

1

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

It may not look like it, but we're professionals.

2

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

Do us a favor.

3

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

Don't try this at home! Whoa!

4

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

On this feature-length episode of Mythbusters...

5

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

...strap in for a high-flying...

6

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

...rocket-powered...

7

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

...adrenaline-fueled joyride.

8

00:00:24,000 --> 00:00:26,000

Here comes chaos!

9

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

Because the team mashed metal...

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

...then four fables of automotive mayhem.

11

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

First, Adam and Jamie feel the need for speed.

12

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

Will a city bus flip at 15?

13

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

Ain't no guts, no glory.

14

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

And the original compact, compact impact...

15

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

...is revised and super sonically supersized.

16

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

Then Carrie Grant and Tori find out if a luxury car...

17

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

...can really drive faster than gravity.

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00:01:02,000 --> 00:01:04,000

This is gonna be nuts.

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00:01:04,000 --> 00:01:08,000

And finally, do these silver screen chase scene cliches...

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00:01:08,000 --> 00:01:10,000

...match up to reality.

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00:01:13,000 --> 00:01:15,000

So get on board the Mythbus.

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00:01:15,000 --> 00:01:17,000

Jump in Mayhem.

23

00:01:17,000 --> 00:01:19,000

High jigs.

24

00:01:19,000 --> 00:01:21,000

Horse flay.

25

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

And destruction.

26

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

Step on.

27

00:01:24,000 --> 00:01:28,000

Because this is the demolition derby special.

28

00:01:35,000 --> 00:01:37,000

Who are the Mythbusters?

29

00:01:38,000 --> 00:01:39,000

Adam Savage.

30

00:01:39,000 --> 00:01:40,000

I love results.

31

00:01:40,000 --> 00:01:42,000

And Jamie Heidemann.

32

00:01:42,000 --> 00:01:44,000

I'm not so sure this is a good idea.

33

00:01:44,000 --> 00:01:48,000

Between them more than 30 years of special effects experience.

34

00:01:49,000 --> 00:01:50,000

We broke some stuff.

35

00:01:51,000 --> 00:01:52,000

Joining them...

36

00:01:53,000 --> 00:01:54,000

Tori Belachie.

37

00:01:54,000 --> 00:01:55,000

Not at all, bye.

38

00:01:56,000 --> 00:01:57,000

Grant Imahara.

39

00:01:58,000 --> 00:01:59,000

Watch out!

40

00:01:59,000 --> 00:02:00,000

And Carrie Byron.

41

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

Well, we may not have had hand grenades.

42

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

But at least we still have good chemistry.

43

00:02:04,000 --> 00:02:06,000

They don't just tell the myths.

44

00:02:06,000 --> 00:02:08,000

They put them to the test.

45

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

Excellent.

46

00:02:24,000 --> 00:02:26,000

I see everybody got the message.

47

00:02:26,000 --> 00:02:27,000

Yeah. Dress for demolition derby.

48

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

So what exactly is going on here?

49

00:02:29,000 --> 00:02:32,000

You're gonna love this. Tell them.

50

00:02:32,000 --> 00:02:35,000

Well, it's the Mythbusters demolition derby special.

51

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

Sweet.

52

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

I know. Give them the details.

53

00:02:37,000 --> 00:02:38,000

Well, we've got...

54

00:02:38,000 --> 00:02:41,000

Four myths about smashing, trashing and crashing cars, buses and trucks.

55

00:02:41,000 --> 00:02:42,000

Nice.

56

00:02:43,000 --> 00:02:45,000

To do this, we'll be using...

57

00:02:45,000 --> 00:02:47,000

Helicopters, explosives and rocket sleds.

58

00:02:49,000 --> 00:02:50,000

What?

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00:02:53,000 --> 00:02:54,000

Okay.

60

00:02:54,000 --> 00:02:56,000

Sharrades, Mythbusters style.

61

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

You gotta name the movie and the myth.

62

00:02:58,000 --> 00:02:59,000

Here we go.

63

00:03:02,000 --> 00:03:04,000

Oh no, there's a turn coming up.

64

00:03:04,000 --> 00:03:05,000

What am I gonna do?

65

00:03:05,000 --> 00:03:08,000

Everyone move over to this side of the bus.

66

00:03:10,000 --> 00:03:13,000

The movie is speed and it's the best turn.

67

00:03:13,000 --> 00:03:14,000

Absolutely right.

68

00:03:14,000 --> 00:03:16,000

However, it's more specific than that.

69

00:03:16,000 --> 00:03:19,000

Because Keanu says to everyone to move to the inside of the turn.

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00:03:19,000 --> 00:03:24,000

So the myth we're testing is that that bus at 50 miles an hour would roll over

71

00:03:24,000 --> 00:03:27,000

unless all the passengers had moved.

72

00:03:28,000 --> 00:03:31,000

We've got a hard ride coming up at the construction site.

73

00:03:31,000 --> 00:03:35,000

1994's speed is an iconic motoring movie.

74

00:03:35,000 --> 00:03:36,000

I can't make that turn.

75

00:03:36,000 --> 00:03:39,000

Everyone on this side of the bus now.

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00:03:39,000 --> 00:03:44,000

In this key scene, our hero supposedly prevents a 50 miles an hour flip

77

00:03:44,000 --> 00:03:47,000

by redistributing the passengers weight.

78

00:03:49,000 --> 00:03:52,000

But did science really save the day?

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00:03:52,000 --> 00:03:56,000

Or is this another case of fake film physics?

80

00:03:56,000 --> 00:03:59,000

I'll tell you, I don't see any reason we shouldn't just jump into this whole hog full scale.

81

00:03:59,000 --> 00:04:01,000

We're gonna need one of these only, bicker.

82

00:04:01,000 --> 00:04:03,000

And are we gonna be able to drive it?

83

00:04:03,000 --> 00:04:05,000

In fact, I have great news on that front.

84

00:04:07,000 --> 00:04:11,000

The insurance company has said it is okay for you and me to be driving during this test.

85

00:04:11,000 --> 00:04:12,000

Really?

86

00:04:12,000 --> 00:04:13,000

Yeah, let's do it.

87

00:04:15,000 --> 00:04:18,000

Okay, but hold your stunt driving horses.

88

00:04:18,000 --> 00:04:19,000

Welcome aboard.

89

00:04:19,000 --> 00:04:24,000

Before the guys get behind the wheel themselves, what exactly are they testing?

90

00:04:24,000 --> 00:04:29,000

Will the myth centers on moving the bus's center of gravity across to the right hand side

91

00:04:29,000 --> 00:04:31,000

for a sharp right hand turn?

92

00:04:31,000 --> 00:04:35,000

So Adam and Jamie are going to try exactly that.

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00:04:35,000 --> 00:04:39,000

And then to find out if redistributing the passengers saved the day,

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00:04:39,000 --> 00:04:43,000

they'll attempt the same turn with an evenly distributed load.

95

00:04:44,000 --> 00:04:49,000

But first, stuntman George hands out some basic instruction.

96

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

What do I do?

97

00:04:50,000 --> 00:04:51,000

Grab the steering wheel.

98

00:04:51,000 --> 00:04:54,000

And two things are immediately clear.

99

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

Not only is driving a bus quite simple, it's a ton of fun.

100

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

It's just like you imagine as a kid, like it's gonna be really fun to have this kind of big fat steering wheel

101

00:05:07,000 --> 00:05:10,000

and be able to do these like wide turns.

102

00:05:11,000 --> 00:05:13,000

That's the tire rubbing against the wheel well.

103

00:05:13,000 --> 00:05:17,000

But on a serious note, if they want to do this stunt themselves,

104

00:05:17,000 --> 00:05:21,000

they've got some serious safety infrastructure to install.

105

00:05:21,000 --> 00:05:24,000

So it's back to the shop to pimp this ride.

106

00:05:27,000 --> 00:05:31,000

To get it done in double time, the guys divide and conquer.

107

00:05:31,000 --> 00:05:33,000

The difference in styles.

108

00:05:55,000 --> 00:05:57,000

And with the roll cage.

109

00:05:57,000 --> 00:05:59,000

Yeah, it is solid.

110

00:05:59,000 --> 00:06:04,000

Plastic windows, racing harness and safety seat in place.

111

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

All that's left is the naming ceremony.

112

00:06:06,000 --> 00:06:11,000

Brought to you by the MTA, the Mythbusters Transportation Authority.

113

00:06:11,000 --> 00:06:18,000

Which means it's back to Alameda for testing where Jamie has lost the top spot on Adam's affection charm.

114

00:06:18,000 --> 00:06:20,000

I love this bus.

115

00:06:20,000 --> 00:06:25,000

But it could be a short love affair because the bus has a date with demolition.

116

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

You're out of my way!

117

00:06:29,000 --> 00:06:32,000

The cone's living in the distance behind me to describe a highway.

118

00:06:32,000 --> 00:06:37,000

Not an actual highway, but a theoretical highway that we have built to imitate the one in the movie.

119

00:06:37,000 --> 00:06:39,000

Next stop, the Mythbusting Zone.

120

00:06:40,000 --> 00:06:43,000

In the movie, there were 19 people on the bus.

121

00:06:43,000 --> 00:06:46,000

Now, 19 people adds up to a lot of weight.

122

00:06:46,000 --> 00:06:53,000

And that weight is going to very significantly affect how the bus behaves when it goes around a corner.

123

00:06:53,000 --> 00:06:55,000

Look at that spin it!

124

00:06:55,000 --> 00:06:59,000

So, we're going to simulate that weight with barrels full of water.

125

00:06:59,000 --> 00:07:01,000

And in this case, we've got seven barrels.

126

00:07:01,000 --> 00:07:05,000

Each barrel is going to weigh in excess of 450 pounds or so.

127

00:07:05,000 --> 00:07:08,000

We've got 19 people worth of weight.

128

00:07:08,000 --> 00:07:09,000

And that's it.

129

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

Because this first test will simply recreate the scene from the movie.

130

00:07:13,000 --> 00:07:16,000

Oh, this is like stunt fantasy camp, man.

131

00:07:16,000 --> 00:07:20,000

With the passengers on the right-hand side, as per Keanu's instructions,

132

00:07:20,000 --> 00:07:26,000

we'll find out if, at the all-important 50 miles per hour, the turn can even be made.

133

00:07:26,000 --> 00:07:27,000

Have fun!

134

00:07:27,000 --> 00:07:28,000

Oh, I will.

135

00:07:28,000 --> 00:07:29,000

See you later, buddy.

136

00:07:29,000 --> 00:07:32,000

If it can, the guys have their baseline reference.

137

00:07:32,000 --> 00:07:36,000

If it can't, it'll flip and Adam will be trapped inside.

138

00:07:36,000 --> 00:07:40,000

Okay, Adam, I guess we're good to go whenever you're ready.

139

00:07:40,000 --> 00:07:42,000

Alright, here we go.

140

00:07:42,000 --> 00:07:43,000

This is for glory.

141

00:07:43,000 --> 00:07:47,000

Despite all the safety precautions, there's tension,

142

00:07:47,000 --> 00:07:50,000

nerves, and a whole heap of excitement in the air.

143

00:07:50,000 --> 00:07:51,000

20 miles an hour.

144

00:07:51,000 --> 00:07:55,000

Dude, I can't believe I'm getting to drive a bus like this.

145

00:07:55,000 --> 00:07:57,000

35 miles per hour.

146

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

He's cranking.

147

00:07:59,000 --> 00:08:02,000

He's got the pedal to the metal.

148

00:08:02,000 --> 00:08:03,000

49.

149

00:08:05,000 --> 00:08:07,000

50 miles per hour.

150

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

Okay, I'm ready to make the turn.

151

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

Here it comes.

152

00:08:10,000 --> 00:08:13,000

He's getting airborne in the rear of the bus.

153

00:08:13,000 --> 00:08:14,000

I did it!

154

00:08:14,000 --> 00:08:15,000

I won!

155

00:08:15,000 --> 00:08:17,000

Spot the excited mythbusters.

156

00:08:17,000 --> 00:08:18,000

Yeah!

157

00:08:18,000 --> 00:08:22,000

Despite the protest from the tires, the bus made the turn.

158

00:08:22,000 --> 00:08:25,000

But just like the movie, only just.

159

00:08:25,000 --> 00:08:31,000

I cannot even tell you what an adrenaline rush that is to actually make the turn from the

160

00:08:31,000 --> 00:08:33,000

movie at the right time.

161

00:08:33,000 --> 00:08:38,000

I cannot even tell you what an adrenaline rush that is to actually make the turn from

162

00:08:38,000 --> 00:08:43,000

the movie at the right speed in the right bus with all the weight on the inside of the

163

00:08:43,000 --> 00:08:44,000

turn.

164

00:08:44,000 --> 00:08:46,000

Good job.

165

00:08:46,000 --> 00:08:51,000

My heart was pounding and that's a result.

166

00:08:51,000 --> 00:08:58,000

Surprisingly enough, on Adam's run, the movie physics lined right up.

167

00:08:58,000 --> 00:09:03,000

They moved all of the people to that side of the bus, which is what we did with the

168

00:09:03,000 --> 00:09:07,000

barrels full of water and the bus didn't tip when it made the turn.

169

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

So after flirting with the flip, things are looking up for the film fable.

170

00:09:12,000 --> 00:09:14,000

But where to next?

171

00:09:14,000 --> 00:09:19,000

My successful run proved that the turn we see in the movie is in fact possible.

172

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

But is it because they redistributed the weight?

173

00:09:22,000 --> 00:09:25,000

We don't know and that's the next thing we got to find out.

174

00:09:28,000 --> 00:09:38,000

Okay, what do we got to smash?

175

00:09:38,000 --> 00:09:41,000

We have a four course menu of demolition and destruction.

176

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

We have cars, of course.

177

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

We got a fruit stand, we got a fence, we got a semi-trailer and an RV.

178

00:09:47,000 --> 00:09:53,000

Yes, we are testing Hollywood crash cliches and whether they're anything close to reality.

179

00:09:53,000 --> 00:09:57,000

Okay, like the chase scene where they drive through the fruit stand and everybody's fine.

180

00:09:57,000 --> 00:09:58,000

Exactly.

181

00:09:58,000 --> 00:10:01,000

Yeah, or like in the 70's cop show where they bust through the chain link fence.

182

00:10:01,000 --> 00:10:04,000

And if you can drive through an RV like it's not even there.

183

00:10:04,000 --> 00:10:05,000

Like in Mad Max.

184

00:10:05,000 --> 00:10:07,000

Just like Mad Max.

185

00:10:07,000 --> 00:10:09,000

Okay, well what's the semi-four?

186

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

Instant convertible.

187

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

I love that one.

188

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

That's where the truck comes across the road.

189

00:10:13,000 --> 00:10:14,000

There's no time to stop.

190

00:10:14,000 --> 00:10:17,000

The car drives under, cuts the roof clean off, but the driver's unharmed.

191

00:10:17,000 --> 00:10:21,000

This is gonna be fun.

192

00:10:21,000 --> 00:10:27,000

So in the real world would these crash cliches really look like this?

193

00:10:27,000 --> 00:10:31,000

And would you really drive away unharmed?

194

00:10:31,000 --> 00:10:33,000

So how you guys want to test this?

195

00:10:33,000 --> 00:10:35,000

I think this is pretty straightforward.

196

00:10:35,000 --> 00:10:39,000

We just set up the obstacles just like in the movies and hit it with the real car and see what really happens.

197

00:10:39,000 --> 00:10:41,000

So we're gonna radio control some cars?

198

00:10:41,000 --> 00:10:43,000

No, let's go back up to the guys at e-tech.

199

00:10:43,000 --> 00:10:46,000

The tow system's already in place and it went so well last time.

200

00:10:46,000 --> 00:10:47,000

Good idea.

201

00:10:47,000 --> 00:10:48,000

Less work for me.

202

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

What's first?

203

00:10:49,000 --> 00:10:50,000

Fruit stand.

204

00:10:50,000 --> 00:10:52,000

Melons, anyone?

205

00:10:52,000 --> 00:10:56,000

It's a 70's cop show car chase favorite.

206

00:10:56,000 --> 00:11:03,000

A spectacular fruit stand drive-through that leaves driver and car completely undamaged.

207

00:11:03,000 --> 00:11:08,000

And where better to test the reality of a car crash than e-tech.

208

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

Where last time the team hit repeatedly a moose loose on the road.

209

00:11:16,000 --> 00:11:21,000

But this time out goes the animal and in comes the rotten fruit and vegetables.

210

00:11:21,000 --> 00:11:22,000

These are gonna be our fruit stands.

211

00:11:22,000 --> 00:11:25,000

This is for our classic car chase scene.

