

1

00:00:00,000 --> 00:00:03,340

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

2

00:00:03,340 --> 00:00:05,340

We're what you call experts.

3

00:00:05,340 --> 00:00:12,000

On this episode of Mythbusters, buckle up for thrills,

4

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

spills, and chills.

5

00:00:16,000 --> 00:00:17,500

I can't feel my fingers.

6

00:00:17,500 --> 00:00:22,000

First, Adam and Jamie go all out for some spy car combat.

7

00:00:22,000 --> 00:00:24,500

Oh, I got you. Oh, yeah. You want some of this?

8

00:00:24,500 --> 00:00:27,000

Testing whether wheels of misfortune...

9

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

Not enough, yeah.

10

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

And wood-mounted machine guns really work.

11

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

Swirl of all you want, man. I can follow you.

12

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

Meanwhile, Carrie Grant and Tori get in a spin.

13

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

Mythbusters on ice.

14

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

As they find out if a bullet fired into a frozen lake

15

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

can really spin like a top.

16

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

See, there's no string here.

17

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

It's a story that starts in San Francisco.

18

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

I don't see any spinning bullets.

19

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

But ends in a bitter battle

20

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

as the Mythbusters take on Mother Nature.

21

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

The next myth is in the Bahamas, right?

22

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

Who are the Mythbusters?

23

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

Adam Savage.

24

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

Wow!

25

00:01:11,000 --> 00:01:13,000

And Jamie Heineman.

26

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

All right, it's party time.

27

00:01:15,000 --> 00:01:19,000

Between them more than 30 years of special effects experience,

28

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

joining them,

29

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

Grant Imahara.

30

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

For science.

31

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

Carrie Byron.

32

00:01:26,000 --> 00:01:28,000

Right to over the job.

33

00:01:28,000 --> 00:01:30,000

And Tori Belichi.

34

00:01:31,000 --> 00:01:33,000

They don't just tell the Myths.

35

00:01:33,000 --> 00:01:36,000

They put them to the test.

36

00:01:42,000 --> 00:01:46,000

First up, buckle up for some spy car carnage.

37

00:01:46,000 --> 00:01:48,000

Spy car revenge.

38

00:01:48,000 --> 00:01:50,000

Spy car revenge.

39

00:01:50,000 --> 00:01:52,000

Yeah, the original spy car was all about defensive weapons

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00:01:52,000 --> 00:01:54,000

a spy might have in his car

41

00:01:54,000 --> 00:01:56,000

that could foil someone who's chasing him.

42

00:01:56,000 --> 00:01:59,000

Spy car revenge is about offensive weapons

43

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

a chaser would have to disable a car he's chasing.

44

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

What'd you have in mind?

45

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

I've got two things.

46

00:02:06,000 --> 00:02:09,000

The first one, spiky things that come out of the hubs of their wheels

47

00:02:09,000 --> 00:02:12,000

and tear up their opponents' cars while they're driving next to them.

48

00:02:12,000 --> 00:02:14,000

Nice. What's the other one?

49

00:02:14,000 --> 00:02:18,000

Guns mounted on the hood of the spy's car.

50

00:02:18,000 --> 00:02:20,000

That's very cool.

51

00:02:20,000 --> 00:02:22,000

Let's start with the spikiest first.

52

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

Okay.

53

00:02:23,000 --> 00:02:25,000

Okay guys, I'm all oiled up and ready to go.

54

00:02:25,000 --> 00:02:28,000

In spy car round one,

55

00:02:28,000 --> 00:02:31,000

the guys evaluated evasion antics

56

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

with mixed success.

57

00:02:39,000 --> 00:02:42,000

But this time, it's out with escape

58

00:02:42,000 --> 00:02:45,000

and in with attack.

59

00:02:45,000 --> 00:02:48,000

But can hood mounted guns

60

00:02:48,000 --> 00:02:51,000

and hub mounted wheel spikes really work

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00:02:51,000 --> 00:02:54,000

first time every time?

62

00:02:55,000 --> 00:02:57,000

So, wheel spikes.

63

00:02:57,000 --> 00:02:59,000

There are tons of movies that have used that trick.

64

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

We can't do all of them.

65

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

No, we can't.

66

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

I think we should boil it down and pick two.

67

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

Well, there's a classic in Goldfinger.

68

00:03:06,000 --> 00:03:08,000

It's really simple. We've got to do that one.

69

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

And there is a really pretty nicely complex one in the green hornet.

70

00:03:11,000 --> 00:03:12,000

I'd like to try out.

71

00:03:12,000 --> 00:03:13,000

Sounds like we've got a plan.

72

00:03:13,000 --> 00:03:15,000

I think we do.

73

00:03:16,000 --> 00:03:18,000

And it's a plan that starts with the delivery

74

00:03:18,000 --> 00:03:21,000

for Mythbusters very own cue.

75

00:03:21,000 --> 00:03:23,000

This car is going to be our chase car.

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00:03:23,000 --> 00:03:27,000

When I'm done with it, it's going to be a vicious and aggressive car.

77

00:03:27,000 --> 00:03:30,000

In fact, I think I'm going to call it slash

78

00:03:30,000 --> 00:03:33,000

because that's what it's going to do.

79

00:03:33,000 --> 00:03:35,000

With slash sitting pretty,

80

00:03:35,000 --> 00:03:38,000

Jamie begins by building the first of the two wheel spikes.

81

00:03:38,000 --> 00:03:41,000

The deadly device from Goldfinger.

82

00:03:42,000 --> 00:03:44,000

It's pretty simple really.

83

00:03:44,000 --> 00:03:46,000

All it has is a blender style blade,

84

00:03:46,000 --> 00:03:48,000

like this one that I cut out on the plasma cutter,

85

00:03:48,000 --> 00:03:50,000

attached to the end of a post.

86

00:03:50,000 --> 00:03:53,000

So I'll weld this on here like so,

87

00:03:53,000 --> 00:03:55,000

weld on the hub piece,

88

00:03:55,000 --> 00:03:57,000

and then sharpen the blades.

89

00:03:57,000 --> 00:04:00,000

As slashers go, it's certainly simple.

90

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

Looks about right to me.

91

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

But will the Cremale steel be strong enough to not buckle under pressure?

92

00:04:06,000 --> 00:04:07,000

Ouch!

93

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

Meanwhile, tire slasher two is anything but basic.

94

00:04:11,000 --> 00:04:14,000

The Green Hornet device is a little more complicated.

95

00:04:14,000 --> 00:04:16,000

It has a bunch of spiky finger-like things

96

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

that are welded to a central hub like so.

97

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

Now, I've mocked all this up in wood

98

00:04:21,000 --> 00:04:23,000

so that I can get the geometry right.

99

00:04:23,000 --> 00:04:28,000

And then, all I have to do is cut a bunch of steel pieces out like this,

100

00:04:28,000 --> 00:04:30,000

weld them all together,

101

00:04:30,000 --> 00:04:32,000

and I'm done.

102

00:04:32,000 --> 00:04:35,000

In that case, let's cut to the chase, literally.

103

00:04:35,000 --> 00:04:37,000

You ready to do this?

104

00:04:37,000 --> 00:04:40,000

Are you ready to get slashed up?

105

00:04:40,000 --> 00:04:43,000

Ha ha! You just try and catch me!

106

00:04:47,000 --> 00:04:50,000

Enjoy it while it lasts, buddy.

107

00:04:50,000 --> 00:04:55,000

While Adam spins out for no reason other than because he can,

108

00:04:55,000 --> 00:04:58,000

Jamie gets on with the odd job in hand,

109

00:04:58,000 --> 00:05:01,000

attaching the gold finger slinger.

110

00:05:01,000 --> 00:05:03,000

This blade looks pretty nasty,

111

00:05:03,000 --> 00:05:06,000

and I'm positive it'll take out an Adam's tire.

112

00:05:06,000 --> 00:05:08,000

But when it comes to meeting something stronger,

113

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

his wheel or steel parts of the body,

114

00:05:11,000 --> 00:05:14,000

I'm not so sure because this is a pretty long lever,

115

00:05:14,000 --> 00:05:16,000

and that means it could get bent.

