

1

00:00:00,000 --> 00:00:05,000

Remember, do not try anything you are about to see at home.

2

00:00:07,000 --> 00:00:08,000

Oh!

3

00:00:12,000 --> 00:00:14,000

On this episode of Mythbusters,

4

00:00:16,000 --> 00:00:20,000

it's automotive mayhem as the teams smash, are you?

5

00:00:21,000 --> 00:00:24,000

Thrash and bash

6

00:00:26,000 --> 00:00:29,000

through a trio of Hollywood crash cliches.

7

00:00:30,000 --> 00:00:33,000

I think it's truck hunting season at New Mexico Tech.

8

00:00:34,000 --> 00:00:36,000

There's the slapstick slash.

9

00:00:36,000 --> 00:00:37,000

Uh-oh.

10

00:00:39,000 --> 00:00:40,000

Fire.

11

00:00:40,000 --> 00:00:42,000

The Hollywood hop.

12

00:00:46,000 --> 00:00:48,000

And finally, a big rig bar.

13

00:00:49,000 --> 00:00:51,000

Did I ever tell you how much I hate traffic?

14

00:00:52,000 --> 00:00:55,000

So buckle up, because it's gonna be a bumpy ride.

15

00:01:01,000 --> 00:01:03,000

Who are the Mythbusters?

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00:01:04,000 --> 00:01:05,000

Adam Savage

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00:01:05,000 --> 00:01:08,000

Working on these machines is great for my stand.

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00:01:08,000 --> 00:01:09,000

And Jamie Heineman.

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00:01:09,000 --> 00:01:11,000

Those only rose.

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00:01:11,000 --> 00:01:15,000

Between them more than 30 years of special effects experience,

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00:01:16,000 --> 00:01:18,000

together with Carrie Byron.

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00:01:18,000 --> 00:01:19,000

Let's do it.

23

00:01:19,000 --> 00:01:20,000

Tori Balachy

24

00:01:20,000 --> 00:01:21,000

Spin that ride, Buster.

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00:01:22,000 --> 00:01:23,000

And Grant Himahara.

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00:01:23,000 --> 00:01:24,000

Save yourselves.

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00:01:25,000 --> 00:01:27,000

They'll just tell the myths,

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00:01:27,000 --> 00:01:30,000

and they put them to the test.

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00:01:41,000 --> 00:01:42,000

You go to the movies often?

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00:01:42,000 --> 00:01:43,000

No.

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00:01:43,000 --> 00:01:46,000

But you are aware that they get made in a place called Hollywood, right?

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00:01:46,000 --> 00:01:47,000

Sure.

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00:01:47,000 --> 00:01:49,000

Okay, I'll proceed.

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00:01:49,000 --> 00:01:53,000

Hollywood's relationship to physics has provided us with some of our best episodes,

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00:01:53,000 --> 00:01:55,000

and this episode is no exception.

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00:01:55,000 --> 00:01:56,000

How so?

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00:01:56,000 --> 00:02:00,000

Well, we have two stories about cars and how they crash.

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00:02:00,000 --> 00:02:02,000

The first one is kind of an old slapstick routine.

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00:02:04,000 --> 00:02:08,000

Two workmen are carrying the huge pane of glass across the street,

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00:02:08,000 --> 00:02:13,000

and a vehicle driving down that street doesn't see the glass and drives right through it.

41

00:02:14,000 --> 00:02:16,000

Shattering and destroying all the glass,

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00:02:16,000 --> 00:02:19,000

but leaving the workers completely unharmed.

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00:02:19,000 --> 00:02:21,000

You mean they don't bleed?

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00:02:21,000 --> 00:02:22,000

That's right.

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00:02:22,000 --> 00:02:25,000

The two guys carrying the glass are completely unbloody at the end of this.

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00:02:25,000 --> 00:02:27,000

So how do you figure we should test this?

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00:02:27,000 --> 00:02:29,000

Well, I think it's pretty straightforward.

48

00:02:29,000 --> 00:02:31,000

We get several different types of glass.

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00:02:31,000 --> 00:02:34,000

We get workers that can bleed if they've been hit and a car,

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00:02:34,000 --> 00:02:35,000

and we're pretty much ready to go.

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00:02:35,000 --> 00:02:36,000

Sounds good.

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00:02:36,000 --> 00:02:37,000

Let's hit the road.

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00:02:37,000 --> 00:02:39,000

No, you mean let's hit the glass.

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00:02:39,000 --> 00:02:44,000

So to find out if the window fitters would be glazed and confused,

55

00:02:44,000 --> 00:02:46,000

or painfully wounded,

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00:02:46,000 --> 00:02:49,000

first, Adam gets to work on some bleed and workmen.

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00:02:49,000 --> 00:02:51,000

What I need to make is a human analog

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00:02:51,000 --> 00:02:56,000

that can potentially get injured in the way that the glass might hurt the pipey getting slashed.

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00:02:56,000 --> 00:02:58,000

So that's what I'm about to do.

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00:02:58,000 --> 00:03:01,000

Yep, Adam's got a slasher-able surrogate in the pipeline.

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00:03:04,000 --> 00:03:06,000

All that work to put four pieces of pipe back together.

62

00:03:07,000 --> 00:03:11,000

By wrapping a foamy layer of flesh in a plastic skin,

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00:03:11,000 --> 00:03:14,000

Worst duvet cover ever.

64

00:03:15,000 --> 00:03:17,000

Binding it in place,

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00:03:18,000 --> 00:03:22,000

and then giving it a transfusion.

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00:03:27,000 --> 00:03:29,000

It's ready to draw the first blood.

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00:03:29,000 --> 00:03:30,000

That's good.

68

00:03:30,000 --> 00:03:32,000

I'm going to simulate a glass injury now.

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00:03:32,000 --> 00:03:33,000

Here we go.

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00:03:38,000 --> 00:03:43,000

By now, it should be pretty obvious how we intend this human analog to work.

71

00:03:43,000 --> 00:03:46,000

These are going to be placed next to the glass that we're driving through in our car.

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00:03:46,000 --> 00:03:50,000

If any of the glass slices through and causes an injury to our human,

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00:03:50,000 --> 00:03:52,000

we know that's an injury you would have sustained

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00:03:52,000 --> 00:03:54,000

if you were carrying glass when someone drove through it.

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00:03:55,000 --> 00:03:59,000

Adam's plastic wrap design mimics the slasher-ability of human skin.

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00:04:00,000 --> 00:04:03,000

So now they're ready to cut to the chase.

77

00:04:04,000 --> 00:04:06,000

This is a perfect street to make some glass slide.

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00:04:07,000 --> 00:04:10,000

Step one is to set up their window workers.

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00:04:10,000 --> 00:04:12,000

Stand back, we got a bleeder.

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00:04:13,000 --> 00:04:14,000

That's perfect.

81

00:04:16,000 --> 00:04:19,000

With the blood pumped into both pipe people,

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00:04:19,000 --> 00:04:21,000

the first hurdle of the day has been crossed.

83

00:04:21,000 --> 00:04:24,000

That is, no leaks in my bleeders.

84

00:04:25,000 --> 00:04:27,000

They each get a pretty face.

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00:04:28,000 --> 00:04:31,000

And then in rolls the final ingredient.

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00:04:31,000 --> 00:04:33,000

Here comes the glass.

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00:04:33,000 --> 00:04:37,000

But there's more than one type of glass on the back of that truck.

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00:04:37,000 --> 00:04:38,000

For good reason.

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00:04:39,000 --> 00:04:41,000

Clearly, our world is full of glass,

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00:04:41,000 --> 00:04:43,000

but all glass does not break equally.

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00:04:43,000 --> 00:04:46,000

In the world, there are three main types of glass that we encounter.

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00:04:47,000 --> 00:04:49,000

The first one is tempered glass.

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00:04:49,000 --> 00:04:50,000

It's been specially hardened.

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00:04:50,000 --> 00:04:52,000

That also means it's especially brittle.

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00:04:52,000 --> 00:04:54,000

And it breaks into a million little pieces,

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00:04:54,000 --> 00:04:55,000

like the side window in your car.

