

1

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

I'm always listening for the footsteps of the souls I left to burn.

2

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

Wondering have I dead yet?

3

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

Did the innocence get their turn?

4

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

Am I marching?

5

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

Am I marching?

6

00:00:23,000 --> 00:00:29,000

Walking with the ones who fell am I watching?

7

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

In the hell

8

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

Whoa, what happened there?

9

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

It's this symbol for infinity.

10

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

Well, eat up, your breakfast won't stay warm forever.

11

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

It's true. Nothing lasts forever.

12

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

Alright, you ready for this?

13

00:01:04,000 --> 00:01:07,000

Blow it out of the water.

14

00:01:07,000 --> 00:01:11,000

Okay, let's do it. Let's blow it out of the water.

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00:01:29,000 --> 00:01:40,000

Alright, today we have an entire episode devoted to the phrase,

16

00:01:40,000 --> 00:01:42,000

blowing it out of the water.

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

Which has come to mean a kind of overwhelming victory against the enemy, right?

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00:01:46,000 --> 00:01:52,000

Exactly right. And in that sense of the phrase, later we've got the finale of Breaking Bad.

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00:01:52,000 --> 00:01:58,000

Could Walter White's machine gun booby trap really have taken out all of his enemies?

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

But first, we're actually going to test the literal meaning of the myth,

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

which comes from Submarinus from World War II.

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00:02:05,000 --> 00:02:08,000

Apparently, occasionally when they sent a torpedo toward a ship,

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00:02:08,000 --> 00:02:13,000

they would watch that ship blow completely out of the water instead of blowing up.

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

How epic are we going to take this?

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00:02:15,000 --> 00:02:18,000

I figure we got to get pretty epic with it.

26

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

Cool.

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00:02:19,000 --> 00:02:23,000

Blowing a boat out of the water, instead of into pieces,

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00:02:23,000 --> 00:02:32,000

might only happen if the relative positions of ship and shockwave are spot on.

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00:02:32,000 --> 00:02:38,000

And to find out just that, the mythbusters are starting in miniature.

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00:02:38,000 --> 00:02:40,000

Now, when we say we're going to blow a boat out of the water,

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

we mean specifically blow a boat out of the water, not blow up a boat.

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00:02:45,000 --> 00:02:46,000

That's not what we want.

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00:02:46,000 --> 00:02:49,000

So, we're going to start with this beautiful tank.

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00:02:49,000 --> 00:02:53,000

It is large enough for us to detonate our miniature explosives.

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

Oh, f***.

36

00:02:55,000 --> 00:03:00,000

And our boat, which still needs a little bit of work.

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

Their 15 grams of black powder is perfectly scaled for a setup this size.

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

But to find out if it can lift the boat, rather than obliterate it, placement is key.

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00:03:11,000 --> 00:03:15,000

Now, we figured there's a certain depth at which the explosive reaches this optimal relationship

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00:03:15,000 --> 00:03:20,000

between the water and the boat to send the boat flying itself out of the water.

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00:03:20,000 --> 00:03:22,000

And that depth is what we want to find.

42

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

Ow.

43

00:03:23,000 --> 00:03:26,000

And first up will be, I guess, our control.

44

00:03:26,000 --> 00:03:27,000

Perfect.

45

00:03:27,000 --> 00:03:31,000

Which will be the explosives at the boat on the surface of the water.

46

00:03:31,000 --> 00:03:33,000

Alright, Heinemann, you ready?

47

00:03:33,000 --> 00:03:34,000

I'm ready.

48

00:03:34,000 --> 00:03:38,000

Alright, three, two, one, go.

49

00:03:38,000 --> 00:03:40,000

Whoa!

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00:03:40,000 --> 00:03:43,000

There's no more boat.

51

00:03:43,000 --> 00:03:48,000

That was genuinely thrilling.

52

00:03:48,000 --> 00:03:58,000

That was spectacular and kind of shockingly beautiful.

53

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

Look at how this glowing ball forms this two-foot tank.

54

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

Look at how this glowing ball forms this two-foot diameter hole in the water.

55

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

It's almost perfectly spherical before it starts to collapse on itself.

56

00:04:15,000 --> 00:04:19,000

And the boat, well, the boat, she is no more.

57

00:04:19,000 --> 00:04:22,000

So, now we're trying to find the depth at which to lift the boat,

58

00:04:22,000 --> 00:04:25,000

rather than turn it into a bunch of little chunks.

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00:04:25,000 --> 00:04:29,000

And frankly, given the size of that sphere of explosion,

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00:04:29,000 --> 00:04:31,000

I'm thinking about going halfway down,

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00:04:31,000 --> 00:04:36,000

12 inches below the surface for the next cherry bomb.

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00:04:36,000 --> 00:04:39,000

Okay, from halfway down the tank,

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00:04:39,000 --> 00:04:42,000

three, two, one.

64

00:04:42,000 --> 00:04:49,000

Ha ha ha ha!

65

00:04:49,000 --> 00:04:52,000

This time, the boat's not been totaled.

66

00:04:52,000 --> 00:04:55,000

Uh, we need a hose out of here right away.

67

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

We got electrical cords, need to be picked up.

68

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

But the tank has f***ing me.

69

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

With more scale tests to come,

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

it's all hands to the pump to salvage some science.

71

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

Ha ha ha ha!

72

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

But it's not all doom and gloom.

73

00:05:11,000 --> 00:05:16,000

Well, our breach tank notwithstanding, that last test was beautiful.

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00:05:16,000 --> 00:05:22,000

As it explodes, you can see this perfect sphere of fire expand,

75

00:05:22,000 --> 00:05:26,000

and as it's expanding, pushes the boat literally out of the water.

76

00:05:26,000 --> 00:05:29,000

It was exactly what we were looking for.

77

00:05:29,000 --> 00:05:32,000

Oh, that boat is going straight up.

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00:05:32,000 --> 00:05:34,000

It's lifting it beautifully.

79

00:05:34,000 --> 00:05:36,000

It made it at least to the rim of the tank.

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00:05:36,000 --> 00:05:38,000

At least to the rim of the tank. That's significant.

81

00:05:38,000 --> 00:05:39,000

Go!

82

00:05:39,000 --> 00:05:42,000

Unfortunately, the tank wasn't perfectly glued around the seam,

83

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

so we're going to empty this tank out.

