

1

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

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

2

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

Oh, we got a lot of myths from the movies.

3

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

I think my favorite was explosive decompression.

4

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

I like Goldfinger.

5

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

How about Rear Axel?

6

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

You know, we should do a whole episode in only movie myths.

7

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

You guys be quiet so we can watch this movie.

8

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

Boo!

9

00:00:49,000 --> 00:00:54,000

You're right, Tori. You don't want to miss a frame of this feature-length episode.

10

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

It's lights, camera, action as mythbusters goes to the movies

11

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

and puts some of Hollywood's biggest scenes to the test.

12

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

Dangerous smile, middle man.

13

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

Take a fall with Indiana Jones.

14

00:01:12,000 --> 00:01:16,000

Head in the opposite direction on Austin Powers' ejector seat.

15

00:01:17,000 --> 00:01:24,000

Descend into the underworld to find out if a ballistics breakthrough is possible.

16

00:01:30,000 --> 00:01:32,000

Also, sparks will fly.

17

00:01:35,000 --> 00:01:38,000

As the guys try to cut a sword with a sword.

18

00:01:41,000 --> 00:01:45,000

And our own Dudes of Hazard ramp up a car chase classic.

19

00:01:45,000 --> 00:01:47,000

We're gonna jump the hump.

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00:01:47,000 --> 00:01:49,000

You'll believe a car can fly.

21

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

Who are the mythbusters?

22

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

Adam Savage.

23

00:01:55,000 --> 00:01:56,000

Joke!

24

00:01:57,000 --> 00:01:58,000

And Jamie Heineman.

25

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

This is gonna kill you.

26

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

Between them more than 30 years of special effects experience.

27

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

That's what I'm talking about!

28

00:02:08,000 --> 00:02:10,000

Joining them, Tori Belachie.

29

00:02:10,000 --> 00:02:11,000

Very excited about this.

30

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

Carrie Byron.

31

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

Look, he cracked into his skull.

32

00:02:14,000 --> 00:02:16,000

And Grant Imahara.

33

00:02:16,000 --> 00:02:18,000

Don't say anything.

34

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

They don't just tell the myths.

35

00:02:21,000 --> 00:02:23,000

They put them to the test.

36

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

We kick off our blockbuster special with a classic movie myth.

37

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

And the guys couldn't resist playing Buster Keaton.

38

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

Or should that be Mythbuster Keaton?

39

00:02:44,000 --> 00:02:48,000

We're gonna kick off our blockbuster special with a classic movie myth.

40

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

And the guys couldn't resist playing Buster Keaton.

41

00:02:51,000 --> 00:02:53,000

Or should that be Mythbuster Keaton?

42

00:02:53,000 --> 00:02:56,000

We're gonna kick off our blockbuster special with a classic movie myth.

43

00:02:56,000 --> 00:02:59,000

And the guys couldn't resist playing Buster Keaton.

44

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

And the guys couldn't resist playing Buster Keaton.

45

00:03:02,000 --> 00:03:05,000

And the guys couldn't resist playing Buster Keaton.

46

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

And the guys couldn't resist playing Buster Keaton.

47

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

And the guys couldn't resist playing Buster Keaton.

48

00:03:11,000 --> 00:03:14,000

And the guys couldn't resist playing Buster Keaton.

49

00:03:42,000 --> 00:03:47,000

The Mythbusters are about to take a dive into some movie mayhem.

50

00:03:47,000 --> 00:03:51,000

Hope there's something soft and bouncy to break their fall.

51

00:03:56,000 --> 00:03:58,000

So, awning fall, what's the myth?

52

00:03:58,000 --> 00:04:01,000

You jump off the edge of a building and you survive the fall

53

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

because you are going through awnings before you hit the ground.

54

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

Oh, just like in Temple of Doom?

55

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

Yeah.

56

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

Exactly.

57

00:04:08,000 --> 00:04:11,000

In Indiana Jones and the Temple of Doom,

58

00:04:11,000 --> 00:04:15,000

Indiana's voluptuous co-star are forced to jump from a window

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00:04:15,000 --> 00:04:17,000

to escape a hail of bullets.

60

00:04:17,000 --> 00:04:20,000

Luckily for them and moviegoers,

61

00:04:20,000 --> 00:04:24,000

there just happens to be some awnings in place to break their fall.

62

00:04:27,000 --> 00:04:30,000

Well, that sounds dangerous. How are we gonna test this one?

63

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

Well, like everything, we're gonna test it in two parts.

64

00:04:32,000 --> 00:04:34,000

First comes testing the circumstances of the myth,

65

00:04:34,000 --> 00:04:36,000

which is to bolt some awnings to the side of a building.

66

00:04:36,000 --> 00:04:40,000

And throw Buster through them and see how survivable it actually is.

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00:04:40,000 --> 00:04:44,000

Then we're gonna get some stuntmen to teach us how Hollywood would set up

68

00:04:44,000 --> 00:04:46,000

a stunt like that to do it safely.

69

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

Part one of this myth will be straightforward.

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00:04:50,000 --> 00:04:52,000

They'll hoist Buster into the air,

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00:04:52,000 --> 00:04:57,000

drop him onto the awnings, and see if he busts through or just busts.

72

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

First things first, they need a building to drop him off.

73

00:05:03,000 --> 00:05:07,000

Carrie, Tori, and Grant become location scouts.

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00:05:07,000 --> 00:05:11,000

This deserted military base fulfills the basic requirements.

75

00:05:12,000 --> 00:05:15,000

It has a lot of flat roofs, a long way off the ground.

76

00:05:18,000 --> 00:05:21,000

I don't think you want to fall from this distance.

77

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

While they're choosing the drop-off point,

78

00:05:24,000 --> 00:05:27,000

Adam and Jamie are fawning over an awning.

79

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

Using stills from the Temple of Doom,

80

00:05:30,000 --> 00:05:34,000

the guys at Zebra awnings have made a shade that matches the ones in the movie.

81

00:05:35,000 --> 00:05:38,000

Would it be enough to save you if you fell onto it?

82

00:05:38,000 --> 00:05:40,000

Michael, what kind of fabric is this and how heavy is it?

83

00:05:41,000 --> 00:05:45,000

100% acrylic fabric. It's about 9.75 oz. per square yard.

84

00:05:46,000 --> 00:05:50,000

It's exactly the same material you find on any building or storefront.

85

00:05:51,000 --> 00:05:54,000

They take six awnings, three for Buster's fall,

86

00:05:54,000 --> 00:05:57,000

and three for Adam to crash through a little later.

87

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

Down at the base, Tori, Carrie, and Grant have chosen a suitably sheer drop

88

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

and start drilling holes for the awning mounts.

89

00:06:09,000 --> 00:06:12,000

But it's tough going. This was a nuclear fallout shelter

90

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

constructed during the darkest days of the Cold War.

91

00:06:16,000 --> 00:06:19,000

The walls are lined with steel reinforcing bars.

92

00:06:22,000 --> 00:06:25,000

You know, there's always the possibility.

93

00:06:25,000 --> 00:06:30,000

You know, I thought we were going to be able to drill through this cement a lot easier than this.

94

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

Drill bits are being broken faster than the dreams of a movie star would be

95

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

fresh off the bus from Kansas.

96

00:06:40,000 --> 00:06:44,000

But thanks to the magic of television, we can hit the fast forward button.

97

00:06:45,000 --> 00:06:47,000

A full day and a half later...

98

00:06:48,000 --> 00:06:51,000

Man, what a day!

99

00:06:52,000 --> 00:06:53,000

Good one.

100

00:06:53,000 --> 00:06:58,000

The result? Three awnings, one above the other, just like in Temple of Doom.

101

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

Now the start of the show has arrived on set.

102

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

Buster's reprising his role as, what else, the fall guy.

103

00:07:14,000 --> 00:07:19,000

I collected some of the shock watch stickers so we can check the G's on his different parts of his body.

104

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

We're always trying to figure out what is the lethal limit?

105

00:07:23,000 --> 00:07:26,000

How much damage is a deadly amount of damage?

106

00:07:26,000 --> 00:07:30,000

And we've attached all sorts of different meters and devices to Buster

107

00:07:30,000 --> 00:07:35,000

and run into trouble with most of them except for these things, these shock watch stickers.

108

00:07:35,000 --> 00:07:39,000

Red measures a shock of 50 G's, which is survivable.

109

00:07:39,000 --> 00:07:42,000

Orange is a bone-shattering 75 G's.

110

00:07:42,000 --> 00:07:46,000

The green one on his head measures a shock of 100 G's.

111

00:07:46,000 --> 00:07:48,000

That's lethal.

112

00:07:48,000 --> 00:07:51,000

If this one trips, Buster's are gone.

113

00:07:52,000 --> 00:07:57,000

Buster's harness is hooked up to a quick-release shackle, which is connected to the boom lift cage.

114

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

Soon he's swinging in mid-air above the awnings.

115

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

Will he emulate Indiana Jones?

116

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

Alright, 85% of Buster hits that top awning and lands somewhere about 20 feet out on the street.

117

00:08:16,000 --> 00:08:20,000

4% chance that he goes through one awning and into the next.

118

00:08:20,000 --> 00:08:22,000

That's like a 1%.

119

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

Negative 1% that he goes through two awnings and lands safely in the third awning.

120

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

100% chance of Buster death.

121

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

Meanwhile, inspired by a century of celluloid sword fighting,

122

00:08:44,000 --> 00:08:49,000

the Mythbusters are about to take another movie myth and cut it down to size.

123

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

So what's the myth?

124

00:08:58,000 --> 00:09:01,000

Well, this is one I wish we were taking on ourselves.

125

00:09:01,000 --> 00:09:03,000

But you guys are going to handle it.

126

00:09:03,000 --> 00:09:05,000

It is from sword fights in the movies.

127

00:09:05,000 --> 00:09:12,000

Every time there's a sword fight in the movie, I swear the hero ends up king slicing the bad guy's sword in half with his sword.

128

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

So we're going to get to cut swords in half.

129

00:09:14,000 --> 00:09:16,000

We have to find out if that's possible.

130

00:09:16,000 --> 00:09:17,000

Dude, that sounds dangerous.

131

00:09:17,000 --> 00:09:19,000

And yet, fun!

132

00:09:21,000 --> 00:09:25,000

Sword cutting is a Hollywood cliché with a long and proud history.

133

00:09:25,000 --> 00:09:32,000

For instance, in the remake of the Count of Monte Cristo, James Cavitzel is making his point to Guy Pierce,

134

00:09:32,000 --> 00:09:35,000

when his sword is suddenly stunts it.

135

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

Okay, so if we're going to test this myth, obviously we're going to have to get some swords.

136

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

And this is actually the first hurdle.

137

00:09:42,000 --> 00:09:49,000

I mean, any sword that was made for real fighting is an antique and pretty much priceless.

138

00:09:49,000 --> 00:09:51,000

So I don't know what to do about that.

139

00:09:51,000 --> 00:09:56,000

Well, you know, I'm sure they have really high quality replicas that are made like the real thing.

140

00:09:56,000 --> 00:10:02,000

So when I get those, they're going to be, you know, they won't be cheap, but they're not going to be like priceless.

141

00:10:02,000 --> 00:10:06,000

Traditional sword makers use different types of steel.

142

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

These were then forged and folded together.

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

It's a technique that was honed over hundreds of years,

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00:10:14,000 --> 00:10:19,000

and the end product was a sword of truly formidable strength.

145

00:10:25,000 --> 00:10:29,000

The mythbusters will have to steal themselves for something a little less traditional.

146

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

These modern replicas have been cast from high-carbon steel.

147

00:10:34,000 --> 00:10:42,000

This is a bi-metal hardened steel katana battle-ready sword.

148

00:10:42,000 --> 00:10:46,000

Now these are the ones that we're going to be using for the actual cutting and target sword.

149

00:10:46,000 --> 00:10:52,000

These swords may look cool, but these are just stainless steel softer metal swords.

150

00:10:52,000 --> 00:10:54,000

These are the ones we're going to use for velocity tests,

151

00:10:54,000 --> 00:11:01,000

or if we need a softer metal target, or Tori and Grant need to get out some of their pretend samurai battles.

152

00:11:02,000 --> 00:11:06,000

Now we know the mythbusters usually like to be scientific about their work,

153

00:11:06,000 --> 00:11:10,000

but this time they're going to try the direct approach.

154

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

Alright, this whole myth is trying to cut a sword with another sword, right?

155

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

Yeah.

156

00:11:15,000 --> 00:11:18,000

So why don't we just try to cut a sword with another sword?

157

00:11:18,000 --> 00:11:19,000

Okay.

158

00:11:19,000 --> 00:11:25,000

Wearing the latest season's chainmail, the guys clap a sword and come out swinging.

159

00:11:32,000 --> 00:11:33,000

Ah!

160

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

Ah!

161

00:11:38,000 --> 00:11:43,000

In the end, the target blade isn't cut in two, but it is damaged.

162

00:11:44,000 --> 00:11:46,000

Maybe Hollywood has a point.

163

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

I gotta tell you, I'm really jealous about this.

164

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

I heard you guys were whacking these things all over the parking lot yesterday.

165

00:11:54,000 --> 00:11:55,000

Oh yeah.

166

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

We weren't able to break it though.

167

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

I mean, I practically broke my hand.

168

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

Yeah, my hands are still stinging.

169

00:12:01,000 --> 00:12:06,000

Well, look, it's time to get back to basics and make this thing swing as hard as possible.

170

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

It's time to build a sword whacking robot, man.

171

00:12:10,000 --> 00:12:13,000

Alright, I accept your challenge.

172

00:12:14,000 --> 00:12:18,000

Grant's robot will comprise a steel arm revolving on a spindle,

173

00:12:18,000 --> 00:12:22,000

coiled around the spindle a length of cable with weights attached.

174

00:12:22,000 --> 00:12:26,000

When a quick release fires, the weights will drop, pulling the cable,

175

00:12:26,000 --> 00:12:29,000

and the robot arm will swing into action.

176

00:12:30,000 --> 00:12:35,000

You know, guys, it occurs to me that you can't make this machine swing this thing

177

00:12:35,000 --> 00:12:38,000

just at the fastest speed possible.

178

00:12:38,000 --> 00:12:42,000

You want to fire it at your object with the same speed and the same power

179

00:12:42,000 --> 00:12:45,000

as the best swordsman you can find.

180

00:12:45,000 --> 00:12:49,000

So you should bring a swordsman in and clock his swinging speed.

181

00:12:49,000 --> 00:12:53,000

So that way we know it's humanly possible.

182

00:12:53,000 --> 00:12:54,000

Precisely.

183

00:12:55,000 --> 00:13:00,000

These guys are exponents of a samurai sword art called Tamashigiri.

