

1

00:00:00,000 --> 00:00:04,040

I'm Jamie Heineman and I'm Adam Savage. We're gonna find out what happens when

2

00:00:04,040 --> 00:00:11,840

you strap a rocket to a 67 Chevy. Oh yeah. Coming up, we turn a Chevy into a

3

00:00:11,840 --> 00:00:19,940

350 mile per hour road warrior. This is so exciting. I'm gonna have to have a

4

00:00:19,940 --> 00:00:29,480

green egg to me. Pop rocks and soda, urban myth or recipe for disaster. Dude, your

5

00:00:29,480 --> 00:00:41,240

stomach's gonna burst. Here on MythBusters, we're not just going to

6

00:00:41,240 --> 00:00:46,880

retell the stories. We're gonna put them to the test. We're prepared to put our

7

00:00:46,880 --> 00:00:54,320

bodies on the line. There's just one problem. Some aren't myths at all. Which one

8

00:00:54,360 --> 00:01:02,400

would that be? I don't know yet. So why should you trust these guys? Well, Jamie

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00:01:02,400 --> 00:01:07,120

and Adam have over 30 years in model building, animatronics and toy

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00:01:07,120 --> 00:01:14,480

prototyping. They've worked in features, television, theater and games. They can

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00:01:14,480 --> 00:01:20,640

build just about anything and probably have. This is M5, my special effects

12

00:01:20,640 --> 00:01:27,560

shop. Come on in and have a look around. Jamie's amassed an awesome collection of

13

00:01:27,560 --> 00:01:36,480

tools, talent and techniques. If we can't find it here, I'm trying to locate a pig's

14

00:01:36,480 --> 00:01:43,320

stomach. There's always Adam's eclectic collection. I come from a planted

15

00:01:43,480 --> 00:01:50,680

butt head. Jamie and Adam are supposed to be experts in what's real and what's not.

16

00:01:50,680 --> 00:01:56,960

And they'll need every trick in the book. So what do we begin? What do we got? Let's go.

17

00:01:56,960 --> 00:02:11,960

This is the big one. What we have is a 1967 Chevy Impala that was taken out into the

18

00:02:12,000 --> 00:02:16,800

desert and somebody had put a rocket booster on it. Now they found out about it

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00:02:16,800 --> 00:02:22,000

because there was a smoldering wreckage that the highway patrol there found. We

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00:02:22,000 --> 00:02:26,680

pieced together a gentleman or an individual that had put a Jato or a

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00:02:26,680 --> 00:02:32,360

rocket assist takeoff unit on an older model vehicle. The guy apparently was an

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00:02:32,360 --> 00:02:36,280

Air Force Sergeant, a former Air Force Sergeant. He made sure he had a long

23

00:02:36,280 --> 00:02:39,480

straight road and there was nothing around. Now you got up to highway speed

24

00:02:39,720 --> 00:02:44,160

about 80 miles an hour, fired the things off. The car had accelerated from like 80

25

00:02:44,160 --> 00:02:47,960

to 300 miles per hour in a couple seconds. There was a curve in the road, a slight

26

00:02:47,960 --> 00:02:53,080

increase or upgrade and a mountain shortly thereafter. So he applies the

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00:02:53,080 --> 00:02:57,320

brakes and of course the brakes burn out. They found about a mile and a half of

28

00:02:57,320 --> 00:03:01,080

skid mark. He didn't make the turn. He went airborne and he crashed into the

29

00:03:01,080 --> 00:03:07,600

side of the mountain approximately 100 or so feet up in the air. So do we have any

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00:03:07,640 --> 00:03:12,160

corroboration of this? Are there any photos or anybody come forward? Well that's

31

00:03:12,160 --> 00:03:18,440

our job to pursue that and we need to get a hold of a 67 Chevy or something

32

00:03:18,440 --> 00:03:24,920

close as close as we can to it and need to get a hold of a Jato or a Rato or

33

00:03:24,920 --> 00:03:28,600

again something equivalent to it. It'll look really cool. It'll look really cool.

34

00:03:28,600 --> 00:03:31,960

I mean that's going to be big flame shooting out the back. It's going to be

35

00:03:31,960 --> 00:03:37,040

great. I can't think of anything more fun than doing this. No you know what I

36

00:03:37,080 --> 00:03:37,920

really can't.

37

00:03:40,920 --> 00:03:45,720

I first heard about the story approximately 1994 when I was my job was

38

00:03:45,720 --> 00:03:49,760

a spokesman for the Department of Public Safety. I received a phone call from a

39

00:03:49,760 --> 00:03:54,800

local reporter asking about a Darwin Award that was on the internet. The way

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00:03:54,800 --> 00:03:58,160

the story read was that the Arizona Department of Public Safety or the Highway

41

00:03:58,160 --> 00:04:01,880

Patrol was the ones that did the investigation on it. I thought it was a

42

00:04:01,880 --> 00:04:05,240

very real possibility that it could have happened because Arizona is home to

43

00:04:05,280 --> 00:04:09,840

several air bases. Thus a military personnel could have gotten a hold of a

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00:04:09,840 --> 00:04:11,920

Jato unit to use in this fashion.

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00:04:14,520 --> 00:04:20,880

Jato or jet assisted takeoff has been around since the Second World War. We

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00:04:20,880 --> 00:04:26,040

should call them Rato's because each canister is filled with solid rocket

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00:04:26,040 --> 00:04:32,960

propellant. A single unit puts out 1000 pounds of thrust for 12 to 15 seconds.

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00:04:33,760 --> 00:04:38,360

Up to eight Jato's are used when large military aircraft are operating with

49

00:04:38,360 --> 00:04:40,840

heavy loads or from short runways.

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00:04:49,520 --> 00:04:52,400

Do we think the military is just going to hand over one of these Jato bottles?

51

00:04:52,400 --> 00:04:54,480

What do we do if they don't actually let us have one?

52

00:04:56,160 --> 00:05:00,040

Well, I kind of doubt that they will. This is not the kind of thing that you

53

00:05:00,040 --> 00:05:03,040

would want to let the general public have access to.

54

00:05:11,040 --> 00:05:16,480

We'd love to have the military there and involved. Just so it's clear we're not

55

00:05:16,480 --> 00:05:22,120

trying to get a hold of one of these things and do whatever we want with it.

56

00:05:22,120 --> 00:05:23,640

We want you involved.

57

00:05:25,560 --> 00:05:29,640

Well, we actually got to talk to somebody. She said they're very expensive units and

58

00:05:29,640 --> 00:05:32,840

that you know I don't know whether it's going to be possible. This is an unusual

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00:05:32,840 --> 00:05:33,840

request.

60

00:05:38,640 --> 00:05:44,280

Most good urban legends have good details, names, places, dates. In this case,

61

00:05:44,280 --> 00:05:48,040

often it's a Chevy Impala that the man was driving.

62

00:05:48,040 --> 00:05:52,360

So we need to find a 67 Chevy. I wonder where we're going to do that.

63

00:05:52,360 --> 00:05:58,200

Well, I picked this up at a flea market actually. This here is a 67 Chevy Impala.

64

00:05:58,200 --> 00:06:02,400

That's our goal. Hopefully we'll be able to find a junker, something with a

65

00:06:02,400 --> 00:06:05,400

crappy body. All we need is for it to run.

