

1

00:00:00,000 --> 00:00:07,600

On this episode, the Mythbusters lose total control.

2

00:00:07,600 --> 00:00:08,600

Jamie!

3

00:00:08,600 --> 00:00:14,480

In the quest to pull Volta Khar with its own drive shaft.

4

00:00:14,480 --> 00:00:15,480

Yeah!

5

00:00:15,480 --> 00:00:17,140

And the shocking truth...

6

00:00:17,140 --> 00:00:18,140

Nutri-a-a!

7

00:00:18,140 --> 00:00:20,200

...of Buster's bathroom blaze.

8

00:00:20,200 --> 00:00:22,560

Yeah, okay, now he's fully on fire.

9

00:00:22,560 --> 00:00:25,560

In the mystery of the exploding porta party.

10

00:00:26,560 --> 00:00:30,200

Plus, Adam's childhood secret finally revealed.

11

00:00:30,200 --> 00:00:31,200

Mr. Whipple!

12

00:00:31,200 --> 00:00:34,000

The roof is leaking all over the new shaman!

13

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

Who are the Mythbusters?

14

00:00:36,000 --> 00:00:39,200

Is my missing an eyebrow?

15

00:00:39,200 --> 00:00:40,560

Adam Savage.

16

00:00:40,560 --> 00:00:43,440

I reject your reality and substitute my own.

17

00:00:43,440 --> 00:00:44,960

And Jamie Heineman.

18

00:00:44,960 --> 00:00:45,960

Crack, damn you.

19

00:00:45,960 --> 00:00:48,840

I wouldn't say Jamie's an evil genius.

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00:00:48,840 --> 00:00:52,800

Between them more than 30 years special effects experience.

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00:00:52,800 --> 00:00:54,800

When will the fun ever stop?

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00:00:54,800 --> 00:00:58,800

They don't just tell the Myths, they put them to the test.

23

00:01:09,800 --> 00:01:13,080

Well, we've done an awful lot of car myths on Mythbusters, Jamie.

24

00:01:13,080 --> 00:01:14,960

But this one's actually quite interesting.

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00:01:14,960 --> 00:01:21,040

The idea is that a car going at speed could have its drive shaft fall out, catch in a hole,

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00:01:21,040 --> 00:01:22,560

and actually launch that car.

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00:01:22,560 --> 00:01:25,560

You mean completely get the car here for it, right?

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00:01:25,560 --> 00:01:29,680

Absolutely, actually even end over end.

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00:01:29,680 --> 00:01:31,800

I don't even know where we're going to begin with this one.

30

00:01:31,800 --> 00:01:35,360

Finding a car might be a good start.

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00:01:35,360 --> 00:01:36,360

Now there's a car.

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00:01:36,360 --> 00:01:37,560

Can I start it up?

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00:01:37,560 --> 00:01:38,560

Go for it.

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00:01:38,560 --> 00:01:45,560

The Mythbusters uncovered many stories of drive shaft disasters dating back to the 1960s.

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00:01:45,560 --> 00:01:47,560

Hop in the trunk, Scotty.

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00:01:47,560 --> 00:01:48,560

Yeah.

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00:01:48,560 --> 00:01:51,560

All right, get out of here.

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00:01:51,560 --> 00:01:58,560

And they actually spoke to someone who had pole vaulted a 1967 Plymouth Fury.

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00:01:58,560 --> 00:02:01,560

Jamie, this is a car we could really cruise chicks and suck face in.

40

00:02:01,560 --> 00:02:02,560

Yeah.

41

00:02:02,560 --> 00:02:06,560

Looks like Jamie and Adam have found a fury to call their own.

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00:02:06,560 --> 00:02:07,560

I like this car.

43

00:02:07,560 --> 00:02:09,560

I think we should get it.

44

00:02:09,560 --> 00:02:10,560

And wreck it?

45

00:02:10,560 --> 00:02:14,560

I really don't have a good feeling about destroying this car.

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00:02:14,560 --> 00:02:16,560

There's no sentimentality in science.

47

00:02:16,560 --> 00:02:19,560

I'm just going to have to get used to it.

48

00:02:19,560 --> 00:02:23,560

It's our mission to destroy this car, no matter what.

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00:02:23,560 --> 00:02:26,560

And the fury does fit the bill for the Mythbusters.

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00:02:26,560 --> 00:02:28,560

Personally, I'd rather use this car than anything else.

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00:02:28,560 --> 00:02:35,560

When we did the American graffiti rear axle being pulled out, we used a newer model of

52

00:02:35,560 --> 00:02:40,560

car and we've got a lot of guff for it.

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00:02:40,560 --> 00:02:45,560

And I'd rather not have to deal with that kind of guff and have people think that a myth is unbusted.

54

00:02:45,560 --> 00:02:47,560

It's about the myth.

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00:02:47,560 --> 00:02:48,560

That's the car.

56

00:02:48,560 --> 00:02:49,560

Thank you very much.

57

00:02:49,560 --> 00:02:52,560

You're doing a good deed for science.

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00:02:52,560 --> 00:02:53,560

Well, we've got our car.

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00:02:53,560 --> 00:02:55,560

Now I guess we have to rig the driveshaft.

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00:02:55,560 --> 00:02:56,560

Yeah.

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00:02:56,560 --> 00:03:01,560

And I actually noticed underneath our car, the driveshaft, which isn't represented here,

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00:03:01,560 --> 00:03:05,560

let's say this is it, actually has two universal joints, one right outside the transmission

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00:03:05,560 --> 00:03:07,560

and one right in front of the rear differential.

64

00:03:07,560 --> 00:03:09,560

This is actually perfect for us.

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00:03:09,560 --> 00:03:12,560

The first is the one that would fail right by the transmission.

66

00:03:12,560 --> 00:03:17,560

And the second is the hinge that the driveshaft would ride down on to catch in the pothole.

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00:03:17,560 --> 00:03:21,560

Yeah, well, it looks like the tough part is going to be to figure out how to disengage

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00:03:21,560 --> 00:03:23,560

that front universal joint.

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00:03:23,560 --> 00:03:26,560

They still need the driveshaft to drive the car.

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00:03:26,560 --> 00:03:29,560

Right up to the moment it hits the pothole.

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00:03:29,560 --> 00:03:33,560

That rules out any mechanical device on the spinning shaft.

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00:03:36,560 --> 00:03:41,560

Scotty gets up close and personal with the driveshaft.

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00:03:41,560 --> 00:03:43,560

One driveshaft.

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00:03:43,560 --> 00:03:44,560

Coming up.

75

00:03:44,560 --> 00:03:48,560

For you, one nice greasy part guaranteed to get your shirt dirty.

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00:03:55,560 --> 00:03:58,560

You have a 7,260, which is the small Chrysler.

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00:03:58,560 --> 00:04:02,560

Meet Rick Brown, the big daddy of driveshafts.

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00:04:02,560 --> 00:04:07,560

Rick works in the biggest driveshaft shop in California.

79

00:04:07,560 --> 00:04:08,560

I got to comb my hair.

80

00:04:08,560 --> 00:04:12,560

And he's seen his fair share of failed U-joints.

81

00:04:12,560 --> 00:04:14,560

Like, there's a failure.

82

00:04:14,560 --> 00:04:16,560

There's an on-the-road failure right there.

83

00:04:16,560 --> 00:04:17,560

Okay.

84

00:04:17,560 --> 00:04:24,560

Now, I was thinking, we cut one of these just enough, say,

85

00:04:24,560 --> 00:04:28,560

say we take about 85% of it off.

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00:04:31,560 --> 00:04:36,560

Jamie and Adam are now ready for their favorite experiment, auto wreck madness.

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00:04:43,560 --> 00:04:50,560

But first, it's time to revisit another old friend, the exploding toilet.

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00:04:56,560 --> 00:05:01,560

You guys, you seem to have tracked down an exploding toilet myth.

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00:05:01,560 --> 00:05:04,560

Correct me if I'm wrong, but didn't we already do this last season?

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00:05:04,560 --> 00:05:09,560

This isn't an exploding toilet, like a house toilet.

91

00:05:09,560 --> 00:05:11,560

This is an exploding port-a-potty.

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00:05:11,560 --> 00:05:17,560

And the one that you did before, it was caused by either bug spray or gasoline poured into the toilet.

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00:05:17,560 --> 00:05:18,560

This is totally different.

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00:05:18,560 --> 00:05:25,560

The build team uncovered a story about a man who lit up a cigarette in a port-a-potty in West Virginia.

95

00:05:25,560 --> 00:05:29,560

His lighter ignited a build-up of methane gas,

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00:05:29,560 --> 00:05:31,560

blowing the port-a-potty apart,

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00:05:31,560 --> 00:05:36,560

leaving him with third-degree burns and some unfinished business.

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00:05:36,560 --> 00:05:40,560

We know this happened in West Virginia, but what we don't believe is the explanation

99

00:05:40,560 --> 00:05:44,560

that the methane gas built up from decomposing human waste.

100

00:05:44,560 --> 00:05:46,560

That the explosion was caused by the methane gas.

101

00:05:46,560 --> 00:05:47,560

Exactly.

102

00:05:47,560 --> 00:05:53,560

But Tori and Scotty are keen to see if methane could cause a port-a-potty to blow.

103

00:05:53,560 --> 00:05:56,560

So basically, we're going to pump methane into the toilet.

