

1

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

Please, don't try anything that you're about to see us do at home. Ever.

2

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

Ready? Clear.

3

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

And Tori, Carrie and Grant check if there's any truth that defibrillators can explode medical patches.

4

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

High explosives and electricity. Woo!

5

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

It's a real shocker.

6

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

With vicious voltage and deadly detonation.

7

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

What?

8

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

Who are the Diff Mustards?

9

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

Adam Savage

10

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

Dangerous Mind

11

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

Middle Line

12

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

And Jamie Heinemann

13

00:01:03,000 --> 00:01:06,000

Between them over 30 years special effects experience.

14

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

Joining them, Tori Belichi

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

Miss you buddy

16

00:01:12,000 --> 00:01:13,000

Carrie Byron

17

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

Don't try what you're about to see at home.

18

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

And Grant Imajara

19

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

I'm flipping as fast as I can.

20

00:01:18,000 --> 00:01:20,000

They don't just tell them it's...

21

00:01:21,000 --> 00:01:23,000

They put them to the test.

22

00:01:29,000 --> 00:01:37,000

Woo!

23

00:01:38,000 --> 00:01:41,000

We got a whole new batch of speed frig myths to test this time.

24

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

Yeah, like what?

25

00:01:43,000 --> 00:01:48,000

Well, you remember back in series two, we ran through a whole gamut of tests to beat the police speed radar?

26

00:01:48,000 --> 00:01:51,000

I remember it like it was only yesterday.

27

00:01:52,000 --> 00:01:56,000

To beat the speed radar, the team tried every trick and then some.

28

00:01:56,000 --> 00:01:58,000

This is gonna freak them out.

29

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

A reverse microwave magnetron.

30

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

An aluminum foil firing chaff gun.

31

00:02:04,000 --> 00:02:07,000

The stealth bumper Matt Black makeover.

32

00:02:07,000 --> 00:02:09,000

Even a fully foil wrapped caddy.

33

00:02:09,000 --> 00:02:11,000

Foil's been foiled.

34

00:02:11,000 --> 00:02:13,000

None of them were invisible to the radar.

35

00:02:13,000 --> 00:02:15,000

All of them were totally...

36

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

Busted.

37

00:02:16,000 --> 00:02:20,000

I think if you're gonna get out of a ticket, short skirts and crying is still the way to go.

38

00:02:21,000 --> 00:02:27,000

But batting your cry baby blues may only work if the law enforcement officer is human.

39

00:02:27,000 --> 00:02:30,000

It won't get you anywhere with a clicking cop.

40

00:02:31,000 --> 00:02:35,000

But do the pole perching legal eagles catch all the fast moves?

41

00:02:35,000 --> 00:02:38,000

Can a speed camera ever be outstrip?

42

00:02:38,000 --> 00:02:45,000

Feeling the need for speed, viewers have sent in three mythical ways to beat the camera cop.

43

00:02:45,000 --> 00:02:50,000

The first one is that you can beat the speed camera by driving so fast through it,

44

00:02:50,000 --> 00:02:53,000

it doesn't have time to take your picture.

45

00:02:53,000 --> 00:02:55,000

Well, seems pretty straightforward.

46

00:02:55,000 --> 00:02:59,000

We get a speed camera, we get a car and we just drive like heck.

47

00:02:59,000 --> 00:03:01,000

Yeah we do!

48

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

So viewer myth number one.

49

00:03:06,000 --> 00:03:11,000

You can beat the speed camera by driving so fast, you can't see you.

50

00:03:12,000 --> 00:03:15,000

That'd be time to cue the souped up super car.

51

00:03:17,000 --> 00:03:24,000

But before we go high speed, Adam wants to test the theory in this car.

52

00:03:24,000 --> 00:03:29,000

This is a perfect car for the test because while it may not be the fastest car in the block,

53

00:03:29,000 --> 00:03:34,000

it is definitely representative of a totally average American car.

54

00:03:34,000 --> 00:03:37,000

If this myth is at all true, it ought to be true for your average car.

55

00:03:37,000 --> 00:03:42,000

Now if you're worried about Adam and Jamie maxing out a very average car,

56

00:03:42,000 --> 00:03:45,000

this is a pair of five point racing harnesses.

57

00:03:45,000 --> 00:03:47,000

You're not alone.

58

00:03:47,000 --> 00:03:52,000

Because we've got to drive at such high speeds, the insurance company requires we put some safety measures into it,

59

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

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

60

00:03:54,000 --> 00:04:01,000

And so is Jamie, but how gas-axing a hole in the rear makes the car safer is anyone's guess.

61

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

Once the bumper goes back on it, it'll be fine, nobody will know.

62

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

Until they have a crash, I won't tell.

63

00:04:09,000 --> 00:04:13,000

If this car can go half as fast as it's going in Adam's imagination,

64

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

flip on the afterburner.

65

00:04:14,000 --> 00:04:18,000

It should be able to beat the sound barrier, let alone a speed camera.

66

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

And I'm out!

67

00:04:19,000 --> 00:04:20,000

You ready?

68

00:04:20,000 --> 00:04:22,000

I'm totally ready, let's go.

69

00:04:22,000 --> 00:04:24,000

Let's go beat the speed camera.

70

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

Speed cameras work like sonar.

71

00:04:27,000 --> 00:04:29,000

They send out radar pulses.

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00:04:29,000 --> 00:04:34,000

The time it takes for the pulse to come back to the sensor registers the speed of the vehicle.

73

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

If it's over the limit, a signal sent to the camera to take a photo.

74

00:04:39,000 --> 00:04:45,000

The myth is, if you can drive faster than the pulses, it won't detect your vehicle.

75

00:04:46,000 --> 00:04:48,000

We got to beat the speed camera.

76

00:04:48,000 --> 00:04:52,000

The only place we can shoot this is our favorite tarmac at Alameda Navi Base.

77

00:04:52,000 --> 00:04:56,000

It's about a mile and three quarters of perfectly flat road.

78

00:04:56,000 --> 00:04:59,000

It's absolutely ideal for our purposes.

79

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

To Alameda, almost two miles of runway, one myth, one car, and no speed limit.

80

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

It's just another day in Mythbusters Paradise.

81

00:05:10,000 --> 00:05:17,000

At least until it's time to meet the speedster's arch enemy, the speed camera, and the mastermind behind it.

82

00:05:17,000 --> 00:05:18,000

Great.

83

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

Hi Adam.

84

00:05:19,000 --> 00:05:20,000

Thanks, you both.

85

00:05:20,000 --> 00:05:25,000

Adam Tuton's cameras have been the bane of every leadfoot's life since 1987.

86

00:05:25,000 --> 00:05:28,000

Over the years, how many tickets have your systems issued?

87

00:05:28,000 --> 00:05:30,000

I'd have to say millions.

88

00:05:30,000 --> 00:05:31,000

Wow.

89

00:05:31,000 --> 00:05:37,000

With millions of tickets under its belt, will Jani at full throttle be fast enough to get in under the radar?

90

00:05:37,000 --> 00:05:44,000

As usual, our biggest problem is not doing this particular stunt, but it's dealing with the insurance issues surrounding it.

91

00:05:44,000 --> 00:05:47,000

So we're going to have a safety person in the car with me.

92

00:05:47,000 --> 00:05:51,000

We're going to have a fire suit on and a helmet and a whole nine yards.

93

00:05:51,000 --> 00:05:57,000

Just in the case we blow a tire and spin out and crash and burn and stuff like that.

94

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

Ah, Jani.

95

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

Ever the option.

96

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

Based solely on my intuition and on any practical experience whatsoever, I estimate that we can get this car, or that Jani can get this car to just over 100 miles an hour.

97

00:06:10,000 --> 00:06:12,000

Is it enough to beat the speed camera?

98

00:06:12,000 --> 00:06:16,000

I suspect that it isn't, but I'm curious to find out.

99

00:06:16,000 --> 00:06:18,000

Let's go fast.

100

00:06:18,000 --> 00:06:25,000

Jamie's going to put the pedal to the metal while Adam tries to keep up in the safety car.

101

00:06:25,000 --> 00:06:33,000

The mustachioed maestro soon leaves Adam in his dust, but did he dust off the speed camera too?

102

00:06:33,000 --> 00:06:34,000

Did you get him?

103

00:06:34,000 --> 00:06:35,000

We got him.

104

00:06:35,000 --> 00:06:37,000

What kind of speed did you get?