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00:04:56,000 --> 00:04:58,000

The second type is laminated glass.

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00:04:58,000 --> 00:05:02,000

This is two regular sheets of glass with a gum layer in between.

99

00:05:02,000 --> 00:05:04,000

And when it breaks, it stays together,

100

00:05:04,000 --> 00:05:05,000

like the windshield of your car.

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00:05:06,000 --> 00:05:09,000

The third is regular window glass.

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00:05:09,000 --> 00:05:10,000

There's nothing special about this,

103

00:05:10,000 --> 00:05:12,000

except that it breaks into bigger chunks.

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00:05:14,000 --> 00:05:17,000

Of these three kinds, I have to say,

105

00:05:17,000 --> 00:05:20,000

this one, that doesn't scare me that much.

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00:05:20,000 --> 00:05:22,000

Little pieces, not so much.

107

00:05:22,000 --> 00:05:25,000

These big chunks, they scare the hell out of me.

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00:05:27,000 --> 00:05:28,000

Yep.

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00:05:28,000 --> 00:05:31,000

And it's those scary big chunks that make plate glass

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00:05:31,000 --> 00:05:34,000

the most obvious choice to test first.

111

00:05:35,000 --> 00:05:37,000

There it is.

112

00:05:37,000 --> 00:05:40,000

Plate glass guaranteed destruction.

113

00:05:40,000 --> 00:05:44,000

Because not only does it have serious potential for piercing,

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00:05:44,000 --> 00:05:46,000

it's also the most common.

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00:05:46,000 --> 00:05:48,000

This is basic glass, straightforward glass,

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00:05:48,000 --> 00:05:51,000

except this quarter inch thick piece is 8 feet wide

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00:05:51,000 --> 00:05:56,000

and 6 feet tall, and I believe has the most amount of potential

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00:05:56,000 --> 00:05:59,000

for rendering our glass movers dead.

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00:05:59,000 --> 00:06:02,000

But we've got to drive through it to find out.

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00:06:02,000 --> 00:06:05,000

And while Adam and I are going to be doing this experiment

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00:06:05,000 --> 00:06:07,000

from within the relative safety of the car,

122

00:06:07,000 --> 00:06:09,000

there is a certain element of risk.

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00:06:09,000 --> 00:06:12,000

And so with that in mind, we're going to be wearing helmets.

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00:06:12,000 --> 00:06:15,000

And to make sure no glass penetrates the cab of our car,

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00:06:15,000 --> 00:06:18,000

we've covered and protected our windshield with a nice,

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00:06:18,000 --> 00:06:21,000

fat sheet of quarter inch thick polycarbonate.

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00:06:22,000 --> 00:06:25,000

That's right, because this myth all comes down to the injuries

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00:06:25,000 --> 00:06:27,000

outside the car.

129

00:06:31,000 --> 00:06:33,000

Okay, this is for real.

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00:06:33,000 --> 00:06:36,000

Plate glass at 30 miles an hour.

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00:06:36,000 --> 00:06:39,000

Three, two, one, here we go.

132

00:06:41,000 --> 00:06:43,000

It just took in what we're actually doing.

133

00:06:43,000 --> 00:06:45,000

You're at 30.

134

00:06:45,000 --> 00:06:46,000

I'm at 30, here we go.

135

00:06:46,000 --> 00:06:49,000

I'm in the slot, I'm in the slot.

136

00:06:49,000 --> 00:06:52,000

Ramming speed, here we go.

137

00:06:58,000 --> 00:07:02,000

The guys clearly broke the pain barrier,

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00:07:02,000 --> 00:07:05,000

shattering the glass into thousands of shards.

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00:07:07,000 --> 00:07:11,000

But the question is, how did the foam fillings handle the shatter?

140

00:07:12,000 --> 00:07:14,000

Oh, no!

141

00:07:16,000 --> 00:07:19,000

Oh, dude, we got a gusher.

142

00:07:21,000 --> 00:07:24,000

But then that was his only purpose in life.

143

00:07:24,000 --> 00:07:27,000

Yeah, he bled out pretty quickly, didn't he?

144

00:07:27,000 --> 00:07:29,000

Only one spot, that's all we got?

145

00:07:29,000 --> 00:07:31,000

Only one spot!

146

00:07:31,000 --> 00:07:33,000

This guy's totally fine.

147

00:07:34,000 --> 00:07:37,000

Yep, unlike the slapstick smash cliché,

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00:07:37,000 --> 00:07:41,000

the glass isn't the only thing that's worse for wear after the crash.

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00:07:43,000 --> 00:07:48,000

But what's surprising is that one workman managed to survive without a scratch.

150

00:07:49,000 --> 00:07:53,000

I have to admit, I am kind of shocked by how relatively little damage

151

00:07:53,000 --> 00:07:57,000

our glass movers sustained from the hitting of the plate glass.

152

00:07:57,000 --> 00:07:59,000

Look at these chunks.

153

00:07:59,000 --> 00:08:01,000

These things would take your arm off,

154

00:08:01,000 --> 00:08:06,000

and yet we ended up with one little, one small, and one kind of big glass duration.

155

00:08:06,000 --> 00:08:08,000

I'm surprised.

156

00:08:09,000 --> 00:08:13,000

So there could be an element of truth to the slapstick story.

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00:08:14,000 --> 00:08:20,000

But with two more types of glass to try, this myth isn't in the clear yet.

158

00:08:28,000 --> 00:08:30,000

Next up, it's weapons versus wheels.

159

00:08:32,000 --> 00:08:35,000

Alright, so Hollywood car carnage, I know you got something good.

160

00:08:35,000 --> 00:08:36,000

What is it?

161

00:08:36,000 --> 00:08:39,000

This one is SUV versus RPG.

162

00:08:39,000 --> 00:08:41,000

Okay, now that's a classic.

163

00:08:41,000 --> 00:08:43,000

Yeah, I mean, you've seen this in so many action films,

164

00:08:43,000 --> 00:08:46,000

where a black SUV with tinted windows gets hit with an RPG,

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00:08:46,000 --> 00:08:50,000

but instead of exploding, it actually flips the vehicle.

166

00:08:50,000 --> 00:08:52,000

Dude, that is awesome, I love it.

167

00:08:52,000 --> 00:08:54,000

I thought you would.

168

00:08:56,000 --> 00:08:58,000

It's classic action movie mayhem,

169

00:08:58,000 --> 00:09:02,000

when a bad guy's bazooka takes out the good guy's SUV.

170

00:09:02,000 --> 00:09:05,000

The car spins off its wheels.

171

00:09:05,000 --> 00:09:11,000

But could an RPG really make an SUV defy gravity?

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00:09:12,000 --> 00:09:15,000

Well, I think the plan is pretty straightforward.

173

00:09:15,000 --> 00:09:19,000

We find an SUV, we shoot it with an RPG, and see if it flips like in the movies.

174

00:09:19,000 --> 00:09:22,000

Sounds good to me, but you know what? I got one suggestion.

175

00:09:22,000 --> 00:09:26,000

We shoot two SUVs, one stationary and one in motion,

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00:09:26,000 --> 00:09:28,000

because I've seen it both ways in different movies.

177

00:09:28,000 --> 00:09:30,000

That way, we cover all our bases.

178

00:09:30,000 --> 00:09:32,000

You just want to shoot two RPGs.

179

00:09:32,000 --> 00:09:34,000

Yep, I have no problem with that.

180

00:09:34,000 --> 00:09:35,000

Me neither.

181

00:09:36,000 --> 00:09:39,000

And where better to take this myth for a spin,

182

00:09:39,000 --> 00:09:41,000

than the middle of the desert?

183

00:09:41,000 --> 00:09:43,000

I'm ready to shoot an RPG, how about you guys?

184

00:09:43,000 --> 00:09:47,000

I think it's truck hunting season at New Mexico Tech.

185

00:09:47,000 --> 00:09:49,000

So we're back here at New Mexico Tech.

186

00:09:49,000 --> 00:09:52,000

You know, the school where you can get a degree and blow shit up.

187

00:09:52,000 --> 00:09:55,000

Well, last time we were here, we made an RPG meet a bullet,

188

00:09:55,000 --> 00:09:57,000

and you all remember how that went.