104

00:05:56,560 --> 00:06:01,560

We're also going to have a blower going through the holding tank in case the methane doesn't go off

105

00:06:01,560 --> 00:06:02,560

so that we can...

106

00:06:02,560 --> 00:06:04,560

You can vent the whole thing and approach it safely.

107

00:06:04,560 --> 00:06:05,560

Exactly.

108

00:06:05,560 --> 00:06:13,560

Now, Adam's had to think about toilets for a long time, ever since his teen TV debut 20 years ago.

109

00:06:13,560 --> 00:06:14,560

We're almost finished.

110

00:06:14,560 --> 00:06:15,560

Looking good, Jimmy.

111

00:06:15,560 --> 00:06:16,560

Oh, Kate.

112

00:06:16,560 --> 00:06:20,560

Mr. Wimple, the roof is leaking all over the new Sharmin'.

113

00:06:20,560 --> 00:06:21,560

Don't worry.

114

00:06:21,560 --> 00:06:22,560

This is the Sharmin'.

115

00:06:22,560 --> 00:06:25,560

Yes, that really is Adam under that mop of red hair.

116

00:06:25,560 --> 00:06:26,560

Yeah?

117

00:06:26,560 --> 00:06:27,560

Yeah.

118

00:06:27,560 --> 00:06:32,560

For a port-a-potty to call their own, the built-in call on potty salesman John French.

119

00:06:32,560 --> 00:06:35,560

Have any of your port-a-potty's ever come back, Lona?

120

00:06:35,560 --> 00:06:36,560

I've never known anybody.

121

00:06:36,560 --> 00:06:40,560

I've been in the business now for going on 30 years.

122

00:06:40,560 --> 00:06:46,560

I know a lot of people across the country and nobody's ever had a toilet.

123

00:06:46,560 --> 00:06:53,560

That blue stuff is only supposed to be scent and coloring, but could it cause an explosive mix?

124

00:06:53,560 --> 00:07:01,560

You can call any of the people up that sell this solution and the salesman will come out and drink it for you.

125

00:07:01,560 --> 00:07:05,560

It can be very harmless.

126

00:07:05,560 --> 00:07:10,560

A test driver too later, Scotty's found herself in a car accident.

127

00:07:10,560 --> 00:07:11,560

Very harmless.

128

00:07:13,560 --> 00:07:18,560

A test driver too later, Scotty's found herself a sporty one-seater.

129

00:07:21,560 --> 00:07:22,560

I like it.

130

00:07:24,560 --> 00:07:28,560

Back at work, Adam's got a very nasty surprise.

131

00:07:28,560 --> 00:07:32,560

Last bodily fluid I have yet to contribute to the show.

132

00:07:32,560 --> 00:07:35,560

I've got poo in a box and I'm not afraid to use it.

133

00:07:35,560 --> 00:07:37,560

Oh, you guys.

134

00:07:37,560 --> 00:07:39,560

I've got it present for you.

135

00:07:40,560 --> 00:07:42,560

Every time you show up, I'm scared.

136

00:07:42,560 --> 00:07:44,560

What are you doing now?

137

00:07:44,560 --> 00:07:46,560

Christmas comes early to Mythbusters.

138

00:07:46,560 --> 00:07:48,560

What I've got here are samples for you.

139

00:07:48,560 --> 00:07:50,560

Oh, I didn't ask Santa Claus for that.

140

00:07:50,560 --> 00:07:56,560

Adam's curious to see if human waste can produce enough methane to create an explosion.

141

00:07:56,560 --> 00:08:00,560

I know you guys wanted to test the methane output of poo.

142

00:08:00,560 --> 00:08:01,560

Not really.

143

00:08:01,560 --> 00:08:06,560

Well, that's your job today and I've got some samples for you.

144

00:08:06,560 --> 00:08:09,560

You will be putting these into the container.

145

00:08:10,560 --> 00:08:12,560

Oh, it smells warm.

146

00:08:13,560 --> 00:08:16,560

Shall we proceed to the part that will get edited out?

147

00:08:16,560 --> 00:08:17,560

I'm not looking.

148

00:08:17,560 --> 00:08:19,560

My question is why you have them on ice?

149

00:08:19,560 --> 00:08:21,560

Are you afraid they're going to go bad?

150

00:08:22,560 --> 00:08:24,560

You guys want to get your respirators and rubber gloves on?

151

00:08:24,560 --> 00:08:25,560

I'm not doing this.

152

00:08:25,560 --> 00:08:27,560

You don't pay me enough.

153

00:08:28,560 --> 00:08:32,560

Carrie just got herself a new job, Biohazard Wrangler.

154

00:08:32,560 --> 00:08:34,560

Don't feel prepared.

155

00:08:34,560 --> 00:08:37,560

All right, 15 grams.

156

00:08:37,560 --> 00:08:38,560

I'm going to throw up in my mask.

157

00:08:38,560 --> 00:08:40,560

No, you're not.

158

00:08:40,560 --> 00:08:42,560

I don't think I'm going to make it.

159

00:08:42,560 --> 00:08:43,560

Okay.

160

00:08:43,560 --> 00:08:45,560

Carrie, I need you to hold that.

161

00:08:45,560 --> 00:08:47,560

Just hold it down here.

162

00:08:47,560 --> 00:08:50,560

This is going to be the straight tap water.

163

00:08:50,560 --> 00:08:53,560

Adam's samples will go into three flasks.

164

00:08:53,560 --> 00:08:57,560

One with water, one with urine, and one with blue toilet liquid,

165

00:08:57,560 --> 00:09:04,560

with a fourth empty for control to see which mix, if any, produces the most methane.

166

00:09:04,560 --> 00:09:07,560

I can't believe I went to college for this.

167

00:09:08,560 --> 00:09:11,560

I'm going to do the first methane test.

168

00:09:11,560 --> 00:09:16,560

The bars right here indicating that there is a very low reading of methane gas.

169

00:09:16,560 --> 00:09:20,560

It's not actually giving us a percentage because it's so low.

170

00:09:20,560 --> 00:09:24,560

The flasks are only showing minute traces of methane.

171

00:09:24,560 --> 00:09:29,560

Carrie will test again in a few days time to see if there's any buildup of gas.

172

00:09:29,560 --> 00:09:32,560

It does seem to be a little bit of a problem.

173

00:09:32,560 --> 00:09:37,560

Carrie will test again in a few days time to see if there's any buildup of gas.

174

00:09:37,560 --> 00:09:42,560

It does seem that Adam is one of the 40% of people that can produce methane.

175

00:09:42,560 --> 00:09:44,560

Lucky for us.

176

00:09:44,560 --> 00:09:49,560

Do we still have that stuff that gets skunk out of the air?

177

00:09:49,560 --> 00:09:53,560

Here's another popular misconception is that methane gas is what creates the odor.

178

00:09:53,560 --> 00:09:59,560

It's the sulfur that's created inside you, which I have to say Adam has quite a bit of.

179

00:10:00,560 --> 00:10:02,560

It's so smelly.

180

00:10:05,560 --> 00:10:10,560

Jamie and Adam are the proud new owners of a 1967 Fury,

181

00:10:10,560 --> 00:10:15,560

the same model car featured in the myth of the driveshaft pole vault.

182

00:10:15,560 --> 00:10:21,560

After weakening the Fury's driveshaft, they need to find a way to break it on cue.

183

00:10:21,560 --> 00:10:24,560

And Jamie's got an idea.

184

00:10:24,560 --> 00:10:28,560

At high speed he's going to throw the gear into neutral,

185

00:10:28,560 --> 00:10:31,560

rev the engine, then jam it back into drive.

186

00:10:31,560 --> 00:10:36,560

The high rev should snap the weakened U-joint and drop the shaft on cue.

187

00:10:38,560 --> 00:10:40,560

And that's not all.

188

00:10:40,560 --> 00:10:43,560

They'll also be driving by remote control.

189

00:10:43,560 --> 00:10:46,560

Do it a little bit, see what it does.

190

00:10:46,560 --> 00:10:51,560

And Jamie and Adam have 4,000 pounds of V8 Fury to tame.

191

00:10:51,560 --> 00:10:56,560

And this one is by far the most advanced rig we've ever installed in a car.

192

00:10:56,560 --> 00:11:02,560

We're not only just controlling the throttle and the brake as we've done most other times,

193

00:11:02,560 --> 00:11:05,560

but we're also controlling the shifter.

194

00:11:05,560 --> 00:11:12,560

And we've got a brand new steering control using some very high-tech servo drivers for the motor.

195

00:11:12,560 --> 00:11:14,560

I can precisely control that.

196

00:11:14,560 --> 00:11:20,560

And that's right here is straight ahead and now we're turning to the right.

197

00:11:20,560 --> 00:11:22,560

So it works perfectly.

198

00:11:22,560 --> 00:11:29,560

Now that Jamie's got the steering under control, Adam's got the tricky task of figuring out the brakes.

199

00:11:29,560 --> 00:11:32,560

It doesn't matter how many times I build this circuit, I always need to draw it out.

200

00:11:32,560 --> 00:11:34,560

It's always really confusing.

201

00:11:34,560 --> 00:11:36,560

That's the brake, isn't that pretty?

202

00:11:38,560 --> 00:11:46,560

It's arguably the most critical part of the whole operation because you have to be able to stop the car.