105

00:06:37,000 --> 00:06:38,000

100 miles an hour.

106

00:06:38,000 --> 00:06:40,000

100 miles an hour?

107

00:06:41,000 --> 00:06:42,000

There he is.

108

00:06:42,000 --> 00:06:43,000

Not bad.

109

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

Oh, and you got his license plate too.

110

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

Let's see Jamie bat his crybaby blues now.

111

00:06:49,000 --> 00:06:50,000

Well, how'd I do?

112

00:06:50,000 --> 00:06:51,000

Ticket or no ticket?

113

00:06:51,000 --> 00:06:54,000

Oh, you got a ticket to speed and scoff law.

114

00:06:54,000 --> 00:06:56,000

We got you right handed right here.

115

00:06:56,000 --> 00:06:58,000

One picture says it all.

116

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

Jamie's been booked fair and square.

117

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

Just for me, so we have a data set of more than one, which is always a goal on this show.

118

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

Let's do it again.

119

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

Do I have to?

120

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

You do.

121

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

Go.

122

00:07:11,000 --> 00:07:14,000

How'd I do that time?

123

00:07:14,000 --> 00:07:15,000

No faster.

124

00:07:15,000 --> 00:07:19,000

It's like there's not a whole lot of options here.

125

00:07:19,000 --> 00:07:20,000

It's like flat.

126

00:07:20,000 --> 00:07:21,000

I don't know, man.

127

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

I mean, maybe you just don't have what it takes.

128

00:07:24,000 --> 00:07:30,000

And the fighting words partner, Adam's hat seems to have given the dude some John Wayne too.

129

00:07:30,000 --> 00:07:34,000

In three, two, and here we go.

130

00:07:35,000 --> 00:07:38,000

Adam's competitive streets been triggered.

131

00:07:38,000 --> 00:07:40,000

The gauntlets down and so is his foot.

132

00:07:40,000 --> 00:07:43,000

Will he beat Jamie and the speed camera?

133

00:07:47,000 --> 00:07:48,000

How did I do?

134

00:07:48,000 --> 00:07:50,000

You did exactly the same as I did.

135

00:07:50,000 --> 00:07:54,000

For some strange reason, 100 miles an hour and we got your picture.

136

00:07:54,000 --> 00:07:56,000

We can't call it on the basis of this test alone.

137

00:07:56,000 --> 00:07:57,000

We need more power.

138

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

We need a different car.

139

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

We need a real car.

140

00:08:01,000 --> 00:08:03,000

Coming up on Mythbusters.

141

00:08:03,000 --> 00:08:04,000

That goes into your chest.

142

00:08:04,000 --> 00:08:06,000

A shocking investigation.

143

00:08:09,000 --> 00:08:12,000

And Adam puts plate blockers up against the wall.

144

00:08:24,000 --> 00:08:29,000

Okay, guys, I got a myth that's really going to shock you because it's about defibrillators.

145

00:08:29,000 --> 00:08:32,000

Okay, that's like in the EMT shows with the...

146

00:08:32,000 --> 00:08:33,000

Clear!

147

00:08:33,000 --> 00:08:36,000

Yeah, but that's only half of it.

148

00:08:36,000 --> 00:08:38,000

It's also about nitroglycerin patches.

149

00:08:38,000 --> 00:08:40,000

Nitroglycerin? That's explosive.

150

00:08:40,000 --> 00:08:42,000

It's for heart patients, right?

151

00:08:42,000 --> 00:08:49,000

Yeah. The myth is that if you're wearing a nitroglycerin patch and somebody defibrillates you, the patch will explode.

152

00:08:59,000 --> 00:09:03,000

If it's explosive, they can get shockingly close.

153

00:09:04,000 --> 00:09:11,000

Nitroglycerin patches dilate arteries, increase blood flow, and when placed on the chest, relieve heart pain.

154

00:09:12,000 --> 00:09:16,000

But can these patches be detonated by the electricity from a defibrillator?

155

00:09:16,000 --> 00:09:22,000

It's true that these machines come with a warning to remove such patches before shocking a patient.

156

00:09:22,000 --> 00:09:24,000

But what happens if you don't?

157

00:09:24,000 --> 00:09:31,000

Well, first step in this explosive myth from the ER is to get a defibrillator, but already there's a problem.

158

00:09:32,000 --> 00:09:36,000

Wait a minute, who's going to let us use their defibrillator? I mean, we break everything we touch.

159

00:09:36,000 --> 00:09:41,000

Okay, let's borrow one, we'll characterize it, and then we'll make our own.

160

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

You say weed, you mean you?

161

00:09:43,000 --> 00:09:44,000

Yes.

162

00:09:44,000 --> 00:09:48,000

Now, making a do-it-yourself defibrillator isn't all that hard.

163

00:09:48,000 --> 00:09:53,000

All you need is a degree in electrical engineering and a knowledge of just how vicious voltage is.

164

00:09:53,000 --> 00:09:58,000

It's going to be potentially the most lethal thing I've ever built.

165

00:09:59,000 --> 00:10:04,000

Grants defibrillator will take AC power and boost it to more than 4,000 volts.

166

00:10:04,000 --> 00:10:13,000

The high voltage will then be stored in a capacitor so that when it's triggered, it can instantly dump a heart-jumping charge into the patient's chest.

167

00:10:13,000 --> 00:10:17,000

This thing, if it works, will definitely kill you.

168

00:10:19,000 --> 00:10:21,000

We're making Frankenstein's laboratory.

169

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

While Grant deals with the diodes, Tori and Carrie make the electrical ER safer.

170

00:10:27,000 --> 00:10:29,000

We should be safe.

171

00:10:29,000 --> 00:10:35,000

With the ER rubbered up and ready, Grants cooked up a unique pair of defibrillator paddles.

172

00:10:35,000 --> 00:10:37,000

Check this out.

173

00:10:37,000 --> 00:10:39,000

Clear!

174

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

What's with the serrated edges?

175

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

It's a little scary.

176

00:10:43,000 --> 00:10:48,000

Well, you know, I mean, normally the heart paddles don't have serrated edges, but this is a homemade defibrillator,

177

00:10:48,000 --> 00:10:51,000

so you have to go with what you can get.

178

00:10:51,000 --> 00:10:58,000

Once Grants defibrillator is up and running, the plan is to unleash it on some nitro patches placed on a torso,

179

00:10:58,000 --> 00:11:01,000

made of that mythbusters favorite Ballistics gel.

180

00:11:01,000 --> 00:11:03,000

Well, that came out easier than I expected.

181

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

But before all that, the team first needs to see if Grants gizmo works.

182

00:11:08,000 --> 00:11:14,000

In theory, it's capable of delivering a bigger shock than you'd get from the third rail of the subway track.

183

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

Everybody ready?

184

00:11:16,000 --> 00:11:19,000

More than enough to kill you if you're not careful.

185

00:11:19,000 --> 00:11:21,000

Three, two, one.

186

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

Ah!

187

00:11:22,000 --> 00:11:24,000

Wow, that was great.

188

00:11:24,000 --> 00:11:25,000

Okay.

189

00:11:25,000 --> 00:11:26,000

That was a good one.

190

00:11:26,000 --> 00:11:28,000

I think it's ready.

191

00:11:28,000 --> 00:11:30,000

That goes into your chest?

192

00:11:30,000 --> 00:11:34,000

So Grants DIY defibrillator is certainly sparking.

193

00:11:34,000 --> 00:11:35,000

Okay, bring on the body.

194

00:11:35,000 --> 00:11:42,000

But for the explosive tests to be valid, it's crucial that his machine has exactly the same capabilities as this.

195

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

The defibrillator used in ERs up and down the country.

196

00:11:46,000 --> 00:11:47,000

Thank you.

197

00:11:47,000 --> 00:11:49,000

Ready to put the heart paddles in?

198

00:11:49,000 --> 00:11:50,000

Yeah.

199

00:11:50,000 --> 00:11:57,000

To find out, the team inserts two copper heart paddles in the torso's chest, which are hardwired to an oscilloscope.

200

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

Are you ready for your test?

201

00:11:59,000 --> 00:12:04,000

It'll register precisely how much juice is jumping, first from the commercial defibrillator.

202

00:12:04,000 --> 00:12:05,000

Anyone clear?

203

00:12:05,000 --> 00:12:06,000

Clear.

