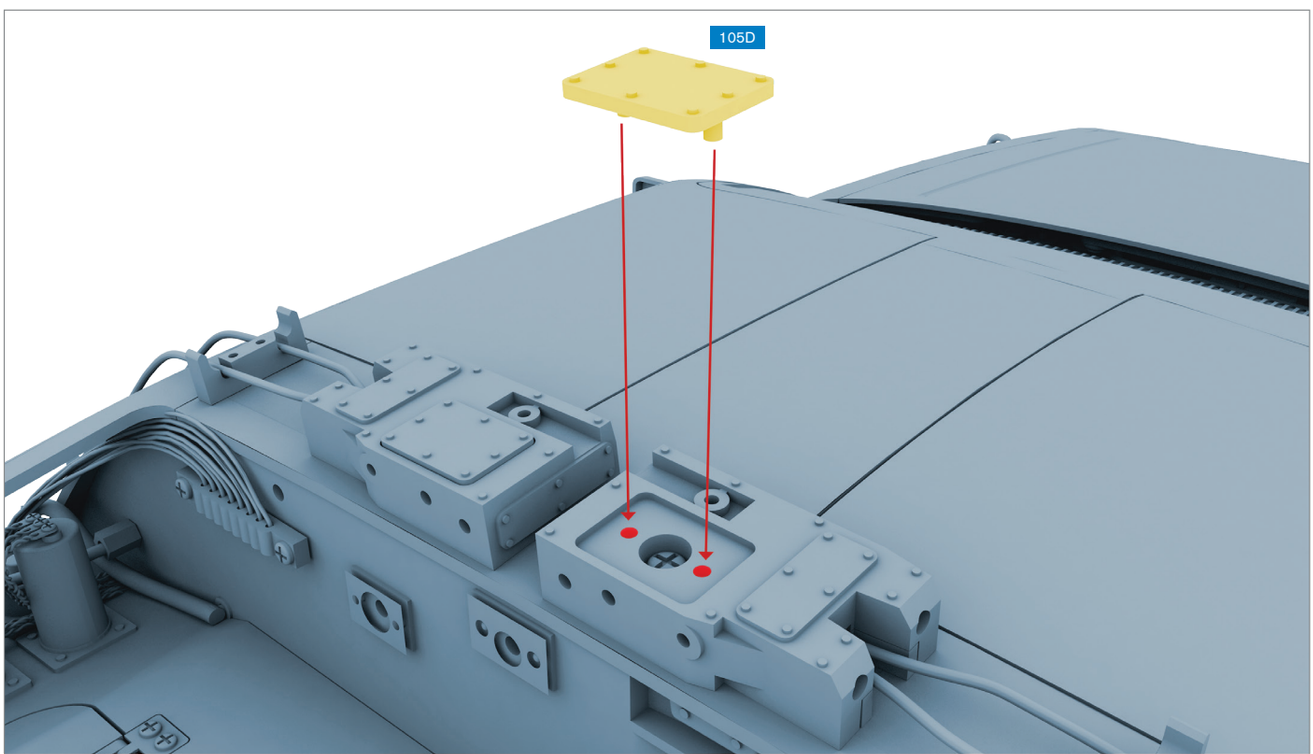
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STEP 8 ›› Flip the assembly over and push into place by aligning the post and socket. Push the filaments into place in the bracket.