203

00:11:46,560 --> 00:11:49,560

I mean, that's just critical. That's the emergency thing.

204

00:11:49,560 --> 00:11:56,560

The entire remote control system is set up so that if it fails, if it loses its signal, it automatically depresses the brake.

205

00:11:56,560 --> 00:12:02,560

The hardest part of the remote rig is calibrating four different control systems.

206

00:12:02,560 --> 00:12:06,560

Steering, throttle, brake, and throttle brake.

207

00:12:06,560 --> 00:12:10,560

We have a servo, a custom-made servo that's mounted to the steering wheel.

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00:12:10,560 --> 00:12:15,560

We have another servo that is set up to shift.

209

00:12:15,560 --> 00:12:18,560

We can go forward, reverse, neutral.

210

00:12:18,560 --> 00:12:21,560

We have a third servo, which is on the throttle.

211

00:12:21,560 --> 00:12:27,560

And then lastly, we have an electronic piston that pushes on the brake on cueing.

212

00:12:27,560 --> 00:12:31,560

So it can put the brakes on or off or somewhere in between.

213

00:12:32,560 --> 00:12:35,560

The remote rig has got a big job to do.

214

00:12:35,560 --> 00:12:41,560

From a distance, we have to be able to, say, thread a needle with this car.

215

00:12:41,560 --> 00:12:43,560

Tell me when I'm straight.

216

00:12:43,560 --> 00:12:45,560

Okay, a little more, a little more, more, more, more.

217

00:12:45,560 --> 00:12:47,560

More. Perfect.

218

00:12:47,560 --> 00:12:51,560

Surviving this myth might be a victory in itself.

219

00:13:08,560 --> 00:13:16,560

The test site, an abandoned runway, is perfect for playing with two tons of high-powered Detroit steel.

220

00:13:16,560 --> 00:13:18,560

You couldn't ask for a better spot than this.

221

00:13:18,560 --> 00:13:21,560

We have a white line straight as an arrow.

222

00:13:21,560 --> 00:13:28,560

We've got, like, thousands of feet in all directions that we could lose control of the car without causing any damage.

223

00:13:28,560 --> 00:13:30,560

We should be good.

224

00:13:30,560 --> 00:13:33,560

It's a lovely day. We're going to have some fun.

225

00:13:41,560 --> 00:13:45,560

The only ones not having fun are the pothole diggers.

226

00:13:45,560 --> 00:13:51,560

But Tori wants to brighten up Scotty and Carrie's day with his two-wheeled tricks.

227

00:13:51,560 --> 00:13:54,560

Do you smell that? What's that?

228

00:13:54,560 --> 00:13:56,560

Bad things.

229

00:13:56,560 --> 00:13:58,560

Let's sag him on until he hurts himself.

230

00:13:58,560 --> 00:14:00,560

Yeah, it looks like you cleared it. Go for it.

231

00:14:00,560 --> 00:14:01,560

Does it? No.

232

00:14:01,560 --> 00:14:04,560

Scotty's wish is Tori's command.

233

00:14:04,560 --> 00:14:07,560

You wonder why you always see him getting hurt.

234

00:14:16,560 --> 00:14:19,560

Now, that's a pole vault.

235

00:14:19,560 --> 00:14:24,560

It's so disturbing, let's see it again in slow motion.

236

00:14:24,560 --> 00:14:27,560

But kids, remember, don't try this at home.

237

00:14:27,560 --> 00:14:31,560

Why do I always laugh when you get hurt? That looks so bad.

238

00:14:31,560 --> 00:14:34,560

I can't believe you did that.

239

00:14:34,560 --> 00:14:36,560

I thought I was going to make it.

240

00:14:36,560 --> 00:14:40,560

We're doing a hole in a V to help guide it.

241

00:14:40,560 --> 00:14:47,560

Just like a pole vault, the hole should guide and catch the driveshaft, lifting the car into the air.

242

00:14:47,560 --> 00:14:52,560

This is three feet wide here. I measured four feet from inside to inside on the tires.

243

00:14:52,560 --> 00:15:00,560

And the goal is to actually release it back here about 20 feet to try and do that and then have it slide into the hole.

244

00:15:00,560 --> 00:15:05,560

Oh, okay. So what if the friction of the asphalt just kicks it up before you even get to the hole?

245

00:15:05,560 --> 00:15:09,560

We're prepared for all those things, but here's hoping that it works the first time out.

246

00:15:09,560 --> 00:15:12,560

Yeah, as it rarely does.

247

00:15:22,560 --> 00:15:26,560

I have to say, the jackhammer makes you look really tough. A little red wagon?

248

00:15:26,560 --> 00:15:28,560

Not so much.

249

00:15:30,560 --> 00:15:33,560

Big ass pothole. I wouldn't want to go into that.

250

00:15:33,560 --> 00:15:36,560

Boy, this is a crapshoot, isn't it?

251

00:15:37,560 --> 00:15:41,560

This is one of our biggest crapshoots yet. Yeah, without a doubt.

252

00:15:42,560 --> 00:15:46,560

Despite the odds, our crapshooters are staying relaxed.

253

00:15:47,560 --> 00:15:50,560

I can sit here and watch them do that all day.

254

00:15:50,560 --> 00:15:57,560

It's delivery day for the star of the exploding Porta Potti experiment.

255

00:15:57,560 --> 00:16:02,560

One used Porta Potti for a methane demolition. Sign here.

256

00:16:02,560 --> 00:16:05,560

This one empties? Yeah, I hope so.

257

00:16:08,560 --> 00:16:11,560

Oh, man. Do I have to go to the toilet?

258

00:16:11,560 --> 00:16:13,560

No, I don't.

259

00:16:13,560 --> 00:16:15,560

I'm not going to.

260

00:16:16,560 --> 00:16:22,560

Oh, man. Do I have the best job or what?

261

00:16:25,560 --> 00:16:29,560

The build team want to see if methane can fuel a Porta Potti explosion.

262

00:16:29,560 --> 00:16:33,560

So first, they need a hole to pump the methane gas in.

263

00:16:34,560 --> 00:16:36,560

What is on your forehead?

264

00:16:37,560 --> 00:16:41,560

Is it poop? Oh, there's some crust on the side of your head. I'm not getting it for you.

265

00:16:42,560 --> 00:16:45,560

Oh, right there. Yeah, wipe that off.

266

00:16:46,560 --> 00:16:49,560

A vent hole will help blow the gas out if it doesn't ignite.

267

00:16:50,560 --> 00:16:52,560

Oh, it is nut-prick!

268

00:16:55,560 --> 00:16:58,560

Tori needs an ignition source for the methane.

269

00:16:58,560 --> 00:17:04,560

And what could be better than Adam's lighter rig from the original exploding toilet myth?

270

00:17:05,560 --> 00:17:07,560

See how well it works now?

271

00:17:08,560 --> 00:17:10,560

With my modifications.

272

00:17:12,560 --> 00:17:14,560

There we go.

273

00:17:15,560 --> 00:17:17,560

Tori thinks he can improve on Adam's rig.

274

00:17:17,560 --> 00:17:21,560

And the master has some advice for his lighting apprentice.

275

00:17:21,560 --> 00:17:27,560

Go to a store that sells a bunch of, like, a smoke shop and get five or six different kinds of lighters.

276

00:17:27,560 --> 00:17:30,560

Choose the one we think is most reliable and most available.

277

00:17:31,560 --> 00:17:36,560

Adam is keen for Tori to build a protective casing for the lighter rig.

278

00:17:36,560 --> 00:17:38,560

But something that can handle an explosion.

279

00:17:38,560 --> 00:17:40,560

That way we don't burn Jamie's servo.

280

00:17:40,560 --> 00:17:41,560

We don't burn the servo we don't.

281

00:17:41,560 --> 00:17:42,560

On the lighter.

282

00:17:44,560 --> 00:17:47,560

Oh, God! Somebody's showering today.

283

00:17:48,560 --> 00:17:49,560

In disinfectant.

284

00:17:50,560 --> 00:17:57,560

So after many hours of rethinking and re-figuring, I came up with the new ignition system.

285

00:17:57,560 --> 00:17:59,560

I call it Block O Wood.

286

00:17:59,560 --> 00:18:02,560

It's a little simpler than Adam's. I hope it works.

287

00:18:08,560 --> 00:18:23,560

Yeah! See? Simple can always be better.

288

00:18:24,560 --> 00:18:26,560

Adam just needs to learn that.

289

00:18:27,560 --> 00:18:29,560

You know when I woke up this morning, I thought, what do I really want to do?

290

00:18:29,560 --> 00:18:31,560

I want to test Adam's poo.

291

00:18:32,560 --> 00:18:36,560

Carrie has her second date with Adam's methane producing flasks.

292

00:18:36,560 --> 00:18:41,560

It has a slightly higher reading than control, but it's still not registering.

293

00:18:41,560 --> 00:18:45,560

There's really not a good enough methane gas buildup in here.

294

00:18:46,560 --> 00:18:54,560

With a second low methane reading, it's looking unlikely that human waste caused the methane blast in the West Virginia Portapotty.

295

00:18:55,560 --> 00:18:59,560

They'll use commercial bottled methane gas for the next test.

296

00:19:00,560 --> 00:19:06,560

And at Portapotty Central, there's a lot to get right.