204

00:12:06,000 --> 00:12:07,000

Got it.

205

00:12:07,000 --> 00:12:08,000

Did you get it?

206

00:12:08,000 --> 00:12:09,000

Yep.

207

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

We start testing.

208

00:12:10,000 --> 00:12:11,000

Nice.

209

00:12:11,000 --> 00:12:16,000

The oscilloscope is telling me that it had a peak of 4 millivolts.

210

00:12:16,000 --> 00:12:21,000

Now, what it's also saying is that the event lasted for two microseconds.

211

00:12:21,000 --> 00:12:25,000

Do you think I'll get first place in the science fair?

212

00:12:25,000 --> 00:12:27,000

Now they know what they're aiming for.

213

00:12:27,000 --> 00:12:35,000

Grants patty flipping paddles are attached to the torso to see if his DIY defibrillator can deliver the same result.

214

00:12:35,000 --> 00:12:37,000

This just doesn't look dangerous enough.

215

00:12:37,000 --> 00:12:41,000

Should we get some buckets of water to stand in or maybe set up the sprinkler system?

216

00:12:41,000 --> 00:12:43,000

Just put your safety glasses on.

217

00:12:43,000 --> 00:12:44,000

Mr. Safety.

218

00:12:44,000 --> 00:12:47,000

Just hope this isn't the before moment.

219

00:12:47,000 --> 00:12:50,000

We should probably set up the high speed on carry.

220

00:12:50,000 --> 00:12:52,000

Now remember.

221

00:12:52,000 --> 00:12:54,000

1000 volts.

222

00:12:54,000 --> 00:12:58,000

They built their own defibrillator so as not to wreck the real one.

223

00:12:58,000 --> 00:13:00,000

2500.

224

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

But is it safe to use?

225

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

Now might be a good time for Carrie's family and friends to turn away.

226

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

You're at 4000.

227

00:13:09,000 --> 00:13:10,000

Pull the switch.

228

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

Turn off power supply.

229

00:13:11,000 --> 00:13:12,000

Okay.

230

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

Carrie, are you ready?

231

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

Everybody clear.

232

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

Have your toolbox.

233

00:13:16,000 --> 00:13:19,000

Three, two, one.

234

00:13:19,000 --> 00:13:21,000

She's alive.

235

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

She made it.

236

00:13:23,000 --> 00:13:24,000

Okay, you're good.

237

00:13:24,000 --> 00:13:25,000

Good job.

238

00:13:25,000 --> 00:13:26,000

I was worried for you for a second.

239

00:13:26,000 --> 00:13:28,000

Yeah, I'm sure my mom watches us later.

240

00:13:28,000 --> 00:13:31,000

She's gonna be like, oh, not again.

241

00:13:31,000 --> 00:13:34,000

We just did the first test with Grant's homemade defibrillator.

242

00:13:34,000 --> 00:13:37,000

And to say it was a little bit scared going into it.

243

00:13:37,000 --> 00:13:39,000

It looks very Frankensteiny.

244

00:13:39,000 --> 00:13:42,000

And all the laws of physics said not gonna get shocked.

245

00:13:42,000 --> 00:13:43,000

I'm holding onto wood.

246

00:13:43,000 --> 00:13:44,000

I'm standing on a rubber.

247

00:13:44,000 --> 00:13:49,000

But can't help the heart be going, what if, what if, what if.

248

00:13:49,000 --> 00:13:57,000

The good news is this proves that it does deliver the shock into the ballistic shell body.

249

00:13:57,000 --> 00:13:58,000

Yeah, that's great.

250

00:13:58,000 --> 00:13:59,000

How's your heart?

251

00:13:59,000 --> 00:14:00,000

Is it still pumping?

252

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

Yeah, it's going like, e-e-e-e-e.

253

00:14:02,000 --> 00:14:04,000

So Grant's defibrillator has passed.

254

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

It's as good as the industry standard.

255

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

It's open season on speedsters.

256

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

First there was the squad car.

257

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

Then the radar.

258

00:14:15,000 --> 00:14:19,000

And now they've raised the bar with speed cameras.

259

00:14:19,000 --> 00:14:22,000

Adam and Jamie have tried to beat it through speed,

260

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

but until they get a faster car, that myth's on hold.

261

00:14:27,000 --> 00:14:31,000

That leaves plenty of time for viewer myth number two.

262

00:14:31,000 --> 00:14:35,000

Well next up is a whole set of products which we call plate blockers.

263

00:14:35,000 --> 00:14:41,000

These are things that you would put over your license plate that would obscure it only to the camera when it tried to take your picture.

264

00:14:41,000 --> 00:14:43,000

Therefore, they don't know who to send the ticket to.

265

00:14:43,000 --> 00:14:47,000

So what, we just go out and drive by them with this stuff over the plate?

266

00:14:47,000 --> 00:14:49,000

Yeah, actually not so fast.

267

00:14:49,000 --> 00:14:52,000

I think I'd like to try some scale tests out on these guys.

268

00:14:52,000 --> 00:14:57,000

I put them down in the shop with my digital camera and my flash and see if I can't get the results that they claim here in the shop.

269

00:14:57,000 --> 00:15:01,000

Adam has five plate blocking devices in his sights.

270

00:15:01,000 --> 00:15:07,000

All claim to somehow prevent the police paparazzi from tracking you down.

271

00:15:07,000 --> 00:15:13,000

First up is this thing which supposedly has micro crystals to reflect the camera's flash.

272

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

See what it does?

273

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

Here I am.

274

00:15:16,000 --> 00:15:17,000

Now I'm gone.

275

00:15:17,000 --> 00:15:19,000

Oh my god, where did I go?

276

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

Oh, here I am.

277

00:15:20,000 --> 00:15:25,000

Adam's clearly unimpressed and reading the small print doesn't help.

278

00:15:25,000 --> 00:15:30,000

The manufacturer and retailer soon know responsibility for any user application of this product in violation with any applicable law before installing this product.

279

00:15:30,000 --> 00:15:32,000

Please take care of state and local laws and regulations.

280

00:15:32,000 --> 00:15:33,000

I'll save you some time.

281

00:15:33,000 --> 00:15:34,000

It's probably illegal.

282

00:15:34,000 --> 00:15:36,000

Illegal, maybe.

283

00:15:36,000 --> 00:15:38,000

Effective, let's see.

284

00:15:38,000 --> 00:15:42,000

This is glitter license plate with the flash on.

285

00:15:44,000 --> 00:15:46,000

I don't have any problem reading that.

286

00:15:47,000 --> 00:15:52,000

Oh man, you know, it's funny but it also makes me really mad.

287

00:15:52,000 --> 00:15:54,000

It's ridiculous.

288

00:15:54,000 --> 00:15:58,000

Let's do due diligence on this piece of crap and try it from far away.

289

00:15:58,000 --> 00:16:03,000

The thing is, the micro crystals don't seem to be reflecting much at all.

290

00:16:03,000 --> 00:16:05,000

It's pretty much totally readable.

291

00:16:05,000 --> 00:16:15,000

I can see it's trying to reflect a light, but it's not succeeding because I can still read California, June, no doubt.

292

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

In this case, all the glitters definitely ain't gold.

293

00:16:20,000 --> 00:16:23,000

So what about plastic plate blocker number two?

294

00:16:23,000 --> 00:16:27,000

Oh, I see what it's doing.

295

00:16:27,000 --> 00:16:31,000

I'll eat my hat if this is legal in even one state.

296

00:16:31,000 --> 00:16:36,000

Oh, I'm never so slightly side onto this thing.

297

00:16:36,000 --> 00:16:39,000

It's definitely obscuring a couple of the letters of the license plate.

298

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

There's no doubt about it.

299

00:16:41,000 --> 00:16:46,000

And the effect is that Kent's search the database by as many letters as they can see on your license plate.

300

00:16:46,000 --> 00:16:47,000

They've got you.

301

00:16:47,000 --> 00:16:52,000

In fact, this would f**k me off enough to come and find you.

302

00:16:52,000 --> 00:16:54,000

Don't hold back, Adam.

303

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

Tell us how you really feel.

304

00:16:56,000 --> 00:17:00,000

The other plate blockers also failed to impress.

305

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

There was regular kitchen plastic wrap.

306

00:17:03,000 --> 00:17:06,000

It is not obscured at all.

307

00:17:06,000 --> 00:17:08,000

A tailor-made commercial spray.