184

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

They brought along the real thing, antique Japanese swords,

185

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

more at home in a museum than at Mythbusters.

186

00:13:07,000 --> 00:13:11,000

1300s, 1800s, 1600s.

187

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

And you brought these down here to show us.

188

00:13:14,000 --> 00:13:15,000

Sure.

189

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

You're very brave to bring these on set.

190

00:13:17,000 --> 00:13:20,000

So what I want to get to is because our fans nitpick.

191

00:13:21,000 --> 00:13:24,000

Now we're doing all these tests with this sword.

192

00:13:24,000 --> 00:13:27,000

You, with confidence, could say that we could come to some conclusions

193

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

by using these modern equivalents.

194

00:13:30,000 --> 00:13:35,000

I have that same sword that I use for cutting all the time when I practice.

195

00:13:35,000 --> 00:13:36,000

Perfect.

196

00:13:36,000 --> 00:13:38,000

That's what I want to hear.

197

00:13:39,000 --> 00:13:43,000

Remember, Grant's robot will have to match these guys for sword speed.

198

00:13:44,000 --> 00:13:47,000

Using the high-speed camera, they time how long it takes

199

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

for the blade to cut the straw mat target.

200

00:13:51,000 --> 00:13:55,000

The quickest time is 6 milliseconds to slice through 7 inches.

201

00:13:57,000 --> 00:14:00,000

That equates to a speed of 48 miles per hour.

202

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

That's how fast Grant's robot arm will have to swing.

203

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

Coming soon on this mega movie myth special,

204

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

Adam and Jamie aim to ride high on Austin Power's ejector seat.

205

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

That chair is going to clear this car really, really fast.

206

00:14:17,000 --> 00:14:22,000

And next, going down, find out if awnings could really have saved Indy.

207

00:14:22,000 --> 00:14:23,000

One.

208

00:14:30,000 --> 00:14:34,000

When Indiana Jones and his leading lady make an unscheduled exit

209

00:14:34,000 --> 00:14:37,000

from the top floor of a building, the only thing between them

210

00:14:37,000 --> 00:14:40,000

and certain doom are some awnings.

211

00:14:41,000 --> 00:14:47,000

The myth busters have replicated that scene

212

00:14:47,000 --> 00:14:50,000

and are poised to drop buster onto three awnings.

213

00:14:50,000 --> 00:14:52,000

Will they save busters bacon?

214

00:14:53,000 --> 00:14:55,000

Hold on to your hats.

215

00:14:56,000 --> 00:14:57,000

Did you almost lose a beret?

216

00:14:57,000 --> 00:14:58,000

Almost did.

217

00:14:58,000 --> 00:14:59,000

I've never known that to happen.

218

00:14:59,000 --> 00:15:02,000

Did you not put the double stick tape on it this morning?

219

00:15:03,000 --> 00:15:04,000

Pins out!

220

00:15:04,000 --> 00:15:08,000

Let's see, is an awning as good as a safety net?

221

00:15:08,000 --> 00:15:10,000

Or will it be a shroud?

222

00:15:10,000 --> 00:15:18,000

Alright, and you're going down in three, two, one.

223

00:15:26,000 --> 00:15:30,000

Buster hit the first awning and spilled onto the second, which tore open,

224

00:15:30,000 --> 00:15:34,000

leaving our hero in a rather undignified position.

225

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

Think that is Aztikin through?

226

00:15:36,000 --> 00:15:39,000

You'd think he might have earned himself a reprieve, but no.

227

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

Sorry, Buster, you've got to finish your fall.

228

00:15:50,000 --> 00:15:51,000

His ass fell off.

229

00:15:51,000 --> 00:15:53,000

Is that all of the debris?

230

00:15:53,000 --> 00:15:57,000

He might have gone to pieces, but did he survive the fall?

231

00:15:58,000 --> 00:16:02,000

Earlier, Carrie stuck shock sensors all over Buster.

232

00:16:02,000 --> 00:16:05,000

Those sensors will have registered the amount of shock force

233

00:16:05,000 --> 00:16:07,000

his body took in the fall.

234

00:16:07,000 --> 00:16:09,000

Wait, wait, here we've got an arm here.

235

00:16:09,000 --> 00:16:10,000

Let's see.

236

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

The orange shock watch is tripped.

237

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

The red shock watch is tripped.

238

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

It's 75 Gs in the chest.

239

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

Which means some broken ribs, but not necessarily death.

240

00:16:23,000 --> 00:16:26,000

What about the 100 G shock sensor in his head?

241

00:16:26,000 --> 00:16:29,000

If that tripped, then it's bye-bye Buster.

242

00:16:29,000 --> 00:16:31,000

Yes, that one was one that was in the head,

243

00:16:31,000 --> 00:16:33,000

and supposedly it takes 100 Gs to break the neck.

244

00:16:33,000 --> 00:16:35,000

So he didn't take that to the head.

245

00:16:35,000 --> 00:16:37,000

It looks like Buster lived.

246

00:16:37,000 --> 00:16:39,000

Adams more shocked than Buster.

247

00:16:39,000 --> 00:16:44,000

Buster seems to have definitively lived through that exercise.

248

00:16:44,000 --> 00:16:47,000

He's definitely a little worse for wear.

249

00:16:48,000 --> 00:16:54,000

But all of the metering equipment we had on him says that he survived that fall.

250

00:16:55,000 --> 00:16:59,000

What it tells me is that if you're going to fall off a building,

251

00:16:59,000 --> 00:17:02,000

this is not a half-bad way to do it.

252

00:17:02,000 --> 00:17:07,000

I mean, I wouldn't recommend trying it, but if you got it, I'd go this route.

253

00:17:12,000 --> 00:17:16,000

But Buster's not the last dummy you'll see dropped onto some awnings.

254

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

Dangerous mind, middle-time.

255

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

Soon, Adam will take the plunge and show how they stage a big drop in Hollywood.

256

00:17:25,000 --> 00:17:27,000

While Adam prepares to plummet,

257

00:17:27,000 --> 00:17:31,000

Tori, Carrie and Grant are cutting to the core of another Hollywood favorite.

258

00:17:32,000 --> 00:17:35,000

Can a sword really cut through another sword?

259

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

As happens in the Count of Monte Cristo?

260

00:17:38,000 --> 00:17:40,000

Touch me, I'll kill you.

261

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

To find out, Grant's building a mechanical rig

262

00:17:43,000 --> 00:17:48,000

that will wield a blade with the same speed and power as a trained swordsman.

263

00:17:48,000 --> 00:17:52,000

Your cutting sword is going to go here, horizontally.

264

00:17:53,000 --> 00:17:56,000

And we wind up the cable on this drum

265

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

and hang a weight off of here on the other side of the pulley.

266

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

When we release the weight, pulls down,

267

00:18:05,000 --> 00:18:08,000

pulling the cable off the drum, and swinging the sword around.

268

00:18:08,000 --> 00:18:09,000

Just like that.

269

00:18:10,000 --> 00:18:13,000

There's just one tiny disease that's going to happen.

270

00:18:13,000 --> 00:18:15,000

The arm swings at neck height.

271

00:18:15,000 --> 00:18:17,000

Decapitation hazard, everybody.

272

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

Which means a lot of walking around like Gratcho Marx.

273

00:18:23,000 --> 00:18:26,000

48 miles per hour is the target speed.

274

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

That's how fast our Samurai's blade traveled as it sliced through the straw mat.

275

00:18:30,000 --> 00:18:32,000

But there's one catch.

276

00:18:32,000 --> 00:18:37,000

The robot has to reach that speed in a single 180-degree arc.

277

00:18:37,000 --> 00:18:39,000

The arm swings at neck height.

278

00:18:39,000 --> 00:18:43,000

The robot has to reach that speed in a single 180-degree arc.

279

00:18:44,000 --> 00:18:48,000

Okay, velocity test in three, two, one.

280

00:18:52,000 --> 00:18:53,000

That wasn't very fast.

281

00:18:53,000 --> 00:18:54,000

I'm going to go stop it.

282

00:18:54,000 --> 00:18:56,000

That was only 25 pounds.

283

00:18:56,000 --> 00:18:59,000

Dropping more weight will make the sword swing faster.

284

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

In three, two, one.

285

00:19:04,000 --> 00:19:06,000

But not fast enough.

286

00:19:07,000 --> 00:19:10,000

Grant makes some modifications.

287

00:19:11,000 --> 00:19:14,000

First of all, I'm going to get rid of the heavy drum,

288

00:19:14,000 --> 00:19:18,000

because that's a lot of rotational inertia to overcome.

289

00:19:18,000 --> 00:19:20,000

And I think that's really killing our speed.

290

00:19:20,000 --> 00:19:24,000

They replace the cable with a chain, and the weights with a pneumatic actuator.

291

00:19:26,000 --> 00:19:28,000

Three, two, one.

292

00:19:31,000 --> 00:19:33,000

That looked like it worked.

293

00:19:33,000 --> 00:19:34,000

I think that worked.

294

00:19:34,000 --> 00:19:36,000

That was great.

295

00:19:38,000 --> 00:19:40,000

Now that's more like it.

296

00:19:41,000 --> 00:19:45,000

On that swing, the robot matched our swordsman's 48 miles per hour.

297

00:19:47,000 --> 00:19:49,000

But speed's not the only concern.

298

00:19:49,000 --> 00:19:53,000

The robot has to have the same penetration power as a real swordsman.

299

00:19:55,000 --> 00:20:00,000

Faced with a block of ballistics gel, our guest opens up a nine-inch gash.

300

00:20:01,000 --> 00:20:03,000

Wow, yeah.

301

00:20:03,000 --> 00:20:06,000

That's a good deep cut there.

302

00:20:06,000 --> 00:20:08,000

Can the robot do the same?

303

00:20:09,000 --> 00:20:12,000

We go in three, two, one.

304

00:20:13,000 --> 00:20:17,000

The blade plunged as deep as the samurai sword.

305

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

Oh, look at that!

306

00:20:21,000 --> 00:20:23,000

I guess we could go under the sword now.

307

00:20:23,000 --> 00:20:26,000

It looks like the robot warriors finally ready for battle.

308

00:20:26,000 --> 00:20:28,000

That is awesome.

309

00:20:28,000 --> 00:20:30,000

Coming up on Mythbusters.

310

00:20:31,000 --> 00:20:35,000

It's really possible to hide an ejection seat inside a car.

311

00:20:35,000 --> 00:20:39,000

And Adam prepares to follow in Buster's footsteps.

312

00:20:41,000 --> 00:20:43,000

Dangerous mind, middle-hand.

313

00:20:49,000 --> 00:20:56,000

The Mythbusters have gone to the movies to see if some of Hollywood's most spectacular scenes stack up in reality.

314

00:20:57,000 --> 00:21:02,000

Hollywood heroes can always rely on a well-placed window covering to save their bacon.

315

00:21:04,000 --> 00:21:10,000

To everyone's amazement, Buster showed that it does work outside the confines of Tinseltown.

316

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

According to our shock sensors, Buster survived, and what that means as far as the myth is that it's plausible.

317

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

How about that? It's totally survivable. I would not have called that.

318

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

That was amazing. In an emergency situation, if you have to get off the building, I would do it.

319

00:21:26,000 --> 00:21:30,000

Hold on there, cowboy, because I'm going to do this. I've been dying to do this.

320

00:21:30,000 --> 00:21:33,000

We're bringing in the stuntman. They're going to show me how it's really done.

321

00:21:35,000 --> 00:21:40,000

They've called in some top-notch stunt coordinators, and Adam's all set to take the plunge.

322

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

He's even wearing the Indiana Jones hat.

323

00:21:45,000 --> 00:21:48,000

Adam will be dropped at the end of a heavy-duty cable.

324

00:21:48,000 --> 00:21:54,000

That cable is fed through some pulleys and connected to a bungee cord, which is anchored to the roof.

325

00:21:56,000 --> 00:22:05,000

But before Adam could even put on a safety harness, there's a phone call and a twist worthy of Hitchcock himself.

326

00:22:05,000 --> 00:22:10,000

I'll let them know. Hold on. Adam, you will not be doing the job.

327

00:22:10,000 --> 00:22:19,000

Absolutely 100%. The insurance companies say that this is too hazardous a situation and you're out.

328

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

So, Tori looks like you're in.

329

00:22:24,000 --> 00:22:27,000

So, Tori will get to do the fall after all.

330

00:22:27,000 --> 00:22:32,000

And it looks like we might be about to witness a movie star-style tantrum.

331

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

Adam's Savage.

332

00:22:35,000 --> 00:22:38,000

That's so f*****g awesome.

333

00:22:40,000 --> 00:22:45,000

I really, really wanted to do this jump.

334

00:22:45,000 --> 00:22:48,720

How often do you get to play with stuntmen on the side of a building?

335

00:22:48,720 --> 00:22:51,720

I'm bummed that I don't get to do it.

336

00:22:51,720 --> 00:22:56,280

Like Buster, Tori will have three awnings between him and the ground.

337

00:22:56,280 --> 00:23:01,960

But in this case, each one will have had one important movie modification.

338

00:23:01,960 --> 00:23:07,600

We've cut an X in the middle of each awning and then taped it back together.

339

00:23:07,600 --> 00:23:12,200

Hopefully the tape is strong enough to hold the awnings together, but weak enough to give

340

00:23:12,200 --> 00:23:14,480

way when Tori goes flying through it.

341

00:23:14,480 --> 00:23:15,880

I'm a little bit nervous.

342

00:23:15,880 --> 00:23:17,960

I'm not going to lie, but I'm also really excited.

343

00:23:17,960 --> 00:23:20,480

But right now it's easy to say because we're still on the ground.

344

00:23:20,480 --> 00:23:23,800

Right, his heart is on.

345

00:23:23,800 --> 00:23:26,400

The protective gear's in place.

346

00:23:26,400 --> 00:23:30,520

Alright, the wind's definitely picking up.

347

00:23:30,520 --> 00:23:31,520

We've got to go.

348

00:23:31,520 --> 00:23:32,840

Let's get him up there.

349

00:23:32,840 --> 00:23:34,840

Let's do this.

350

00:23:35,120 --> 00:23:40,280

Tori rides the boom lift and is soon at the end of his tether.

351

00:23:40,280 --> 00:23:44,600

Now that I'm up here looking down, a little more nervous than before.

352

00:23:44,600 --> 00:23:49,640

But I feel like I'm in good hands, so this should go pretty smooth.

353

00:23:49,640 --> 00:23:53,120

It's nice that he has so much trust in these guys.

354

00:23:53,120 --> 00:23:56,120

They obviously know what they're doing.

355

00:23:56,120 --> 00:24:03,360

Adam's understudy dangles like a marionette, waiting for his cue.

