BUILD THE

BACK TO THE FUTURE™ DELOREAN

ISSUE 05







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

UNIVERSAL

BUILD THE

BACK TO THE FUTURE™ DELOREAN

ISSUE 05





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YOUR CAR PARTS

With this issue you receive the parts for the left front suspension and brake.



5-A LEFT FRONT SUSPENSION



5-B LOWER LINK





5-E COILSPRING

5-D SHOCK ABSORBER



5-C CONTROL ARM



5-G BRAKE CALIPER



5-H POSITIONING COLUMN



5-E LEFT FRONT TIE HEAD



5-I SPRING



AM 2 X SCREWS



BM 2 X SCREWS



CM 2 X SCREWS



DM 3 X SCREWS



EM 1 X SCREW



AP 1 X SCREW



DP 1 X SCREW



5-F BRAKE DISC

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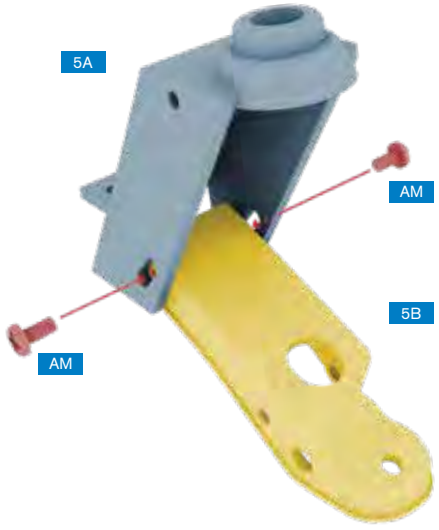
DRIVE TIME

The DeLorean needs some pretty strc suspension to deal with time travel...

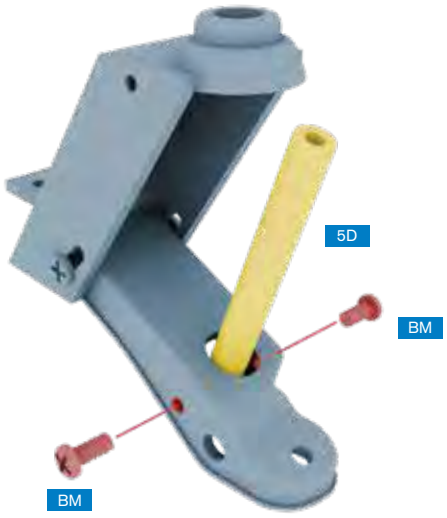


The parts of the DeLorean received with this stage make up the left front suspension, brake disc and caliper, parts that would have had to have been extra strong on Doc's modified DMC-12.

LEFT FRONT SUSPENSION



STEP 1 ›› Fit part 5B into the gap at the bottom of part 5A and secure with two AM screws.



STEP 2 ›› Pass part 5D up through the large hole in 5B, as shown, and secure with two BM screws.

A GRAND ENTRANCE

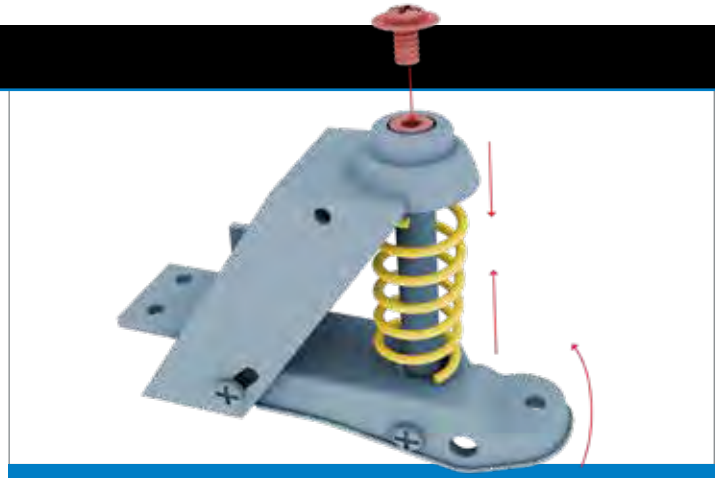
"The DeLorean was an important character in the movie," Robert Zemeckis pointed out, "obviously, because it's the device that sends our hero on his adventure, there wasn't a lot of thought about whether the car *should* have a grand entrance – it was just always assumed, in my mind, that it would." Zemeckis was well versed in cinema lore, and so our first sight of the DeLorean, emerging from the back of Doc Brown's truck, wreathed in clouds of smoke with red tail lights blazing, is certainly a 'grand entrance' worthy of a Hollywood icon. There's a wonderful sense of mystery at this apparition, reinforced when we find out what the amazing machine can actually do...