189

00:09:57,000 --> 00:10:02,000

Yep, whenever the mythbusters get to grips with rocket-propelled grenades,

190

00:10:02,000 --> 00:10:04,000

the results are explosive.

191

00:10:06,000 --> 00:10:09,000

So first, they prep their stationary SUV,

192

00:10:09,000 --> 00:10:12,000

with the car ready for the limelight,

193

00:10:12,000 --> 00:10:16,000

it's maneuvered into position, and then the firepower arrives.

194

00:10:16,000 --> 00:10:20,000

What I have inside this box are the actual rocket-propelled grenades.

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00:10:20,000 --> 00:10:24,000

These things are capable of punching a hole through 6-inch thick steel plate.

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00:10:24,000 --> 00:10:28,000

They're actually a shape charge designed to pierce armor.

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00:10:29,000 --> 00:10:31,000

If you remember from our previous episode,

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00:10:31,000 --> 00:10:34,000

this is how an RPG or rocket-propelled grenade works.

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00:10:34,000 --> 00:10:38,000

A primer sets off the launch motor, pushes it out of the tube,

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00:10:38,000 --> 00:10:40,000

acceleration arms the RPG,

201

00:10:40,000 --> 00:10:44,000

and on impact, the piezoelectric switch detonates,

202

00:10:44,000 --> 00:10:47,000

and hopefully flips over an SUV.

203

00:10:48,000 --> 00:10:49,000

Hopefully.

204

00:10:49,000 --> 00:10:53,000

So while Ordinance Tech John Merkel loads the launcher,

205

00:10:53,000 --> 00:10:55,000

the team goes underground.

206

00:10:55,000 --> 00:10:56,000

I love this place.

207

00:10:56,000 --> 00:10:58,000

And waits for the all-clear.

208

00:10:58,000 --> 00:11:03,000

So we've retreated to the bunker because it's way too dangerous for us to be anywhere near Merkel

209

00:11:03,000 --> 00:11:05,000

while he's loading the RPG.

210

00:11:05,000 --> 00:11:08,000

When he's done there, then he's going to come back here,

211

00:11:08,000 --> 00:11:10,000

and we're going to do our test.

212

00:11:10,000 --> 00:11:13,000

And with the grenade locked and loaded, they're ready for the flip.

213

00:11:14,000 --> 00:11:16,000

Okay, here we go.

214

00:11:17,000 --> 00:11:23,000

This is SUV flip with RPG in 3, 2, 1.

215

00:11:29,000 --> 00:11:33,000

Well, it didn't even come close to flipping the SUV.

216

00:11:33,000 --> 00:11:35,000

What did it do? It looked like it kind of blew out the front end.

217

00:11:35,000 --> 00:11:38,000

Yeah, it doesn't look anything like in Hollywood.

218

00:11:38,000 --> 00:11:42,000

It was lights, camera, and action.

219

00:11:42,000 --> 00:11:46,000

But fact fell a long way short of fiction.

220

00:11:47,000 --> 00:11:51,000

Because despite being hit by a rocket-propelled grenade,

221

00:11:51,000 --> 00:11:55,000

there was absolutely no lift-off for the SUV.

222

00:11:58,000 --> 00:12:01,000

Well, that was mighty unimpressive.

223

00:12:01,000 --> 00:12:03,000

That's cool, though. Look at that hole.

224

00:12:03,000 --> 00:12:07,000

But look at that. It just punches a hole. It didn't blow it up and flip it.

225

00:12:07,000 --> 00:12:09,000

So although the RPG shape charge

226

00:12:09,000 --> 00:12:11,000

borrowed all the way into the engine block,

227

00:12:11,000 --> 00:12:14,000

it wasn't enough to match the movie magic.

228

00:12:14,000 --> 00:12:18,000

So the RPG did exactly what it was designed to do,

229

00:12:18,000 --> 00:12:22,000

which is to pierce the car and penetrate into the engine block.

230

00:12:22,000 --> 00:12:27,000

What it didn't do was generate a huge fireball like they do in Hollywood.

231

00:12:27,000 --> 00:12:31,000

And what's more, the car didn't move at all.

232

00:12:31,000 --> 00:12:34,000

It's not looking very good for this myth.

233

00:12:34,000 --> 00:12:36,000

Indeed, so far they are 0 for 1.

234

00:12:36,000 --> 00:12:40,000

But will that change when they give this myth some forward momentum?

235

00:12:45,000 --> 00:12:47,000

Coming up on MythBusters.

236

00:12:47,000 --> 00:12:49,000

Did I ever tell you how much I hate traffic?

237

00:12:49,000 --> 00:12:52,000

Well, now's your chance to even the score.

238

00:13:03,000 --> 00:13:07,000

The MythBusters are testing this slapstick shatter.

239

00:13:07,000 --> 00:13:09,000

Uh-oh.

240

00:13:10,000 --> 00:13:12,000

Did you hear something?

241

00:13:12,000 --> 00:13:13,000

No.

242

00:13:13,000 --> 00:13:18,000

And so far, one workman has been painfully wounded.

243

00:13:18,000 --> 00:13:22,000

Oh, dude, we got a gusher.

244

00:13:22,000 --> 00:13:25,000

But to get all the facts of the shatter,

245

00:13:25,000 --> 00:13:28,000

they're trying some other common types of glass.

246

00:13:29,000 --> 00:13:32,000

The next piece of glass we're going to be driving through in full scale

247

00:13:32,000 --> 00:13:36,000

is laminated glass, referred to in the industry as lamby.

248

00:13:36,000 --> 00:13:40,000

Now remember, this is two panes of regular glass with a layer in between of plastic.

249

00:13:40,000 --> 00:13:43,000

That keeps the whole thing together when you hit it.

250

00:13:43,000 --> 00:13:45,000

Will that happen when we hit it?

251

00:13:45,000 --> 00:13:47,000

That's what we're about to find out.

252

00:13:47,000 --> 00:13:50,000

So this windshield glass is designed not to shatter on impact,

253

00:13:50,000 --> 00:13:52,000

but to stay in one piece.

254

00:13:54,000 --> 00:13:58,000

However, will that mean that the workers get their slapstick happy ending

255

00:13:58,000 --> 00:14:00,000

and remain unharmed?

256

00:14:01,000 --> 00:14:04,000

Well, this time around, the Heinemann is behind the wheel,

257

00:14:04,000 --> 00:14:07,000

and it's time to test this hit and run.

258

00:14:07,000 --> 00:14:13,000

Laminated glass, 30 miles an hour in 3, 2, 1, go!

259

00:14:15,000 --> 00:14:22,000

Jamie puts the pedal to the metal, gets the car up to 30 miles per hour,

260

00:14:22,000 --> 00:14:27,000

thread the needle, baby, and the guys brace for impact.

261

00:14:27,000 --> 00:14:28,000

Here we go!

262

00:14:28,000 --> 00:14:30,000

Oh!

263

00:14:30,000 --> 00:14:33,000

Ha ha ha ha ha ha ha ha ha ha.

264

00:14:33,000 --> 00:14:35,000

I'm okay, are you okay?

265

00:14:35,000 --> 00:14:36,000

I'm totally fine!

266

00:14:38,000 --> 00:14:41,000

This time it was more a fracture than fragment.

267

00:14:42,000 --> 00:14:46,000

But the laminated glass did separate more than expected.

268

00:14:46,000 --> 00:14:49,000

Ah, the laminated glass did not stay together.

269

00:14:50,000 --> 00:14:53,000

It seems like it more or less stayed in what, a dozen pieces.

270

00:14:53,000 --> 00:14:55,000

Also, no blood.

271

00:14:55,000 --> 00:14:57,000

No blood at all!

272

00:14:58,000 --> 00:15:00,000

No blood whatsoever!

273

00:15:00,000 --> 00:15:03,000

That was a bloodless accident.

274

00:15:04,000 --> 00:15:08,000

Yep, on impact the glass cleaved into large chunks,

275

00:15:08,000 --> 00:15:11,000

meaning that the bleeders may have felt pain,

276

00:15:11,000 --> 00:15:14,000

but they remained scratch-free.