356

00:24:03,360 --> 00:24:06,040

Its vital Tori hits the center of the awnings.

357

00:24:06,040 --> 00:24:11,480

A gust of wind could drive him off course and into danger.

358

00:24:11,480 --> 00:24:14,160

On my call, on fire, on fire.

359

00:24:14,160 --> 00:24:15,160

This is it.

360

00:24:15,160 --> 00:24:16,160

Here we go, here we go.

361

00:24:16,160 --> 00:24:17,160

Three, two, one, fire!

362

00:24:17,160 --> 00:24:18,160

Go!

363

00:24:18,160 --> 00:24:19,160

Three, two, one, fire!

364

00:24:19,160 --> 00:24:20,160

Go!

365

00:24:20,160 --> 00:24:21,160

Three, two, one, fire!

366

00:24:21,160 --> 00:24:22,160

Yeah!

367

00:24:22,160 --> 00:24:23,160

Yeah!

368

00:24:23,160 --> 00:24:24,160

Yeah!

369

00:24:24,160 --> 00:24:25,160

Yeah!

370

00:24:25,160 --> 00:24:26,160

Yeah!

371

00:24:26,160 --> 00:24:27,160

Yeah!

372

00:24:27,160 --> 00:24:28,160

Yeah!

373

00:24:28,160 --> 00:24:29,160

Yeah!

374

00:24:29,960 --> 00:24:32,000

It was the perfect stunt fall.

375

00:24:32,000 --> 00:24:36,160

The awnings split like paper, just as they did in Temple of Doom.

376

00:24:36,160 --> 00:24:42,160

Did you even feel the awnings?

377

00:24:42,160 --> 00:24:43,720

No, I just ripped right through.

378

00:24:43,720 --> 00:24:44,720

Really?

379

00:24:44,720 --> 00:24:45,720

It looked incredible.

380

00:24:45,720 --> 00:24:46,720

It just looked awesome.

381

00:24:46,720 --> 00:24:49,480

It happened so fast, it's like you don't even...

382

00:24:49,480 --> 00:24:51,320

Before you know it, you're already on the path.

383

00:24:51,320 --> 00:24:55,720

And our own Indiana Jones is on a bit of an adrenaline high.

384

00:24:55,720 --> 00:25:01,720

Alright, can we turn off the cameras and let me have a go?

385

00:25:01,720 --> 00:25:03,320

Sorry, Adam.

386

00:25:03,320 --> 00:25:07,480

This time, the Glory's all toys.

387

00:25:07,480 --> 00:25:09,400

Congratulations, that was amazing.

388

00:25:09,400 --> 00:25:10,400

You're a great stuntman.

389

00:25:10,400 --> 00:25:12,120

Oh my God, that was so much fun.

390

00:25:12,120 --> 00:25:17,240

I hope we do more of these Hollywood myths.

391

00:25:17,240 --> 00:25:18,240

Later.

392

00:25:18,240 --> 00:25:20,840

Grant's sword cutting robot takes a swing.

393

00:25:20,840 --> 00:25:24,440

Three, two, one.

394

00:25:24,440 --> 00:25:25,440

Oh!

395

00:25:25,440 --> 00:25:32,280

And up next, Adam and Jamie try to fly high on an ejector seat.

396

00:25:32,280 --> 00:25:47,640

This car will never be the same.

397

00:25:47,640 --> 00:25:48,960

Automobile ejection seats.

398

00:25:48,960 --> 00:25:51,680

Yep, they're staple and spy films.

399

00:25:51,680 --> 00:25:53,280

My favorite is James Bond.

400

00:25:53,280 --> 00:25:56,800

Actually, there's a really good one in Austin Powers' Gold Member.

401

00:25:56,800 --> 00:26:02,440

In the movie, our shaggedelic hero faces a showdown with a nasty chopper.

402

00:26:02,440 --> 00:26:09,040

At the last moment, Austin uses an ejector seat to get the jump on the trigger-happy pilot.

403

00:26:09,040 --> 00:26:14,440

As this model shows, James Bond's Aston Martin was equipped with a seat that sent the passenger

404

00:26:14,440 --> 00:26:16,120

through the roof.

405

00:26:17,120 --> 00:26:23,360

Can Adam and Jamie make this myth fly and build an ejector seat into a car?

406

00:26:23,360 --> 00:26:28,360

As crazy as they are, the guys aren't about to copy Austin Powers and eject themselves

407

00:26:28,360 --> 00:26:29,960

from a speeding vehicle.

408

00:26:29,960 --> 00:26:34,920

Instead, they're going to launch the passenger, and stealth will be the key.

409

00:26:34,920 --> 00:26:38,960

It can't look like there's an ejection seat built into the seat.

410

00:26:38,960 --> 00:26:40,840

It's got to be totally concealed.

411

00:26:40,840 --> 00:26:44,040

Someone has to be willing to get into that car of their own free will and not have any

412

00:26:44,040 --> 00:26:47,320

suspicious that they're going to end up face-planted on the tarmac.

413

00:26:47,320 --> 00:26:50,680

Well, first up, we need to get a car, and that sounds like something to get Jess on

414

00:26:50,680 --> 00:26:51,680

to.

415

00:26:51,680 --> 00:26:52,680

Perfect.

416

00:26:52,680 --> 00:26:54,480

It's got to be a car with the right flavor.

417

00:26:54,480 --> 00:26:55,800

Like a spy-mobile.

418

00:26:55,800 --> 00:26:56,800

That's it.

419

00:26:56,800 --> 00:26:57,800

Exactly.

420

00:26:57,800 --> 00:27:00,160

Now, movie spies drive sexy cars, right?

421

00:27:00,160 --> 00:27:03,880

But the Mythbusters aren't credit card gold members.

422

00:27:03,880 --> 00:27:10,720

So Mythturn Jess follows a couple of leads to this Studebaker boneyard.

423

00:27:10,720 --> 00:27:15,920

If the Mythbusters can't have a Jaguar or an Aston Martin, this Avanti might be the

424

00:27:15,920 --> 00:27:17,180

next best thing.

425

00:27:17,180 --> 00:27:19,720

It has a similar height and roofline.

426

00:27:19,720 --> 00:27:23,120

This is one pretty sweet ride.

427

00:27:23,120 --> 00:27:27,120

Just a little few cracks on the windshield and needs a little work.

428

00:27:27,120 --> 00:27:32,240

Like any good agent, Jess takes down some vital stats and snaps a few picks for the guys in

429

00:27:32,240 --> 00:27:35,760

intelligence to pour over.

430

00:27:35,760 --> 00:27:44,320

While she's doing that, Adam and Jamie are working out how to build their surprise seat.

431

00:27:44,320 --> 00:27:49,320

On an aircraft, ejection seats are powered by explosive cartridges, which shoot the pilot

432

00:27:49,320 --> 00:27:54,800

out of the plane at around 50 feet per second.

433

00:27:54,800 --> 00:27:59,960

But firing a rocket in a car could incinerate the driver, in this case, Adam.

434

00:27:59,960 --> 00:28:02,840

So they'll use compressed air.

435

00:28:02,840 --> 00:28:03,840

What's the plan?

436

00:28:03,840 --> 00:28:08,800

Well, we've got to build a big tank into the trunk first off and put a big dump valve on

437

00:28:08,800 --> 00:28:11,680

it so it can let go of all the air at once.

438

00:28:11,680 --> 00:28:15,160

That air will be channeled into five upright tubes.

439

00:28:15,160 --> 00:28:17,840

The seat itself will fit over those like a glove.

440

00:28:17,840 --> 00:28:26,520

And when the air is released, the force will hopefully blow the seat up and out of the car.

441

00:28:26,520 --> 00:28:31,920

Meanwhile, Adam's been studying Jess's photos of the Studebaker and he's got car trouble.

442

00:28:32,920 --> 00:28:36,840

Well, sports cars aren't working out too well for us.

443

00:28:36,840 --> 00:28:40,800

Almost by definition, they're streamlined and narrow in the roof area.

444

00:28:40,800 --> 00:28:45,120

The glass from the windows and the windshields goes over the top of the person's head.

445

00:28:45,120 --> 00:28:48,080

So it makes it difficult to shoot out through there.

446

00:28:48,080 --> 00:28:51,840

We probably want to just throw out the whole idea of the sporty, spot-mobile car and just

447

00:28:51,840 --> 00:28:56,520

go for anything that's got nice upright sides where that ejection seat will clear the roof.

448

00:28:56,520 --> 00:28:57,520

You bet.

449

00:28:58,520 --> 00:29:03,520

OK, that means sleek and aerodynamic is out and Boxy is in.

450

00:29:04,520 --> 00:29:10,520

Yesterday, I went and looked at this car and it looks like it might be something that we could use.

451

00:29:10,520 --> 00:29:11,520

It's kind of Boxy.

452

00:29:11,520 --> 00:29:12,520

Yeah, it's pretty Boxy.

453

00:29:12,520 --> 00:29:14,520

It looks like the best thing we're going to find.

454

00:29:14,520 --> 00:29:16,520

So, where do we see it?

455

00:29:16,520 --> 00:29:18,520

It's got side, it's here right now.

456

00:29:18,520 --> 00:29:19,520

Excellent!

457

00:29:21,520 --> 00:29:25,520

It wouldn't be Austin Powers' first choice, but Adam's impressed.

458

00:29:26,520 --> 00:29:28,520

This is one of my all-time favorite cars.

459

00:29:28,520 --> 00:29:29,520

Really?

460

00:29:29,520 --> 00:29:30,520

I always love this car.

461

00:29:31,520 --> 00:29:32,520

What do you think?

462

00:29:32,520 --> 00:29:37,520

I mean, Jamie, I'm looking and I see, you know, there's a driveshaft ridge in the middle there,

463

00:29:37,520 --> 00:29:40,520

but I think that passenger seat could scooch over this way a little bit.

464

00:29:40,520 --> 00:29:42,520

There's room in the trunk for the air tank.

465

00:29:42,520 --> 00:29:43,520

It's perfect.

466

00:29:44,520 --> 00:29:45,520

Sorry.

467

00:29:45,520 --> 00:29:46,520

Can we get it, Jamie?

468

00:29:46,520 --> 00:29:47,520

Can we get it, please?

469

00:29:47,520 --> 00:29:48,520

Can we get it?

470

00:29:48,520 --> 00:29:50,520

Well, sure.

471

00:29:50,520 --> 00:29:51,520

Excellent!

472

00:29:51,520 --> 00:29:54,520

It's time to get started working on this thing.

473

00:29:59,520 --> 00:30:01,520

Can a sword sever another sword?

474

00:30:01,520 --> 00:30:04,520

It's a scene that always makes the final cut.

475

00:30:05,520 --> 00:30:09,520

To test this movie myth, Grant's built a blade-wielding robot.

476

00:30:09,520 --> 00:30:12,520

We go in three, two, one.

477

00:30:14,520 --> 00:30:18,520

Which strikes with the same speed and power as a real samurai.

478

00:30:21,520 --> 00:30:25,520

Question is, is that fast and powerful enough to slice a sword?

479

00:30:26,520 --> 00:30:32,520

We're going to do a series of tests starting with edge to flat.

480

00:30:32,520 --> 00:30:37,520

First, they'll see what a real Japanese sword can do to its stainless steel counterpart.

481

00:30:37,520 --> 00:30:41,520

The swords are positioned so they connect at the correct point.

482

00:30:43,520 --> 00:30:46,520

A blade doesn't have the same cutting force along its entire length.

483

00:30:46,520 --> 00:30:50,520

Closer to the hilt, you have greater weight but less speed.

484

00:30:50,520 --> 00:30:54,520

At the tip, you have maximum speed but minimum weight.

485

00:30:55,520 --> 00:30:58,520

A third of the way down the blade is the percussion point.

486

00:30:58,520 --> 00:31:01,520

The perfect balance between weight and speed.

487

00:31:03,520 --> 00:31:08,520

Alright, so this is a battle-ready katana versus a stainless steel katana.

488

00:31:08,520 --> 00:31:09,520

Here we go.

489

00:31:09,520 --> 00:31:11,520

In three, two, one.

490

00:31:16,520 --> 00:31:19,520

I did not expect that.

491

00:31:20,520 --> 00:31:21,520

At all.

492

00:31:21,520 --> 00:31:24,520

The genuine blade made short work of the showpiece.

493

00:31:25,520 --> 00:31:27,520

I love it when you don't expect the results.

494

00:31:27,520 --> 00:31:30,520

It just nicked the tip, the very edge.

495

00:31:30,520 --> 00:31:31,520

It nicked it.

496

00:31:31,520 --> 00:31:32,520

You know.

497

00:31:32,520 --> 00:31:33,520

That's sick.

498

00:31:33,520 --> 00:31:35,520

I think we all know what's next.

499

00:31:36,520 --> 00:31:37,520

Real sword, real sword?

500

00:31:37,520 --> 00:31:38,520

Yeah.

501

00:31:39,520 --> 00:31:40,520

I think so.

502

00:31:41,520 --> 00:31:43,520

This will be a much sterner test.

503

00:31:43,520 --> 00:31:47,520

Two genuine Japanese swords cast from tough and steel.

504

00:31:49,520 --> 00:31:52,520

Okay, here we go in three, two, one.

505

00:31:55,520 --> 00:31:57,520

Yeah, that's right.

506

00:31:59,520 --> 00:32:03,520

The edge of the swinging sword smote the flat side of the target blade.

507

00:32:03,520 --> 00:32:04,520

Nicked it?

508

00:32:04,520 --> 00:32:07,520

How about the target, how are they cutting blade?

509

00:32:07,520 --> 00:32:09,520

The cutting blade, just the edges is chipped.

510

00:32:09,520 --> 00:32:11,520

Doled the heck out of it.

511

00:32:11,520 --> 00:32:13,520

But no cut.

512

00:32:13,520 --> 00:32:17,520

This is a totally definitive test for the edge to flat.

513

00:32:17,520 --> 00:32:19,520

I mean, there's no questions in my mind about that.

514

00:32:19,520 --> 00:32:21,520

But I know our viewers are going to say,

515

00:32:21,520 --> 00:32:24,520

well, what about edge to edge?

516

00:32:25,520 --> 00:32:27,520

The swords are repositioned.

517

00:32:29,520 --> 00:32:33,520

You know, in real life, you never block an edge with your edge.

518

00:32:33,520 --> 00:32:35,520

Right, because you don't want to ruin your sword.

519

00:32:35,520 --> 00:32:36,520

You don't want to ruin your sword.

520

00:32:36,520 --> 00:32:38,520

But here at Mythbusters, we like ruining swords.

521

00:32:38,520 --> 00:32:40,520

All day long.