66

00:06:08,400 --> 00:06:10,400

Not an Impala, we got a Pontiac.

67

00:06:10,400 --> 00:06:12,400

It runs, the Pontiac runs.

68

00:06:12,400 --> 00:06:14,400

Not at the moment, it just needs a transmission on.

69

00:06:14,400 --> 00:06:15,400

Oh.

70

00:06:15,400 --> 00:06:16,400

Yeah.

71

00:06:16,400 --> 00:06:17,400

Only?

72

00:06:17,400 --> 00:06:18,400

Yeah, for you know.

73

00:06:20,400 --> 00:06:26,000

And a car not only is about survival, but it's also a symbol of adolescent

74

00:06:26,200 --> 00:06:29,200

freedom. When you get a car, you can leave the nest.

75

00:06:31,200 --> 00:06:35,200

We're going to be putting some rockets on the top of the car and setting them up.

76

00:06:35,200 --> 00:06:37,200

Oh, like the guy in the desert, the old urban legend.

77

00:06:37,200 --> 00:06:38,200

Yeah, exactly.

78

00:06:38,200 --> 00:06:41,200

So you want, it's a 72 Impala or 69 Impala you suppose to use.

79

00:06:41,200 --> 00:06:42,200

Yeah, yeah, everybody.

80

00:06:42,200 --> 00:06:45,200

Well, take anything looks like, I mean a Falcon within a couple of years.

81

00:06:45,200 --> 00:06:47,200

Something of that manage as long as it runs.

82

00:06:47,200 --> 00:06:48,200

A lot of heat.

83

00:06:49,200 --> 00:06:50,200

Don't care about the...

84

00:06:50,200 --> 00:06:51,200

The standard bird?

85

00:06:51,200 --> 00:06:52,200

Yeah, the standard.

86

00:06:52,200 --> 00:06:53,200

The standard.

87

00:06:53,200 --> 00:06:54,200

The standard.

88

00:06:54,200 --> 00:06:55,200

Well, it got to be cheap.

89

00:06:55,400 --> 00:06:56,400

Well, \$750.

90

00:06:56,400 --> 00:06:58,400

That's very plausible.

91

00:07:00,400 --> 00:07:03,400

It's also a symbol of sex.

92

00:07:04,400 --> 00:07:08,400

This is where a young man can have his first sexual experiences in this car.

93

00:07:08,400 --> 00:07:09,400

Yeah.

94

00:07:11,400 --> 00:07:12,400

Oh, yeah.

95

00:07:14,400 --> 00:07:15,400

That's the s***.

96

00:07:15,400 --> 00:07:16,400

We're done.

97

00:07:19,400 --> 00:07:21,400

That would be kind of a shame to destroy it.

98

00:07:21,400 --> 00:07:23,400

We don't have to destroy it.

99

00:07:25,400 --> 00:07:27,400

Oh, that's so beautiful.

100

00:07:28,400 --> 00:07:30,400

Oh my God, I'm loving this.

101

00:07:33,400 --> 00:07:34,400

Look at that.

102

00:07:35,400 --> 00:07:36,400

Wow.

103

00:07:36,400 --> 00:07:38,400

It's automatic windows.

104

00:07:39,400 --> 00:07:41,400

Oh, yeah.

105

00:07:42,400 --> 00:07:44,400

Is that your premise though to do that, the urban legend?

106

00:07:44,400 --> 00:07:45,400

Yeah.

107

00:07:45,400 --> 00:07:46,400

Why?

108

00:07:46,400 --> 00:07:48,400

You should get a Chevy, because I always heard the story with a Chevy.

109

00:07:49,400 --> 00:07:53,400

Chevrolet, the beautiful shape for 1965.

110

00:07:56,400 --> 00:08:01,400

The Chevy Impala is an ideal candidate for urban legend status.

111

00:08:01,400 --> 00:08:04,400

It was first introduced in 1958.

112

00:08:04,400 --> 00:08:09,400

From the start, it was a prestige car within the reach of the average American.

113

00:08:09,400 --> 00:08:11,400

A completely new look.

114

00:08:11,400 --> 00:08:14,400

Time cannot wash away.

115

00:08:15,400 --> 00:08:20,400

By the end of the millennium, sales exceeded 13 million,

116

00:08:20,400 --> 00:08:26,400

making the Chevy Impala the most popular full-sized car in American history.

117

00:08:31,400 --> 00:08:35,400

Seeing the beautiful shapes of Chevrolet for 1965 at your Chevrolet dealer's mouth.

118

00:08:36,400 --> 00:08:37,400

We need it to run.

119

00:08:37,400 --> 00:08:38,400

We need it to run.

120

00:08:38,400 --> 00:08:40,400

It's what May Run's got a bell and motor in it.

121

00:08:40,400 --> 00:08:42,400

What do you mean you have a rocket to run?

122

00:08:42,400 --> 00:08:44,400

We're going to destroy the car.

123

00:08:44,400 --> 00:08:45,400

Of course you are.

124

00:08:45,400 --> 00:08:46,400

That's half the fun.

125

00:08:46,400 --> 00:08:48,400

Thank you anyway.

126

00:08:48,400 --> 00:08:53,400

Despite its popularity, the Impala is proving as hard to procure as a Jado rocket.

127

00:09:02,400 --> 00:09:06,400

We called you last week concerning procuring a Jado.

128

00:09:07,400 --> 00:09:10,400

Procuring a Jado or a...

129

00:09:10,400 --> 00:09:13,400

Procuring a Jado or a Rado.

130

00:09:13,400 --> 00:09:19,400

So far we've had very little luck with getting anybody to return our calls.

131

00:09:27,400 --> 00:09:32,400

Jamie and Adam are following a promising new lead on that 67 Chevy.

132

00:09:33,400 --> 00:09:36,400

We're going to strap some rockets to its back end.

133

00:09:36,400 --> 00:09:37,400

Yeah.

134

00:09:37,400 --> 00:09:40,400

You know that thing where they took it down in the desert and set those up?

135

00:09:40,400 --> 00:09:41,400

We've got the perfect car for you.

136

00:09:41,400 --> 00:09:42,400

We're going to do that.

137

00:09:42,400 --> 00:09:43,400

You've got it.

138

00:09:43,400 --> 00:09:48,400

It's a 67 all right, but unfortunately an oldsmobile.

139

00:09:59,400 --> 00:10:02,400

This is your car if you want a car to put a rocket on.

140

00:10:02,400 --> 00:10:04,400

See you soon.

141

00:10:04,400 --> 00:10:08,400

Just as we've given up hope of finding our car in time.

142

00:10:10,400 --> 00:10:12,400

It's officially an Impala.

143

00:10:12,400 --> 00:10:15,400

Would it be all right if I drive it around the block?

144

00:10:17,400 --> 00:10:18,400

Oh yeah.

145

00:10:18,400 --> 00:10:20,400

Oh whoa whoa whoa.

146

00:10:22,400 --> 00:10:23,400

I got it lady.

147

00:10:24,400 --> 00:10:30,400

It's a working 66 Chevy Impala.

148

00:10:30,400 --> 00:10:35,400

With some decidedly non-standard features.

149

00:10:45,400 --> 00:10:47,400

This is without a doubt our car.

150

00:10:47,400 --> 00:10:49,400

It's destiny.

151

00:10:52,400 --> 00:10:53,400

Well thank you very much.