212

00:11:25,000 --> 00:11:27,000

Which way to the destruction?

213

00:11:27,000 --> 00:11:30,000

The car drives through the fruit stand, vendor jumps out of the way.

214

00:11:30,000 --> 00:11:32,000

Fruits and vegetables go everywhere.

215

00:11:32,000 --> 00:11:34,000

And then it just keeps right on driving.

216

00:11:34,000 --> 00:11:38,000

What we want to know, if you do crash into a fruit stand, would you be able to continue the chase?

217

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

My feeling is you're gonna smash up your radiator, your car's gonna overheat,

218

00:11:42,000 --> 00:11:45,000

and you're gonna stall off the side of the road and the cop's gonna catch you.

219

00:11:45,000 --> 00:11:48,000

Hope no cars come crashing into my fruit stand.

220

00:11:48,000 --> 00:11:50,000

Probably shouldn't have set it up there then.

221

00:11:50,000 --> 00:11:54,000

Because real soon that's going to be a high speed pursued highway.

222

00:11:54,000 --> 00:11:57,000

For this test we're gonna have the car going at 70 miles an hour.

223

00:11:57,000 --> 00:11:59,000

Because let's face it, this is a high speed chase.

224

00:11:59,000 --> 00:12:02,000

And you want to be going as fast as you can and be able to control the car.

225

00:12:02,000 --> 00:12:04,000

So that's what we're picking 70 miles an hour.

226

00:12:04,000 --> 00:12:07,000

So this is the setup for our first Hollywood crash test.

227

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

This is the tow vehicle, which is going to be pulling our crash vehicle on a 2 to 1 pulling ratio.

228

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

Which means when this vehicle gets up to 35 miles an hour, this car will be going 70 miles an hour.

229

00:12:18,000 --> 00:12:24,000

It'll be towed straight down the track by a cable, all the way to the end, where it'll release.

230

00:12:24,000 --> 00:12:27,000

And hit this fruit stand in a spectacular way.

231

00:12:27,000 --> 00:12:29,000

But will it be Hollywood spectacular?

232

00:12:29,000 --> 00:12:36,000

Alright, this is Hollywood crash test into the fruit stand in 3, 2, 1.

233

00:12:36,000 --> 00:12:38,000

Go!

234

00:12:41,000 --> 00:12:49,000

20, 40, 50, 60, 70, 70, 70.

235

00:12:57,000 --> 00:13:00,000

That was awesome!

236

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

Talk about a tossed fruit salad.

237

00:13:07,000 --> 00:13:12,000

Yep, the spray of fruit and vegetables was very Hollywood.

238

00:13:12,000 --> 00:13:16,000

And you can see why it's become such a crash cliché.

239

00:13:16,000 --> 00:13:18,000

It makes for good TV.

240

00:13:18,000 --> 00:13:21,000

That absolutely lived up to Hollywood spectacle.

241

00:13:21,000 --> 00:13:23,000

It was beautiful.

242

00:13:23,000 --> 00:13:29,000

But in reality, did the car make it through unharmed and wasn't able to continue its car chase?

243

00:13:29,000 --> 00:13:31,000

Whoa!

244

00:13:31,000 --> 00:13:37,000

I think even if you did make it through the fruit stand, you can't really see so well out the windshield.

245

00:13:37,000 --> 00:13:40,000

Look at all its smushy, spruce smoothies.

246

00:13:40,000 --> 00:13:42,000

Oh! Cool!

247

00:13:42,000 --> 00:13:45,000

Okay, well now that you've seen the footage, what do you think?

248

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

It looks like a classic Hollywood crash to me.

249

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

Yeah, I mean, no wonder they use the fruit stand on TV all the time.

250

00:13:50,000 --> 00:13:54,000

It looks awesome, and from this angle, it looks like it made it through easily.

251

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

Yeah, but look at it from the back. I mean, the hood clearly crushed from the impact.

252

00:13:58,000 --> 00:14:02,000

Yeah, you know what? There's no way that car would be able to continue the chase and the shape that it's in.

253

00:14:02,000 --> 00:14:03,000

So this one's busted?

254

00:14:03,000 --> 00:14:04,000

Yeah, busted.

255

00:14:04,000 --> 00:14:05,000

Busted.

256

00:14:05,000 --> 00:14:06,000

Well, that's not it, right?

257

00:14:06,000 --> 00:14:08,000

Nope, chain link fence is next.

258

00:14:29,000 --> 00:14:36,000

The Mythbusters have set their sights on some car carnage.

259

00:14:36,000 --> 00:14:43,000

They're testing four myths of motoring mayhem guaranteed to bend your fender.

260

00:14:43,000 --> 00:14:48,000

So buckle up, brace, and kiss the asphalt goodbye.

261

00:14:48,000 --> 00:14:51,000

This is the Demolition Derby Special.

262

00:14:51,000 --> 00:14:56,000

And Jamie and Adam began the metal mashing with need for speed.

263

00:14:56,000 --> 00:15:00,000

Everyone on this side of the bus now. This side of the bus.

264

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

With Keanu's quick thinking of made a difference in real life,

265

00:15:04,000 --> 00:15:10,000

was the moving of those passengers enough to counteract a catastrophic role?

266

00:15:12,000 --> 00:15:13,000

We're tough.

267

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

So far, the movie is matching up to reality.

268

00:15:16,000 --> 00:15:18,000

We ain't getting airborne in the rear end.

269

00:15:18,000 --> 00:15:23,000

With the passengers in the same configuration, Adam made the turn, but only just.

270

00:15:23,000 --> 00:15:24,000

I won.

271

00:15:25,000 --> 00:15:26,000

So what's next?

272

00:15:26,000 --> 00:15:28,000

Well, I think we do the same turn again,

273

00:15:28,000 --> 00:15:31,000

except this time with the weight evenly distributed throughout the bus.

274

00:15:33,000 --> 00:15:35,000

Okay, we're moving ahead.

275

00:15:36,000 --> 00:15:37,000

This next run is it.

276

00:15:37,000 --> 00:15:42,000

This is where the rubber literally meets or leaves the road.

277

00:15:42,000 --> 00:15:44,000

We're at 10 miles an hour.

278

00:15:44,000 --> 00:15:49,000

We are now doing the speed turn at 50 miles an hour with an evenly balanced load,

279

00:15:49,000 --> 00:15:52,000

which in the movie they thought would make the bus tip over.

280

00:15:52,000 --> 00:15:53,000

They were at 20.

281

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

If it doesn't, the myth is cleanly and beautifully busted.

282

00:15:56,000 --> 00:15:58,000

Okay, 30 miles an hour.

283

00:15:58,000 --> 00:16:01,000

It seems so peaceful, you know, you can't hear anything.

284

00:16:01,000 --> 00:16:03,000

35 miles an hour.

285

00:16:03,000 --> 00:16:04,000

Just a bus approaching.

286

00:16:04,000 --> 00:16:06,000

No sign of the impending mayhem.

287

00:16:06,000 --> 00:16:08,000

50 miles an hour.

288

00:16:08,000 --> 00:16:10,000

Here comes chaos.

289

00:16:14,000 --> 00:16:15,000

Yeah!

290

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

Oh yeah!

291

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

That was beautiful!

292

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

With one expertly executed stunt,

293

00:16:22,000 --> 00:16:25,000

Jamie jumps back to number one on Adam's affection chart.

294

00:16:25,000 --> 00:16:28,000

But there was no 50 mile an hour flip.

295

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

That's frustrating, I tell you why,

296

00:16:30,000 --> 00:16:35,000

because I gave it everything I could and that bus just wouldn't roll.

297

00:16:35,000 --> 00:16:39,000

Just to make sure, Adam suggests Jamie tries again.

298

00:16:39,000 --> 00:16:41,000

Copy that, I'm on my way.

299

00:16:41,000 --> 00:16:43,000

Oh, that's an excited item and you hear that?

300

00:16:43,000 --> 00:16:45,000

We don't hear that often around here.

301

00:16:46,000 --> 00:16:49,000

So it's round two and adrenaline junkie Jamie

302

00:16:49,000 --> 00:16:52,000

once again hits the turn at top speed.

303

00:16:57,000 --> 00:17:00,000

That's pretty much it as far as I'm concerned.

304

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

Again, there was plenty of rock, but no roll.

305

00:17:03,000 --> 00:17:07,000

And with that, it's back to the shop to make the call.

306

00:17:07,000 --> 00:17:09,000

Well, Hollywood got at least part of this right.

307

00:17:09,000 --> 00:17:11,000

With all the passengers on the inside of the bus turned,

308

00:17:11,000 --> 00:17:14,000

that bus made that turn at 50 miles an hour.

309

00:17:14,000 --> 00:17:16,000

Yeah, but you know, the real question here was

310

00:17:16,000 --> 00:17:19,000

about what would have happened if they hadn't moved?

311

00:17:19,000 --> 00:17:21,000

Right, and in that case, when we readjusted the way,

312

00:17:21,000 --> 00:17:24,000

it still made the turn and so the myth is busted.

313

00:17:24,000 --> 00:17:27,000

I agree, it's busted, but you know, we can't leave it there.

314

00:17:27,000 --> 00:17:30,000

No, we can't. I want to make this bus obedient

315

00:17:30,000 --> 00:17:33,000

and I want to make it roll over for us. Any ideas?

316

00:17:33,000 --> 00:17:37,000

Yeah, you know, I was looking at that bus and I really want to R-see it.

317

00:17:37,000 --> 00:17:40,000

You know, that'd be one heck of a thing.

318

00:17:40,000 --> 00:17:43,000

That's perfect, let's flip it.

319

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

We have to remote control this bus and as we found out on

320

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

Driveshaft Pull Volt, R-seeing a vehicle can be devilishly difficult,

321

00:17:50,000 --> 00:17:53,000

especially the translation from small joysticks

322

00:17:55,000 --> 00:17:58,000

to big movements of cars driving around.

323

00:17:58,000 --> 00:17:59,000

What the hell was that?

324

00:17:59,000 --> 00:18:02,000

In this case, we're doing something entirely different.

325

00:18:02,000 --> 00:18:05,000

We are doing a one-to-one remote control,

326

00:18:05,000 --> 00:18:09,000

what's called a Waldo in the industry, to the bus, to wit.

327

00:18:09,000 --> 00:18:13,000

This will be our remote control steering for the bus.

328

00:18:13,000 --> 00:18:17,000

We're going to have a switch for brakes and a switch for throttle

329

00:18:17,000 --> 00:18:21,000

because it's either all on or all off and this will be our steering.

330

00:18:21,000 --> 00:18:25,000

It'll allow us to really finesse this thing, hopefully.

331

00:18:25,000 --> 00:18:27,000

I think I'll only need now as a cup holder.

332

00:18:27,000 --> 00:18:31,000

Meanwhile, well that's not a good thing.

333

00:18:31,000 --> 00:18:35,000

Jamie has the tricky task of mechanically translating

334

00:18:35,000 --> 00:18:40,000

the information from Adam's remote control rig to the bus itself.

335

00:18:40,000 --> 00:18:44,000

But true to form, our mustachioed maestro comes good.

336

00:18:44,000 --> 00:18:46,000

Go ahead and bring it all the way to the right.

337

00:18:46,000 --> 00:18:47,000

All the way to the right?

338

00:18:47,000 --> 00:18:48,000

Yeah.

339

00:18:50,000 --> 00:18:51,000

Oh yeah!

340

00:18:51,000 --> 00:18:53,000

I'd say that's a pretty sharp turn.

341

00:18:53,000 --> 00:18:55,000

This is awesome!

342

00:18:55,000 --> 00:18:58,000

We could have so much fun with this thing.

343

00:18:59,000 --> 00:19:08,000

Gary Grant and Tory are taking on tall tales of Hollywood Crash cliches.

344

00:19:08,000 --> 00:19:15,000

And after the car was busted from a fruit stand drive-through, so was the mill.

345

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

Next up, it's the old chase scene gatecraft.

346

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

The question is, would it really fly off the hood like so much set dressing?

347

00:19:24,000 --> 00:19:27,000

Or would there be real-life repercussions?

348

00:19:27,000 --> 00:19:31,000

One thing's for sure, this isn't a film prop.

349

00:19:31,000 --> 00:19:36,000

It's steel, it's heavy, and most importantly, the guys have rigged it realistically.

350

00:19:36,000 --> 00:19:39,000

The things that we're looking for from this crash are,

351

00:19:39,000 --> 00:19:41,000

is the car drivable after it bangs through the fence?

352

00:19:41,000 --> 00:19:44,000

And, does it look like Hollywood?

353

00:19:44,000 --> 00:19:47,000

I really, really doubt the part where it's going to look like Hollywood.

354

00:19:47,000 --> 00:19:50,000

I don't think it's just going to go, pink, and you're going to be able to drive through.

355

00:19:50,000 --> 00:19:52,000

I think I'm going to go with busted on this one.

356

00:19:52,000 --> 00:19:53,000

All right, let's wreck this thing.

357

00:19:53,000 --> 00:20:01,000

Okay, this is Hollywood Gate Crashing Test in three, two, one, go!

358

00:20:02,000 --> 00:20:11,000

Twenty miles an hour, thirty miles an hour, forty, fifty miles, sixty miles an hour, seventy miles an hour!

359

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

Woo!

360

00:20:15,000 --> 00:20:19,000

We were looking to see if this was going to look like Hollywood, and it looked like Hollywood.

361

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

The gate just busted right open.

362

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

I was wrong, I'm totally excited about that.

363

00:20:25,000 --> 00:20:29,000

Yes, it was the perfect example of a Hollywood Gate Crashing.

364

00:20:29,000 --> 00:20:35,000

It flew open, and the car appeared to breeze through unharmed, or did it?

365

00:20:38,000 --> 00:20:45,000

Let me tell you, if I was an action hero, having the airbags go off and the horn keep going would be pretty annoying.

366

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

You would be very distracting while you're driving.

367

00:20:48,000 --> 00:20:54,000

Distracting, impractical, and dangerous, but as Grant proves, it's still drivable.

368

00:20:54,000 --> 00:20:59,000

It doesn't handle as well as it used to. Not the smoothest ride, but still works.

369

00:20:59,000 --> 00:21:01,000

So, where does that leave us?

370

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

Well, runs.

371

00:21:03,000 --> 00:21:06,000

I don't want to call it confirmed because the airbag deployed.

372

00:21:06,000 --> 00:21:09,000

What if we call it plausible because a lot of older cars don't have airbags?

373

00:21:09,000 --> 00:21:12,000

Good point. Well, it looked like Hollywood, and you could still drive the car.

374

00:21:12,000 --> 00:21:14,000

This one's plausible.

375

00:21:14,000 --> 00:21:15,000

Plausible.

376

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

Plausible.

377

00:21:19,000 --> 00:21:22,000

Next on Mythbusters, find out why we can't get car insurance.

378

00:21:30,000 --> 00:21:36,000

Before the Hollywood car crashes continue, the car carnage is now taken to great heights.

379

00:21:36,000 --> 00:21:38,000

All right, you guys, what's next?

380

00:21:38,000 --> 00:21:42,000

This one is going to be big. We are dropping a car from 4,000 feet.

381

00:21:42,000 --> 00:21:44,000

Oh, that sounds cool. So what's the myth?

382

00:21:44,000 --> 00:21:49,000

Well, it's from a car commercial, but basically there's a helicopter suspending a car at 4,000 feet.

383

00:21:49,000 --> 00:21:51,000

4,000 feet below, there's a giant X.

384

00:21:51,000 --> 00:21:56,000

Oh, yeah, I've seen this one. And there's a second car that's on the ground that's also 4,000 feet away from the X.

385

00:21:56,000 --> 00:22:00,000

And it's going at top speed, and they give a signal to the helicopter to release the other car,

386

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

and then it's a race to see who gets the X first. So what happens?

387

00:22:04,000 --> 00:22:07,000

Well, the car racing on the ground reaches the X a split second before the falling car.

388

00:22:07,000 --> 00:22:13,000

Wow, that's going to be spectacular. And there's a lot of questions to be answered to find out what

exactly is going to happen.

389

00:22:13,000 --> 00:22:23,000

Proving that sexy science sells, this slick commercial uses gravity and terminal velocity to showcase a luxury product.

390

00:22:23,000 --> 00:22:34,000

Traveling at its top speed of 142 miles per hour, the car in question competes with a second falling vehicle in a 4,000 foot race.

391

00:22:34,000 --> 00:22:40,000

The result? Well, the commercial claims the car kicks gravity's butt.

392

00:22:40,000 --> 00:22:43,000

But is this ad fact or fiction?