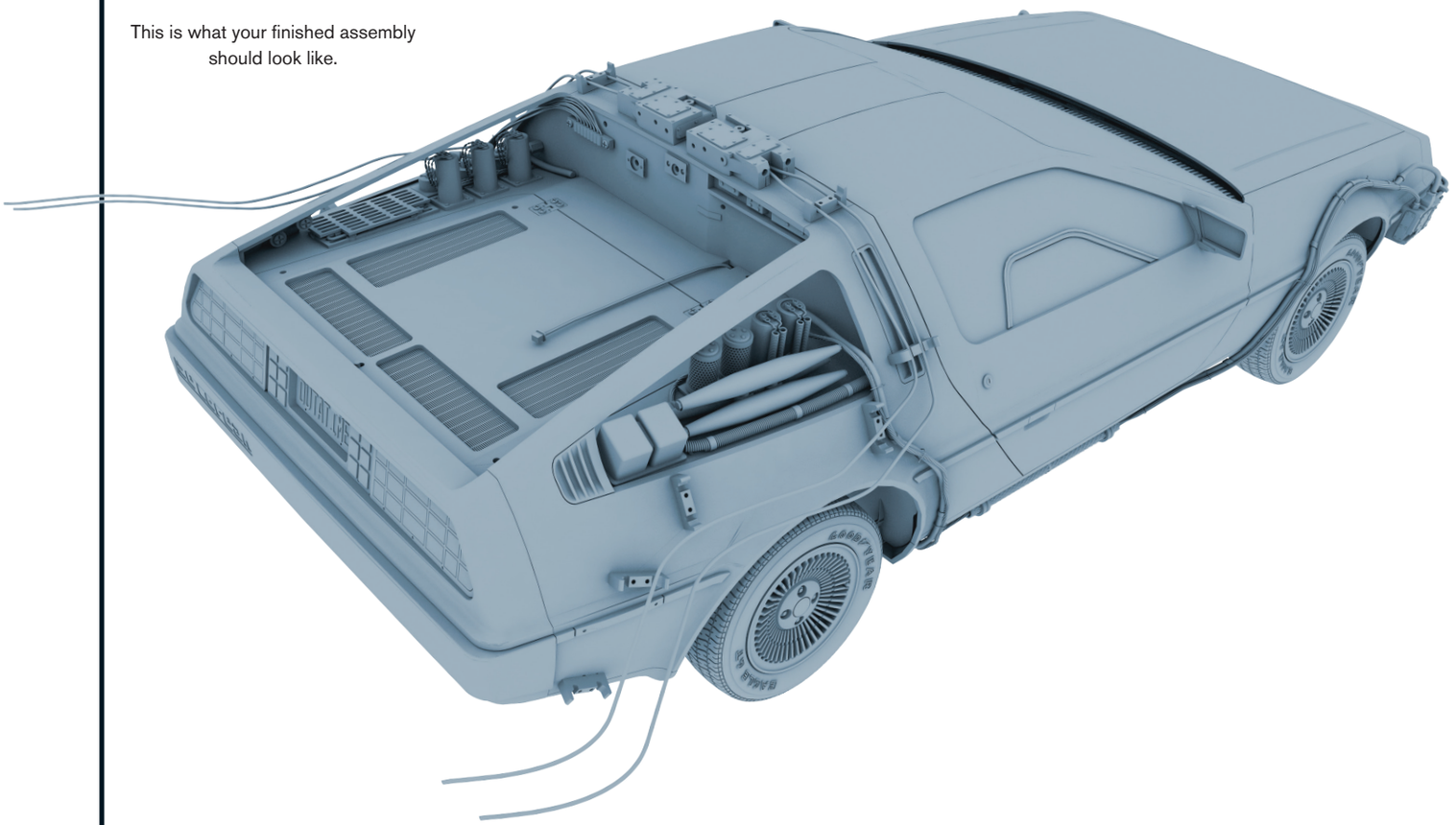
STEP 9 ›› Fix the junction box in place with an NM screw in the hole indicated. Do not overtighten the screw.