277

00:15:14,000 --> 00:15:18,000

I have to say, from inside the car, I was prepared for a much bigger hit

278

00:15:18,000 --> 00:15:20,000

than we ended up actually feeling,

279

00:15:20,000 --> 00:15:24,000

but I did have the distinct impression, once we touched the laminated glass,

280

00:15:24,000 --> 00:15:27,000

that we were driving through it like a tunnel.

281

00:15:27,000 --> 00:15:30,000

And here before me is exactly that story.

282

00:15:30,000 --> 00:15:34,000

Look at this, a car-shaped hole in the glass!

283

00:15:37,000 --> 00:15:41,000

So, after two shatter tests, it's won a piece in the injured worker's stakes.

284

00:15:43,000 --> 00:15:47,000

So now, time for the decider, the tempered glass.

285

00:15:47,000 --> 00:15:51,000

But will the so-called safety glass be the safest yet?

286

00:15:51,000 --> 00:15:53,000

Oh, nice, I'm happy with that.

287

00:15:53,000 --> 00:15:56,000

Adam gives it a spray to make it visible on high speed.

288

00:15:56,000 --> 00:15:59,000

And then it's make or break for the myth.

289

00:15:59,000 --> 00:16:02,000

I have a prediction as to how this is going to go.

290

00:16:02,000 --> 00:16:05,000

I don't think any of those little pieces are actually going to harm our dudes.

291

00:16:05,000 --> 00:16:09,000

I think they're all going to fly forward, and I think our dudes are going to be fine.

292

00:16:10,000 --> 00:16:13,000

That's Adam's theory, but now to test it.

293

00:16:13,000 --> 00:16:15,000

Okay, here we go.

294

00:16:15,000 --> 00:16:21,000

Tempered glass at 30 miles an hour in three, two, one, and go!

295

00:16:21,000 --> 00:16:26,000

Oh, this is awesome.

296

00:16:26,000 --> 00:16:27,000

You're at 30.

297

00:16:27,000 --> 00:16:28,000

I'm at 30.

298

00:16:28,000 --> 00:16:30,000

Oh, it's about to happen!

299

00:16:30,000 --> 00:16:32,000

Yeah!

300

00:16:32,000 --> 00:16:34,000

Wow!

301

00:16:38,000 --> 00:16:42,000

That was awesome, except that I closed my eyes right when it happened.

302

00:16:42,000 --> 00:16:46,000

He may have closed his eyes, but as they race back to the bleeders,

303

00:16:46,000 --> 00:16:48,000

the results are a real eye-opener.

304

00:16:48,000 --> 00:16:50,000

Holy crap, somebody's dead!

305

00:16:50,000 --> 00:16:54,000

Yeah, it's not a very nice place either, is it?

306

00:16:54,000 --> 00:16:56,000

Oh, man!

307

00:16:56,000 --> 00:16:59,000

Wow, look at that!

308

00:16:59,000 --> 00:17:01,000

That's tempered glass.

309

00:17:01,000 --> 00:17:03,000

I thought this was going to be the one that didn't do anything to him,

310

00:17:03,000 --> 00:17:05,000

and this guy is beat up.

311

00:17:05,000 --> 00:17:07,000

And this guy too!

312

00:17:09,000 --> 00:17:12,000

It seems it's the way it shatters that matters.

313

00:17:12,000 --> 00:17:17,000

The tempered glass is designed to break into thousands of tiny pieces on impact.

314

00:17:17,000 --> 00:17:21,000

But because those pieces are flying through the air at 30 miles an hour,

315

00:17:21,000 --> 00:17:26,000

that's more than enough to cause a death by a thousand cuts situation.

316

00:17:26,000 --> 00:17:28,000

The glass did not go forward from the point of impact.

317

00:17:28,000 --> 00:17:32,000

Well, a good portion of it did, but about half of it also went backwards from the point of impact,

318

00:17:32,000 --> 00:17:34,000

like an explosion.

319

00:17:34,000 --> 00:17:36,000

And our two dudes did not escape unscathed.

320

00:17:36,000 --> 00:17:38,000

They had puncturines all up and down their bodies.

321

00:17:38,000 --> 00:17:41,000

I have a whole newfound respect for tempered glass.

322

00:17:41,000 --> 00:17:43,000

A whole newfound respect.

323

00:17:43,000 --> 00:17:46,000

But how does that leave the myth?

324

00:17:46,000 --> 00:17:50,000

So when it comes to shattering glass in slapstick movies, how do we stand?

325

00:17:50,000 --> 00:17:55,000

Well, the idea that the guys moving the glass escape every single time completely unharmed,

326

00:17:55,000 --> 00:17:57,000

I believe that we pretty much...

327

00:17:57,000 --> 00:18:00,000

I believe that we've shattered that myth.

328

00:18:00,000 --> 00:18:02,000

You're a pain.

329

00:18:02,000 --> 00:18:03,000

Let's go.

330

00:18:03,000 --> 00:18:05,000

Oh, hold on a second.

331

00:18:07,000 --> 00:18:08,000

Nice!

332

00:18:10,000 --> 00:18:12,000

Way to make an exit.

333

00:18:16,000 --> 00:18:19,000

This is a video game.

334

00:18:19,000 --> 00:18:21,000

And the video is a video game.

335

00:18:21,000 --> 00:18:23,000

The game is a video game.

336

00:18:23,000 --> 00:18:26,000

The video is a video game.

337

00:18:26,000 --> 00:18:33,000

According to Hollywood, an RPG can flip an SUV clear off its wheels.

338

00:18:33,000 --> 00:18:38,000

But so far, that hasn't been the case.

339

00:18:38,000 --> 00:18:42,000

In test one, the RPG did not flip the SUV.

340

00:18:43,000 --> 00:18:46,000

So in test two, it's going to be moving.

341

00:18:46,000 --> 00:18:50,000

We're going to see if that momentum helps flip the SUV when it gets hit.

342

00:18:50,000 --> 00:18:56,000

Now for this test, it's critically important that the SUV be moving in a straight line

343

00:18:56,000 --> 00:18:59,000

and not connected to anything that might prevent it from flipping.

344

00:18:59,000 --> 00:19:05,000

To keep the SUV going straight, we have a pole in front and a pole in back that rides in this channel.

345

00:19:05,000 --> 00:19:09,000

And then we have the SUV anchored at the top of a hill by a cable.

346

00:19:09,000 --> 00:19:10,000

We're ready to start the test.

347

00:19:10,000 --> 00:19:14,000

We fire a cable cutter that releases it and lets it start to roll.

348

00:19:14,000 --> 00:19:16,000

And gravity does the rest.

349

00:19:16,000 --> 00:19:22,000

When the SUV reaches the end of the track, we'll remotely fire the RPG into the front end

350

00:19:22,000 --> 00:19:24,000

to see if we can flip the vehicle.

351

00:19:24,000 --> 00:19:30,000

And with the SUV poised at the crest of the hill, the team hunker in the bunker once again.

352

00:19:30,000 --> 00:19:32,000

Alright, here we go.

353

00:19:32,000 --> 00:19:36,000

Like last time, the RPG will hit the hood head-on.

354

00:19:36,000 --> 00:19:40,000

But will that flip the SUV off its wheels?

355

00:19:40,000 --> 00:19:45,000

Alright, SUV away in three, two, one, fire.

356

00:19:47,000 --> 00:19:49,000

The SUV is released.

357

00:19:49,000 --> 00:19:51,000

It's picking up speed.

358

00:19:51,000 --> 00:19:55,000

And gravity propels it to its RPG destiny.

359

00:19:58,000 --> 00:20:01,000

Wow, did you see the front end look like it popped up again?

360

00:20:01,000 --> 00:20:04,000

Yeah, it popped up, but that's not a flip.

361

00:20:04,000 --> 00:20:06,000

That means this is busted.

362

00:20:06,000 --> 00:20:08,000

It was so cool, but it's busted.

363

00:20:08,000 --> 00:20:09,000

Totally.

364

00:20:09,000 --> 00:20:11,000

That was a nice shot.

