

1

00:00:00,000 --> 00:00:02,500

On this episode of MythBusters,

2

00:00:02,500 --> 00:00:03,500

Come on!

3

00:00:03,500 --> 00:00:05,500

the team take on Hollywood

4

00:00:05,500 --> 00:00:09,000

in the myth of the life raft parachute.

5

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

No!

6

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

The build team lose their heads over hair care.

7

00:00:13,000 --> 00:00:14,500

Broke explosion!

8

00:00:14,500 --> 00:00:18,000

as they test the explosive properties of hair cream.

9

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

Hold up, babe.

10

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

And at the boneyard, the boys are having fun.

11

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

Ah, this occurred to me. What am I doing today?

12

00:00:25,000 --> 00:00:26,500

Cuttin' up a plane!

13

00:00:26,500 --> 00:00:29,500

For a tall tale of fuselage free fall,

14

00:00:29,500 --> 00:00:33,500

where Buster discovers velocity can be terminal.

15

00:00:33,500 --> 00:00:34,500

Oh my god.

16

00:00:35,500 --> 00:00:37,500

Who are the MythBusters?

17

00:00:37,500 --> 00:00:39,500

Adam Savage

18

00:00:39,500 --> 00:00:42,000

I reject the reality and substitute my own.

19

00:00:42,000 --> 00:00:43,500

And Jamie Heineman

20

00:00:43,500 --> 00:00:45,500

We're either gonna die or we're gonna fly.

21

00:00:45,500 --> 00:00:49,500

Between them more than 30 years special effects experience.

22

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

That was intense.

23

00:00:52,000 --> 00:00:53,500

They don't just tell the myths,

24

00:00:55,500 --> 00:00:57,500

they put them to the test.

25

00:00:59,500 --> 00:01:01,500

The MythBusters

26

00:01:06,500 --> 00:01:10,500

So, we're back at one of our favorite locations to shoot at, Jamie.

27

00:01:10,500 --> 00:01:11,500

What are we doing here this time?

28

00:01:11,500 --> 00:01:13,500

Well, I'm not sure what you're doing here.

29

00:01:13,500 --> 00:01:15,500

Why don't you take that off before we pass out?

30

00:01:15,500 --> 00:01:20,500

Um, this is yet another interesting Hollywood approach to physics.

31

00:01:20,500 --> 00:01:24,500

And it involves surviving a fall from an aircraft

32

00:01:24,500 --> 00:01:28,000

by using a escape slide or a life raft as a parachute.

33

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

You know how to fly, don't you?

34

00:01:30,000 --> 00:01:31,000

No.

35

00:01:35,000 --> 00:01:39,000

Everyone's favorite archaeologist shows us how it's done.

36

00:01:41,000 --> 00:01:46,000

With a physics defying save the day Hollywood leap of faith.

37

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

Followed by an unlikely landing.

38

00:01:52,000 --> 00:01:57,000

So is it Hollywood hocus pocus or can it be done in the real world?

39

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

For answers, the team have come once again to the Mojave Desert Boneyard,

40

00:02:03,000 --> 00:02:06,000

aka MythBusting Heaven.

41

00:02:06,000 --> 00:02:07,000

That was cool!

42

00:02:07,000 --> 00:02:10,000

Where old airliners go to die.

43

00:02:10,000 --> 00:02:13,000

So, what is our plan? Where do we begin?

44

00:02:13,000 --> 00:02:16,000

Well, obviously we have to find an escape slide and a life raft

45

00:02:16,000 --> 00:02:21,000

and we're gonna attach Buster to them and haul him up in the air in a helicopter.

46

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

At that point we'll drop him and compare the speed that he falls at

47

00:02:26,000 --> 00:02:29,000

with what he would fall if he wasn't attached to anything.

48

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

And maybe it'll be a survivable speed.

49

00:02:32,000 --> 00:02:34,000

Well, one can only hope.

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00:02:35,000 --> 00:02:37,000

In order to simulate a fall from an aircraft,

51

00:02:37,000 --> 00:02:40,000

the team need only drop Buster from 2,000 feet

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00:02:40,000 --> 00:02:45,000

because an average person will reach their terminal or maximum velocity

53

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

in the first 14 seconds of a free fall.

54

00:02:48,000 --> 00:02:53,000

So, no point going any higher because he won't hit the ground any harder.

55

00:02:53,000 --> 00:02:58,000

Grant has given the task of preparing Buster for his aerial raft ride.

56

00:02:58,000 --> 00:03:01,000

The free-flight rig is all about information.

57

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

To crack this myth, the team will need to know exactly how fast the fall

58

00:03:06,000 --> 00:03:09,000

and more importantly, how hard the landing.

59

00:03:09,000 --> 00:03:12,000

In order to determine if Buster has survived any of these falls,

60

00:03:12,000 --> 00:03:14,000

we've got a variety of meters.

61

00:03:14,000 --> 00:03:17,000

We've got the accelerometer in the head.

62

00:03:17,000 --> 00:03:21,000

We've got a velocity meter that's actually used by the special forces

63

00:03:21,000 --> 00:03:26,000

that senses changes in air pressure to tell you what the velocity is.

64

00:03:26,000 --> 00:03:32,000

We've got frangible bones that we know will break according to human bones.

65

00:03:32,000 --> 00:03:37,000

We've got shock meters that will tell us by visual indication

66

00:03:37,000 --> 00:03:39,000

if we've exceeded certain G-forces.

67

00:03:40,000 --> 00:03:42,000

And there's always the trusty radar gun

68

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

that Grant will use to manually track Buster to the ground.

69

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

Plus, it's cool.

70

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

And speaking of toys, Christmas has just come early for Adam.

71

00:03:51,000 --> 00:03:54,000

I'm just about to do something that I have always wanted to do,

72

00:03:54,000 --> 00:03:59,000

which is to pull the quick release on an inflatable life raft.

73

00:04:01,000 --> 00:04:06,000

Back at base, Carrie has found an explosive myth on the Discovery fan site.

74

00:04:06,000 --> 00:04:13,000

It seems in the 1950s, the Canadian Air Force had a series of freak accidents with their fighter planes.

75

00:04:13,000 --> 00:04:16,000

One application makes your hair look excitingly clean.

76

00:04:17,000 --> 00:04:22,000

Supposedly, the pilots were decapitated by an explosion before the planes even hit the ground.

77

00:04:22,000 --> 00:04:26,000

This man applied twice. Now he's in trouble.

78

00:04:26,000 --> 00:04:30,000

It seems that a combination of hair cream, an oxygen-rich environment,

79

00:04:30,000 --> 00:04:35,000

and a spark from the communication system might have made the head explode into flames.

80

00:04:35,000 --> 00:04:38,000

We refuse to be responsible.

81

00:04:38,000 --> 00:04:44,000

So could our daffodil Canadian's hair care regime, pure oxygen to his face mask,

82

00:04:45,000 --> 00:04:50,000

and a simple communications short circuit in his F-104 Starfighter,

83

00:04:50,000 --> 00:04:53,000

really lead to a mind-blowing flight?

84

00:04:53,000 --> 00:04:59,000

Since we know that oxygen can cause a very aggressive fire or even an explosion,

85

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

given the right fuels, it seems to me that the heart of this myth is whether hair cream and hair

86

00:05:06,000 --> 00:05:10,000

are one of those explosive fuels.

87

00:05:10,000 --> 00:05:14,000

And so we need to maybe start out with a scale miniature of this

88

00:05:14,000 --> 00:05:19,000

and see what happens with that before we start to deal with massive quantities of hair cream

89

00:05:19,000 --> 00:05:21,000

and potentially all, you know, die.

90

00:05:21,000 --> 00:05:23,000

Dying would be bad.

91

00:05:23,000 --> 00:05:26,000

To avoid it, the build team rigs an explosion chamber

92

00:05:26,000 --> 00:05:30,000

in which they'll carry out their flammability tests.

93

00:05:30,000 --> 00:05:32,000

Test one.

94

00:05:32,000 --> 00:05:38,000

In an oxygen-rich environment, will a short circuit spark ignite hair without hair cream?

95

00:05:38,000 --> 00:05:42,000

We'll test in three, two, one.

96

00:05:46,000 --> 00:05:47,000

Missile that.

97

00:05:47,000 --> 00:05:50,000

Okay, no results with spark only.

98

00:05:50,000 --> 00:05:51,000

Test two.

99

00:05:51,000 --> 00:05:56,000

Under the same conditions, will hair rubbed with hair cream go up in flames?

100

00:05:56,000 --> 00:05:57,000

Go.