152

00:10:53,400 --> 00:10:54,400

Well thank you.

153

00:10:54,400 --> 00:10:55,400

We really appreciate it.

154

00:11:00,400 --> 00:11:13,400

We are 8.5 miles away from the car.

155

00:11:14,400 --> 00:11:16,400

It's 100 degrees.

156

00:11:16,400 --> 00:11:18,400

We're three hours from the shop.

157

00:11:18,400 --> 00:11:26,400

And thanks to a blocked fuel filter, our rocket car is doing exactly zero miles per hour.

158

00:11:31,400 --> 00:11:35,400

Thank goodness Adam's got the gold breakdown package.

159

00:11:43,400 --> 00:11:48,400

So the Air Force apparently called us back and turned us down on the Jado rocket.

160

00:11:48,400 --> 00:11:49,400

Permission denied.

161

00:11:49,400 --> 00:11:54,400

Yeah, I think did they call us back again just to deny permission again without being asked?

162

00:11:54,400 --> 00:11:55,400

Twice.

163

00:11:55,400 --> 00:11:57,400

So we got these things.

164

00:11:57,400 --> 00:11:58,400

Yeah.

165

00:11:58,400 --> 00:11:59,400

These are the hobby rockets.

166

00:11:59,400 --> 00:12:01,400

This is like an example of one of the tubes.

167

00:12:01,400 --> 00:12:03,400

How are we going to fire these off?

168

00:12:04,400 --> 00:12:08,400

Well these are actually more powerful than the Jato's.

169

00:12:08,400 --> 00:12:10,400

The ones that you know.

170

00:12:10,400 --> 00:12:11,400

But they're smaller.

171

00:12:11,400 --> 00:12:12,400

How's that possible?

172

00:12:12,400 --> 00:12:14,400

Well we're going to use more of them.

173

00:12:17,400 --> 00:12:23,400

While they're running they put out 1500 pounds of thrust as opposed to 1000 pounds.

174

00:12:23,400 --> 00:12:26,400

But they only last for four seconds.

175

00:12:29,400 --> 00:12:32,400

We're going to get several of them and we'll set them off successively.

176

00:12:37,400 --> 00:12:45,400

So we're going to put three of them on and we'll probably put them on the car like this.

177

00:12:45,400 --> 00:12:57,400

We have a qualified operator that you have to have a license to, a federal license to be able to purchase these things and operate them.

178

00:12:57,400 --> 00:12:58,400

I would hope so.

179

00:12:58,400 --> 00:12:59,400

Yeah.

180

00:12:59,400 --> 00:13:05,400

And so we're going to have those guys set them off and...

181

00:13:05,400 --> 00:13:07,400

So that's what it's going to look like.

182

00:13:07,400 --> 00:13:08,400

Yeah.

183

00:13:08,400 --> 00:13:10,400

That's essentially what we're going to do.

184

00:13:10,400 --> 00:13:12,400

We'll have to reinforce it and everything.

185

00:13:12,400 --> 00:13:15,400

That's all fine in theory.

186

00:13:15,400 --> 00:13:20,400

But it's an awful lot of power to put on the roof of a junker.

187

00:13:28,400 --> 00:13:32,400

One pound of thrust is two horsepower.

188

00:13:32,400 --> 00:13:39,400

So one of those rocket motors at 1500 pounds of thrust is 3000 horsepower.

189

00:13:39,400 --> 00:13:40,400

Yeah.

190

00:13:41,400 --> 00:13:47,400

That'll make our Chevy almost four times as powerful as an Indy car.

191

00:13:50,400 --> 00:13:54,400

I think of putting another car on top of this car.

192

00:13:54,400 --> 00:13:57,400

That kind of weight that's up there.

193

00:13:57,400 --> 00:14:02,400

So we want to probably build some kind of steel cage within the car's body to support this.

194

00:14:02,400 --> 00:14:03,400

Yeah.

195

00:14:03,400 --> 00:14:06,400

We don't just want to tie strap it to the roof right here.

196

00:14:06,400 --> 00:14:07,400

Yeah.

197

00:14:07,400 --> 00:14:08,400

That would be a bad idea.

198

00:14:08,400 --> 00:14:10,400

We could probably rip the roof right off the car.

199

00:14:13,400 --> 00:14:15,400

Oh, how about that?

200

00:14:24,400 --> 00:14:27,400

Adam, you're going to get sick.

201

00:14:27,400 --> 00:14:29,400

I believe I'm already sick.

202

00:14:31,400 --> 00:14:32,400

Give me the fire signature.

203

00:14:32,400 --> 00:14:34,400

What the f***?

204

00:14:34,400 --> 00:14:36,400

This time it's no joke.

205

00:14:36,400 --> 00:14:39,400

The fire's burning through the hydraulic lines.

206

00:14:41,400 --> 00:14:46,400

That sawdust with the hydraulic fluids, a nice little wiki thing.

207

00:14:46,400 --> 00:14:47,400

Wiki.

208

00:14:48,400 --> 00:14:54,400

I was thinking that we would drill up through here and bolt the top frame on here.

209

00:14:55,400 --> 00:15:01,400

With this design, the whole roof structure becomes part of the rocket rack.

210

00:15:09,400 --> 00:15:13,400

Now it turns out besides this legend, other people have strapped rockets to cars before.

211

00:15:13,400 --> 00:15:14,400

Haven't they?

212

00:15:14,400 --> 00:15:15,400

Yeah.

213

00:15:15,400 --> 00:15:19,400

There are world speed records that have occurred by using this.

214

00:15:19,400 --> 00:15:25,400

In 1965, Walt Afron's built the first rocket-powered land speed car.

215

00:15:25,400 --> 00:15:30,400

Wing Foot Express 2 was initially designed with 10 Jato units.

216

00:15:30,400 --> 00:15:33,400

But that wasn't nearly enough.

217

00:15:33,400 --> 00:15:40,400

25 rockets eventually blasted the car to an unofficial top speed of 605 miles per hour.

218

00:15:40,400 --> 00:15:43,400

Of course you have to remember that those are unusual cars.

219

00:15:43,400 --> 00:15:45,400

They're usually very long and built for this.

220

00:15:45,400 --> 00:15:47,400

They're based like rocks with wheels.

221

00:15:47,400 --> 00:15:48,400

Yeah.

222

00:15:48,400 --> 00:15:51,400

So this also begs the question, where do we fire the car off?

223

00:15:51,400 --> 00:15:55,400

There are some dry lake beds to the south of here towards LA.

224

00:15:55,400 --> 00:16:01,400

So we'll probably try one of those first to see whether we can get access to something like that.

225

00:16:01,400 --> 00:16:06,400

Jamie's having second thoughts about getting behind the wheel.

226

00:16:06,400 --> 00:16:14,400

If this behaves like the legend says, we're going to have a 3,000 or 3,000 to 4,000 pound projectile out there.

227

00:16:14,400 --> 00:16:20,400

And I guess the other thing that I thought with that in mind, if we do lose control of it,

228

00:16:20,400 --> 00:16:22,400

obviously we don't want to be in the car.

229

00:16:22,400 --> 00:16:24,400

So we're probably going to...

230

00:16:24,400 --> 00:16:25,400

You don't want to be in the car?

231

00:16:25,400 --> 00:16:27,400

I would love to be in the car.

232

00:16:27,400 --> 00:16:30,400

I think you should drive the car.