297

00:19:07,560 --> 00:19:10,560

There's myth busters. Of course I'm expecting problems.

298

00:19:12,560 --> 00:19:17,560

The San Francisco Fire Department will deal with any toilet infernos.

299

00:19:17,560 --> 00:19:18,560

Come on, Lazy!

300

00:19:19,560 --> 00:19:23,560

And Scotty and Christine will deal with any grass that needs watering.

301

00:19:24,560 --> 00:19:34,560

The gas will be pumped into the toilet, and it can also be ventilated out from a safety zone 100 feet away.

302

00:19:34,560 --> 00:19:35,560

Go ahead.

303

00:19:35,560 --> 00:19:37,560

Okay, I'm just turning the tank on now.

304

00:19:37,560 --> 00:19:39,560

I'm already getting a reading.

305

00:19:39,560 --> 00:19:45,560

The methane meter will be critical. The gas level has to be between 10 and 15 percent.

306

00:19:45,560 --> 00:19:49,560

70, 80, 90, it's up to 98 percent.

307

00:19:49,560 --> 00:19:53,560

Too much, or too little, won't trigger an explosion.

308

00:19:53,560 --> 00:19:54,560

Maybe we should turn it off.

309

00:19:54,560 --> 00:19:56,560

Yeah, I'm getting a little dizzy.

310

00:19:56,560 --> 00:19:58,560

This is all going way too well.

311

00:19:58,560 --> 00:19:59,560

I know, I'm just...

312

00:19:59,560 --> 00:20:00,560

It's way too smooth.

313

00:20:00,560 --> 00:20:02,560

Let's just enjoy it. Let's not think about it.

314

00:20:03,560 --> 00:20:08,560

If any luck, we'll go off with that a hitch, before we have even lunch.

315

00:20:08,560 --> 00:20:12,560

That's the kind of thing you regret saying on myth busters.

316

00:20:12,560 --> 00:20:17,560

Tori wants to make sure his lighter works before Jamie and Adam arrive.

317

00:20:17,560 --> 00:20:18,560

It's lighting.

318

00:20:18,560 --> 00:20:19,560

Good deal, it worked.

319

00:20:19,560 --> 00:20:20,560

Oh, good.

320

00:20:24,560 --> 00:20:26,560

Oh, you got to lift the lid, dude.

321

00:20:26,560 --> 00:20:28,560

Cleanliness first.

322

00:20:28,560 --> 00:20:35,560

Busters volunteered his behind to seal in the methane gas that Scotty will pump into the waste tank.

323

00:20:35,560 --> 00:20:37,560

It's a thunderbolt.

324

00:20:37,560 --> 00:20:42,560

With the lighter in place, Tori's confident his rig is one up on Adam's.

325

00:20:42,560 --> 00:20:47,560

We improved the ignition system because that other one, well, the other one sucked.

326

00:20:47,560 --> 00:20:48,560

And...

327

00:20:48,560 --> 00:20:54,560

Tori soon realizes his trash talking days may be numbered.

328

00:20:54,560 --> 00:20:58,560

You know that smart Alec remark I made about Adam's rig sucking?

329

00:20:58,560 --> 00:21:01,560

It's going to come back and bite me.

330

00:21:01,560 --> 00:21:02,560

Tank is on.

331

00:21:02,560 --> 00:21:04,560

You guys ready for the gas?

332

00:21:04,560 --> 00:21:10,560

The first test will see if methane pumped into the potty's tank ignites when buster lights up.

333

00:21:12,560 --> 00:21:13,560

Still at zero.

334

00:21:13,560 --> 00:21:16,560

Carrie reads the meter from the remote camera.

335

00:21:16,560 --> 00:21:18,560

Okay, it looks like we're up to 12%.

336

00:21:18,560 --> 00:21:24,560

Adam pulls back the methane hose to a safe distance as Tori hits the igniter.

337

00:21:24,560 --> 00:21:26,560

Is an igniter working?

338

00:21:26,560 --> 00:21:30,560

And we're back down to 1.5%.

339

00:21:30,560 --> 00:21:31,560

No bang.

340

00:21:31,560 --> 00:21:35,560

Those toilet vents seem to be doing their job too well.

341

00:21:35,560 --> 00:21:37,560

All right, so that's pretty much myth busted, though.

342

00:21:37,560 --> 00:21:41,560

Well, you know, I'd like to go make sure your ignition system actually worked.

343

00:21:42,560 --> 00:21:46,560

Tori's lighter isn't the problem.

344

00:21:46,560 --> 00:21:47,560

Oh, okay, good.

345

00:21:47,560 --> 00:21:49,560

So it's big bathroom bang.

346

00:21:49,560 --> 00:21:50,560

Take two.

347

00:21:50,560 --> 00:21:52,560

Initiate the gas.

348

00:21:52,560 --> 00:21:54,560

Okay, tank is on.

349

00:21:54,560 --> 00:21:56,560

Gas is blowing.

350

00:21:56,560 --> 00:21:58,560

I feel it.

351

00:21:58,560 --> 00:22:00,560

Carrie, what do we got?

352

00:22:00,560 --> 00:22:01,560

Zero.

353

00:22:01,560 --> 00:22:06,560

It looks like this baby is just too well designed.

354

00:22:06,560 --> 00:22:10,560

You know, I just think the toilet's doing exactly what it's supposed to do, which is to get rid of any excess methane.

355

00:22:10,560 --> 00:22:13,560

I mean, it's going into the box, it's going out the top.

356

00:22:13,560 --> 00:22:14,560

Let's cut it.

357

00:22:14,560 --> 00:22:17,560

Let's cut it and tape up the vents and see what happens.

358

00:22:18,560 --> 00:22:24,560

This time, they'll block all the vents and fill up the whole porta-potty with gas.

359

00:22:24,560 --> 00:22:31,560

The myth busters seal up all the vents before going for their final porta-potty explosion.

360

00:22:34,560 --> 00:22:39,560

Methane's lighter than air, so we've got our meter set about midpoint in the porta-potty,

361

00:22:39,560 --> 00:22:43,560

which means when we get 15% down there, we'll have a fair amount of methane up top.

362

00:22:43,560 --> 00:22:46,560

I think we're going to get a pretty good explosion this time.

363

00:22:47,560 --> 00:22:49,560

Start the gas.

364

00:22:50,560 --> 00:22:51,560

Okay, gas is blowing.

365

00:22:51,560 --> 00:22:52,560

I hear it.

366

00:22:52,560 --> 00:22:53,560

I hear it.

367

00:22:54,560 --> 00:22:55,560

Oh, here we go.

368

00:22:55,560 --> 00:22:56,560

Two percent.

369

00:22:56,560 --> 00:22:57,560

Two percent.

370

00:22:57,560 --> 00:23:00,560

Sealing the vents has made all the difference.

371

00:23:00,560 --> 00:23:01,560

Oh, bro, it's 20%.

372

00:23:01,560 --> 00:23:03,560

All right, countdown.

373

00:23:03,560 --> 00:23:05,560

Three, two, one.

374

00:23:05,560 --> 00:23:06,560

Firing.

375

00:23:06,560 --> 00:23:07,560

Fireing.

376

00:23:07,560 --> 00:23:09,560

At Houston, we have ignition.

377

00:23:10,560 --> 00:23:11,560

Is it moving?

378

00:23:11,560 --> 00:23:13,560

Oh, there's fire burning.

379

00:23:14,560 --> 00:23:16,560

Oh, yeah, the buster's caught on fire.

380

00:23:16,560 --> 00:23:17,560

Oh, no.

381

00:23:17,560 --> 00:23:18,560

There.

382

00:23:18,560 --> 00:23:19,560

Shall we ventilate?

383

00:23:19,560 --> 00:23:20,560

Oh.

384

00:23:20,560 --> 00:23:23,560

We can ventilate, but it's going to accelerate the bomb fire.

385

00:23:24,560 --> 00:23:25,560

What's your guys' plan?

386

00:23:25,560 --> 00:23:29,560

I'd say accelerate, and then I'll run in there with the fire extinguisher.

387

00:23:29,560 --> 00:23:31,560

Tell me whether it speeds it up.

388

00:23:31,560 --> 00:23:33,560

Oh, yeah, yeah, yeah.

389

00:23:33,560 --> 00:23:34,560

Quick.

390

00:23:34,560 --> 00:23:36,560

Yeah, okay, now he's fully on fire.

391

00:23:36,560 --> 00:23:40,560

Venting has only added more oxygen to Buster's problem.

392

00:23:40,560 --> 00:23:42,560

Don't enter until it's ventilated.

393

00:23:42,560 --> 00:23:43,560

Don't open it.

394

00:23:45,560 --> 00:23:47,560

You have 10% right now.

395

00:23:50,560 --> 00:23:51,560

That's good.

396

00:23:51,560 --> 00:23:53,560

They got a good burn, but no bang.

397

00:23:53,560 --> 00:23:55,560

Well, that was kind of fun.

398

00:23:55,560 --> 00:23:56,560

Poor, poor buster.

399

00:23:58,560 --> 00:24:01,560

From where I was watching, it looked like the toilet paper ignited,

400

00:24:01,560 --> 00:24:03,560

and then it fell and lit his crotch on fire.

401

00:24:04,560 --> 00:24:07,560

And then when we ventilated, it lit him entirely on fire.