84

00:05:44,000 --> 00:05:45,000

We're going to reseal it.

85

00:05:45,000 --> 00:05:47,000

All right.

86

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

We're going to try it one more time.

87

00:05:49,000 --> 00:05:51,000

Ah, yeah.

88

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

So far, we set up two explosions,

89

00:05:54,000 --> 00:05:58,000

one right next to the boat, and then one in the middle of the water.

90

00:05:58,000 --> 00:06:04,000

Now both of those results were entirely different.

91

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

And so, this time, we're going to put the explosion much further away

92

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

right on the bottom of our tank, and we'll see what that does.

93

00:06:11,000 --> 00:06:14,000

This is deck charge at the bottom of the tank.

94

00:06:14,000 --> 00:06:18,000

Three, two, one, go!

95

00:06:18,000 --> 00:06:21,000

Ha ha ha ha ha!

96

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

Go!

97

00:06:22,000 --> 00:06:27,000

Boat upside down error, but no leaks.

98

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

Go!

99

00:06:31,000 --> 00:06:35,000

It would be kind of upsetting to be turned upside down instantly, though.

100

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

I believe that's the very definition.

101

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

Slow down.

102

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

It's clear that test three did lift the boat up and out,

103

00:06:44,000 --> 00:06:47,000

but not as much as test two,

104

00:06:48,000 --> 00:06:54,000

meaning come full scale, a depth charge positioned between the boat and the boat,

105

00:06:54,000 --> 00:06:57,000

may give them the result this myth needs.

106

00:06:57,000 --> 00:06:59,000

Ha ha ha ha ha!

107

00:06:59,000 --> 00:07:02,000

We've learned that doing controlled experiments like this

108

00:07:02,000 --> 00:07:05,000

can sometimes give us clues that we didn't even know we're there

109

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

as to what's really going on.

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

Now in this case, what we saw was that if the explosive is too close,

111

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

it'll blow it up.

112

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

If it's too far away, it won't move it as much.

113

00:07:15,000 --> 00:07:18,000

Now we'll be keeping all of that as food for thought

114

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

when we go out into the full scale,

115

00:07:20,000 --> 00:07:22,000

and hopefully we'll pick the right ratio.

116

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

But before going large, what else is on the docket?

117

00:07:27,000 --> 00:07:30,000

So, Walter White's machine gun booby trap.

118

00:07:30,000 --> 00:07:32,000

Yes, the metaphorical testing of the phrase,

119

00:07:32,000 --> 00:07:35,000

blowing out of the water in the finale of Breaking Bad,

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

Walt puts an autonomous machine gun in the trunk of his car,

121

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

sets it off, and takes out all of his enemies at once.

122

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

Spoiler alert.

123

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

Come on, who hasn't seen Breaking Bad at this point?

124

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

Okay, well, if I remember correctly, that was an M60 machine gun.

125

00:07:55,000 --> 00:07:57,000

Indeed it was. What are you thinking?

126

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

Well, that's probably got quite a kick.

127

00:07:59,000 --> 00:08:02,000

I figured we ought to go to the gun range and see what we're dealing with.

128

00:08:02,000 --> 00:08:04,000

I like where you're going with that. Let's do it.

129

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

Now Walt's booby trap depended on a lash-down,

130

00:08:14,000 --> 00:08:19,000

autonomously firing M60 machine gun in the trunk of his car.

131

00:08:19,000 --> 00:08:21,000

But could the rig he built have even held on to such a

132

00:08:21,000 --> 00:08:23,000

legendarily powerful weapon?

133

00:08:23,000 --> 00:08:27,000

The gun fires 550 rounds per minute.

134

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

That is a lot of lead.

135

00:08:30,000 --> 00:08:32,000

Well, in order to get to know the gun,

136

00:08:32,000 --> 00:08:35,000

Jamie and I are going to fire it here at the Shabbo Gun Club.

137

00:08:35,000 --> 00:08:38,000

Check how much recoil and power the weapon really has.

138

00:08:38,000 --> 00:08:41,000

Now, Jamie said he was coming with a gun,

139

00:08:41,000 --> 00:08:43,000

and he's around here somewhere.

140

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

This is the M60 machine gun.

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00:08:49,000 --> 00:08:52,000

It was developed in the 50s for the U.S. Army

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00:08:52,000 --> 00:08:54,000

and used by them through the 90s.

143

00:08:54,000 --> 00:08:57,000

Now, this is the iconic machine gun that you would have seen

144

00:08:57,000 --> 00:09:00,000

hanging off the side of a helicopter gunship

145

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

in any Vietnam War era footage.

146

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

And it's what Walt had in the back of his trunk.

147

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

There's no doubt that it's some seriously heavy artillery.

148

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

But is it so powerful?

149

00:09:12,000 --> 00:09:15,000

It's the heaviest gun I've ever held.

150

00:09:15,000 --> 00:09:17,000

You'll feel it push back.

151

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

That securing it on Walt's homemade mount

152

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

is a mission impossible.

153

00:09:21,000 --> 00:09:22,000

Let's do it.

154

00:09:22,000 --> 00:09:27,000

To find out, Adam's starting slow by not going full auto.

155

00:09:27,000 --> 00:09:29,000

Safety is off.

156

00:09:29,000 --> 00:09:32,000

Alright, firing in three, two, one.

157

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

Woo! That was cool.

158

00:09:47,000 --> 00:09:51,000

I just fired 45 rounds from the M60.

159

00:09:51,000 --> 00:09:55,000

And frankly, it doesn't have as much recoil as I thought it would,

160

00:09:55,000 --> 00:09:58,000

but it is a heavy piece of machinery,

161

00:09:58,000 --> 00:10:01,000

and there is a lot of movement.

162

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

The gun mount in the back of our car

163

00:10:07,000 --> 00:10:09,000

is going to have to withstand a lot of shaking,

164

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

and not just for accuracy, but also for general safety.

165

00:10:13,000 --> 00:10:15,000

With less push than predicted,

166

00:10:15,000 --> 00:10:17,000

Walt's plan may have potential.

167

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

But will that change when the guns crank to the max?

168

00:10:21,000 --> 00:10:22,000

Alright.

169

00:10:22,000 --> 00:10:24,000

Okay, here we go.