116

00:05:16,000 --> 00:05:18,000

With that in mind,

117

00:05:18,000 --> 00:05:20,000

I did make this out of chrome-olive steel,

118

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

which is very, very strong,

119

00:05:22,000 --> 00:05:24,000

but what it actually does,

120

00:05:24,000 --> 00:05:26,000

we're just gonna have to try and find out.

121

00:05:26,000 --> 00:05:28,000

And to do just that,

122

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

the guys are establishing some very precise rules of engagement.

123

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

This story is all about how much damage

124

00:05:33,000 --> 00:05:35,000

Jamie's spikes will do to my car.

125

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

I'm not going to avoid him.

126

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

I'm gonna drive at a constant speed while he pulls up

127

00:05:40,000 --> 00:05:42,000

and does as much damage as he can.

128

00:05:42,000 --> 00:05:44,000

So, from the green flag,

129

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

the two cars will accelerate to 40 miles an hour.

130

00:05:47,000 --> 00:05:49,000

When they hit the red flag,

131

00:05:49,000 --> 00:05:52,000

Jamie will engage new weapon into the driver's side of my car.

132

00:05:52,000 --> 00:05:56,000

They'll have 500 yards to inflict as much damage as he can.

133

00:05:56,000 --> 00:05:58,000

My prediction?

134

00:05:58,000 --> 00:06:01,000

I don't think this gold finger spike is gonna do much more than

135

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

carve up the side of my car.

136

00:06:03,000 --> 00:06:05,000

I don't think it's gonna take me out.

137

00:06:08,000 --> 00:06:11,000

Dude, nice gold finger spike.

138

00:06:11,000 --> 00:06:12,000

Pretty nasty, huh?

139

00:06:12,000 --> 00:06:13,000

Totally.

140

00:06:13,000 --> 00:06:14,000

Are you ready for it?

141

00:06:14,000 --> 00:06:16,000

Absolutely.

142

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

With the first spike locked and loaded,

143

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

let's get the show on the road.

144

00:06:21,000 --> 00:06:22,000

Okay.

145

00:06:22,000 --> 00:06:24,000

Gold finger spike.

146

00:06:24,000 --> 00:06:29,000

In three, two, one.

147

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

Both cars accelerate towards the red flag

148

00:06:36,000 --> 00:06:37,000

of the engagement zone.

149

00:06:37,000 --> 00:06:40,000

And once there, the carnage can begin.

150

00:06:45,000 --> 00:06:48,000

Jamie's first bump tears through the car door.

151

00:06:52,000 --> 00:06:56,000

The second shreds the tire like the proverbial knife through butter.

152

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

And that loss of traction brings Adam's car to a slow stop.

153

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

You know, right there a little buddy?

154

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

You totally disabled me.

155

00:07:09,000 --> 00:07:11,000

Meaning that for the James Bond simple spike,

156

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

it's pretty much mission accomplished.

157

00:07:14,000 --> 00:07:18,000

Wow, dude, that is beautiful.

158

00:07:18,000 --> 00:07:20,000

That was crazy effective.

159

00:07:20,000 --> 00:07:23,000

Yeah, it sliced right through the rear of the car

160

00:07:23,000 --> 00:07:24,000

and went into the tire.

161

00:07:24,000 --> 00:07:25,000

No problem.

162

00:07:25,000 --> 00:07:28,000

I have never been in a purposeful accident.

163

00:07:31,000 --> 00:07:34,000

Especially not one where the person I was driving next to

164

00:07:34,000 --> 00:07:36,000

wanted to cause damage to me.

165

00:07:36,000 --> 00:07:38,000

Oh, that's really scary.

166

00:07:38,000 --> 00:07:41,000

My leg is right on the other side of this.

167

00:07:41,000 --> 00:07:43,000

Check that out.

168

00:07:43,000 --> 00:07:46,000

And it took out this tire magnificently.

169

00:07:46,000 --> 00:07:50,000

I had no idea that this method would be this effective.

170

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

Test one's low tech specs were a steely success.

171

00:07:55,000 --> 00:07:59,000

But can its more elaborate counterpart do any better?

172

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

Given the success of the Bond spike,

173

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

you'd think that this monster would be a shoe in.

174

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

But I'm not so sure.

175

00:08:06,000 --> 00:08:07,000

It's much more complicated.

176

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

There's more stuff to go wrong.

177

00:08:09,000 --> 00:08:11,000

Sometimes size isn't everything.

178

00:08:12,000 --> 00:08:15,000

But will this be one of those times?

179

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

Right.

180

00:08:17,000 --> 00:08:20,000

Now let's roll test two.

181

00:08:20,000 --> 00:08:23,000

Dude, from here those spikes look sick.

182

00:08:23,000 --> 00:08:26,000

Well, are you ready to feel the touch?

183

00:08:26,000 --> 00:08:27,000

I'm ready. Let's do it.

184

00:08:27,000 --> 00:08:29,000

Okay, green hornet.

185

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

In three, two, one.

186

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

Like last time, the guys carefully accelerated.

187

00:08:37,000 --> 00:08:40,000

Because they want to know if the weapon works,

188

00:08:40,000 --> 00:08:43,000

not how easy it is to deploy.

189

00:08:44,000 --> 00:08:47,000

All right, I'm at cruise control going at 40.

190

00:08:47,000 --> 00:08:48,000

Here he comes.

191

00:08:49,000 --> 00:08:50,000

Oh, crap.

192

00:08:50,000 --> 00:08:51,000

Oh, crap.

193

00:08:51,000 --> 00:08:52,000

Oh, no.

194

00:08:52,000 --> 00:08:53,000

Oh, no is right.

195

00:08:53,000 --> 00:08:56,000

Any hope that this weapon's sting would be harmless

196

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

is immediately abandoned.

197

00:08:59,000 --> 00:09:02,000

Oh, crap.

198

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

Oh, come on.

199

00:09:05,000 --> 00:09:07,000

Come on, let's ask him more.

200

00:09:07,000 --> 00:09:11,000

Despite Adam's fighting talk, one bump later,

201

00:09:11,000 --> 00:09:16,000

and his journey's brought to a premature end.

202

00:09:16,000 --> 00:09:19,000

What did you do to me?

203

00:09:19,000 --> 00:09:21,000

Another successful destruction.

204

00:09:21,000 --> 00:09:23,000

Insane.

205

00:09:23,000 --> 00:09:26,000

I think I'm getting a little better at this as I practice.

206

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

Yeah, you took that tire out pretty handily.

207

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

Yeah, I went in right about here

208

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

and then started to go back until I hit the tire.

209

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

I heard the bang.

210

00:09:34,000 --> 00:09:37,000

Awesome.

211

00:09:37,000 --> 00:09:40,000

The green hornet spike made mincemeat of Adam's car,

212

00:09:40,000 --> 00:09:42,000

opening it up like a sardine can,

213

00:09:42,000 --> 00:09:45,000

and shredding the tire to pieces.

214

00:09:45,000 --> 00:09:46,000

Oh, no.

215

00:09:46,000 --> 00:09:48,000

But Jamie's not convinced.

216

00:09:48,000 --> 00:09:51,000

Personally, I think this one is more show than anything else.

217

00:09:51,000 --> 00:09:53,000

I mean, it did take out the tire,

218

00:09:53,000 --> 00:09:55,000

and it messed up the side of the car,

219

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

but it really didn't do any more damage

220

00:09:57,000 --> 00:09:59,000

than the Bond one did.

221

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

Jamie's got a point,

222

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

because both wheel spikes did more or less the same damage.

223

00:10:04,000 --> 00:10:06,000

That felt like I got hit by a power schoole.

224

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

And both brought Adam to a complete stop.

225

00:10:09,000 --> 00:10:11,000

Oh, I lost all power.

226

00:10:11,000 --> 00:10:14,000

But Jamie thinks there is room for improvement.

227

00:10:14,000 --> 00:10:16,000

Both of our movie spikes work pretty well.