365

00:20:11,000 --> 00:20:13,000

Nice shot.

366

00:20:13,000 --> 00:20:15,000

Still, no flipping cigar.

367

00:20:15,000 --> 00:20:22,000

In fact, the RPG didn't even stop the SUV and the car continued to roll up the bank.

368

00:20:22,000 --> 00:20:24,000

So this myth is busted.

369

00:20:24,000 --> 00:20:28,000

But when you think about it, the job of an RPG is not to flip vehicles.

370

00:20:28,000 --> 00:20:30,000

It's designed to pierce armor.

371

00:20:30,000 --> 00:20:32,000

And that's exactly what it did.

372

00:20:32,000 --> 00:20:36,000

It punched through the condenser, the radiator, all the way into the engine block.

373

00:20:36,000 --> 00:20:38,000

But it did not flip the vehicle.

374

00:20:40,000 --> 00:20:45,000

Yep, there's no doubt that the live action doesn't match the action film.

375

00:20:45,000 --> 00:20:48,000

But that's never deterred the MythBusters before.

376

00:20:49,000 --> 00:20:51,000

This myth is busted, but we're not going to stop here.

377

00:20:51,000 --> 00:20:55,000

No, this is my favorite part of the show where we're going to replicate the results.

378

00:20:55,000 --> 00:20:57,000

It's going to be fun.

379

00:21:01,000 --> 00:21:03,000

The MythBusters

380

00:21:06,000 --> 00:21:10,000

Next up, it's a cinematic solution to traffic jams.

381

00:21:11,000 --> 00:21:13,000

So what's our next crash myth?

382

00:21:13,000 --> 00:21:15,000

Well, it's a common movie trope.

383

00:21:15,000 --> 00:21:18,000

First, I needed a picture, a couple of lines of cars sitting in traffic.

384

00:21:18,000 --> 00:21:23,000

When another character in the movie is driving a giant truck at high speed along city streets

385

00:21:23,000 --> 00:21:26,000

when he approaches these cars standing still, there's not enough space for him to get through.

386

00:21:26,000 --> 00:21:29,000

But no matter, he revs his engine and barrels right up the middle,

387

00:21:29,000 --> 00:21:32,000

sending cars flying really nilly and continuing on his way.

388

00:21:32,000 --> 00:21:36,000

I don't know whether that happened or not, but it sounds like it's going to be fun to test it.

389

00:21:37,000 --> 00:21:41,000

Yep, according to the movies, a tailback is no match for a truck.

390

00:21:42,000 --> 00:21:46,000

But could you really keep on trucking through traffic?

391

00:21:46,000 --> 00:21:49,000

Or is this big rig barge rigged?

392

00:21:49,000 --> 00:21:53,000

Look, I think we get a bunch of cars, put them out on a tarmac, get a giant truck,

393

00:21:53,000 --> 00:21:55,000

and see if we can't plow right through.

394

00:21:55,000 --> 00:21:58,000

And I think I've got just the truck. Awesome.

395

00:21:59,000 --> 00:22:01,000

When it comes to head-on collisions,

396

00:22:04,000 --> 00:22:08,000

this truck has had its fair share of fender benders.

397

00:22:09,000 --> 00:22:13,000

And for J-03, it even became a rocket-proof bunker.

398

00:22:15,000 --> 00:22:20,000

So now it's armored, dangerous, and perfect for ramming into traffic.

399

00:22:21,000 --> 00:22:22,000

Well, almost.

400

00:22:22,000 --> 00:22:26,000

If our dump truck is going to survive pushing through two lines of cars,

401

00:22:26,000 --> 00:22:28,000

it's going to need a super powerful bumper.

402

00:22:28,000 --> 00:22:29,000

Okay.

403

00:22:29,000 --> 00:22:32,000

So we're putting on a much more powerful bumper.

404

00:22:32,000 --> 00:22:37,000

This steel, these tubes, 6 by 8 inches, half-inch thick steel,

405

00:22:37,000 --> 00:22:39,000

they are beefy as...

406

00:22:40,000 --> 00:22:42,000

Every word I was thinking of was a curse.

407

00:22:42,000 --> 00:22:44,000

So they're just beefy.

408

00:22:44,000 --> 00:22:48,000

Yes, to make sure the truck will survive to drive another day,

409

00:22:48,000 --> 00:22:50,000

Jamie finishes bolstering the bumper.

410

00:22:52,000 --> 00:22:54,000

While Adam's playing in traffic.

411

00:22:54,000 --> 00:22:57,000

This gives a whole new meaning to driving a car.

412

00:22:58,000 --> 00:23:00,000

We're going to drive our truck into a couple of lines of cars.

413

00:23:00,000 --> 00:23:04,000

We're going to need, you guessed it, a couple of lines of cars.

414

00:23:06,000 --> 00:23:08,000

Did I ever tell you how much I hate traffic?

415

00:23:08,000 --> 00:23:11,000

Well, now's your chance to even the score.

416

00:23:11,000 --> 00:23:16,000

So with 10 cars in two lines and a dump truck ready to rage,

417

00:23:16,000 --> 00:23:19,000

will there be some fact to the Hollywood fiction?

418

00:23:19,000 --> 00:23:22,000

This truck weighs over 30,000 pounds.

419

00:23:22,000 --> 00:23:26,000

Those 10 cars over there also add up to somewhere over 30,000 pounds.

420

00:23:26,000 --> 00:23:30,000

But the thing is the truck's going to be moving it around 40 miles an hour when it hits them.

421

00:23:30,000 --> 00:23:35,000

So it's going to impart several times its own weight to those cars.

422

00:23:35,000 --> 00:23:38,000

And that means the truck is going to win.

423

00:23:38,000 --> 00:23:42,000

But whether it also means that it's going to be able to move completely through the cars

424

00:23:42,000 --> 00:23:46,000

and keep going like it does in the movies or not, that's another thing.

425

00:23:46,000 --> 00:23:49,000

And that I'm not so sure about.

426

00:23:49,000 --> 00:23:54,000

Well, now to find out by tackling this head-on collision head-on.

427

00:23:54,000 --> 00:23:56,000

All right, here we go.

428

00:23:56,000 --> 00:24:02,000

Flowing through traffic in three, two, one, go.

429

00:24:02,000 --> 00:24:09,000

30,000 pounds of truck heaves into action as Jamie slowly accelerates down the runway.

430

00:24:09,000 --> 00:24:19,000

And once he hits 40 miles an hour, he maintains his speed until...

431

00:24:40,000 --> 00:24:42,000

Wow!

432

00:24:42,000 --> 00:24:45,000

Holy crap!

433

00:24:45,000 --> 00:24:47,000

That lifted up our truck!

434

00:24:47,000 --> 00:24:49,000

We didn't make it through it, though.

435

00:24:49,000 --> 00:24:51,000

We didn't make it through it all.

436

00:24:51,000 --> 00:24:54,000

Wow! That was awesome!

437

00:24:56,000 --> 00:24:59,000

Yep, awesome just about conversing.

438

00:24:59,000 --> 00:25:03,000

As initially, it looked like the truck would make it all the way through the queue.

439

00:25:03,000 --> 00:25:08,000

But eventually, that 10-car pile-up proved too much for the dump truck.

440

00:25:10,000 --> 00:25:16,000

Well, clearly the first two cars we hit were the worst off for this impact,

441

00:25:16,000 --> 00:25:19,000

but all of the cars actually got quite a bit of damage.

442

00:25:19,000 --> 00:25:23,000

This is a pretty impressive amount of impact for all of them.

443

00:25:26,000 --> 00:25:29,000

Let me play out for you what this season's damage actually represents.

444

00:25:29,000 --> 00:25:33,000

These two cars here have skipped forward by two full car lengths.

445

00:25:33,000 --> 00:25:37,000

The van here has skipped forward by one whole time its own length.

446

00:25:37,000 --> 00:25:42,000

That means that the truck stopped at just about where the fourth cars were in line.

447

00:25:42,000 --> 00:25:48,000

So although the truck did a number on the traffic, it failed to ram the entire jam.