402

00:24:07,560 --> 00:24:09,560

It didn't look like a methane explosion.

403

00:24:09,560 --> 00:24:14,560

Well, if the methane didn't go off with that source of ignition, it wasn't gonna.

404

00:24:14,560 --> 00:24:16,560

So, what's the next plan?

405

00:24:16,560 --> 00:24:21,560

The plan is the ignition rig is completely burned up.

406

00:24:21,560 --> 00:24:25,560

So the lighter is completely destroyed.

407

00:24:25,560 --> 00:24:26,560

Really?

408

00:24:26,560 --> 00:24:30,560

Did I cover part of this in some of my advice to you?

409

00:24:30,560 --> 00:24:33,560

I tell myself that I was gonna bite me in the end.

410

00:24:33,560 --> 00:24:34,560

Yeah.

411

00:24:34,560 --> 00:24:39,560

I guess we don't have a plan B because we kind of expected plan A to go off without a hitch.

412

00:24:39,560 --> 00:24:43,560

You should never, ever, ever expect plan A to go off without a hitch.

413

00:24:43,560 --> 00:24:46,560

Well, usually Jamie and I, it's plan D.

414

00:24:46,560 --> 00:24:51,560

Tori's plan B is borrow lighter and bind with duct tape.

415

00:24:51,560 --> 00:24:54,560

I had to rip on Adam's rig, didn't I?

416

00:24:55,560 --> 00:25:01,560

It's time to put the driveshaft pole vault to the test.

417

00:25:01,560 --> 00:25:06,560

It all looked so easy on that piece of blue paper back in the workshop.

418

00:25:06,560 --> 00:25:11,560

This is the MythBusters most complicated remote control rig,

419

00:25:11,560 --> 00:25:15,560

controlling steering, gas, brakes and gears.

420

00:25:15,560 --> 00:25:18,560

There's a lot that can go wrong.

421

00:25:18,560 --> 00:25:20,560

And this thing is touchy.

422

00:25:20,560 --> 00:25:21,560

Really?

423

00:25:21,560 --> 00:25:26,560

Like, you just barely nudge the stick and it's like off to one side or the other.

424

00:25:26,560 --> 00:25:29,560

What do we do if this thing goes out of control?

425

00:25:29,560 --> 00:25:31,560

Go stand behind that forklift.

426

00:25:31,560 --> 00:25:33,560

I'm gonna run near you.

427

00:25:33,560 --> 00:25:34,560

That won't help.

428

00:25:34,560 --> 00:25:35,560

No.

429

00:25:35,560 --> 00:25:38,560

Once again, Jamie has proved right.

430

00:25:45,560 --> 00:25:48,560

As the car turns on its makers.

431

00:25:48,560 --> 00:25:51,560

That'll get you a drill in running.

432

00:25:51,560 --> 00:25:56,560

We should identify a safe area and that would be like go for the forklift.

433

00:25:56,560 --> 00:26:01,560

If you see the car doing something weird, you know, get over there.

434

00:26:01,560 --> 00:26:02,560

Seriously.

435

00:26:02,560 --> 00:26:05,560

It's a big heavy duty machine.

436

00:26:05,560 --> 00:26:06,560

It could kill you.

437

00:26:06,560 --> 00:26:07,560

Let me get in it.

438

00:26:07,560 --> 00:26:13,560

The words heavy duty killing machine have a strange attraction for Adam.

439

00:26:13,560 --> 00:26:16,560

I'm ready when you are, Jamie.

440

00:26:16,560 --> 00:26:19,560

He opts for a rear window seat.

441

00:26:26,560 --> 00:26:28,560

Adam's got absolutely no control.

442

00:26:28,560 --> 00:26:30,560

But then neither does Jamie.

443

00:26:30,560 --> 00:26:31,560

Oh my God.

444

00:26:37,560 --> 00:26:38,560

Jamie!

445

00:26:47,560 --> 00:26:49,560

I'm okay!

446

00:26:49,560 --> 00:26:51,560

Dude, Adam's breaking on purpose.

447

00:26:51,560 --> 00:26:53,560

Are they fighting?

448

00:26:53,560 --> 00:26:55,560

What the hell was that?

449

00:26:55,560 --> 00:26:57,560

I'm really sorry about that.

450

00:26:57,560 --> 00:26:58,560

I don't know why.

451

00:26:58,560 --> 00:26:59,560

You know, it's like.

452

00:26:59,560 --> 00:27:00,560

That was thrilling.

453

00:27:00,560 --> 00:27:01,560

I have to say.

454

00:27:01,560 --> 00:27:04,560

Did you shut it off or did it shut itself off?

455

00:27:04,560 --> 00:27:05,560

It shut itself off.

456

00:27:05,560 --> 00:27:06,560

Okay.

457

00:27:06,560 --> 00:27:08,560

This is right where Adam started swearing and screaming.

458

00:27:08,560 --> 00:27:09,560

That was thrilling.

459

00:27:09,560 --> 00:27:10,560

No, really.

460

00:27:10,560 --> 00:27:13,560

Really, I was just like, hey look, I'm going towards the fence.

461

00:27:13,560 --> 00:27:17,560

The brake fail saved stop the car when it lost the signal.

462

00:27:17,560 --> 00:27:20,560

Otherwise, Adam would be on the interstate by now.

463

00:27:20,560 --> 00:27:22,560

Does anybody else want to go for a ride?

464

00:27:24,560 --> 00:27:26,560

Yeah, you put it right on that pole.

465

00:27:26,560 --> 00:27:28,560

Is it there, Tim?

466

00:27:28,560 --> 00:27:30,560

They'll never know.

467

00:27:30,560 --> 00:27:32,560

He's trying to be sneaky.

468

00:27:38,560 --> 00:27:41,560

Jamie has learned one new trick.

469

00:27:41,560 --> 00:27:43,560

The car goes in reverse.

470

00:27:43,560 --> 00:27:47,560

It's a brand new development in RC cars from in Buster's.

471

00:27:49,560 --> 00:27:52,560

The biggest toy in the world.

472

00:27:53,560 --> 00:27:55,560

And car also goes out of control.

473

00:27:55,560 --> 00:27:58,560

That's not a new development.

474

00:27:58,560 --> 00:28:00,560

Car's gone.

475

00:28:00,560 --> 00:28:02,560

No!

476

00:28:02,560 --> 00:28:04,560

Stop!

477

00:28:04,560 --> 00:28:05,560

Jamie, hop in.

478

00:28:05,560 --> 00:28:09,560

The fury is headed for a swan dive into the bay.

479

00:28:11,560 --> 00:28:13,560

What happened?

480

00:28:13,560 --> 00:28:18,560

I think what happened was that it took off before I had all of the switches on.

481

00:28:18,560 --> 00:28:21,560

You only had a couple hundred more feet and we were in the drink.

482

00:28:21,560 --> 00:28:25,560

I think what happened this last time was just plain old human error.

483

00:28:25,560 --> 00:28:27,560

Namely me.

484

00:28:27,560 --> 00:28:32,560

Jamie's realized this job is too much for one mere myth buster.

485

00:28:32,560 --> 00:28:35,560

He needs another pair of hands on the remote.

486

00:28:35,560 --> 00:28:39,560

With the new car, he's going to be able to get a little bit of a ride.

487

00:28:40,560 --> 00:28:48,560

With Scotty driving them in the pickup, Jamie can concentrate on the steering, throttle and brakes, while Adam takes over the shifter.

488

00:28:48,560 --> 00:28:51,560

This is pure dumb luck, you know, if it works.

489

00:28:51,560 --> 00:28:54,560

And that's why I wanted to add them on it.

490

00:28:58,560 --> 00:29:00,560

Everybody's ready.

491

00:29:00,560 --> 00:29:02,560

Be gentle, Scotty.

492

00:29:02,560 --> 00:29:05,560

They want to hit the hole at 35 miles per hour.

493

00:29:05,560 --> 00:29:11,560

Scotty plays catch up in the pickup, calling out the speed as Jamie gasses the fury.

494

00:29:11,560 --> 00:29:13,560

25.

495

00:29:14,560 --> 00:29:15,560

35.

496

00:29:15,560 --> 00:29:16,560

I'm thinking.

497

00:29:16,560 --> 00:29:17,560

Don't talk to me.

498

00:29:17,560 --> 00:29:18,560

Sorry.

499

00:29:22,560 --> 00:29:24,560

The new division of labor is working.

500

00:29:24,560 --> 00:29:31,560

After hitting the pothole twice at the right speed, it's time to swap over to the weakened driveshaft.

501

00:29:32,560 --> 00:29:36,560

And go for the driveshaft pole vault for real.

502

00:29:36,560 --> 00:29:45,560

Well, this is going pretty much like any myth buster shoot we've spent most of the day and a good portion of the afternoon just tricking out the mechanics of our remote controlled car.

503

00:29:45,560 --> 00:29:47,560

Now the easiest part is done.

504

00:29:47,560 --> 00:29:52,560

We're facing the hard part, which is actually getting the damn driveshaft into the pothole.

505

00:29:52,560 --> 00:29:56,560

And who knows whether that one's going to work or not.

506

00:29:56,560 --> 00:30:01,560

Stay clear of the car.

507

00:30:01,560 --> 00:30:06,560

Stay clear of the probably out of control car.

508

00:30:06,560 --> 00:30:11,560

Out of control car is Adam's way of saying ready to go.