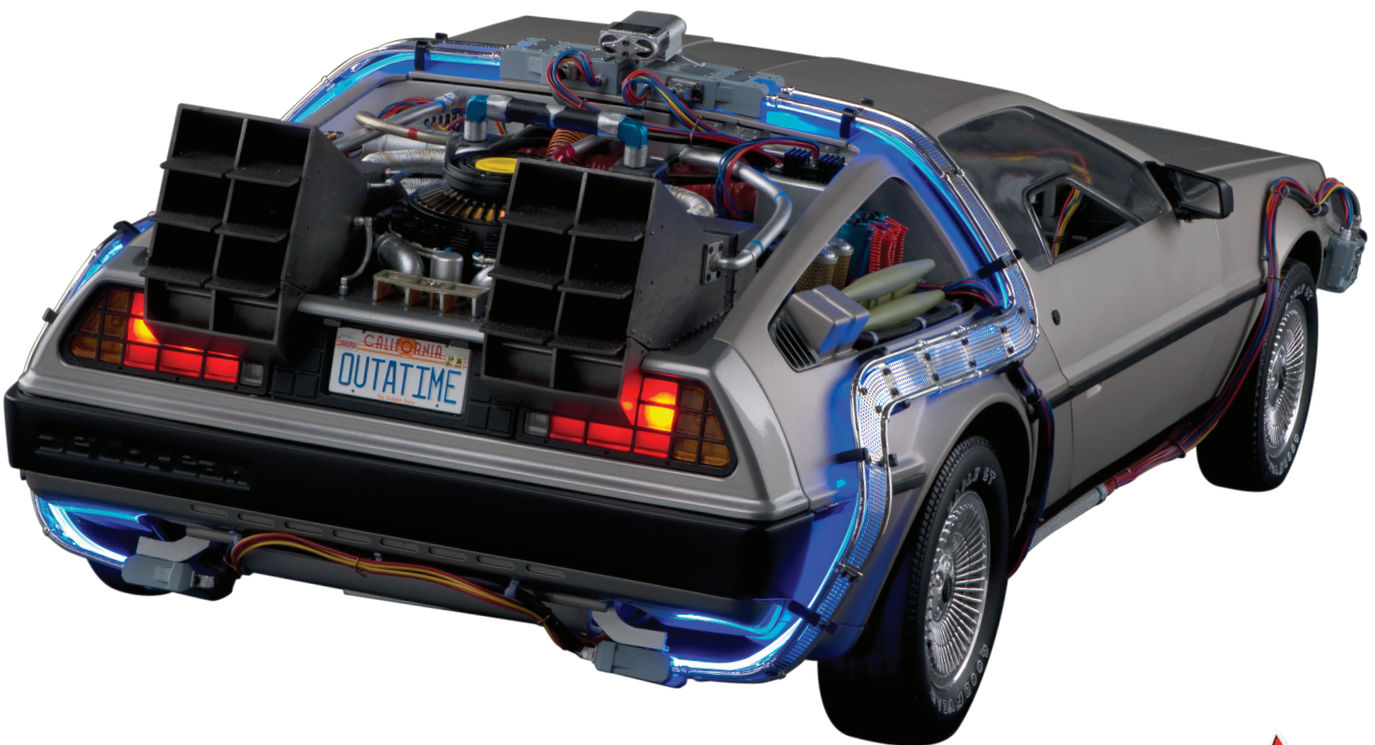


STEP 10 ›› Finish off the junction box with the plate 105D, which can be fitted by aligning the posts and holes as shown.

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This is what your finished assembly should look like.





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INDUSTRIAL LIGHT & MAGIC

MOVIE MIRACLE WORKERS

More from the legendary effects house on *Back to the Future Part II* including multiple Biffs and some very heavy weather.



© Entertainment Pictures/ Alamy Stock Photo

TALKING TO HIMSELF
Effects shots from ILM of young Biff encountering his older self, with Thomas Wilson playing both parts. The divider in the car's windshield provided a useful disguise for the split-screen process.

The most taxing scenes for the effects crews of Industrial Light & Magic in *Back to the Future Part II* were those featuring multiple versions of the same actor. To add extra difficulty, there were scenes where items were passed from one character to another, such as the 'family dinner' scene in 2015 with the two McFly children (both played by Michael J Fox) or the meeting between old Biff and young Biff (played by Thomas Wilson) in 1955. The McFly family meal was at least filmed in a studio, where lighting could be carefully controlled to match up the individual elements. The meeting between the two Biffs, however, was filmed on the Courthouse Square lot where the crew was at the mercy of the elements.