393

00:22:43,000 --> 00:22:52,000

Alright, so will the car driving at top speed 142 miles an hour over 4,000 feet beat the car falling from the helicopter 4,000 feet above the X?

394

00:22:52,000 --> 00:22:57,000

Which car is going to beat which?

395

00:22:57,000 --> 00:23:03,000

I think that depends on a number of factors. For example, will the car fall flat like it does in the commercial?

396

00:23:03,000 --> 00:23:08,000

Yeah, that's important because drag and surface area is going to determine how fast that car falls.

397

00:23:08,000 --> 00:23:13,000

Exactly, and I want to know exactly what the chances are of a car hitting an X from 4,000 feet.

398

00:23:13,000 --> 00:23:18,000

Well, before we go to full scale, why don't we get a couple cars, drop them from a crane and see what they do?

399

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

You know you're onto something big when your small scale involves dropping cars from a crane.

400

00:23:23,000 --> 00:23:29,000

But before the fender bending begins, let's bend your brains with some background info.

401

00:23:29,000 --> 00:23:37,000

An object's top speed, its terminal velocity, is reached when gravity is equal by drag.

402

00:23:37,000 --> 00:23:49,000

And thanks to a previous parable about parachuting, the team know that how an object falls is a crucial component in shaping its terminal velocity.

403

00:23:49,000 --> 00:23:56,000

Which means the way the car falls through the air will dictate the course of this myth.

404

00:23:56,000 --> 00:24:06,000

So we are back at the Tiger Aggregates Vernalis plant, which is the very same location where we almost flew our bamboo ultralight from the McGuy Respecial.

405

00:24:07,000 --> 00:24:11,000

That was sick! It almost had flight!

406

00:24:11,000 --> 00:24:15,000

That's our crane, no way!

407

00:24:15,000 --> 00:24:16,000

It's bigger than I thought.

408

00:24:16,000 --> 00:24:21,000

So this myth is going to require us to drop a car from 4,000 feet in the air.

409

00:24:21,000 --> 00:24:25,000

Now before we do that, we just want to get an idea of what we're getting ourselves into.

410

00:24:25,000 --> 00:24:30,000

So Hatton Crane has lent us the largest mobile hydraulic crane in all of California.

411

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

It can extend over 400 feet in the air.

412

00:24:33,000 --> 00:24:36,000

We're going to drop a few cars and see how they fall.

413

00:24:36,000 --> 00:24:42,000

With the same rig as the commercial, they'll be lifting each of their test cars and dropping them.

414

00:24:42,000 --> 00:24:44,000

That is one big crane.

415

00:24:44,000 --> 00:24:45,000

I know!

416

00:24:45,000 --> 00:24:49,000

And in case you're wondering why the guys are focusing on the fall, here's Grant.

417

00:24:49,000 --> 00:24:53,000

Now how the car falls in air is really critical to this myth.

418

00:24:53,000 --> 00:25:01,000

If it falls flat like it does in the commercial, there's more drag, which means it takes longer for the car to get to the X.

419

00:25:01,000 --> 00:25:03,000

Okay, we're live.

420

00:25:03,000 --> 00:25:10,000

If it falls nose first, that means there's less drag and it takes less time to get to the X and this myth will probably be busted.

421

00:25:10,000 --> 00:25:13,000

Take it up to the position we're going to drop from.

422

00:25:13,000 --> 00:25:15,000

I think that this myth is extremely complicated.

423

00:25:15,000 --> 00:25:21,000

I have a hard time believing that cars are going to drop smoothly to the ground horizontally

424

00:25:21,000 --> 00:25:25,000

and another car is going to smoothly be able to meet it at one point.

425

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

I just think that there's so many factors involved.

426

00:25:28,000 --> 00:25:30,000

We're going to see a little more like this.

427

00:25:31,000 --> 00:25:33,000

Alright, here we go.

428

00:25:33,000 --> 00:25:38,000

In three, two, one, go!

429

00:25:41,000 --> 00:25:44,000

Oh my god, look at that! It's going down!

430

00:25:48,000 --> 00:25:50,000

My god!

431

00:25:50,000 --> 00:25:53,000

Did you see how it went nose down?

432

00:25:53,000 --> 00:25:56,000

Yeah, it started flat and then it started to turn.

433

00:25:56,000 --> 00:25:58,000

I'm only going to keep going from there.

434

00:25:58,000 --> 00:26:01,000

Oh! Wow!

435

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

Dang!

436

00:26:03,000 --> 00:26:10,000

That was sick! Now, I know this is not about the crash. It's about how the car falls, but that was a spectacular crash.

437

00:26:10,000 --> 00:26:12,000

Yep, and the result couldn't be clearer.

438

00:26:12,000 --> 00:26:19,000

Unlike the commercial, this car tipped forward and parked itself nose first in the quarry.

439

00:26:19,000 --> 00:26:22,000

Whoops! Did we get the rental insurance on this?

440

00:26:23,000 --> 00:26:29,000

So after just the first test, the myth is looking like it's been dropped from 400 feet.

441

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

But the team isn't given up yet, not with two more cars to destroy.

442

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

Should we reset for another one?

443

00:26:35,000 --> 00:26:37,000

Yeah, we get to do it again!

444

00:26:37,000 --> 00:26:38,000

Next!

445

00:26:38,000 --> 00:26:40,000

Okay, go!

446

00:26:40,000 --> 00:26:44,000

That was more satisfying than anything we've done in a long time.

447

00:26:44,000 --> 00:26:47,000

Fun times with a 50-mile-an-hour flip.

448

00:26:47,000 --> 00:26:49,000

Yeah!

449

00:26:53,000 --> 00:26:55,000

Don't try anything you've seen on the show at home.

450

00:26:55,000 --> 00:26:58,000

We are what you're called experts.

451

00:27:02,000 --> 00:27:08,000

For those of you who are just tuning in, we are replicating the 50-mile-per-hour hard bus turn from

the movie Speed.

452

00:27:08,000 --> 00:27:14,000

The myth is that unless everybody in that bus moved to the inside of the turn for the turn, the bus would tip over.

453

00:27:14,000 --> 00:27:19,000

So, I've already taken a run in the bus at 50 miles an hour and successfully made the turn with a proper amount of weight

454

00:27:19,000 --> 00:27:21,000

equalling people on the inside of the turn.

455

00:27:21,000 --> 00:27:23,000

Ah, I did it! I won!

456

00:27:23,000 --> 00:27:25,000

Very, very good.

457

00:27:25,000 --> 00:27:30,000

Then we balanced out the load and Jamie took a run at 50 miles an hour and also successfully made

the turn.

458

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

That's busting the myth.

459

00:27:31,000 --> 00:27:36,000

But of course we still want to see a bus tip over and really honestly neither of us wanted to be in the bus when they tipped over.

460

00:27:36,000 --> 00:27:39,000

So we remote controlled the bus with this rig right here.

461

00:27:39,000 --> 00:27:43,000

Ah, this is the most fun toy we've ever built.

462

00:27:43,000 --> 00:27:44,000

And I swear it's going to tip.

463

00:27:44,000 --> 00:27:45,000

Heller high water.

464

00:27:45,000 --> 00:27:48,000

All right, so we do a test?

465

00:27:48,000 --> 00:27:55,000

We don't want to start right off the bat doing the whole inch a lot because when this system is fully operational,

466

00:27:55,000 --> 00:27:57,000

it's full throttle with the brakes off.

467

00:27:57,000 --> 00:27:59,000

And we want to start a little softer than that.

468

00:27:59,000 --> 00:28:08,000

So I'm going to be in the bus for this test run and I'm going to have the brakes and the throttle myself while Adam is getting used to the steering.

469

00:28:08,000 --> 00:28:09,000

Radio's on.

470

00:28:09,000 --> 00:28:13,000

And then we'll incrementally ramp it up until we go for the whole thing.

471

00:28:13,000 --> 00:28:15,000

I'm go.

472

00:28:15,000 --> 00:28:16,000

And what do you know?

473

00:28:16,000 --> 00:28:19,000

Adam sitting in the back of the pickup truck.

474

00:28:19,000 --> 00:28:21,000

I got to tell you, this is quite a nice way to drive.

475

00:28:21,000 --> 00:28:27,000

Is successfully steering the bus from 100 feet behind it.

476

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

Well, mostly.

477

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

What are you doing?

478

00:28:29,000 --> 00:28:31,000

Sorry, I was over correcting there.

479

00:28:31,000 --> 00:28:38,000

Okay, well let's try and do a full throttle run because the real proof is in how well you can keep it on a straight line at full speed.

480

00:28:38,000 --> 00:28:39,000

Over.

481

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

That right there was a phenomenally successful test of the systems.

482

00:28:44,000 --> 00:28:45,000

45.

483

00:28:45,000 --> 00:28:52,000

This really, I think, heralds in an entirely new era of remote vehicle control for mythbusters.

484

00:28:52,000 --> 00:28:54,000

This rig right here, we're not breaking this thing down.

485

00:28:54,000 --> 00:28:57,000

We're going to hang it from Jamie's ceiling and label all the parts.

486

00:28:57,000 --> 00:29:03,000

Next time we got to RC something, this is how we do it because this is awesome.

487

00:29:03,000 --> 00:29:09,000

So now that the guys have control of the bus from a safe distance, it's time to ensure it tips.

488

00:29:09,000 --> 00:29:12,000

The whole thing about this myth is it's about the center of gravity.

489

00:29:12,000 --> 00:29:20,000

Keanu in the movie perceived that a balanced center of gravity wouldn't be enough to keep the bus from tipping, so he moved the center of gravity inward.

490

00:29:20,000 --> 00:29:31,000

Now we've got to unbalance the center of gravity enough with enough weight and enough features to get that bus to go past its CG in the middle of that turn and tip over.

491

00:29:31,000 --> 00:29:33,000

What are we doing to make this bus tip?

492

00:29:33,000 --> 00:29:34,000

Let's have a look.

493

00:29:34,000 --> 00:29:39,000

We've shifted all our barrels, which are our surrogate people, to the outside of the turn.

494

00:29:39,000 --> 00:29:43,000

We've added 4,000 pounds of steel to the roof to make it top heavy.

495

00:29:43,000 --> 00:29:56,000

And finally, with the nail in the coffin, we put a valve on this side of the bus on the air shock, and we're going to dump the air, dropping the bus on this side, bringing all that weight over center, and over goes the bus.

496

00:29:56,000 --> 00:29:59,000

It's in gear, it's all powered up.

497

00:29:59,000 --> 00:30:02,000

All right, let's go, my adrenaline's pumping.

498

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

But with a test of this scale, anything could happen.

499

00:30:05,000 --> 00:30:07,000

All right, here we go.

500

00:30:07,000 --> 00:30:10,000

Taking off the brake and putting on the throttle on full.

501

00:30:10,000 --> 00:30:12,000

It's never never.

502

00:30:12,000 --> 00:30:14,000

Throttle did not engage.

503

00:30:14,000 --> 00:30:15,000

Repeat.

504

00:30:15,000 --> 00:30:16,000

Throttle did not engage.

505

00:30:16,000 --> 00:30:19,000

Including a failure of the throttle control.

506

00:30:19,000 --> 00:30:28,000

But Jamie, moving quicker than we've ever seen him on Mythbusters, jumps aboard, manually overrides the system, and puts the pedal to the metal.

507

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

However...

508

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

The brakes not working.

509

00:30:32,000 --> 00:30:34,000

Now the brakes won't disengage.

510

00:30:34,000 --> 00:30:35,000

We're going to go in there.

511

00:30:35,000 --> 00:30:37,000

But Jamie's on a mission.

512

00:30:37,000 --> 00:30:44,000

Our man of action, back aboard, takes off the brakes, but with a throttle full on, the race is on.

513

00:30:44,000 --> 00:30:46,000

Quickly, quickly.

514

00:30:48,000 --> 00:30:55,000

Fortunately, the truck has enough power to catch up, and once back in range, the steering is still working.

515

00:30:55,000 --> 00:30:57,000

That's a good distance.

516

00:30:57,000 --> 00:31:02,000

Despite the improvised and chaotic start, the test is still on track.

517

00:31:02,000 --> 00:31:06,000

Holy crap, this is almost as much of an adrenaline rush as when I was driving it.

518

00:31:06,000 --> 00:31:07,000

Here it comes.

519

00:31:07,000 --> 00:31:09,000

Here it comes.

520

00:31:17,000 --> 00:31:19,000

And there she goes.

521

00:31:20,000 --> 00:31:22,000

The full flip at 50.

522

00:31:26,000 --> 00:31:28,000

And here's a classic understatement.

523

00:31:28,000 --> 00:31:30,000

Yeah!

524

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

Woo!

525

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

That's cool!

526

00:31:33,000 --> 00:31:35,000

You could say the boys are happy.

527

00:31:39,000 --> 00:31:44,000

That was more satisfying than anything we've done in a long time.

528

00:31:49,000 --> 00:31:51,000

That was something else in the start.

529

00:31:51,000 --> 00:31:54,000

I was getting tired of all this messing around with radio bugs.

530

00:31:54,000 --> 00:32:00,000

This servo wasn't working, that servo wasn't working, so I hit the switch for full throttle, and then I ran.

531

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

Helping that I could make it back to the pickup before this thing got out of range.

532

00:32:06,000 --> 00:32:08,000

It actually worked.

533

00:32:14,000 --> 00:32:15,000

Okay, go!

534

00:32:18,000 --> 00:32:21,000

It was a little gutsy, but hey, no guts, no glory.

535

00:32:24,000 --> 00:32:28,000

The only thing that was still working was the steering, and it turns out that's all we needed.

536

00:32:34,000 --> 00:32:36,000

Can you tell by adrenaline it's still pumping?

537

00:32:37,000 --> 00:32:39,000

Is everybody okay in here?

538

00:32:40,000 --> 00:32:42,000

Wow, it's like an action movie, dude.

539

00:32:43,000 --> 00:32:47,000

Yep, and this action movie myth, much like the bus, is busted.

540

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

So we've r-seed buses, cars, trucks.

541

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

I think it's time we r-seed a big military vehicle.

542

00:32:55,000 --> 00:32:56,000

How about an airplane?

543

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

Ha! Yes!

544

00:32:58,000 --> 00:32:59,000

Coming up...

545

00:32:59,000 --> 00:33:01,000

You guys are in perfect formation, everything's going beautifully.

546

00:33:01,000 --> 00:33:07,000

Adam and Jamie, after waiting three years, finally get to compact their compact.

547

00:33:07,000 --> 00:33:08,000

Damn it!

548

00:33:08,000 --> 00:33:10,000

Or do they?

549

00:33:18,000 --> 00:33:24,000

Up next is a ghost of seasons past, but this time bigger, better, and tastier?

550

00:33:25,000 --> 00:33:26,000

What's on the menu?

551

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

Oh, today, miss you, I have an explosive dish that sees a fusion between several elements,

552

00:33:32,000 --> 00:33:38,000

and it smells slightly of burnt motor oil and singe steel.

553

00:33:38,000 --> 00:33:40,000

I present to you the compact.

554

00:33:40,000 --> 00:33:41,000

Compact.

555

00:33:41,000 --> 00:33:45,000

Well, there were a few problems with first-mortem, so why wouldn't mind giving it another go?

556

00:33:45,000 --> 00:33:50,000

That is precisely the attitude that makes this dish delicious.

557

00:33:53,000 --> 00:33:57,000

This grisly, fatal fable is an all-time fan favorite.

558

00:33:57,000 --> 00:34:04,000

After two truck and trailers collide head-on on the highway, the resulting wreckage is supposedly fused together,

559

00:34:04,000 --> 00:34:07,000

hiding a pancake compact car.

560

00:34:09,000 --> 00:34:13,000

But back in season three, not a whole lot went right.

561

00:34:14,000 --> 00:34:15,000

Dude, oh no!

562

00:34:15,000 --> 00:34:19,000

There were runaway trucks, unilateral crashes,

563

00:34:19,000 --> 00:34:20,000

There goes the car.

564

00:34:23,000 --> 00:34:27,000

and crucially, a mist-timed compact impact.

565

00:34:30,000 --> 00:34:33,000

It wasn't quite right, but I don't think we can reset.

566

00:34:33,000 --> 00:34:37,000

Actually, despite it taking three years, yes we can.

567

00:34:40,000 --> 00:34:42,000

What exactly are we doing different this time?

568

00:34:42,000 --> 00:34:47,000

Well, the fans contend that last time we did this, we didn't get the fusion or pan-kicking we were looking for

569

00:34:47,000 --> 00:34:51,000

because of a couple of screw-ups on our part, the main one being timing,

570

00:34:51,000 --> 00:34:56,000

that the two semis did not hit our compact car at precisely the same moment.