170

00:10:30,000 --> 00:10:32,000

Wow.

171

00:10:33,000 --> 00:10:37,000

Holding onto that M60 while it's firing a continuous stream of bullets

172

00:10:37,000 --> 00:10:41,000

is, well, it's kind of like trying to throttle a full-size

173

00:10:41,000 --> 00:10:45,000

and very angry snake, which, by the way, I've done.

174

00:10:45,000 --> 00:10:50,000

It does push back in line with the gun a little bit,

175

00:10:50,000 --> 00:10:53,000

but it's not too bad.

176

00:10:53,000 --> 00:10:55,000

It's quite a nice machine.

177

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

It's so far so good, but to copy the clip more closely,

178

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

the guys are next adding a target.

179

00:11:01,000 --> 00:11:02,000

Nailed it.

180

00:11:02,000 --> 00:11:04,000

And that's not all.

181

00:11:04,000 --> 00:11:05,000

Okay, here we go.

182

00:11:05,000 --> 00:11:09,000

Because this time, Jamie's going to be firing 200 rounds

183

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

with the gun secured on a tabletop tripod.

184

00:11:13,000 --> 00:11:17,000

Three, two, one.

185

00:11:25,000 --> 00:11:27,000

Firing at its maximum capacity,

186

00:11:27,000 --> 00:11:31,000

the bullets leave the barrel at a rate of 9 per second.

187

00:11:31,000 --> 00:11:34,000

But thanks to the gun's weight and engineering,

188

00:11:34,000 --> 00:11:37,000

the recoil, especially when shot from a tripod,

189

00:11:37,000 --> 00:11:40,000

is surprisingly slight.

190

00:11:42,000 --> 00:11:45,000

Meaning that firing it from a homemade mount

191

00:11:45,000 --> 00:11:48,000

might not be Hollywood hijinks.

192

00:11:52,000 --> 00:11:54,000

I think you'd be hurting.

193

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

Still to come.

194

00:11:56,000 --> 00:11:57,000

Hey!

195

00:11:57,000 --> 00:12:00,000

The guys go big or go home.

196

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

Boom.

197

00:12:01,000 --> 00:12:05,000

And a special guest joins the Breaking Bad blowout.

198

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

That is the real deal.

199

00:12:07,000 --> 00:12:09,000

Vince Gilligan, the creator of Breaking Bad.

200

00:12:20,000 --> 00:12:22,000

Can we talk business?

201

00:12:22,000 --> 00:12:25,000

In Breaking Bad's grand finale,

202

00:12:25,000 --> 00:12:28,000

Walter White ended things with a bang.

203

00:12:31,000 --> 00:12:34,000

But would his rig really have rocked?

204

00:12:34,000 --> 00:12:37,000

To find out, it's time for the Mythbusters

205

00:12:37,000 --> 00:12:40,000

to make their own deadly device.

206

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

All right, so we've got to set up the meanest

207

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

practical joke ever.

208

00:12:45,000 --> 00:12:47,000

So let's see what we got here.

209

00:12:47,000 --> 00:12:49,000

Okay, so I noticed a couple of things.

210

00:12:49,000 --> 00:12:52,000

One is that it looks like the base of this thing is...

211

00:12:52,000 --> 00:12:53,000

Oh, that's a chair base.

212

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

Yeah, that's like this thing.

213

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

Okay, so if that's a chair base,

214

00:12:58,000 --> 00:12:59,000

I'm going to write this down.

215

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

I'm guessing that's the main pivot for the gun

216

00:13:01,000 --> 00:13:03,000

at its balance point.

217

00:13:03,000 --> 00:13:04,000

Yeah.

218

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

Okay, this is a garage door opener.

219

00:13:06,000 --> 00:13:08,000

Well, wait a second.

220

00:13:08,000 --> 00:13:12,000

And look on this one, it looks like he's used a wrench.

221

00:13:12,000 --> 00:13:14,000

Oh, as a pivot arm?

222

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

Yeah.

223

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

Okay, so a wrench as a pivot arm.

224

00:13:17,000 --> 00:13:19,000

This is hilarious.

225

00:13:19,000 --> 00:13:22,000

Now there's the question of the key fob.

226

00:13:22,000 --> 00:13:25,000

There's three things that happen when he hits the key fob,

227

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

which is, one, the trunk pops open.

228

00:13:27,000 --> 00:13:28,000

Yeah.

229

00:13:28,000 --> 00:13:30,000

And then there's the reciprocating action.

230

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

The gun starts sweeping.

231

00:13:32,000 --> 00:13:34,000

And then it starts firing.

232

00:13:34,000 --> 00:13:36,000

And on their close-up,

233

00:13:36,000 --> 00:13:40,000

we can see a package that is a gearhead-driven car door opener.

234

00:13:40,000 --> 00:13:41,000

Right.

235

00:13:41,000 --> 00:13:44,000

Which I feel like properly levered,

236

00:13:44,000 --> 00:13:46,000

it could be a fantastic trigger pull.

237

00:13:46,000 --> 00:13:47,000

Yeah.

238

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

Well, so far, I'm not seeing anything that seems to me

239

00:13:50,000 --> 00:13:51,000

like a deal-breaker.

240

00:13:51,000 --> 00:13:52,000

Yeah.

241

00:13:52,000 --> 00:13:53,000

So divide and conquer.

242

00:13:53,000 --> 00:13:54,000

Divide and conquer.

243

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

You want to work on the key fob and electronics,

244

00:13:56,000 --> 00:13:59,000

and I'll start getting the rigged parts together.

245

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

Okay.

246

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

The guys start by looking high and low

247

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

for all the key components.

248

00:14:07,000 --> 00:14:08,000

The chair.

249

00:14:09,000 --> 00:14:10,000

The garage door opener.

250

00:14:10,000 --> 00:14:13,000

This looks precisely like what we see in the show.

251

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

The wrenches.

252

00:14:16,000 --> 00:14:17,000

And a trigger pull.

253

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

This is a cool little device.

254

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

It's meant for locking and unlocking the doors in your car.

255

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

Oh, yeah.

256

00:14:26,000 --> 00:14:28,000

That would totally pull the trigger.

257

00:14:29,000 --> 00:14:32,000

And with that, Adam can commence his part of the build.

258

00:14:34,000 --> 00:14:35,000

That's how short it is.