228

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

The thing is, they're really pretty much just fancy tire poppers,

229

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

because who cares if you put scratches or holes in the sheet metal?

230

00:10:24,000 --> 00:10:26,000

It's not really going to stop the car.

231

00:10:26,000 --> 00:10:29,000

Makes me wonder, though, what would.

232

00:10:29,000 --> 00:10:34,000

And that's a thought that should have Adam very, very afraid.

233

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

Still to come, Jamie's wonder turns to thunder.

234

00:10:38,000 --> 00:10:41,000

You are one sick puppy.

235

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

That is messed up.

236

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

But next, will a bullet fired into ice spin like a top?

237

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

All right, this is spinning bullet at 42 degrees.

238

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

Next up, it's time to spin out.

239

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

Okay, so our next myth is based on a video clip

240

00:11:06,000 --> 00:11:07,000

that was sent in by a viewer.

241

00:11:07,000 --> 00:11:09,000

And it's kind of weird.

242

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

Ooh, do you still have the video? I want to see it.

243

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

Okay, not like that.

244

00:11:13,000 --> 00:11:15,000

There's a guy in a frozen lake bed with a bunch of his buddies

245

00:11:15,000 --> 00:11:17,000

shooting a nine-mil into the ice

246

00:11:17,000 --> 00:11:20,000

and somehow they get their bullets to just spin like a top.

247

00:11:20,000 --> 00:11:22,000

Now that sounds like a myth.

248

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

That's exactly why we're testing it.

249

00:11:26,000 --> 00:11:29,000

It's no myth that a bullet fired from a handgun

250

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

spins at over 80,000 rpm.

251

00:11:33,000 --> 00:11:36,000

But can a bullet fired into a frozen lake

252

00:11:36,000 --> 00:11:39,000

really spin like a top?

253

00:11:39,000 --> 00:11:41,000

I'll see there's no string here.

254

00:11:41,000 --> 00:11:44,000

In other words, is this video the real deal?

255

00:11:44,000 --> 00:11:47,000

Or is this myth on thin ice?

256

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

Look, I gotta say, I got my doubts about this one.

257

00:11:49,000 --> 00:11:51,000

Yeah, I know, this looks pretty bizarre,

258

00:11:51,000 --> 00:11:53,000

but I think it's worth testing.

259

00:11:53,000 --> 00:11:55,000

I agree, but where are we going to find a frozen lake bed?

260

00:11:55,000 --> 00:11:56,000

It's the middle of summer.

261

00:11:56,000 --> 00:11:58,000

Yeah, I've been thinking about that.

262

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

And I think we've got to build our own frozen lake.

263

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

We've done crazier.

264

00:12:03,000 --> 00:12:05,000

Yeah, and we should definitely try two different shots.

265

00:12:05,000 --> 00:12:07,000

Maybe we'll shoot one directly into the ice

266

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

and then one as a ricochet

267

00:12:08,000 --> 00:12:10,000

and see if one of those gives us a spinning bullet.

268

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

Okay, let's do it.

269

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

But before anyone spins out,

270

00:12:15,000 --> 00:12:17,000

Tori's getting to grips with a gun grip

271

00:12:17,000 --> 00:12:20,000

or ransom rest because for this myth,

272

00:12:20,000 --> 00:12:23,000

geometry is key.

273

00:12:23,000 --> 00:12:25,000

Now, if this myth is true,

274

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

the key element here is finding at which angle

275

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

to fire the gun into the ice.

276

00:12:29,000 --> 00:12:32,000

So, I have my gun, I have my ransom rest.

277

00:12:32,000 --> 00:12:34,000

Now what I need to do is build a holder

278

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

that is adjustable so we can fire at the ice

279

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

at different angles.

280

00:12:38,000 --> 00:12:40,000

Finding the right angle is vital.

281

00:12:40,000 --> 00:12:43,000

Two straight and the bullet will deform and not spin.

282

00:12:43,000 --> 00:12:46,000

Two shallow and the slug will skip off the ice

283

00:12:46,000 --> 00:12:49,000

and be lost forever.

284

00:12:49,000 --> 00:12:51,000

Now, I found out a little bit more about the shooter in the myth.

285

00:12:51,000 --> 00:12:53,000

Now, he's about six feet tall

286

00:12:53,000 --> 00:12:55,000

and shot about six feet in front of him.

287

00:12:55,000 --> 00:12:57,000

So, since Tori's six feet tall,

288

00:12:57,000 --> 00:12:59,000

I'm going to have him stand in for the shooter.

289

00:12:59,000 --> 00:13:01,000

Okay, Tori, put your feet right at the line.

290

00:13:01,000 --> 00:13:04,000

I'm going to have him hold the gun and aim at six feet.

291

00:13:04,000 --> 00:13:07,000

Here's a laser pointer to help you find the six foot mark.

292

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

Then, I'm going to check the angle of the gun

293

00:13:09,000 --> 00:13:11,000

and the distance it is from the ground.

294

00:13:11,000 --> 00:13:14,000

Okay, that is about 42 degrees.

295

00:13:14,000 --> 00:13:16,000

And let's see what the height is.

296

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

About 44 and a half inches.

297

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

With that information, we can put our ransom rest

298

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

in the right place to get the results we're looking for.

299

00:13:23,000 --> 00:13:25,000

Now we know where to set the ransom rest.

300

00:13:25,000 --> 00:13:27,000

Well, at least where to start.

301

00:13:27,000 --> 00:13:30,000

Knowing where to start is a start.

302

00:13:30,000 --> 00:13:32,000

And with the shooting rig ready to fire,

303

00:13:32,000 --> 00:13:35,000

they're off to take aim at this myth.

304

00:13:35,000 --> 00:13:38,000

We're on the rifle range at the Shabou Gun Club,

305

00:13:38,000 --> 00:13:40,000

so we can recreate the circumstances

306

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

of the spinning ice bullets.

307

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

In the myth, this event takes place on a frozen pond

308

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

in the middle of winter.

309

00:13:47,000 --> 00:13:49,000

Because it's the middle of summer

310

00:13:49,000 --> 00:13:51,000

and we're in Northern California,

311

00:13:51,000 --> 00:13:54,000

frozen ponds are not in plentiful supply.

312

00:13:54,000 --> 00:13:56,000

All right, bring in the ice.

313

00:13:56,000 --> 00:13:58,000

But what we're going to do is create our own,

314

00:13:58,000 --> 00:14:04,000

using nine 40-inch by 24-inch by 10-inch thick solid ice blocks.

315

00:14:04,000 --> 00:14:06,000

Okay, there we go.

316

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

Myth best is on ice.

317

00:14:08,000 --> 00:14:10,000

All right, maybe not.

318

00:14:10,000 --> 00:14:12,000

Putting those all together and hopefully,

319

00:14:12,000 --> 00:14:16,000

that amount of mass will be enough to create a spin.

320

00:14:16,000 --> 00:14:18,000

It's certainly a large slice of ice

321

00:14:18,000 --> 00:14:21,000

and the next best thing to a frozen lake.

322

00:14:21,000 --> 00:14:24,000

Is it bad if you can't fill your fingertips?

323

00:14:24,000 --> 00:14:26,000

They said this would be a cool myth.

324

00:14:26,000 --> 00:14:29,000

I didn't believe them.

325

00:14:29,000 --> 00:14:30,000

Look at that.

326

00:14:30,000 --> 00:14:32,000

Instant frozen lake.

327

00:14:32,000 --> 00:14:33,000

I wouldn't say instant.

328

00:14:33,000 --> 00:14:34,000

Good point.

329

00:15:03,000 --> 00:15:06,000

Okay, so we're going to fire and then look and listen

330

00:15:06,000 --> 00:15:08,000

for any sort of spinning bullet.

331

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

All right, this is a spinning bullet at 42 degrees.

332

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

In three, two, one.

333

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

The Glock is positioned in Tori's angle finder to 42 degrees

334

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

and then it's go time.

335

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

Okay, so we're going to fire and then look and listen

336

00:15:24,000 --> 00:15:26,000

for any sort of spinning bullet.