571

00:34:56,000 --> 00:34:58,000

And they really should have been going faster.

572

00:34:58,000 --> 00:35:03,000

I mean, 35 miles an hour, we just need to tune things up a bit.

573

00:35:09,000 --> 00:35:10,000

Get started.

574

00:35:13,000 --> 00:35:17,000

Where these two old rust buckets, the trucks, not Adam and Jamie,

575

00:35:17,000 --> 00:35:20,000

are being prepped for their head-to-head.

576

00:35:25,000 --> 00:35:30,000

The guys will be using a similar setup from season three, so they're up and running quickly.

577

00:35:32,000 --> 00:35:39,000

To ensure a simultaneous hit on the car, the two semis will be towed by cables of exactly the same length.

578

00:35:40,000 --> 00:35:48,000

Plus, an additional set of pulleys will mean the tow trucks have all the room they need to pull the semis at highway speeds.

579

00:35:50,000 --> 00:35:54,000

And with the cable laid, and the trucks and trailers rigged.

580

00:35:57,000 --> 00:35:59,000

Hot damn, I love cutting steel.

581

00:36:00,000 --> 00:36:03,000

It's time to meet the meat in the sandwich.

582

00:36:04,000 --> 00:36:10,000

This is our compact car that's going to be even a little more compact in a little bit.

583

00:36:11,000 --> 00:36:16,000

And with the dead car driving dressed for its catastrophic date with two trucks,

584

00:36:17,000 --> 00:36:21,000

Jamie and Adam add our understandably reluctant drivers.

585

00:36:22,000 --> 00:36:26,000

Next, the tow trucks arrive, and once they're hooked into the system,

586

00:36:26,000 --> 00:36:29,000

this is the last link in the chains.

587

00:36:29,000 --> 00:36:30,000

That's it.

588

00:36:30,000 --> 00:36:31,000

The guys are almost done.

589

00:36:32,000 --> 00:36:35,000

But after a long day, tempers fray over the final detail.

590

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

The breakaway road.

591

00:36:37,000 --> 00:36:43,000

When everything crashes together, this snaps and keeps these guys from being errrrrrrrrp pulled up short.

592

00:36:43,000 --> 00:36:46,000

But if it's not strong enough, it may snap too early.

593

00:36:46,000 --> 00:36:48,000

And the semis become runaways.

594

00:36:49,000 --> 00:36:51,000

Jamie, I think this blue rub's going to hold just fine.

595

00:36:51,000 --> 00:36:53,000

I don't know. I think we should double it up.

596

00:36:54,000 --> 00:36:57,000

Alright, then it's on you. I don't want to, but if you want to do it.

597

00:36:57,000 --> 00:37:05,000

After an off-camera discussion, they decide not to double up, but to go with three rather than four lengths of rope.

598

00:37:05,000 --> 00:37:08,000

And once that's done, they're good to go.

599

00:37:08,000 --> 00:37:13,000

We have about a mile of cable. We've got two ancient trucks that are about to fall apart on their own.

600

00:37:13,000 --> 00:37:17,000

All right, Mark and KC, will you start your engines please?

601

00:37:17,000 --> 00:37:22,000

We've got rope, we've got pulleys, we've got shackles every which way.

602

00:37:22,000 --> 00:37:27,000

And somehow all of these things have to hit dead on at the same time.

603

00:37:27,000 --> 00:37:31,000

All right guys, let's start rolling nice and smooth at first and then the route we planned.

604

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

The probability of this actually happening, it's really kind of low when you think about it.

605

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

Three, two, one, go.

606

00:37:42,000 --> 00:37:45,000

Despite Jamie's pessimism, the early signs are good.

607

00:37:45,000 --> 00:37:48,000

You guys are in perfect formation, everything's going beautifully.

608

00:37:49,000 --> 00:37:54,000

But as it turns out, this experimental glass really is half empty.

609

00:37:54,000 --> 00:37:57,000

They're both running away.

610

00:37:57,000 --> 00:37:59,000

We have a runaway truck.

611

00:37:59,000 --> 00:38:04,000

Yes, the truck from the Alameda end of the runway is rolling away towards Frisco Bay.

612

00:38:04,000 --> 00:38:07,000

So it's going to go into the water.

613

00:38:07,000 --> 00:38:10,000

No, no, no, no, no, no, no, no, no, no, no, no, no, no, no, no, yes!

614

00:38:10,000 --> 00:38:13,000

Now that would have been an interesting call to the authorities.

615

00:38:13,000 --> 00:38:15,000

Damn it!

616

00:38:15,000 --> 00:38:18,000

The San Francisco track doesn't flirt with the same level of disaster.

617

00:38:18,000 --> 00:38:21,000

It simply destroys a chain-link fence.

618

00:38:21,000 --> 00:38:23,000

The rope went, it's the rope went.

619

00:38:23,000 --> 00:38:25,000

Well Jamie, looks like you were right.

620

00:38:25,000 --> 00:38:27,000

Let's go tie more rope.

621

00:38:27,000 --> 00:38:30,000

Yep, it was the breakaway rope all right.

622

00:38:30,000 --> 00:38:34,000

And in a show of professionalism, Jamie resists the urge to say,

623

00:38:34,000 --> 00:38:37,000

I told you so, at least out loud.

624

00:38:37,000 --> 00:38:42,000

The weakest link in this chain was the breakaway rope and that's what we wanted it to be.

625

00:38:42,000 --> 00:38:45,000

Now, exactly how strong does that have to be?

626

00:38:45,000 --> 00:38:52,000

It's really kind of a, it's a guess and we guessed wrong.

627

00:38:52,000 --> 00:38:54,000

We need to put more rope on there.

628

00:38:54,000 --> 00:38:55,000

No, no.

629

00:38:55,000 --> 00:39:00,000

All jokes aside, the guys get into salvage mode to assess and fix the damage.

630

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

Hey Jamie, the steering rig on this one needs repair too.

631

00:39:04,000 --> 00:39:10,000

And like the well-lubricated team they are, they soon have both trucks ready for another run.

632

00:39:10,000 --> 00:39:12,000

And the light beats them to it.

633

00:39:12,000 --> 00:39:15,000

It's good, isn't it pretty? Let's go.

634

00:39:15,000 --> 00:39:17,000

It's too late, it's too dark.

635

00:39:17,000 --> 00:39:20,000

No high speed, no truck crash.

636

00:39:20,000 --> 00:39:22,000

We're going to have to do it early tomorrow morning.

637

00:39:22,000 --> 00:39:23,000

All right, next.

638

00:39:23,000 --> 00:39:26,000

If I was a different kind of person, I'd hug you right now.

639

00:39:26,000 --> 00:39:30,000

See what caused Adam's post-crash crush.

640

00:39:31,000 --> 00:39:36,000

Go!

641

00:39:36,000 --> 00:39:43,000

Carrie Grant and Tori are taking on a tall tale from the world of advertising.

642

00:39:43,000 --> 00:39:50,000

They're asking, does the science in a popular car commercial stack up in the real world?

643

00:39:50,000 --> 00:39:55,000

Will the car dropped from the sky fall flat and accurately?

644

00:39:55,000 --> 00:40:03,000

And will the car on the ground beat the falling car in a race over 4,000 feet?

645

00:40:03,000 --> 00:40:08,000

But so far it's not looking good.

646

00:40:08,000 --> 00:40:11,000

Do you see how it went nose down?

647

00:40:11,000 --> 00:40:15,000

It turns out falling cars don't fall flat like they do on film.

648

00:40:15,000 --> 00:40:17,000

At least this one didn't.

649

00:40:17,000 --> 00:40:20,000

Now what we're going to do is take up another car over 400 feet, drop it again.

650

00:40:20,000 --> 00:40:22,000

This way we have a bigger sample size.

651

00:40:22,000 --> 00:40:24,000

Let's take it up.

652

00:40:24,000 --> 00:40:28,000

I know it seems a little gratuitous, but I mean it's for science, so it's worth it.

653

00:40:28,000 --> 00:40:33,000

Here we go. In three, two, one, go!

654

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

Look at the car!

655

00:40:44,000 --> 00:40:48,000

Once again, it was a four-wheeled nose diving missile,

656

00:40:48,000 --> 00:40:52,000

with no hint of a flat flight from the commercial.

657

00:40:54,000 --> 00:40:56,000

Which has got the guys thinking.

658

00:40:56,000 --> 00:41:00,000

Maybe they need to match the myth more accurately.

659

00:41:00,000 --> 00:41:03,000

So we're wondering what did the car's fall nose first?

660

00:41:03,000 --> 00:41:08,000

Well, as it turns out, most of the cars that are at the budget end of the spectrum,

661

00:41:08,000 --> 00:41:13,000

the kind that we can afford to drop from a crane, have most of their weight front of center.

662

00:41:13,000 --> 00:41:17,000

So it actually makes sense that they'll fall nose first.

663

00:41:19,000 --> 00:41:21,000

Look at that!

664

00:41:21,000 --> 00:41:23,000

But this isn't busted yet.

665

00:41:23,000 --> 00:41:28,000

Luxury cars, like the ones in the commercial, have a 50-50 even weight distribution.

666

00:41:28,000 --> 00:41:30,000

Now they're engineered that way to give you a smoother ride.

667

00:41:30,000 --> 00:41:33,000

The clunkers we're dropping are more like 60-40.

668

00:41:33,000 --> 00:41:38,000

So maybe if we have a 50-50 even weight distribution, we'll get a nice flat fall.

669

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

That looks good. It looks really good.

670

00:41:41,000 --> 00:41:44,000

What the team have done is load this car's trunk with enough junk

671

00:41:44,000 --> 00:41:48,000

to give it the same balance as the luxury model in the myth.

672

00:41:48,000 --> 00:41:52,000

Three, two, one, go!

673

00:41:55,000 --> 00:41:57,000

Oh my God!

674

00:42:00,000 --> 00:42:02,000

That was so loud!

675

00:42:02,000 --> 00:42:04,000

That was great!

676

00:42:04,000 --> 00:42:06,000

It was perfect!

677

00:42:06,000 --> 00:42:08,000

Did you feel the shock wave?

678

00:42:08,000 --> 00:42:09,000

Yes!

679

00:42:09,000 --> 00:42:10,000

Go!

680

00:42:10,000 --> 00:42:12,000

This drop couldn't have gone smoother.

681

00:42:12,000 --> 00:42:17,000

We dropped a car with 50-50 weight distribution and it fell completely horizontal.

682

00:42:19,000 --> 00:42:25,000

Now that doesn't mean when we drop it from a helicopter at 4,000 feet that's going to happen.

683

00:42:25,000 --> 00:42:29,000

But at least so far the myth is looking pretty good.

684

00:42:29,000 --> 00:42:32,000

There might be some truth in this one.

685

00:42:32,000 --> 00:42:33,000

Okay, so what's next?

686

00:42:33,000 --> 00:42:34,000

Full scale it is.

687

00:42:34,000 --> 00:42:37,000

Yep, let's get out to the desert and start dropping cars from the helicopter.

688

00:42:37,000 --> 00:42:41,000

Well first we need to find two luxury cars that are balanced just like the ones in the commercial

689

00:42:41,000 --> 00:42:43,000

because we've seen how crucial that is.

690

00:42:43,000 --> 00:42:46,000

Right, because if the falling car doesn't fall flat like it does in the ad,

691

00:42:46,000 --> 00:42:51,000

it'll have less drag and it could fall quicker, which would be bad news for the myth.

692

00:42:51,000 --> 00:42:55,000

Right, and we also have a lot of work to do on the ground car to remote control it.

693

00:42:55,000 --> 00:42:57,000

What? You mean I don't get to drive this car?

694

00:42:57,000 --> 00:42:58,000

Nope.

695

00:42:58,000 --> 00:43:04,000

To do this safely the car will be in the remote control hands of Grant, our resident joystick junkie.

696

00:43:04,000 --> 00:43:06,000

He's starting to move up in the world.

697

00:43:06,000 --> 00:43:08,000

I do love a luxury car!

698

00:43:09,000 --> 00:43:13,000

In order to get the car to the X, I only need three controls.

699

00:43:13,000 --> 00:43:17,000

One, steering, obviously, just to make sure you get to the X.

700

00:43:17,000 --> 00:43:19,000

He's nice to come up with just a hair.

701

00:43:19,000 --> 00:43:22,000

Two, throttle, to make sure I'm going the right speed.

702

00:43:22,000 --> 00:43:23,000

Ha ha!

703

00:43:23,000 --> 00:43:24,000

Perfect.

704

00:43:24,000 --> 00:43:26,000

And finally, brake.

705

00:43:26,000 --> 00:43:32,000

So with Grant's fake feet fitting like a glove and his robo hands pointing in the right direction,

706

00:43:32,000 --> 00:43:36,000

the next step is to get eyes on the prize.

707

00:43:36,000 --> 00:43:38,000

Now another big challenge is getting to the X.

708

00:43:38,000 --> 00:43:41,000

Remember, I'm not going to be anywhere near this car.

709

00:43:41,000 --> 00:43:46,000

I'm going to be over 4,000 feet away, so I won't be able to see where the car is going.

710

00:43:46,000 --> 00:43:48,000

Hey, it looked taller on TV.

711

00:43:48,000 --> 00:43:52,000

That's why I've got a small camera that's going to be mounted to the hood.

712

00:43:52,000 --> 00:43:57,000

And that's going to transmit a signal to wherever I am controlling the car.

713

00:43:57,000 --> 00:44:04,000

And that camera is going to look at a line that we're going to carve in the desert that leads all

the way to the X.

714

00:44:05,000 --> 00:44:09,000

The remote controls aren't the only gadgets Grant's been geeking out over.

715

00:44:09,000 --> 00:44:17,000

He's also brought in the guys from Duotron to make sure the drop car is balanced exactly like the one in the commercial,

716

00:44:17,000 --> 00:44:22,000

which is achieved after Tori adds a little extra trunk junk.

717

00:44:22,000 --> 00:44:25,000

There's one way to get back at your X.

718

00:44:25,000 --> 00:44:32,000

Then with Grant fitting a long range radio unit, the final piece of the RC puzzle is in place.

719

00:44:32,000 --> 00:44:37,000

And the guys are ready to hit the desert and plunge into a Mythbuster history.

720

00:44:44,000 --> 00:44:49,000

Adam and Jamie have been waiting for three years to revise and supersize.

721

00:44:49,000 --> 00:44:51,000

They're going to go into the water.

722

00:44:51,000 --> 00:44:55,000

No, no, yes!

723

00:44:55,000 --> 00:44:58,000

The myth of the compact compact.

724

00:44:58,000 --> 00:45:01,000

But so far, it ain't looking good.

725

00:45:01,000 --> 00:45:05,000

Well, you know what I always say, failure is always an option.

726

00:45:05,000 --> 00:45:10,000

Our two trucks decided to go sightseeing yesterday, but we've got them back on the line.

727

00:45:10,000 --> 00:45:15,000

They're back and ready for duty, and in a few minutes, we're going to try the smashy-smashy again.

728

00:45:15,000 --> 00:45:20,000

And while Jamie ensures their breakaway rope doesn't break away prematurely,

729

00:45:20,000 --> 00:45:24,000

Adam makes an installation piece of his favorite model.

730

00:45:24,000 --> 00:45:29,000

Well, this may look like a half a sentence.

731

00:45:29,000 --> 00:45:34,000

In fact, I've written the other half of this sentence a mile away,

732

00:45:34,000 --> 00:45:44,000

and yet for a fleeting second, this sentence will be home to the ultimate destruction of the

concept.

733

00:45:44,000 --> 00:45:47,000

It's mind-blowing!

734

00:45:47,000 --> 00:45:53,000

We have been trying to determine if two semi-tractor trailers hit each other head-on at highway speeds,

735

00:45:53,000 --> 00:45:55,000

and there happens to be a car between them.

736

00:45:55,000 --> 00:45:58,000

Will they one, smash that car as flat as a pancake?

737

00:45:58,000 --> 00:46:01,000

True, this is not a drill. We are going to go.

738

00:46:01,000 --> 00:46:05,000

And two, become fused together so that they cannot be separated.

739

00:46:05,000 --> 00:46:12,000

Tow trucks on my mark start rolling in three, two, one, roll.

740

00:46:12,000 --> 00:46:14,000

And away they go.

741

00:46:14,000 --> 00:46:17,000

We tried this three years ago, and we kind of succeeded.

742

00:46:17,000 --> 00:46:20,000

We tried it yesterday, and we pretty much failed today.

743

00:46:20,000 --> 00:46:24,000

We're hoping to answer this question once and for all.