101

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

Yay!

102

00:05:59,000 --> 00:06:01,000

Fireball!

103

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

It's sparking. Look at the sparking.

104

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

Oh, and it's traveling up in flames.

105

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

Oh dear.

106

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

With full marks in the bench tests, there was even time for a little extra-curricular fun.

107

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

One.

108

00:06:13,000 --> 00:06:16,000

With some old-school hairspray.

109

00:06:16,000 --> 00:06:17,000

Ah!

110

00:06:17,000 --> 00:06:21,000

Please read the label as hairspray is flammable.

111

00:06:21,000 --> 00:06:25,000

Leave endangering yourself and your hair to the mythbusters.

112

00:06:25,000 --> 00:06:32,000

Sounds like all you need to do now is bump it to the full scale to see if you can get a full-scale explosion and or a decapitation.

113

00:06:32,000 --> 00:06:36,000

Yeah, you need to recreate the conditions in a fighter cock that I guess that altitude.

114

00:06:36,000 --> 00:06:41,000

To recreate cabin conditions, Tari tackles the question of cockpit volume.

115

00:06:41,000 --> 00:06:43,000

The math stuff's hard.

116

00:06:43,000 --> 00:06:49,000

For help, he visits the Hiller Aviation Museum, where he finds a model of a USA4.

117

00:06:49,000 --> 00:06:56,000

The A4 has an almost identical cockpit setup to the Canadian starfighter of this myth.

118

00:06:56,000 --> 00:07:02,000

It's probably a lot easier to measure from the outside, but it's a lot funner to measure from the inside.

119

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

Tari has all the data he needs.

120

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

Now to work out how to build his own fighter from junk lying around the yard.

121

00:07:10,000 --> 00:07:12,000

I think I found my cockpit.

122

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

The Charama.

123

00:07:14,000 --> 00:07:16,000

One previous conviction.

124

00:07:16,000 --> 00:07:19,000

Last seen on Shark Week in a Ram Rain.

125

00:07:19,000 --> 00:07:27,000

While Tari is cutting out the canopy of the cockpit, the rest of the team get busy turning this shark into a jet.

126

00:07:27,000 --> 00:07:33,000

Grant focuses on recreating cabin conditions of an F-104 at 30,000 feet.

127

00:07:33,000 --> 00:07:40,000

He rigs inlets for oxygen to the pilot and regular air to pressurize the vessel to 5 psi.

128

00:07:40,000 --> 00:07:47,000

Using real hair from the local barber shop, Tari makes some toupees for the Canadian pilot Flambé.

129

00:07:47,000 --> 00:07:52,000

Hey, if the bus didn't work out for you, you could go into the toupee making business.

130

00:07:52,000 --> 00:07:56,000

And you can't have decapitation without a head.

131

00:07:56,000 --> 00:07:58,000

Kiss me, kiss me.

132

00:07:58,000 --> 00:08:03,000

This is the helmet they would have worn in a F-104 Starfighter.

133

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

Oh, look at that.

134

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

Look at the eagle.

135

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

That is badass.

136

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

That is so hot.

137

00:08:12,000 --> 00:08:17,000

The working face mask and helmet gives this myth the seal of authenticity.

138

00:08:17,000 --> 00:08:19,000

Tiny headed Canadians.

139

00:08:19,000 --> 00:08:25,000

Plus Adam will have to try it on and there'll be an all too brief moment of silence.

140

00:08:26,000 --> 00:08:30,000

Okay, I can't move on his face.

141

00:08:30,000 --> 00:08:33,000

This right here would have been the pilot's microphone.

142

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

Grant believes the most likely ignition source was a short circuit from the 24 volt intercom.

143

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

So he rigs his ignition system from the small scale tests to the face mask.

144

00:08:43,000 --> 00:08:47,000

And plan B is the trusty model rocket igniter.

145

00:08:49,000 --> 00:08:53,000

Back up headgear will be this full faced Russian MiG helmet.

146

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

First, they'll check the airtight neck seal.

147

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

Oh my God.

148

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

Yep, that works.

149

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

Alright, you're ready to take off.

150

00:09:02,000 --> 00:09:04,000

Now to get it off.

151

00:09:04,000 --> 00:09:06,000

Got me to hit your face.

152

00:09:17,000 --> 00:09:18,000

No problem bro.

153

00:09:18,000 --> 00:09:20,000

That was easy.

154

00:09:20,000 --> 00:09:22,000

That's a cure.

155

00:09:24,000 --> 00:09:26,000

That sucks.

156

00:09:29,000 --> 00:09:37,000

In the Temple of Doom, Indiana Jones with desperate ingenuity that wouldn't look out of place in an episode of Mythbusters

157

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

uses a life raft as a parachute.

158

00:09:41,000 --> 00:09:46,000

To test this Hollywood stunt, evacuation equipment is at the top of the shopping list.

159

00:09:46,000 --> 00:09:49,000

And for that, expert Rick Dixon is the man.

160

00:09:49,000 --> 00:09:55,000

Although his prediction for the upcoming raft ride is probably best kept from Buster.

161

00:09:55,000 --> 00:09:56,000

I don't feel it.

162

00:09:56,000 --> 00:09:59,000

I think Buster's going to have a real bad fall on this thing.

163

00:09:59,000 --> 00:10:03,000

I think it's going to flop down like a nickel twirly.

164

00:10:03,000 --> 00:10:04,000

Oh, like it's going to tumble.

165

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

I think so, yeah.

166

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

Oh, that would be bad.

167

00:10:07,000 --> 00:10:11,000

There are two major pieces of evacuation equipment.

168

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

So two drops are planned.

169

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

Drop two and Buster will be hanging from an escape slide.

170

00:10:17,000 --> 00:10:24,000

Drop one and he'll be doing his best Indiana Jones impression by attempting a life raft ride to Earth.

171

00:10:25,000 --> 00:10:30,000

With this surplus raft ready to go, Danny talks the boys through the inflation.

172

00:10:31,000 --> 00:10:32,000

So that's it.

173

00:10:32,000 --> 00:10:34,000

Well, that's your raft.

174

00:10:34,000 --> 00:10:35,000

That's our raft.

175

00:10:35,000 --> 00:10:36,000

How big is this thing going to be?

176

00:10:36,000 --> 00:10:38,000

Well, it's a 46 person raft.

177

00:10:38,000 --> 00:10:40,000

It's going to be 46 person.

178

00:10:40,000 --> 00:10:41,000

46 person.

179

00:10:41,000 --> 00:10:44,000

It'll probably be about 25 feet in diameter.

180

00:10:44,000 --> 00:10:46,000

So is this the thing you're yank on here?

181

00:10:46,000 --> 00:10:48,000

Well, that's...

182

00:10:48,000 --> 00:10:55,000

With premature inflation gags like that, Jamie's position as safety officer could be under review.

183

00:10:55,000 --> 00:10:58,000

Can I stand on top of it when it goes?

184

00:10:58,000 --> 00:10:59,000

Yeah, you can.

185

00:10:59,000 --> 00:11:01,000

But then the alternative is Adam.

186

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

Pull the string.

187

00:11:03,000 --> 00:11:05,000

Pull the string.

188

00:11:10,000 --> 00:11:21,000

It's got a manual.

189

00:11:21,000 --> 00:11:25,000

That's amazing.

190

00:11:25,000 --> 00:11:30,000

Okay, so Buster has his ride, but how's he going to hang on?

191

00:11:30,000 --> 00:11:35,000

I say we stick Buster right here and diaper him in.

192

00:11:35,000 --> 00:11:36,000

Sure.

193

00:11:36,000 --> 00:11:37,000

Just tie him right in.

194

00:11:37,000 --> 00:11:38,000

There's nothing else we need to do.

195

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

We're going to rig up some lines to the, you know, the corners of this thing.

196

00:11:43,000 --> 00:11:45,000

He's sitting right next to the raft manual.

197

00:11:45,000 --> 00:11:47,000

He can read it on the way down.

198

00:11:47,000 --> 00:11:53,000

Next, the survival kit, but it's past its sell-by date, and the die marker is already deployed.

199

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

This is not as thrilling as I had hoped.

200

00:11:55,000 --> 00:11:58,000

We've got bandages in first aid.

201

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

Coffee flavor stimulates.

202

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

I'm going to eat as many of these as I can get.

203

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

Look at that.

204

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

Can we set this up?

205

00:12:10,000 --> 00:12:15,000

It's kind of like Christmas.

206

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

Oh, and it's green liquid.

207

00:12:20,000 --> 00:12:24,000

It seems to be made of alien blood.