308

00:17:08,000 --> 00:17:10,000

It's totally readable.

309

00:17:10,000 --> 00:17:13,000

And run-of-the-mill hairspray.

310

00:17:13,000 --> 00:17:15,000

It's clear as day.

311

00:17:15,000 --> 00:17:19,000

All got the Adam Savage seal off disapproving.

312

00:17:19,000 --> 00:17:22,000

Granted, this is probably not what they're using professionally.

313

00:17:22,000 --> 00:17:28,000

So I can't call it busted on the basis of this, but it really doesn't look good.

314

00:17:28,000 --> 00:17:34,000

So for a definitive test, they'll run the plate blockers past the same setup that's used on the

street.

315

00:17:35,000 --> 00:17:38,000

The micro crystal glitter plates first up.

316

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

Oh!

317

00:17:43,000 --> 00:17:49,000

Rapid police one glitter obfuscation technique, zero.

318

00:17:49,000 --> 00:17:52,000

Next up is the lenticular obfuscation technique.

319

00:17:52,000 --> 00:17:57,000

This lenticular thing did obfuscate the license plate more than anything else,

320

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

but I still don't have high hopes that it'll beat our speed camera.

321

00:18:01,000 --> 00:18:04,000

You got a ticket, buddy!

322

00:18:04,000 --> 00:18:06,000

Time to move on to the next one.

323

00:18:06,000 --> 00:18:09,000

That'd be Mr. Savage's makeup call.

324

00:18:09,000 --> 00:18:15,000

Obviously, Mythbusters brand hairspray is very important to how I look on set and on television.

325

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

But although it looked good on Adam, it didn't cut it with the speed camera.

326

00:18:20,000 --> 00:18:23,000

And neither did the commercial spray.

327

00:18:23,000 --> 00:18:25,000

Starting to see a pattern here.

328

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

Yeah, plate blockers zip.

329

00:18:27,000 --> 00:18:29,000

Speed camera four.

330

00:18:29,000 --> 00:18:32,000

Make that five with the plastic wrap.

331

00:18:32,000 --> 00:18:33,000

Clear as a bell.

332

00:18:33,000 --> 00:18:34,000

Clear as a bell.

333

00:18:34,000 --> 00:18:35,000

Cling wrap is busted.

334

00:18:35,000 --> 00:18:38,000

Not a single one of the plate blockers has worked.

335

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

So it's plate blockers zero speed cameras five.

336

00:18:42,000 --> 00:18:48,000

With the plate blockers well and truly busted, the boys are counting down the viewer's speed camera myths.

337

00:18:49,000 --> 00:18:56,000

You know we shot so many myths for this episode that the whole thing about being in a speed camera by changing lanes isn't going to make the final cut.

338

00:18:56,000 --> 00:18:57,000

Really?

339

00:18:57,000 --> 00:18:59,000

Yeah, but it is available online.

340

00:18:59,000 --> 00:19:04,000

And you can see it by going to www.discovery.com slash Mythbusters.

341

00:19:05,000 --> 00:19:07,000

Later on Mythbusters.

342

00:19:07,000 --> 00:19:09,000

Hey you guys, we got a little problem here.

343

00:19:09,000 --> 00:19:12,000

Why electricity and water don't mix.

344

00:19:12,000 --> 00:19:14,000

That seems really, really, really dangerous.

345

00:19:14,000 --> 00:19:17,000

But next, do speed cameras snap birds.

346

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

In a dive, the peregrine's been clocked at 240 miles an hour.

347

00:19:27,000 --> 00:19:30,000

It's enough to make your hair stand on end.

348

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

Electricity on its own is lethal.

349

00:19:32,000 --> 00:19:37,000

Put it near high explosive and you're just asking for trouble.

350

00:19:39,000 --> 00:19:42,000

That's exactly what our brave band of Mythbusters are doing.

351

00:19:42,000 --> 00:19:44,000

Two, one.

352

00:19:45,000 --> 00:19:50,000

Nitroglycerin is found in dynamite, but it's also used to treat heart patients.

353

00:19:50,000 --> 00:19:57,000

But according to this ER myth, if you hit a nitro patch with an electric shock from a defibrillator, it'll explode.

354

00:19:58,000 --> 00:20:06,000

With explosives, electricity and Mythbusters, it's time to move the whole shebang to the bomb proof backyard bunker.

355

00:20:06,000 --> 00:20:10,000

It's finally time to start our nitroglycerin patch tests.

356

00:20:10,000 --> 00:20:12,000

Now we're going to start with the modern nitroglycerin patches.

357

00:20:12,000 --> 00:20:14,000

They're the most common to get.

358

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

We're going to use one patch and we're going to defibrillate our patient here at 200 joules.

359

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

With a cataclysmic catastrophe on the cards, they're taking no chances.

360

00:20:25,000 --> 00:20:32,000

For this one, the Ballistics Gel Torso and Grant's DIY defibrillator are going to be home alone.

361

00:20:32,000 --> 00:20:35,000

We've taken a few safety precautions so that we can do it remotely.

362

00:20:35,000 --> 00:20:41,000

We have our paddles. They are clamped to the body and then Grant has the remote trigger outside of the bunker.

363

00:20:41,000 --> 00:20:46,000

So we'll set it all up, charge it, we'll get out of the bunker, set it off remotely.

364

00:20:46,000 --> 00:20:50,000

So if there is an explosion, none of us get killed.

365

00:20:50,000 --> 00:20:56,000

Sounds good. The only trouble is it's pouring with rain and the bunker ain't exactly waterproof.

366

00:20:56,000 --> 00:20:58,000

Hey you guys, we got a little problem here.

367

00:20:58,000 --> 00:20:59,000

A problem!

368

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

What's going on?

369

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

It's raining on my neon transformer so I need it.

370

00:21:03,000 --> 00:21:04,000

Is that a problem?

371

00:21:04,000 --> 00:21:05,000

Yeah, kind of.

372

00:21:05,000 --> 00:21:06,000

You want an umbrella?

373

00:21:06,000 --> 00:21:07,000

Oh jeez.

374

00:21:07,000 --> 00:21:08,000

Something.

375

00:21:08,000 --> 00:21:10,000

That seems really, really, really dangerous.

376

00:21:10,000 --> 00:21:14,000

Yeah, not entirely safe. In fact, let me unplug this.

377

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

Okay.

378

00:21:15,000 --> 00:21:19,000

Diagnosing a problem was easy. Fixing it, well, that's a different story.

379

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

If it explodes, it's safer than being in a shock.

380

00:21:22,000 --> 00:21:28,000

Pools of water, massive amounts of electricity. I don't see a danger in that at all.

381

00:21:28,000 --> 00:21:33,000

With the deluge finally diverted, Grant's confident it's safe enough to proceed.

382

00:21:33,000 --> 00:21:39,000

Nitroglycerin patch test. 200 joules in 3, 2, 1.

383

00:21:41,000 --> 00:21:45,000

I didn't see any explosions. I didn't see any arcing, anything at all.

384

00:21:45,000 --> 00:21:46,000

No.

385

00:21:46,000 --> 00:21:51,000

We didn't get any explosion at 200 joules. Let's ramp it up to 360. Give it the maximum power.

386

00:21:51,000 --> 00:21:54,000

But cranking the power to the max.

387

00:21:54,000 --> 00:21:56,000

No explosion, guys.

388

00:21:56,000 --> 00:21:59,000

Even putting the paddles right on the patch.

389

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

It arched, it sparked, it didn't ignite.

390

00:22:02,000 --> 00:22:06,000

Well, I think one of the problems here is it's just not going to arch to the plastic.

391

00:22:06,000 --> 00:22:11,000

It's just not going to do anything there. And there is an old nitroglycerin patch

392

00:22:11,000 --> 00:22:16,000

that has sort of an aluminum in the plastic. Maybe that would arch from the spark.

393

00:22:16,000 --> 00:22:20,000

More conductivity would definitely give it a higher likelihood of arching.

394

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

Should be easy to get a couple of those, no?

395

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

Actually, Tori, that's a no.

396

00:22:24,000 --> 00:22:28,000

Aluminum-backed nitroglycerin patches were phased out in the 1980s.

397

00:22:28,000 --> 00:22:31,000

So, Carrie's making some of her own.

398

00:22:31,000 --> 00:22:32,000

And this is...

399

00:22:32,000 --> 00:22:33,000

Conductive?