259

00:14:36,000 --> 00:14:38,000

Walter's chair-based gun mount.

260

00:14:39,000 --> 00:14:40,000

Hey, hey, hey.

261

00:14:41,000 --> 00:14:44,000

Which involves connecting some conduit to an office chair.

262

00:14:44,000 --> 00:14:45,000

Yeah.

263

00:14:46,000 --> 00:14:48,000

You can't foil me.

264

00:14:49,000 --> 00:14:50,000

And that's it.

265

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

That's pretty freaking cool.

266

00:14:55,000 --> 00:14:56,000

Dude.

267

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

Dude.

268

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

That is fantastic.

269

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

The garage door opener, however, is proving problematic.

270

00:15:07,000 --> 00:15:08,000

Uh...

271

00:15:09,000 --> 00:15:11,000

With the key fob failing to fire...

272

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

That would say that that is on.

273

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

...Janey delves deeper to unearth a complex safety system.

274

00:15:20,000 --> 00:15:23,000

This thing has switches that tell when the door is closed

275

00:15:23,000 --> 00:15:27,000

or when it's open and sensors so that you can't kill your cat

276

00:15:27,000 --> 00:15:29,000

or break your foot or whatever it is.

277

00:15:29,000 --> 00:15:31,000

We don't need any of that stuff.

278

00:15:31,000 --> 00:15:34,000

Jamie needs to bypass the safety switches.

279

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

We just want power to go to the motor.

280

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

Period.

281

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

So that the motor can be powered on and never automatically shut down.

282

00:15:43,000 --> 00:15:46,000

I've hot-wired cars before, but...

283

00:15:47,000 --> 00:15:50,000

...never hot-wired a garage door opener for a car.

284

00:15:50,000 --> 00:15:53,000

It may be a sophisticated circuit, but an hour later,

285

00:15:53,000 --> 00:15:56,000

and it ain't no match for the Heinemann.

286

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

Very cool.

287

00:16:01,000 --> 00:16:05,000

With the door ring running, Adam next compels it to his gun mount,

288

00:16:05,000 --> 00:16:08,000

courtesy of the wrench pivot system.

289

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

Let's try a test.

290

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

Three, two, one.

291

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

What?

292

00:16:17,000 --> 00:16:18,000

What?

293

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

Okay, that was too fast.

294

00:16:22,000 --> 00:16:25,000

Just gonna go out and let him say that was too fast.

295

00:16:26,000 --> 00:16:28,000

I hit my first big snafu,

296

00:16:28,000 --> 00:16:32,000

and that is that the key component of sweeping this gun back and forth,

297

00:16:32,000 --> 00:16:35,000

the garage door opener spins way too fast.

298

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

So I need to reduce its speed,

299

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

and in keeping with Walt's clues together,

300

00:16:39,000 --> 00:16:42,000

whatever I can find in the local stores solution...

301

00:16:43,000 --> 00:16:45,000

Still a few bugs to be worked out.

302

00:16:45,000 --> 00:16:50,000

I'm thinking I might use some bicycle parts to get me that gear reduction.

303

00:16:50,000 --> 00:16:53,000

For the first time, Adam's having to go off-script.

304

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

A couple of welds. Here we go.

305

00:16:56,000 --> 00:16:58,000

And while this is not what Walt did,

306

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

it is a fix he could have fabricated.

307

00:17:06,000 --> 00:17:07,000

This is a moment of truth.

308

00:17:07,000 --> 00:17:09,000

Three, two, one.

309

00:17:10,000 --> 00:17:11,000

Yeah!

310

00:17:11,000 --> 00:17:13,000

That's the kind of abuse it's gonna be under.

311

00:17:13,000 --> 00:17:16,000

With a turn speed that's way closer to Walter's,

312

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

Adam's addition should let their rig fire on all cylinders.

313

00:17:23,000 --> 00:17:24,000

That's cool.

314

00:17:25,000 --> 00:17:28,000

Provided that Jamie's trigger delivers.

315

00:17:30,000 --> 00:17:31,000

So how this works is,

316

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

you know, you can't just hit the switch and it's like,

317

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

you know, you're all in a hurry.

318

00:17:36,000 --> 00:17:38,000

You know, the switch is not working.

319

00:17:38,000 --> 00:17:41,000

You have to be excited that Jamie's trigger delivers.

320

00:17:43,000 --> 00:17:45,000

So how this works is that there are actually two of these.

321

00:17:45,000 --> 00:17:47,000

One on either side,

322

00:17:47,000 --> 00:17:48,000

and a pin that connects them.

323

00:17:48,000 --> 00:17:50,000

And the pin goes across the trigger.

324

00:17:50,000 --> 00:17:52,000

And so when these actuate,

325

00:17:52,000 --> 00:17:56,000

they both push back and push on the trigger that way.

326

00:17:58,000 --> 00:17:59,000

Beauty.

327

00:17:59,000 --> 00:18:01,000

Well, we have a plan.

328

00:18:01,000 --> 00:18:04,120

All the major components of Walt's build are here.

329

00:18:04,120 --> 00:18:06,920

The box end wrenches pivoting off a garage door opener.

330

00:18:06,920 --> 00:18:09,800

The gun on a chair swivel, mounted

331

00:18:09,800 --> 00:18:12,600

to a piece of standard, shallow conduit.

332

00:18:12,600 --> 00:18:15,120

I have added one thing, which is to get a 4 to 1 gear

333

00:18:15,120 --> 00:18:17,600

to reduction, I've added a 10-speed cassette

334

00:18:17,600 --> 00:18:19,200

to the edge of the garage door opener.

335

00:18:19,200 --> 00:18:21,240

But again, all of this is stuff you

336

00:18:21,240 --> 00:18:24,320

could buy within a local town like Walt had to do.

337

00:18:24,320 --> 00:18:26,680

And check it out.

338

00:18:26,680 --> 00:18:27,840

It totally operates.

339

00:18:31,000 --> 00:18:34,120

It's hard to get excited when I find this one of the most

340

00:18:34,120 --> 00:18:38,120

terrifying machines we have ever built.

341

00:18:38,120 --> 00:18:41,120

Nonetheless, I'm pretty excited.

342

00:18:41,120 --> 00:18:41,640

Stop that.