522

00:32:41,520 --> 00:32:44,520

Striking edge on edge means the maximum amount of force

523

00:32:44,520 --> 00:32:48,520

will be concentrated on the smallest possible surface area.

524

00:32:49,520 --> 00:32:50,520

All right, here we go.

525

00:32:50,520 --> 00:32:53,520

In three, two, one.

526

00:32:58,520 --> 00:32:59,520

Did you see that spark?

527

00:32:59,520 --> 00:33:01,520

Yes, I did.

528

00:33:01,520 --> 00:33:05,520

Watch this, we struck our second plausible movie myth.

529

00:33:06,520 --> 00:33:09,520

Well, no, the high speed shows the attack blade

530

00:33:09,520 --> 00:33:11,520

didn't cut through at the point of contact.

531

00:33:11,520 --> 00:33:15,520

Instead, the sword snapped further down towards the hilt.

532

00:33:16,520 --> 00:33:22,520

So, for us to call this confirmed, it would have to cut through here.

533

00:33:22,520 --> 00:33:23,520

Yeah, it would have to be a straight cut.

534

00:33:23,520 --> 00:33:26,520

Right where the hitting blade hit the target blade.

535

00:33:26,520 --> 00:33:29,520

Yeah, down here, that's just a stress fracture.

536

00:33:29,520 --> 00:33:32,520

So, to test this myth, we've used good quality swords.

537

00:33:32,520 --> 00:33:38,520

We've tested them edge to flat and edge to edge.

538

00:33:38,520 --> 00:33:40,520

In each case, it's busted.

539

00:33:40,520 --> 00:33:42,520

But hold on, Grant.

540

00:33:42,520 --> 00:33:44,520

Samurai's aren't the only ones with swords.

541

00:33:45,520 --> 00:33:49,520

Soon we'll see if other blades can carve a niche for themselves

542

00:33:49,520 --> 00:33:51,520

and make this movie myth a reality.

543

00:33:52,520 --> 00:33:56,520

Still ahead, Adam and Jamie get to the seat of the problem.

544

00:33:56,520 --> 00:33:59,520

The ejector seat myth takes off.

545

00:34:05,520 --> 00:34:06,520

Ejector seats.

546

00:34:06,520 --> 00:34:09,520

In aviation, they're a form of salvation.

547

00:34:11,520 --> 00:34:14,520

Car ejector seats are a staple of spy films,

548

00:34:14,520 --> 00:34:17,520

but do they only work in the movies?

549

00:34:17,520 --> 00:34:20,520

Adam and Jamie are about to find out.

550

00:34:21,520 --> 00:34:25,520

They're going to fit this innocent looking vehicle with a bonus feature.

551

00:34:25,520 --> 00:34:30,520

The passenger will in fact be sitting on a secret, air powered ejector seat.

552

00:34:30,520 --> 00:34:34,520

We need to clear a space between the trunk and the passenger compartment.

553

00:34:34,520 --> 00:34:39,520

The trunk being where the tank or the air supply is going to be for this device.

554

00:34:40,520 --> 00:34:46,520

And then we need to route tubing forward from that tank to the back and underside of the seat.

555

00:34:46,520 --> 00:34:50,520

And we also need to create a trap door in the top of the car.

556

00:34:51,520 --> 00:34:52,520

Adam's in his element.

557

00:34:54,520 --> 00:34:55,520

Check this out.

558

00:34:56,520 --> 00:34:58,520

This is engineering.

559

00:34:59,520 --> 00:35:01,520

Is that totally cool or what?

560

00:35:02,520 --> 00:35:05,520

The tubes that will make up the air cannon and the seat

561

00:35:05,520 --> 00:35:09,520

have been machined precise to ten thousandths of an inch.

562

00:35:09,520 --> 00:35:10,520

Adam.

563

00:35:14,520 --> 00:35:15,520

Wow.

564

00:35:17,520 --> 00:35:19,520

We've done made our own pneumatic cylinder.

565

00:35:19,520 --> 00:35:25,520

While Jamie builds the air cannon, Adam starts work on the ejector seat itself.

566

00:35:31,520 --> 00:35:35,520

Piloting his trusty sewing machine, he runs up a new seat covering,

567

00:35:35,520 --> 00:35:38,520

which will help hide the awful truth.

568

00:35:40,520 --> 00:35:43,520

Well, it's a seat and I don't see any excess hardware on it.

569

00:35:43,520 --> 00:35:44,520

That's the key.

570

00:35:44,520 --> 00:35:46,520

So, maybe...

571

00:35:46,520 --> 00:35:48,520

We are not upholsters.

572

00:35:48,520 --> 00:35:53,520

Maybe a little weird looking, but you know what it is and I don't see any pistons.

573

00:35:53,520 --> 00:35:57,520

Before lawn, the car is starting to resemble something from a bond film.

574

00:35:58,520 --> 00:36:00,520

Adam takes the role of Q.

575

00:36:01,520 --> 00:36:03,520

I'm really pleased with how simple this is.

576

00:36:03,520 --> 00:36:07,520

These are just plumbing pipes representing our main dump tank.

577

00:36:07,520 --> 00:36:13,520

That tank dumps through the back trunk, down through these pipes to these fast acting,

578

00:36:13,520 --> 00:36:15,520

really large capacity valves.

579

00:36:15,520 --> 00:36:22,520

A pair of them that dump into this manifold through these upright pipes and into our chair.

580

00:36:23,520 --> 00:36:29,520

We're going to cut away part of the roof here and that chair is going to clear this car really, really fast.

581

00:36:30,520 --> 00:36:33,520

The rig should generate twenty six hundred pounds of lift.

582

00:36:33,520 --> 00:36:37,520

The passenger and seat together won't be more than two hundred sixty pounds.

583

00:36:38,520 --> 00:36:41,520

That's a lift ratio of ten to one.

584

00:36:45,520 --> 00:36:49,520

But that chair ain't going nowhere without a hole in the roof.

585

00:36:50,520 --> 00:36:54,520

I now need to be able to put that panel I cut out back in,

586

00:36:55,520 --> 00:37:00,520

so that one might be unsuspecting that it was ever there.

587

00:37:01,520 --> 00:37:03,520

That'll do.

588

00:37:04,520 --> 00:37:08,520

To make sure the seat makes a smooth exit, Jamie lubes the tubes.

589

00:37:10,520 --> 00:37:12,520

The seat itself is installed.

590

00:37:12,520 --> 00:37:15,520

The cylinder is sliding like a glove over the air can.

591

00:37:17,520 --> 00:37:20,520

And finally for some added movie mojo,

592

00:37:23,520 --> 00:37:28,520

a secret switch, conningly disguised as a gear stick, is the ignition switch.

593

00:37:29,520 --> 00:37:32,520

That's what launches it when you're sitting in the car.

594

00:37:33,520 --> 00:37:36,520

I'm ready to drive this thing out to the dirt lot and do a pressure test on it.

595

00:37:37,520 --> 00:37:42,520

Let's do a little quick test, incremental test here first, just before we get out.

596

00:37:42,520 --> 00:37:44,520

Just like five ten psi and see what it...

597

00:37:45,520 --> 00:37:50,520

With the rig capable of generating a hundred thirty psi, ten is nothing.

598

00:37:51,520 --> 00:37:52,520

Okay, that's about ten psi.

599

00:37:52,520 --> 00:37:53,520

Is that what the gate says?

600

00:37:53,520 --> 00:37:54,520

Yeah.

601

00:37:54,520 --> 00:37:55,520

Cool. That was fast.

602

00:37:55,520 --> 00:37:57,520

Jamie flips the switch.

603

00:37:59,520 --> 00:38:05,520

610

00:38:43,960 --> 00:38:49,200

On the big screen, when buckles need to be swashed, someone always ends up drawing the

611

00:38:49,200 --> 00:38:52,640

short sword.

612

00:38:52,640 --> 00:39:00,480

But although the workshop has been ringing with the clashing of steel, Grant's robot

613

00:39:00,480 --> 00:39:04,400

hasn't been able to cleave a single samurai blade.

614

00:39:04,400 --> 00:39:09,400

We want to be really thorough with this myth. We don't want to just limit it to Eastern mythology.

615

00:39:09,400 --> 00:39:14,520

So we've collected a whole bunch of swords from... oh my god this is heavy. We've gotten

616

00:39:14,520 --> 00:39:20,480

ourselves a Viking sword. We have a Scottish claymore, which I don't even think I can

617

00:39:21,480 --> 00:39:27,880

And finally we have a European rapier, which I think is my favorite because this is the

618

00:39:27,880 --> 00:39:30,080

only one I can lift.

619

00:39:30,080 --> 00:39:35,360

Like the Japanese swords, these blades are modern replicas, crafted from high-carbon

620

00:39:35,360 --> 00:39:37,360

steel.

621

00:39:37,360 --> 00:39:42,400

Round one, let's see what would have happened had the three musketeers and some samurai's

622

00:39:42,400 --> 00:39:45,760

crossed swords.

623

00:39:45,760 --> 00:39:48,800

They're two different fighting styles. You have the Japanese sword, which is used for

624

00:39:48,800 --> 00:39:53,160

cutting. The European, the rapier was used for stabbing.

625

00:39:53,160 --> 00:39:55,920

The simulated samurai takes a swing.

626

00:39:55,920 --> 00:40:00,920

Here we go. In three, two, one.

627

00:40:00,920 --> 00:40:02,920

Yeah!

628

00:40:02,920 --> 00:40:03,920

Whoa!

629

00:40:03,920 --> 00:40:04,920

Nice!

630

00:40:04,920 --> 00:40:10,520

I hope D'Artagnan ducked because his sword was sliced.

631

00:40:10,520 --> 00:40:12,040

I think we need to see the high speed.

632

00:40:12,040 --> 00:40:13,040

Yeah.

633

00:40:13,040 --> 00:40:14,040

Or was it?

634

00:40:14,800 --> 00:40:21,040

It bent as if it were rubber, came back and on the backlash, right here went poof and

635

00:40:21,040 --> 00:40:26,640

snapped. At first I was so impressed. I thought we might have had a slice, but comes down

636

00:40:26,640 --> 00:40:28,640

to it we had another snap.

637

00:40:28,640 --> 00:40:31,640

And that doesn't count.

638

00:40:33,140 --> 00:40:38,720

Next up, could Braveheart's blade sever a samurai's sword?

639

00:40:38,720 --> 00:40:44,920

The Scottish weapon is almost four times heavier than the target blade and twice as long.

640

00:40:44,920 --> 00:40:50,520

Claymore is a really long blade and it's got a lot of mass behind it that usually equals

641

00:40:50,520 --> 00:40:51,920

a lot of cutting force.

642

00:40:51,920 --> 00:40:56,920

Claymore versus Katana in three, two, one.

643

00:40:56,920 --> 00:40:58,920

Whoa!

644

00:40:58,920 --> 00:41:01,920

Come on.

645

00:41:01,920 --> 00:41:05,920

If anything was going to do it, it would have been that.

646

00:41:06,120 --> 00:41:10,720

Well, then the Claymore versus the Katana round, it definitely bent the hell out of the Katana

647

00:41:10,720 --> 00:41:16,520

and knocked it over. It was very dramatic. Didn't break it, didn't snap it, didn't cut

648

00:41:16,520 --> 00:41:17,520

it.

649

00:41:17,520 --> 00:41:20,520

There's just one round left.

650

00:41:20,520 --> 00:41:26,120

We're going to take our two biggest swords, which is going to be our Viking sword and

651

00:41:26,120 --> 00:41:29,120

our Claymore. Total annihilation.

652

00:41:29,120 --> 00:41:34,120

Here we go. Three, two, one.

653

00:41:36,120 --> 00:41:42,120

Despite being twice as heavy, the Claymore seems to have come off second best.

654

00:41:43,120 --> 00:41:48,120

The Claymore is definitely in worse shape than the Viking sword.

655

00:41:48,120 --> 00:41:51,120

Look, it's, the metal's pushed out of the way.

656

00:41:51,120 --> 00:41:53,120

Yeah, and the whole sword is bent down.

657

00:41:53,120 --> 00:41:59,120

Tori, you've got a whole table of bent swords, but where does that leave this movie myth?

658

00:42:03,120 --> 00:42:05,120

So, how'd you guys go?

659

00:42:05,320 --> 00:42:10,320

Well, our sword swinging robot was able to match the speed and the cutting depth of a

660

00:42:10,320 --> 00:42:11,320

real swordsman.

661

00:42:11,320 --> 00:42:14,320

The cool thing was it wasn't actually just brute force, it was also slicing.

662

00:42:14,320 --> 00:42:17,320

Okay, so what did you come up with?

663

00:42:17,320 --> 00:42:21,320

So there's absolutely no way a sword can cut through another sword. We get to lay this

664

00:42:21,320 --> 00:42:24,320

one to rest, bust it.

665

00:42:27,320 --> 00:42:33,320

Coming up on this mega movie myth special is a bullet the key to a locked door.

666

00:42:35,320 --> 00:42:40,320

And more car capers when Adam and Jamie take on a big screen special.

667

00:42:40,320 --> 00:42:42,320

We're gonna jump the hump.

668

00:42:42,320 --> 00:42:47,320

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

669

00:42:53,320 --> 00:42:57,320

Car ejector seats are a blast on the big screen.

670

00:42:59,320 --> 00:43:04,320

Adam and Jamie are trying to install a secret ejector seat in the passenger side of this

671

00:43:04,520 --> 00:43:09,520

car. And last time we saw their air chair, it had disappeared out of the workshop.

672

00:43:16,520 --> 00:43:22,520

Things rarely work so well, especially first time, a fact that has Jamie's tash at twitching.

673

00:43:23,520 --> 00:43:28,520

Well, the first run went well enough that I'm suspicious. It's a little too easy.

674

00:43:28,520 --> 00:43:32,520

I mean, I just kind of like went like a little frog right out of the back of the car.

675

00:43:32,720 --> 00:43:39,720

That's what I wanted. But I guess the next test is what I'm really worried about because

676

00:43:40,320 --> 00:43:44,820

that was the easy part. Once we start to put load on the front of this and it starts to

677

00:43:44,820 --> 00:43:50,720

torque over the whole thing, that's where this is all headed. And if that doesn't work,

678

00:43:50,720 --> 00:43:52,720

then I don't know what I'm going to do.

679

00:43:52,720 --> 00:43:57,720

Next, a 70% scale test. They load 120 pounds on the seat.

680

00:43:57,920 --> 00:44:02,920

Looks like it's topping out at about 90.

681

00:44:02,920 --> 00:44:09,920

And charge the tank to 90 psi. This time it might be a good idea to adjourn to the vacant

682

00:44:11,920 --> 00:44:12,920

lot next door.