400

00:22:33,000 --> 00:22:35,000

That's what I was going to let you find out for me.

401

00:22:35,000 --> 00:22:37,000

Ooh, look at that.

402

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

Oh, that's cool.

403

00:22:39,000 --> 00:22:42,000

Now, I'm sure that stun gun Tori's using comes with a warning.

404

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

That is cool. Look at that.

405

00:22:44,000 --> 00:22:47,000

Something along the lines of not a toy.

406

00:22:47,000 --> 00:22:48,000

Look at that burning.

407

00:22:48,000 --> 00:22:49,000

Use with caution.

408

00:22:49,000 --> 00:22:50,000

Look, I wrote my name.

409

00:22:50,000 --> 00:22:52,000

Keep out of reach of children.

410

00:22:56,000 --> 00:22:59,000

Oh, Tori, are we going to ever have an episode where you don't hurt yourself?

411

00:22:59,000 --> 00:23:02,000

I didn't think it was going to hurt me.

412

00:23:02,000 --> 00:23:04,000

I thought I had that one under control.

413

00:23:04,000 --> 00:23:07,000

Also not under control is the weather.

414

00:23:07,000 --> 00:23:10,000

Oh, great. The water level has risen.

415

00:23:10,000 --> 00:23:16,000

Folks, it goes without saying, never, ever, ever try this at home.

416

00:23:16,000 --> 00:23:20,000

Somebody want to get a 2x4 just in case they need to knock us apart?

417

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

Perhaps the least lethal thing to happen now would be if Carrie's homemade foil-backed patches

exploded.

418

00:23:28,000 --> 00:23:31,000

Three, two, one.

419

00:23:32,000 --> 00:23:34,000

Did you see a spark or anything?

420

00:23:34,000 --> 00:23:35,000

Nope.

421

00:23:35,000 --> 00:23:36,000

See an explosion?

422

00:23:36,000 --> 00:23:37,000

No.

423

00:23:37,000 --> 00:23:46,000

Just like the modern plastic patches, maximum voltage, foil-side up, or foil-side down.

424

00:23:46,000 --> 00:23:48,000

No reaction.

425

00:23:48,000 --> 00:23:52,000

Even putting the paddles ridiculously close causes no kaboom.

426

00:23:52,000 --> 00:23:54,000

It arced right over that patch.

427

00:23:54,000 --> 00:23:55,000

I didn't see an explosion.

428

00:23:55,000 --> 00:23:57,000

No explosion.

429

00:23:57,000 --> 00:24:01,000

I don't think that the concentration of the nitric glycerin is high enough to actually get any sort of explosion.

430

00:24:01,000 --> 00:24:05,000

I mean, that's it. This myth is going down.

431

00:24:05,000 --> 00:24:08,000

The myth may be going down, but it's not over yet.

432

00:24:08,000 --> 00:24:13,000

Because when it comes to the mythbusters and explosions, no one goes home disappointed.

433

00:24:13,000 --> 00:24:17,000

We're going to blow that nitro patch up so you bet we are, buddy.

434

00:24:17,000 --> 00:24:19,000

Still to come on Mythbusters.

435

00:24:19,000 --> 00:24:21,000

I'm actually picking it up at about 40 miles an hour.

436

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

Caught on radar, but do birds trip speed cameras?

437

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

They break the G-meters at like 18 Gs.

438

00:24:26,000 --> 00:24:30,000

And the exploding patches myth calls for drastic surgery.

439

00:24:30,000 --> 00:24:32,000

You played Doctor Before?

440

00:24:36,000 --> 00:24:40,000

Please, don't try anything that you're about to see us do at home.

441

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

Ever.

442

00:24:45,000 --> 00:24:50,000

Adam and Jamie are getting wrapped up in their quest to beat speed camera myths.

443

00:24:50,000 --> 00:24:51,000

Can someone unwrap me?

444

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

Turn off the camera and help me get out of this thing.

445

00:24:54,000 --> 00:25:00,000

So far, it seems there's no way to get one over on the super sensitive speed slayer.

446

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

But just how responsive are they?

447

00:25:02,000 --> 00:25:06,000

It's time to test viewer myth number three.

448

00:25:06,000 --> 00:25:11,000

You know, I heard once that those speed cameras are so sensitive that they'll pick up a bird,

449

00:25:11,000 --> 00:25:13,000

fly in past them and take a picture of it.

450

00:25:13,000 --> 00:25:16,000

You know, I hate to play devil's advocate on this, but I can't see it working.

451

00:25:16,000 --> 00:25:20,000

I think a bird is just too tiny to be picked up by the radar.

452

00:25:20,000 --> 00:25:23,000

We should get some trained birds and fly them through the path.

453

00:25:23,000 --> 00:25:26,000

Okay, and maybe a really fast trained bird.

454

00:25:26,000 --> 00:25:31,000

One, make that two really fast birds coming up.

455

00:25:31,000 --> 00:25:32,000

There you go.

456

00:25:32,000 --> 00:25:35,000

She's got a hat here this morning, but she'll shake it out.

457

00:25:35,000 --> 00:25:42,000

Meet female falcons Strager and Falstaff and their master falconer James Tighon.

458

00:25:42,000 --> 00:25:45,000

People are always asking us how fast they are over the ground.

459

00:25:45,000 --> 00:25:49,000

In a dive, the peregrine's been clocked at 240 miles an hour.

460

00:25:49,000 --> 00:25:53,000

They've put G meters on them and they break G meters at like 18 G's.

461

00:25:53,000 --> 00:26:00,000

The birds certainly have made Adam and Jamie sit up and take notice, but will the speed cameras see them?

462

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

I don't think the speed camera is going to pick up the bird.

463

00:26:03,000 --> 00:26:06,000

My guess is based on the practicality of operating a speed camera.

464

00:26:06,000 --> 00:26:09,000

When you get the disc out of the camera and you're looking at all the license plates,

465

00:26:09,000 --> 00:26:11,000

you don't want a lot of pretty pictures of birds.

466

00:26:11,000 --> 00:26:16,000

Something tells me they designed that out of the system and that they don't pick up birds flying.

467

00:26:16,000 --> 00:26:19,000

Well, there's only one sure way to find out.

468

00:26:19,000 --> 00:26:23,000

I think what we'll do is we'll send my associate Kate downwind.

469

00:26:23,000 --> 00:26:24,000

She'll release the bird.

470

00:26:24,000 --> 00:26:25,000

I'll call the bird.

471

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

We'll do a straight downwind run.

472

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

She'll come right on marks, hopefully.

473

00:26:28,000 --> 00:26:29,000

Let's do it.

474

00:26:29,000 --> 00:26:33,000

With the speed camera in position and poised to take a picture,

475

00:26:33,000 --> 00:26:38,000

Falcon Airways Flight 001 is cleared for takeoff.

476

00:26:41,000 --> 00:26:43,000

I'm actually picking her up at about 40 miles an hour.

477

00:26:43,000 --> 00:26:50,000

Adam's radar is clocking her at 40 and the camera's preset to go off at just 10 miles an hour.

478

00:26:50,000 --> 00:26:52,000

She was going 40 miles an hour.

479

00:26:52,000 --> 00:26:55,000

If this could pick her up, that was a good speed to pick her up at.

480

00:26:55,000 --> 00:26:57,000

And it was right down the throat.

481

00:26:57,000 --> 00:26:58,000

It should have got it.

482

00:26:58,000 --> 00:26:59,000

How do we do?

483

00:26:59,000 --> 00:27:02,000

Take a picture at 29 miles an hour.

484

00:27:04,000 --> 00:27:10,000

But there's a big difference between Adam's radar speed of 40 and the camera's 29.

485

00:27:10,000 --> 00:27:13,000

So what exactly did they take a photo of?

486

00:27:13,000 --> 00:27:16,000

One thing I'm not sure of, was he swinging the bait?

487

00:27:16,000 --> 00:27:17,000

He was.

488

00:27:17,000 --> 00:27:18,000

So you might have picked up the bait?

489

00:27:18,000 --> 00:27:19,000

I don't know.

490

00:27:19,000 --> 00:27:20,000

Well, I mean, there's an easy way to test for that.

491

00:27:20,000 --> 00:27:22,000

We could just have him stand farther down the camera, can't see him.

492

00:27:22,000 --> 00:27:25,000

Or we could just have him swing the bait with no bird in the picture.