448

00:25:49,000 --> 00:25:54,000

Well, if that truck with that bumper on it couldn't do it, they're not doing it.

449

00:25:54,000 --> 00:25:56,000

No, it's totally, totally busted.

450

00:25:56,000 --> 00:26:01,000

However, it does start the wheels to turning though, don't it?

451

00:26:01,000 --> 00:26:03,000

It certainly does.

452

00:26:03,000 --> 00:26:07,000

And, haha, check out how much time is left in this episode.

453

00:26:07,000 --> 00:26:08,000

We're not even close to the end.

454

00:26:08,000 --> 00:26:09,000

Let's get to work.

455

00:26:09,000 --> 00:26:10,000

Alright.

456

00:26:27,000 --> 00:26:28,000

Well, you know what?

457

00:26:28,000 --> 00:26:32,000

I think we owe it to our fans to give them the Hollywood style flip that they want to see.

458

00:26:32,000 --> 00:26:33,000

And he means necessary.

459

00:26:33,000 --> 00:26:34,000

Now that sounds like fun.

460

00:26:34,000 --> 00:26:35,000

I love it.

461

00:26:36,000 --> 00:26:38,000

Now for that, we're going to need three things.

462

00:26:38,000 --> 00:26:42,000

We're going to need some sort of dummy RPG flying towards an SUV.

463

00:26:42,000 --> 00:26:46,000

We're going to need something that explodes and something that flips the SUV.

464

00:26:46,000 --> 00:26:48,000

And that's what we're going to do.

465

00:26:48,000 --> 00:26:54,000

So this nitrogen cannon is going to give us the punch we need to actually do the flipping on the car.

466

00:26:54,000 --> 00:26:58,000

A lot of the weight has been removed here in the engine compartment.

467

00:26:58,000 --> 00:27:00,000

As you can see, there's a distinct lack of engine.

468

00:27:00,000 --> 00:27:05,000

All I have to do is put some supports in here and then mount the cannon.

469

00:27:05,000 --> 00:27:09,000

But despite the lack of engine, bring it in.

470

00:27:09,000 --> 00:27:13,000

It's still a bit of a squeeze to pimp his ride.

471

00:27:13,000 --> 00:27:15,000

Alright, so this is the moment of truth.

472

00:27:15,000 --> 00:27:17,000

The cannon's installed in the car.

473

00:27:17,000 --> 00:27:19,000

Let's see if it still looks like an SUV.

474

00:27:21,000 --> 00:27:22,000

Awesome.

475

00:27:22,000 --> 00:27:23,000

Bring on the RPG.

476

00:27:24,000 --> 00:27:31,000

With the jump in the front, it's out to the range, where the piston is welded to a trench plate.

477

00:27:31,000 --> 00:27:34,000

And the cannon is carefully lowered onto it.

478

00:27:34,000 --> 00:27:36,000

That's a good sign.

479

00:27:36,000 --> 00:27:38,000

Alright, you hit the hole.

480

00:27:38,000 --> 00:27:44,000

So step two of this stunt is a bazooka toting bad guy with his charade grenade.

481

00:27:44,000 --> 00:27:46,000

I know what you're thinking.

482

00:27:46,000 --> 00:27:48,000

How the heck did you guys get a real RPG?

483

00:27:48,000 --> 00:27:50,000

Aren't those illegal in California?

484

00:27:50,000 --> 00:27:52,000

Well, this isn't a real RPG.

485

00:27:52,000 --> 00:27:54,000

I made it back in the shop out of plastic.

486

00:27:54,000 --> 00:27:58,000

But the job here was to get it to fire like an actual RPG for this stunt.

487

00:27:58,000 --> 00:28:01,000

So I've also made this fake grenade launcher.

488

00:28:01,000 --> 00:28:04,000

And the way I'm going to get this to fly is I'm going to use a model rocket.

489

00:28:04,000 --> 00:28:11,000

Now the way we're going to be able to hit our SUV is we're going to have a guideline from our hero into the SUV to start this whole car flip off.

490

00:28:11,000 --> 00:28:18,000

But with only a fake grenade in the chamber, they'll need something extra to create the big screen boom.

491

00:28:18,000 --> 00:28:20,000

Now for our big Hollywood boom.

492

00:28:20,000 --> 00:28:23,000

We don't want the high velocity explosive of C4.

493

00:28:23,000 --> 00:28:25,000

We don't want the pushing power of Anfo.

494

00:28:25,000 --> 00:28:31,000

We're going to use some fuel and get the kind of explosion that gives us a fireball without actually a boom explosion.

495

00:28:31,000 --> 00:28:35,000

It's the final element to recreate this celluloid stunt.

496

00:28:35,000 --> 00:28:37,000

So Grant charges the cannon.

497

00:28:37,000 --> 00:28:39,000

Okay, good to go.

498

00:28:39,000 --> 00:28:44,000

The crew retreats and it's quiet on set as they prepare for launch.

499

00:28:44,000 --> 00:28:46,000

Okay.

500

00:28:46,000 --> 00:28:48,000

This is the big moment.

501

00:28:48,000 --> 00:28:49,000

Okay.

502

00:28:49,000 --> 00:28:56,000

All right, this is Hollywood SUV flip with an RPG in three, two, one, fire.

503

00:28:56,000 --> 00:29:04,000

Tori releases the dummy grenade and then Grant triggers the cannon and boom.

504

00:29:04,000 --> 00:29:06,000

But...

505

00:29:06,000 --> 00:29:07,000

Wait a minute.

506

00:29:07,000 --> 00:29:10,000

That's not how it happens in Hollywood.

507

00:29:10,000 --> 00:29:12,000

What happened?

508

00:29:12,000 --> 00:29:14,000

I don't know.

509

00:29:14,000 --> 00:29:18,000

The stunt went off with a bang, but not the kind they were expecting.

510

00:29:18,000 --> 00:29:20,000

That wasn't a Hollywood ending.

511

00:29:20,000 --> 00:29:22,000

That's more like just a carbacue.

512

00:29:22,000 --> 00:29:24,000

We better call a fire department.

513

00:29:26,000 --> 00:29:34,000

As the firemen douse the wreckage, it's clear that this stunt was a little more classic mythbusters than classic Hollywood.

514

00:29:34,000 --> 00:29:36,000

Now we shot the RPG.

515

00:29:37,000 --> 00:29:44,000

The gas bomb went off, but for some reason the nitrogen piston didn't fire and therefore the car didn't flip.

516

00:29:44,000 --> 00:29:46,000

If this had happened in a Hollywood movie, you would never see it.

517

00:29:46,000 --> 00:29:48,000

It would not make the cut.

518

00:29:48,000 --> 00:29:53,000

But here on Mythbusters, when something goes wrong, it becomes part of our story.

519

00:29:53,000 --> 00:29:57,000

Thank God for us on Mythbusters, failure is always an option.

520

00:29:57,000 --> 00:30:00,000

Next, the team is armed and dangerous.

521

00:30:00,000 --> 00:30:02,000

Don't worry, honey.

522

00:30:02,000 --> 00:30:05,000

I'm not afraid of you. You're practically armless.

523

00:30:06,000 --> 00:30:09,000

But can they finally flip their lid?

524

00:30:09,000 --> 00:30:11,000

Fire!

525

00:30:14,000 --> 00:30:17,000

Never try anything you see on the show at home.

526

00:30:17,000 --> 00:30:20,000

The experiments we do are very dangerous.

527

00:30:20,000 --> 00:30:22,000

And we have experts to keep us safe.

528

00:30:27,000 --> 00:30:32,000

According to the Hollywood Highway Code, a truck could ram through a traffic jam.

529

00:30:33,000 --> 00:30:39,000

But so far, although it's been smashing, this trucking tail is busted.

530

00:30:39,000 --> 00:30:42,000

Wow! We didn't make it through it though!

531

00:30:42,000 --> 00:30:44,000

We didn't make it through at all!

532

00:30:45,000 --> 00:30:49,000

So now the Mythbusters are on a mission to get a truck through traffic.

533

00:30:49,000 --> 00:30:55,000

And to do that, back at the shop, they're taking inspiration from an old school source.