208

00:12:24,000 --> 00:12:26,000

Why did green liquid come out?

209

00:12:26,000 --> 00:12:30,000

Did you just drink that?

210

00:12:30,000 --> 00:12:32,000

That's the die.

211

00:12:32,000 --> 00:12:37,000

This looks like a bad episode of ER here.

212

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

We've just performed an emergency cesarean.

213

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

Any more of those coffee tablets?

214

00:12:43,000 --> 00:12:45,000

All of a sudden, they're going to be addicted to these.

215

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

Here we go.

216

00:12:49,000 --> 00:12:55,000

Buster's going to be smacking the center of this raft, which is exactly the way we've seen it in movies.

217

00:12:55,000 --> 00:12:58,000

And he's sort of riding it down just like he would normally ride in the raft.

218

00:12:58,000 --> 00:13:02,000

And in the yellow corner, Indiana Buster.

219

00:13:02,000 --> 00:13:05,000

It's time for round one.

220

00:13:05,000 --> 00:13:08,000

This is one of those myths. I have no idea what's going to happen.

221

00:13:08,000 --> 00:13:16,000

Really. I mean, it may turn out that he stays totally stable and floats all the way to the ground

222

00:13:16,000 --> 00:13:20,000

and is cushioned in his fall and like it's a totally reasonable way to go.

223

00:13:20,000 --> 00:13:27,000

More likely though, is that he spins like a coin on the way down and lands in a total horror show.

224

00:13:27,000 --> 00:13:35,000

With Adam set for his virgin chopper ride, the big dog, or Sikorsky S58, fires up.

225

00:13:43,000 --> 00:13:48,000

The raft is attached and stage one is complete.

226

00:13:48,000 --> 00:13:55,000

Stage two, with raft and Buster heading for the drop height of 2,000 feet, everything is looking

good.

227

00:13:55,000 --> 00:14:04,000

But then, disaster. At only 400 feet, the rigging gives way, shortly followed by Buster.

228

00:14:08,000 --> 00:14:12,000

Did you see the explosion? It was like a splash of water.

229

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

Small crash test dummies, friends and family of Buster may find the following pictures disturbing.

230

00:14:19,000 --> 00:14:26,000

Oh, that's part of his skull.

231

00:14:29,000 --> 00:14:33,000

And snapped his spine.

232

00:14:35,000 --> 00:14:37,000

Where's the black box?

233

00:14:38,000 --> 00:14:42,000

Oh, here. That's the head accelerometer.

234

00:14:42,000 --> 00:14:44,000

Which is toast.

235

00:14:44,000 --> 00:14:46,000

How bad is it?

236

00:14:46,000 --> 00:14:47,000

Real bad.

237

00:14:47,000 --> 00:14:48,000

Oh my god.

238

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

Adam arrives and he's in a genuine state of shock.

239

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

Oh my god.

240

00:14:57,000 --> 00:14:59,000

Oh, criminous.

241

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

Criminous? So shocked he makes up a new word.

242

00:15:02,000 --> 00:15:05,000

Buster is a pile of scrap.

243

00:15:05,000 --> 00:15:09,000

I'm thinking of calling the local fire department to find out if they have any simulades.

244

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

With carnage worthy of the bloodiest Hollywood blockbuster, this myth has to be in doubt.

245

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

Despite what appeared to be a secure rig, Buster couldn't hold on.

246

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

Guys, it gives you an idea how severe that impact was. Even the silicone has run.

247

00:15:27,000 --> 00:15:28,000

Wow.

248

00:15:28,000 --> 00:15:30,000

Along with all the instrumentation.

249

00:15:30,000 --> 00:15:37,000

With Buster's aluminum head in a thousand pieces, the accelerometer inside was completely destroyed.

250

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

That speaks volumes about how non-survivable even a few hundred foot drop is.

251

00:15:42,000 --> 00:15:48,000

The ropes that we use to tie this thing together, including the tie points that we tied to, ripped.

252

00:15:48,000 --> 00:15:50,000

They're just, we're a number of rips.

253

00:15:50,000 --> 00:15:56,000

And these are things that are probably have a load rating of several hundred pounds each one.

254

00:15:56,000 --> 00:16:00,000

And we had half a dozen lines tied in various places.

255

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

Meanwhile, in surgery, it turns out that he broke every bone in his body.

256

00:16:06,000 --> 00:16:10,000

This is without a doubt the worst damage Buster has ever sustained.

257

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

Round two. And Jamie doesn't want another rigging failure.

258

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

This time we have some big hauling straps.

259

00:16:18,000 --> 00:16:25,000

So we've got two straps that are not going to break basically. They could pick up the whole aircraft.

260

00:16:25,000 --> 00:16:31,000

Dr. Savage and his team have achieved an engineering miracle and resurrected a shattered Buster.

261

00:16:31,000 --> 00:16:39,000

They've replaced all his bones, given him a new set of shock watches and transplanted his head with a new accelerometer.

262

00:16:40,000 --> 00:16:43,000

I'm going to break some environmental laws when I shower tonight.

263

00:16:45,000 --> 00:16:46,000

Bye Buster.

264

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

Good job.

265

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

Go over.

266

00:17:08,000 --> 00:17:12,000

Buster appears to be detached, but he's still in the wrapped over.

267

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

They're in 2000.

268

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

Okay, whenever you're over the target, over.

269

00:17:20,000 --> 00:17:23,000

Guys get ready. They're about ready to drop over.

270

00:17:23,000 --> 00:17:25,000

Go ahead and drop on your mark over.

271

00:17:26,000 --> 00:17:28,000

Drifting back towards us.

272

00:17:28,000 --> 00:17:30,000

Let's get near the truck.

273

00:17:32,000 --> 00:17:34,000

And we should be really good guys.

274

00:17:34,000 --> 00:17:40,000

He's going to release right now, so you need to aim it right where it's going to go.

275

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

It's going down guys. Take cover.

276

00:17:45,000 --> 00:17:48,000

Oh no. He flipped over.

277

00:17:48,000 --> 00:17:55,000

Like Adam predicted, the raft has flipped like a coin, and Buster has a premature ejection problem.

278

00:17:55,000 --> 00:18:03,000

The raft clocked in at 22 miles per hour. Buster on the other hand clocked in at 154.

279

00:18:03,000 --> 00:18:07,000

After two failed drops, they have some useful information.

280

00:18:07,000 --> 00:18:13,000

The myth depends on the comparative fall speeds of Buster with and without a makeshift parachute.

281

00:18:15,000 --> 00:18:19,000

Now the team knows how fast he falls on his own.

282

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

Well, it looks like we found everything but the hand and the black box.

283

00:18:23,000 --> 00:18:28,000

That is affirmative. We have a whole forearm and a hand over here on the raft over.

284

00:18:28,000 --> 00:18:31,000

The same or worse. Actually not as bad as last time.

285

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

I think it's clear that the raft actually would have slowed him down a great deal.

286

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

You know, the raft came down just beautifully by itself like a parachute.

287

00:18:40,000 --> 00:18:45,000

And typically parachutists land safely at 14 miles per hour.

288

00:18:45,000 --> 00:18:50,000

I think it's worth pursuing this again because that raft is really just like a parachute.

289

00:18:50,000 --> 00:18:54,000

That's the way it looked on the last fall even though Buster wasn't attached to it.

290

00:18:54,000 --> 00:18:58,000

So this time we're going to actually try and make it behave like a parachute.

291

00:18:58,000 --> 00:19:02,000

And we're going to tie Buster onto the underside of it and see what it does.

292

00:19:04,000 --> 00:19:12,000

Back at the shop, the build team are asking could a dapper pilot's hair cream explode when exposed to oxygen and a spark?

293

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

To test this combustible myth, the team has built a pressure vessel the same volume as an F-104 cockpit.

294

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

And with the hard work already done, Adam arrives.

295

00:19:25,000 --> 00:19:26,000

That thing is magnificent.

296

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

Do you feel like you're in Canada?

297

00:19:28,000 --> 00:19:31,000

Would you like to meet the pilot?

298

00:19:31,000 --> 00:19:32,000

Yes, by all means.

299

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

It's you!

300

00:19:37,000 --> 00:19:38,000

Oh my God.

301

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

And this is hair from 70 Guys.

302

00:19:43,000 --> 00:19:45,000

Hold up, babes.

303

00:19:45,000 --> 00:19:51,000

While Adam enjoys a full head of hair, Tari gets to work sealing the open end of the cockpit.

304

00:19:54,000 --> 00:19:58,000

With only the canopy to be sealed, the team run through the test protocol.