493

00:27:25,000 --> 00:27:28,000

Or we could try something really simple like that.

494

00:27:28,000 --> 00:27:29,000

Let's do that.

495

00:27:29,000 --> 00:27:30,000

Yeah, that'll do.

496

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

I'm going to go sit in the trailer now.

497

00:27:32,000 --> 00:27:38,000

While Adam eats a slice of humble pie, the others find out if it was the chick that made the camera clean.

498

00:27:38,000 --> 00:27:39,000

Faster.

499

00:27:40,000 --> 00:27:45,000

But even with the bait in full swing, there's still no camera catching.

500

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

So it's picking up speeds, but it's not photoing.

501

00:27:48,000 --> 00:27:53,000

There's not enough of a signature to give a quality threshold high enough to trigger the camera.

502

00:27:53,000 --> 00:27:56,000

But it seems like the bird absolutely did.

503

00:27:56,000 --> 00:27:57,000

Stunning.

504

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

I love being wrong.

505

00:27:59,000 --> 00:28:06,000

But just to make really sure, Adam wants one more run to clear up the camera conundrum.

506

00:28:11,000 --> 00:28:15,000

I heard the camera go.

507

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

We got it?

508

00:28:16,000 --> 00:28:17,000

Yeah.

509

00:28:17,000 --> 00:28:18,000

Awesome!

510

00:28:18,000 --> 00:28:22,000

Two for two with animals, no less.

511

00:28:22,000 --> 00:28:25,000

Oh man, amazing.

512

00:28:25,000 --> 00:28:27,000

That's pretty conclusive to me.

513

00:28:27,000 --> 00:28:30,000

The speed camera was in fact able to pick up a bird.

514

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

That's good stuff.

515

00:28:31,000 --> 00:28:33,000

That would be myth confirmed.

516

00:28:33,000 --> 00:28:35,000

Let's give the bird a ticket.

517

00:28:35,000 --> 00:28:41,000

At 41 miles an hour, this speedster has just had her first brush with the law.

518

00:28:41,000 --> 00:28:45,000

What we think is we're going to put a license plate on her right about here.

519

00:28:45,000 --> 00:28:47,000

It's a little bitty one, you know.

520

00:28:47,000 --> 00:28:50,000

If you can see me, you're too close, something like that.

521

00:28:52,000 --> 00:28:55,000

You did very good, sweetie.

522

00:29:05,000 --> 00:29:08,000

Three, two, one.

523

00:29:08,000 --> 00:29:12,000

And can Adam and Jayne finally beat the speed camera?

524

00:29:12,000 --> 00:29:13,000

Ah!

525

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

It never pays to monkey around with electricity, especially near explosives.

526

00:29:28,000 --> 00:29:35,000

But for Carrie, Tori and Grant, detonating nitroglycerin medical patches with an electric defibrillator

527

00:29:35,000 --> 00:29:38,000

has so far only blown away a lot of time.

528

00:29:38,000 --> 00:29:39,000

Nothing happened.

529

00:29:39,000 --> 00:29:40,000

No explosion.

530

00:29:40,000 --> 00:29:41,000

Shocker.

531

00:29:41,000 --> 00:29:44,000

They want an explosion and they want it now.

532

00:29:44,000 --> 00:29:49,000

Forget this medicinal nitroglycerin, let's get the pure stuff.

533

00:29:49,000 --> 00:29:51,000

The stuff we all know is explosive.

534

00:29:51,000 --> 00:29:55,000

We'll smear that on the body and then try to defibrillate again.

535

00:29:55,000 --> 00:29:59,000

Well, I'm pretty sure no one is going to sell us pure nitroglycerin.

536

00:29:59,000 --> 00:30:01,000

I think we're already in all the watch lists.

537

00:30:01,000 --> 00:30:05,000

So maybe it's time to call former FBI agent Frank Doyle.

538

00:30:05,000 --> 00:30:12,000

You may remember Frank from such great Mythbusters moments as the case of the exploding trousers.

539

00:30:12,000 --> 00:30:13,000

Woo!

540

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

22,000 foot fall.

541

00:30:18,000 --> 00:30:26,000

And the mother of all explosions when Frank totally trashed a truck.

542

00:30:31,000 --> 00:30:38,000

Today, Frank's back to help change the Mythbusters script from mission impossible to the mission accomplished.

543

00:30:38,000 --> 00:30:39,000

It's cooking juice.

544

00:30:39,000 --> 00:30:40,000

Yeah.

545

00:30:40,000 --> 00:30:45,000

Access to nitroglycerin is strictly controlled and it's highly dangerous to transport.

546

00:30:45,000 --> 00:30:46,000

Good stuff.

547

00:30:46,000 --> 00:30:56,000

So Frank's brought his buddy James Kripp and along to refine a premium blend from another explosive that contains a high proportion of nitroglycerin.

548

00:30:56,000 --> 00:30:59,000

I think our chances are pretty good. We can probably get it to go bang.

549

00:31:01,000 --> 00:31:04,000

Impacts the best way to detonate nitroglycerin.

550

00:31:04,000 --> 00:31:10,000

So to see if Frank's batch is up to scratch, the job falls to Grant's automatic hammer.

551

00:31:10,000 --> 00:31:11,000

Ready for this?

552

00:31:11,000 --> 00:31:14,000

Three, two, one.

553

00:31:16,000 --> 00:31:18,000

That wasn't an explosion.

554

00:31:18,000 --> 00:31:20,000

Hey, we got a puff.

555

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

It did sound like a cap.

556

00:31:22,000 --> 00:31:25,000

So did it or didn't it explode?

557

00:31:25,000 --> 00:31:26,000

Okay, hit the target.

558

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

Yeah, smell smoky.

559

00:31:28,000 --> 00:31:32,000

Frank's keeping the jury out until he's seen the high speed.

560

00:31:32,000 --> 00:31:34,000

The hammer's coming down.

561

00:31:34,000 --> 00:31:36,000

Yeah, that's great.

562

00:31:36,000 --> 00:31:37,000

That's awesome.

563

00:31:37,000 --> 00:31:38,000

Nice work, Frank.

564

00:31:38,000 --> 00:31:40,000

So that's what we were looking for.

565

00:31:40,000 --> 00:31:41,000

Good juice.

566

00:31:41,000 --> 00:31:43,000

Definitely good juice.

567

00:31:43,000 --> 00:31:51,000

So Frank's nitroglycerin sure is explosive, but can it be detonated by an electric spark from a defibrillator?

568

00:31:51,000 --> 00:31:58,000

The ballistic gel torso is wheeled into place and once again, the paddles are placed close enough to spark.

569

00:31:58,000 --> 00:32:00,000

Do you want to put a little drop right at where the two paddles touch?

570

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

The team has put just a patch size drop of the nitroglycerin oil on the torso's chest, but will this be enough for a boom?

571

00:32:09,000 --> 00:32:11,000

We got a good arc and a good contact there.

572

00:32:11,000 --> 00:32:14,000

Should work, theoretically.

573

00:32:14,000 --> 00:32:16,000

So we're hot.

574

00:32:16,000 --> 00:32:17,000

You guys ready?

575

00:32:17,000 --> 00:32:18,000

Yep.

576

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

Okay, so this is 360 Joules, maximum power.

577

00:32:21,000 --> 00:32:25,000

Three, two, one.

578

00:32:25,000 --> 00:32:27,000

I saw a spark.

579

00:32:27,000 --> 00:32:29,000

Yeah, I saw a spark.

580

00:32:29,000 --> 00:32:31,000

I didn't see any smoke.

581

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

No explosion.

582

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

No.

583

00:32:33,000 --> 00:32:42,000

Now if concentrated nitroglycerin cannot ignite with the defibrillator, the patches are never going to explode off your chest.

584

00:32:42,000 --> 00:32:44,000

It's not going to happen.

585

00:32:44,000 --> 00:32:46,000

It's just another flash in the pan.

586

00:32:46,000 --> 00:32:53,000

If the defibrillator can't detonate this concentrated nitroglycerin, then it'll never detonate a patch.

587

00:32:53,000 --> 00:32:55,000

It's myth well and truly busted.

588

00:32:55,000 --> 00:32:57,000

All right, what do you think?

589

00:32:57,000 --> 00:32:58,000

I don't know.

590

00:32:58,000 --> 00:33:01,000

I mean, there's still a pull of nitroglycerin right where the paddles are touching.