744

00:46:24,000 --> 00:46:26,400

Come on, come on, come on, jump to papa.

745

00:46:26,400 --> 00:46:30,040

At 1,000 feet from impact, they hit 20 miles per hour.

746

00:46:30,040 --> 00:46:32,920

And there's no snapping, braking, or shearing

747

00:46:32,920 --> 00:46:34,840

of ropes or cables.

748

00:46:34,840 --> 00:46:36,280

Far so good.

749

00:46:36,280 --> 00:46:39,600

40 miles per hour and 250 feet.

750

00:46:39,600 --> 00:46:41,080

Here we go.

751

00:46:41,080 --> 00:46:42,920

Well, this is definitely the point of no recovery.

752

00:46:42,920 --> 00:46:43,880

They're going too fast.

753

00:46:43,880 --> 00:46:44,780

Yeah.

754

00:46:44,780 --> 00:46:48,240

Oh, it's going to work.

755

00:46:48,240 --> 00:46:49,560

Are they going to hit at the same time?

756

00:46:54,680 --> 00:46:55,180

Wow.

757

00:47:03,000 --> 00:47:04,920

That was a magnificent test, everyone.

758

00:47:04,920 --> 00:47:06,760

That worked freaking perfectly.

759

00:47:10,440 --> 00:47:13,280

If I was a different kind of person, I'd hug you right now.

760

00:47:13,280 --> 00:47:17,320

The relief of finally pulling it off is obvious.

761

00:47:17,320 --> 00:47:20,560

And the immediate signs from their distant vantage point

762

00:47:20,560 --> 00:47:22,400

are looking good for the myth.

763

00:47:22,400 --> 00:47:26,520

The timing at full speed looked perfect.

764

00:47:26,520 --> 00:47:29,120

The trucks appear to be smooshed into one.

765

00:47:29,120 --> 00:47:31,040

And there's no sign of the car.

766

00:47:34,920 --> 00:47:36,800

All right, let's go look at the carnage.

767

00:47:36,800 --> 00:47:38,240

OK.

768

00:47:38,240 --> 00:47:41,160

Later, this is going to be nuts.

769

00:47:41,160 --> 00:47:43,880

It's car drop chaos in the desert.

770

00:47:43,880 --> 00:47:48,080

But first, there's more crash-esque clichés.

771

00:47:48,080 --> 00:47:49,160

Crash is an empire.

772

00:47:49,160 --> 00:47:51,040

This is awesome.

773

00:47:52,760 --> 00:47:55,200

Do not try what you're about to see at home.

774

00:47:55,200 --> 00:47:56,800

We consult with experts.

775

00:47:56,800 --> 00:47:58,120

We take every precaution.

776

00:47:58,120 --> 00:48:00,680

And we have years of experience in dangerous situations.

777

00:48:06,920 --> 00:48:10,360

Before Carrie granted Tori D-Mob to the desert

778

00:48:10,360 --> 00:48:14,080

for car drop chaos, they've got two more Hollywood crash

779

00:48:14,080 --> 00:48:16,000

tests.

780

00:48:16,000 --> 00:48:18,520

That was so Hollywood.

781

00:48:18,520 --> 00:48:21,840

Next, they test a scene from one of Tori's favorite movies.

782

00:48:22,400 --> 00:48:24,280

Mad Max.

783

00:48:24,280 --> 00:48:26,640

As an RV stalls across the highway,

784

00:48:26,640 --> 00:48:29,440

a cop car punches clean through it,

785

00:48:29,440 --> 00:48:33,880

able to continue its high-speed pursuit.

786

00:48:33,880 --> 00:48:35,640

Now, I don't want to call Grant a prima donna,

787

00:48:35,640 --> 00:48:38,480

but he's been asking for a trailer for a long time.

788

00:48:38,480 --> 00:48:39,560

Stop.

789

00:48:39,560 --> 00:48:41,960

Now I can finally say, I'll be in my trailer.

790

00:48:41,960 --> 00:48:43,400

You better enjoy it, because he's not

791

00:48:43,400 --> 00:48:44,280

going to have it for long.

792

00:48:49,200 --> 00:48:51,640

With all these myths, we're looking for two things.

793

00:48:51,640 --> 00:48:54,800

We want to see if, in fact, these crashes do look like they

794

00:48:54,800 --> 00:48:56,200

do in the Hollywood movies.

795

00:48:56,200 --> 00:48:58,600

And after they're done crashing through whatever it is

796

00:48:58,600 --> 00:48:59,760

we're going to crash them through,

797

00:48:59,760 --> 00:49:03,400

will they continue to run like they do in the movies?

798

00:49:03,400 --> 00:49:06,760

Mr. Imahar, you're wanted on set.

799

00:49:06,760 --> 00:49:09,120

Grant?

800

00:49:09,120 --> 00:49:10,120

Grant?

801

00:49:10,120 --> 00:49:12,960

God, I did not want to see that.

802

00:49:12,960 --> 00:49:14,840

This is trailer destruction.

803

00:49:14,840 --> 00:49:19,640

In three, two, one, hit it.

804

00:49:19,640 --> 00:49:23,640

10, 20, 30, 40.

805

00:49:23,640 --> 00:49:24,640

Here it comes.

806

00:49:24,640 --> 00:49:25,640

You hit it.

807

00:49:25,640 --> 00:49:27,640

60, 70 miles an hour.

808

00:49:27,640 --> 00:49:28,640

Woo!

809

00:49:30,640 --> 00:49:32,640

My trailer!

810

00:49:32,640 --> 00:49:33,640

Yeah!

811

00:49:33,640 --> 00:49:34,640

Ha-ha!

812

00:49:37,640 --> 00:49:39,640

Yeah, there was nothing Hollywood about that.

813

00:49:39,640 --> 00:49:42,640

That was simply a car wreck.

814

00:49:42,640 --> 00:49:45,640

We completely destroyed that trailer.

815

00:49:45,640 --> 00:49:46,640

There was no hole punch.

816

00:49:46,640 --> 00:49:48,640

It was goodbye to the trailer.

817

00:49:48,640 --> 00:49:49,640

Oh!

818

00:49:49,640 --> 00:49:50,640

It is pretty flat.

819

00:49:50,640 --> 00:49:53,640

That's why we can never have anything nice.

820

00:49:53,640 --> 00:49:54,640

Don't worry, buddy.

821

00:49:54,640 --> 00:49:55,640

We'll put it back together.

822

00:49:55,640 --> 00:49:59,640

The trailer is trashed, and the conclusions are quick to follow.

823

00:49:59,640 --> 00:50:03,640

That was a very spectacular crash, but it wasn't like in the movie

824

00:50:03,640 --> 00:50:06,640

where they just punch a clean hole through and keep going.

825

00:50:06,640 --> 00:50:09,640

And the car, it's not drive-thru.

826

00:50:09,640 --> 00:50:12,640

And they're definitely not continuing their chase.

827

00:50:12,640 --> 00:50:13,640

Woo!

828

00:50:13,640 --> 00:50:14,640

Woo!

829

00:50:14,640 --> 00:50:16,640

That was awesome.

830

00:50:16,640 --> 00:50:20,640

The car hit the chassis, and the trailer pretty much disappeared.

831

00:50:22,640 --> 00:50:24,640

But this myth is busted on both accounts.

832

00:50:24,640 --> 00:50:27,640

Not only did it not look like the Hollywood stunt,

833

00:50:29,640 --> 00:50:32,640

but the car was not drivable after the crash.

834

00:50:32,640 --> 00:50:34,640

So, busted on both accounts.

835

00:50:34,640 --> 00:50:35,640

Wow!

836

00:50:35,640 --> 00:50:36,640

Wow!

837

00:50:36,640 --> 00:50:38,640

Just about sums it up.

838

00:50:38,640 --> 00:50:42,640

Because the guys have succeeded at what has to be one of the trickiest tests

839

00:50:42,640 --> 00:50:44,640

in mythbuster history.

840

00:50:46,640 --> 00:50:51,640

From a mile apart, they've managed to smash two semi-trucks head-on.

841

00:50:53,640 --> 00:50:55,640

And the car is going to be a mess.

842

00:50:55,640 --> 00:50:57,640

It's going to be a mess.

843

00:50:57,640 --> 00:50:59,640

It's going to be a mess.

844

00:50:59,640 --> 00:51:01,640

It's going to be a mess.

845

00:51:01,640 --> 00:51:04,640

One of the tricks is to smash two semi-trucks head-on.

846

00:51:04,640 --> 00:51:06,640

Let's go look at the carnage.

847

00:51:06,640 --> 00:51:07,640

Okay.

848

00:51:07,640 --> 00:51:10,640

And hit simultaneously from either end, what is now...

849

00:51:10,640 --> 00:51:13,640

Ha ha ha ha ha ha ha ha!

850

00:51:13,640 --> 00:51:15,640

a very compact compact.

851

00:51:15,640 --> 00:51:16,640

Ha ha ha ha!

852

00:51:16,640 --> 00:51:18,640

Ha, the airbag went off.

853

00:51:18,640 --> 00:51:20,640

Ha ha ha ha ha ha ha!

854

00:51:20,640 --> 00:51:22,640

It's shorter.

855

00:51:22,640 --> 00:51:23,640

Wow!

856

00:51:23,640 --> 00:51:26,640

Yep, that's some serious car carnage.

857

00:51:26,640 --> 00:51:28,640

But after the shock wears off...

858

00:51:28,640 --> 00:51:30,640

Oh my God, look, it's buster.

859

00:51:30,640 --> 00:51:32,640

Ha ha ha ha ha ha!

860

00:51:32,640 --> 00:51:34,640

The serious analysis can begin.

861

00:51:34,640 --> 00:51:37,640

The high-speed camera shows us that both trucks were traveling

862

00:51:37,640 --> 00:51:40,640

at about 50 miles an hour when the impact occurred.

863

00:51:40,640 --> 00:51:44,640

Now that's equivalent to a single impact going into a solid wall

864

00:51:44,640 --> 00:51:46,640

at 100 miles an hour.

865

00:51:46,640 --> 00:51:48,640

That's a heck of an impact.

866

00:51:48,640 --> 00:51:51,640

And in case you don't believe that, we're in one truck.

867

00:51:51,640 --> 00:51:54,640

That's the cab of the other truck.

868

00:51:54,640 --> 00:51:56,640

Think about it.

869

00:51:56,640 --> 00:51:59,640

So the first of the fans' concerns has been fulfilled.

870

00:52:01,640 --> 00:52:03,640

This is just a shock.

871

00:52:03,640 --> 00:52:06,640

The trucks were traveling at highway speeds

872

00:52:06,640 --> 00:52:08,640

just over 50 miles per hour.

873

00:52:08,640 --> 00:52:11,640

It's clear they hit pretty square on the back and front,

874

00:52:11,640 --> 00:52:15,640

but that when everything had to move in some direction,

875

00:52:15,640 --> 00:52:18,640

this squeezed out and spun around.

876

00:52:23,640 --> 00:52:26,640

And the reality is to expect a couple of vehicles like this

877

00:52:26,640 --> 00:52:29,640

to accordion straight on and square

878

00:52:29,640 --> 00:52:32,640

and not slide off to one side or the other.

879

00:52:32,640 --> 00:52:34,640

That's a one in a billion chance.

880

00:52:34,640 --> 00:52:37,640

I mean, you've got pivots, you've got all sorts of mass

881

00:52:37,640 --> 00:52:40,640

that is flying, it just wouldn't happen.

882

00:52:40,640 --> 00:52:43,640

So no hidden pancake compact.

883

00:52:43,640 --> 00:52:46,640

And as for part two of the equation...

884

00:52:46,640 --> 00:52:50,640

There was a heck of a lot of energy in that impact, but no fusion.

885

00:52:50,640 --> 00:52:54,640

Yep, it's a big old mess with truck parts where they shouldn't be.

886

00:52:54,640 --> 00:52:58,640

But like Jamie said, there's no sign of the mythical fusion.

887

00:52:58,640 --> 00:53:00,640

It doesn't get any neater than that.

888

00:53:00,640 --> 00:53:03,640

I mean, we increased our speed over the first time we tried this experiment

889

00:53:03,640 --> 00:53:06,640

by 35% and we got a perfect head-on collision.

890

00:53:06,640 --> 00:53:10,640

It's not really the word I'd use, but the trucks aren't fused together.

891

00:53:10,640 --> 00:53:14,640

I still see the car not looking too good for the myth.

892

00:53:14,640 --> 00:53:15,640

No, it's not.

893

00:53:15,640 --> 00:53:17,640

So like our reluctant truck drivers,

894

00:53:17,640 --> 00:53:20,640

the myth is looking battered, bruised and broken.

895

00:53:20,640 --> 00:53:23,640

But the guys aren't ready to call it just yet.

896

00:53:23,640 --> 00:53:29,640

After all, this story didn't get the super-sized epithet for nothing.

897

00:53:29,640 --> 00:53:32,640

You know, even with all the explosives and guns and stuff we play with,

898

00:53:32,640 --> 00:53:34,640

what frightens me the most?

899

00:53:34,640 --> 00:53:35,640

No, what?

900

00:53:35,640 --> 00:53:37,640

Going on the highway.

901

00:53:37,640 --> 00:53:40,640

And everybody does it.

902

00:53:40,640 --> 00:53:42,640

After the break...

903

00:53:42,640 --> 00:53:43,640

Uh-oh.

904

00:53:43,640 --> 00:53:46,640

In-steep convertible and distant drama.

905

00:53:46,640 --> 00:53:47,640

Oh my God.

906

00:53:47,640 --> 00:53:49,640

Dang, that was crazy.

907

00:53:49,640 --> 00:53:53,640

Then Adam and Jamie find their new favorite location.

908

00:53:53,640 --> 00:53:54,640

What do they use it for?

909

00:53:54,640 --> 00:53:59,640

High-velocity testing of warheads, penetrators, explosive devices, that kind of stuff.

910

00:53:59,640 --> 00:54:01,640

Ha ha ha.

911

00:54:07,640 --> 00:54:11,640

Carrie Grant and Tori have already tested three crash cliches.

912

00:54:12,640 --> 00:54:18,640

The fourth and final test involves an unwanted car improvement.

913

00:54:18,640 --> 00:54:21,640

The classic instant convertible.

914

00:54:21,640 --> 00:54:24,640

I've seen this crash a million times on TV shows and new movies.

915

00:54:24,640 --> 00:54:28,640

Car chase is happening, semi-truck comes across the intersection at just the wrong time,

916

00:54:28,640 --> 00:54:31,640

cars are about to crean into it, but everybody ducks.

917

00:54:31,640 --> 00:54:35,640

They get back up after the car's gone out the other side and now they're in a convertible.

918

00:54:35,640 --> 00:54:39,640

So once again, what we're looking for is does it look like it does in the movies?

919

00:54:39,640 --> 00:54:40,640

Stop, stop.

920

00:54:40,640 --> 00:54:43,640

A clean slice all the way across.

921

00:54:43,640 --> 00:54:45,640

And second, is the car drivable?

922

00:54:45,640 --> 00:54:47,640

Could they continue the chase?

923

00:54:47,640 --> 00:54:48,640

A little more.

924

00:54:48,640 --> 00:54:52,640

If neither of those things is working, then it's buster.

925

00:54:52,640 --> 00:54:53,640

Park it.

926

00:54:55,640 --> 00:54:57,640

And with everyone...

927

00:54:57,640 --> 00:54:58,640

Get in it.

928

00:54:58,640 --> 00:55:05,640

Including an unfortunate buster in position the final filmic fender bender can get underway.

929

00:55:05,640 --> 00:55:08,640

10, 20, 30.

930

00:55:09,640 --> 00:55:13,640

50 miles an hour, 60.

931

00:55:13,640 --> 00:55:16,640

And 70.

932

00:55:16,640 --> 00:55:17,640

Woo!

933

00:55:17,640 --> 00:55:18,640

Oh!

934

00:55:18,640 --> 00:55:19,640

Oh!

935

00:55:19,640 --> 00:55:20,640

Oh!

936

00:55:20,640 --> 00:55:21,640

Oh!

937

00:55:21,640 --> 00:55:22,640

Oh!

938

00:55:22,640 --> 00:55:23,640

Oh!

939

00:55:23,640 --> 00:55:24,640

Oh!

940

00:55:24,640 --> 00:55:25,640

Oh!

941

00:55:25,640 --> 00:55:28,640

What's on the other side of that berm?

942

00:55:28,640 --> 00:55:29,640

Uh-oh.

943

00:55:30,640 --> 00:55:32,640

Uh-oh, indeed.

944

00:55:32,640 --> 00:55:36,640

The remote braking system fitted for each test seems to have failed.