305

00:19:59,000 --> 00:20:05,000

Test number one, the conditions are using our equivalent cubic footage cockpit here.

306

00:20:05,000 --> 00:20:07,000

Hero two, going into the face mask.

307

00:20:07,000 --> 00:20:09,000

I'm very excited about this experiment.

308

00:20:09,000 --> 00:20:13,000

We're going to pressurize the cockpit up to a correct pressure of 5 psi.

309

00:20:13,000 --> 00:20:19,000

Whenever we're doing an experiment with fire and explosive elements, I love it.

310

00:20:19,000 --> 00:20:23,000

And the rest of the cabin is going to be pressurized with regular air.

311

00:20:23,000 --> 00:20:31,000

What I am concerned about is I've been given the job to extinguish fires and I'm just trying to figure out like whose idea that was.

312

00:20:32,000 --> 00:20:41,000

Grant takes care of the oxygen supply to the face mask and the ignition system to simulate an intercom short circuit, while Kari goes heavy on the hair cream.

313

00:20:41,000 --> 00:20:42,000

No more.

314

00:20:42,000 --> 00:20:44,000

He could be a greaser.

315

00:20:48,000 --> 00:20:49,000

Alright, sealer up boys.

316

00:20:49,000 --> 00:21:01,000

I need a pair of vice grips.

317

00:21:05,000 --> 00:21:12,000

Ignoring the potential hazards of dealing with the pressure vessel, the team take off on test one.

318

00:21:13,000 --> 00:21:16,000

It's probably coming out of all the screw holes.

319

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

Well, we're going up one and a half pounds.

320

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

We may be beginning away from this thing.

321

00:21:22,000 --> 00:21:23,000

No.

322

00:21:23,000 --> 00:21:24,000

Okay.

323

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

Well, I like danger.

324

00:21:25,000 --> 00:21:27,000

I can definitely hear it coming out of there.

325

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

Rule three and a half.

326

00:21:28,000 --> 00:21:30,000

Can you start the O2?

327

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

Can we get behind the glass shield or does it matter?

328

00:21:33,000 --> 00:21:35,000

Well, it is a pressure vessel.

329

00:21:35,000 --> 00:21:41,000

I mean, given the surface area, there might be, I don't know, a thousand pounds pushing out on it.

330

00:21:41,000 --> 00:21:42,000

Yeah.

331

00:21:42,000 --> 00:21:43,000

That five psi.

332

00:21:43,000 --> 00:21:45,000

Same thing with that back there.

333

00:21:45,000 --> 00:21:49,000

I would say everybody walk around that side, the welded side.

334

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

Oh, yeah, don't.

335

00:21:51,000 --> 00:21:53,000

Oh, that's fine.

336

00:21:53,000 --> 00:21:59,000

See, dude, you just, you barely missed disaster.

337

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

Wow.

338

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

With that potential for explosive decompression, this test, its safety protocol, and whether it goes ahead, will have to be reviewed.

339

00:22:09,000 --> 00:22:14,000

Well, we got an explosion.

340

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

This was not the explosion we were looking for, but we got one.

341

00:22:20,000 --> 00:22:26,000

In the myth life raft parachute, Buster found out how terminal velocity can be.

342

00:22:26,000 --> 00:22:31,000

We have a whole forearm and a hand over here on the raft over.

343

00:22:31,000 --> 00:22:38,000

But on the operating table, Adam and Grant resurrect Buster from his fatal fall.

344

00:22:38,000 --> 00:22:41,000

In zone three.

345

00:22:41,000 --> 00:22:47,000

And with Buster having failed to ride the raft like Indiana Jones, Jamie rigs it as a parachute.

346

00:22:47,000 --> 00:22:50,000

She's going to give a little extra and lay some a couple of places.

347

00:22:50,000 --> 00:22:53,000

I'm tired of Buster taking off on me.

348

00:22:53,000 --> 00:22:58,000

This ass is hanging out.

349

00:22:58,000 --> 00:23:03,000

Wow.

350

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

Look at that.

351

00:23:06,000 --> 00:23:08,000

It's got to work this time.

352

00:23:08,000 --> 00:23:11,000

I think this is last words.

353

00:23:11,000 --> 00:23:13,000

Fucking good so far, Steve.

354

00:23:13,000 --> 00:23:16,000

He is taking his time, so he doesn't rip the thing.

355

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

I'm going to favor the upwind side of the axle a little bit, over.

356

00:23:20,000 --> 00:23:24,000

You guys make sure you can get under that truck and hurry, over.

357

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

Okay Steve, I'd say go ahead and release at will.

358

00:23:28,000 --> 00:23:30,000

You look good, over.

359

00:23:30,000 --> 00:23:33,000

Okay, he's releasing guys.

360

00:23:33,000 --> 00:23:36,000

It's going.

361

00:23:36,000 --> 00:23:38,000

It's going.

362

00:23:38,000 --> 00:23:40,000

Ah, it's beautiful.

363

00:23:40,000 --> 00:23:42,000

Ah, it's beautiful.

364

00:23:42,000 --> 00:23:46,000

Be careful all the people who speak too soon.

365

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

Look at that.

366

00:23:48,000 --> 00:23:50,000

Woo.

367

00:23:50,000 --> 00:23:52,000

It's not over yet.

368

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

I know.

369

00:23:54,000 --> 00:23:56,000

Come on, Buster.

370

00:23:56,000 --> 00:23:59,000

Look at those little entry ramps are like wings, you know.

371

00:23:59,000 --> 00:24:02,000

Ah, that's great.

372

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

Buster's on the ground.

373

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

Buster's on the ground.

374

00:24:06,000 --> 00:24:08,000

Buster's on the ground.

375

00:24:08,000 --> 00:24:11,000

Well, that looked like a much nicer ride.

376

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

I'll hazard a guess that Buster may well be intact this time entirely.

377

00:24:15,000 --> 00:24:18,000

But appearances can be deceptive.

378

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

Buster has once again sustained some severe damage.

379

00:24:21,000 --> 00:24:23,000

But would he have survived?

380

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

All of the 50G shock watches broke on all of his limbs,

381

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

but in his chest the 75 and the 100 did not get tripped.

382

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

So that means that he got all busted up.

383

00:24:32,000 --> 00:24:35,000

He would not be a happy camper, but he would not be a happy camper.

384

00:24:35,000 --> 00:24:39,000

If you could have leaped out of the airplane with this raft,

385

00:24:39,000 --> 00:24:42,000

inflated it in midair, rigged four points to it,

386

00:24:42,000 --> 00:24:45,000

so you could hang from it like a parachute,

387

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

you might just might survive.

388

00:24:49,000 --> 00:24:52,000

But all the other aspects of this are so unrealistic,

389

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

the odds of you being able to achieve this rig while falling out of a plane

390

00:24:57,000 --> 00:25:00,000

are so unlikeliest to be almost ludicrous.

391

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

This myth has a busted look about it.

392

00:25:03,000 --> 00:25:06,000

But the boys decide to give it another go.

393

00:25:06,000 --> 00:25:09,000

Next, they'll test Buster on the escape slide.

394

00:25:09,000 --> 00:25:10,000

How you doing, Adam?

395

00:25:10,000 --> 00:25:11,000

I'm doing great, Jamie.

396

00:25:11,000 --> 00:25:14,000

Not doing a lot for the cause, but you know, it looked good,

397

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

and that's really important.

398

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

Hey, so this is what it's like to be in one of those parades, right?

399

00:25:20,000 --> 00:25:21,000

Ha ha ha ha!

400

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

With the first, the boys are going to be going to the next round.

401

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

Ha ha ha!

402

00:25:29,000 --> 00:25:33,000

With the first exploding hair cream test ending in near disaster,

403

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

the team calls for a supervising adult.

404

00:25:38,000 --> 00:25:40,000

You barely missed disaster!

405

00:25:40,000 --> 00:25:43,000

At MythBusters, this could only mean one thing.

406

00:25:43,000 --> 00:25:44,000

Jamie.

407

00:25:44,000 --> 00:25:47,000

My impression at this point is it's anybody's guess

408

00:25:47,000 --> 00:25:49,000

whether this is going to continue to happen.

409

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

If I were to bet on it, I'd say we're going to continue to have

410

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

either leaks or further explosions with this.

411

00:25:56,000 --> 00:25:59,000

Jamie lays down the law and the team gets busy.

412

00:25:59,000 --> 00:26:02,000

Tori replugs the blown cockpit,

413

00:26:02,000 --> 00:26:05,000

and all systems and triggers are extended,

414

00:26:05,000 --> 00:26:08,000

including the fire extinguisher that will inject CO2

415

00:26:08,000 --> 00:26:10,000

quelling any cockpit fires.