509

00:30:13,560 --> 00:30:14,560

We're ready.

510

00:30:16,560 --> 00:30:17,560

Slower.

511

00:30:19,560 --> 00:30:20,560

15.

512

00:30:22,560 --> 00:30:23,560

20.

513

00:30:24,560 --> 00:30:26,560

That's a good distance.

514

00:30:26,560 --> 00:30:27,560

Catch up with it.

515

00:30:27,560 --> 00:30:28,560

25.

516

00:30:33,560 --> 00:30:37,560

The first run is on target, but the driveshaft didn't drive.

517

00:30:37,560 --> 00:30:38,560

Brakes are on.

518

00:30:38,560 --> 00:30:40,560

Something didn't work quite right.

519

00:30:40,560 --> 00:30:44,560

And I saw some tire skids and it wasn't from brakes.

520

00:30:44,560 --> 00:30:45,560

No, it wasn't.

521

00:30:45,560 --> 00:30:46,560

That was from reverse.

522

00:30:46,560 --> 00:30:47,560

Okay.

523

00:30:47,560 --> 00:30:49,560

Well, you know what that means.

524

00:30:49,560 --> 00:30:51,560

Yes, it means that our driveshaft is too strong.

525

00:30:51,560 --> 00:30:52,560

Yes.

526

00:30:52,560 --> 00:30:54,560

So let's get this car back to position one.

527

00:30:54,560 --> 00:30:56,560

Let's further weaken the driveshaft.

528

00:30:56,560 --> 00:30:57,560

Yeah.

529

00:30:57,560 --> 00:31:00,560

Adam's accidentally had a reverse gear revelation.

530

00:31:00,560 --> 00:31:06,560

Basically, when I jammed the car into neutral, I accidentally left it in reverse and the

531

00:31:06,560 --> 00:31:11,560

tires screeched, which told us an important fact, which is you can jam this car into reverse

532

00:31:11,560 --> 00:31:16,560

at speed, which is actually an ideal way to put so much tension on the driveshaft that

533

00:31:16,560 --> 00:31:17,560

we'll crack it.

534

00:31:17,560 --> 00:31:18,560

That's pretty weak.

535

00:31:18,560 --> 00:31:21,560

I mean, that's as weak as I can make it while it's still on the car.

536

00:31:21,560 --> 00:31:22,560

Okay.

537

00:31:22,560 --> 00:31:23,560

All right.

538

00:31:23,560 --> 00:31:25,560

Are you ready?

539

00:31:25,560 --> 00:31:29,560

Adam's got his fingers crossed the shaft will snap this time around.

540

00:31:29,560 --> 00:31:30,560

Ah!

541

00:31:30,560 --> 00:31:33,560

Pity he left those same fingers in Scotty's door.

542

00:31:33,560 --> 00:31:34,560

No, it's not your fault.

543

00:31:34,560 --> 00:31:35,560

I'm sorry.

544

00:31:35,560 --> 00:31:37,560

Okay, let's go.

545

00:31:37,560 --> 00:31:38,560

Okay, all clear.

546

00:31:38,560 --> 00:31:39,560

Door closing.

547

00:31:39,560 --> 00:31:40,560

Door closing.

548

00:31:40,560 --> 00:31:41,560

25.

549

00:31:41,560 --> 00:31:46,560

The fury is traveling straight and true.

550

00:31:46,560 --> 00:31:47,560

30.

551

00:31:47,560 --> 00:31:50,560

Back to neutral.

552

00:31:51,560 --> 00:31:54,560

But the driveshaft still won't budge.

553

00:31:54,560 --> 00:31:55,560

Good timing though.

554

00:31:55,560 --> 00:31:58,560

I think ever we were spot on, the speed was good.

555

00:31:58,560 --> 00:32:00,560

The speed was perfect and our timing was great.

556

00:32:00,560 --> 00:32:03,560

So we need to pull it out quickly and weaken it further.

557

00:32:03,560 --> 00:32:04,560

Okay.

558

00:32:04,560 --> 00:32:05,560

Driving it back.

559

00:32:05,560 --> 00:32:08,560

Okay, back to zero.

560

00:32:08,560 --> 00:32:12,560

This U-joint is proving to be one tough ombre.

561

00:32:12,560 --> 00:32:14,560

It's handling an awful lot so far.

562

00:32:14,560 --> 00:32:17,560

I don't want to do this again.

563

00:32:17,560 --> 00:32:21,560

It's not recommended to do this to your own driveshaft.

564

00:32:21,560 --> 00:32:28,560

It's becoming clear that snapping the driveshaft relies more on dumb luck than cutting-edge

565

00:32:28,560 --> 00:32:29,560

science.

566

00:32:29,560 --> 00:32:32,560

It's very little actually holding that universal joint together.

567

00:32:32,560 --> 00:32:35,560

It's starting to look like Swiss cheese now or something.

568

00:32:35,560 --> 00:32:36,560

Yeah, it is.

569

00:32:36,560 --> 00:32:38,560

It's really looking air-rating.

570

00:32:38,560 --> 00:32:43,560

One Swiss cheese driveshaft ready to go.

571

00:32:43,560 --> 00:32:46,560

All right, let's go.

572

00:32:47,560 --> 00:32:49,560

Hold on, car died.

573

00:32:49,560 --> 00:32:52,560

The Plymouth Fury hasn't even left the starting line.

574

00:32:52,560 --> 00:32:53,560

Oh, man.

575

00:32:53,560 --> 00:32:56,560

Oh, well, the second we went to start up the car, the yoke just failed.

576

00:32:56,560 --> 00:32:58,560

I mean, we can't do too much.

577

00:32:58,560 --> 00:33:02,560

They've got spare U-joints, but not much spare time.

578

00:33:02,560 --> 00:33:09,560

Adam, do you think it might be just easier to pull the driveshaft and weld it out here?

579

00:33:09,560 --> 00:33:12,560

Yeah, I would take that as a yes.

580

00:33:12,560 --> 00:33:15,560

Go.

581

00:33:24,560 --> 00:33:26,560

Alright.

582

00:33:26,560 --> 00:33:28,560

Quick reset.

583

00:33:28,560 --> 00:33:30,560

Quick reset.

584

00:33:34,560 --> 00:33:36,560

Too much or too little.

585

00:33:36,560 --> 00:33:37,560

Wind up.

586

00:33:37,560 --> 00:33:38,560

Next one.

587

00:33:38,560 --> 00:33:39,560

Bit buster.

588

00:33:40,560 --> 00:33:43,560

They're very much holding that thing in place, I'll tell you.

589

00:33:44,560 --> 00:33:46,560

25.

590

00:33:46,560 --> 00:33:47,560

Get it in.

591

00:33:47,560 --> 00:33:48,560

Get it in.

592

00:33:48,560 --> 00:33:50,560

And 30.

593

00:33:52,560 --> 00:33:56,560

One more run and one more missed pothole.

594

00:33:56,560 --> 00:33:58,560

We got time for one more reset.

595

00:33:58,560 --> 00:34:00,560

I see three more inches of sun.

596

00:34:00,560 --> 00:34:01,560

We got 20 minutes.

597

00:34:01,560 --> 00:34:07,560

With a batting average of zero, are the mythbusters about to strike out?

598

00:34:07,560 --> 00:34:10,560

Come on, please make this happen.

599

00:34:10,560 --> 00:34:12,560

20.

600

00:34:15,560 --> 00:34:16,560

25.

601

00:34:16,560 --> 00:34:18,560

30.

602

00:34:25,560 --> 00:34:27,560

I think we're cooked for today.

603

00:34:27,560 --> 00:34:29,560

I think we're cooked for today.

604

00:34:29,560 --> 00:34:30,560

It's a skillet.

605

00:34:30,560 --> 00:34:32,560

Ow.

606

00:34:33,560 --> 00:34:34,560

Sorry.

607

00:34:34,560 --> 00:34:38,560

The definition of fury is violent, intense anger.

608

00:34:38,560 --> 00:34:41,560

And Adam's feeling the fury right now.

609

00:34:43,560 --> 00:34:45,560

You want to shoot some more?

610

00:34:45,560 --> 00:34:46,560

I think we're all done.

611

00:34:46,560 --> 00:34:48,560

I think that's it for today.

612

00:34:49,560 --> 00:34:52,560

The mythbusters are done for today, but not beaten.

613

00:34:52,560 --> 00:34:53,560

I want to come back.

614

00:34:53,560 --> 00:34:55,560

I'm dying to come back.

615

00:34:55,560 --> 00:34:59,560

I can't let this story air with us having been busted.

616

00:35:02,560 --> 00:35:03,560

Here goes the gas.

617

00:35:03,560 --> 00:35:09,560

It's been a typical mythbuster day, testing the exploding porta-potty myth.

618

00:35:09,560 --> 00:35:12,560

First, the methane gas failed to ignite.

619

00:35:12,560 --> 00:35:14,560

Skillet zero.

620

00:35:14,560 --> 00:35:18,560

Then, buster caught on fire and destroyed the lighter rig.

621

00:35:18,560 --> 00:35:22,560

Adam's still full of that good old mythbuster optimism.

622

00:35:22,560 --> 00:35:27,560

I'm really looking forward to test number three, where we actually put the meter on the bottom,

623

00:35:27,560 --> 00:35:32,560

build up methane in the entire porta-potty, and then I hope we watch porta-potty pieces.