233

00:16:30,400 --> 00:16:35,400

Well, I think I should too, but we've radio-connected with the car.

234

00:16:35,400 --> 00:16:38,400

But we've radio-controlled cars before, and it's a lot of fun.

235

00:16:38,400 --> 00:16:40,400

Oh, so we'll make it radio-controlled?

236

00:16:40,400 --> 00:16:41,400

Yeah.

237

00:16:41,400 --> 00:16:43,400

I think that's the safest way of dealing with it.

238

00:16:43,400 --> 00:16:45,400

Oh, that's the coolest toy ever.

239

00:16:45,400 --> 00:16:46,400

Yeah.

240

00:16:46,400 --> 00:16:48,400

It's a big kid's RC car.

241

00:16:48,400 --> 00:16:51,400

We're going to do it.

242

00:16:51,400 --> 00:16:55,400

It's not quite as simple as a radio-controlled toy.

243

00:16:55,400 --> 00:17:01,400

At 300 miles per hour, the forces on the steering servos will be immense.

244

00:17:01,400 --> 00:17:06,400

The servos are motors that are positionable, so we can precisely control the steering on this.

245

00:17:06,400 --> 00:17:10,400

We need to have something pretty good, because if it's going that fast,

246

00:17:10,400 --> 00:17:19,400

we need to really be able to dial in on the aim, or it may go out of control.

247

00:17:19,400 --> 00:17:25,400

The transmitter also has dangerous limitations.

248

00:17:25,400 --> 00:17:32,400

One of the things is that these radio-controls are only good for a thousand meters or so, plus or minus.

249

00:17:32,400 --> 00:17:33,400

About half a mile.

250

00:17:33,400 --> 00:17:34,400

Yeah.

251

00:17:34,400 --> 00:17:41,400

For us, if this thing is going 300 miles an hour, it's going to get out of range from us real quick,

252

00:17:41,400 --> 00:17:43,400

even if we're driving alongside.

253

00:17:43,400 --> 00:17:47,400

So we're probably going to have to think of ways of either getting a really,

254

00:17:47,400 --> 00:17:50,400

we're going to have to go out and rent a really, really fast car,

255

00:17:50,400 --> 00:17:52,400

or we'll have to get a helicopter.

256

00:17:52,400 --> 00:17:54,400

Probably be the safest way of dealing with it.

257

00:17:54,400 --> 00:17:56,400

I'm going to try and start it.

258

00:17:56,400 --> 00:17:57,400

All right.

259

00:18:07,400 --> 00:18:12,400

Jamie's going to need every bit of control when he hits top speed.

260

00:18:12,400 --> 00:18:17,400

At 350 miles an hour at Chevrolet Impala, all the windows will pop out of it, and the roof will pull off.

261

00:18:17,400 --> 00:18:20,400

Andy Granatelli knows all about speed.

262

00:18:20,400 --> 00:18:24,400

He holds 21 Hall of Fame records.

263

00:18:24,400 --> 00:18:27,400

Many were set in conventional vehicles.

264

00:18:27,400 --> 00:18:34,400

He claims the top speed for a street machine, an awesome 241 miles per hour.

265

00:18:34,400 --> 00:18:39,400

At this velocity, wind resistance is the biggest enemy.

266

00:18:39,400 --> 00:18:43,400

The car will become airborne at a little over 200 miles an hour.

267

00:18:43,400 --> 00:18:46,400

The car will just raise the front of it up and flip over,

268

00:18:46,400 --> 00:18:49,400

in other words, because the air will get underneath the front of the car.

269

00:18:49,400 --> 00:18:51,400

Yee-haw!

270

00:18:52,400 --> 00:18:57,400

Jamie plans to use the Chevy's hydraulics to combat those forces.

271

00:18:57,400 --> 00:19:02,400

Lowering the hood should give considerable aerodynamic efficiency.

272

00:19:02,400 --> 00:19:07,400

It will also help with what he's been told is the most vital factor.

273

00:19:07,400 --> 00:19:13,400

The most difficult thing about this whole deal is probably getting this straight on the car.

274

00:19:13,400 --> 00:19:19,400

There's no real true center line that we know is actually the direction the car is going to go.

275

00:19:19,400 --> 00:19:32,400

We have, according to the experts, a 6 degree misalignment is going to put about 100 to 150 pounds of push on the tail of the car.

276

00:19:33,400 --> 00:19:34,400

That way.

277

00:19:34,400 --> 00:19:36,400

Yeah, that's as good as anything.

278

00:19:36,400 --> 00:19:39,400

So that's right about 86.

279

00:19:39,400 --> 00:19:46,400

And that's right about 86.

280

00:19:46,400 --> 00:19:48,400

Beautiful!

281

00:19:48,400 --> 00:19:50,400

Let's pack this puppy down.

282

00:19:53,400 --> 00:19:55,400

I can't wait to set this thing off.

283

00:19:55,400 --> 00:20:00,400

I'm going to be in a helicopter, and I've never ridden in a helicopter before.

284

00:20:00,400 --> 00:20:08,400

Radio controlling a 3,000 horsepower rocket driven radio controlled car.

285

00:20:08,400 --> 00:20:13,400

What could be better? You know, you could just kill yourself when you were done, because it's just

like, pshh,

286

00:20:13,400 --> 00:20:15,400

they're not getting here any better than that.

287

00:20:15,400 --> 00:20:17,400

That's all going downhill from there.

288

00:20:38,400 --> 00:20:42,400

And so the fun begins.

289

00:20:42,400 --> 00:20:48,400

It's such a treat to see the sunrise over the desert.

290

00:20:48,400 --> 00:20:52,400

What am I saying? It's a treat to fire a rocket car in the desert.

291

00:20:52,400 --> 00:20:59,400

Finally, all the pieces are coming together on the lakebed.

292

00:20:59,400 --> 00:21:06,400

With a bit of luck, we'll soon know if the Jato rocket myth is indeed possible.

293

00:21:06,400 --> 00:21:09,400

I'm just setting the failsafe on this.

294

00:21:09,400 --> 00:21:14,400

These radios actually leave a structure that's not in the air.

295

00:21:14,400 --> 00:21:18,400

Jamie will be joined in the chopper by Eric Gates.

296

00:21:18,400 --> 00:21:26,400

He and his brother, Derrick, have over 20 years experience in amateur rocketry.

297

00:21:26,400 --> 00:21:32,400

They plan to fire the motors by remote control.

298

00:21:32,400 --> 00:21:35,400

The Jato rocket is a very powerful rocket.

299

00:21:35,400 --> 00:21:37,400

It's a very powerful rocket.

300

00:21:37,400 --> 00:21:41,400

It's not just a rocket. It's an amateur rocketry.

301

00:21:41,400 --> 00:21:45,400

They plan to fire the motors by remote control.

302

00:21:57,400 --> 00:22:01,400

Jamie's going to do a dry run in the car.

303

00:22:01,400 --> 00:22:06,400

The rocket guys I think are going to do a test fire, so all systems are good.

304

00:22:06,400 --> 00:22:10,400

It's probably about an hour or two actual firing.

305

00:22:10,400 --> 00:22:37,400

The remote control and failsafe are working perfectly.

306

00:22:38,400 --> 00:22:42,400

Well, you know, I'm not at all happy.

307

00:22:42,400 --> 00:22:49,400

The reason being that unless something goes wrong on the first test, it makes me nervous.