683

00:44:12,920 --> 00:44:15,920

Three, two, one.

684

00:44:15,920 --> 00:44:18,920

Food!

685

00:44:18,920 --> 00:44:22,920

Like clockwork.

686

00:44:23,120 --> 00:44:25,120

That was fantastic!

687

00:44:25,120 --> 00:44:29,120

Having 120 pounds on the seat didn't dampen the rig's lifting power.

688

00:44:29,120 --> 00:44:32,120

It's almost like we knew what we were doing, isn't it?

689

00:44:32,120 --> 00:44:36,120

And the load easily cleared the hole in the car without touching anything, without bumping

690

00:44:36,120 --> 00:44:41,120

or rubbing or bending or straining or snapping. It couldn't have gone better.

691

00:44:41,120 --> 00:44:45,120

It's totally time to take this full scale. I almost want to ride it.

692

00:44:45,120 --> 00:44:47,120

There goes one happy Hunman.

693

00:44:47,120 --> 00:44:52,620

Now, this is a top secret spy car, right? People shouldn't guess that they're sitting

694

00:44:52,820 --> 00:44:58,320

in an ejector seat. The rig's plumbing is easily disguised, but the seat itself might

695

00:44:58,320 --> 00:45:03,320

raise eyebrows and everything else.

696

00:45:03,320 --> 00:45:06,320

You're right.

697

00:45:06,320 --> 00:45:08,320

It is a little high, isn't it?

698

00:45:08,320 --> 00:45:10,320

It's a tad high.

699

00:45:10,320 --> 00:45:15,320

Still, Adam's confident it will pass the undetectability test.

700

00:45:15,320 --> 00:45:21,320

There's nothing that screams that the passenger seat is going to leave this vehicle. You

701

00:45:22,020 --> 00:45:29,020

might get into it and think, oh, Adam's weekend work on this car is a little bit substandard,

702

00:45:29,020 --> 00:45:34,020

but you wouldn't think Adam's about to leave me on the side of the freeway.

703

00:45:34,020 --> 00:45:38,020

Let's test that theory, shall we, Adam?

704

00:45:38,020 --> 00:45:41,620

Bob is our regular tow truck operator. He's always helping us get vehicles out to the

705

00:45:41,620 --> 00:45:45,620

locations where we do bad things to them. And right now, I think James is going to try

706

00:45:45,620 --> 00:45:52,620

and get him to sit in our ejection seat and see if he can't determine that it's undetectable.

707

00:45:53,320 --> 00:45:56,320

Take a seat, Bob.

708

00:45:56,320 --> 00:45:58,320

It's an ejection seat.

709

00:45:58,320 --> 00:46:00,320

Why would you say that?

710

00:46:00,320 --> 00:46:03,320

The roof cut away from the top here. Give me a little hint.

711

00:46:03,320 --> 00:46:09,320

Hey, Bob, see that little thing there? Now, push that button.

712

00:46:09,320 --> 00:46:12,320

I think I'd rather not.

713

00:46:13,020 --> 00:46:18,020

Oh, well, let's face it. If he's worked with the MythBusters before, he's going to suspect

714

00:46:18,020 --> 00:46:23,020

something, isn't he? Out at the test track, they try again.

715

00:46:23,020 --> 00:46:27,020

If you'll sit in the passenger seat, I want to show you a couple things about it.

716

00:46:27,020 --> 00:46:32,020

Don tells one of Jamie's interns. Will she realize she's sitting in the hot seat?

717

00:46:32,020 --> 00:46:37,020

So does nothing strike you as totally bizarre about this car?

718

00:46:37,020 --> 00:46:40,020

It looks like it kind of suits Don Tell, actually.

719

00:46:40,720 --> 00:46:43,720

Is it too small or something? I don't know.

720

00:46:43,720 --> 00:46:48,720

No, no. We wanted to see if we could dress this car in such a way as a person would unsuspectingly

721

00:46:48,720 --> 00:46:53,220

sit in the seat and it wouldn't wreck that the car was fitted with an ejection seat that

722

00:46:53,220 --> 00:46:55,220

you are currently sitting in.

723

00:46:55,220 --> 00:46:57,220

Oh, yay, oh no.

724

00:46:57,220 --> 00:47:01,220

Don Tell suspected nothing, so that's even the score.

725

00:47:01,220 --> 00:47:03,220

Anything stick out to you?

726

00:47:03,220 --> 00:47:09,220

The gear shift is weird. What is that? What is that? What's this push button on a Mac?

727

00:47:09,220 --> 00:47:12,220

Don here smells a rat, but he hasn't picked it.

728

00:47:17,220 --> 00:47:20,220

What was going here? What's this?

729

00:47:20,220 --> 00:47:22,220

Well, that gets out of the way.

730

00:47:22,220 --> 00:47:26,220

Oh, James Bond! Yeah, exactly.

731

00:47:26,220 --> 00:47:32,220

Well, two out of three ain't bad. Now with Buster still in bits after the awning fall myth,

732

00:47:32,220 --> 00:47:35,220

they've called on one of his buddies to make a guest appearance.

733

00:47:35,220 --> 00:47:40,220

But there might be a small problem. Well, in fact, a large problem, actually.

734

00:47:40,220 --> 00:47:45,220

What are we doing with the tallest dummy in the biz in the whole place?

735

00:47:45,220 --> 00:47:50,220

Clearly this isn't going to work. Just as well, he brought the whole family.

736

00:47:50,220 --> 00:47:55,220

We've got a, he's got a wife and he's got a kid and well, we're going to try that.

737

00:47:55,220 --> 00:47:59,220

Adam manhandles Buster's buddies better half into the car.

738

00:47:59,220 --> 00:48:01,220

She's light.

739

00:48:01,220 --> 00:48:03,220

Who said chivalry was dead?

740

00:48:06,220 --> 00:48:09,220

There we go.

741

00:48:09,220 --> 00:48:13,220

We are almost ready to go. We've got a dummy that fits in the passenger seat this time.

742

00:48:13,220 --> 00:48:16,220

We've taped the roof above her head. We've got the safety shield in.

743

00:48:16,220 --> 00:48:18,220

We've got the electric system working.

744

00:48:18,220 --> 00:48:24,220

All that's left is to, oh, to charge the tank and wait for camera to tell us to roll.

745

00:48:28,220 --> 00:48:31,220

We are fully charged. It's 130 psi.

746

00:48:31,220 --> 00:48:39,220

That air pressure will generate 2,600 pounds of lift 10 times the weight of the seat and its unfortunate passenger.

747

00:48:41,220 --> 00:48:45,220

We know the chair works, but it's never had anybody on board.

748

00:48:45,220 --> 00:48:52,220

The one thing that'll stop this dummy making a smooth exit will be flailing limbs on lift off.

749

00:48:55,220 --> 00:48:57,220

Drive safely.

750

00:48:57,220 --> 00:49:01,220

I will. I'm going to wait for your signal to go.

751

00:49:01,220 --> 00:49:02,220

Okay.

752

00:49:02,220 --> 00:49:08,220

It's the moment of truth. Will the ejector seat launch our passenger into the air like Austin?

753

00:49:09,220 --> 00:49:14,220

In our scenario, Adam and his date are heading out for a night on the town.

754

00:49:17,220 --> 00:49:20,220

What's that? You want me to pay for dinner and a movie?

755

00:49:28,220 --> 00:49:33,220

Wow. That was awesome.

756

00:49:33,220 --> 00:49:37,220

It was an incredible noise. It took like, wow.

757

00:49:44,220 --> 00:49:48,220

Who needs Austin powers when you've got air power?

758

00:49:49,220 --> 00:49:52,220

Oh, God. I really want to ride that thing.

759

00:49:53,220 --> 00:49:55,220

I mean, I just pulled the button and then I heard.

760

00:49:57,220 --> 00:50:01,220

Like this. I mean, it was like a full second after I pushed it.

761

00:50:02,220 --> 00:50:07,220

The high speed camera caught every frame of our passengers airborne exit.

762

00:50:08,220 --> 00:50:11,220

That might be my favorite high speed shot.

763

00:50:11,220 --> 00:50:12,220

You've ever done it?

764

00:50:12,220 --> 00:50:13,220

I think so.

765

00:50:15,220 --> 00:50:19,220

Well, it definitely worked. It's a little silly.

766

00:50:19,220 --> 00:50:24,220

I mean, they're probably simpler and more reliable ways of getting rid of somebody if you wanted to.

767

00:50:24,220 --> 00:50:28,220

I don't know. Well, definitely nothing as classy as this.

768

00:50:28,220 --> 00:50:31,220

Not at all. This is plausible and a damn good day's work.

769

00:50:31,220 --> 00:50:32,220

All right.

770

00:50:37,220 --> 00:50:43,220

After the break, Tori goes ballistic to try and bust a Hollywood floor show.

771

00:50:45,220 --> 00:50:49,220

And her own Bo and Luke tackle an automotive movie myth.

772

00:50:55,220 --> 00:51:03,220

In this mega movie myth special, the mythbusters are applying the scientific blowtorch to some of Hollywood's greatest hits.

773

00:51:07,220 --> 00:51:09,220

No, intermission. Where are we so far?

774

00:51:10,220 --> 00:51:12,220

Cutting a sword with a sword is busted.

775

00:51:12,220 --> 00:51:13,220

Ha!

776

00:51:19,220 --> 00:51:20,220

Oh!

777

00:51:22,220 --> 00:51:23,220

Haunting fall plausible.

778

00:51:29,220 --> 00:51:31,220

All right. Check some seat is plausible.

779

00:51:36,220 --> 00:51:38,220

Check it out. Look, it's coming up. Shooting locks off.

780

00:51:43,220 --> 00:51:44,220

Ballistic breakout.

781

00:51:48,220 --> 00:51:50,220

And jumping a gorge with a car.

782

00:51:53,220 --> 00:51:58,220

For the next movie myth, Tori, Carrie and Grant will have to really aim up.

783

00:51:59,220 --> 00:52:00,220

What you got for us, Jamie?

784

00:52:00,220 --> 00:52:07,220

Well, this is a classic myth and it involves a guy that's trying to get through a door to doors

locked.

785

00:52:07,220 --> 00:52:12,220

So he pulls out a handgun and shoots the lock and presto, he's inside.

786

00:52:14,220 --> 00:52:19,220

Jamie's right. Come crunch time in the movies, poppin locks is a popular plot device.

787

00:52:22,220 --> 00:52:27,220

Kurt Russell might be in big trouble in little China, but he knows freedom is just a shot away.

788

00:52:28,220 --> 00:52:32,220

On the big screen, a heavy padlock cannot withstand hot leg.

789

00:52:32,220 --> 00:52:38,220

So I guess we get a bunch of locks and some solid wood doors.

790

00:52:39,220 --> 00:52:41,220

Then we get to open up the myth buster arsenal.

791

00:52:42,220 --> 00:52:45,220

Yeah, well, it looks like you guys have it well in hand, so have fun with it, huh?

792

00:52:46,220 --> 00:52:50,220

Grant's off to pick some locks. Well, choose some locks. You know what I mean.

793

00:52:52,220 --> 00:52:54,220

He puts the lock myth to the locksmith.

794

00:52:55,220 --> 00:53:00,220

In action movies a lot, what they do is they take a guy and they're like, I gotta get in. I gotta get into this room.

795

00:53:01,220 --> 00:53:05,220

And they shoot the lock and it goes boom and then they kick the door down.

796

00:53:06,220 --> 00:53:12,220

I mean, have you, you know, heard of this myth? This is something that happens in the real world or is this just in the movies?

797

00:53:13,220 --> 00:53:16,220

The quality of the lock makes all a big difference. The caliber makes a big difference.

798

00:53:17,220 --> 00:53:21,220

You shoot it with a 9mm, it's not going to have the effect of a 45mm. You shoot it with a 357mm.

799

00:53:22,220 --> 00:53:24,220

It's going to have a lot more impact. It's going to do more damage.

800

00:53:25,220 --> 00:53:26,220

A wood door actually might pop open.

801

00:53:26,220 --> 00:53:30,220

Grant walks out with more locks than you'd find at a hairdresser's convention.

802

00:53:32,220 --> 00:53:35,220

Meanwhile, Tari's window shopping for doors.

803

00:53:36,220 --> 00:53:43,220

Sounds solid, but look, it's got the handle in it already. We already have a lock in here. We're

halfway there.

804

00:53:48,220 --> 00:53:50,220

Back at HQ, Tari builds a mount for each door.

805

00:53:52,220 --> 00:53:54,220

Anybody want to talk to me? I'll be in my office.

806

00:53:57,220 --> 00:54:00,220

At Fitzgrants padlocks and dead bolts.

807

00:54:02,220 --> 00:54:03,220

Call me paranoid.

808

00:54:04,220 --> 00:54:10,220

We've seen a setup like this before. In our last Hollywood special, Adam and Jamie tried a little breaking and entering.

809

00:54:12,220 --> 00:54:15,220

Jamie did the entering and Adam did the breaking.

810

00:54:15,220 --> 00:54:22,220

So all the doors are done. This one right here is a solid core wood door. We have five of these kind of cheaper dead bolt locks.

811

00:54:23,220 --> 00:54:27,220

And then we have a really nice sturdy heavy duty dead bolt lock. We're going to try to shoot those out.

812

00:54:28,220 --> 00:54:33,220

I have another solid wood door with cheaper hasps, cheaper locks. This is probably going to be our best bet is shooting these guys off.

813

00:54:34,220 --> 00:54:35,220

It'll be the easiest.

814

00:54:35,220 --> 00:54:39,220

Now in the movies, they always blast locks from close range.

815

00:54:42,220 --> 00:54:47,220

Our gunslingers will have to do the same, but to guard against flying shrapnel, they'll have some protection.

816

00:54:49,220 --> 00:54:53,220

What I have here is a piece of the bullet proof.

817

00:54:54,220 --> 00:54:55,220

I have a piece of the bullet proof.

818

00:54:56,220 --> 00:54:57,220

I have a piece of the bullet proof.

819

00:54:58,220 --> 00:54:59,220

I have a piece of the bullet proof.

820

00:55:00,220 --> 00:55:05,220

What I have here is a piece of the bullet proof glass.

821

00:55:06,220 --> 00:55:09,220

I've cut a hole in it so we can stick the barrel through the hole.

822

00:55:10,220 --> 00:55:14,220

And then this will adjust up and down this track so we can raise it to each of our locks.

823

00:55:15,220 --> 00:55:20,220

Soon we'll see if this movie myth is bang on target or shot down in flames.

824

00:55:29,220 --> 00:55:32,220

You're the hero of the movie. The cops are chasing you, the bad guys are chasing you.