624

00:35:33,560 --> 00:35:35,560

And then we'll shoot out into the bed.

625

00:35:35,560 --> 00:35:40,560

The lighter-than-air methane will fill up the whole potty before it reaches the meter.

626

00:35:41,560 --> 00:35:44,560

Let's go for the money show.

627

00:35:46,560 --> 00:35:47,560

Alright.

628

00:35:47,560 --> 00:35:49,560

Tank is on. Ready for gas?

629

00:35:49,560 --> 00:35:53,560

The methane level has to be between 10 and 15% to ignite.

630

00:35:53,560 --> 00:35:55,560

Oh, I hear it.

631

00:35:56,560 --> 00:35:57,560

1.9, 2%.

632

00:35:57,560 --> 00:35:59,560

Got a little paper hanging above this thing.

633

00:35:59,560 --> 00:36:01,560

It's gonna ignite.

634

00:36:01,560 --> 00:36:03,560

Your guess is as good as mine.

635

00:36:03,560 --> 00:36:07,560

Carrie reads the methane meter on potty cam.

636

00:36:07,560 --> 00:36:09,560

We're working, we're working, we're working with toys.

637

00:36:09,560 --> 00:36:13,560

And three, two, one, go.

638

00:36:13,560 --> 00:36:15,560

Firing.

639

00:36:15,560 --> 00:36:17,560

Is it igniting the toilet paper?

640

00:36:17,560 --> 00:36:20,560

No, the toilet paper is not igniting.

641

00:36:20,560 --> 00:36:21,560

Oh, Tor.

642

00:36:21,560 --> 00:36:25,560

Both Tori and his lighter seem to have lost their spark.

643

00:36:25,560 --> 00:36:28,560

Yeah, I want to see the sadness in his eyes.

644

00:36:28,560 --> 00:36:32,560

There's a toilet paper that's dangling next to it. It's not catching.

645

00:36:32,560 --> 00:36:33,560

I'm gonna stick it right in front.

646

00:36:33,560 --> 00:36:35,560

Hold on. Evacuate it first for two minutes. Okay?

647

00:36:35,560 --> 00:36:37,560

We're down to 8% gas.

648

00:36:37,560 --> 00:36:42,560

That's fine. We're going to evacuate the tank and reset the lighter for a second.

649

00:36:42,560 --> 00:36:45,560

Alright, two minutes from now we'll go in.

650

00:36:46,560 --> 00:36:49,560

Maybe it's a myth that methane is flammable.

651

00:36:49,560 --> 00:36:52,560

It's not a myth. We're just idiots.

652

00:36:53,560 --> 00:36:57,560

This is the point in the day which we've come to many times where we start to go,

653

00:36:57,560 --> 00:37:01,560

what else to be at that's flammable in the truck?

654

00:37:01,560 --> 00:37:04,560

The firemen have something flammable in their truck.

655

00:37:04,560 --> 00:37:09,560

Add a new plan. First, light flare, then add gas.

656

00:37:09,560 --> 00:37:14,560

We're going to put a flare in there burning and slowly elevate the gas until it finally does explode

657

00:37:14,560 --> 00:37:20,560

because we're getting really, really impatient with all of this anticlimactic stuff.

658

00:37:23,560 --> 00:37:26,560

Come on, come on, come on, let's go!

659

00:37:28,560 --> 00:37:30,560

Start the gas.

660

00:37:30,560 --> 00:37:32,560

Gladly.

661

00:37:32,560 --> 00:37:34,560

And seven.

662

00:37:34,560 --> 00:37:36,560

Point eight. Point nine.

663

00:37:36,560 --> 00:37:38,560

Fire.

664

00:37:38,560 --> 00:37:40,560

Yeah!

665

00:37:40,560 --> 00:37:42,560

Yeah!

666

00:37:43,560 --> 00:37:46,560

The first flash of success.

667

00:37:46,560 --> 00:37:49,560

Thank you, San Francisco Fire Department.

668

00:37:52,560 --> 00:37:55,560

You look pretty bad to start with. I don't think you look so bad now.

669

00:37:55,560 --> 00:37:58,560

I think the urinal got it worse.

670

00:37:58,560 --> 00:38:00,560

Well, are you guys satisfied with that?

671

00:38:00,560 --> 00:38:02,560

That was cool.

672

00:38:02,560 --> 00:38:03,560

You want to do it again?

673

00:38:03,560 --> 00:38:04,560

Yeah, let's do it again!

674

00:38:04,560 --> 00:38:10,560

Surprisingly, the meter was at just 0.9% when the methane ignited.

675

00:38:10,560 --> 00:38:14,560

Adam believes its position has been the problem all along.

676

00:38:14,560 --> 00:38:21,560

What it's highly likely is that 0.9% on the bottom equals an overall density of about 15%.

677

00:38:21,560 --> 00:38:29,560

That's the problem we were having. When we were reading 15 down there, it was so rich that there was nothing for the lighter to actually ignite with.

678

00:38:29,560 --> 00:38:30,560

There was no oxygen.

679

00:38:30,560 --> 00:38:35,560

For the final test, there's no meter and no fancy ignition rig.

680

00:38:35,560 --> 00:38:43,560

We tried to make all these complex rigs to ignite and it boils down to simple. Simple is better.

681

00:38:43,560 --> 00:38:46,560

There's no more meters, so we'll just count down.

682

00:38:46,560 --> 00:38:49,560

Alright, initiate the gas.

683

00:38:52,560 --> 00:38:55,560

Oh, I can hear it.

684

00:38:55,560 --> 00:39:02,560

This time it's just light candle, add gas and wait for Big Bang.

685

00:39:05,560 --> 00:39:07,560

This should be the most exciting one yet.

686

00:39:07,560 --> 00:39:09,560

Jesus.

687

00:39:09,560 --> 00:39:11,560

You didn't need that here, did you?

688

00:39:11,560 --> 00:39:14,560

You know, it's just as boring as last time.

689

00:39:14,560 --> 00:39:16,560

Hey!

690

00:39:16,560 --> 00:39:19,560

Yay!

691

00:39:19,560 --> 00:39:22,560

We have explosion!

692

00:39:24,560 --> 00:39:29,560

Finally, the sweet, sweet funk of porta-potty success.

693

00:39:29,560 --> 00:39:31,560

Good work, Carrie.

694

00:39:31,560 --> 00:39:34,560

Scotty.

695

00:39:34,560 --> 00:39:37,560

Get this all cleaned up and I'll see you back at the shop.

696

00:39:37,560 --> 00:39:39,560

Thank you very much, Adam.

697

00:39:39,560 --> 00:39:41,560

Really appreciate you leaving for the cleanup.

698

00:39:41,560 --> 00:39:43,560

Really, really do.

699

00:39:43,560 --> 00:39:45,560

Big!

700

00:39:45,560 --> 00:39:49,560

Well, guys, that was pretty darn definitive.

701

00:39:49,560 --> 00:39:55,560

Yeah, basically every one of our experiments says that there's no way somebody is going to blow up in a porta-potty

702

00:39:55,560 --> 00:39:58,560

due to gases caused by the decomposition of human waste.

703

00:39:58,560 --> 00:40:03,560

She's right. And the actual story is that this guy was working at a methane plant

704

00:40:03,560 --> 00:40:06,560

and the porta-potty was sitting over a pipe that was leaking.

705

00:40:06,560 --> 00:40:10,560

So basically he's sitting in this cloud of methane gas.

706

00:40:10,560 --> 00:40:14,560

So it's not exploding porta-potty, it's exploding methane factory.

707

00:40:14,560 --> 00:40:16,560

Which I think is very feasible.

708

00:40:16,560 --> 00:40:18,560

What? Totally different experiment.

709

00:40:24,560 --> 00:40:28,560

It's been one of the darkest days in myth-buster history.

710

00:40:28,560 --> 00:40:33,560

Breaking the driveshaft to covalt the fury into the air just hasn't happened.

711

00:40:35,560 --> 00:40:38,560

For our myth duo, failure might be an option.

712

00:40:38,560 --> 00:40:42,560

But driveshaft failure is a necessity.

713

00:40:43,560 --> 00:40:47,560

Early the next morning, in a flash of pre-dawn inspiration,

714

00:40:47,560 --> 00:40:50,560

Jamie and Adam have come up with a simple solution.

715

00:40:50,560 --> 00:40:55,560

So going forward, it's tightening the bolt and keeping it all together.

716

00:40:55,560 --> 00:40:59,560

And then the second you jam it in reverse, the tranny grabs that nut,

717

00:40:59,560 --> 00:41:01,560

unthreads it,

718

00:41:01,560 --> 00:41:03,560

and off we come.

719

00:41:03,560 --> 00:41:06,560

unthreads it and punk the driveshaft drops out.

720

00:41:06,560 --> 00:41:12,560

Unscrewing the shaft using reverse should eliminate the trial and error of cutting it.

721

00:41:14,560 --> 00:41:20,560

The bolt welded into the hollow driveshaft can be quickly re-screwed and reset.

722

00:41:23,560 --> 00:41:25,560

Keep going.

723

00:41:25,560 --> 00:41:29,560

Oh, there we go. That would be a failure.