TALE OF TWO BIFFS

"We had old Biff sitting inside the car," explained Ken Ralston, the film's visual effects supervisor. "It was easier to start with Tom in old-age make-up, then clean it off him. Because he was in the car we were able to conceal the tremendous change in light that particular day. When we shot old Biff it was cloudy and when we shot young Biff the sun had come out."

Old and young Biff then drive to Biff's garage, a studio set, which allowed the scene to continue under controlled lighting. The divider in the windshield of Biff's 1946 Ford helped the team conceal the join in the matted elements.

But there were other problems with the car, as Ralston explained. "For the splits to work we had to immobilise the car to keep it from rocking back and forth as Tom moved. But it was all in one shot, so as soon as the car came to a stop, a bunch of guys had to come in under the frame and wedge all kinds of stuff under the car to keep it from wobbling around too much. After the first cut in the scene we could jack it up and really immobilise it,

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A DELOREAN STRUCK BY LIGHTNING

ILM's climactic (and climatic) display sends Doc Brown back to 1885. The model DeLorean was strung on wires and manipulated like a puppet for this scene.

but for the shot of it driving in and stopping we had to wedge apple boxes under it. We stay with old Biff as the car drives in, then when it comes to a stop, the camera pulls back and reveals them both." The split-screen effect was also used to allow Christopher Lloyd to interact with himself in the scene where Doc hands himself a wrench, and for two Martys to be seen backstage at the dance.

DOC AND THE BIG BANG

For the final effects shot of *Part II*, ILM went back to a technique older than movie-making – puppetry. As Marty finally destroys the Sports Almanac, the storm is gathering force. Doc struggles to land the DeLorean as Marty shouts "Watch out Doc, you don't want to get struck by ... lightning!" just as a jagged white streak engulfs the hovering car.

To get this shot, the existing DeLorean model body was placed on a battery-powered chassis then hung from a wire rig with two stage technicians acting as puppeteers to pitch and roll the car like a boat in a storm. "Essentially, it was shot live," said model artist Steve Gawley. "This was getting towards the end of our shooting schedule and they were adding new shots, so we had to think fast."

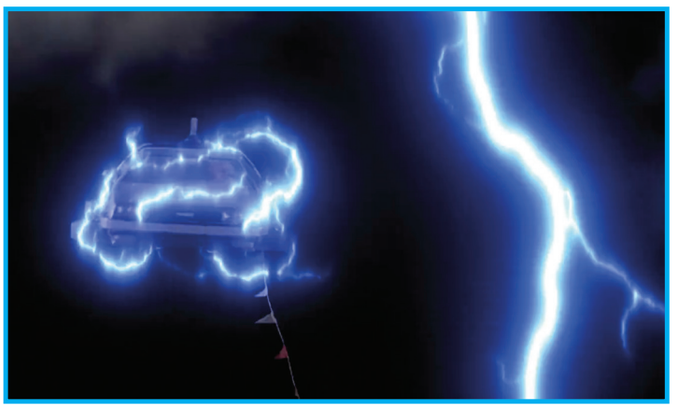
FLASHES OF INSPIRATION

The model footage was matted onto a background of cotton fibre clouds, then Wes Takahashi and the ILM animation team got to work on the lightning bolts. "We figured out the point at which the lightning should hit the DeLorean, and added flashes coming out of the fibre clouds. A decision was made afterwards to remove frames from the film to speed up the movement of the car once it was hit."

Takahashi animated the crawling electricity that covers the DeLorean and fellow animator Sean Turner created the 'hero' lightning bolt. Chris Green created the explosion/implosion effect and hand-animated the two streaks of fire that do a loop-the-loop and extinguish themselves.