416

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

I'm out of the tape, bitch.

417

00:26:12,000 --> 00:26:14,000

I don't need any more, bitch.

418

00:26:14,000 --> 00:26:17,000

Is it all together? Looks good.

419

00:26:17,000 --> 00:26:19,000

Ha ha ha ha ha!

420

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

Oh, that's very nice. How come Jamie gets top-gill?

421

00:26:22,000 --> 00:26:23,000

What the hell is that?

422

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

With Adam speaking to the producer about a bigger trailer,

423

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

preparations are complete.

424

00:26:28,000 --> 00:26:30,000

Time for Test 1, Take 2.

425

00:26:30,000 --> 00:26:32,000

So I'm starting to pressurize.

426

00:26:32,000 --> 00:26:35,000

With the pressure gauge having to remain in the no-go zone,

427

00:26:35,000 --> 00:26:38,000

Adam uses the scope from the shop gun

428

00:26:38,000 --> 00:26:41,000

to keep his eyes at a safe distance.

429

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

We've got a major leak somewhere.

430

00:26:43,000 --> 00:26:45,000

The air's still flowing, Adam.

431

00:26:45,000 --> 00:26:48,000

Can you hear past the air plugs?

432

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

What's that?

433

00:26:49,000 --> 00:26:51,000

Can you hear past the air plugs?

434

00:26:51,000 --> 00:26:53,000

No, of course not.

435

00:26:53,000 --> 00:26:57,000

Well, the air is off.

436

00:26:57,000 --> 00:27:00,000

Blissfully unaware of Jamie's instructions,

437

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

Adam tracks down the leaks,

438

00:27:02,000 --> 00:27:06,000

and with his trusty screw gun, nails them.

439

00:27:06,000 --> 00:27:08,000

Still climbing.

440

00:27:08,000 --> 00:27:10,000

It's going up quicker.

441

00:27:10,000 --> 00:27:12,000

Coming up on four.

442

00:27:12,000 --> 00:27:13,000

You're at five.

443

00:27:13,000 --> 00:27:15,000

Okay, carry. Start air. Oxygen flow.

444

00:27:15,000 --> 00:27:17,000

Initiating oxygen.

445

00:27:18,000 --> 00:27:20,000

Five.

446

00:27:20,000 --> 00:27:23,000

After five minutes of oxygen to the mask,

447

00:27:23,000 --> 00:27:26,000

Grant is ready to short-circuit our pilot's

448

00:27:26,000 --> 00:27:28,000

hair cream cocktail.

449

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

Five minutes of oxygen flow. Go ahead and spark.

450

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

This will be an electrical spark,

451

00:27:32,000 --> 00:27:34,000

our primary ignition.

452

00:27:34,000 --> 00:27:36,000

Stand by.

453

00:27:36,000 --> 00:27:38,000

Sparking in three,

454

00:27:38,000 --> 00:27:40,000

two, one.

455

00:27:40,000 --> 00:27:42,000

Spark.

456

00:27:43,000 --> 00:27:46,000

Is that the sound of a busted myth?

457

00:27:46,000 --> 00:27:49,000

With no ignition from the short-circuit,

458

00:27:49,000 --> 00:27:51,000

time for backup.

459

00:27:51,000 --> 00:27:53,000

This is the model rocket igniter.

460

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

In three, two, one.

461

00:27:58,000 --> 00:28:00,000

Big ol' nada.

462

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

Woo!

463

00:28:01,000 --> 00:28:03,000

That was thrilling.

464

00:28:03,000 --> 00:28:05,000

Smoke coming out of the mask.

465

00:28:05,000 --> 00:28:07,000

Kill the arm too.

466

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

Deep pressurizing.

467

00:28:12,000 --> 00:28:15,000

The CO2 from Tari's fire extinguisher

468

00:28:15,000 --> 00:28:18,000

has unexpectedly doubled the cockpit pressure

469

00:28:18,000 --> 00:28:20,000

to a dangerous level.

470

00:28:20,000 --> 00:28:22,000

Stay behind the barrier.

471

00:28:24,000 --> 00:28:27,000

Pressure's dropping to nine and a half.

472

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

I feel like I'm on a submarine.

473

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

It's frightening.

474

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

We're 1600 feet in dropping, captain.

475

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

That was exciting.

476

00:28:36,000 --> 00:28:38,000

In a life-threatening sort of way.

477

00:28:38,000 --> 00:28:40,000

That's amazing. We got a result out of that.

478

00:28:40,000 --> 00:28:42,000

I'm totally impressed.

479

00:28:42,000 --> 00:28:44,000

To be honest, I didn't think anything was going to happen.

480

00:28:44,000 --> 00:28:46,000

I'm really excited that we got a fire.

481

00:28:46,000 --> 00:28:49,000

And then when I hit the CO2 to put out the fire,

482

00:28:49,000 --> 00:28:52,000

the pressure built and we started the leaking air in it.

483

00:28:52,000 --> 00:28:56,000

The PSI of the whole thing went up to like 10 PSI.

484

00:28:56,000 --> 00:28:58,000

So that was a little exciting.

485

00:28:58,000 --> 00:28:59,000

No explosion, though.

486

00:28:59,000 --> 00:29:03,000

No explosion, but under accurate cockpit conditions,

487

00:29:03,000 --> 00:29:06,000

the mythbusters did get our pilot hot under the helmet.

488

00:29:06,000 --> 00:29:10,000

It seems this myth could be plausible.

489

00:29:10,000 --> 00:29:12,000

I've got gloves on.

490

00:29:12,000 --> 00:29:14,000

Oh my god, it's just in case it's hot.

491

00:29:14,000 --> 00:29:15,000

Look at his face.

492

00:29:15,000 --> 00:29:16,000

Whoa.

493

00:29:17,000 --> 00:29:18,000

Now.

494

00:29:20,000 --> 00:29:21,000

Oh!

495

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

Well, that's going to cause a bit of a problem.

496

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

It melted his lips and nose off.

497

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

Oh my god.

498

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

Oh my god, that happens.

499

00:29:28,000 --> 00:29:30,000

This is what's left of the O2 system.

500

00:29:30,000 --> 00:29:32,000

Dude, you know, there's been a bunch of cases

501

00:29:32,000 --> 00:29:34,000

that involve elements close to this myth.

502

00:29:34,000 --> 00:29:37,000

In the early 90s, a pilot getting into his jet

503

00:29:37,000 --> 00:29:40,000

on an aircraft carrier put on his oxygen mask

504

00:29:40,000 --> 00:29:43,000

and apparently his hair cream reacted with the oxygen,

505

00:29:43,000 --> 00:29:47,000

blew his helmet off of his head and gave him third degree burns.

506

00:29:47,000 --> 00:29:49,000

The most famous one of them all, of course,

507

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

was the Apollo 1 incident.

508

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

Apollo astronauts Roger Chaffee, Edward White and Gus Grissom

509

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

lose their lives in a tragic flash fire

510

00:30:01,000 --> 00:30:03,000

aboard their grounded space capsule.

511

00:30:03,000 --> 00:30:09,000

Faulty wiring and a pure oxygen environment caused a flash fire.

512

00:30:09,000 --> 00:30:13,000

And unfortunately, due to the fact that the cabin was pressurized

513

00:30:13,000 --> 00:30:17,000

and the door opened inward, the astronauts were unable to escape.

514

00:30:20,000 --> 00:30:21,000

Come on.

515

00:30:21,000 --> 00:30:22,000

Round four.

516

00:30:23,000 --> 00:30:28,000

Adam's opponent and Buster's new ride is a DC-10 escape slide.

517

00:30:33,000 --> 00:30:35,000

That's the coolest thing ever!

518

00:30:36,000 --> 00:30:39,000

Adam celebrates with more coffee tablets.

519

00:30:39,000 --> 00:30:43,000

And like Tigger, he does his best thinking while bouncing.

520

00:30:43,000 --> 00:30:46,000

Alright, so we gotta figure out where to put Buster in here.

521

00:30:46,000 --> 00:30:48,000

They decide on a rig with a view.

522

00:30:48,000 --> 00:30:49,000

He'll be like this.

523

00:30:50,000 --> 00:30:52,000

Oh my God!

524

00:30:52,000 --> 00:30:53,000

Like that.

525

00:30:53,000 --> 00:30:56,000

After three drops with a life raft

526

00:30:56,000 --> 00:30:58,000

and a better understanding of the forces at work,

527

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

Jamie and Adam make short work of the escape slide rig.