945

00:55:36,640 --> 00:55:37,640

Oh!

946

00:55:37,640 --> 00:55:38,640

Oh!

947

00:55:38,640 --> 00:55:39,640

Oh!

948

00:55:39,640 --> 00:55:40,640

Oh!

949

00:55:43,640 --> 00:55:44,640

Oh, my God.

950

00:55:44,640 --> 00:55:45,640

Oh, my God.

951

00:55:45,640 --> 00:55:47,640

Dang, that was crazy.

952

00:55:47,640 --> 00:55:48,640

Look at the roof.

953

00:55:48,640 --> 00:55:50,640

The roof's underneath the truck.

954

00:55:50,640 --> 00:55:52,640

I know, it turned into a convertible.

955

00:55:52,640 --> 00:55:55,640

I can't believe it jumped the berm.

956

00:55:56,640 --> 00:56:03,640

And if we slow down the shot, you can see the car launch up the dirt bank and into the wild blue yonder.

957

00:56:04,640 --> 00:56:09,640

But luckily there was no one to hurt and nothing to damage back there.

958

00:56:09,640 --> 00:56:10,640

Oh, my God.

959

00:56:10,640 --> 00:56:12,640

That is a convertible.

960

00:56:12,640 --> 00:56:13,640

It worked.

961

00:56:13,640 --> 00:56:15,640

And with the relief comes the results.

962

00:56:15,640 --> 00:56:16,640

Oh, my God.

963

00:56:16,640 --> 00:56:17,640

Oh, my God.

964

00:56:17,640 --> 00:56:19,640

It ripped the roof right off.

965

00:56:19,640 --> 00:56:21,640

I gotta say, that's pretty good.

966

00:56:21,640 --> 00:56:24,640

It looked like it kept driving and it turned into an instant convertible.

967

00:56:24,640 --> 00:56:27,640

And he looks like he's all right down in there.

968

00:56:28,640 --> 00:56:31,640

Any doubt is dispelled with a look at the footage.

969

00:56:31,640 --> 00:56:33,640

They did indeed have an instant convertible.

970

00:56:33,640 --> 00:56:40,640

And for an instant, it appeared to be drivable, at least judging by the speed it was going.

971

00:56:41,640 --> 00:56:42,640

Plausible.

972

00:56:42,640 --> 00:56:43,640

Plausible.

973

00:56:43,640 --> 00:56:44,640

Plausible.

974

00:56:44,640 --> 00:56:46,640

Now how the hell are we going to get this car out of here?

975

00:56:46,640 --> 00:56:48,640

We just throw it back over the fence.

976

00:56:53,640 --> 00:56:55,640

Look at that perfect timing.

977

00:56:55,640 --> 00:56:58,640

They hit the car at the same millisecond.

978

00:56:58,640 --> 00:57:00,640

At highway speeds.

979

00:57:00,640 --> 00:57:03,640

I don't see any pancaking and I don't see any fusion.

980

00:57:03,640 --> 00:57:09,640

Well, those are the circumstances in myth, but we need to know what it would take to achieve pancaking and fusion.

981

00:57:09,640 --> 00:57:14,640

I'm kind of at a loss to figure out how to amp this up to the next level, man.

982

00:57:14,640 --> 00:57:15,640

Rockets.

983

00:57:15,640 --> 00:57:17,640

Have you got a place to do this with rockets?

984

00:57:17,640 --> 00:57:19,640

Yep, I got exactly the place.

985

00:57:19,640 --> 00:57:20,640

We got plenty of room.

986

00:57:20,640 --> 00:57:23,640

Everything we need to do the job, New Mexico Tech.

987

00:57:23,640 --> 00:57:24,640

I'm in.

988

00:57:24,640 --> 00:57:25,640

Let's do it.

989

00:57:25,640 --> 00:57:33,640

The energetic materials research and testing center is quite simply a big boom center of excellence.

990

00:57:33,640 --> 00:57:36,640

And here's a sentence you don't hear every day.

991

00:57:36,640 --> 00:57:38,640

After a quick hands-on tour.

992

00:57:39,640 --> 00:57:40,640

We've got to get one of these.

993

00:57:40,640 --> 00:57:45,640

Jamie and Adam get stuck in preparing two rocket powered sleds.

994

00:57:45,640 --> 00:57:49,640

And here's Adam to tell us exactly how it'll work.

995

00:57:49,640 --> 00:57:57,640

So our soon to be compact compact will be resting against a one inch thick steel plate representing the first of the two trucks.

996

00:57:57,640 --> 00:58:02,640

The second truck will be pushed along a track by the two rocket powered sleds.

997

00:58:02,640 --> 00:58:07,640

The first sled or stage will launch with about 75,000 pounds of thrust.

998

00:58:07,640 --> 00:58:11,640

And by the time it gets to the halfway point, we'll be traveling at almost 400 miles per hour.

999

00:58:11,640 --> 00:58:14,640

At that point, the second stage will fire.

1000

00:58:14,640 --> 00:58:19,640

And when it smashes into the car, it will be going on the 700 miles per hour.

1001

00:58:21,640 --> 00:58:27,640

And with both sleds prepped, the team heads up to the straight track rocket roller coaster.

1002

00:58:27,640 --> 00:58:31,640

Where you could say the boys are excited.

1003

00:58:31,640 --> 00:58:32,640

This is amazing.

1004

00:58:32,640 --> 00:58:36,640

Where else are we going to find an empire state building size piece of track?

1005

00:58:36,640 --> 00:58:38,640

What is this track, about a thousand feet?

1006

00:58:38,640 --> 00:58:39,640

Yep.

1007

00:58:39,640 --> 00:58:41,640

It's at the speed of sound.

1008

00:58:41,640 --> 00:58:43,640

With the site surveyed, the guys go to work.

1009

00:58:43,640 --> 00:58:46,640

First, they slide both sleds onto the track.

1010

00:58:46,640 --> 00:58:48,640

There we go.

1011

00:58:48,640 --> 00:58:49,640

That's good.

1012

00:58:49,640 --> 00:58:51,640

Oh, you don't want to help?

1013

00:58:51,640 --> 00:58:59,640

Then they dress the impact zone and compact to be compacted with the all important grid reference for the high speed camera.

1014

00:58:59,640 --> 00:59:01,640

Everything gets stripes.

1015

00:59:01,640 --> 00:59:02,640

It's all data.

1016

00:59:03,640 --> 00:59:08,640

Next, the steel plates playing the part of the trucks get into costume.

1017

00:59:08,640 --> 00:59:11,640

I know everything's got to be a part twisted metal in a few minutes.

1018

00:59:11,640 --> 00:59:12,640

I'm not stupid.

1019

00:59:12,640 --> 00:59:13,640

You think I'm stupid?

1020

00:59:13,640 --> 00:59:14,640

Good.

1021

00:59:14,640 --> 00:59:15,640

That's perfect.

1022

00:59:15,640 --> 00:59:21,640

I think that even inanimate objects need a motivation, which is why I've drawn a truck on either side of the equation

1023

00:59:21,640 --> 00:59:25,640

so that the car knows what's coming.

1024

00:59:25,640 --> 00:59:28,640

Last but not least, the rockets.

1025

00:59:28,640 --> 00:59:30,640

So this is the five inch H-Var motor.

1026

00:59:30,640 --> 00:59:33,640

This one is probably about 55 years old.

1027

00:59:33,640 --> 00:59:40,640

And if you take a whiff, there's nothing like the smell of rocket propellant in the morning.

1028

00:59:40,640 --> 00:59:42,640

I knew you were going there.

1029

00:59:42,640 --> 00:59:50,640

Each of these rocket sleds will have 12 of these five inch H-Var rockets, which stands for high

velocity aircraft rockets.

1030

00:59:50,640 --> 00:59:53,640

They're Korean war vintage rockets.

1031

00:59:53,640 --> 00:59:57,640

They put out about 6,300 pounds of thrust each.

1032

00:59:57,640 --> 00:59:59,640

And each one weighs about 80 pounds.

1033

00:59:59,640 --> 01:00:05,640

At their peak on a sled, they'll put out 75,000 pounds of thrust.

1034

01:00:05,640 --> 01:00:09,640

So what's the point of all this besides the pure raw fun of it?

1035

01:00:09,640 --> 01:00:14,640

Well, we determined in the field with the two actual trucks that we didn't get a pancake to car.

1036

01:00:14,640 --> 01:00:19,640

Now we are throwing everything we can at getting a pancake to car.

1037

01:00:19,640 --> 01:00:21,640

If this doesn't pancake it, nothing will.

1038

01:00:21,640 --> 01:00:22,640

We're all wired up.

1039

01:00:22,640 --> 01:00:23,640

It's time to leave, huh?

1040

01:00:23,640 --> 01:00:24,640

Let's go get in the bunker.

1041

01:00:24,640 --> 01:00:26,640

All right.

1042

01:00:27,640 --> 01:00:31,640

This thing over here is where we're going to be when the rocket sled fires.

1043

01:00:31,640 --> 01:00:34,640

Because what's going on there is basically like an explosion.

1044

01:00:34,640 --> 01:00:36,640

It's just a little slower.

1045

01:00:36,640 --> 01:00:39,640

In fact, it might even explode for all we know.

1046

01:00:40,640 --> 01:00:47,640

This is compact, compact rocket sled in three, two, one.

1047

01:00:48,640 --> 01:00:54,640

Next, in car drop chaos, Grant and the experiment are close to cracking.

1048

01:00:54,640 --> 01:00:56,640

And it's a myth buster's first.

1049

01:00:56,640 --> 01:00:59,640

Adam is struck dumb.

1050

01:01:07,640 --> 01:01:13,640

Carrie Grant and Tori are hot on the trail of a commercial tall tale.

1051

01:01:13,640 --> 01:01:21,640

Can a luxury car traveling at 142 miles per hour beat a falling car in a 4,000 foot race?

1052

01:01:24,640 --> 01:01:26,640

This is going to be awesome.

1053

01:01:26,640 --> 01:01:30,640

We've come all the way out to the Mojave Desert where we have a beautiful expanse of space.

1054

01:01:30,640 --> 01:01:32,640

Listen.

1055

01:01:32,640 --> 01:01:35,640

It's quiet. Too quiet.

1056

01:01:35,640 --> 01:01:37,640

It's like the calm before the storm.

1057

01:01:38,640 --> 01:01:41,640

That we can radio control our car into our car drop.

1058

01:01:41,640 --> 01:01:47,640

Yep, it's the perfect spacious location for loquacious overcaffeinated myth busters.

1059

01:01:47,640 --> 01:01:50,640

Can you imagine how crazy this is going to be once we're all set up?

1060

01:01:50,640 --> 01:01:55,640

Grant's going to be remotely controlling a car going 140 miles an hour screaming down the desert.

1061

01:01:55,640 --> 01:01:59,640

Carrie's going to be up in a helicopter with a car hanging 4,000 feet in the air.

1062

01:01:59,640 --> 01:02:02,640

We're going to release that and see which one gets to the X first.

1063

01:02:05,640 --> 01:02:07,640

That's just defender better. We're all good.

1064

01:02:07,640 --> 01:02:09,640

This is going to be nuts.

1065

01:02:11,640 --> 01:02:13,640

Alright, let's mark out our course.

1066

01:02:13,640 --> 01:02:19,640

In the commercial, the car on the ground had a smooth strip of asphalt to haul luxury car line.

1067

01:02:19,640 --> 01:02:22,640

Man, it's going to be tough for Grant to control that car.

1068

01:02:22,640 --> 01:02:28,640

But out here, the guys will have to settle for a straight line run on the hard packed lakebed.

1069

01:02:30,640 --> 01:02:33,640

Stop! That's it. That's the last car.

1070

01:02:33,640 --> 01:02:35,640

That was a lot easier than I thought it was going to be.

1071

01:02:35,640 --> 01:02:37,640

But they're not done yet.

1072

01:02:37,640 --> 01:02:39,640

I feel like I've been here before.

1073

01:02:39,640 --> 01:02:44,640

Because next, they plow Grant's guideline and at the end of the line, they lay out the target zone.

1074

01:02:44,640 --> 01:02:49,640

The desert does make people go crazy.

1075

01:02:53,640 --> 01:02:59,640

Meanwhile, back at HQ, in an oasis of sanity, Grant has finished prepping the RC car.

1076

01:02:59,640 --> 01:03:01,640

So here's the low down on the car.

1077

01:03:01,640 --> 01:03:09,640

I've got a long range radio control system hooked up to controls for steering, throttle and brake that I can activate from over 2 miles away.

1078

01:03:10,640 --> 01:03:17,640

I've got a wireless video camera that links up to a remote monitor so I can follow the line all the way to the target.

1079

01:03:17,640 --> 01:03:20,640

Clearly, this is not your average luxury car.

1080

01:03:20,640 --> 01:03:25,640

Clearly, because during a successful systems check, Grant remote controls the steering...

1081

01:03:25,640 --> 01:03:27,640

Look, man, no hand!

1082

01:03:27,640 --> 01:03:28,640

No faster!

1083

01:03:28,640 --> 01:03:38,640

...throttle and brakes with Carrie in the inaccurately named driver's seat, which leaves one final piece of the puzzle.

1084

01:03:39,640 --> 01:03:42,640

Now it's time to move on to the video test.

1085

01:03:42,640 --> 01:03:47,640

And probably the most important thing is to see if I can see the line that you guys carved in the desert.

1086

01:03:47,640 --> 01:03:52,640

This time, Tori's in the hot seat and he'll be controlling the foot pedals only.

1087

01:03:52,640 --> 01:03:53,640

Stand by for video.

1088

01:03:53,640 --> 01:03:55,640

Tori, are you ready to go?

1089

01:03:55,640 --> 01:03:57,640

I am ready when you guys are.

1090

01:03:57,640 --> 01:03:58,640

Ready?

1091

01:03:58,640 --> 01:03:59,640

Hit it.

1092

01:03:59,640 --> 01:04:00,640

Hit it!

1093

01:04:03,640 --> 01:04:05,640

It's a great start.

1094

01:04:05,640 --> 01:04:07,640

Looks beautiful.

1095

01:04:07,640 --> 01:04:12,640

But as Tori closes in on 50 miles an hour, Grant begins to lose control...

1096

01:04:12,640 --> 01:04:14,640

Okay, he lost the line.

1097

01:04:14,640 --> 01:04:16,640

...and the video signal.

1098

01:04:16,640 --> 01:04:19,640

Oh, okay, I'm gonna take the brakes down here.

1099

01:04:19,640 --> 01:04:21,640

Stop, stop, stop, stop, stop, stop.

1100

01:04:21,640 --> 01:04:23,640

I think that test is over.

1101

01:04:23,640 --> 01:04:25,640

How are you feeling?

1102

01:04:25,640 --> 01:04:26,640

All right.

1103

01:04:26,640 --> 01:04:28,640

Really, because you look like you're freaking out.

1104

01:04:28,640 --> 01:04:30,640

It's no wonder.

1105

01:04:30,640 --> 01:04:34,640

The whole experiment is riding on Grant being able to pull this off.

1106

01:04:34,640 --> 01:04:37,640

But after a few pressure-filled deep thought minutes,

1107

01:04:37,640 --> 01:04:40,640

they come up with a solution for the control issue.

1108

01:04:42,640 --> 01:04:47,640

They raise the camera from the hood to the roof and give Grant a better view of the track.

1109

01:04:47,640 --> 01:04:50,640

Okey-dokey, let's give this a shot.

1110

01:04:50,640 --> 01:04:52,640

And the results are immediate.

1111

01:04:52,640 --> 01:04:55,640

All right, I'm about 60 miles an hour here.

1112

01:04:55,640 --> 01:04:58,640

With the higher vantage point, the oversteering is a thing of the past.

1113

01:04:58,640 --> 01:05:00,640

That's good.

1114

01:05:02,640 --> 01:05:03,640

Oh, man.

1115

01:05:03,640 --> 01:05:07,640

But with the video still dropping out, he's steering blind.

1116

01:05:07,640 --> 01:05:10,640

Well, that was pretty good up until the video cut out.

1117

01:05:10,640 --> 01:05:16,640

Something he can't afford at the test speed of 142 miles per hour.

1118

01:05:16,640 --> 01:05:21,640

For some reason, we've got a lot of interference out here on the lakebed.

1119

01:05:21,640 --> 01:05:24,640

But whatever it is, we've got to go with the plan B.

1120

01:05:24,640 --> 01:05:26,640

Now, we've got a helicopter.

1121

01:05:26,640 --> 01:05:31,640

So it's possible that maybe I can control from inside the helicopter.