With the effects on *Part II* complete, there was barely a pause before ILM was required to start making magic for *Part III*... ■ TO BE CONTINUED...









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INTO THE TUNNEL

GOING AFTER THE ALMANAC

In a desperate attempt to retrieve the Sports Almanac, Marty goes after Biff's car.

Marty is back in 1955 again, on the trail of the Sports Almanac which has fallen into the gorilla-like hands of Biff Tannen, and could wreak irreparable damage to the Space-Time continuum. Having failed to retrieve the fateful book at the Enchantment Under the Sea dance, Marty and Doc give chase as Biff speeds off in his 1946 Ford, the same vehicle that had an encounter with a manure truck when Marty first went back to 1955.

The DeLorean follows the Ford, hovering above it, unnoticed by Tannen, while Marty looks down through a pair of binoculars.

"There he is, Doc," says Marty. "Let's land on him and cripple his car!"

"Marty,' Doc explains, "he's in a '46 Ford, we're in a Delorean, he'd rip through us like we were tin foil!"

What follows is one of Marty's most hair-raising escapades as he attempts to use the hoverboard to get alongside Biff's car. Keeping out of sight, he gently opens the door to retrieve the book from the back seat. But Biff spots him, and proceeds to try to fling Marty off by swerving the car. As the Ford enters a tunnel, Biff tries to crush Marty between the car and the tunnel wall, then drives him into the path of an oncoming truck... ■

> **"He's in a '46 Ford, we're in a DeLorean, he'd rip through us like we were tin foil."**
>
> DOC BROWN

Left: Biff bears down on Marty in his 1946 Ford. The tunnel scenes were filmed in Griffith Park in Hollywood, near the famous observatory.

QUICK FACTS!

TUNNEL FX

● On filming the hoverboard scenes in the tunnel, effects supervisor Michael Lantieri said "I thought the tunnel would be the best place to hide wires but it turned out to be the worst! Fortunately, the graphics people got so good at removing wires that I said 'I'm not even going to try to be careful anymore, I'll just use rope and see how good they *really* are'. At one point we used a cable on the cars and they were able to get rid of that. We even had a shot where there was a huge pipe holding up the hoverboard and they were able to remove that too!"



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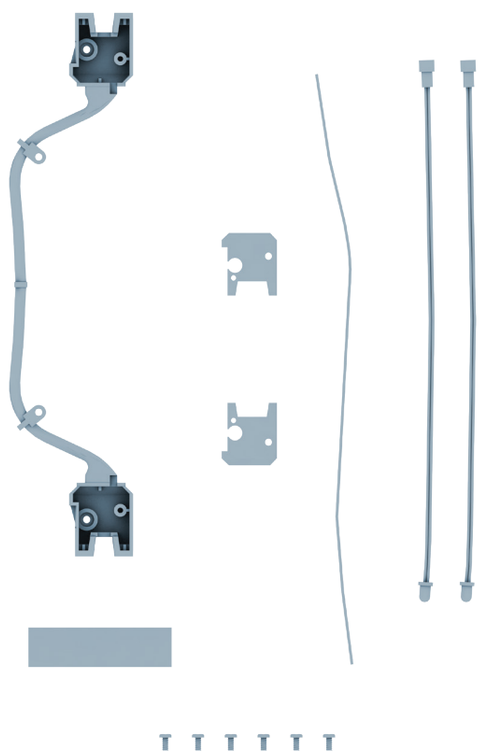
NEXT ISSUE...

REAR WIRING

Add a cable and wires to the rear of your DeLorean.

With next issue, you will receive more components for the rear of your DeLorean which you can fit by following the step-by-step guide.

YOUR CAR PARTS...





TIME TRAVELLER'S GUIDE

Wendy Jo Sperber, the much-loved and much-missed comedy actress who played Marty's sister Linda in *Back to the Future.*

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