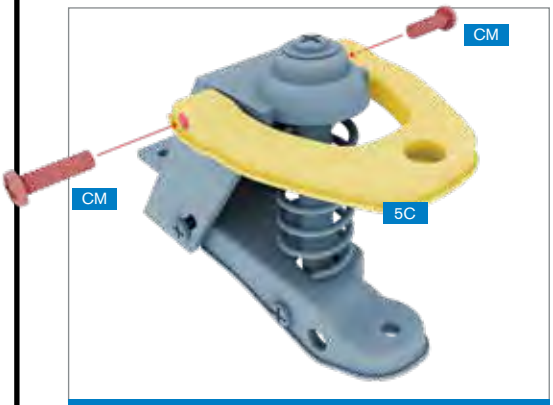
LEFT FRONT SUSPENSION



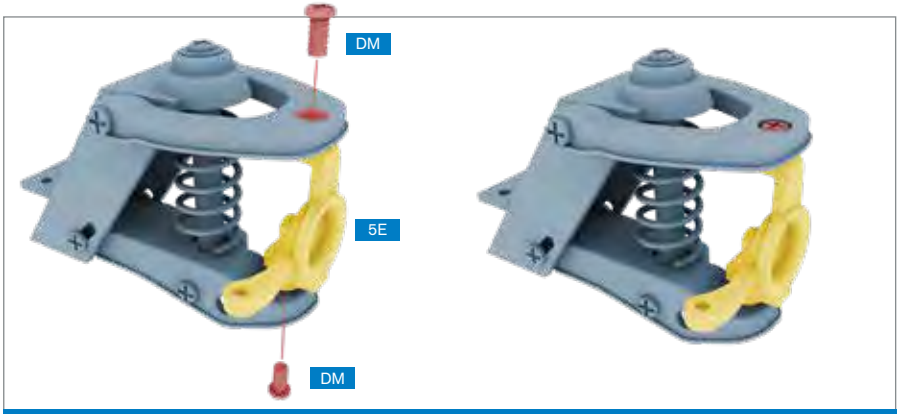
STEP 3 ›› Place the spring, part 5E, over 5D.



STEP 4 ›› Lower part 5A onto the top of 5D, and over 5E. Hold the parts together and secure with screw EM.

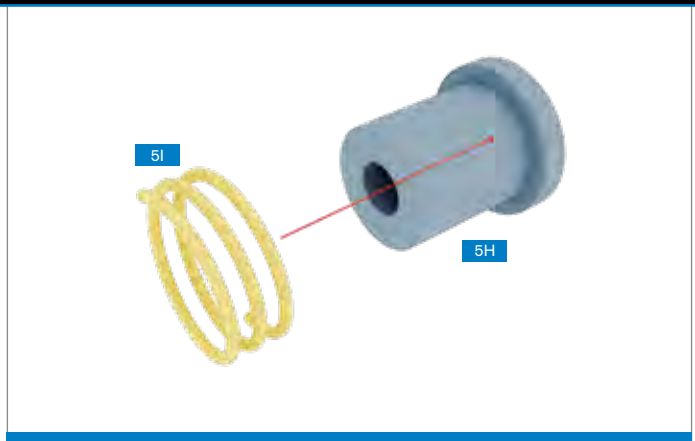


STEP 5 ›› Place 5C either side of the top of 5A, aligning the holes. Fix the two together with two CM screws.



STEP 6 ›› Position 5E between parts 5C and 5B. Align the corresponding holes of the parts and secure with DM screws, shown above right.

LEFT FRONT BRAKE



STEP 1 ›› Place part 5I onto part 5H, as indicated above.



STEP 2 ›› Insert the assembly into the hole at the end of the arm of part 5F, and then secure with a DP screw.