591

00:33:01,000 --> 00:33:02,000

And it's still wet underneath.

592

00:33:02,000 --> 00:33:04,000

And there are absolutely no burn marks.

593

00:33:04,000 --> 00:33:08,000

I'm not seeing the carnage from any sort of explosion here.

594

00:33:08,000 --> 00:33:11,000

And I think we've replicated all of the circumstances.

595

00:33:11,000 --> 00:33:13,000

So what's left?

596

00:33:13,000 --> 00:33:16,000

Frank, we need an explosion.

597

00:33:16,000 --> 00:33:19,000

This would be the moment Frank's been waiting for.

598

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

With the myth busted, it's time to replicate the results.

599

00:33:23,000 --> 00:33:26,000

How can a defibrillator cause a kaboom?

600

00:33:26,000 --> 00:33:28,000

Well, luckily Frank came prepared.

601

00:33:28,000 --> 00:33:32,000

We're going to shift over to some real explosive that we know that works.

602

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

We're not going to use a lot.

603

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

It won't take a lot.

604

00:33:34,000 --> 00:33:37,000

But our jello friend there is going to probably go away.

605

00:33:37,000 --> 00:33:40,000

We're going to do a little chest surgery here.

606

00:33:40,000 --> 00:33:45,000

We're going to put the nitroglycerin in there because we want to get rid of the rest of what we have.

607

00:33:45,000 --> 00:33:49,000

And then we're going to put some assistance in there, some additional assistance.

608

00:33:49,000 --> 00:33:53,000

For days, they've been dumping high voltage into their dummy.

609

00:33:53,000 --> 00:33:58,000

Now with his liquid lunch of nitroglycerin plus assistance,

610

00:33:58,000 --> 00:34:02,000

they might finally turn the torso torpedo.

611

00:34:02,000 --> 00:34:06,000

Okay, we will need everybody to move back for safety reasons now.

612

00:34:06,000 --> 00:34:10,000

Three, two, one.

613

00:34:15,000 --> 00:34:16,000

That was awesome.

614

00:34:16,000 --> 00:34:18,000

Now that's what I expected from those patches.

615

00:34:18,000 --> 00:34:20,000

That's great.

616

00:34:20,000 --> 00:34:22,000

That is an explosion.

617

00:34:24,000 --> 00:34:30,000

The torso has been terminated and with flying collage.

618

00:34:30,000 --> 00:34:33,000

That is a beautiful thing.

619

00:34:33,000 --> 00:34:35,000

He's looking at his belly.

620

00:34:35,000 --> 00:34:38,000

That is just an explosion.

621

00:34:38,000 --> 00:34:41,000

That kind of showing is what you expect to see when something explodes.

622

00:34:41,000 --> 00:34:43,000

Frank, you did not disappoint us.

623

00:34:43,000 --> 00:34:44,000

Thank you.

624

00:34:44,000 --> 00:34:46,000

I think we owe you a table though.

625

00:34:54,000 --> 00:34:56,000

Well, we finally got an explosion.

626

00:34:56,000 --> 00:34:59,000

It had nothing to do with nitroglycerin.

627

00:34:59,000 --> 00:35:01,000

Yeah, it had everything to do with the bomb squad.

628

00:35:01,000 --> 00:35:06,000

But at least we can say if the defibrillator did not ignite and create an explosion

629

00:35:06,000 --> 00:35:09,000

with highly concentrated nitroglycerin,

630

00:35:09,000 --> 00:35:12,000

way more than you'd ever find in any medicinal patch,

631

00:35:12,000 --> 00:35:15,000

this myth is totally, totally busted.

632

00:35:15,000 --> 00:35:17,000

It's busted.

633

00:35:24,000 --> 00:35:28,000

The final speed camera, fast car face-up.

634

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

And Jamie unleashes his secret weapon.

635

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

Show me what you've got, cheater.

636

00:35:41,000 --> 00:35:45,000

Before the speed camera, those who lived life in the fast lane

637

00:35:45,000 --> 00:35:47,000

had the highway patrol to contend with.

638

00:35:47,000 --> 00:35:52,000

Nowadays, speedsters find it hard to defy the all-seeing eye.

639

00:35:53,000 --> 00:35:56,000

Adam and Jamie have tested all the viewer myths,

640

00:35:56,000 --> 00:35:59,000

but there's still one that's not quite done.

641

00:35:59,000 --> 00:36:01,000

I got some great news.

642

00:36:01,000 --> 00:36:04,000

The researchers have found us a really fast car.

643

00:36:04,000 --> 00:36:07,000

So we're going to have a second go at speed.

644

00:36:07,000 --> 00:36:10,000

Oh, you mean whether or not the speeding car can beat the speed camera?

645

00:36:10,000 --> 00:36:11,000

Exactly.

646

00:36:11,000 --> 00:36:14,000

You'll never guess what Adam's going to ask next.

647

00:36:14,000 --> 00:36:16,000

Can I drive the car?

648

00:36:16,000 --> 00:36:18,000

Of course.

649

00:36:18,000 --> 00:36:19,000

Yes!

650

00:36:19,000 --> 00:36:22,000

In true MythBusters tradition,

651

00:36:22,000 --> 00:36:26,000

Adam and Jamie are going to push the edge of the fast envelope

652

00:36:26,000 --> 00:36:30,000

in a go-for-broke speed camera, speed car face-up.

653

00:36:30,000 --> 00:36:32,000

Come to Infinity Unrace later,

654

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

I think they have something with a lot more grunt

655

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

than we can put in front of the speed camera and see if we can beat it.

656

00:36:40,000 --> 00:36:42,000

One grunt machine coming up.

657

00:36:43,000 --> 00:36:45,000

Yep, believe it or not,

658

00:36:45,000 --> 00:36:49,000

somehow Mrs. Savage's little boy Adam has been let loose

659

00:36:49,000 --> 00:36:52,000

to pilot a prime piece of auto-realistic.

660

00:36:53,000 --> 00:36:56,000

What, beat the speed camera? What? What?

661

00:36:56,000 --> 00:36:58,000

All right, that's why we're here.

662

00:36:59,000 --> 00:37:00,000

Sir.

663

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

How are we doing?

664

00:37:01,000 --> 00:37:02,000

How are you guys doing?

665

00:37:02,000 --> 00:37:03,000

Good.

666

00:37:03,000 --> 00:37:05,000

But to keep us and the car safe,

667

00:37:05,000 --> 00:37:08,000

chief driving instructor Mark will be riding shotgun.

668

00:37:09,000 --> 00:37:11,000

You think he can handle driving it?

669

00:37:11,000 --> 00:37:13,000

He might be able to give it a shot.

670

00:37:13,000 --> 00:37:17,000

Adam hasn't had so much fun since the last full moon.

671

00:37:20,000 --> 00:37:22,000

I'm so ready to go. Let's go.

672

00:37:25,000 --> 00:37:27,000

I don't know, Adam.

673

00:37:28,000 --> 00:37:30,000

Can you believe they let me in here?

674

00:37:30,000 --> 00:37:33,000

No. What's the value of this car?

675

00:37:33,000 --> 00:37:34,000

280.

676

00:37:34,000 --> 00:37:35,000

280.

677

00:37:35,000 --> 00:37:36,000

Well...

678

00:37:36,000 --> 00:37:38,000

I can work that off.

679

00:37:38,000 --> 00:37:42,000

Well, there's the next 65 years of Adam's life taken care of.

680

00:37:42,000 --> 00:37:45,000

I don't think it's going to work, even with a really fast car.

681

00:37:46,000 --> 00:37:48,000

Jamie remains skeptical,

682

00:37:48,000 --> 00:37:52,000

but if anything stands a chance of beating the speed camera,

683

00:37:52,000 --> 00:37:54,000

then it's this.

684

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

He's a little over 100 miles an hour.

685

00:38:02,000 --> 00:38:05,000

That's not much better than your average auto-realistic.

686

00:38:06,000 --> 00:38:08,000

Is that all you've got, Adam?

687

00:38:08,000 --> 00:38:11,000

So what do you say? Ticket or no ticket?

688

00:38:11,000 --> 00:38:13,000

Ticket. There's the evidence.

689

00:38:13,000 --> 00:38:14,000

So it is.

690

00:38:14,000 --> 00:38:16,000

There he goes again.

691

00:38:18,000 --> 00:38:21,000

But even with Mark urging him on...