528

00:31:02,000 --> 00:31:03,000

Chopper ready to go?

529

00:31:03,000 --> 00:31:06,000

Buster, you are cleared for takeoff.

530

00:31:06,000 --> 00:31:08,000

We should all be clear, like,

531

00:31:08,000 --> 00:31:10,000

and be aware of the winds blowing this thing this way

532

00:31:10,000 --> 00:31:12,000

once it starts to do lift off.

533

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

Winds increasing, so you guys be ready to duck and cover.

534

00:31:33,000 --> 00:31:34,000

2,000 feet.

535

00:31:34,000 --> 00:31:38,000

Okay, he said 2,000 feet, guys, so be ready to drop a coming down.

536

00:31:42,000 --> 00:31:43,000

And the drop has happened.

537

00:31:44,000 --> 00:31:46,000

Oh, look at sailing.

538

00:31:46,000 --> 00:31:47,000

Wow.

539

00:31:47,000 --> 00:31:48,000

So far.

540

00:31:48,000 --> 00:31:50,000

I've made a flip, so it's looking like it's wanting to.

541

00:31:51,000 --> 00:31:53,000

Tell the guys to watch out at me.

542

00:31:53,000 --> 00:31:55,000

Watch yourselves, guys.

543

00:31:57,000 --> 00:31:58,000

Wow!

544

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

That is incredible.

545

00:32:01,000 --> 00:32:03,000

Oh, damn.

546

00:32:03,000 --> 00:32:04,000

What?

547

00:32:04,000 --> 00:32:07,000

It just looks like it wants to flip so bad any time now.

548

00:32:07,000 --> 00:32:08,000

I know.

549

00:32:08,000 --> 00:32:09,000

Oh!

550

00:32:15,000 --> 00:32:16,000

Wow!

551

00:32:16,000 --> 00:32:18,000

Just me, okay.

552

00:32:18,000 --> 00:32:20,000

I'm going to go back to the boat.

553

00:32:20,000 --> 00:32:22,000

I'm going to go back to the boat.

554

00:32:22,000 --> 00:32:24,000

I'm going to go back to the boat.

555

00:32:24,000 --> 00:32:26,000

I'm going to go back to the boat.

556

00:32:26,000 --> 00:32:28,000

Just me, okay.

557

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

I reckon I might almost be willing to take that ride.

558

00:32:31,000 --> 00:32:33,000

That looked incredibly gentle.

559

00:32:33,000 --> 00:32:36,000

I got to peak the 42, it's rocking back and forth.

560

00:32:36,000 --> 00:32:37,000

Yeah.

561

00:32:37,000 --> 00:32:40,000

Mostly about in the 2020 range.

562

00:32:41,000 --> 00:32:47,000

Once again, Grant's reliable radar gun was the only device to measure Buster's final velocity.

563

00:32:48,000 --> 00:32:50,000

But it's crunched on.

564

00:32:50,000 --> 00:32:52,000

Is there any life in this Hollywood myth?

565

00:32:52,000 --> 00:32:54,000

I don't see any damage at all.

566

00:32:54,000 --> 00:32:57,000

In fact, not a single bone is broken.

567

00:32:57,000 --> 00:32:59,000

Let's see his chest.

568

00:33:00,000 --> 00:33:02,000

Nope, it's clean.

569

00:33:02,000 --> 00:33:09,000

And the 50, 75 and 100G shock watches all remain intact.

570

00:33:09,000 --> 00:33:13,000

Well, it looks like Buster survived, so I'll be darned.

571

00:33:13,000 --> 00:33:15,000

But that looked really sweet.

572

00:33:15,000 --> 00:33:17,000

It looked like it would have been a lot of fun.

573

00:33:17,000 --> 00:33:21,000

Dude, it looked like it would be also the most terrifying ride in the world.

574

00:33:21,000 --> 00:33:24,000

Oh my God, no, no, no, no.

575

00:33:27,000 --> 00:33:32,000

With Buster in good health, it seems this fall was easily survivable.

576

00:33:32,000 --> 00:33:38,000

The slide not only slowed his fall, but also acted as a giant airbag on landing.

577

00:33:38,000 --> 00:33:41,000

It surprised the heck out of me with all the difficulty that we had earlier,

578

00:33:41,000 --> 00:33:43,000

but it worked like a charm.

579

00:33:43,000 --> 00:33:49,000

And, you know, outside of the obvious thing that we keep going against with this myth

580

00:33:49,000 --> 00:33:56,000

that you'll never get into one of these while an aircraft is going for 100 miles an hour or whatever.

581

00:33:56,000 --> 00:34:00,000

But if you did, that would be the way to do it.

582

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

So what do you think of those results?

583

00:34:02,000 --> 00:34:04,000

Well, that was a lot of fun.

584

00:34:04,000 --> 00:34:09,000

You know, in spite of what we thought, actually the life raft and the slide

585

00:34:09,000 --> 00:34:13,000

significantly reduced Buster's velocity.

586

00:34:13,000 --> 00:34:16,000

But you're not going to get that door open that's got the slide in it.

587

00:34:16,000 --> 00:34:19,000

The second you inflate it, it's going to rip right off the plane.

588

00:34:19,000 --> 00:34:22,000

If you inflate the raft inside the plane, there's no way you're getting it out the door.

589

00:34:22,000 --> 00:34:25,000

I mean, it's just every aspect of it, it's Buster.

590

00:34:25,000 --> 00:34:27,000

Okay, it's Buster.

591

00:34:31,000 --> 00:34:38,000

At the shop, Team Hair Cream gave their pilot wearing an authentic F-104 helmet, a headache.

592

00:34:38,000 --> 00:34:40,000

Well, that's going to cause a bit of a problem.

593

00:34:40,000 --> 00:34:44,000

But the myth specified explosive decapitation.

594

00:34:44,000 --> 00:34:49,000

The pilot can reset and carry, attempting to further fuel the hair cream cocktail,

595

00:34:49,000 --> 00:34:53,000

adds Jamie's facial hair to Adam's toupee.

596

00:34:53,000 --> 00:34:55,000

Is that the real hair from the dudes?

597

00:34:55,000 --> 00:34:57,000

Yeah, you bet dudes can.

598

00:34:57,000 --> 00:34:59,000

You know, Grant, I am.

599

00:34:59,000 --> 00:35:01,000

His long lost son.

600

00:35:01,000 --> 00:35:06,000

During the time in Korea, his long lost son shows up in the front door.

601

00:35:06,000 --> 00:35:10,000

For this test, the team go for the airtight MIG helmet.

602

00:35:10,000 --> 00:35:17,000

The theory is that the neck seal will contain the oxygen and create a bigger bang.

603

00:35:17,000 --> 00:35:21,000

Yeah, we're not going to pressurize it this time because the helmet's sealed.

604

00:35:21,000 --> 00:35:26,000

The first one is going to be the wire short on the camera side, right where the mustache is.

605

00:35:26,000 --> 00:35:27,000

Go!

606

00:35:27,000 --> 00:35:29,000

I think it's going to do it.

607

00:35:29,000 --> 00:35:31,000

I see a little smoke and a ray!

608

00:35:31,000 --> 00:35:34,000

It's blowing up! He's on fire!

609

00:35:34,000 --> 00:35:36,000

No wonder Carrie is excited.

610

00:35:36,000 --> 00:35:39,000

This test supports a key element of the myth.

611

00:35:39,000 --> 00:35:41,000

The oxygen carry.

612

00:35:41,000 --> 00:35:45,000

Ignition came from a simple 24 volt short circuit spark.

613

00:35:45,000 --> 00:35:47,000

Dude, that was a hell of a result!

614

00:35:47,000 --> 00:35:49,000

That was like, boom!

615

00:35:49,000 --> 00:35:51,000

And I saw the whole thing lift up.

616

00:35:51,000 --> 00:35:54,000

This reminds me of Jamie after a special party.

617

00:35:54,000 --> 00:35:59,000

But although the team frazzled the Canadians follicles, he kept his head.

618

00:35:59,000 --> 00:36:02,000

The time now is to go for the big explosion.

619

00:36:02,000 --> 00:36:06,000

So we're going to use only hair care products to attempt to fuel this explosion.

620

00:36:06,000 --> 00:36:13,000

And since a lot of hair care products have propellants and solvents and evaporants in them

621

00:36:13,000 --> 00:36:17,000

that are themselves flammable or even petroleum based,

622

00:36:17,000 --> 00:36:20,000

I think we're actually going to get quite a big boom.