LEFT FRONT BRAKE

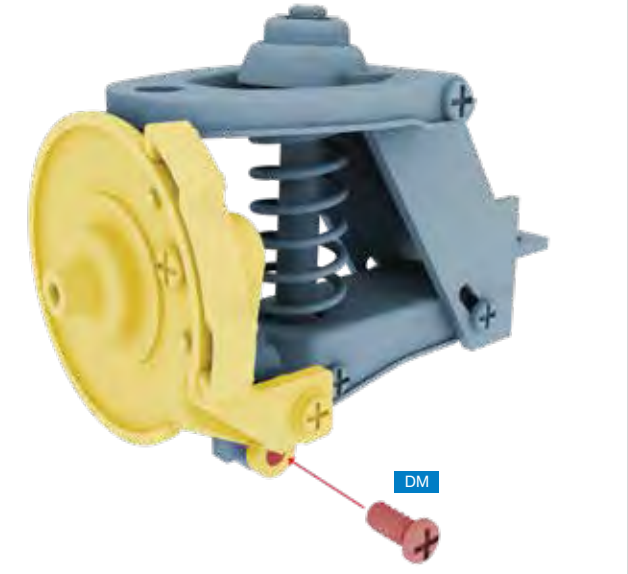


STEP 3A ›› Align the holes in part 5G with those in 5F. Tighten an AP screw through the central hole of part 5J to secure the two parts together.

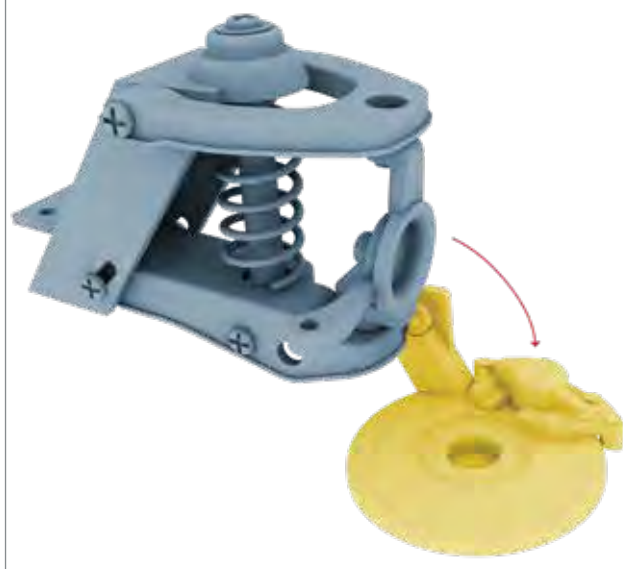


STEP 3B ›› This is how the parts should look after fitting.

COMBINING THE PARTS



STEP 1A ›› Hold the left front brake and suspension assemblies together, and secure them with a DM screw.



STEP 1B ›› Don't overtighten the screw because the brake assembly will need to move, as shown.

BARNSTORMING

The brakes certainly don't seem to be working very well when Marty crashes the DeLorean into Pa Peabody's barn in 1955! Although, to be fair, the car had just travelled through time. Marty emerges, dazed, wearing a radiation suit, and is immediately mistaken for an invading alien by young Sherman Peabody.



LEFT FRONT SUSPENSION AND BRAKE



This is what your finished assembly should look like.



LEADING LADY

One of several roles crucial to the success of Back to the Future *was the character of Lorraine Baines, Marty McFly's mother – a role which needed the skills of a very special actress...*

From its inception, *Back to the Future* was never just a time-travel movie, it was a story about people, so finding the right cast to bring the characters to life was of utmost importance. Discussions with the casting directors Michael Fenton and Jane Feinberg were taking place from the middle of August 1984, with the characters of Doc Brown and Marty the first to be discussed. With Christopher Lloyd in the frame for Doc, and Eric Stoltz as Marty, they moved on to Marty's parents, Lorraine and George. The added difficulty here was to find young actors who could, with the help of make-up and costume, play older versions of their characters.