534

00:30:55,000 --> 00:31:00,000

We have a method to do this, that even though it's like 150 years old,

535

00:31:00,000 --> 00:31:02,000

I think it's going to work beautifully.

536

00:31:02,000 --> 00:31:05,000

So we're going to be welding some big chunks of steel.

537

00:31:06,000 --> 00:31:10,000

When locomotives of old needed to get big things out of their way fast,

538

00:31:10,000 --> 00:31:13,000

they used the aptly named cow catcher.

539

00:31:15,000 --> 00:31:20,000

And now the Mythbusters are putting their own slant on history for their retro design.

540

00:31:21,000 --> 00:31:23,000

That goes right through the middle.

541

00:31:23,000 --> 00:31:25,000

First they weld a massive steel frame.

542

00:31:25,000 --> 00:31:27,000

This is going to be a finger buster.

543

00:31:27,000 --> 00:31:30,000

Which then gets dressed in sheets of steel.

544

00:31:30,000 --> 00:31:32,000

We mean business.

545

00:31:32,000 --> 00:31:37,000

But as this steampunk shovel takes shape, just how is it going to work?

546

00:31:38,000 --> 00:31:43,000

What you've got here is six triangular plates attached to a very strong central frame

547

00:31:43,000 --> 00:31:45,000

that's bolted to the bumper of the truck.

548

00:31:45,000 --> 00:31:52,000

Now the idea I have here is that this semi-conical frame will come in low on the cars

549

00:31:52,000 --> 00:31:57,000

and then lift and separate them, allowing us to pass between them the most efficiently

550

00:31:57,000 --> 00:32:00,000

and also be the least likely to slow us down.

551

00:32:01,000 --> 00:32:02,000

This thing's cool, isn't it?

552

00:32:03,000 --> 00:32:05,000

I can't wait to see this thing go.

553

00:32:05,000 --> 00:32:07,000

Lift and separate.

554

00:32:08,000 --> 00:32:14,000

And now that they've completed their design, they're ready to drive a wedge through this myth.

555

00:32:23,000 --> 00:32:28,000

So far in testing our Hollywood style SUV meets RPG myth,

556

00:32:28,000 --> 00:32:32,000

we tried it once Hollywood style and we had a little mishap.

557

00:32:37,000 --> 00:32:40,000

That's not how it happens in Hollywood.

558

00:32:41,000 --> 00:32:46,000

But no worries, we've got a brand new SUV and I've recycled the piston out of the other SUV

559

00:32:46,000 --> 00:32:48,000

and put it into this one.

560

00:32:48,000 --> 00:32:52,000

And hopefully today we will get that Hollywood style stunt.

561

00:32:52,000 --> 00:32:55,000

The new SUV is lowered onto the piston.

562

00:32:56,000 --> 00:32:57,000

Perfect!

563

00:32:58,000 --> 00:33:02,000

Then the boom gets aboard and Carrie arms the shooter.

564

00:33:03,000 --> 00:33:04,000

Don't worry, Arnie.

565

00:33:04,000 --> 00:33:07,000

I'm not afraid of you, you're practically armless.

566

00:33:09,000 --> 00:33:14,000

Grant then primes his cannon and finally Tori wires the fake grenade.

567

00:33:15,000 --> 00:33:19,000

Now just to remind you, this is our bad guy or good guy, depending on which movie you're watching,

568

00:33:19,000 --> 00:33:23,000

he is going to launch the RPG down this guide wire.

569

00:33:24,000 --> 00:33:30,000

And when the RPG hits the grill, we will set off the gas explosion and the air cannon at the exact same time.

570

00:33:30,000 --> 00:33:35,000

So it looks like an exploding flipping SUV from a Hollywood movie.

571

00:33:35,000 --> 00:33:38,000

The scene is set and if everything goes according to plan,

572

00:33:38,000 --> 00:33:40,000

Alright, let's flip this thing.

573

00:33:40,000 --> 00:33:45,000

This time their Hollywood hop should go off without a hitch.

574

00:33:45,000 --> 00:33:46,000

Standing by.

575

00:33:46,000 --> 00:33:47,000

Charging.

576

00:33:49,000 --> 00:33:50,000

Alright, here we go.

577

00:33:50,000 --> 00:33:54,000

This is RPG versus SUV Hollywood flip.

578

00:33:55,000 --> 00:33:59,000

In three, two, one, fire!

579

00:34:08,000 --> 00:34:09,000

Wow!

580

00:34:09,000 --> 00:34:13,000

Now that's what I call doing it Hollywood style.

581

00:34:13,000 --> 00:34:14,000

That was a nice explosion.

582

00:34:14,000 --> 00:34:15,000

Good one.

583

00:34:18,000 --> 00:34:20,000

Yep, everything finally came together.

584

00:34:25,000 --> 00:34:27,000

Let's compare high speeds.

585

00:34:27,000 --> 00:34:30,000

Reality versus Hollywood.

586

00:34:30,000 --> 00:34:35,000

Now in reality, our RPG hits the front of our SUV.

587

00:34:35,000 --> 00:34:40,000

There's a hole and then a little bit of a poof of color.

588

00:34:40,000 --> 00:34:46,000

Now in our Hollywood version, RPG flies towards the SUV.

589

00:34:46,000 --> 00:34:53,000

A beautiful plume of orange and yellow and red explode from the car as it flies through the air.

590

00:34:53,000 --> 00:34:54,000

Reality?

591

00:34:55,000 --> 00:34:57,000

Hollywood, yeah.

592

00:34:58,000 --> 00:35:03,000

Indeed, because this is what you get when you follow that old Hollywood mantra,

593

00:35:03,000 --> 00:35:05,000

Fake it till you make it.

594

00:35:08,000 --> 00:35:10,000

I think the timing was perfect.

595

00:35:10,000 --> 00:35:14,000

Yeah, and it takes all that just to get a Hollywood style ending.

596

00:35:14,000 --> 00:35:16,000

But as far as a real RPG hitting an SUV,

597

00:35:16,000 --> 00:35:19,000

It'll never flip it, not a million years. This one's busted.

598

00:35:19,000 --> 00:35:21,000

That was cool though. Let's watch it again.

599

00:35:27,000 --> 00:35:29,000

Next.

600

00:35:37,000 --> 00:35:42,000

Can you imagine sitting in traffic and looking in your rear view mirror and seeing this thing?

601

00:35:42,000 --> 00:35:48,000

The Duck Bill of Death makes its debut.

602

00:35:49,000 --> 00:35:53,000

Oh, look, I found this camera. Here we go.

603

00:35:53,000 --> 00:35:57,000

Oh, let's try that again.

604

00:35:57,000 --> 00:36:00,000

Oh, here I found this camera.

605

00:36:00,000 --> 00:36:05,000

I am not going to be beaten by this window.

606

00:36:05,000 --> 00:36:07,000

Here we go.

607

00:36:09,000 --> 00:36:13,000

What is this? Is this like a presidential limousine window?

608

00:36:13,000 --> 00:36:15,000

Here we go.

609

00:36:15,000 --> 00:36:20,000

I don't think we got the shot, but I feel better, don't you?

610

00:36:30,000 --> 00:36:35,000

Down at Alameda, the dump truck is getting its car lift and nose job.

611

00:36:35,000 --> 00:36:38,000

Yeah, that's it.

612

00:36:38,000 --> 00:36:44,000

Can you imagine sitting in traffic and looking in your rear view mirror and seeing this thing?

613

00:36:44,000 --> 00:36:46,000

Nice.

614

00:36:46,000 --> 00:36:54,000

And while Jamie completes the rhinoplasty, Adam is lighting up the cars for their Duck Bill of Death.

615

00:36:54,000 --> 00:37:02,000

And for those of you playing at home, they've added another six to put their truck to the ultimate test.

616

00:37:02,000 --> 00:37:04,000

Hey, Adam, I got a present for you.

617

00:37:04,000 --> 00:37:06,000

What do you got?

618

00:37:06,000 --> 00:37:09,000

Nice, fresh tub of lard.

619

00:37:09,000 --> 00:37:12,000

Awesome, a little lubrication to slice through our cars.