623

00:36:20,000 --> 00:36:27,000

Please, whatever you do, do not attempt an explosive decapitation with hair care products at home.

624

00:36:27,000 --> 00:36:28,000

Let's get it home!

625

00:36:28,000 --> 00:36:30,000

You guys ready for this?

626

00:36:30,000 --> 00:36:31,000

Oh yeah.

627

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

In three, two, one!

628

00:36:37,000 --> 00:36:40,000

Okay, nothing's happening.

629

00:36:40,000 --> 00:36:42,000

Okay, back up igniter.

630

00:36:42,000 --> 00:36:44,000

I'm going to loosen my sphincter, okay?

631

00:36:46,000 --> 00:36:48,000

Three, two, one!

632

00:36:50,000 --> 00:36:52,000

Ha ha ha ha!

633

00:36:52,000 --> 00:36:54,000

Oh, here it goes!

634

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

Oh!

635

00:37:02,000 --> 00:37:04,000

Woo!

636

00:37:04,000 --> 00:37:06,000

Yeah!

637

00:37:06,000 --> 00:37:08,000

That was awesome!

638

00:37:08,000 --> 00:37:10,000

Finally!

639

00:37:14,000 --> 00:37:15,000

That was quite satisfying.

640

00:37:15,000 --> 00:37:18,000

Well, you guys did some good work on this myth.

641

00:37:18,000 --> 00:37:21,000

I really think it's solid. What conclusions did you come to?

642

00:37:21,000 --> 00:37:25,000

Well, amazingly, part of this myth was plausible.

643

00:37:25,000 --> 00:37:29,000

Hair cream in an oxygen rich environment, just like you'd find in a cockpit.

644

00:37:29,000 --> 00:37:34,000

And spark caused fire, not just fire, but aggressive fire.

645

00:37:34,000 --> 00:37:39,000

But by the strict definition of this myth, which is explosion and decapitation,

646

00:37:39,000 --> 00:37:42,000

we did not by any means achieve that.

647

00:37:42,000 --> 00:37:44,000

So I'm calling it busted.

648

00:37:44,000 --> 00:37:47,000

I would say like every myth we do, there's an element of truth to it,

649

00:37:47,000 --> 00:37:49,000

but it didn't meet the circumstances. It's busted.

650

00:37:49,000 --> 00:37:51,000

Busted.

651

00:37:52,000 --> 00:37:56,000

Oh, my God! This is not as okay.

652

00:37:56,000 --> 00:37:59,000

With the myth of the Hollywood life raft parachute busted,

653

00:37:59,000 --> 00:38:03,000

Adam and Jamie look into another aviation tall tale.

654

00:38:03,000 --> 00:38:08,000

The longest reported survived fall without a parachute.

655

00:38:08,000 --> 00:38:12,000

The story goes that a flight attendant was on a plane in which a bomb went off.

656

00:38:12,000 --> 00:38:16,000

And she survived the fall from 33,000 feet without a parachute.

657

00:38:16,000 --> 00:38:20,000

They found her on the ground still, but she was still in the plane.

658

00:38:20,000 --> 00:38:24,000

And she found her on the ground still, strapped into her flight attendant's seat

659

00:38:24,000 --> 00:38:26,000

in the wreckage of the rear of the plane.

660

00:38:26,000 --> 00:38:34,000

On the 26th of January, 1972, flight 364 to Zagreb exploded 33,000 feet

661

00:38:34,000 --> 00:38:37,000

over the present day Czech Republic.

662

00:38:37,000 --> 00:38:42,000

All the passengers perished, either in the blast or on impact with the ground.

663

00:38:42,000 --> 00:38:49,000

But reportedly there was one survivor, flight attendant, Vesna Vulevich.

664

00:38:49,000 --> 00:38:52,000

What's our plan? How are we going to pull this one off?

665

00:38:52,000 --> 00:38:55,000

Well, look around then. There's nothing but junk planes around here.

666

00:38:55,000 --> 00:39:00,000

I figure all we got to do is cut the tail section off one of these planes,

667

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

strap Buster right into the flight attendant's seat,

668

00:39:02,000 --> 00:39:05,000

and drop it from the same height as we're dropping a raft.

669

00:39:05,000 --> 00:39:09,000

To get started, the team used their only major clue.

670

00:39:09,000 --> 00:39:15,000

Vesna Vulevich was found strapped into the flight attendant's seat at the rear of the DC-9.

671

00:39:15,000 --> 00:39:21,000

And to test Buster falling in a wrecked plane, first job, wrecking a plane.

672

00:39:21,000 --> 00:39:24,000

There's her stewardess seat. That's terrific.

673

00:39:24,000 --> 00:39:31,000

The only issue now is a weight problem. With 3,500 pounds the limit, this plane is going on a diet.

674

00:39:31,000 --> 00:39:33,000

Well, shall we back the truck up and start cutting?

675

00:39:33,000 --> 00:39:35,000

Might as well get into it.

676

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

I think we know where our cut is, so let's just cut it, weigh it, and see where we stand.

677

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

Alright, choose your weapon.

678

00:39:46,000 --> 00:39:48,000

A crowbar.

679

00:39:48,000 --> 00:39:50,000

\$20.

680

00:39:50,000 --> 00:39:51,000

A screw gun.

681

00:39:51,000 --> 00:39:53,000

\$150.

682

00:39:53,000 --> 00:39:55,000

An abrasive circular saw.

683

00:39:55,000 --> 00:39:57,000

\$200.

684

00:39:57,000 --> 00:40:02,000

All day to play, cutting up a plane in the Mojave Desert Boneyard.

685

00:40:02,000 --> 00:40:04,000

Priceless.

686

00:40:04,000 --> 00:40:11,000

They're just marvels of engineering, and we got to see what somebody's done to build them.

687

00:40:16,000 --> 00:40:18,000

Look at all this crap.

688

00:40:19,000 --> 00:40:22,000

It's like they didn't want these things to fall apart.

689

00:40:32,000 --> 00:40:35,000

That seems to be it for the outer shell.

690

00:40:36,000 --> 00:40:41,000

Next, we're going to see us drag this thing free of its mother's body.

691

00:40:42,000 --> 00:40:47,000

Then we're going to hoist it up on a couple of chains in the scale and see how much it weighs.

692

00:40:47,000 --> 00:40:51,000

My guess for the weight of this thing is roughly 3,600 pounds.

693

00:40:51,000 --> 00:40:54,000

I think we're going to be a little bit over, but not much.

694

00:40:54,000 --> 00:40:55,000

Good guess, Adam.

695

00:40:55,000 --> 00:41:02,000

But as our crane operator hauls our hunk of fuselage onto the scales, the news is, clap!

696

00:41:02,000 --> 00:41:06,000

This section of the plane, as it is now, weighs about 6,000 pounds,

697

00:41:06,000 --> 00:41:11,000

which is about a third more than what we can handle on the chopper.

698

00:41:11,000 --> 00:41:14,000

So we've actually got a lot more work to do.

699

00:41:15,000 --> 00:41:17,000

It's time for a crash diet.

700

00:41:17,000 --> 00:41:23,000

Adam gets stuck in, removing as much excess baggage as he can get his hands on,

701

00:41:23,000 --> 00:41:26,000

while Jamie gets the crappy jobs.

702

00:41:27,000 --> 00:41:28,000

Hey, Adam!

703

00:41:28,000 --> 00:41:29,000

Yeah?

704

00:41:29,000 --> 00:41:31,000

I brought you presents.

705

00:41:33,000 --> 00:41:34,000

Wow!

706

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

They've removed all the crap, but still need to lighten the load substantially.

707

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

Time for another cut.

708

00:41:44,000 --> 00:41:45,000

Come on!

709

00:41:45,000 --> 00:41:46,000

Yeah!

710

00:41:47,000 --> 00:41:50,000

Is there any way to end the day?

711

00:41:50,000 --> 00:41:51,000

Come on, man!

712

00:41:51,000 --> 00:41:52,000

Yeah!

713

00:41:54,000 --> 00:42:00,000

The fuselage is free, but has the Heinemann diet been savage enough?

714

00:42:01,000 --> 00:42:03,000

Spot on, 3,500.

715

00:42:03,000 --> 00:42:05,000

It's beautiful!

716

00:42:06,000 --> 00:42:10,000

Well, our researchers have been unable to find a single instance where somebody has

717

00:42:10,000 --> 00:42:17,000

either tried to or been successful with surviving a fall from an aircraft in a life raft or a slide.