Among the actresses considered for Lorraine were Toni Hudson, from 1984's *Places in the Heart*, Joyce Hyser, who appeared in *Staying Alive* and Barbara Howard, who later had a regular TV role in *Falcon Crest.*



ENCHANTED: *Crispin Glover as George and Lea Thompson as Lorraine kiss at last in* ***Back to the Future.***

"To play that innocence was really very hard!"

LEA THOMPSON ON LORRAINE

Perhaps the highest-profile candidate was Jennifer Jason Leigh, who had garnered praise for her role in *Fast Times at Ridgemont High* in 1982.

HOLLYWOOD STAR

However, the actress who made the greatest impression with director Robert Zemeckis and producer Bob Gale was Lea Thompson.

Born in 1961 in Minnesota, Thompson had trained as a ballet dancer but switched to acting. She appeared in a number of commercials then moved onto films and when she auditioned for *Back to the Future* was one of the busiest actresses in Hollywood. She had made her movie debut just the previous year in the high-profile *Jaws 3-D*, before starring in *All the Right Moves* opposite Tom Cruise and *Red Dawn* with C. Thomas Howell. She then worked with Eric Stoltz on the 1984 film *The Wild Life*, and Zemeckis and Gale watched that film to see Stoltz in action. "It was a case of 'Who's that girl?'" Thompson recalled with delight, and she was asked in to audition. She had become good friends with Stoltz while filming, which put her in good stead for working alongside him again.

She understood the character of Lorraine quickly, and wasn't even fazed by her screen test, when she found herself facing Steven Spielberg, who was manning the video camera while she tried on different wigs. If anything, she admitted later, it was playing the teenage version of Lorraine that would cause her more worry. "The young Lorraine was harder," Thompson admitted. "For the old Lorraine, I think I was playing one of my girlfriends' mothers. That was easy, but the young Lorraine... to commit to all that silliness and not wink at it? To play that innocence was really very hard."

GETTING IN CHARACTER

To put herself in the mindset of a teenager from the 1950s, Thompson read 30-year-old newspapers and magazines and listened to music of the era, particularly the song *Mr Sandman*, which was featured on the soundtrack. She found the costumes uncomfortable, particularly her corseted pink taffeta dress for the school dance, but admitted that they looked superb, and putting them on became just another part of her immersion in the 1950s world. ■

STARTING OUT

After appearances in TV commercials and a murder-mystery video game called *Murder, Anyone?* Lea Thompson made her film debut in *Jaws 3D* in 1983. Other high-profile film work followed with some auspicious directors and co-stars.



RED DAWN (1984)

Apocalyptic action movie about a Russian invasion of the USA, from writer/director John Milius. The invaders are foiled by a party of young freedom fighters, including Thompson as Erica Mason.



THE WILD LIFE (1984)

Coming-of-age comedy drama in which Thompson plays Anita, on-off girlfriend of Eric Stoltz's character, Bill. The film also starred Chris Penn, Rick Moranis and Randy Quaid.

SLICING THROUGH TIME

VISUAL EFFECTS

Once the physical DeLorean had been filmed on location, it was up to the effects wizards at ILM to move it through time...

Perhaps surprisingly, there are only 32 optical effects shots in *Back to the Future*. They were handled by Ken Ralston and his team at Industrial Light and Magic, the pioneering visual effects company formed in 1975 by George Lucas to create the effects for *Star Wars*. Ralston had been part of ILM from its inception and had worked on miniatures and opticals for all three *Star Wars* films.



LIKE LIGHTNING: *The DeLorean makes its way through time, thanks to explosive effects work by ILM.*

The effects in *Back to the Future* were a combination of on-set pyrotechnics and animation – the film predated the coming of computer effects by several years. For the first time travel scene, the script described the automobile as 'suddenly engulfed in a blinding white glow – then, BLAM! It's gone, a trail of fire left in its wake.'

LIKE NOTHING YOU'VE SEEN

Robert Zemeckis, whose film work would become a byword for innovation in visual effects, asked ILM for 'something that no one's ever seen before', but didn't offer any clues as to what this something might be. Various concepts were explored, such as the idea (illustrated opposite) that the DeLorean would appear and disappear in slices, each of which would propel the car forwards as it slammed into the next. The time travel effect quickly became known as the 'time-slice'.