1122

01:05:31,640 --> 01:05:37,640

The key thing here is that the receiver for the video has to be pointed at the car at all times.

1123

01:05:37,640 --> 01:05:43,640

But I think what I can do is have Tori aim it at the car as we're flying along

1124

01:05:43,640 --> 01:05:45,640

and make sure I've got video all the time.

1125

01:05:45,640 --> 01:05:47,640

At least that's the plan.

1126

01:05:52,640 --> 01:05:57,640

This demolition derby is all about crushing, crunching and crashing.

1127

01:06:02,640 --> 01:06:07,640

But Adam and Jamie are taking it to a whole new level.

1128

01:06:07,640 --> 01:06:16,640

They're using rockets to find out if, under any circumstances, it's possible to pancake a compact so much,

1129

01:06:16,640 --> 01:06:20,640

you lose it in the wreckage of a two-truck collision.

1130

01:06:21,640 --> 01:06:27,640

And to do it, New Mexico Tech has lent them their straight-track rocket roller coaster.

1131

01:06:27,640 --> 01:06:30,640

Let me spell out for you exactly how this is going to break down.

1132

01:06:30,640 --> 01:06:34,640

When we push the launch button from the bunker, this back sled fires,

1133

01:06:34,640 --> 01:06:39,640

pushing this front sled down the track to here, where the front sled's rockets kick into gear

1134

01:06:39,640 --> 01:06:41,640

and carry it the rest of the way down the track.

1135

01:06:42,640 --> 01:06:46,640

By the time our sled reaches the end of the track here, it ought to be going 700 miles an hour.

1136

01:06:46,640 --> 01:06:51,640

It will then leave the track, traveling across 20 feet of open space, where we'll eventually hit our car.

1137

01:06:51,640 --> 01:06:53,640

It's back on the nose.

1138

01:06:53,640 --> 01:06:56,640

Now, the car's backed up against that steel plate in that concrete block,

1139

01:06:56,640 --> 01:07:00,640

and that should simulate our two-truck impact at the speed of sound.

1140

01:07:00,640 --> 01:07:05,640

So we've kept you waiting long enough. Let's get down to business.

1141

01:07:05,640 --> 01:07:06,640

Are you ready?

1142

01:07:06,640 --> 01:07:07,640

I'm ready.

1143

01:07:07,640 --> 01:07:08,640

Do you mind if I flip this way?

1144

01:07:08,640 --> 01:07:09,640

Go for it.

1145

01:07:09,640 --> 01:07:15,640

This is Compact Compact Rocket Sled in three, two, one.

1146

01:07:22,640 --> 01:07:24,640

Holy crap!

1147

01:07:27,640 --> 01:07:28,640

That didn't mess around.

1148

01:07:28,640 --> 01:07:29,640

Oh, no!

1149

01:07:31,640 --> 01:07:33,640

That second stage was a hell of a thing.

1150

01:07:33,640 --> 01:07:35,640

It was like, whoa, it just disappeared.

1151

01:07:36,640 --> 01:07:38,640

Now, that was fast.

1152

01:07:38,640 --> 01:07:42,640

Really, really fast.

1153

01:07:42,640 --> 01:07:44,640

That was unlike anything I've seen before.

1154

01:07:44,640 --> 01:07:46,640

We've seen plenty of rocket launches.

1155

01:07:46,640 --> 01:07:51,640

I'm used to the speed of a rocket, but when the second stage kicked in,

1156

01:07:51,640 --> 01:07:54,640

I was thinking, I've never seen anything go that fast,

1157

01:07:54,640 --> 01:07:56,640

and then I realized, actually, that's correct.

1158

01:07:56,640 --> 01:07:59,640

I have never seen anything go that fast.

1159

01:07:59,640 --> 01:08:00,640

Three.

1160

01:08:00,640 --> 01:08:02,640

Awesome is such an overused word.

1161

01:08:02,640 --> 01:08:03,640

Good.

1162

01:08:03,640 --> 01:08:06,640

But that truly inspired awe.

1163

01:08:06,640 --> 01:08:08,640

Holy crap!

1164

01:08:08,640 --> 01:08:09,640

And then some.

1165

01:08:11,640 --> 01:08:19,640

Incredibly, the spectacle of the launch is matched by the destruction of the rocket's destination.

1166

01:08:19,640 --> 01:08:23,640

Wow, that's a lot flatter than the one out on the runway.

1167

01:08:24,640 --> 01:08:26,640

I wouldn't exactly call it flat.

1168

01:08:26,640 --> 01:08:29,640

It's more like shrapnel.

1169

01:08:29,640 --> 01:08:32,640

What an impossibly large amount of force.

1170

01:08:32,640 --> 01:08:35,640

There's the one-inch plate over there.

1171

01:08:35,640 --> 01:08:39,640

Yes, this twisted, folded, and all-around mangled piece of metal...

1172

01:08:39,640 --> 01:08:41,640

Look at that!

1173

01:08:41,640 --> 01:08:45,640

...was once a square piece of one-inch-thick steel plate.

1174

01:08:45,640 --> 01:08:46,640

I wouldn't have called this.

1175

01:08:46,640 --> 01:08:48,640

It's a freaking potato chip.

1176

01:08:50,640 --> 01:08:54,640

For an encore of all...

1177

01:08:54,640 --> 01:08:56,640

Holy crap!

1178

01:08:56,640 --> 01:08:58,640

This is eating the car.

1179

01:08:59,640 --> 01:09:02,640

And an opportunity to crunch the crucial numbers,

1180

01:09:02,640 --> 01:09:07,640

Adam and Jamie check out the aptly-named high-speed footage.

1181

01:09:07,640 --> 01:09:08,640

The results are in.

1182

01:09:08,640 --> 01:09:12,640

At the moment of impact, our rocket's lift was traveling at 948 feet per second,

1183

01:09:12,640 --> 01:09:15,640

or about 650 miles per hour.

1184

01:09:15,640 --> 01:09:19,640

So our goal was to fuse metal and pancake the car.

1185

01:09:19,640 --> 01:09:21,640

Did we achieve that?

1186

01:09:21,640 --> 01:09:23,640

What car?

1187

01:09:27,640 --> 01:09:29,640

As far as whether or not this test pan-kicked the car,

1188

01:09:29,640 --> 01:09:33,640

I have to say between looking at this debris and looking at the high-speed shot,

1189

01:09:33,640 --> 01:09:35,640

I think we did.

1190

01:09:35,640 --> 01:09:41,640

I mean, cut to the accident we created out on the runway of the two semi-tracked trailers.

1191

01:09:41,640 --> 01:09:44,640

And then take a look at this debris.

1192

01:09:44,640 --> 01:09:47,640

I feel like this debris could hide in between those two trucks.

1193

01:09:47,640 --> 01:09:50,640

They'd have to be going 30% faster than the commercial airliner,

1194

01:09:50,640 --> 01:09:54,640

but still I believe that we successfully pan-kaked.

1195

01:09:57,640 --> 01:09:59,640

Okay, that's the pan-kaking.

1196

01:09:59,640 --> 01:10:03,640

But what about the mythical fusing of the two trucks?

1197

01:10:03,640 --> 01:10:08,640

So we had this massive impact that was able to throw around about 50,000 pounds,

1198

01:10:08,640 --> 01:10:10,640

like this block right here.

1199

01:10:10,640 --> 01:10:14,640

Yet I don't really think that we got anything like a nice clean fusion.

1200

01:10:14,640 --> 01:10:19,640

That implies a well, you know, nice little surface that stuck one to the other.

1201

01:10:19,640 --> 01:10:23,640

This is more like, you know, a bomb went off.

1202

01:10:23,640 --> 01:10:29,640

So this is what it takes to successfully squish a car so small

1203

01:10:29,640 --> 01:10:33,640

it could be lost inside the wreckage of two trucks.

1204

01:10:33,640 --> 01:10:39,640

But like Jamie said, there was no fusion, and that means they're not done yet.

1205

01:10:39,640 --> 01:10:43,640

If we're going to achieve fusion, we need something that is somehow more controlled

1206

01:10:43,640 --> 01:10:45,640

than what we got in this case.

1207

01:10:45,640 --> 01:10:47,640

Don't go away after the break.

1208

01:10:47,640 --> 01:10:49,640

It just keeps getting a little more exciting.

1209

01:10:49,640 --> 01:10:52,640

Carrie Grant and Tori take it to a whole new level.

1210

01:10:52,640 --> 01:10:55,640

Cars being lifted off the ground.

1211

01:10:58,640 --> 01:11:02,640

Then Adam and Jamie meld metal by numbers.

1212

01:11:10,640 --> 01:11:16,640

The Mojave. It's a spectacular location for a spectacular experiment.

1213

01:11:20,640 --> 01:11:22,640

Look, Mom, no hands!

1214

01:11:22,640 --> 01:11:26,640

This is going to be nuts if they can pull it off.

1215

01:11:26,640 --> 01:11:28,640

Have you been drinking, Grant?

1216

01:11:28,640 --> 01:11:34,640

Because Carrie, Grant and Tori are having problems with the video feed to the radio controlled car.

1217

01:11:34,640 --> 01:11:36,640

Well, that was pretty good up until the video cut out.

1218

01:11:36,640 --> 01:11:43,640

So it's time to invoke the Mythbusters patron saint, the second letter of the alphabet, and its magical plan.

1219

01:11:43,640 --> 01:11:46,640

So we've got our plan B. We've got the helicopter.

1220

01:11:46,640 --> 01:11:53,640

But to be honest, if this doesn't work, it's pretty much game over. There is no plan C.

1221

01:11:53,640 --> 01:11:59,640

Really, really crossing our fingers here, but we think tracking the car with the antenna in the helicopter

1222

01:11:59,640 --> 01:12:03,640

and Grant doing a video feed from the helicopter chasing the car

1223

01:12:03,640 --> 01:12:06,640

might actually get us to the finish line.

1224

01:12:06,640 --> 01:12:09,640

You ready, Grant? Thanks, Sal.

1225

01:12:09,640 --> 01:12:13,640

The worst could happen. You could lose control on the car flip.

1226

01:12:13,640 --> 01:12:18,640

Now the antenna is directional. You can't just hook it to the helicopter and it'll work.

1227

01:12:18,640 --> 01:12:20,640

Alright, here we go.

1228

01:12:20,640 --> 01:12:24,640

I'm going to have to actually hold it and point the antenna at the car as we're following it.

1229

01:12:24,640 --> 01:12:29,640

So that way Grant gets a signal and he'll be in the backseat remotely controlling the car,

1230

01:12:29,640 --> 01:12:35,640

looking at the video system, trying to keep it on the line, trying to get it up to speed so we can make it to the X.

1231

01:12:35,640 --> 01:12:37,640

This is going to be sick.

1232

01:12:37,640 --> 01:12:42,640

In addition to testing the new setup, Grant will be doing a top speed test.

1233

01:12:42,640 --> 01:12:52,640

Remember, in the commercial, over the race distance of 4,000 feet, the car on the ground was going 142 miles per hour.

1234

01:12:52,640 --> 01:12:59,640

Our car is capable of the same speed, but can it do it out here and can Grant control it?

1235

01:12:59,640 --> 01:13:03,640

Three, two, one. Here we go.

1236

01:13:06,640 --> 01:13:08,640

Bestie.

1237

01:13:08,640 --> 01:13:10,640

It's 65.

1238

01:13:10,640 --> 01:13:12,640

72.

1239

01:13:12,640 --> 01:13:14,640

80 miles an hour.

1240

01:13:14,640 --> 01:13:16,640

90.

1241

01:13:16,640 --> 01:13:18,640

97.

1242

01:13:18,640 --> 01:13:20,640

100 miles an hour.

1243

01:13:20,640 --> 01:13:23,640

105.

1244

01:13:23,640 --> 01:13:26,640

Still on target. 105 miles an hour.

1245

01:13:30,640 --> 01:13:33,640

105 miles an hour.

1246

01:13:33,640 --> 01:13:35,640

Two, three, go.

1247

01:13:36,640 --> 01:13:40,640

So we just did our test with the helicopter and I gotta say, it went great.

1248

01:13:40,640 --> 01:13:45,640

Which means we're doing the final experiment, fracking the car from the helicopter.

1249

01:13:45,640 --> 01:13:47,640

It just keeps getting a little more exciting.

1250

01:13:47,640 --> 01:13:49,640

Exciting? Sure.

1251

01:13:49,640 --> 01:13:51,640

But what about the top speed issue?

1252

01:13:51,640 --> 01:13:55,640

Now before we move on to our final test, there's one more thing I have to do.

1253

01:13:55,640 --> 01:14:02,640

Because the car only goes 105 miles an hour here on the dry lake bed, maybe because it's so bumpy or whatever,

1254

01:14:02,640 --> 01:14:05,640

it's not the same top speed as the car in the commercial.

1255

01:14:05,640 --> 01:14:14,640

So I've gotta do a little math and figure out an equivalent distance to start the car so that it compensates for this difference in speed.

1256

01:14:14,640 --> 01:14:16,640

And here's how it breaks down.

1257

01:14:16,640 --> 01:14:24,640

In the commercial, the car is moving at 142 miles per hour over 4,000 feet, which takes 19.2 seconds.

1258

01:14:24,640 --> 01:14:27,640

105 miles per hour.

1259

01:14:27,640 --> 01:14:34,640

But moving at 105 miles per hour in 19.2 seconds, you'd travel a fraction over...

1260

01:14:34,640 --> 01:14:38,640

2,950 feet.

1261

01:14:38,640 --> 01:14:43,640

So while 2,950 feet is the race distance for the car on the ground...

1262

01:14:43,640 --> 01:14:46,640

So this is our new start mark.

1263

01:14:46,640 --> 01:14:50,640

The falling car will still be dropped from 4,000 feet.

1264

01:14:50,640 --> 01:14:56,640

And tasked with taking the car almost a mile in the air is the Sikorsky,

1265

01:14:56,640 --> 01:15:03,640

capable of lifting 5,000 pounds and reaching an altitude of 16,000 feet.

1266

01:15:03,640 --> 01:15:07,640

In the chopper world, this puppy is top dog.

1267

01:15:07,640 --> 01:15:10,640

Alright, this is it. Final experiment. Let's go for the plan.

1268

01:15:10,640 --> 01:15:12,640

Okay, well the speed test went really well.

1269

01:15:12,640 --> 01:15:17,640

I can hold a steady 105 miles an hour and I can see the car and control it great from the chopper.

1270

01:15:17,640 --> 01:15:22,640

Alright, well I reset the start mark on the course so that it's as if we're going 142 miles an hour.

1271

01:15:22,640 --> 01:15:25,640

And I can actually see you guys cross the start line from the big helicopter

1272

01:15:25,640 --> 01:15:28,640

and I can trigger the car drop at exactly the same time.

1273

01:15:28,640 --> 01:15:29,640

And that's it.

1274

01:15:29,640 --> 01:15:32,640

If we can pull this off, this is gonna be insane.

1275

01:15:32,640 --> 01:15:34,640

I'll see you at the finish line!

1276

01:15:34,640 --> 01:15:36,640

Now if we see you first!

1277

01:15:36,640 --> 01:15:38,640

So the team splits into two.

1278

01:15:38,640 --> 01:15:45,640

Carrie hooks up with the heavy lifting team while Grant and Tori load up somewhat nervously in the chase chopper.

1279

01:15:45,640 --> 01:15:49,640

So the start line has been moved.

1280

01:15:49,640 --> 01:15:54,640

The car is fully prepped. The helicopter's ready to go.

1281

01:15:54,640 --> 01:15:57,640

I'm just not sure if I'm ready to go.

1282

01:15:57,640 --> 01:15:59,640

You're all buckled in. Good job.

1283

01:15:59,640 --> 01:16:03,640

I'm all buckled in and ready to go.

1284

01:16:03,640 --> 01:16:10,640

It's a lot to take in and 100 things have to go right all at the same time for this to go well.

1285

01:16:12,640 --> 01:16:17,640

But only one or two things have to go wrong and it goes horribly wrong.

1286

01:16:19,640 --> 01:16:26,640

So I'm just gonna take a few deep breaths and make sure my steering thumb is good to go.

1287

01:16:26,640 --> 01:16:29,640

Can you really get any cooler than this?

1288

01:16:29,640 --> 01:16:31,640

There's a pretty mighty chopper there.

1289

01:16:31,640 --> 01:16:33,640

Control the car straight down the course.

1290

01:16:33,640 --> 01:16:38,640

Just be in the moment, be in the zen of the whole thing and make sure I get to the target.

1291

01:16:38,640 --> 01:16:42,640

All those years of video games are gonna pay off now.