825

00:55:33,220 --> 00:55:42,220

You've got to get to safety. You hit some big dirt mound and fly your car to safety, landing far away from the bad guys, driving away to safety.

826

00:55:43,220 --> 00:55:46,220

I sense more car destruction in our future.

827

00:55:49,220 --> 00:55:55,220

In the movie remake of the TV classic The Dukes of Hazard, Beau and Luke are on the run from a man with a gun.

828

00:55:55,220 --> 00:56:01,220

The bridge may be out, but that's no problem when you've got a pile of dirt for a launching pad.

829

00:56:02,220 --> 00:56:08,220

The general not only makes the jump, it lands safely and those good old boys are freedom bound.

830

00:56:09,220 --> 00:56:10,220

How are we going to do this?

831

00:56:11,220 --> 00:56:13,220

Well, it's a classic movie jump myth.

832

00:56:14,220 --> 00:56:20,220

I think it's just another case of making a really big remote control car toy and sending it on a really big jump.

833

00:56:20,220 --> 00:56:27,220

Well, isn't it going to be a little more complicated than that? I mean, we have to actually match something like The Dukes of Hazard, right?

834

00:56:28,220 --> 00:56:37,220

Sure. I will take a look at the movie and calculate exactly how far the general Lee is supposed to

have traveled and the scene we want to replicate and we'll go from there.

835

00:56:38,220 --> 00:56:42,220

Okay, well, I'll start in on the car. I think this is number five for me with the radio control.

836

00:56:43,220 --> 00:56:46,220

As we know, Jamie's the king of remote control.

837

00:56:47,220 --> 00:56:50,220

I've radio controlled a police car.

838

00:56:56,220 --> 00:56:59,220

I've radio controlled a car for car full vault.

839

00:57:04,220 --> 00:57:09,220

I've radio controlled a car to try and blow it over with a jet airplane.

840

00:57:09,220 --> 00:57:11,220

And what was the other one?

841

00:57:12,220 --> 00:57:14,220

The other one was the Jato rocket car.

842

00:57:17,220 --> 00:57:21,220

No wonder he's struggling to remember. That was way back in the very first episode.

843

00:57:23,220 --> 00:57:26,220

That was hysterical. That was absolutely outrageous.

844

00:57:27,220 --> 00:57:30,220

But this RC setup will be his most complex.

845

00:57:31,220 --> 00:57:33,220

The car will have to be a little more complicated.

846

00:57:33,220 --> 00:57:36,220

So Jamie will need to control acceleration and steering.

847

00:57:37,220 --> 00:57:39,220

I've gotten radio controls on the throttle.

848

00:57:42,220 --> 00:57:44,220

I never get tired of that part.

849

00:57:45,220 --> 00:57:46,220

I've got it on the shifter.

850

00:57:48,220 --> 00:57:52,220

I've got it on the brakes and the tricky one is I've got it on steering.

851

00:57:53,220 --> 00:57:56,220

And if he hopes to hit a ramp it's going to be a little more difficult.

852

00:57:56,220 --> 00:58:00,220

When it comes down to the moment of truth, this control right here is where it's at.

853

00:58:01,220 --> 00:58:06,220

If I don't have this totally buttoned down, this car is going to get airborne some place that I don't want it to be.

854

00:58:08,220 --> 00:58:11,220

But can he make it fly as far as the general lead?

855

00:58:12,220 --> 00:58:14,220

And even if he does, will it be able to keep on rolling?

856

00:58:15,220 --> 00:58:17,220

I've got it on the brakes.

857

00:58:18,220 --> 00:58:20,220

And the tricky one is I've got it on steering.

858

00:58:21,220 --> 00:58:24,220

And if he hopes to hit a ramp at top speed, the steering will be crucial.

859

00:58:24,220 --> 00:58:25,220

But keep on rolling.

860

00:58:26,220 --> 00:58:31,220

Still to come, Jamie's remote controlled car doesn't stay under remote control.

861

00:58:33,220 --> 00:58:37,220

And Tori, Carrie and Grant have their sights set on the lock shooting myth.

862

00:58:43,220 --> 00:58:47,220

A locked door is no barrier for an actor packing a piece.

863

00:58:48,220 --> 00:58:51,220

A single bullet from close range will usually pop a lock.

864

00:58:51,220 --> 00:58:55,220

Now Tori, Carrie and Grant are about to give it a shot themselves.

865

00:58:56,220 --> 00:58:59,220

At the Chabot Gun Club, a familiar face is waiting.

866

00:59:00,220 --> 00:59:04,220

Every time the Mythbusters go ballistic, Sergeant Alan Normandy is on hand.

867

00:59:05,220 --> 00:59:09,220

Before we start shooting, as is always the case when we play with guns, we always talk about the safety risks.

868

00:59:10,220 --> 00:59:14,220

And it's just as well, because they've brought an entire armory with them.

869

00:59:15,220 --> 00:59:20,220

We're starting with the 9mm handgun, then moving up to a 357 magnum.

870

00:59:21,220 --> 00:59:28,220

And if they don't work, then a 12 gauge shotgun and finally the big boy, the M1 Grant.

871

00:59:29,220 --> 00:59:30,220

First the 9mm.

872

00:59:31,220 --> 00:59:36,220

All the padlocks on this door are identical. We're locked and loaded.

873

00:59:40,220 --> 00:59:42,220

Take a deep breath, line up your sights.

874

00:59:44,220 --> 00:59:46,220

Carrie pumps three rounds into the padlock.

875

00:59:46,220 --> 00:59:48,220

Anyone getting through that door?

876

00:59:49,220 --> 00:59:54,220

Alright, it's still working. You hit the bottom here and it's ripped it a little bit.

877

00:59:55,220 --> 00:59:57,220

But the lock is still...

878

00:59:58,220 --> 00:59:59,220

Does it open?

879

00:59:59,220 --> 01:00:01,220

In fact, the key still works.

880

01:00:02,220 --> 01:00:06,220

Standard lock has been shot three times in three different places, side on front on and on the corner.

881

01:00:07,220 --> 01:00:10,220

Still works perfectly. It doesn't open without the key.

882

01:00:11,220 --> 01:00:12,220

9mm.

883

01:00:12,220 --> 01:00:13,220

No good.

884

01:00:14,220 --> 01:00:19,220

The shooting shield is raised to the next lock. This time Carrie will use the 357 magnum.

885

01:00:20,220 --> 01:00:23,220

357, 158 grain, flat tip.

886

01:00:24,220 --> 01:00:26,220

Dirty Harriet blasts away.

887

01:00:27,220 --> 01:00:29,220

In three, two, one.

888

01:00:33,220 --> 01:00:36,220

The lock is battered, but still won't budge.

889

01:00:37,220 --> 01:00:39,220

It's early day, but it's still working.

890

01:00:39,220 --> 01:00:41,220

But still won't budge.

891

01:00:42,220 --> 01:00:46,220

It's early days, but already this Hollywood myth isn't looking very high caliber.

892

01:00:47,220 --> 01:00:52,220

Next, a door studded with dead bolts. Can Carrie's handguns aim up this time?

893

01:00:53,220 --> 01:00:55,220

9mm on dead bolt.

894

01:01:01,220 --> 01:01:02,220

Still works.

895

01:01:03,220 --> 01:01:05,220

So let's move on to the 357.

896

01:01:05,220 --> 01:01:12,220

Once again, those point blank pistols have come up empty.

897

01:01:13,220 --> 01:01:15,220

It's definitely loosened up a lot.

898

01:01:16,220 --> 01:01:17,220

But the lock itself...

899

01:01:19,220 --> 01:01:21,220

Still working.

900

01:01:22,220 --> 01:01:27,220

And guns are not the key. So what sort of firepower does it take to access all areas?

901

01:01:28,220 --> 01:01:31,220

It's time to bring out the big guns.

902

01:01:31,220 --> 01:01:36,220

I'd encourage you guys to get back a little bit, because this is where you're going to have bouncing bullets.

903

01:01:37,220 --> 01:01:39,220

This time, Grants are sharpshooter.

904

01:01:40,220 --> 01:01:45,220

Okay, so this is 12 gauge slug, 1600 feet per second. Everybody ready?

905

01:01:46,220 --> 01:01:48,220

He takes aim at another standard padlock.

906

01:01:49,220 --> 01:01:52,220

Three, two, one.

907

01:01:53,220 --> 01:01:54,220

Oh yeah!

908

01:01:55,220 --> 01:01:56,220

Got all of that one.

909

01:01:57,220 --> 01:01:59,220

Dear slug, I like it.

910

01:01:59,220 --> 01:02:04,220

Hang on, sure there's plenty of damage, but the lock still seems to be attached.

911

01:02:08,220 --> 01:02:09,220

Still working.

912

01:02:09,220 --> 01:02:10,220

There it is.

913

01:02:12,220 --> 01:02:13,220

What are you?

914

01:02:14,220 --> 01:02:15,220

Nice!

915

01:02:15,220 --> 01:02:16,220

Dear slug...

916

01:02:17,220 --> 01:02:18,220

Breaks the locks off.

917

01:02:19,220 --> 01:02:21,220

Now the M1 Garand.

918

01:02:22,220 --> 01:02:25,220

Okay, this is 30-06 high power rifle round.

919

01:02:26,220 --> 01:02:28,220

In three, two, one.

920

01:02:29,220 --> 01:02:30,220

Wow!

921

01:02:33,220 --> 01:02:35,220

Went right through the door jamb.

922

01:02:37,220 --> 01:02:39,220

Oh yeah, I think that does it. What do you guys think?

923

01:02:40,220 --> 01:02:43,220

I don't think we even have to check. I can pretty much tell that the lock's been blown apart.

924

01:02:44,220 --> 01:02:45,220

Oh my god!

925

01:02:46,220 --> 01:02:50,220

What about a deadbolt? Can it survive Grants' heavy artillery?

926

01:02:51,220 --> 01:02:54,220

12 gauge shotgun slug into deadbolt.

927

01:02:55,220 --> 01:02:58,220

In three, two, one.

928

01:02:59,220 --> 01:03:01,220

Yeah!

929

01:03:02,220 --> 01:03:04,220

I think it worked!

930

01:03:05,220 --> 01:03:08,220

The dear slug seems to be the winner of the day.

931

01:03:09,220 --> 01:03:10,220

That's the one.

932

01:03:10,220 --> 01:03:12,220

And the M1 Garand.

933

01:03:12,220 --> 01:03:15,220

In three, two, one.

934

01:03:20,220 --> 01:03:22,220

I think that's how we do that, huh?

935

01:03:22,220 --> 01:03:25,220

I would have to say that the M1 Garand works.

936

01:03:25,220 --> 01:03:29,220

Talk about overkill. The rifles might have destroyed the locks,

937

01:03:29,220 --> 01:03:32,220

but pull the trigger from that distance without protection

938

01:03:32,220 --> 01:03:34,220

and you'd be showered with shrapnel.

939

01:03:35,220 --> 01:03:37,220

So what happened? Fill me in.

940

01:03:37,220 --> 01:03:38,220

Handguns busted.

941

01:03:38,220 --> 01:03:41,220

The shotgun and the M1 Garand plausible.

942

01:03:41,220 --> 01:03:44,220

You know, you really don't recommend this, right?

943

01:03:44,220 --> 01:03:49,220

No, definitely not. There are many easier ways to get into a door, so...

944

01:03:49,220 --> 01:03:50,220

Don't do it.

945

01:03:50,220 --> 01:03:52,220

Besides the fact that it's totally impractical

946

01:03:52,220 --> 01:03:55,220

and the ricochets could kill you or injure you.

947

01:03:55,220 --> 01:03:57,220

Well, that's a good point.

948

01:04:01,220 --> 01:04:02,220

Good job.

949

01:04:02,220 --> 01:04:06,220

Still ahead, Tori takes aim at the myth of the ballistic breakthrough

950

01:04:06,220 --> 01:04:10,220

and the remote-controlled cars on a collision course.

951

01:04:10,220 --> 01:04:11,220

There we go again.

952

01:04:16,220 --> 01:04:19,220

How many times have we seen this at the movies?

953

01:04:19,220 --> 01:04:23,220

Car takes to the skies, car clears huge jump,

954

01:04:23,220 --> 01:04:27,220

car drops back to Earth and miraculously drives on.

955

01:04:28,220 --> 01:04:32,220

Our own Duke of Hazards rigged this beast with remote control.

956

01:04:32,220 --> 01:04:37,220

Now he's waiting to find out how far it'll have to jump to match the movie.

957

01:04:37,220 --> 01:04:39,220

Adam's been studying the scene.

958

01:04:40,220 --> 01:04:41,220

Hey, man.

959

01:04:41,220 --> 01:04:45,220

Yeah, listen, I did the calculations from what I saw in the film

960

01:04:45,220 --> 01:04:49,220

and it looks like the general lead is flying about 175 feet

961

01:04:49,220 --> 01:04:54,220

and by my calculations, that means it should be hitting a 30-degree ramp

962

01:04:54,220 --> 01:04:56,220

at about 70 miles per hour.

963

01:04:56,220 --> 01:04:58,220

Can your RC car go that fast?

964

01:04:58,220 --> 01:05:00,220

Yeah, sure. No problem.

965

01:05:00,220 --> 01:05:03,220

Right. Okay. Well, I'll see you in the next scene.

966

01:05:03,220 --> 01:05:07,220

And that scene is the track where Jamie and Adam plan to make this jump.

967

01:05:09,220 --> 01:05:11,220

So you got some dirt for us?

968

01:05:11,220 --> 01:05:13,220

You want to follow us on the pickup truck?

969

01:05:13,220 --> 01:05:15,220

We'll get down to the end of the runway.

970

01:05:15,220 --> 01:05:17,220

We're going to lay it pretty much right in the middle.

971

01:05:18,220 --> 01:05:22,220

In the Dukes of Hazard, the general lead mounts a pile of Earth.

972

01:05:22,220 --> 01:05:25,220

Adam and Jamie's jump ramp will have to match.

973

01:05:26,220 --> 01:05:28,220

That looks like a big pile of dirt to me.

974

01:05:29,220 --> 01:05:30,220

Hang on, guys.

975

01:05:30,220 --> 01:05:35,220

You plan to launch a car 175 feet off this little old mound of dirt?

976

01:05:36,220 --> 01:05:40,220

Stunt drivers might do crazy stuff with cars,

977

01:05:41,220 --> 01:05:44,220

but at least they use purpose-built ramps.

978

01:05:47,220 --> 01:05:53,220

Over the years, Australian stunt king Ray Bauman has dragged a variety of vehicles over such ramps.

979

01:05:55,220 --> 01:06:00,220

In 1998, Ray took a tilt at the record for the world's longest car jump.

980

01:06:00,220 --> 01:06:05,220

The rules stated that his car would have to land on four wheels and drive away.