343

00:18:48,720 --> 00:18:52,080

In Blow It Out of the Water, Adam and Jamie's small scale

344

00:18:52,080 --> 00:18:52,480

tests

345

00:18:52,480 --> 00:18:53,480

Go.

346

00:18:53,480 --> 00:18:54,480

Whoa!

347

00:18:54,480 --> 00:18:56,920

Ha, ha, ha, ha.

348

00:18:56,920 --> 00:19:01,360

showed that a mid-depth boom could lift a ship up and out.

349

00:19:01,360 --> 00:19:03,200

It's lifting it beautifully.

350

00:19:03,200 --> 00:19:06,920

But can they repeat this feat when they go large?

351

00:19:09,880 --> 00:19:12,320

When it comes to explosives on the water,

352

00:19:12,320 --> 00:19:14,680

there's not many places that open to us.

353

00:19:14,680 --> 00:19:17,920

But luckily, this quarry lake in Gold Country, northern

354

00:19:17,920 --> 00:19:23,640

California, poetically named Pitt 232, is always open for us.

355

00:19:23,680 --> 00:19:27,000

And it's in Pitt 232 that we're going to put this boat,

356

00:19:27,000 --> 00:19:29,200

along with a buttload of explosives,

357

00:19:29,200 --> 00:19:30,880

and see if we can blow it out of the water.

358

00:19:30,880 --> 00:19:33,640

Ha, ha, ha.

359

00:19:33,640 --> 00:19:37,160

That's a lot of steel.

360

00:19:37,160 --> 00:19:39,400

Now, while we've gone to great lengths

361

00:19:39,400 --> 00:19:41,880

to buy a really big boat made out of steel

362

00:19:41,880 --> 00:19:44,800

that is semi-close to the kind of military boat we're

363

00:19:44,800 --> 00:19:47,200

replicating, the Sherpit viewers among you

364

00:19:47,200 --> 00:19:50,440

might notice that military ships are almost never

365

00:19:50,440 --> 00:19:51,960

painted bright orange.

366

00:19:51,960 --> 00:19:54,080

We've used a lot of boats on the show.

367

00:19:54,080 --> 00:19:56,920

This might be both the biggest and the ugliest,

368

00:19:56,920 --> 00:19:58,600

all at the same time.

369

00:19:58,600 --> 00:20:01,360

When that bomb goes off, a lot is going to get obscured.

370

00:20:01,360 --> 00:20:04,560

And we want the best chance for seeing if our boat actually

371

00:20:04,560 --> 00:20:08,720

leaves the water and the orange might be the thing that

372

00:20:08,720 --> 00:20:10,400

helps us see that.

373

00:20:10,400 --> 00:20:11,080

Indeed.

374

00:20:11,080 --> 00:20:16,840

But before any boom, there are three titanic tasks to tick off.

375

00:20:16,840 --> 00:20:19,960

First, the guys need to raise her up, something

376

00:20:19,960 --> 00:20:22,080

that's easier said than done.

377

00:20:22,080 --> 00:20:24,040

This whole thing is pretty finicky,

378

00:20:24,040 --> 00:20:27,040

because if these guys don't get their rigging right,

379

00:20:27,040 --> 00:20:28,760

then the trailer could be damaged.

380

00:20:28,760 --> 00:20:30,520

The cradling could be damaged.

381

00:20:30,520 --> 00:20:35,840

It's not the ideal situation for loading a boat.

382

00:20:35,840 --> 00:20:37,840

We have lift off.

383

00:20:37,840 --> 00:20:41,640

Task two is to secure a centralized attachment point.

384

00:20:41,640 --> 00:20:43,280

Bang, right here.

385

00:20:43,280 --> 00:20:46,800

From which their explosive will hang midway between the boat

386

00:20:46,800 --> 00:20:49,800

and the lake bed.

387

00:20:49,800 --> 00:20:52,840

Jamie is now welding the ring to the underside of the boat,

388

00:20:52,840 --> 00:20:54,400

but that's not the most amazing thing that's

389

00:20:54,400 --> 00:20:55,760

happening right now.

390

00:20:55,760 --> 00:20:59,600

He also gave me his beret to hold.

391

00:20:59,600 --> 00:21:01,600

It's like alive.

392

00:21:01,600 --> 00:21:02,760

Handling it very carefully.

393

00:21:05,680 --> 00:21:11,200

And the final task, as the sun sets,

394

00:21:11,200 --> 00:21:13,640

is to lower her into the lake.

395

00:21:13,640 --> 00:21:15,560

Awesome.

396

00:21:15,560 --> 00:21:17,280

And she's in.

397

00:21:20,800 --> 00:21:29,800

Walter White's ultimate tank down

398

00:21:29,800 --> 00:21:33,800

is a classic case of blowing it out of the water,

399

00:21:33,800 --> 00:21:37,800

but would his rig really have worked?

400

00:21:37,800 --> 00:21:40,800

To find out, Adam and Jamie have returned to the range,

401

00:21:40,800 --> 00:21:43,800

where they're back with a bang.

402

00:21:43,800 --> 00:21:46,800

The bandits have arrived.

403

00:21:46,800 --> 00:21:48,800

Run!

404

00:21:49,800 --> 00:21:52,800

Their first job is to remove the prop gun

405

00:21:52,800 --> 00:21:54,800

and replace it with the real deal.

406

00:21:54,800 --> 00:21:58,800

What could possibly go wrong?

407

00:21:58,800 --> 00:22:01,800

Next, they add a box for the bullets.

408

00:22:01,800 --> 00:22:03,800

I feel good about that.

409

00:22:03,800 --> 00:22:07,800

Before tethering it in the trunk.

410

00:22:07,800 --> 00:22:08,800

There we go.

411

00:22:08,800 --> 00:22:09,800

You through?

412

00:22:09,800 --> 00:22:10,800

Yep.

413

00:22:10,800 --> 00:22:12,800

That just leaves the battery, which Jamie

414

00:22:12,800 --> 00:22:15,800

wires in from the back seat.

415

00:22:15,800 --> 00:22:19,800

All right, well, if everything is working correctly,

416

00:22:19,800 --> 00:22:23,800

this should turn on just like Waltz did with the key fob.

417

00:22:23,800 --> 00:22:24,800

Yeah.

418

00:22:27,800 --> 00:22:28,800

It's looking good.