1292

01:16:42,640 --> 01:16:43,640

Good job.

1293

01:16:43,640 --> 01:16:45,640

Yeah!

1294

01:16:45,640 --> 01:16:47,640

There it goes.

1295

01:16:47,640 --> 01:16:48,640

Here we go.

1296

01:16:48,640 --> 01:16:50,640

Wow.

1297

01:16:50,640 --> 01:16:52,640

That's mighty.

1298

01:16:52,640 --> 01:16:58,640

I am so excited about my role in the final experiment because not only do I get to control the car drop itself,

1299

01:16:58,640 --> 01:17:00,640

I get to see the whole thing in action.

1300

01:17:00,640 --> 01:17:03,640

I get to see the speeding car with the tracking helicopter.

1301

01:17:03,640 --> 01:17:07,640

I get to see the car drop and go down into the desert.

1302

01:17:07,640 --> 01:17:10,640

All right, car is being lifted off the ground.

1303

01:17:10,640 --> 01:17:12,640

Oh!

1304

01:17:12,640 --> 01:17:15,640

Ha ha ha!

1305

01:17:15,640 --> 01:17:19,640

We're now heading over to the drop zone. We've picked up our car.

1306

01:17:19,640 --> 01:17:23,640

And now begins the long climb to 4,000 feet.

1307

01:17:23,640 --> 01:17:25,640

Okay, we're at 1,000 feet.

1308

01:17:25,640 --> 01:17:32,640

Once there, Grant and Tori will assume their start position above the RC car and the race is on.

1309

01:17:32,640 --> 01:17:36,640

2,000 feet climbing. About 30 seconds from our start position.

1310

01:17:36,640 --> 01:17:38,640

See the ax?

1311

01:17:38,640 --> 01:17:41,640

Yeah, you can still see it. It's tiny.

1312

01:17:41,640 --> 01:17:46,640

Okay, we're 4,000 feet and directly above the target zone. Ready for the drop.

1313

01:17:46,640 --> 01:17:49,640

Grant, in your own time, start driving.

1314

01:17:50,640 --> 01:17:57,640

It's the Mythbusters demolition derby.

1315

01:17:57,640 --> 01:18:02,640

And Adam and Jamie have more than compacted their compact.

1316

01:18:04,640 --> 01:18:07,640

But where did all this start?

1317

01:18:07,640 --> 01:18:14,640

It all started with a myth about two semi-tractor trailers that hit each other on the freeway with such force that they fused together and crunched a car between them that couldn't be found for several days.

1318

01:18:14,640 --> 01:18:18,640

We tried the experiment full-scale a few years ago and they might get it right.

1319

01:18:18,640 --> 01:18:23,640

We were able to try again for this episode and got it mostly right but we still didn't get a car between them and we didn't get them fused together.

1320

01:18:23,640 --> 01:18:32,640

So we ramped up the speed, posted the speed of sound and while we did get a pink car we did not get the fused metal so we come back to New Mexico Tech and they're going to show us what fusing metal is all about.

1321

01:18:32,640 --> 01:18:34,640

This looks perfect.

1322

01:18:34,640 --> 01:18:42,640

We were unable to fuse metal with our head-on collisions but apparently there is a process by which one can bond metals using an impact.

1323

01:18:42,640 --> 01:18:45,640

It's called explosive welding.

1324

01:18:45,640 --> 01:18:52,640

Unlike the testing we were doing earlier which is pretty much chaos, explosive welding is a precision process.

1325

01:18:52,640 --> 01:19:02,640

We're going to take this plate, put it on top of the other at a specific distance, apply explosives in a very precise way and that will get the job done.

1326

01:19:02,640 --> 01:19:10,640

So essentially they'll be using 500 pounds of high explosive to literally push the steel plates into each other.

1327

01:19:10,640 --> 01:19:19,640

And safely hunkered in the bunker it's time to well buy numbers and those numbers are...

1328

01:19:19,640 --> 01:19:22,640

Three, two, one...

1329

01:19:27,640 --> 01:19:31,640

Wow! That was a thud!

1330

01:19:34,640 --> 01:19:39,640

It was bigger than I expected from that innocuous box of white powder that we set up down there.

1331

01:19:41,640 --> 01:19:49,640

From that innocuous box of white powder to one of the coolest shots we've ever seen on Mythbusters.

1332

01:19:49,640 --> 01:19:52,640

There's the shockwave. I never get tired of seeing that.

1333

01:19:52,640 --> 01:19:56,640

Look, look, look, you can even see the shadow of the shockwave there on the ground.

1334

01:19:56,640 --> 01:20:02,640

Looks like there's a lot of stuff that's kind of spraying out all around the ground at the same time as we're shooting up.

1335

01:20:02,640 --> 01:20:05,640

It's going to be like a potato chip I think.

1336

01:20:06,640 --> 01:20:09,640

You were right, it is a little potato chippy.

1337

01:20:09,640 --> 01:20:13,640

I couldn't very well imagine it. It stays straight like it was to start.

1338

01:20:13,640 --> 01:20:22,640

Oh, yeah, if you take a look at the side here it's quite clear that the total thickness is less than the combined thickness of the two sheets when we started.

1339

01:20:22,640 --> 01:20:25,640

Yeah, it looks like it's like clay.

1340

01:20:26,640 --> 01:20:33,640

Just to give you an idea about how much force was involved in that explosion, I'm standing at ground zero of where that explosion occurred.

1341

01:20:33,640 --> 01:20:41,640

It's about a three foot deep crater and interesting note, this is very similar to the crater that Jamie created when he first came to Earth.

1342

01:20:42,640 --> 01:20:47,640

Well, that there was one heck of a lot of destruction in Mayhem we created in pursuit of this myth.

1343

01:20:47,640 --> 01:20:48,640

I'll say.

1344

01:20:48,640 --> 01:20:49,640

Well, where does that leave us?

1345

01:20:49,640 --> 01:20:53,640

Well, we proved that it is possible to pancake a compact car.

1346

01:20:53,640 --> 01:20:56,640

Although you'd have to go close to the speed of sand to do it.

1347

01:20:56,640 --> 01:20:59,640

And we've proven that you can fuse two pieces of steel together.

1348

01:20:59,640 --> 01:21:02,640

You need about 500 pounds of high explosive to do that.

1349

01:21:02,640 --> 01:21:08,640

And since none of those things happen on any highway or freeway I've ever driven on, I think we

have to call this one.

1350

01:21:08,640 --> 01:21:09,640

Busted.

1351

01:21:09,640 --> 01:21:11,640

Yeah, busted. Again, busted.

1352

01:21:14,640 --> 01:21:15,640

Next.

1353

01:21:15,640 --> 01:21:16,640

It's time for you now.

1354

01:21:16,640 --> 01:21:18,640

Our well-drilled platoon.

1355

01:21:18,640 --> 01:21:20,640

Cars away, cars away.

1356

01:21:20,640 --> 01:21:21,640

What's the speed, Grant?

1357

01:21:21,640 --> 01:21:22,640

45.

1358

01:21:22,640 --> 01:21:26,640

Attempt to pull off their biggest myth mission ever.

1359

01:21:27,640 --> 01:21:30,640

Dropping in three, two, one.

1360

01:21:30,640 --> 01:21:32,640

Release the car.

1361

01:21:32,640 --> 01:21:33,640

Here she goes.

1362

01:21:42,640 --> 01:21:47,640

Carrie Grant and Tori are about to test one of Mythbusters' biggest stories ever.

1363

01:21:47,640 --> 01:21:49,640

All right, looks like they're over the X.

1364

01:21:49,640 --> 01:21:50,640

Yeah, looks good.

1365

01:21:50,640 --> 01:21:55,640

And here's Grant with the lowdown on their high-flying car drop experiments.

1366

01:21:55,640 --> 01:21:57,640

So this is the main event.

1367

01:21:57,640 --> 01:21:59,640

This is the final experiment.

1368

01:21:59,640 --> 01:22:01,640

And here is the setup.

1369

01:22:01,640 --> 01:22:07,640

I will be in the small helicopter controlling the driving car with a remote control link and a remote video link.

1370

01:22:07,640 --> 01:22:09,640

Time's being now.

1371

01:22:09,640 --> 01:22:15,640

Tori will be in the chopper with me, pointing the directional receiver antenna at the car at all times.

1372

01:22:15,640 --> 01:22:19,640

We'll chase the car down the track as I drive towards the start line.

1373

01:22:19,640 --> 01:22:24,640

Hit the start line at our top speed of 105 miles an hour.

1374

01:22:24,640 --> 01:22:31,640

At the same time, Carrie will be in the big chopper hauling the drop car over to the drop zone.

1375

01:22:31,640 --> 01:22:35,640

We're at 4,000 feet and directly above the target zone, ready for the drop.

1376

01:22:35,640 --> 01:22:43,640

When we hit the start line, she'll be over the X, she'll release the car, and then we'll see which one gets to the target first.

1377

01:22:43,640 --> 01:22:48,640

And so, with everyone in position, the countdown to counting backwards begins.

1378

01:22:48,640 --> 01:22:52,640

OK, here we go. Three, two, one.

1379

01:22:52,640 --> 01:22:56,640

Car is away, car is away.

1380

01:22:56,640 --> 01:22:58,640

What's the speed, Grant?

1381

01:22:58,640 --> 01:23:00,640

45, 45 miles an hour.

1382

01:23:00,640 --> 01:23:02,640

Looking good, 60 miles an hour.

1383

01:23:02,640 --> 01:23:06,640

The stress and practice from yesterday seems to be paying off.

1384

01:23:06,640 --> 01:23:08,640

70, looking great.

1385

01:23:08,640 --> 01:23:13,640

Grant and Tori are keeping the car on track, and they're picking up speed nicely.

1386

01:23:13,640 --> 01:23:17,640

You're coming into view, Grant. I can see you guys down there.

1387

01:23:17,640 --> 01:23:20,640

80. Car is looking good. We're going straight for the X.

1388

01:23:20,640 --> 01:23:23,640

We're about a thousand feet from the start marks.

1389

01:23:23,640 --> 01:23:25,640

We're at 95 miles an hour.

1390

01:23:25,640 --> 01:23:27,640

OK, on target.

1391

01:23:27,640 --> 01:23:29,640

Looking good, Grant. Looking good.

1392

01:23:29,640 --> 01:23:31,640

Stand by.

1393

01:23:31,640 --> 01:23:33,640

Coming up to the mark soon. OK.

1394

01:23:33,640 --> 01:23:35,640

500 feet.

1395

01:23:35,640 --> 01:23:37,640

105, holding 105.

1396

01:23:37,640 --> 01:23:40,640

Coming in three, two, one.

1397

01:23:40,640 --> 01:23:43,640

Release the car.

1398

01:23:43,640 --> 01:23:45,640

And the race is on.

1399

01:23:45,640 --> 01:23:48,640

Here it comes, 105.

1400

01:23:48,640 --> 01:23:50,640

Holding 105.

1401

01:23:50,640 --> 01:23:53,640

Here comes the car. Holding 105.

1402

01:23:53,640 --> 01:23:55,640

Woo!

1403

01:23:55,640 --> 01:23:58,640

There's hits to down the target. Coming up.

1404

01:23:58,640 --> 01:24:00,640

We're going in. We're going in.

1405

01:24:00,640 --> 01:24:02,640

We're going in.

1406

01:24:02,640 --> 01:24:07,640

That was spectacular, and the result was there for all to see.

1407

01:24:07,640 --> 01:24:09,640

We're going in. We're going in.

1408

01:24:09,640 --> 01:24:11,640

There's hits to down the target. Coming up.

1409

01:24:11,640 --> 01:24:18,640

Unlike the commercial, the falling car hit the ground more than two seconds before the driving car crossed the target.

1410

01:24:18,640 --> 01:24:27,640

And despite being back on the ground, it's quite obvious the team's adrenaline levels are still sky high.

1411

01:24:27,640 --> 01:24:29,640

We did it!

1412

01:24:29,640 --> 01:24:31,640

Yes! Yes!

1413

01:24:31,640 --> 01:24:35,640

OK, I'm not going to say like, Luke down the Death Star trench.

1414

01:24:35,640 --> 01:24:37,640

You drove across the freaking X.

1415

01:24:37,640 --> 01:24:42,640

Thank you. But it was like Luke down the Death Star trench under the X-Cup Zone. Yeah!

1416

01:24:42,640 --> 01:24:46,640

Here it comes. We're in the fall helicopter. The car is going. We're trying to get up to speed.

1417

01:24:46,640 --> 01:24:51,640

I'm like, Grant, how fast are we going now? We're at 40 miles an hour. How fast are we now? 60 miles an hour.

1418

01:24:51,640 --> 01:24:55,640

We have to get up to 105. The mark is getting closer. We get up to like 90.

1419

01:24:55,640 --> 01:25:00,640

We're maybe about a thousand feet away. We get to 105 miles an hour. We hit the mark.

1420

01:25:00,640 --> 01:25:06,640

The car is released and I could see the car falling and I could see the car driving.

1421

01:25:06,640 --> 01:25:12,640

And all of a sudden it was like, boom, the car falling hits and then the Grant's car goes over the X.

1422

01:25:12,640 --> 01:25:16,640

We did it!

1423

01:25:16,640 --> 01:25:19,640

I was less excited after my first kiss.

1424

01:25:19,640 --> 01:25:27,640

So aside from denting the ego of Carrie's first boyfriend, you could say this experiment went spectacularly well.

1425

01:25:27,640 --> 01:25:33,640

That's what happens when you drop a car from a helicopter and try to beat it with the car on the ground.

1426

01:25:33,640 --> 01:25:36,640

Look at this. The rim is detached from the tire.

1427

01:25:36,640 --> 01:25:38,640

And the tire's still standing.

1428

01:25:38,640 --> 01:25:43,640

And all that's left to do is head on back to the shop for a rundown of the breakdown.

1429

01:25:43,640 --> 01:25:46,640

If we didn't wreck all the cars, we wouldn't have to walk home.

1430

01:25:46,640 --> 01:25:47,640

That's true.

1431

01:25:47,640 --> 01:25:49,640

Do you have enough water to make it out for that mountain?

1432

01:25:49,640 --> 01:25:52,640

No. We'll be dead before we even get to the mountain.

1433

01:25:52,640 --> 01:25:54,640

Okay, so how do we call this?

1434

01:25:54,640 --> 01:25:59,640

Well, ultimately I think the fans are going to point out that we didn't use the exact same cars in the commercial,

1435

01:25:59,640 --> 01:26:02,640

although our cars were effectively identical.

1436

01:26:02,640 --> 01:26:07,640

Yeah, and you know what? We're also probably going to get emails saying that we didn't film on the same day as the commercial was,

1437

01:26:07,640 --> 01:26:11,640

which means the air currents would have been different, which would have given us a different result.

1438

01:26:11,640 --> 01:26:15,640

Okay, well, while we can't draw a firm conclusion about the commercial for those reasons,

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01:26:15,640 --> 01:26:18,640

we can say a few things from our data.

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01:26:18,640 --> 01:26:20,640

First of all, our car fell differently.

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01:26:20,640 --> 01:26:23,640

Second, it hit the ground 300 feet from the X.

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01:26:23,640 --> 01:26:27,640

And third, well, it hit the ground before the driving car crossed the X.

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01:26:27,640 --> 01:26:30,640

In other words, in our recreation, everything was busted.

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01:26:30,640 --> 01:26:31,640

Busted.

1445

01:26:31,640 --> 01:26:32,640

Busted.

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01:26:32,640 --> 01:26:34,640

You know what? Assuming that all cars fall in the same way,

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01:26:34,640 --> 01:26:40,640

the only way you would be able to beat a falling car is if you were to use a Formula One race car.

1448

01:26:40,640 --> 01:26:41,640

Okay, so let's get one.

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01:26:41,640 --> 01:26:42,640

I call driver.

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01:26:42,640 --> 01:26:44,640

That you said it was too dangerous to drive.

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01:26:44,640 --> 01:26:46,640

No, I said it was too dangerous for you to drive.

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01:26:51,640 --> 01:26:54,640

So the demolition derby is done.

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01:26:58,640 --> 01:27:04,640

And all that's left to do is confirm that, yes, automobiles were hurt in the making of this program.

1454

01:27:13,640 --> 01:27:15,640

May they rest in pieces.

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01:27:20,640 --> 01:27:22,640

The car drop has got to be the biggest myth we've ever busted.

1456

01:27:22,640 --> 01:27:27,640

Yeah, there was so much preparation for that, and a lot of it didn't even fit into the episode.

1457

01:27:27,640 --> 01:27:30,640

Well, if you want to see the rest, go to discovery.com.