308

00:22:49,400 --> 00:22:52,400

Because that means something is going to go wrong later.

309

00:22:52,400 --> 00:22:55,400

How you doing? Adam Savage.

310

00:22:55,400 --> 00:22:59,400

If this new visitor is right, Jamie may just get his wish.

311

00:22:59,400 --> 00:23:03,400

I looked at it and it said the mount's not strong enough, number one.

312

00:23:03,400 --> 00:23:07,400

The mount's not straight either. We warned him about strutting the mount.

313

00:23:07,400 --> 00:23:10,400

It's got to be straight or it's too the car all the time.

314

00:23:10,400 --> 00:23:16,400

George should know. Not only did he work on the Apollo program,

315

00:23:16,400 --> 00:23:19,400

he's conducted numerous speed trials out here.

316

00:23:19,400 --> 00:23:21,400

Eight points welded into the frame of the car.

317

00:23:21,400 --> 00:23:26,400

I hope it works, I mean, you know, because I don't want you to dig up my leg bed.

318

00:23:26,400 --> 00:23:31,400

Not exactly comforting words for our final briefing.

319

00:23:31,400 --> 00:23:35,400

The helicopter's going to do a pass around just like we did the last time.

320

00:23:35,400 --> 00:23:40,400

About the time that it passes in front of the car, I've released the brakes

321

00:23:40,400 --> 00:23:42,400

and the car's going to start to roll.

322

00:23:42,400 --> 00:23:49,400

Like the myth, our plan is to get the car up to 80 miles per hour before firing the rocket.

323

00:23:49,400 --> 00:23:50,400

I've given it a lot of gas.

324

00:23:50,400 --> 00:23:53,400

When the motors go, they're going to have a tendency to scare you.

325

00:23:53,400 --> 00:23:57,400

So when you're hearing the 321, brace yourself. Don't veer.

326

00:23:57,400 --> 00:24:00,400

Sound like a jet engine. It's going to get a 15 foot flame out the back.

327

00:24:01,400 --> 00:24:03,400

Let's have a good start, man.

328

00:24:03,400 --> 00:24:05,400

Get your gay life on.

329

00:24:05,400 --> 00:24:10,400

This is so exciting.

330

00:24:10,400 --> 00:24:13,400

I'm going to have to have a green egg to me.

331

00:24:25,400 --> 00:24:27,400

Green light to go.

332

00:24:28,400 --> 00:24:31,400

They're starting their circle now.

333

00:24:32,400 --> 00:24:35,400

Brakes are coming off. We are a go.

334

00:24:38,400 --> 00:24:40,400

Nothing's happening.

335

00:24:43,400 --> 00:24:45,400

Green boarding.

336

00:24:45,400 --> 00:24:48,400

We're a boarding. We are a boarding. We are a boarding.

337

00:24:48,400 --> 00:24:50,400

Copy that. Copy that.

338

00:24:51,400 --> 00:24:53,400

That's a board to the bullseye.

339

00:24:54,400 --> 00:24:56,400

Okay, helicopter's coming in.

340

00:24:59,400 --> 00:25:01,400

Doesn't it go through the inside?

341

00:25:01,400 --> 00:25:02,400

So how do you get it?

342

00:25:02,400 --> 00:25:06,400

Looks like the car's old gremlins are back to haunt us.

343

00:25:07,400 --> 00:25:14,400

With all the focus on horsepower and thrust curves, we never did fix that fuel problem.

344

00:25:15,400 --> 00:25:22,400

The problem is that this is an older car and we've been stirring up a sediment in the bottom of the tank

345

00:25:22,400 --> 00:25:25,400

that's gotten into the fuel filter and clogged the fuel filter.

346

00:25:25,400 --> 00:25:29,400

All we have to do is pull the filter out and flush it out once in a while.

347

00:25:29,400 --> 00:25:32,400

We should get a good run here soon.

348

00:25:33,400 --> 00:25:38,400

That sort of answers my need for a small failure.

349

00:25:38,400 --> 00:25:41,400

I'll accept that one as a small failure.

350

00:25:52,400 --> 00:25:59,400

That is clear. We have green light to go.

351

00:25:59,400 --> 00:26:01,400

Green light to go?

352

00:26:01,400 --> 00:26:03,400

The car's starting to roll.

353

00:26:06,400 --> 00:26:08,400

Okay, we're in line.

354

00:26:08,400 --> 00:26:10,400

Okay, coming out of full throttle.

355

00:26:10,400 --> 00:26:12,400

I'm coming home with the electronics.

356

00:26:12,400 --> 00:26:14,400

Alright.

357

00:26:15,400 --> 00:26:17,400

Okay, good luck.

358

00:26:17,400 --> 00:26:19,400

Go ahead and set it off.

359

00:26:19,400 --> 00:26:21,400

Okay, helicopter's at speed.

360

00:26:21,400 --> 00:26:23,400

Fire in and...

361

00:26:23,400 --> 00:26:27,400

Three, two, one, fire.

362

00:26:29,400 --> 00:26:33,400

Three, two, one, fire.

363

00:26:33,400 --> 00:26:36,400

Three, two, one, fire.

364

00:26:36,400 --> 00:26:40,400

Three, two, one, fire.

365

00:26:40,400 --> 00:26:43,400

Three, two, one, fire.

366

00:26:47,400 --> 00:26:50,400

It's been a long road, but finally...

367

00:26:52,400 --> 00:26:54,400

We have lift off.

368

00:26:54,400 --> 00:27:00,400

Three rockets, four seconds and 1,500 pounds of thrust apiece.

369

00:27:01,400 --> 00:27:06,400

That's 3,000 horsepower for 12 seconds.

370

00:27:06,400 --> 00:27:09,400

Just like a Jato.

371

00:27:10,400 --> 00:27:30,400

That was hysterical. That was absolutely outrageous.

372

00:27:30,400 --> 00:27:32,400

What kind of speed do you think it got to?

373

00:27:32,400 --> 00:27:36,400

I don't know. The helicopter was having trouble keeping up with it.

374

00:27:36,400 --> 00:27:40,400

The chopper's top speed is 130 per hour.

375

00:27:40,400 --> 00:27:42,400

Hey!

376

00:27:44,400 --> 00:27:47,400

That was beautiful. We lost track of it.

377

00:27:47,400 --> 00:27:50,400

Oh yeah, we couldn't keep up with it with the helicopter.

378

00:27:50,400 --> 00:27:55,400

Once those suckers lit it, it just like...

379

00:27:55,400 --> 00:27:59,400

It's one thing to see them go up, it's another thing to see them go horizontal.

380

00:27:59,400 --> 00:28:02,400

Just the dust trail from the car.

381

00:28:02,400 --> 00:28:04,400

It's so beautiful.

382

00:28:04,400 --> 00:28:08,400

I was quite impressed. I was hoping it would go good that it did.

383

00:28:08,400 --> 00:28:11,400

A little apprehensible, but no.

384

00:28:11,400 --> 00:28:13,400

Jamie did his homework.

385

00:28:13,400 --> 00:28:18,400

Over the years, many have claimed they were the inspiration for this story.

386

00:28:18,400 --> 00:28:24,400

For those who really tried it, the results were the same.

387

00:28:26,400 --> 00:28:31,400

In 1957, Dodge was filming an ad on this same lake.