419

00:22:28,800 --> 00:22:30,800

You want to give it a jiggle?

420

00:22:30,800 --> 00:22:32,800

Bop, bop, bop, bop, bop, bop, bop, bop, bop, bop.

421

00:22:32,800 --> 00:22:34,800

Come on.

422

00:22:34,800 --> 00:22:35,800

That looks good, Jamie.

423

00:22:35,800 --> 00:22:36,800

Yeah.

424

00:22:36,800 --> 00:22:37,800

I like it.

425

00:22:37,800 --> 00:22:40,800

With the gun ready to go, the guys next need

426

00:22:40,800 --> 00:22:43,800

a drug den to aim it at.

427

00:22:43,800 --> 00:22:45,800

We're pretty much only interested in what happened

428

00:22:45,800 --> 00:22:48,800

to the front wall of the house in the Breaking Bad episode.

429

00:22:48,800 --> 00:22:51,800

Now, our information is that that wall was made of stucco,

430

00:22:51,800 --> 00:22:54,800

which is a concrete or mortar-like material.

431

00:22:54,800 --> 00:22:56,800

And we're replicating that on our wall

432

00:22:56,800 --> 00:22:59,800

with precast panels of a similar material.

433

00:22:59,800 --> 00:23:01,800

So when our bullets hit this wall,

434

00:23:01,800 --> 00:23:04,800

it should behave pretty much like what it did in the show.

435

00:23:09,800 --> 00:23:11,800

By replicating the house in the clip,

436

00:23:11,800 --> 00:23:13,800

the guys will see if Walt's weapon can take down

437

00:23:13,800 --> 00:23:16,800

the drug lords through the wall,

438

00:23:16,800 --> 00:23:19,800

provided that it goes off without a hitch.

439

00:23:21,800 --> 00:23:25,800

To find out, Adam positions the car exactly as per the clip.

440

00:23:25,800 --> 00:23:27,800

What do you think?

441

00:23:27,800 --> 00:23:28,800

I like it, Jamie.

442

00:23:28,800 --> 00:23:30,800

But before letting rip for real,

443

00:23:30,800 --> 00:23:34,800

the guys want to do a proof of concept by firing blanks.

444

00:23:34,800 --> 00:23:36,800

I'm loading a weapon.

445

00:23:36,800 --> 00:23:38,800

120 off them.

446

00:23:38,800 --> 00:23:40,800

Safety's off. Gun's hot.

447

00:23:40,800 --> 00:23:42,800

Mr. Heinemann, you ready?

448

00:23:42,800 --> 00:23:43,800

I'm ready if you are.

449

00:23:43,800 --> 00:23:45,800

Okay, blank firing function test, Breaking Bad,

450

00:23:45,800 --> 00:23:46,800

Felida finale!

451

00:23:46,800 --> 00:23:48,800

Three, two, one.

452

00:23:52,800 --> 00:23:53,800

One shot.

453

00:23:53,800 --> 00:23:54,800

Hmm.

454

00:23:54,800 --> 00:23:57,800

That test might not have looked like it went very well,

455

00:23:57,800 --> 00:24:01,800

but I'm smiling because it went beautifully.

456

00:24:01,800 --> 00:24:03,800

We are looking for problems.

457

00:24:03,800 --> 00:24:06,800

We're trying to solve them before they become deadly problems,

458

00:24:06,800 --> 00:24:08,800

and that is a problem.

459

00:24:09,800 --> 00:24:11,800

We ended up with what's called a stove pipe.

460

00:24:11,800 --> 00:24:14,800

That's where one of the ejecting shells does not eject all the way

461

00:24:14,800 --> 00:24:16,800

and gets caught in the returning slide.

462

00:24:16,800 --> 00:24:19,800

Jamie's going to add some wire, hopefully, to fix it.

463

00:24:19,800 --> 00:24:21,800

It should be good to go in a couple minutes.

464

00:24:21,800 --> 00:24:22,800

All right. All right.

465

00:24:22,800 --> 00:24:25,800

All right, with the problems potentially solved,

466

00:24:25,800 --> 00:24:28,800

three, two, one, go.

467

00:24:28,800 --> 00:24:41,800

Now that's more like it.

468

00:24:41,800 --> 00:24:44,800

With their gun finally firing on all cylinders,

469

00:24:44,800 --> 00:24:48,800

the guys are at last ready to take on this myth for real.

470

00:24:51,800 --> 00:24:56,800

To find out if you can ever blow a ship clean out of the water,

471

00:24:56,800 --> 00:24:59,800

Adam and Jamie have floated their boat.

472

00:24:59,800 --> 00:25:02,800

And she's in.

473

00:25:02,800 --> 00:25:05,800

Now they need to sink their depth charge.

474

00:25:05,800 --> 00:25:08,800

Oh, it doesn't really pinch me.

475

00:25:08,800 --> 00:25:09,800

A little pinchy.

476

00:25:09,800 --> 00:25:11,800

Ow, it's actually quite pinchy.

477

00:25:11,800 --> 00:25:13,800

This thing is normally a septic tank,

478

00:25:13,800 --> 00:25:15,800

but we're not going to use it for that.

479

00:25:15,800 --> 00:25:17,800

There we go. That's it.

480

00:25:17,800 --> 00:25:19,800

Awesome.

481

00:25:19,800 --> 00:25:21,800

We're going to fill it with explosives

482

00:25:21,800 --> 00:25:23,800

and hang it underneath our boat

483

00:25:23,800 --> 00:25:26,800

to see if we can blow that boat out of the water.

484

00:25:26,800 --> 00:25:28,800

Hey.

485

00:25:28,800 --> 00:25:32,800

That's the plan, but it's not just explosives that'll be inside.

486

00:25:32,800 --> 00:25:35,800

Sand.

487

00:25:35,800 --> 00:25:38,800

So we need this bulb to sink once it's full.

488

00:25:38,800 --> 00:25:41,800

And we've calculated that to do that,

489

00:25:41,800 --> 00:25:44,800

if we put 2,500 pounds of stuff in here,

490

00:25:44,800 --> 00:25:46,800

it's not going to float.

491

00:25:46,800 --> 00:25:50,800

So given that we intend to put 1,000 pounds of our explosive in here,

492

00:25:50,800 --> 00:25:53,800

we need 1,500 pounds of something else.