692

00:38:22,000 --> 00:38:23,000

On 18...

693

00:38:23,000 --> 00:38:25,000

It's not enough.

694

00:38:26,000 --> 00:38:27,000

I don't know too.

695

00:38:27,000 --> 00:38:29,000

He's slowing down by the time I get here.

696

00:38:29,000 --> 00:38:32,000

Adam's running out of road and buttoning off

697

00:38:32,000 --> 00:38:34,000

before he gets to the speed camera.

698

00:38:34,000 --> 00:38:36,000

Moving it closer to the start line

699

00:38:36,000 --> 00:38:39,000

means they can clock in in full flight.

700

00:38:42,000 --> 00:38:44,000

It's Adam's last chance.

701

00:38:44,000 --> 00:38:46,000

It's do or die.

702

00:38:46,000 --> 00:38:47,000

100...

703

00:38:48,000 --> 00:38:49,000

120...

704

00:38:50,000 --> 00:38:51,000

123...

705

00:38:52,000 --> 00:38:54,000

That's Adam's best yet.

706

00:38:54,000 --> 00:38:55,000

Unbelievable.

707

00:38:55,000 --> 00:38:57,000

But is it enough?

708

00:38:57,000 --> 00:38:58,000

Got him.

709

00:38:58,000 --> 00:39:01,000

You're going to have to go faster than that to beat the speed camera.

710

00:39:01,000 --> 00:39:04,000

With the score running 3-0 to the speed camera,

711

00:39:04,000 --> 00:39:07,000

there's only one option left.

712

00:39:07,000 --> 00:39:09,000

Adam has to swallow his pride

713

00:39:09,000 --> 00:39:12,000

and hand over the reins to a professional driver.

714

00:39:13,000 --> 00:39:16,000

If he can't beat it, it's not going to get beat.

715

00:39:19,000 --> 00:39:20,000

120...

716

00:39:25,000 --> 00:39:26,000

127.

717

00:39:27,000 --> 00:39:30,000

Mark's first run is not much faster than Adam's.

718

00:39:30,000 --> 00:39:32,000

So what do you do?

719

00:39:36,000 --> 00:39:37,000

115.

720

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

He's going faster.

721

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

140.

722

00:39:43,000 --> 00:39:44,000

136.

723

00:39:44,000 --> 00:39:46,000

We got a ticket.

724

00:39:46,000 --> 00:39:49,000

Even with a professional propelling it to maximum momentum,

725

00:39:49,000 --> 00:39:50,000

130...

726

00:39:50,000 --> 00:39:51,000

140...

727

00:39:52,000 --> 00:39:55,000

It's still not enough to beat the speed camera.

728

00:39:55,000 --> 00:39:56,000

I don't know.

729

00:39:56,000 --> 00:39:58,000

The speed camera, it's like works on the speed of light.

730

00:39:58,000 --> 00:40:00,000

So the car doesn't.

731

00:40:00,000 --> 00:40:02,000

The car goes like maybe 200 miles an hour tops.

732

00:40:02,000 --> 00:40:04,000

I don't think we're going to beat it.

733

00:40:04,000 --> 00:40:08,000

All that's left to do now is to gently break Adam's heart.

734

00:40:09,000 --> 00:40:10,000

What was our top speed?

735

00:40:10,000 --> 00:40:13,000

The top speed I got was about 140 miles an hour.

736

00:40:13,000 --> 00:40:14,000

That was when Mark was driving?

737

00:40:14,000 --> 00:40:15,000

Yeah.

738

00:40:15,000 --> 00:40:16,000

What was my top speed?

739

00:40:16,000 --> 00:40:17,000

About 120.

740

00:40:17,000 --> 00:40:19,000

Maybe 123, I forgot.

741

00:40:21,000 --> 00:40:23,000

Well that settles it, man.

742

00:40:23,000 --> 00:40:25,000

If we couldn't beat it with this thing,

743

00:40:25,000 --> 00:40:29,000

there's no way you can beat the speed camera no matter how fast you're going.

744

00:40:29,000 --> 00:40:31,000

I mean you know you're like under Mach 1.

745

00:40:33,000 --> 00:40:35,000

Yep, I guess it's busted.

746

00:40:35,000 --> 00:40:36,000

Our work here is done.

747

00:40:36,000 --> 00:40:37,000

Let's go.

748

00:40:37,000 --> 00:40:38,000

Not so fast.

749

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

I got a little something.

750

00:40:40,000 --> 00:40:41,000

Little something something.

751

00:40:41,000 --> 00:40:42,000

Really?

752

00:40:42,000 --> 00:40:43,000

Yeah.

753

00:40:43,000 --> 00:40:44,000

Something something.

754

00:40:44,000 --> 00:40:47,000

There's a lot of secret squirrel going on here.

755

00:40:47,000 --> 00:40:49,000

If I know one thing about Jamie,

756

00:40:49,000 --> 00:40:52,000

he's going outside the box and probably cheating.

757

00:40:52,000 --> 00:40:57,000

What you got here is a little bit more of a straightforward, no nonsense,

758

00:40:57,000 --> 00:41:00,000

no chemicals, no plastic wrap,

759

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

just basic physics to beat the speed camera.

760

00:41:04,000 --> 00:41:07,000

Get your cards, show me what you got cheater.

761

00:41:08,000 --> 00:41:10,000

Okay, we all set.

762

00:41:10,000 --> 00:41:12,000

The plate blockers fail.

763

00:41:12,000 --> 00:41:14,000

The very average auto failed.

764

00:41:14,000 --> 00:41:16,000

Red Ross speed failed.

765

00:41:16,000 --> 00:41:18,000

In a sea of failure,

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00:41:18,000 --> 00:41:21,000

what can Jamie possibly do to succeed?

767

00:41:30,000 --> 00:41:32,000

Nicely done.

768

00:41:32,000 --> 00:41:34,000

Very, very clever.

769

00:41:34,000 --> 00:41:36,000

Like I said, I knew he was going to cheat.

770

00:41:37,000 --> 00:41:39,000

So how did he do it?

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00:41:40,000 --> 00:41:43,000

Well remember way back when the car was being made safer

772

00:41:43,000 --> 00:41:46,000

and Jamie was busy cutting a huge hole,

773

00:41:46,000 --> 00:41:51,000

turns out it was to fit the old spy car revolving license plate trick.

774

00:41:51,000 --> 00:41:55,000

This is just an air powered rudder actuator, you know,

775

00:41:55,000 --> 00:41:57,000

a plier, it flips it.

776

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

That is good.

777

00:42:02,000 --> 00:42:03,000

Nicely done.

778

00:42:03,000 --> 00:42:04,000

Little trigger.

779

00:42:04,000 --> 00:42:05,000

You still get a ticket for that.

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00:42:05,000 --> 00:42:08,000

And actually I think the ticket for having that on your car

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00:42:08,000 --> 00:42:10,000

is a lot worse than speeding.

782

00:42:10,000 --> 00:42:12,000

This one comes in jail time.

783

00:42:12,000 --> 00:42:13,000

What are you going to do?

784

00:42:13,000 --> 00:42:15,000

Nice work, Speedy Gonzalez.

785

00:42:15,000 --> 00:42:16,000

Let's go home.

786

00:42:18,000 --> 00:42:20,000

Make sure you have it on the right plate on the way home.

787

00:42:20,000 --> 00:42:21,000

Alright.

788

00:42:32,000 --> 00:42:34,000

Dude, I so dally love driving that fast car.

789

00:42:34,000 --> 00:42:36,000

That was awesome.

790

00:42:36,000 --> 00:42:38,000

Yeah, I know you did.

791

00:42:38,000 --> 00:42:41,000

I got the researchers combing every source they can find

792

00:42:41,000 --> 00:42:43,000

for more fast car myths for us.

793

00:42:43,000 --> 00:42:47,000

Yeah, well you know we're doing a whole episode on viewer suggested myths

794

00:42:47,000 --> 00:42:50,000

and I bet there are going to be some car ones in there.

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00:42:50,000 --> 00:42:51,000

That's right.

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00:42:51,000 --> 00:42:53,000

If you've got some fast car myths that we can test,

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00:42:53,000 --> 00:42:57,000

log on to Discovery.com slash MythBusters

798

00:42:57,000 --> 00:42:58,000

and write down your ideas.

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00:42:58,000 --> 00:43:00,000

We'll be checking in often.

800

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

Yeah.