337

00:15:26,000 --> 00:15:29,000

All right, this is a spinning bullet at 42 degrees.

338

00:15:29,000 --> 00:15:32,000

In three, two, one.

339

00:15:35,000 --> 00:15:36,000

The gun fires.

340

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

The ice shatters.

341

00:15:37,000 --> 00:15:39,000

But what happens to the bullet?

342

00:15:39,000 --> 00:15:42,000

Well, we hit the ice, but no spinning bullet.

343

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

Look how much it fractured.

344

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

I bet it's right in there.

345

00:15:46,000 --> 00:15:47,000

Carries spot on.

346

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

The bullet hit the ice and simply embedded itself deep inside

347

00:15:51,000 --> 00:15:54,000

where a spin is out of the question.

348

00:15:54,000 --> 00:15:59,000

But undeterred, the mythbusters decide to try again.

349

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

All right, gun is loaded.

350

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

We're hot.

351

00:16:01,000 --> 00:16:02,000

Let's do this.

352

00:16:02,000 --> 00:16:03,000

Round two.

353

00:16:03,000 --> 00:16:06,000

Three, two, one.

354

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

Wow.

355

00:16:10,000 --> 00:16:15,000

It's another 42 degree hit, but with the same result.

356

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

I don't see any spinning bullets.

357

00:16:18,000 --> 00:16:20,000

But all is not lost.

358

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

Okay, we're 0 for 2, but you know what?

359

00:16:22,000 --> 00:16:26,000

That's fine because it doesn't always work in the viral video.

360

00:16:26,000 --> 00:16:31,000

Not every shot yields a spin, so we can't call it just yet.

361

00:16:31,000 --> 00:16:34,000

In three, two, one.

362

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

Test three also has nothing akin to a spin.

363

00:16:39,000 --> 00:16:43,000

But when they recover the round, there is cause for cautious optimism.

364

00:16:43,000 --> 00:16:46,000

Oh my gosh, but look at this.

365

00:16:46,000 --> 00:16:51,000

The bullet has not deformed, which means there might be some truth to this myth.

366

00:16:51,000 --> 00:16:53,000

That could potentially spin.

367

00:16:53,000 --> 00:16:58,000

But with test four, where is the elusive spinning bullet?

368

00:16:58,000 --> 00:17:01,000

Five, it's not here.

369

00:17:01,000 --> 00:17:05,000

Six and seven also failing to spin out.

370

00:17:05,000 --> 00:17:08,000

That optimism soon melts away.

371

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

The sun's coming out.

372

00:17:10,000 --> 00:17:12,000

The lake's melting.

373

00:17:12,000 --> 00:17:14,000

Still no spinning bullets.

374

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

Meaning it's time for a plan B.

375

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

So the direct hit experiment isn't really giving us anything.

376

00:17:20,000 --> 00:17:24,000

So we're going to change our firing angle and try for the ricochet.

377

00:17:24,000 --> 00:17:29,000

We're going to fire into the ice block and hope to catch the spinning bullet on the larger frozen lake.

378

00:17:29,000 --> 00:17:31,000

This is not going to be easy.

379

00:17:31,000 --> 00:17:34,000

Coming right up in Spy Car, the revenge.

380

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

I think that had hurt another car if you drove into it.

381

00:17:36,000 --> 00:17:39,000

Will Jamie be psyched by his spike?

382

00:17:39,000 --> 00:17:41,000

This will after.

383

00:17:41,000 --> 00:17:44,000

In three, two, one.

384

00:17:51,000 --> 00:17:56,000

So far in the Spy Spike Department, we've tested the Goldfinger Spike.

385

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

Which did this kind of damage.

386

00:18:02,000 --> 00:18:09,000

Now apparently Jamie's rigged up some kind of special Einemann sauce to come at me with one last time.

387

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

Even though Adam was psyched by the spikes, I'm going home.

388

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

Jamie saw a room for improvement.

389

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

I don't think he's going to make it very far.

390

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

So we slip back to the show.

391

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

We're going to go to the show.

392

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

We're going to go to the show.

393

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

We're going to go to the show.

394

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

We're going to go to the show.

395

00:18:29,000 --> 00:18:31,000

I don't think he's going to make it very far.

396

00:18:31,000 --> 00:18:36,000

So we slip back to the shop to conjure up a wheel of misfortune.

397

00:18:36,000 --> 00:18:40,000

Straight from the Einemann House of Horrors.

398

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

I think that had hurt another car if you drove into it.

399

00:18:44,000 --> 00:18:50,000

And back at the runway with nuts tightened, it's time to put it to the test.

400

00:18:50,000 --> 00:18:53,000

This design is about the worst thing I could come up with.

401

00:18:53,000 --> 00:19:00,000

What's different about it is that the other designs all had relatively long skinny shafts with a cutting blade on the tip.

402

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

And those shafts could bend the little blades that were on the tip could also bend or dull relatively easily.

403

00:19:07,000 --> 00:19:08,000

And they did.

404

00:19:08,000 --> 00:19:13,000

Whereas this has this massive base that's very strong.

405

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

So I reckon this will go right into the car and just keep on cutting without damaging itself.

406

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

Are you ready?

407

00:19:20,000 --> 00:19:21,000

I am.

408

00:19:21,000 --> 00:19:23,000

Okay, the slasher.

409

00:19:23,000 --> 00:19:27,000

And three, two, one.

410

00:19:29,000 --> 00:19:33,000

For the final time, the Mythbusters motor down the runway.

411

00:19:34,000 --> 00:19:38,000

Until the red flag signals the bullish Jamie to charge.

412

00:19:42,000 --> 00:19:45,000

Straight away, he takes out Adam's rear tire.

413

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

Then he slices and dices along the whole side.

414

00:19:53,000 --> 00:19:55,000

Come on Jamie, I can take more.

415

00:19:56,000 --> 00:20:00,000

With Adam at his mercy, Jamie goes in for the kill.

416

00:20:03,000 --> 00:20:07,000

And rips the entire front tire clean off.

417

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

Not enough.

418

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

Leaving only one possible outcome.

419

00:20:12,000 --> 00:20:15,000

That was too much fun.

420

00:20:16,000 --> 00:20:17,000

Woo!

421

00:20:17,000 --> 00:20:21,000

That fulfills like a deep childhood fantasy.

422

00:20:21,000 --> 00:20:22,000

I want another car.

423

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

I want to do this again.

424

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

It was a heavy metal massacre in the truest sense of the word.

425

00:20:28,000 --> 00:20:29,000

I got to see this.

426

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

I think I messed your car up a little bit.

427

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

I'm sorry about that.

428

00:20:38,000 --> 00:20:40,000

I don't know what I was thinking.

429

00:20:40,000 --> 00:20:43,000

That is a horror.

430

00:20:43,000 --> 00:20:44,000

Where's my tire?

431

00:20:44,000 --> 00:20:46,000

My tire is still there.

432

00:20:46,000 --> 00:20:48,000

I'd say my spike was pretty effective.

433

00:20:48,000 --> 00:20:52,000

I mean, there's not a whole lot more that you could do to the side of a car.

434

00:20:52,000 --> 00:20:56,000

Not only did I pop the tires, but I completely removed them.

435

00:20:57,000 --> 00:21:03,000

The car can't move at all now because the chassis is sitting on the ground, in fact.

436

00:21:04,000 --> 00:21:06,000

It worked a little better than I thought it would.

437

00:21:06,000 --> 00:21:11,000

With Spy Myth 1 a slashing success, it's time to bring out the big guns.

438

00:21:16,000 --> 00:21:19,000

Is this firearms film the real deal?

439

00:21:19,000 --> 00:21:25,000

For just bullet baloney, can a slug really spin like a frozen top?

440

00:21:26,000 --> 00:21:28,000

Three, two, one.

441

00:21:28,000 --> 00:21:32,000

Well, the Mythbusters direct hit approach was shot down.

442

00:21:32,000 --> 00:21:34,000

I don't see any spinning bullets.

443

00:21:34,000 --> 00:21:37,000

So it's time to modify the method.