493

00:25:53,800 --> 00:25:55,800

So that's why we're using sand.

494

00:25:55,800 --> 00:25:57,800

Yeah, go ahead. Get in, Captain Heidemann.

495

00:25:57,800 --> 00:25:59,800

Which is going to give us the correct amount

496

00:25:59,800 --> 00:26:02,800

if we put about 50 bags of sand in here

497

00:26:02,800 --> 00:26:04,800

before we put the explosives in.

498

00:26:04,800 --> 00:26:09,800

I like this thing. It's kind of cute, isn't it?

499

00:26:09,800 --> 00:26:14,800

Yeah, it's surprisingly stable.

500

00:26:14,800 --> 00:26:16,800

But before adding the explosives,

501

00:26:16,800 --> 00:26:19,800

first, it's anchors away.

502

00:26:19,800 --> 00:26:21,800

It's critical for our experiment

503

00:26:21,800 --> 00:26:24,800

that the boat stays exactly where we put it.

504

00:26:24,800 --> 00:26:28,800

So we are running into the reeds right now to set an anchor

505

00:26:28,800 --> 00:26:31,800

and a line which will go all the way across the lake

506

00:26:31,800 --> 00:26:33,800

and anchor our boat precisely where we put it

507

00:26:33,800 --> 00:26:35,800

so it doesn't move from there.

508

00:26:35,800 --> 00:26:40,800

It's like D-Day except we're fighting reeds.

509

00:26:40,800 --> 00:26:44,800

Having the boat drift out of place could spell disaster.

510

00:26:44,800 --> 00:26:47,800

Yeah! That's it.

511

00:26:47,800 --> 00:26:52,800

So it's no surprise that Janie is taking this job very seriously.

512

00:26:52,800 --> 00:26:54,800

Nice.

513

00:26:54,800 --> 00:26:57,800

Adam? Not so much.

514

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

All right, sir. What do you need?

515

00:27:00,800 --> 00:27:02,800

Seriously.

516

00:27:02,800 --> 00:27:05,800

I figured I'd get in the mood.

517

00:27:05,800 --> 00:27:07,800

Whatever.

518

00:27:07,800 --> 00:27:13,800

With the boat finally locked, there's only one ingredient left.

519

00:27:14,800 --> 00:27:16,800

Let's get the bomb. Let's do it.

520

00:27:16,800 --> 00:27:19,800

A thousand pounds of anfo.

521

00:27:19,800 --> 00:27:21,800

Well, there it is.

522

00:27:21,800 --> 00:27:26,800

That's just going to go into our bomb and, uh, boom.

523

00:27:30,800 --> 00:27:32,800

At this point, some of you might be wondering

524

00:27:32,800 --> 00:27:36,800

why we're using anfo instead of something high explosive like C4.

525

00:27:36,800 --> 00:27:38,800

I'd say that's a pretty good fit.

526

00:27:38,800 --> 00:27:40,800

Well, there's actually a really good reason for that.

527

00:27:40,800 --> 00:27:41,800

It's a specific choice.

528

00:27:41,800 --> 00:27:46,800

It, in fact, is a slower speed explosive, and we want that push.

529

00:27:46,800 --> 00:27:48,800

See, slower explosives are used to push things.

530

00:27:48,800 --> 00:27:51,800

High explosives are used to crack them into pieces.

531

00:27:51,800 --> 00:27:55,800

We want the anfo to lift this boat, not C4, to slice it in half.

532

00:27:55,800 --> 00:28:00,800

By using anfo, the guys are giving this myth a helping hand.

533

00:28:00,800 --> 00:28:02,800

Let's go ahead and tie it in.

534

00:28:02,800 --> 00:28:08,800

But will a thousand pounds of it, a typical amount used in both mines and torpedoes,

535

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

be enough to lift the boat high and dry?

536

00:28:11,800 --> 00:28:15,800

Well, I think that ought to do it.

537

00:28:15,800 --> 00:28:17,800

We're sealed up.

538

00:28:18,800 --> 00:28:21,800

To find out, the team tows the bomb to the boat

539

00:28:21,800 --> 00:28:24,800

before sinking it to a depth of 30 feet,

540

00:28:24,800 --> 00:28:29,800

exactly midway between the bottom of the hull and the bottom of the lake.

541

00:28:29,800 --> 00:28:32,800

Then it's go time.

542

00:28:32,800 --> 00:28:36,800

For those of you playing our home game, I'd like to cover two distinct things.

543

00:28:36,800 --> 00:28:39,800

One, remember that our goal is not to blow up our boat,

544

00:28:39,800 --> 00:28:42,800

but to lift it out of the water.

545

00:28:45,800 --> 00:28:47,800

It's all ready to go.

546

00:28:47,800 --> 00:28:49,800

And two, I know this hat isn't regulation,

547

00:28:49,800 --> 00:28:52,800

but it's a lot more comfortable than a chapeau bra.

548

00:28:54,800 --> 00:28:56,800

Alright, everyone, this is for real.

549

00:28:56,800 --> 00:28:58,800

Fire in the hole, fire in the hole.

550

00:28:58,800 --> 00:29:04,800

Detonating the boat in five, four, three, two, one.

551

00:29:06,800 --> 00:29:08,800

Fire in the hole.

552

00:29:18,800 --> 00:29:20,800

Boy, that's anticlimactic.

553

00:29:36,800 --> 00:29:40,800

The guys have assembled all the Breaking Bad ingredients.

554

00:29:40,800 --> 00:29:46,800

That is the gun, the ammunition, the classic car,

555

00:29:46,800 --> 00:29:49,800

the wall made of all the same materials as the target.

556

00:29:49,800 --> 00:29:51,800

Alright, and one other thing.

557

00:29:51,800 --> 00:29:53,800

How about Vince Gilligan, the creator of Breaking Bad?

558

00:29:53,800 --> 00:29:55,800

Vince, you ready to see this thing go?

559

00:29:55,800 --> 00:29:58,800

Man, I am seriously ready to see this thing go.

560

00:29:58,800 --> 00:30:01,800

After giving Vince a glimpse of the trunk tripod...

561

00:30:02,800 --> 00:30:05,800

That is the real deal.

562

00:30:05,800 --> 00:30:07,800

This is completely awesome.