620

00:37:12,000 --> 00:37:13,000

Yeah.

621

00:37:13,000 --> 00:37:14,000

Excellent, you got a big brush?

622

00:37:14,000 --> 00:37:15,000

I do.

623

00:37:15,000 --> 00:37:18,000

Jamie and his lard.

624

00:37:18,000 --> 00:37:23,000

Yep, Jamie's love of lube should give their nose that extra edge.

625

00:37:23,000 --> 00:37:26,000

Sometimes a little lubrication makes all the noise.

626

00:37:26,000 --> 00:37:30,000

The truck bill is complete and the cars are on standby.

627

00:37:30,000 --> 00:37:35,000

But before they get this nose on the road, how about a prediction?

628

00:37:35,000 --> 00:37:36,000

Will it make it through?

629

00:37:36,000 --> 00:37:45,000

Well, the real question is, does the kinetic energy of this truck exceed the amount of mass of the

cars sitting on the runway as they're being split apart by this Duck Bill?

630

00:37:45,000 --> 00:37:50,000

And my intuition says, I feel like I'm going to be in a hurry.

631

00:37:51,000 --> 00:37:53,000

But I don't think we'll still be driving by then.

632

00:37:53,000 --> 00:37:55,000

I think we'll be coming to a halt.

633

00:37:55,000 --> 00:37:58,000

All of those cars are going to go flying.

634

00:37:58,000 --> 00:38:00,000

I'm not just talking, pushing them aside.

635

00:38:00,000 --> 00:38:02,000

They're going flying.

636

00:38:02,000 --> 00:38:06,000

Yep, the Duck Bill of Death should lift and separate.

637

00:38:06,000 --> 00:38:07,000

Coming in.

638

00:38:07,000 --> 00:38:11,000

But will it plow through all 16 cars?

639

00:38:11,000 --> 00:38:13,000

All right, you ready?

640

00:38:13,000 --> 00:38:14,000

I'm ready.

641

00:38:14,000 --> 00:38:15,000

All right, I'm ready.

642

00:38:15,000 --> 00:38:18,000

But will it plow through all 16 cars?

643

00:38:18,000 --> 00:38:20,000

All right, you ready?

644

00:38:20,000 --> 00:38:21,000

I'm ready.

645

00:38:21,000 --> 00:38:22,000

Here we go.

646

00:38:22,000 --> 00:38:26,000

Adam gets the duck truck into position, and the countdown begins.

647

00:38:26,000 --> 00:38:29,000

All right, here we go.

648

00:38:29,000 --> 00:38:39,000

The duck bill of death into stationary traffic in three, two, one, go.

649

00:38:39,000 --> 00:38:43,000

Mr. Savage accelerates to 40 miles an hour.

650

00:38:43,000 --> 00:38:46,000

That's second gear.

651

00:38:46,000 --> 00:38:50,000

And keeps his foot wedged until he reaches the cars.

652

00:39:03,000 --> 00:39:05,000

Yeah!

653

00:39:05,000 --> 00:39:07,000

Yeah!

654

00:39:07,000 --> 00:39:09,000

Whoo!

655

00:39:09,000 --> 00:39:11,000

Yeah!

656

00:39:11,000 --> 00:39:13,000

Do it, Tom!

657

00:39:13,000 --> 00:39:15,000

Yeah!

658

00:39:15,000 --> 00:39:16,000

Incredible.

659

00:39:16,000 --> 00:39:20,000

Not only did the truck make it all the way through 16 cars,

660

00:39:20,000 --> 00:39:23,000

Adam and Jamie kept on trucking down the runway,

661

00:39:23,000 --> 00:39:27,000

meaning this attempt won by a nose.

662

00:39:27,000 --> 00:39:31,000

That was amazing!

663

00:39:31,000 --> 00:39:33,000

Holy crap!

664

00:39:33,000 --> 00:39:35,000

That was insane!

665

00:39:35,000 --> 00:39:38,000

Insane is the right word.

666

00:39:41,000 --> 00:39:46,000

It just didn't stop.

667

00:39:46,000 --> 00:39:48,000

It didn't stop.

668

00:39:48,000 --> 00:39:51,000

I kept giving a gas, and it wouldn't stop.

669

00:39:51,000 --> 00:39:53,000

If anything, it was self-centering.

670

00:39:53,000 --> 00:39:55,000

That was the most incredible thing we've ever done.

671

00:39:55,000 --> 00:39:57,000

I've never experienced anything like that.

672

00:39:57,000 --> 00:40:01,000

It was just, they're just kind of like flying.

673

00:40:01,000 --> 00:40:03,000

We could have kept going through 100 cars.

674

00:40:03,000 --> 00:40:05,000

I really feel like we couldn't.

675

00:40:05,000 --> 00:40:07,000

We weren't going that much slower.

676

00:40:07,000 --> 00:40:10,000

We didn't take nearly the impact on that run as we did on the first one.

677

00:40:10,000 --> 00:40:13,000

I think we just solved my traffic problem.

678

00:40:13,000 --> 00:40:16,000

I'm going to put one of these on my car.

679

00:40:16,000 --> 00:40:20,000

Oh my God, the guys are clearly duck-billin'-dilirious.

680

00:40:20,000 --> 00:40:27,000

I'm a little drunk on adrenaline right now.

681

00:40:27,000 --> 00:40:29,000

I believe, even though this car is upright,

682

00:40:29,000 --> 00:40:31,000

and that one too, that they both did a full roll.

683

00:40:31,000 --> 00:40:36,000

As judging from the glass here and all of its contents being on the road,

684

00:40:36,000 --> 00:40:40,000

this is amazing. It's like a triangle of pure destruction.

685

00:40:40,000 --> 00:40:44,000

That experience was almost indescribable.

686

00:40:44,000 --> 00:40:47,000

I mean, it was over in a second,

687

00:40:47,000 --> 00:40:50,000

but these cars are just like, I'm speechless.

688

00:40:50,000 --> 00:40:52,000

They're just kind of going like this.

689

00:40:52,000 --> 00:40:54,000

It worked.

690

00:40:54,000 --> 00:40:56,000

I don't know what else to say.

691

00:40:56,000 --> 00:40:58,000

Here's a cool way to think about what you see here.

692

00:40:58,000 --> 00:41:01,000

Imagine that our dump truck was a boat,

693

00:41:01,000 --> 00:41:04,000

and then these cars are its wake.

694

00:41:04,000 --> 00:41:10,000

That's right, not water, but a wake of 60,000 pounds of steel.

695

00:41:10,000 --> 00:41:12,000

It's kind of poetic.

696

00:41:14,000 --> 00:41:18,000

You know, you think things through, and you engineer something,

697

00:41:18,000 --> 00:41:21,000

and you kind of take your best shot.

698

00:41:21,000 --> 00:41:24,000

I have to say that was one of our best shots

699

00:41:24,000 --> 00:41:27,000

that could not have worked better.

700

00:41:27,000 --> 00:41:30,000

And given the chaos of this sort of situation,

701

00:41:30,000 --> 00:41:33,000

I'm really proud of that. That was cool.

702

00:41:33,000 --> 00:41:40,000

Yes, it truly was something to be proud of.

703

00:41:40,000 --> 00:41:47,000

As the truck cut an epic swath through 60,000 pounds of steel,

704

00:41:51,000 --> 00:41:56,000

in an uplifting ode to the incontrovertible laws of physics.

705

00:41:56,000 --> 00:42:01,000

Well, the myth was busted.

706

00:42:01,000 --> 00:42:04,000

Where do we stand on our method for piling through traffic?

707

00:42:04,000 --> 00:42:06,000

That thing worked so well.

708

00:42:06,000 --> 00:42:09,000

I'm just waiting for somebody to steal it and put it in a movie.

709

00:42:09,000 --> 00:42:13,000

Totally. Remember, kids, you saw it on Mythbusters first.

710

00:42:13,000 --> 00:42:16,000

Did I ever tell you how much I hate traffic?

711

00:42:16,000 --> 00:42:19,000

We have to find an excuse to do that again.

712

00:42:19,000 --> 00:42:21,000

Yeah, that was fun.