444

00:21:37,000 --> 00:21:40,000

So far, the direct shot did not work.

445

00:21:40,000 --> 00:21:45,000

So we're going to move on to the ricochet, which brings into play our larger frozen lakebed.

446

00:21:45,000 --> 00:21:51,000

What we're going to do is lower the angle of the shot, hopefully allowing the bullet to skip off the ice onto our frozen lakebed.

447

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

And we'll see if we can get that bullet spinning.

448

00:21:54,000 --> 00:21:59,000

We actually have information from the guy who supposedly did the shooting.

449

00:21:59,000 --> 00:22:06,000

And what he told us is that every time he tried it, the bullet bled at between two and eight feet from the point of impact of the ice.

450

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

We have a 10 foot slab of ice out there.

451

00:22:11,000 --> 00:22:14,000

Sounds easy. It won't be.

452

00:22:14,000 --> 00:22:20,000

Well, to find out, they're starting by using a ricochet friendly angle of 30 degrees.

453

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

I'm hoping this works.

454

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

In three, two, one.

455

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

It's a clean hit, but the bullets got a wall.

456

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

It's not on the pond nor in the cube.

457

00:22:31,000 --> 00:22:34,000

Wait a minute. That's good news because the bullet isn't in there.

458

00:22:34,000 --> 00:22:38,000

It did ricochet. I don't know where it went, but at least it popped out right.

459

00:22:38,000 --> 00:22:43,000

The high speed confirms that on the one hand they did get a ricochet.

460

00:22:43,000 --> 00:22:48,000

But on the other, the bouncing bullet did not land on their lake.

461

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

So they reset the shot.

462

00:22:50,000 --> 00:22:54,000

All right, let's go before spring comes.

463

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

But again, the bullet disappears.

464

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

The good news is we got a ricochet.

465

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

The bad news, we can't find the bullet anywhere.

466

00:23:03,000 --> 00:23:06,000

It's nowhere on the lake bed, so that's why we have this.

467

00:23:06,000 --> 00:23:12,000

This backboard with the white paper is going to tell us if the bullet hits this, we'll know exactly

where it goes.

468

00:23:12,000 --> 00:23:14,000

All right, we're hot.

469

00:23:14,000 --> 00:23:16,000

That's the thing.

470

00:23:16,000 --> 00:23:18,000

Is this the magic formula?

471

00:23:18,000 --> 00:23:24,000

But in practice, even the ricochet catcher doesn't catch the ricochet.

472

00:23:24,000 --> 00:23:28,000

So it must be firing way over our backboard.

473

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

So next, the team wrangles the angle.

474

00:23:31,000 --> 00:23:36,000

But whether it be high, we are loaded at 45 degrees.

475

00:23:36,000 --> 00:23:39,000

Low, 31 degrees.

476

00:23:39,000 --> 00:23:41,000

Or somewhere in between.

477

00:23:41,000 --> 00:23:44,000

All right, we're going to go to the next round.

478

00:23:44,000 --> 00:23:46,000

Or somewhere in between.

479

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

All right, we are locked and loaded at a 38 degree angle.

480

00:23:49,000 --> 00:23:52,000

The ricocheting round never lands on the lake.

481

00:23:52,000 --> 00:23:56,000

And I don't see a spinning bullet.

482

00:23:56,000 --> 00:23:58,000

I don't see the ricochet at all.

483

00:23:58,000 --> 00:23:59,000

Anything?

484

00:23:59,000 --> 00:24:00,000

Backboard's clean.

485

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

You know, we can be here all day.

486

00:24:02,000 --> 00:24:04,000

We have been here all day.

487

00:24:04,000 --> 00:24:06,000

And what a frustrating day it's been.

488

00:24:06,000 --> 00:24:13,000

But without finding a single ricochet, it's just not possible to call the myth one way or the other.

489

00:24:13,000 --> 00:24:18,000

We've been experimenting all day to find the perfect conditions to create the mythical spinning bullet.

490

00:24:18,000 --> 00:24:21,000

Now we have the right temperature of ice, the right hardness.

491

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

Unfortunately, we have an extremely unpredictable ricochet.

492

00:24:25,000 --> 00:24:27,000

We can't find where the bullet lands.

493

00:24:27,000 --> 00:24:34,000

Now, we've created the biggest frozen pond that we possibly could in summer with all of the available ice that we could source.

494

00:24:34,000 --> 00:24:36,000

We need to go bigger.

495

00:24:36,000 --> 00:24:39,000

We need something a little more naturally huge and frozen.

496

00:24:43,000 --> 00:24:45,000

What's the best thing you've seen on the show at home?

497

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

We are what you call experts.

498

00:24:52,000 --> 00:24:57,000

In Spycar, the revenge, wheel spikes were a rip-roaring success.

499

00:24:57,000 --> 00:24:59,000

Not enough of you!

500

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

So now it's on to secret agent, anecdote number two.

501

00:25:03,000 --> 00:25:05,000

Car-mounted guns.

502

00:25:05,000 --> 00:25:10,000

Yes, I've been saying this for years that car-mounted guns for a Spycar don't make any sense to me.

503

00:25:10,000 --> 00:25:14,000

They're fixed. You cannot aim them except by driving.

504

00:25:14,000 --> 00:25:16,000

That's got to be a huge inefficiency for a machine gun.

505

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

Well, I have seen some that are remote controlled and amable though.

506

00:25:19,000 --> 00:25:21,000

Those are in the minority, but I have seen them.

507

00:25:21,000 --> 00:25:23,000

So I think we should build a rig that gives us both.

508

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

I chase you with fixed guns on my hood and then we can do a second one where I chase you with a remote control,

509

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

amable gun mounted to the hood of my car.

510

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

Sold.

511

00:25:34,000 --> 00:25:37,000

The hood-mounted gun is a staple for any Spycar.

512

00:25:37,000 --> 00:25:40,000

But is it a viable weapon?

513

00:25:40,000 --> 00:25:46,000

Can such a device, fixed or movable, really guarantee an accurate aim?

514

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

Well, to find out, Adam's already selected his wheels and his weapon.

515

00:25:55,000 --> 00:26:03,000

This is a former police car and this is a super high-end 10-round per second paintball gun.

516

00:26:03,000 --> 00:26:08,000

I'm going to join these two things together to make two great tastes in one candy bar.

517

00:26:08,000 --> 00:26:13,000

Fabricating the fixed firearm will be a weld in the part,

518

00:26:13,000 --> 00:26:18,000

but the remote controlled fire is a much tougher task.

519

00:26:18,000 --> 00:26:24,000

So for the amable gun, I need to first build a mount that will let the gun move in three dimensions

520

00:26:24,000 --> 00:26:27,000

so I can fire at Jamie's car wherever it might be.

521

00:26:28,000 --> 00:26:34,000

There's the basics right there. Up, down, side to side.

522

00:26:34,000 --> 00:26:40,000

Then I'm going to add a joystick system so that I can control the gun's aim from inside the car while driving.

523

00:26:40,000 --> 00:26:41,000

That's XY control.

524

00:26:41,000 --> 00:26:46,000

Next comes the all-important trigger, so I'll be able to shoot up to 600 rounds per minute.

525

00:26:46,000 --> 00:26:47,000

I press this.

526

00:26:48,000 --> 00:26:49,000

Get out of fire.

527

00:26:52,000 --> 00:26:53,000

That's remote firing.

528

00:26:53,000 --> 00:26:58,000

Finally, I'm going to add a camera onto the mount and a monitor onto the dashboard

529

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

so I can see exactly where I'm aiming.

530

00:27:01,000 --> 00:27:04,000

This camera is what turns this from something cool into something awesome.

531

00:27:06,000 --> 00:27:07,000

Jamie, come here. Check it out.

532

00:27:08,000 --> 00:27:09,000

Wow.

533

00:27:11,000 --> 00:27:12,000

In your face.

534

00:27:14,000 --> 00:27:15,000

That looks great.

535

00:27:15,000 --> 00:27:20,000

Actually, I should say it looks like crap, but it works great.