718

00:42:17,000 --> 00:42:23,000

Yeah, but in the history of aviation, there have been an amazing number of what we would call wreckage riders,

719

00:42:23,000 --> 00:42:28,000

people who have survived from those heights in the wreckage of the crafts that they were flying in.

720

00:42:28,000 --> 00:42:32,000

In increasing order of altitude, we'll start in January 1945.

721

00:42:32,000 --> 00:42:38,000

A B-17 bomber pilot survived a fall from 27,000 feet in the wreckage of his plane.

722

00:42:38,000 --> 00:42:49,000

And also in 1945 and also from a B-17, a tail gunner survived a fall from 28,000 feet only to be captured and taken prisoner.

723

00:42:49,000 --> 00:42:50,000

That's got to suck.

724

00:42:50,000 --> 00:42:51,000

He was totally unhurt, though.

725

00:42:51,000 --> 00:43:01,000

And most recently, Steve Fawcett actually survived a fall from 29,000 feet in the wreckage of the balloon he was using to circumnavigate the globe.

726

00:43:01,000 --> 00:43:06,000

He estimates that when he finally hit, he was only traveling at about 40 to 45 miles per hour.

727

00:43:06,000 --> 00:43:13,000

Buster's ride awaits. With the fuselage at fighting weight, it's time for the main event.

728

00:43:15,000 --> 00:43:18,000

This is the main event. We've all been waiting all day long.

729

00:43:18,000 --> 00:43:23,000

There are three ways in which this piece of aircraft could actually save Buster's life by him being inside of it.

730

00:43:23,000 --> 00:43:28,000

One is that its surface area could slow his descent enough to be survivable.

731

00:43:28,000 --> 00:43:30,000

I think it's going to be total devastation.

732

00:43:30,000 --> 00:43:38,000

A second one is that it could actually crumple and absorb a lot of the impact before that impact reaches Buster.

733

00:43:38,000 --> 00:43:42,000

When it hits the ground, it's going to be a pancake.

734

00:43:42,000 --> 00:43:55,000

And the third is, by being properly strapped in, he's not being whipped around by the impact, but being held tight so those G-forces aren't transferred secondarily to him thrashing around and taking major head trauma.

735

00:43:56,000 --> 00:43:58,000

How many of those are going to come into play on this drop?

736

00:43:58,000 --> 00:44:03,000

I have no idea. It all really depends on which way it falls.

737

00:44:03,000 --> 00:44:10,000

In the story of the free fall flight attendant, the survivor was found strapped into her seat in the grounded wreckage.

738

00:44:10,000 --> 00:44:13,000

There's no way he's going to fit in here.

739

00:44:13,000 --> 00:44:17,000

But Buster is a little larger than most female flight attendants.

740

00:44:18,000 --> 00:44:19,000

Bye, Buster.

741

00:44:19,000 --> 00:44:20,000

Nice to know you, buddy.

742

00:44:21,000 --> 00:44:29,000

I'm going to be probably right near where it was when it took off because it's going ways away.

743

00:44:29,000 --> 00:44:36,000

And the biggest worry that I have currently is the takeoff itself because I've got to be near it when it comes up.

744

00:44:36,000 --> 00:44:46,000

And so far, every one of these runs I've done, I'm looking at this thing directly over my head as it's going up and I'm trying to find some place to run to get out of that way.

745

00:44:46,000 --> 00:44:48,000

But it seems like it's following me.

746

00:44:51,000 --> 00:44:56,000

As the fuselage gets airborne, Jamie's fears become reality.

747

00:44:56,000 --> 00:45:01,000

The chopper struggles getting to its drop height, circling above the team as it climbs.

748

00:45:05,000 --> 00:45:11,000

For a brief and frightening minute, there is radio silence as everyone dives recovered.

749

00:45:11,000 --> 00:45:19,000

I thought he was going to go straight up, but they were right over top of us with 3,500 pounds of

stuff.

750

00:45:20,000 --> 00:45:25,000

We're backed up against a fence here, so it's kind of upsetting.

751

00:45:25,000 --> 00:45:32,000

And in fact, it's looking like he might be coming this way again, so I'd recommend that you guys get over here as well.

752

00:45:32,000 --> 00:45:38,000

But 2,000 feet is eventually reached, and the drop is nothing short of spectacular.

753

00:45:50,000 --> 00:45:55,000

As the old saying goes, it's not the fall that'll kill you, it's the landing.

754

00:45:57,000 --> 00:46:02,000

When it hit, it was like, you know, we saw this smack and then felt that.

755

00:46:02,000 --> 00:46:04,000

Yeah, wow.

756

00:46:04,000 --> 00:46:06,000

That was a bang.

757

00:46:07,000 --> 00:46:10,000

I hope we don't have to do too much cutting to get Buster out of this thing.

758

00:46:10,000 --> 00:46:15,000

With his radar gun, Grant clocked the fuselage at 96 miles per hour.

759

00:46:15,000 --> 00:46:18,000

At that speed, could our wreckage rider have survived?

760

00:46:18,000 --> 00:46:20,000

Dude, it is totally inverted.

761

00:46:20,000 --> 00:46:25,000

In the original myth, our flight attendant had severe injuries, but lived.

762

00:46:25,000 --> 00:46:28,000

Is Buster once again busted? Is the myth?

763

00:46:28,000 --> 00:46:30,000

Can't get there yet.

764

00:46:30,000 --> 00:46:36,000

We're not leaving here without Buster, man. Leave no crash test to me for life.

765

00:46:36,000 --> 00:46:41,000

The main thing I remember about that drop was trying to run to get out from under the darn thing.

766

00:46:41,000 --> 00:46:47,000

The more I do this show, you know, if I feel like running, I'm going to run. And that was one of those cases.

767

00:46:47,000 --> 00:46:50,000

Buster has assumed the fetal position.

768

00:46:50,000 --> 00:46:53,000

Dude, you should have been in the brace position.

769

00:46:56,000 --> 00:46:59,000

It's like a Christmas tree of carnage.

770

00:46:59,000 --> 00:47:06,000

When the fuselage hit the ground, it crushed and it made like a popping sound, like a car crash.

771

00:47:06,000 --> 00:47:12,000

It just, you know, and it just crushed. I thought maybe it would explode, but crumple.

772

00:47:12,000 --> 00:47:19,000

I think given the aspects of falling in wreckage that we assumed might be able to save his life,

773

00:47:19,000 --> 00:47:31,000

slowing down your descent is not one of them, because a 30% decrease in terminal velocity still has you falling at about 90 to 100 miles per hour, which is pre-lethal.

774

00:47:31,000 --> 00:47:33,000

Okay, is that it?

775

00:47:33,000 --> 00:47:36,000

Wow, we further broke the foot.

776

00:47:36,000 --> 00:47:39,000

I didn't think we could break this anymore, but apparently we were able to.

777

00:47:39,000 --> 00:47:46,000

When I look at this wreckage, and I think about the stewardess who survived in the tail of the plane,

778

00:47:46,000 --> 00:47:56,000

I think, well, I look at the cargo hold, which is upside down and the top of this wreckage, and it actually looks not that distended.

779

00:47:56,000 --> 00:48:04,000

If Buster had fallen correctly, if he had fallen upright, he might have actually survived.

780

00:48:04,000 --> 00:48:13,000

I mean, it's all about the details, the exact circumstances, what exactly was the section of the tail end of the plane that she was in,

781

00:48:13,000 --> 00:48:21,000

how fast are you going in the airplane when you're trying to escape from it with a life raft or whatever.

782

00:48:21,000 --> 00:48:25,000

I mean, all those details mean the difference between success or failure.

783

00:48:25,000 --> 00:48:29,000

Enough with the details. What's the verdict?

784

00:48:29,000 --> 00:48:37,000

We know that the stewardess that survived in the tail section of the plane is true, and that humans have survived some fairly remarkable falls.

785

00:48:37,000 --> 00:48:43,000

I would say this one is entirely plausible. It's not the preferred method for getting out of an airplane.

786

00:48:43,000 --> 00:48:44,000

But it is plausible.

787

00:48:44,000 --> 00:48:46,000

It is plausible that it's survivable.

788

00:48:50,000 --> 00:48:55,000

Do we all have a moment of silence for Buster and his work for the cause?

789

00:48:55,000 --> 00:48:56,000

Thanks, buddy.

790

00:48:56,000 --> 00:48:58,000

Jamie won't, because he thinks it's stupid.

791

00:49:00,000 --> 00:49:07,000

Monday nights are about to burn rubber.

792

00:49:07,000 --> 00:49:15,000

Coming soon, Top Gear, the motoring show with its foot on the pedal and its tongue in its cheek. Only on SBS.