Another proposed version of the sequence had the DeLorean expanding like a bag of popcorn in a microwave, with three-dimensional shapes pushing out from the car's bodywork until it exploded. The effect would be easy to realise today using CGI but would have been nightmarishly complicated using models or animation. The time allowed for effects was exceedingly short, as Universal had moved the film's release date forward from mid-August to the Fourth of July holiday weekend. The 'popcorn' idea, conceived by visual effects art director Phil Norwood, was rejected and the job of the time-slice was left in the hands of Wes Takahashi, an animator at ILM.

He sought more advice from Zemeckis, who tried to emphasise the shock that he required the sequence to create. "Robert Zemeckis wanted the time-slice to be extremely violent," he remembers. "He suggested something akin to 'a Neanderthal sitting on the hood of the car chipping away at the fabric of time', followed by an explosion and an implosion." Takahashi realised that for this job, he was going to have his work cut out... ■ TO BE CONTINUED....

BLAMI: *ILM storyboards on the right illustrate an early version of the DeLorean's passage through time.*

> "Robert Zemeckis wanted the time-slice to be extremely violent"
>
> WES TAKAHASHI



1) FIRST PART OF CAR APPEARS... END TOWARDS CAMERA GLOWS BRIGHTLY.



2) SECOND PART OF CAR APPEARS, SLAMS INTO FIRST PART, MOVING IT FORWARDS.



3) THIRD PART OF CAR APPEARS— SLAMS INTO SECOND PART— 1ST AND 2ND PARTS NOW WELDED BACK TOGETHER



4) LAST PART OF CAR APPEARS— SLAMS INTO 3RD PART— 2ND AND 3RD PARTS NOW TOGETHER



5) FINISHED CAR NOW RESUMES THE SPEED IT VANISHED AT... SKIDS TO A STOP—

BEING GEORGE

How versatile young character actor Crispin Glover came to play Marty McFly's disillusioned father, George.



PUT-UPON: *Crispin Glover as 1980s George McFly in the early scenes of* ***Back to the Future.***

Crispin Glover was born in 1964 in New York. He was named after the 'Saint Crispin's Day' speech from Shakespeare's *Henry V*, a favourite play of his parents – actor Bruce Glover (who starred in *Diamonds are Forever* and *Chinatown*) and actress Mary Krachey. Crispin secured his first acting job at the age of 13, and appeared in a number of TV shows including *Hill Street Blues* and *Happy Days.*

Around this time he was approached to star in a sitcom based around him as a central character. He declined, saying later that he was 'uncomfortable' with television. He turned instead to film work and his screen debut came in 1983 in *My Tutor*, followed by a role in the horror film *Friday 13th: The Final Chapter,* and a standout performance as schizophrenic kleptomaniac student Danny in *Teachers* (1984). Glover later described his 1984 self as "a 20-year-old idealist" whose attempts to rail against the system occasionally got him in hot water. Particularly, he recalled how he tried to avoid the studio's publicity junkets in an attempt to preserve the mystique of his craft. "My philosophy was that I would just be a mysterious actor who would play different characters and you'd never see me do anything."

'UNUSUAL AND MEMORABLE'

On 5 September 1984, Glover attended an audition at Amblin for the role of George McFly, the same day that Johnny Depp read for the role of Marty. Bob Gale was impressed by Glover's 'unusual and memorable' take on the character, and like Robert Zemeckis, recognised that, even at the audition, the actor made the part so much his own that it was hard to recall their original concept, described in the script as 'a balding, boring, disappointed man.' Glover added various details of his own to the character, like the older George's bizarre laugh, which caused much hilarity to his co-stars on set. The prosthetic make-up was not extensive, allowing Glover almost a full range of facial expressions, but to add to the ageing effect he was given a pair of heavy, horn-rimmed glasses.

Lea Thompson, who shared many scenes with Glover, is still full of praise for her co-star. "Crispin is brilliant, he really is an amazing actor," she said looking back. "He was just inspired. We worked hard on our characters and approached it with a lot of serious work." ■

MAKING A NAME FOR HIMSELF

With his TV and film work, Glover had quickly established himself as one of Hollywood's hottest young talents.