388

00:28:32,400 --> 00:28:35,400

They replaced the gas tank with a single Jato bottle.

389

00:28:35,400 --> 00:28:40,400

The car topped out at 140 miles per hour.

390

00:28:40,400 --> 00:28:46,400

So Jamie, given the structure of the original myth that the guy ignited the rocket,

391

00:28:46,400 --> 00:28:51,400

accelerated to like 350 miles per hour, supposedly hit the edge of a curve of the road

392

00:28:51,400 --> 00:28:54,400

and was airborne for several seconds before hitting the side of a cliff,

393

00:28:54,400 --> 00:28:55,400

do you think it's possible?

394

00:28:55,400 --> 00:29:00,400

It didn't happen. They'd have to have at least around four times the power that we did.

395

00:29:00,400 --> 00:29:05,400

Back in 46, Andy Granatelli and his brothers did just that.

396

00:29:05,400 --> 00:29:09,400

They put eight Jatoes on an Indie Racer.

397

00:29:10,400 --> 00:29:15,400

The explosion was horrendous and the thrust was such that you couldn't believe it.

398

00:29:15,400 --> 00:29:19,400

We looked at each other as if we were going to the moon.

399

00:29:19,400 --> 00:29:24,400

The rocket left not a little fizzle like this, but for a lot, 300 feet long,

400

00:29:24,400 --> 00:29:29,400

for wider than the road and higher than the telephone wires, a tail of fire.

401

00:29:29,400 --> 00:29:32,400

And the car accelerated up to approximately 180 miles an hour.

402

00:29:32,400 --> 00:29:37,400

I mean, and believe me, I mean, it was unbelievable.

403

00:29:37,400 --> 00:29:42,400

Andy's antics may well be the origin of the Jato myth.

404

00:29:43,400 --> 00:29:50,400

One thing's for sure, we can all quit calling the Arizona Department of Public Safety.

405

00:29:50,400 --> 00:29:55,400

There never was a crash site found in Arizona. Nothing even vaguely familiar.

406

00:29:55,400 --> 00:30:02,400

On occasion, we still get people inquiring about it, and we post it on our website stating that it is a myth.

407

00:30:06,400 --> 00:30:07,400

That was a lot of fun, though.

408

00:30:07,400 --> 00:30:13,400

Yeah, it was great. Just those few seconds being in that chopper, right trailing behind the car,

409

00:30:13,400 --> 00:30:20,400

seeing those things set off, it was indescribable. Just seeing that car kind of go.

410

00:30:21,400 --> 00:30:26,400

I mean, it was beautiful. It was gorgeous.

411

00:30:39,400 --> 00:30:41,400

So do you remember Pop Rocks?

412

00:30:41,400 --> 00:30:46,400

Yeah, they were invented in 1956, the year of my birth.

413

00:30:46,400 --> 00:30:47,400

Really?

414

00:30:47,400 --> 00:30:48,400

Yes.

415

00:30:48,400 --> 00:30:54,400

The legend we're approaching now is the legend that little Mikey from the Life Serials commercial.

416

00:30:54,400 --> 00:31:01,400

I remember it so clearly. The kid goes, let's get Mikey to try it. He won't eat it. He hates everything.

417

00:31:01,400 --> 00:31:04,400

Whatever Mikey could eat, everyone could eat. That was the idea.

418

00:31:04,400 --> 00:31:07,400

Anyways, Mikey at one point becomes a teenager.

419

00:31:07,400 --> 00:31:12,400

He ate six cans of soda and six pouches of Pop Rocks.

420

00:31:12,400 --> 00:31:16,400

And this has some kind of chemical reaction in his stomach.

421

00:31:16,400 --> 00:31:18,400

It's like a stomach and explode, and he dies.

422

00:31:18,400 --> 00:31:24,400

So the myth is that a combination of six packs of Pop Rocks and a six pack of soda

423

00:31:24,400 --> 00:31:29,400

is a lethal combination of gases that will make your stomach explode.

424

00:31:33,400 --> 00:31:40,400

We'd like to determine a couple of things. We want to see how much pressure is generated by rapid infusion of six packs of Pop Rocks and soda.

425

00:31:41,400 --> 00:31:46,400

We'd like to determine how much pressure a stomach can withstand.

426

00:31:47,400 --> 00:31:52,400

I've been thinking about this, and I think to imitate a stomach, the pressures of a stomach,

427

00:31:52,400 --> 00:31:59,400

the best course is to use a pig's stomach, which is actually physically very close to a human stomach,

428

00:31:59,400 --> 00:32:04,400

which can hold about between one and two pints, generally, of liquid.

429

00:32:05,400 --> 00:32:10,400

I'm trying to locate a pig's stomach.

430

00:32:10,400 --> 00:32:12,400

A pig's stomach.

431

00:32:15,400 --> 00:32:18,400

Should we continue further?

432

00:32:18,400 --> 00:32:20,400

Is this about the size of a human stomach?

433

00:32:20,400 --> 00:32:22,400

He really could.

434

00:32:24,400 --> 00:32:27,400

How large is it? Obviously, it's deflated, right?

435

00:32:27,400 --> 00:32:28,400

Like a swimming cap.

436

00:32:28,400 --> 00:32:29,400

What?

437

00:32:29,400 --> 00:32:30,400

Like a swimming cap.

438

00:32:30,400 --> 00:32:34,400

Like a swimming cap. A very, very meaty swimming cap.

439

00:32:38,400 --> 00:32:46,400

Originally, the idea was to create an instant carbonated soda by General Foods.

440

00:32:46,400 --> 00:32:47,400

Can I try some?

441

00:32:47,400 --> 00:32:49,400

Yeah, absolutely.

442

00:32:49,400 --> 00:32:57,400

They discovered, actually, that when you ate those nuggets, there was like a system or a popping sensation in your mouth.

443

00:33:01,400 --> 00:33:06,400

This isn't getting as any closer to that pig's stomach.

444

00:33:08,400 --> 00:33:11,400

Does it have like the esophagus and the intestines attached at all?

445

00:33:11,400 --> 00:33:13,400

No, no, no, no. Just the stomach.

446

00:33:13,400 --> 00:33:15,400

I need all the tubes attached to it.

447

00:33:15,400 --> 00:33:19,400

Would it be possible to get it with as much of the attachments to it as possible?

448

00:33:19,400 --> 00:33:20,400

No, no.

449

00:33:21,400 --> 00:33:29,400

It turns out that the Food and Drug Administration have listed the esophagus and bowel as hazardous substances.

450

00:33:29,400 --> 00:33:30,400

58025 South.

451

00:33:30,400 --> 00:33:33,400

It looks like that says 580 is going.

452

00:33:33,400 --> 00:33:34,400

Right.

453

00:33:42,400 --> 00:33:45,400

Four stomachs. Terrific.

454

00:33:48,400 --> 00:33:49,400

That's them.

455

00:33:49,400 --> 00:33:54,400

The specific instructions on the thing complete with esophagus and intestines.

456

00:33:54,400 --> 00:33:56,400

It's actually becoming a reality.

457

00:33:56,400 --> 00:34:01,400

That's one important mission accomplished.

458

00:34:06,400 --> 00:34:07,400

Yummy.

459

00:34:07,400 --> 00:34:11,400

The worst part is the breath coming out of here.

460

00:34:21,400 --> 00:34:23,400

Can I go to that?