724

00:41:29,560 --> 00:41:34,560

Well, we've got our special threaded coupler in the middle of the driveshaft

725

00:41:34,560 --> 00:41:38,560

that Jamie and I put in, and it's working beautifully as far as I can tell.

726

00:41:38,560 --> 00:41:43,560

It'll be good to get some, you know, finality to it and see this actually work or not work,

727

00:41:43,560 --> 00:41:45,560

whatever is the case.

728

00:41:45,560 --> 00:41:48,560

Now we pack up all our tools and head out to the site.

729

00:41:55,560 --> 00:42:01,560

Day two dawns with a growing hull from the build team and growing confidence from Adam.

730

00:42:01,560 --> 00:42:09,560

We watched the sun set on a failed experiment and here we are watching the sun rise over the same tarmac,

731

00:42:09,560 --> 00:42:16,560

and we in a few minutes are going to try to achieve success with the pole vaulting fury.

732

00:42:16,560 --> 00:42:20,560

Okay, car's going live. Step away from the car.

733

00:42:26,560 --> 00:42:28,560

Are we just going to do it?

734

00:42:28,560 --> 00:42:30,560

Yep.

735

00:42:30,560 --> 00:42:32,560

Okay, 25.

736

00:42:32,560 --> 00:42:34,560

25.

737

00:42:41,560 --> 00:42:43,560

Oh!

738

00:42:44,560 --> 00:42:50,560

It's not a hole in one, but for the first time the driveshaft drops on cue.

739

00:42:53,560 --> 00:42:55,560

Well, perfect!

740

00:42:55,560 --> 00:42:57,560

My timing was perfect.

741

00:42:57,560 --> 00:42:59,560

Did we miss the holes just slightly?

742

00:42:59,560 --> 00:43:03,560

Everything worked like a charm, but it did not seat in the hole.

743

00:43:03,560 --> 00:43:06,560

And re-screwing the bolt works just like in the workshop.

744

00:43:06,560 --> 00:43:07,560

Got it, started.

745

00:43:07,560 --> 00:43:09,560

I got it.

746

00:43:09,560 --> 00:43:11,560

Almost done.

747

00:43:11,560 --> 00:43:13,560

We're locked.

748

00:43:13,560 --> 00:43:15,560

Car's going hot.

749

00:43:15,560 --> 00:43:18,560

In seconds the car is ready to roll again.

750

00:43:18,560 --> 00:43:19,560

Good to go.

751

00:43:19,560 --> 00:43:21,560

You guys ready up there?

752

00:43:21,560 --> 00:43:22,560

Ready when you are.

753

00:43:22,560 --> 00:43:23,560

Alright.

754

00:43:23,560 --> 00:43:25,560

Alright, we're off.

755

00:43:25,560 --> 00:43:27,560

We're off!

756

00:43:27,560 --> 00:43:28,560

Go, baby!

757

00:43:28,560 --> 00:43:32,560

Mythbuster Morale is officially back in buoyant mode.

758

00:43:37,560 --> 00:43:39,560

That was too far off.

759

00:43:45,560 --> 00:43:47,560

I guess the brakes worked.

760

00:43:47,560 --> 00:43:49,560

The bolt did its job.

761

00:43:49,560 --> 00:43:53,560

Now Jamie and Adam have just got to do theirs.

762

00:43:53,560 --> 00:43:55,560

Here we go!

763

00:43:55,560 --> 00:43:57,560

This is the one!

764

00:43:57,560 --> 00:44:00,560

We're going to do it this time!

765

00:44:09,560 --> 00:44:12,560

For a second there, you almost believed him.

766

00:44:12,560 --> 00:44:15,560

It's my fault, it's Jamie's fault, it's my fault, it's Jamie's fault.

767

00:44:15,560 --> 00:44:22,560

I think I might have dropped the driveshaft just literally an inch too late on the other side of the hole.

768

00:44:22,560 --> 00:44:25,560

But we're getting better at it.

769

00:44:25,560 --> 00:44:27,560

That's a good distance.

770

00:44:27,560 --> 00:44:29,560

Catch up with it.

771

00:44:29,560 --> 00:44:31,560

25, 30.

772

00:44:41,560 --> 00:44:44,560

Now that you may be right, I think we hit it dead on.

773

00:44:44,560 --> 00:44:46,560

It looked perfect.

774

00:44:46,560 --> 00:44:48,560

That looked perfect.

775

00:44:48,560 --> 00:44:52,560

This drop was perfect, but the shaft still didn't catch in the hole.

776

00:44:52,560 --> 00:44:56,560

Well, I swear we hit that one dead on.

777

00:44:56,560 --> 00:45:03,560

I mean, I saw a drop, it dropped before the hole, it settled out and skipped right over the hole.

778

00:45:03,560 --> 00:45:08,560

So I'm now thinking that maybe we do need to go at a lower speed.

779

00:45:08,560 --> 00:45:14,560

For Jamie, mass combined with energy is a very simple equation.

780

00:45:14,560 --> 00:45:27,560

That car going at, even at like 15 or 20 miles an hour, there's way more, or way enough energy to, I think, to lift it up, to jack it up with that thing hit square.

781

00:45:32,560 --> 00:45:34,560

Look at the impact there.

782

00:45:34,560 --> 00:45:35,560

Who'd have thought it'd be so complex?

783

00:45:35,560 --> 00:45:37,560

Oh wait, we did.

784

00:45:37,560 --> 00:45:40,560

Call out the speeds, Scotty.

785

00:45:40,560 --> 00:45:42,560

15!

786

00:45:43,560 --> 00:45:45,560

Jamie slowed the fury down.

787

00:45:45,560 --> 00:45:49,560

Has he cleared the last pothole in the pole vault myth?

788

00:45:50,560 --> 00:45:53,560

Oh, he's way above Jamie.

789

00:45:56,560 --> 00:45:58,560

Yeah!

790

00:45:58,560 --> 00:46:00,560

Yeah!

791

00:46:09,560 --> 00:46:12,560

As a car is still running.

792

00:46:12,560 --> 00:46:16,560

After two long days, Adam's got a lot to get off his chest.

793

00:46:20,560 --> 00:46:29,560

It's a perfect pothole hit, even if it's not exactly a pole vaulting fury.

794

00:46:39,560 --> 00:46:41,560

Wow!

795

00:46:41,560 --> 00:46:44,560

You couldn't ask for a more solid hit than that.

796

00:46:44,560 --> 00:46:46,560

Yeah, look at that.

797

00:46:46,560 --> 00:46:49,560

It's a perfect, perfect square on hit.

798

00:46:49,560 --> 00:46:55,560

I mean, it's depressed it in the exact circle of our drive shaft, dead center of the hole.

799

00:46:55,560 --> 00:46:57,560

You don't get better than that.

800

00:46:57,560 --> 00:46:58,560

Nope.

801

00:46:58,560 --> 00:47:02,560

But there's one last surprise waiting for them in the trunk.

802

00:47:03,560 --> 00:47:05,560

There we go.

803

00:47:05,560 --> 00:47:07,560

Oh my God.

804

00:47:11,560 --> 00:47:13,560

They took out some brake lines too.

805

00:47:13,560 --> 00:47:15,560

That sort of says the whole story now.

806

00:47:15,560 --> 00:47:17,560

That's a lot of force.

807

00:47:17,560 --> 00:47:19,560

Look at that. Yeah, that's...

808

00:47:19,560 --> 00:47:21,560

Well, you know, it tells us one thing about this.

809

00:47:21,560 --> 00:47:25,560

Any faster wouldn't have done us any good, because it's just going to poke it through further.

810

00:47:25,560 --> 00:47:27,560

Yeah, that's true. Absolutely.

811

00:47:27,560 --> 00:47:33,560

And it did lift the back of the car up off the ground at least a foot or 18 inches from what I saw.

812

00:47:33,560 --> 00:47:35,560

And the car is done for.

813

00:47:35,560 --> 00:47:37,560

Yeah, that's it.

814

00:47:37,560 --> 00:47:40,560

Mythbusters took another car out of its misery.

815

00:47:41,560 --> 00:47:48,560

This myth is starting to look as busted as the fury.

816

00:47:56,560 --> 00:48:01,560

Well, that was an exhausting couple of days, but it was kind of rewarding in the end.

817

00:48:01,560 --> 00:48:04,560

You know, we pulled off a pretty tricky thing to do.

818

00:48:04,560 --> 00:48:09,560

You know, hitting that pothole exactly right, it's not easy.

819

00:48:09,560 --> 00:48:13,560

But your solution of the uncoupling drive shaft worked like a charm.

820

00:48:13,560 --> 00:48:16,560

Yeah, and we confirmed the stories that we'd heard.

821

00:48:16,560 --> 00:48:21,560

You know, cars hitting at various speeds and getting actually lifted off the ground a little bit.

822

00:48:21,560 --> 00:48:26,560

But we did not confirm the myth, which says that the car pole vaulted.

823

00:48:26,560 --> 00:48:32,560

It's just so implausible that it would lead to this and impossible that it would launch the car or turn it over.

824

00:48:32,560 --> 00:48:33,560

This one's busted.

825

00:48:33,560 --> 00:48:35,560

Interesting, but busted.

826

00:48:35,560 --> 00:48:36,560

Yeah.

827

00:48:39,560 --> 00:48:40,560

Yeah.

828

00:49:09,560 --> 00:49:11,560

Thanks for watching.