FRIDAY THE 13TH THE FINAL CHAPTER (1984)

In the fourth installment of the horror franchise, Glover played an awkward teen menaced by masked killer Jason Voorhees at Camp Crystal Lake.



TEACHERS (1984)

This satirical comedy/drama brought Glover to the attention of the Back to the Future *team. A strong ensemble cast included Nock Nolte, Richard Mulligan, JoBeth Williams and Ralph Macchio.*

> "My philosophy was that I would just be a **mysterious actor** who would play different characters."
>
> CRISPIN GLOVER



THE FLUX CAPACITOR

IT MAKES TIME TRAVEL POSSIBLE

Nestling in the futuristic heart of Doc Brown's DeLorean is the most vital component of all...

November 5, 1955 is a red-letter date in the history of science. Why? Because that was the day that Doctor Emmett L. Brown invented time travel. "I remember it vividly," he explains to Marty. "I was standing on the edge of my toilet hanging a clock, the porcelain was wet, I slipped and hit my head on the edge of the sink." Doc passed out, and when he regained consciousness, he had a picture in his head – a picture of a strange Y-shaped component. This, he states, is what makes time travel possible. The flux capacitor! It took Doc almost 30 years and his entire family fortune to realise his vision. He shows Marty his original sketch of the flux capacitor, then the element itself, in the heart of the time machine. When the DeLorean reaches 88 mph, the flux capacitor discharges its stored 1.21 gigawatts of electricity with a blinding flash and time-travel occurs. No wonder there is a warning on the flux capacitor's case to 'shield eyes from light'.

Quite how this remarkable element transports the DeLorean through time, even with the help of some plutonium, remains a mystery – but it works! ■

> "I had a revelation... a picture in my head..."
>
> DOC BROWN



CONCEPT: *Doc Brown's original sketch of the flux capacitor, drawn when he recovered from knocking himself out.*

QUICK FACTS!

EARLY DRAFT

In an earlier script the flux capacitor was called the T.F.C - the Temporal Field Capacitor. The design of the component also went through various permutations.

YOURS TO KEEP

A range of memorabilia has appeared featuring the flux capacitor, including watches, t-shirts, commemorative DVD cases and USB phone chargers.

PLAY IT LOUD

Pennsylvania rock band Flux Capacitor was formed in 2007. Jazz pianist Aaron Diehl has a track entitled *Flux Capacitor* on his 2015 album *Space-Time-Continuum.*

YEAR 3000

In 2002, UK pop band Busted released a single called *Year 3000* with lyrics about a time machine with a flux capacitor "like the one in a film I've seen".

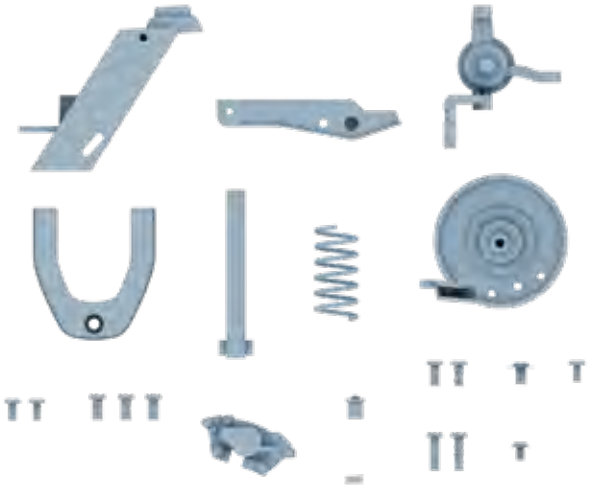
NEXT ISSUE...

SUSPENSION

The right front suspension for your build-up DeLorean project…

In the next issue you'll receive another set of parts for your DeLorean, plus detailed step-by-step instructions telling you how to assemble them.

YOUR CAR PARTS...



THE COMPLETED RIGHT FRONT SUSPENSION





BULLY FOR YOU!

How Thomas J. Wilson became Biff Tannen, the recurring villain of the *Back to the Future* series.

ON LOCATION

Find out everything you needed to know about the filming locations used in the first movie.

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Page 13 *Friday the 13th* poster © Paramount / The Kobal Collection, *Teachers* image © MGM/UA / The Kobal Collection

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