461

00:34:24,400 --> 00:34:28,400

It's interesting that the valves on this thing actually work.

462

00:34:28,400 --> 00:34:31,400

It's holding its pressure.

463

00:34:31,400 --> 00:34:37,400

We just put air in there and walked away.

464

00:34:40,400 --> 00:34:43,400

How do you think we'll get the pop rocks and the soda actually into the stomach?

465

00:34:43,400 --> 00:34:46,400

To get these in there, we have to get them wet unless we're going to...

466

00:34:46,400 --> 00:34:48,400

I mean, they're not going to pour.

467

00:34:48,400 --> 00:34:51,400

I think we want to equate a worst case scenario here.

468

00:34:52,400 --> 00:34:59,400

The pop rocks are going in in one bunch along with the soda, I guess as rapidly as you could do it.

469

00:34:59,400 --> 00:35:01,400

As rapidly as one might drink it.

470

00:35:01,400 --> 00:35:02,400

Big syringe then.

471

00:35:02,400 --> 00:35:04,400

A big syringe?

472

00:35:07,400 --> 00:35:11,400

The meat appeared, I believe, was in 1979.

473

00:35:12,400 --> 00:35:15,400

Four years after the candy was launched.

474

00:35:16,400 --> 00:35:20,400

And actually has devastating consequences for the brand name.

475

00:35:22,400 --> 00:35:24,400

Sales dropped down to almost nearly.

476

00:35:24,400 --> 00:35:28,400

One of the things we have to figure out is how are we going to hang this thing?

477

00:35:28,400 --> 00:35:31,400

What about mounting it in our skeleton over there?

478

00:35:31,400 --> 00:35:35,400

Sure. There's plenty of tie points in the rib cage.

479

00:35:35,400 --> 00:35:41,400

We'll get to see fluid dribbling out of the skeleton.

480

00:35:41,400 --> 00:35:44,400

You want it to have a dramatic effect, that'll do it.

481

00:35:44,400 --> 00:35:48,400

And of course, actually the inlet tube will have to come up and out through the mouth of the skeleton.

482

00:35:48,400 --> 00:35:50,400

And you know where the outlet tube is going?

483

00:35:51,400 --> 00:35:53,400

No. Where is the outlet tube going?

484

00:35:53,400 --> 00:35:55,400

Oh, don't make me say that.

485

00:35:56,400 --> 00:35:59,400

By the time we're done, he'll be playing the piano just like old times.

486

00:36:00,400 --> 00:36:07,400

What the company tried to do to address the problem was basically they run around 45 advertisements,

487

00:36:07,400 --> 00:36:10,400

big full-page advertisements in magazine.

488

00:36:10,400 --> 00:36:15,400

And they wrote about 50,000 letters to different high school headmasters

489

00:36:15,400 --> 00:36:20,400

and school headmasters explaining that there was no problem.

490

00:36:20,400 --> 00:36:24,400

Once a belief is out there, it's pretty difficult.

491

00:36:24,400 --> 00:36:29,400

You have to take some gargantuan steps to disprove it.

492

00:36:30,400 --> 00:36:35,400

We've got to mix up one last ingredient before the experiment can begin.

493

00:36:36,400 --> 00:36:38,400

I'd say it's about a pH of two.

494

00:36:38,400 --> 00:36:43,400

Okay. So that's the equivalent of one stomach's contents of hydrochloric acid?

495

00:36:43,400 --> 00:36:47,400

Yes. That's 1.7 pounds of water.

496

00:36:47,400 --> 00:36:48,400

Okay.

497

00:36:48,400 --> 00:36:52,400

Gastric juice is secreted actually, we believe, as a protective mechanism.

498

00:36:52,400 --> 00:36:54,400

It's not designed to aid in digestion.

499

00:36:54,400 --> 00:36:58,400

It's designed, the hydrochloric acid along with pepsin is designed to kill things.

500

00:36:58,400 --> 00:37:04,400

So it's kind of protection over when we were back there fighting the hyenas for the bones.

501

00:37:04,400 --> 00:37:09,400

It might not aid in digestion, but we think a quart of hydrochloric acid

502

00:37:09,400 --> 00:37:12,400

will be critical to busting this myth.

503

00:37:14,400 --> 00:37:16,400

Oh yeah. Oh yeah.

504

00:37:17,400 --> 00:37:18,400

Your gloves.

505

00:37:18,400 --> 00:37:21,400

Now the fun begins.

506

00:37:21,400 --> 00:37:25,400

And then I will, once you're pouring the liquid, I'll be opening Kent's soda, handing them off to you.

507

00:37:25,400 --> 00:37:26,400

Okay.

508

00:37:26,400 --> 00:37:28,400

We're clamped everywhere. Alright.

509

00:37:28,400 --> 00:37:29,400

Alright.

510

00:37:33,400 --> 00:37:34,400

Oh man.

511

00:37:34,400 --> 00:37:37,400

Alright, Mikey's had two cans. He's out of control.

512

00:37:39,400 --> 00:37:42,400

Oh my God, he's going for another one. Mikey.

513

00:37:44,400 --> 00:37:48,400

Alright, Mikey man, you can't drink those last two cans of soda.

514

00:37:49,400 --> 00:37:51,400

Dude, you are an animal.

515

00:37:51,400 --> 00:37:53,400

Dude, your stomach's going to burst.

516

00:37:54,400 --> 00:37:57,400

Alright, here comes the plunger.

517

00:37:59,400 --> 00:38:02,400

Slow down. You didn't drink it that fast.

518

00:38:02,400 --> 00:38:05,400

Listen, you can hear those pop rocks going for it.

519

00:38:05,400 --> 00:38:07,400

Well, that's pretty impressive.

520

00:38:07,400 --> 00:38:10,400

Oh, there goes the burp. Mikey's burping.

521

00:38:10,400 --> 00:38:12,400

Come on. Oh man.

522

00:38:12,400 --> 00:38:15,400

Look how big that stomach's getting.

523

00:38:17,400 --> 00:38:18,400

Alright.

524

00:38:18,400 --> 00:38:20,400

It's more or less got it.

525

00:38:20,400 --> 00:38:21,400

Alright.

526

00:38:22,400 --> 00:38:23,400

Wow.

527

00:38:23,400 --> 00:38:27,400

Okay, I wouldn't have called that he could drink all that soda and pop rocks at once.

528

00:38:28,400 --> 00:38:31,400

That's huge. That's like three times the size of what it was.

529

00:38:31,400 --> 00:38:34,400

We're not reading any real pressure in here.

530

00:38:34,400 --> 00:38:37,400

By its nature, the human stomach is a capacitance organ.

531

00:38:37,400 --> 00:38:39,400

That means it's designed to stretch.

532

00:38:39,400 --> 00:38:43,400

Receptive relaxation is the concept in human physiology,

533

00:38:43,400 --> 00:38:46,400

so it will relax and stretch and stretch up to some limit.

534

00:38:46,400 --> 00:38:50,400

So my guess is Mikey's feeling a little ill right about now.

535

00:38:50,400 --> 00:38:52,400

I know, I would be.

536

00:38:52,400 --> 00:38:54,400

Do you think we should give him some time to digest?

537

00:38:55,400 --> 00:38:56,400

Sure, why not?