536

00:27:21,000 --> 00:27:26,000

And with those words of encouragement, Adam gets on with the final part of his firearm.

537

00:27:28,000 --> 00:27:32,000

A frame that should feed a plethora of paintballs into the gun.

538

00:27:35,000 --> 00:27:37,000

It's not pretty, but will it work?

539

00:27:43,000 --> 00:27:45,000

Oh, I got you. I got you.

540

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

Oh, yeah. You want some of this? You want a piece of this? You want some more?

541

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

Hey, you want some? You want some?

542

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

You so wish you were me right now.

543

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

All right, so where do we stand?

544

00:28:00,000 --> 00:28:02,000

Well, we've got two issues.

545

00:28:02,000 --> 00:28:07,000

One, we can't get a spin from a direct hit, and two, we can't find a ricochet.

546

00:28:07,000 --> 00:28:09,000

Not only that, this is supposed to be easy.

547

00:28:09,000 --> 00:28:12,000

I mean, in the video the guy shoots, you get a spin.

548

00:28:12,000 --> 00:28:13,000

That's not what we found at all.

549

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

Not so fast. Check this out.

550

00:28:15,000 --> 00:28:17,000

You're not going to believe what we found.

551

00:28:17,000 --> 00:28:20,000

Now, the cameraman was going through some of the footage.

552

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

Now, listen, can you hear that?

553

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

I don't know what that is, but it could potentially be a spinning bullet.

554

00:28:30,000 --> 00:28:32,000

I mean, we can't see it, but we can definitely hear something.

555

00:28:32,000 --> 00:28:34,000

Okay, well, that brings us back from the dead.

556

00:28:34,000 --> 00:28:36,000

I think we should definitely stick to our plan.

557

00:28:36,000 --> 00:28:41,000

And the plan being we wait until winter and try this again on an actual frozen lake

558

00:28:41,000 --> 00:28:43,000

where we might have a chance of this working.

559

00:28:43,000 --> 00:28:45,000

All right, let's reconvene in six months.

560

00:28:47,000 --> 00:28:51,000

From the San Francisco sun to a blizzard in the Sierra Nevada,

561

00:28:51,000 --> 00:28:54,000

this winter the team is going that extra mile.

562

00:28:54,000 --> 00:28:56,000

Save yourselves.

563

00:28:56,000 --> 00:28:59,000

Rumor has it there's a lake out here.

564

00:28:59,000 --> 00:29:01,000

I think it's over there.

565

00:29:01,000 --> 00:29:04,000

This looks a little more picturesque in the brochures.

566

00:29:04,000 --> 00:29:07,000

All right, so what I have behind me is a frozen lake.

567

00:29:07,000 --> 00:29:09,000

I know it doesn't really look like it.

568

00:29:09,000 --> 00:29:11,000

It looks more like a snow field.

569

00:29:11,000 --> 00:29:13,000

We're at 7,900 feet.

570

00:29:13,000 --> 00:29:15,000

The temperature is 10 degrees.

571

00:29:15,000 --> 00:29:19,000

This is exactly what we need to test this myth.

572

00:29:19,000 --> 00:29:22,000

The only problem is we're in the middle of a snowstorm.

573

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

I'm freezing my **** up.

574

00:29:24,000 --> 00:29:26,000

Our next myth is in the Bahamas, right?

575

00:29:26,000 --> 00:29:27,000

Yeah.

576

00:29:27,000 --> 00:29:33,000

Despite Tori's optimism, the temperature of his nether regions is certainly not the only problem.

577

00:29:33,000 --> 00:29:36,000

Look, so building our own frozen lake was problematic,

578

00:29:36,000 --> 00:29:39,000

but compared to this, it was child's play.

579

00:29:39,000 --> 00:29:41,000

Here is what we're up against.

580

00:29:41,000 --> 00:29:46,000

Our blast shields we left out overnight are now buried under six feet of snow.

581

00:29:46,000 --> 00:29:49,000

Our paramedic can't get here because the roads closed,

582

00:29:49,000 --> 00:29:53,000

but worse of all, the lake is buried under three feet of snow,

583

00:29:53,000 --> 00:29:59,000

which means before we do any shooting, we've got to dig to get down to the ice.

584

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

And as the weather goes from bad to worse...

585

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

I've already dug two feet. I haven't even seen ice yet.

586

00:30:05,000 --> 00:30:08,000

That digging gets harder and harder.

587

00:30:08,000 --> 00:30:13,000

It's like we keep digging it out, and Mother Nature just keeps filling it back in.

588

00:30:13,000 --> 00:30:16,000

So Carrie brings in reinforcements.

589

00:30:16,000 --> 00:30:21,000

Since we're digging at high altitude and fighting 40 a mile an hour gusty winds,

590

00:30:21,000 --> 00:30:24,000

we've decided to bring in a few helpers,

591

00:30:24,000 --> 00:30:28,000

like the sheriff who lives up here, and maybe a few others.

592

00:30:28,000 --> 00:30:34,000

With all hands on deck, the team exposes enough ice before anyone gets exposure.

593

00:30:34,000 --> 00:30:38,000

So the good news is, if you can call anything good news in these kinds of conditions,

594

00:30:38,000 --> 00:30:41,000

we found the ice. So now we're ready to start testing.

595

00:30:41,000 --> 00:30:46,000

Now remember, this myth is about shooting a 9mm into a frozen lake bed

596

00:30:46,000 --> 00:30:49,000

and fighting the bullets spinning like a top.

597

00:30:49,000 --> 00:30:53,000

It seems kind of counterintuitive to fire into the ice that you're standing on,

598

00:30:53,000 --> 00:30:55,000

but this isn't logic busters.

599

00:30:55,000 --> 00:30:58,000

We've found a great efforts to make this myth work,

600

00:30:58,000 --> 00:31:02,000

including getting high-tech hearing devices, low-tech ear trumpets.

601

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

But as you can see by the horizontal snow zooming past the camera,

602

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

there is a huge amount of wind, and that is all we're going to hear in those hearing devices.

603

00:31:10,000 --> 00:31:15,000

So, we're going old-fashioned. We're running, we're listening.

604

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

But will that technique be good enough to locate the mythical spin?

605

00:31:20,000 --> 00:31:24,000

Alright, this is spinning ice bullet in 3, 2, 1.

606

00:31:24,000 --> 00:31:28,000

Next up, Adam unleashes the beast.

607

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

Eppering Jamie with spy agent orange.

608

00:31:33,000 --> 00:31:36,000

I'm not a godhead, I'm not sure.

609

00:31:39,000 --> 00:31:45,000

At an abandoned military base, Adam and Jamie are about to unleash the beast.

610

00:31:45,000 --> 00:31:48,000

It is a perfect day for chasing.

611

00:31:48,000 --> 00:31:49,000

And shooting.

612

00:31:49,000 --> 00:31:50,000

Indeed.

613

00:31:50,000 --> 00:31:55,000

As they test whether a spy car's hood-mounted howitzer can ever be accurate.

614

00:31:55,000 --> 00:31:57,000

Oh, yeah! Grapefied!

615

00:31:57,000 --> 00:32:02,000

But first up, like all good spy scientists, they're starting with a control.

616

00:32:02,000 --> 00:32:06,000

As long as we're shooting between cars, we thought it would be a good idea to start with a baseline.

617

00:32:06,000 --> 00:32:09,000

The most common way you see people shoot between cars in the movie,

618

00:32:09,000 --> 00:32:15,000

in which during a car chase, the driver of the chasing car will start firing at the person that he's chasing.

619

00:32:17,000 --> 00:32:23,000

In this case, I will be that driver, and this will be my handy service revolver.

620

00:32:23,000 --> 00:32:27,000

And Mr. Heineman, well, he'll be my grizzled partner.

621

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

And last but not least, police driver Brian Fraser will play the target.

622

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

Okay, this is shooting the gun out the window.

623

00:32:36,000 --> 00:32:39,000

Brian, you may escape when ready.

624

00:32:41,000 --> 00:32:43,000

Oh, it's on!

625

00:32:45,000 --> 00:32:47,000

Okay.