981

01:06:05,220 --> 01:06:10,220

In other words, he'd have to replicate our movie myth to take the title.

982

01:06:11,220 --> 01:06:12,220

Did he succeed?

983

01:06:12,220 --> 01:06:15,220

But we'll come back and find out how Ray got on later.

984

01:06:17,220 --> 01:06:20,220

Meanwhile, Adam and Jamie are getting down and dirty.

985

01:06:21,220 --> 01:06:24,220

I pronounced this, hide him in mountain.

986

01:06:25,220 --> 01:06:28,220

Turning a mound of dirt into a ramp isn't as easy as it sounds.

987

01:06:28,220 --> 01:06:32,220

If the Earth isn't compacted, the car will just plow through it.

988

01:06:36,220 --> 01:06:38,220

Jamie has a plan.

989

01:06:39,220 --> 01:06:44,220

The way that we used to do it on building sites is about a foot at a time and then flatten it out.

990

01:06:45,220 --> 01:06:48,220

So we build it up very methodically.

991

01:06:49,220 --> 01:06:52,220

Hold it a second, Jamie. You worked on building sites?

992

01:06:53,220 --> 01:06:57,220

In one of my former lives, I actually worked as a building inspector.

993

01:06:58,220 --> 01:07:04,220

And part of my job was to stand around and watch as layer after layer was put in on building sites

994

01:07:04,220 --> 01:07:09,220

because when you're about to build a foundation, it's important that dirt be properly compacted.

995

01:07:11,220 --> 01:07:14,220

Jamie lays down one layer at a time for Adam to roll.

996

01:07:15,220 --> 01:07:19,220

Gradually, the ramp rises to the required 30-degree angle.

997

01:07:20,220 --> 01:07:23,220

Boy, that ramp's skinnier than Daisy Duke's Denim's.

998

01:07:24,220 --> 01:07:28,220

Remember, Jamie's RC car has to hit the ramp at top speed.

999

01:07:29,220 --> 01:07:33,220

There's no margin for error, so they'll need to make the target a little bigger.

1000

01:07:34,220 --> 01:07:39,220

What we're doing here is making the hump a little larger, a little wider,

1001

01:07:40,220 --> 01:07:46,220

because when that car gets going 90 miles an hour, I don't really know how dead center I'm going to be able to get it on this thing.

1002

01:07:47,220 --> 01:07:50,220

The hump, as it was, is just perfect.

1003

01:07:51,220 --> 01:07:53,220

We want a little additional insurance.

1004

01:07:54,220 --> 01:08:01,220

What we don't want to have is this once we get going, and that's what will happen if we go off to one side or the other just a few inches.

1005

01:08:02,220 --> 01:08:06,220

They widen the ramp, giving Jamie a larger target to aim at.

1006

01:08:11,220 --> 01:08:13,220

Nothing like a good hump, is what I always say.

1007

01:08:14,220 --> 01:08:17,220

We've got a nice hump over here. We're going to jump the hump.

1008

01:08:19,220 --> 01:08:23,220

Well, I call that mountain finish. It's as close to 30 degrees as we're going to get.

1009

01:08:24,220 --> 01:08:30,220

It's nice and solid. The only question is, can Jamie hit it with an RC car at 70 miles per hour?

1010

01:08:34,220 --> 01:08:37,220

Jamie runs a complete check of the car's remote control system.

1011

01:08:38,220 --> 01:08:40,220

When the time comes, it'll have to work without a glitch.

1012

01:08:42,220 --> 01:08:46,220

What I'm looking for is smoothness and control, and particular on the steering.

1013

01:08:47,220 --> 01:08:56,220

These older cars tend to float a lot. They're kind of boats, and that's always been a problem for me because I need to get it really tracking straight.

1014

01:08:57,220 --> 01:09:03,220

To help them achieve that, there's an added feature, never before seen on a Heinemann RC Special.

1015

01:09:04,220 --> 01:09:08,220

We're going to call this the Jamie Cam. We have the actual camera lens out here.

1016

01:09:09,220 --> 01:09:15,220

We have the transmitter inside the car, and then we have this monitor, which I'll be able to look at, as well as look at the car.

1017

01:09:16,220 --> 01:09:19,220

You know, through the windshield of the chase vehicle as I'm going along.

1018

01:09:20,220 --> 01:09:24,220

Remember, Jamie already has four servos to control.

1019

01:09:25,220 --> 01:09:31,220

Throttle, brake, steering, and gearship.

1020

01:09:32,220 --> 01:09:39,220

And at the same time, he'll be monitoring the car's trajectory on screen. Hope his coordination's up to scratch.

1021

01:09:40,220 --> 01:09:42,220

It's time to take this puppy for a test drive.

1022

01:09:43,220 --> 01:09:49,220

Remember, if the car gets out of control, don't try to outrun it. Go at right angles.

1023

01:09:50,220 --> 01:09:55,220

Nature knows that that's the best way of getting out of the way of a thing that's faster than you are.

1024

01:09:57,220 --> 01:10:01,220

Slowly, the world's biggest toy car takes to the road.

1025

01:10:02,220 --> 01:10:04,220

I never get tired of watching one of those things go.

1026

01:10:05,220 --> 01:10:08,220

And almost immediately, it veers off it again.

1027

01:10:09,220 --> 01:10:10,220

Uh-oh.

1028

01:10:12,220 --> 01:10:13,220

Turn it off.

1029

01:10:14,220 --> 01:10:16,220

What? There we go again.

1030

01:10:20,220 --> 01:10:22,220

I haven't set the fail safe yet.

1031

01:10:22,220 --> 01:10:23,220

You haven't?

1032

01:10:23,220 --> 01:10:24,220

Nope.

1033

01:10:24,220 --> 01:10:26,220

At least you weren't in it this time, Adam.

1034

01:10:27,220 --> 01:10:31,220

Back in the dried shaft pole vault myth, Adam found himself taking a backseat.

1035

01:10:33,220 --> 01:10:37,220

As Jamie's remote-controlled car crashed through the same fence.

1036

01:10:38,220 --> 01:10:40,220

What the hell was that?

1037

01:10:40,220 --> 01:10:42,220

We better call the fence company again.

1038

01:10:44,220 --> 01:10:47,220

After all the effort it's taken to bring the car under his control,

1039

01:10:49,220 --> 01:10:51,220

Jamie forgot just one little bitty thing.

1040

01:10:52,220 --> 01:10:53,220

The fail safe.

1041

01:10:54,220 --> 01:10:56,220

I don't know why the brakes didn't come on.

1042

01:10:57,220 --> 01:11:00,220

Fail safe is exactly what the term implies.

1043

01:11:01,220 --> 01:11:07,220

That any failure mode is a safe failure mode, i.e. if we lose the ability to control the car with the radio.

1044

01:11:08,220 --> 01:11:12,220

That its default will be to put its brakes on.

1045

01:11:13,220 --> 01:11:18,220

And apparently in this test Jamie hadn't yet set the fail safe, so he's doing that right now.

1046

01:11:19,220 --> 01:11:21,220

I should be able to turn off the radio.

1047

01:11:21,220 --> 01:11:22,220

And the brake will activate.

1048

01:11:22,220 --> 01:11:23,220

And the brake will go on.

1049

01:11:23,220 --> 01:11:24,220

All right.

1050

01:11:26,220 --> 01:11:27,220

There it goes.

1051

01:11:27,220 --> 01:11:28,220

And there it is.

1052

01:11:28,220 --> 01:11:29,220

Good.

1053

01:11:29,220 --> 01:11:30,220

All right.

1054

01:11:30,220 --> 01:11:31,220

Excellent.

1055

01:11:31,220 --> 01:11:34,220

Jamie has to make sure he has this car under control.

1056

01:11:34,220 --> 01:11:39,220

If he's off, even by a few inches, the whole experiment will crash and burn.

1057

01:11:40,220 --> 01:11:46,220

The guys do a test run at 50 miles per hour, with Jamie trying to steer the car from the chase vehicle.

1058

01:11:49,220 --> 01:11:50,220

It went to fail safe.

1059

01:11:51,220 --> 01:11:52,220

Interesting.

1060

01:11:52,220 --> 01:11:54,220

Well, I probably got too far away.

1061

01:11:54,220 --> 01:11:55,220

Yeah.

1062

01:11:55,220 --> 01:11:56,220

Here's another challenge.

1063

01:11:56,220 --> 01:12:01,220

Adam will have to stay close to the car, so Jamie's transmitter stays in range.

1064

01:12:02,220 --> 01:12:05,220

It's much easier for me to judge its speed if I'm off to the side a little bit.

1065

01:12:05,220 --> 01:12:06,220

OK.

1066

01:12:06,220 --> 01:12:07,220

And staying with it.

1067

01:12:07,220 --> 01:12:08,220

All right.

1068

01:12:08,220 --> 01:12:11,220

Jamie has to maintain control of the car.

1069

01:12:11,220 --> 01:12:14,220

Oh, there it is.

1070

01:12:14,220 --> 01:12:18,220

Adam has to make sure he keeps Jamie's transmitter in range.

1071

01:12:18,220 --> 01:12:20,220

You're not keeping me where I want to be.

1072

01:12:20,220 --> 01:12:21,220

Sorry.

1073

01:12:22,220 --> 01:12:26,220

They do several laps of the runway, trying to master the choreography.

1074

01:12:27,220 --> 01:12:28,220

15 miles an hour.

1075

01:12:28,220 --> 01:12:37,220

The only thing that I could use some help with is I'm just focusing on that line, and like, I have no idea that I'm about to the end of the runway.

1076

01:12:37,220 --> 01:12:38,220

OK.

1077

01:12:38,220 --> 01:12:39,220

I will keep you posted on that.

1078

01:12:39,220 --> 01:12:41,220

So you think we're ready to do it for real?

1079

01:12:41,220 --> 01:12:43,220

Ready as I'll ever be.

1080

01:12:46,220 --> 01:12:47,220

Still to come.

1081

01:12:47,220 --> 01:12:49,220

Can you use bullets to bust through a floor?

1082

01:12:51,220 --> 01:12:52,220

You can totally do it.

1083

01:12:53,220 --> 01:12:56,220

And Adam and Jamie put the pedal to the pedal.

1084

01:12:59,220 --> 01:13:00,220

Ugh.

1085

01:13:09,220 --> 01:13:12,220

Earlier, the guy shot a few holes in the lock shooting myth.

1086

01:13:17,220 --> 01:13:22,220

And since then, Tauri's had a video night at his house and seen this.

1087

01:13:23,220 --> 01:13:30,220

In the movie Underworld, Kate Beckinsdale's vampy vampire is cornered by a pack of slaving werewolves.

1088

01:13:30,220 --> 01:13:34,220

So she decides to shoot her way out, straight down.

1089

01:13:36,220 --> 01:13:38,220

No prizes for guessing the next myth.

1090

01:13:38,220 --> 01:13:42,220

Does Tauri look any good in a PVC body suit?

1091

01:13:42,220 --> 01:13:43,220

Nah, just kidding.

1092

01:13:43,220 --> 01:13:48,220

Tauri's going to find out if shooting a hole in a floor is a viable means of escape.

1093

01:13:48,220 --> 01:13:51,220

Tauri, I've been thinking about the ballistic breakout thing.

1094

01:13:51,220 --> 01:13:55,220

I don't think you can just stand on a floor and start shooting around yourself.

1095

01:13:55,220 --> 01:14:00,220

There's too much of a risk from either ricochets or secondary ricochets from like nails and wood chips.

1096

01:14:00,220 --> 01:14:02,220

Not to mention that I might shoot my foot off.

1097

01:14:02,220 --> 01:14:04,220

If you're that bad a shot.

1098

01:14:04,220 --> 01:14:05,220

I might.

1099

01:14:05,220 --> 01:14:06,220

You never know.

1100

01:14:06,220 --> 01:14:07,220

Do you have a plan?

1101

01:14:07,220 --> 01:14:08,220

Well, yeah.

1102

01:14:08,220 --> 01:14:17,220

Well, speaking maybe we'll do, I'll build a target deck and then just above that, I'll build another deck with a hole in it and I can shoot through that deck and it'll keep me safe from any stray bullets.

1103

01:14:17,220 --> 01:14:18,220

I think that's perfect.

1104

01:14:18,220 --> 01:14:24,220

Tauri plans to construct a platform with a circular slot cut into it for the muzzle of the gun.

1105

01:14:24,220 --> 01:14:26,220

The target floor sits underneath.

1106

01:14:26,220 --> 01:14:32,220

Tauri will try and blast a ring around a pile of sandbags and see if they crash through.

1107

01:14:35,220 --> 01:14:39,220

Now, Tauri's highly skilled when it comes to set design.

1108

01:14:39,220 --> 01:14:46,220

Back when Adam and Jamie plunged into the appliances and the bath myth, he built a whole bathroom in the workshop.

1109

01:14:46,220 --> 01:14:48,220

So a timber deck is a no-brainer.

1110

01:14:52,220 --> 01:14:53,220

This is the shooter's deck.

1111

01:14:53,220 --> 01:15:02,220

I have a one-inch slot that I will be able to stick the muzzle of the gun through and try to shoot a hole in the target deck.

1112

01:15:07,220 --> 01:15:09,220

And then I'll come on this side.

1113

01:15:10,220 --> 01:15:17,220

In the movie, the floor looks to be tiled, so vinyl tiles are laid on the plywood half of the deck.

1114

01:15:20,220 --> 01:15:28,220

Back out of the range, the target floor is set up with the shooting platform positioned over the top.

1115

01:15:29,220 --> 01:15:37,220

Well, you know, this whole experiment is shooting a hole to escape and you would have to be standing there shooting around your feet.

1116

01:15:37,220 --> 01:15:39,220

We're not allowed to do that. It's too dangerous.

1117

01:15:39,220 --> 01:15:46,220

So what we're going to do is put 150 to 180 pounds and I'm going to shoot around that and that's going to simulate a human being standing there.

1118

01:15:46,220 --> 01:15:50,220

This way I'll be out of the way and we'll have the weight.

1119

01:15:50,220 --> 01:15:53,220

In case we do cut a hole, the weight will drop through the floor.

1120

01:15:57,220 --> 01:16:02,220

In the movie myth, the hole is opened up using two 9mm automatic pistols.

1121

01:16:03,220 --> 01:16:12,220

Tori will use a fully automatic MP5, which also fires 9mm bullets. He's never handled a weapon like this before.

1122

01:16:12,220 --> 01:16:14,220

Is the weapon on safe?

1123

01:16:14,220 --> 01:16:15,220

It is.

1124

01:16:15,220 --> 01:16:18,220

So Sergeant Alan Normandy gives Tori a thorough safety briefing.