538

00:38:56,400 --> 00:39:00,400

You got two built-in vents, one on either side of the stomach,

539

00:39:00,400 --> 00:39:04,400

that should be the places that this air goes if you reach those kinds of pressures.

540

00:39:04,400 --> 00:39:11,400

Even with time for digestion, the pop rocks and soda just don't produce enough gas.

541

00:39:11,400 --> 00:39:13,400

We put six cans.

542

00:39:14,400 --> 00:39:19,400

About another, you know, almost a liter of acid.

543

00:39:19,400 --> 00:39:21,400

Six doses of pop rocks.

544

00:39:21,400 --> 00:39:24,400

You can still hear it crackling here.

545

00:39:27,400 --> 00:39:31,400

So, does this myth contain any elements of truth?

546

00:39:31,400 --> 00:39:35,400

The human stomach clearly can rupture. There's no question about that.

547

00:39:35,400 --> 00:39:40,400

You can get rupture in blunt trauma, automobile accidents, for instance.

548

00:39:40,400 --> 00:39:47,400

After a quick reset, we're going to try and see if we can make our pig stomach explode.

549

00:39:49,400 --> 00:39:51,400

Who the hell could be calling me?

550

00:39:52,400 --> 00:39:53,400

I can answer that.

551

00:39:53,400 --> 00:39:56,400

Trying to pick stomach into a skeleton.

552

00:39:56,400 --> 00:39:57,400

Clamp.

553

00:39:58,400 --> 00:40:03,400

Now, it turns out that in the annals of medicine in the last century,

554

00:40:03,400 --> 00:40:08,400

there are a half dozen cases of people's stomachs exploding from an excess of CO₂,

555

00:40:08,400 --> 00:40:10,400

usually from something like baking soda.

556

00:40:10,400 --> 00:40:12,400

One, let's do three.

557

00:40:13,400 --> 00:40:15,400

That's an awful lot of sodium, but...

558

00:40:16,400 --> 00:40:20,400

Well, I've taken two with heartburn. Let's say someone feels...

559

00:40:20,400 --> 00:40:24,400

Unlike pop rocks, the baking soda and acid react.

560

00:40:24,400 --> 00:40:27,400

Injecting acid.

561

00:40:28,400 --> 00:40:29,400

All right.

562

00:40:29,400 --> 00:40:32,400

The result is carbon dioxide gas.

563

00:40:32,400 --> 00:40:34,400

Lots of it.

564

00:40:39,400 --> 00:40:41,400

Okay, one down.

565

00:40:42,400 --> 00:40:44,400

Yummy. And good for you.

566

00:40:45,400 --> 00:40:48,400

The single most popular food item in the United States.

567

00:40:49,400 --> 00:40:51,400

Three cans down.

568

00:40:54,400 --> 00:40:56,400

Four.

569

00:40:57,400 --> 00:40:59,400

Come on, you got to drink a little faster, Piggy.

570

00:41:01,400 --> 00:41:02,400

Five.

571

00:41:05,400 --> 00:41:06,400

Six.

572

00:41:08,400 --> 00:41:11,400

We've fully drunk the soda by carbonate.

573

00:41:13,400 --> 00:41:14,400

You ready?

574

00:41:15,400 --> 00:41:17,400

Oh, yeah.

575

00:41:18,400 --> 00:41:20,400

Oh, my God.

576

00:41:20,400 --> 00:41:22,400

He's still drinking.

577

00:41:22,400 --> 00:41:23,400

That's getting really big.

578

00:41:23,400 --> 00:41:25,400

He can't hold it anymore.

579

00:41:26,400 --> 00:41:27,400

Clamp it.

580

00:41:29,400 --> 00:41:31,400

See what the pressure is rating.

581

00:41:31,400 --> 00:41:32,400

Whoa.

582

00:41:32,400 --> 00:41:34,400

Okay, that's much bigger than before.

583

00:41:34,400 --> 00:41:38,400

It's still hardly reading. It's reading about half a PSI.

584

00:41:38,400 --> 00:41:42,400

There are probably lots of folks out there who have for years and years and years

585

00:41:42,400 --> 00:41:44,400

been using baking soda.

586

00:41:44,400 --> 00:41:49,400

And in the amounts that would be prescribed to reduce acid,

587

00:41:49,400 --> 00:41:52,400

there's very, very little gas formed.

588

00:41:52,400 --> 00:41:57,400

It usually stays in solution, comes out, doesn't cause very much by way of distention

589

00:41:57,400 --> 00:42:00,400

if you stay within the limits that are recommended.

590

00:42:00,400 --> 00:42:05,400

Here on Mythbusters, we're never afraid to push the limits.

591

00:42:05,400 --> 00:42:07,400

Okay, ready?

592

00:42:07,400 --> 00:42:08,400

Ready.

593

00:42:12,400 --> 00:42:14,400

Oh, I feel the pressure.

594

00:42:14,400 --> 00:42:17,400

If you have a stomach that's greatly distended by a large meal,

595

00:42:17,400 --> 00:42:22,400

and then you add on top of that either gas in the form of

596

00:42:22,400 --> 00:42:26,400

sodium bicarbonate to try and relieve acid and digestion,

597

00:42:26,400 --> 00:42:31,400

you can in those very, very unusual situations see gas to rupture.

598

00:42:31,400 --> 00:42:35,400

It's not a major rupture, but no one should have the impression that this is common

599

00:42:35,400 --> 00:42:37,400

by any stretch of the imagination.

600

00:42:38,400 --> 00:42:39,400

Okay.

601

00:42:39,400 --> 00:42:41,400

Whoa!

602

00:42:41,400 --> 00:42:42,400

Wow.

603

00:42:42,400 --> 00:42:44,400

Well, that did cause a reaction.

604

00:42:44,400 --> 00:42:46,400

That turned out to be a little too much.

605

00:42:46,400 --> 00:42:49,400

Yeah, that's what we call a hell of a Saturday night.

606

00:42:49,400 --> 00:42:51,400

Oh, my gosh.

607

00:42:52,400 --> 00:42:53,400

Totally blue.

608

00:42:53,400 --> 00:42:57,400

With the addition of a little more stomach acid and the bicarbonate of soda,

609

00:42:57,400 --> 00:42:59,400

what was that, two tablespoons?

610

00:42:59,400 --> 00:43:00,400

Yeah.

611

00:43:00,400 --> 00:43:02,400

Just ripped a hole right in the back.

612

00:43:02,400 --> 00:43:06,400

I mean, in a body, something like two or three PSI is a huge amount of pressure.

613

00:43:06,400 --> 00:43:07,400

Yeah.

614

00:43:07,400 --> 00:43:11,400

I can't imagine a human consuming that much crap.

615

00:43:11,400 --> 00:43:13,400

Well, maybe I can actually.

616

00:43:15,400 --> 00:43:21,400

Well, the sodium bicarb with the person's own stomach seems to me to be the main thing.

617

00:43:21,400 --> 00:43:25,400

Somebody that's just taking, you know, eating candy or something,

618

00:43:25,400 --> 00:43:27,400

I don't see it happening.

619

00:43:27,400 --> 00:43:33,400

Mythbusters tried to contact John Gilchrist, the actor who played little Mikey.

620

00:43:33,400 --> 00:43:35,400

He never returned our calls.

621

00:43:35,400 --> 00:43:38,400

Another one bites the dust.

622

00:43:57,400 --> 00:43:58,400

Yeah.