626

00:32:47,000 --> 00:32:51,000

Adam will have one clip or 14 bullets to take down the target.

627

00:32:53,000 --> 00:32:55,000

It's hard to drive one-handed, I'll tell you that.

628

00:32:55,000 --> 00:33:01,000

As Brian dodges and weaves, Jamie keeps a tally of how many rounds Adam's let rip.

629

00:33:01,000 --> 00:33:05,000

Four. And how many have hit their target.

630

00:33:05,000 --> 00:33:09,000

Come on, bro! You haven't even hit the target yet.

631

00:33:09,000 --> 00:33:12,000

It's fair to say that this is a lot harder than it looks.

632

00:33:12,000 --> 00:33:14,000

Ah!

633

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

Firing the handheld gun out of the car proved to be far from ideal.

634

00:33:19,000 --> 00:33:21,000

It was more difficult than you would think.

635

00:33:21,000 --> 00:33:26,000

Not to say that it couldn't be done, but we were not able to stop the car or kill the driver.

636

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

Which begs the question, can the spy-inspired front-facing machine gun do any better?

637

00:33:32,000 --> 00:33:36,000

This test is with the machine gun in a fixed position.

638

00:33:36,000 --> 00:33:37,000

What do I think is going to happen?

639

00:33:37,000 --> 00:33:42,000

Well, I've actually been saying this for years, and it's the reason I always wanted to do this test.

640

00:33:42,000 --> 00:33:45,000

I don't think I'm going to be able to be very effective at hitting Jamie.

641

00:33:45,000 --> 00:33:49,000

I've always thought that fixed machine guns on the hood of a car was a stupid idea.

642

00:33:49,000 --> 00:33:54,000

Stupid because as Target Jamie explains, they only fire straight ahead.

643

00:33:55,000 --> 00:33:57,000

Now, Adam's goal is to take me out.

644

00:33:57,000 --> 00:34:02,000

And that means that he has to hit me in the head, or he has to hit the tire of the car.

645

00:34:02,000 --> 00:34:08,000

Now, given that he's got no subtle control, it's only done by aiming the car,

646

00:34:08,000 --> 00:34:11,000

I think it's going to be almost impossible.

647

00:34:11,000 --> 00:34:16,000

Alright, Mr. Heinemann, you may start whenever you think you're ready.

648

00:34:16,000 --> 00:34:19,000

Okay, sixth gun.

649

00:34:19,000 --> 00:34:23,000

In three, two, one.

650

00:34:23,000 --> 00:34:28,000

Like the last test, this trial will also end when the gun runs out of ammo.

651

00:34:28,000 --> 00:34:30,000

Hold!

652

00:34:32,000 --> 00:34:35,000

Yeah, come to papa.

653

00:34:35,000 --> 00:34:40,000

But unlike the last test, this time Adam's got 400 paintballs to fire.

654

00:34:40,000 --> 00:34:43,000

There we go. See what's about to happen.

655

00:34:43,000 --> 00:34:48,000

At first, things pan out just as expected as Adam fires miss after miss.

656

00:34:48,000 --> 00:34:53,000

Yet slowly but surely, he starts to get his eye in.

657

00:34:53,000 --> 00:34:56,000

I might have got hit, I'm not sure.

658

00:34:56,000 --> 00:35:02,000

And pretty soon the occasional hit turns into a relentless barrage of bullets.

659

00:35:04,000 --> 00:35:10,000

There's some bullets all over the windshield right near me, so I'm feeling pretty shot up, actually.

660

00:35:10,000 --> 00:35:15,000

No matter what moves Jamie makes, Adam nails him every time.

661

00:35:15,000 --> 00:35:18,000

Until he's out of ammo.

662

00:35:18,000 --> 00:35:23,000

Wow! What a horror show!

663

00:35:23,000 --> 00:35:26,000

I think I achieved my double O status on this run.

664

00:35:26,000 --> 00:35:28,000

Agent Heinemann has successfully been neutralized.

665

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

Not only have I taken out the mudflat, not only have I taken out the trunk,

666

00:35:33,000 --> 00:35:36,000

I'm feeling the spray with extreme prejudice.

667

00:35:36,000 --> 00:35:40,000

I've also got a clean hit to the back of the seat, a clean hit to his helmet.

668

00:35:40,000 --> 00:35:42,000

I'm on about head, I'm not sure.

669

00:35:42,000 --> 00:35:45,000

And I've destroyed his windshield and several of his slide windows.

670

00:35:45,000 --> 00:35:47,000

I want to hit the windshield.

671

00:35:47,000 --> 00:35:52,000

So given that the gun itself couldn't move, how did Adam end up doing so well?

672

00:35:52,000 --> 00:35:56,000

For the first third of the test, as I catch up with Jamie and he's swerving,

673

00:35:56,000 --> 00:35:59,000

it always seems that my bullets going over his car.

674

00:35:59,000 --> 00:36:03,000

And I have this epiphany, if I smack on the brakes, the front of the car goes down,

675

00:36:03,000 --> 00:36:05,000

and I can actually aim that way.

676

00:36:05,000 --> 00:36:09,000

And it turns out I can aim plus or minus, like, 10 degrees that way. It was fantastic.

677

00:36:09,000 --> 00:36:14,000

I coupled that with swerving back and forth, and somewhere around halfway through this test,

678

00:36:14,000 --> 00:36:22,000

I found my level and just started laying paintballs into the driver's cabin of Jamie's car.

679

00:36:22,000 --> 00:36:27,000

It worked far better than I imagined it possibly could without having physically tried it.

680

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

Coming right up, will the team finally spin out?

681

00:36:31,000 --> 00:36:33,000

It is spinning!

682

00:36:33,000 --> 00:36:35,000

And going in for the kill.

683

00:36:35,000 --> 00:36:39,000

A movable feast for Adam's aimable gun.

684

00:36:39,000 --> 00:36:42,000

Oh, the aiming is awesome!

685

00:36:47,000 --> 00:36:53,000

Here we are on the Cape Old Frozen Lake with winds up to 25 miles an hour straight in your face.

686

00:36:53,000 --> 00:36:56,000

We got temperature lows about negative 30.

687

00:36:56,000 --> 00:37:00,000

And let me tell you, it does not look like it's getting a lot up.

688

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

All of which is making for some seriously challenging testing.

689

00:37:05,000 --> 00:37:09,000

So given the terrible conditions, here is our plan.

690

00:37:09,000 --> 00:37:13,000

We've positioned our gun at the 42 degree angle.

691

00:37:13,000 --> 00:37:19,000

We are triggering it with a string pull, and we're going to rush in to see if we can find the bullet.

692

00:37:19,000 --> 00:37:23,000

And given the wide out, I think we're also going to montage the results.

693

00:37:23,000 --> 00:37:24,000

Sounds like a plan.

694

00:37:24,000 --> 00:37:28,000

Alright, this is spinning, guys. Will it? In three, two, one...

695

00:37:29,000 --> 00:37:31,000

Run like the wind!

696

00:37:31,000 --> 00:37:34,000

But unfortunately, it's another montage of failure.

697

00:37:34,000 --> 00:37:36,000

Oh, here's the bullet.

698

00:37:36,000 --> 00:37:38,000

But it's not spinning.

699

00:37:38,000 --> 00:37:39,000

Not at all!

700

00:37:39,000 --> 00:37:40,000

As hit...

701

00:37:41,000 --> 00:37:42,000

After hit...

702

00:37:43,000 --> 00:37:45,000

I don't see any spinning bullets.

703

00:37:46,000 --> 00:37:48,000

Misses out on the spin.

704

00:37:48,000 --> 00:37:52,000

I can't feel my fingers, and I can't see any bullets.

705

00:37:52,000 --> 00:37:55,000

As the temperature dips to 5 degrees Fahrenheit...

706

00:37:55,000 --> 00:37:56,000

What?

707

00:37:57,000 --> 00:37:59,000

Morale is just as low.

708

00:37:59,000 --> 00:38:01,000

This bit sucks.