1125

01:16:18,220 --> 01:16:21,220

Go ahead and now make the gun totally safe.

1126

01:16:23,220 --> 01:16:24,220

Okay, let it hang.

1127

01:16:27,220 --> 01:16:30,220

Okay, let's say you're trying to escape someone.

1128

01:16:30,220 --> 01:16:36,220

Would you ever think of shooting a circular hole in the ground and, you know, dropping through?

1129

01:16:36,220 --> 01:16:41,220

Well, if I was a cartoon character, I might try that, but in real life, no, I would imagine that would never work.

1130

01:16:41,220 --> 01:16:44,220

So it's as likely as crime fighting in stilettos.

1131

01:16:44,220 --> 01:16:46,220

No, but they look cool.

1132

01:16:46,220 --> 01:16:47,220

Oh, yeah.

1133

01:16:47,220 --> 01:16:48,220

They look cool.

1134

01:16:48,220 --> 01:16:50,220

If you're ever going to bust that myth, give me a call.

1135

01:16:52,220 --> 01:16:54,220

Okay, movie right along.

1136

01:16:54,220 --> 01:16:58,220

It's time to find out if bullets can open up an escape hatch.

1137

01:16:58,220 --> 01:16:59,220

Okay, ready?

1138

01:16:59,220 --> 01:17:07,220

We've got a floor, sandbags that weigh the same as a person, a shooting platform, and a myth buster with an itchy trigger finger.

1139

01:17:07,220 --> 01:17:11,220

So now Tori gets to live out his Counter-Strike fantasy.

1140

01:17:12,220 --> 01:17:20,220

In Underworld, Kate Beckinsdale needs only two 20-round clips to achieve her ballistic breakthrough and escape the werewolf horn.

1141

01:17:25,220 --> 01:17:27,220

How many will Tori need?

1142

01:17:28,220 --> 01:17:29,220

Yeah!

1143

01:17:30,220 --> 01:17:31,220

Oh, no.

1144

01:17:34,220 --> 01:17:36,220

He empties one clip,

1145

01:17:39,220 --> 01:17:40,220

then another.

1146

01:17:41,220 --> 01:17:43,220

He's a lot better at this online.

1147

01:17:43,220 --> 01:17:44,220

It's never like the movies.

1148

01:17:44,220 --> 01:17:45,220

No.

1149

01:17:45,220 --> 01:17:46,220

Ever.

1150

01:17:46,220 --> 01:17:49,220

That's 40 rounds, but the floor's still intact.

1151

01:17:50,220 --> 01:17:59,220

The bullets stitch a circle in the timber, but it looks like he might have done too good a job building the floor.

1152

01:18:01,220 --> 01:18:04,220

The support beams are getting in the way.

1153

01:18:04,220 --> 01:18:05,220

I guess it's the shotgun.

1154

01:18:05,220 --> 01:18:06,220

You're going to help?

1155

01:18:06,220 --> 01:18:07,220

Yep.

1156

01:18:07,220 --> 01:18:15,220

Looking like a certain 1930s cartoon character, Gwent uses the shotgun to blast away to washwe support beams.

1157

01:18:16,220 --> 01:18:19,220

And soon it's a tag team floor show.

1158

01:18:39,220 --> 01:18:42,220

After half an hour, Tori runs out of ammo.

1159

01:18:43,220 --> 01:18:48,220

All right, dude, that's 360 rounds, plus your help with the shotgun.

1160

01:18:48,220 --> 01:18:52,220

The careful observer will note that the sandbags are still there.

1161

01:18:54,220 --> 01:18:55,220

You're almost there.

1162

01:18:55,220 --> 01:18:57,220

Tori resorts to trampling the timber.

1163

01:18:58,220 --> 01:19:00,220

He finally makes it through the plywood.

1164

01:19:02,220 --> 01:19:03,220

All right, well.

1165

01:19:03,220 --> 01:19:04,220

There you go.

1166

01:19:05,220 --> 01:19:07,220

Kind of half way escaped.

1167

01:19:07,220 --> 01:19:11,220

Looks like this movie myth is seriously flawed.

1168

01:19:13,220 --> 01:19:15,220

Let's just face it, this is totally busted.

1169

01:19:15,220 --> 01:19:17,220

This is completely impractical.

1170

01:19:17,220 --> 01:19:18,220

It took way too long.

1171

01:19:18,220 --> 01:19:19,220

It took way too much ammunition.

1172

01:19:19,220 --> 01:19:21,220

It's not remotely like the movies.

1173

01:19:21,220 --> 01:19:26,220

The way you would see it in a Hollywood, where someone just shoots right through the floor.

1174

01:19:26,220 --> 01:19:27,220

Not going to happen.

1175

01:19:27,220 --> 01:19:28,220

It's never going to happen.

1176

01:19:28,220 --> 01:19:29,220

This one's busted.

1177

01:19:29,220 --> 01:19:30,220

It's busted.

1178

01:19:30,220 --> 01:19:31,220

But man, that sure was fun.

1179

01:19:31,220 --> 01:19:32,220

I'm not going to lie.

1180

01:19:32,220 --> 01:19:33,220

Nice circle.

1181

01:19:38,220 --> 01:19:42,220

After the break, our mega movie myth special reaches its climax.

1182

01:19:42,220 --> 01:19:47,220

Adam and Jamie try to duplicate the dukes and make a car fly far.

1183

01:19:54,220 --> 01:19:58,220

Our mega movie myth special has reached its final reel.

1184

01:19:58,220 --> 01:20:03,220

Can a car jump 175 feet and still be drivable?

1185

01:20:03,220 --> 01:20:09,220

Adam and Jamie have got a remote controlled car, a dirt ramp, and just one shot.

1186

01:20:10,220 --> 01:20:16,220

The worst case scenario is that the car hits this bump off to the side and just rolls.

1187

01:20:16,220 --> 01:20:20,220

In that case, I don't think we're getting this car running again.

1188

01:20:20,220 --> 01:20:24,220

And I don't know what the hell we do then.

1189

01:20:24,220 --> 01:20:27,220

Just as they're about to launch, there's a problem.

1190

01:20:27,220 --> 01:20:29,220

The car has a flat.

1191

01:20:30,220 --> 01:20:34,220

This car last saw action in the rough road driving myth.

1192

01:20:36,220 --> 01:20:42,220

That was fairly sedate handling by mythmusters standards, but it obviously still took its toll.

1193

01:20:42,220 --> 01:20:45,220

Still, Adam's being philosophical.

1194

01:20:45,220 --> 01:20:47,220

Well, it goes like this.

1195

01:20:47,220 --> 01:20:53,220

If you're doing something and there's no problems the whole way through, there's bound to be some major screw up at the very end.

1196

01:20:53,220 --> 01:21:00,220

But if you encounter a series of small problems along the way, Murphy's law dictates that that will take care of the problem gods.

1197

01:21:00,220 --> 01:21:03,220

And you won't have a major disaster along the way.

1198

01:21:03,220 --> 01:21:07,220

So hopefully this is one of those nice small problems it's easy to deal with.

1199

01:21:07,220 --> 01:21:09,220

Nice theory, Adam.

1200

01:21:09,220 --> 01:21:12,220

Except that the jack doesn't work.

1201

01:21:15,220 --> 01:21:19,220

Maybe you haven't appeased the problem gods after all.

1202

01:21:20,220 --> 01:21:23,220

We're just going to bring over the tractor.

1203

01:21:23,220 --> 01:21:25,220

Lift the car with the tractor.

1204

01:21:25,220 --> 01:21:28,220

As long as we got one, it's a cheap car jack.

1205

01:21:30,220 --> 01:21:34,220

There's no spare, so Adam has to seal the leak.

1206

01:21:34,220 --> 01:21:39,220

All they can do now is hope the tire will survive until the car mounts that ramp.

1207

01:21:41,220 --> 01:21:42,220

Right.

1208

01:21:42,220 --> 01:21:47,220

It's time to see if our own Kings of Catastrophe can match it with the Dukes of Hassem.

1209

01:21:50,220 --> 01:21:52,220

You ready, Jamie?

1210

01:21:52,220 --> 01:21:54,220

And gear. Go.

1211

01:21:56,220 --> 01:22:01,220

The car has a camera on the hood, so Jamie will be able to see the ramp approaching.

1212

01:22:02,220 --> 01:22:08,220

Adam has to tail the RC car closely so that the RC transmitter stays in range.

1213

01:22:08,220 --> 01:22:11,220

Jamie's got white line fever.

1214

01:22:11,220 --> 01:22:13,220

Keep my eye level on that line.

1215

01:22:14,220 --> 01:22:17,220

The car hits 65 miles per hour.

1216

01:22:17,220 --> 01:22:20,220

The chase vehicle in hot pursuit.

1217

01:22:22,220 --> 01:22:26,220

With the ramp looming, the car suddenly starts swerving back and forth.

1218

01:22:28,220 --> 01:22:31,220

Jamie struggles to regain control.

1219

01:22:32,220 --> 01:22:34,220

We can totally do it.

1220

01:22:36,220 --> 01:22:39,220

At the last second, he threads the needle.

1221

01:22:44,220 --> 01:22:57,220

And another Mythbusters experiment ends with the reassuring sound of rending metal.

1222

01:23:02,220 --> 01:23:04,220

Oh my lord.

1223

01:23:05,220 --> 01:23:07,220

That was so close to an abort.

1224

01:23:07,220 --> 01:23:11,220

I was watching you like go back and forth and back and forth and back and forth and then like...

1225

01:23:12,220 --> 01:23:17,220

Maybe like four seconds before you hit the ramp, you just hit it perfectly, perfectly centered.

1226

01:23:17,220 --> 01:23:19,220

That was nice driving.

1227

01:23:19,220 --> 01:23:21,220

Thank you, Adam.

1228

01:23:21,220 --> 01:23:23,220

It was nice driving.

1229

01:23:23,220 --> 01:23:26,220

That car couldn't have hit the ramp any squareer.

1230

01:23:27,220 --> 01:23:31,220

You know, I was about ready to abort, but I just kind of like...

1231

01:23:31,220 --> 01:23:35,220

I saw it kind of hit a sweet spot right before the ramp.

1232

01:23:36,220 --> 01:23:39,220

And I just kind of...

1233

01:23:39,220 --> 01:23:42,220

Didn't do a whole lot, just the lightest touch.

1234

01:23:42,220 --> 01:23:45,220

And it made it and went right down the slot.

1235

01:23:45,220 --> 01:23:47,220

Shall we measure out how far it went?

1236

01:23:47,220 --> 01:23:50,220

Yeah, I think it's pretty clear where it landed.

1237

01:23:50,220 --> 01:23:52,220

Where do you think Sherlock?

1238

01:23:52,220 --> 01:23:54,220

Look at the dirt trail that it spread the whole way.

1239

01:23:54,220 --> 01:24:00,220

Remember, Adam calculated the length of the General E's jump to be around 175 feet.

1240

01:24:00,220 --> 01:24:04,220

All right, it left from right here.

1241

01:24:06,220 --> 01:24:08,220

What do we get?

1242

01:24:08,220 --> 01:24:10,220

You're not going to believe it.

1243

01:24:10,220 --> 01:24:12,220

150?

1244

01:24:12,220 --> 01:24:14,220

172.

1245

01:24:14,220 --> 01:24:16,220

No!

1246

01:24:16,220 --> 01:24:19,220

We came within three feet of our target distance, baby.

1247

01:24:19,220 --> 01:24:21,220

We're not going to get any closer than that.

1248

01:24:21,220 --> 01:24:25,220

And the myth, well, like the car, it's a write-off.

1249

01:24:25,220 --> 01:24:29,220

Yes, they could have flown 175 feet on a mound of dirt.

1250

01:24:29,220 --> 01:24:33,220

I think we've definitively proved that that part of this myth is plausible.

1251

01:24:33,220 --> 01:24:37,220

That you could drive away from an impact like this?

1252

01:24:37,220 --> 01:24:40,220

Well, I definitely don't think you could drive away.

1253

01:24:40,220 --> 01:24:43,220

I'm not even sure you could walk away.

1254

01:24:43,220 --> 01:24:48,220

I mean, there's no way that anyone is remotely driving away in this thing.

1255

01:24:48,220 --> 01:24:50,220

It's busted.

1256

01:24:50,220 --> 01:24:53,220

The car's busted, the myth is busted.

1257

01:24:53,220 --> 01:24:57,220

That's true. It's very hard on a car if you do that.

1258

01:24:57,220 --> 01:25:00,220

Well, there's your problem.

1259

01:25:04,220 --> 01:25:07,220

Oh, and by the way, remember Ray Bowman?

1260

01:25:07,220 --> 01:25:12,220

He's the Australian stunt car driver who was aiming for the world record for the longest car jump.

1261

01:25:12,220 --> 01:25:18,220

To claim the title, his car had to land on four wheels and drive away after the jump.

1262

01:25:18,220 --> 01:25:24,220

Well, the car flew 272 feet, landed on four wheels and kept on driving.

1263

01:25:24,220 --> 01:25:26,220

It was a new world record.

1264

01:25:26,220 --> 01:25:31,220

But Ray not only busted the old record, he also busted several vertebrae

1265

01:25:31,220 --> 01:25:33,220

and spent six weeks in hospital.

1266

01:25:33,220 --> 01:25:38,220

So thanks, Ray. You helped bust this movie myth once and for all.

1267

01:25:38,220 --> 01:25:41,220

Look at that. Is there a more beautiful view than that?

1268

01:25:41,220 --> 01:25:48,220

San Francisco in the distance, destroyed car that flew exactly how far we wanted to do in the foreground.

1269

01:25:54,220 --> 01:25:56,220

Yep, good feel.

1270

01:26:01,220 --> 01:26:05,220

Guys, that was great. I loved doing this episode.

1271

01:26:05,220 --> 01:26:07,220

Well, let's recap. What did we get?

1272

01:26:07,220 --> 01:26:09,220

The awning fall was plausible.

1273

01:26:14,220 --> 01:26:17,220

Cutting a sword with a sword totally busted.

1274

01:26:21,220 --> 01:26:24,220

The ejection seat was plausible.

1275

01:26:25,220 --> 01:26:28,220

Oh, and a ballistics player again.

1276

01:26:28,220 --> 01:26:31,220

When you shoot through the floor, that was busted.

1277

01:26:34,220 --> 01:26:40,220

Shooting a lock was busted for handguns but plausible for heavy artillery.

1278

01:26:43,220 --> 01:26:48,220

And jumping a gorge and driving away completely busted.

1279

01:26:55,220 --> 01:27:00,220

You guys really know how to ruin a movie. That's confirmed.

1280

01:27:04,220 --> 01:27:06,220

Please.