709

00:38:01,000 --> 00:38:04,000

But Tori wants to try one more thing.

710

00:38:04,000 --> 00:38:07,000

Now, there's a couple of things that we think are happening.

711

00:38:07,000 --> 00:38:10,000

One is maybe the bullets are hitting the ice and skipping off into the snow,

712

00:38:10,000 --> 00:38:14,000

or maybe the bullets are hitting the ice and actually bouncing back into the snow.

713

00:38:14,000 --> 00:38:19,000

So what we're going to do is change the target area closer to the center of our ice pack,

714

00:38:19,000 --> 00:38:23,000

take a shot and see if we can find a bullet and see exactly what is happening to these things.

715

00:38:23,000 --> 00:38:29,000

With hypothermia a very real possibility, it really is now or never.

716

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

Will giving the bullet room to ricochet backwards rather than forwards finally spin out?

717

00:38:35,000 --> 00:38:39,000

Okay, this is spinning ice bullet with room to bounce backwards.

718

00:38:39,000 --> 00:38:42,000

In three, two, one...

719

00:38:42,000 --> 00:38:43,000

Come on!

720

00:38:44,000 --> 00:38:46,000

Open it! It's spinning!

721

00:38:46,000 --> 00:38:47,000

It's spinning!

722

00:38:47,000 --> 00:38:48,000

Look at that!

723

00:38:49,000 --> 00:38:51,000

We got a spinning bullet!

724

00:38:51,000 --> 00:38:54,000

Holy crap! It worked!

725

00:38:54,000 --> 00:38:57,000

It's the shot that brought this myth back from the cold.

726

00:38:59,000 --> 00:39:00,000

I can't believe it worked!

727

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

I can't believe we got a spinning bullet.

728

00:39:03,000 --> 00:39:08,000

At last, after countless attempts, they got the spin they were after.

729

00:39:08,000 --> 00:39:10,000

And that's just the tip of the iceberg.

730

00:39:10,000 --> 00:39:15,000

If we can get one spinning bullet, that was successful. Let's do it again!

731

00:39:15,000 --> 00:39:17,000

In three, two, one...

732

00:39:17,000 --> 00:39:20,000

It's spinning!

733

00:39:20,000 --> 00:39:23,000

That's the second one in a row!

734

00:39:23,000 --> 00:39:25,000

And when it's three for three...

735

00:39:25,000 --> 00:39:26,000

It is spinning!

736

00:39:26,000 --> 00:39:30,000

That is continued success. We have gotten one after the other to spin.

737

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

You might say they're on a roll.

738

00:39:35,000 --> 00:39:37,000

It's spinning again!

739

00:39:37,000 --> 00:39:40,000

We've done this over and over. This myth is confirmed.

740

00:39:40,000 --> 00:39:41,000

Confirmed!

741

00:39:41,000 --> 00:39:44,000

I cannot believe how well this is working.

742

00:39:45,000 --> 00:39:50,000

We tried creating an ice lake bed that we could shoot into back at home,

743

00:39:50,000 --> 00:39:55,000

but it really did take this sort of extreme weather for us to get a spinning bullet.

744

00:39:55,000 --> 00:39:57,000

It was all worth it.

745

00:39:57,000 --> 00:40:03,000

The 70 mile an hour winds, the 10 degrees, the frozen toes, and the grant sickle.

746

00:40:06,000 --> 00:40:09,000

And with that, it's time to get warmed up.

747

00:40:09,000 --> 00:40:11,000

Where's that rescue party?

748

00:40:11,000 --> 00:40:13,000

We are the rescue party!

749

00:40:13,000 --> 00:40:15,000

We are the rescue party!

750

00:40:27,000 --> 00:40:29,000

At Spycar Mission Control...

751

00:40:29,000 --> 00:40:31,000

From the Papa...

752

00:40:31,000 --> 00:40:35,000

The forward-facing firearm just took out its target, and then some.

753

00:40:35,000 --> 00:40:37,000

That would be on my wildest dream.

754

00:40:37,000 --> 00:40:39,000

So what's next?

755

00:40:39,000 --> 00:40:44,000

Now it's time to unlock what I thought was going to be the secret potential power of this rig,

756

00:40:44,000 --> 00:40:50,000

which is from inside the car I can control an XY axis wherever this gun fires.

757

00:40:50,000 --> 00:40:53,000

I can put paper where I want to put them.

758

00:40:56,000 --> 00:40:58,000

Adam did pretty well with the fixed gun,

759

00:40:58,000 --> 00:41:02,000

and it makes sense that he should be able to do even better with an aimable gun.

760

00:41:02,000 --> 00:41:07,000

But the thing is, this adds a little bit of multitasking that he has to do,

761

00:41:07,000 --> 00:41:10,000

but it might actually have the opposite effect.

762

00:41:10,000 --> 00:41:12,000

Okay, aimable gun.

763

00:41:12,000 --> 00:41:16,000

In three, two, one.

764

00:41:16,000 --> 00:41:20,000

For the final time, the guys put their pedals to the metal.

765

00:41:20,000 --> 00:41:25,000

Oh, the game is afoot! Here we go!

766

00:41:25,000 --> 00:41:27,000

Do your best, buddy.

767

00:41:27,000 --> 00:41:31,000

Come on, Adam, you are mine!

768

00:41:31,000 --> 00:41:36,000

Rather than unleashing bullets from the get-go, on this run, Adam vides his time.

769

00:41:36,000 --> 00:41:38,000

Come on, Mason, hide them in!

770

00:41:38,000 --> 00:41:42,000

Lining up the target thanks to his gun's camera and the dashboard's monitor.

771

00:41:42,000 --> 00:41:44,000

I'm so on you!

772

00:41:44,000 --> 00:41:47,000

And only when Jamie weaves into the crosshairs...

773

00:41:47,000 --> 00:41:51,000

Turn all you want, man! I can follow you!

774

00:41:51,000 --> 00:41:53,000

...does Adam unleash hell.

775

00:41:53,000 --> 00:41:56,000

Oh, the game is awesome!

776

00:41:56,000 --> 00:42:00,000

I totally got you! Look at that, I totally got you!

777

00:42:01,000 --> 00:42:06,000

With radar-like precision, the bullets are propelled to do maximum damage.

778

00:42:06,000 --> 00:42:07,000

Go ahead!

779

00:42:07,000 --> 00:42:11,000

So much so that this time, Jamie gives up the ghost.

780

00:42:11,000 --> 00:42:12,000

Oh, yeah!

781

00:42:12,000 --> 00:42:15,000

With Adam having fired off just 60 rounds.

782

00:42:15,000 --> 00:42:18,000

Woo!

783

00:42:18,000 --> 00:42:22,000

So, was making my hood-mounted machine gun aimable more effective?

784

00:42:22,000 --> 00:42:26,000

I think the entire story is told from right where I'm standing.

785

00:42:26,000 --> 00:42:30,000

If you look at this car after this test and compare it to what this car looked like

786

00:42:30,000 --> 00:42:34,000

after my fixed machine gun test when it was riddled with paint,

787

00:42:34,000 --> 00:42:39,000

you can just see that this is a far more surgical and effective way to take somebody out.

788

00:42:39,000 --> 00:42:41,000

Ain't that the truth?

789

00:42:41,000 --> 00:42:49,000

Using fewer bullets to chalk up more kill shots, the aimable gun is the winner of this Cold War.

790

00:42:49,000 --> 00:42:54,000

Well, I think from all this testing, we can conclude that a machine gun on the hood of your car equals good.

791

00:42:54,000 --> 00:42:59,000

As a secret agent weapon, even the stationary machine gun was far more effective than I thought it would be.

792

00:42:59,000 --> 00:43:05,000

Yeah, but their effectiveness seems to be largely due to the sheer volume of bullets they're able to spew out.

793

00:43:05,000 --> 00:43:07,000

I mean, sooner or later, they're going to hit something.

794

00:43:07,000 --> 00:43:10,000

Okay, but isn't that always the point of a machine gun?

795

00:43:10,000 --> 00:43:12,000

Indeed it is, mole frayer.