563

00:30:07,800 --> 00:30:09,800

And the drug den.

564

00:30:09,800 --> 00:30:11,800

You might be one Nazi shot,

565

00:30:11,800 --> 00:30:14,800

but other than that, it looks pretty true to life.

566

00:30:14,800 --> 00:30:16,800

He for one is confident.

567

00:30:16,800 --> 00:30:18,800

How do I think this is going to go

568

00:30:18,800 --> 00:30:21,800

compared to our Breaking Bad fictional version?

569

00:30:21,800 --> 00:30:23,800

We've already seen the version with the blanks go off,

570

00:30:23,800 --> 00:30:26,800

and that looked like a dead ringer for what we did back in Albuquerque.

571

00:30:28,800 --> 00:30:29,800

I think with the live ammo,

572

00:30:29,800 --> 00:30:32,800

Walter White is going to be vindicated.

573

00:30:32,800 --> 00:30:35,800

At least in technological terms, if not moral terms.

574

00:30:35,800 --> 00:30:37,800

I'm loading the weapon.

575

00:30:37,800 --> 00:30:40,800

Well, with 200 live rounds locked and loaded,

576

00:30:40,800 --> 00:30:42,800

it's time to find out.

577

00:30:42,800 --> 00:30:44,800

Weapon's hot.

578

00:30:48,800 --> 00:30:49,800

Vince, you ready?

579

00:30:49,800 --> 00:30:50,800

Jamie, you good?

580

00:30:50,800 --> 00:30:52,800

Let's see if this works.

581

00:30:52,800 --> 00:30:55,800

Alright, this is Breaking Bad, Walt's booby trap finale.

582

00:30:55,800 --> 00:30:59,800

And three, two, one, go!

583

00:31:05,800 --> 00:31:06,800

Did you hear something?

584

00:31:06,800 --> 00:31:07,800

Here it goes.

585

00:31:07,800 --> 00:31:08,800

Nope.

586

00:31:08,800 --> 00:31:10,800

Okay, stiring it off.

587

00:31:15,800 --> 00:31:17,800

Well, we...

588

00:31:17,800 --> 00:31:20,800

We're not even sure what exactly has gone wrong,

589

00:31:20,800 --> 00:31:22,800

but we're proceeding very, very carefully.

590

00:31:22,800 --> 00:31:26,800

We've got a hot, loaded machine gun in that trunk.

591

00:31:26,800 --> 00:31:28,800

But for some reason, it didn't fire.

592

00:31:28,800 --> 00:31:31,800

No, hold on a second. Hold on a second.

593

00:31:31,800 --> 00:31:33,800

Slowly, but surely...

594

00:31:33,800 --> 00:31:35,800

Okay, you ready?

595

00:31:35,800 --> 00:31:38,800

The guys remove a blockage in the barrel.

596

00:31:38,800 --> 00:31:40,800

Come on, baby.

597

00:31:41,800 --> 00:31:43,800

Gun is safe. The ammo's out.

598

00:31:43,800 --> 00:31:45,800

Before resetting for take two...

599

00:31:45,800 --> 00:31:46,800

Alright.

600

00:31:46,800 --> 00:31:47,800

Ready to go again?

601

00:31:47,800 --> 00:31:49,800

I am ready.

602

00:31:50,800 --> 00:31:53,800

Alright, Breaking Bad finale, Walt's booby trap.

603

00:31:53,800 --> 00:31:55,800

Final test, hopefully.

604

00:31:55,800 --> 00:32:01,800

Three, two, one, go!

605

00:32:06,800 --> 00:32:07,800

What the hell?

606

00:32:07,800 --> 00:32:08,800

Power off.

607

00:32:08,800 --> 00:32:09,800

Power's off.

608

00:32:12,800 --> 00:32:15,800

Man, the tension here is...

609

00:32:15,800 --> 00:32:17,800

It's more than I would have thought it would be.

610

00:32:17,800 --> 00:32:19,800

Can I get one more host clip, a bigger one?

611

00:32:19,800 --> 00:32:22,800

And it makes me think, in what kind of nerves

612

00:32:22,800 --> 00:32:24,800

what must Walt have been feeling,

613

00:32:24,800 --> 00:32:27,800

wondering whether or not that little key fob clicker of his

614

00:32:27,800 --> 00:32:29,800

was gonna make this thing fire or not.

615

00:32:29,800 --> 00:32:31,800

Makes you think.

616

00:32:31,800 --> 00:32:35,800

In the clip, Walt's fob seems to work first time.

617

00:32:35,800 --> 00:32:41,800

But the guys are giving him and this myth one last chance.

618

00:32:41,800 --> 00:32:43,800

Vince, you're good.

619

00:32:43,800 --> 00:32:44,800

Third time's gonna be the charm.

620

00:32:44,800 --> 00:32:45,800

Alright.

621

00:32:45,800 --> 00:32:46,800

Breaking Bad.

622

00:32:46,800 --> 00:32:48,800

Walt's booby trap.

623

00:32:48,800 --> 00:32:52,800

Test in three, two, one.

624

00:33:12,800 --> 00:33:14,800

Oh, yeah.

625

00:33:14,800 --> 00:33:15,800

Woo!

626

00:33:15,800 --> 00:33:16,800

That's the stuff.

627

00:33:16,800 --> 00:33:18,800

That was an adrenaline rush.

628

00:33:18,800 --> 00:33:20,800

That was awesome.

629

00:33:20,800 --> 00:33:21,800

Oh, my God.

630

00:33:21,800 --> 00:33:24,800

That went on longer than it did when we did it for the show.

631

00:33:29,800 --> 00:33:31,800

That...that...that...

632

00:33:31,800 --> 00:33:33,800

Our rig worked.

633

00:33:34,800 --> 00:33:36,800

It actually swept back and forth.

634

00:33:37,800 --> 00:33:40,800

After all of this work, the rig worked.

635

00:33:40,800 --> 00:33:43,800

I have to say, my hat is off.

636

00:33:43,800 --> 00:33:48,800

Two Walt's for white for getting his to work on the first try.

637

00:33:50,800 --> 00:33:54,800

It took a while, but part one of the myth is back on track.

638

00:33:54,800 --> 00:33:56,800

Walt's rig worked.

639

00:33:56,800 --> 00:33:59,800

There's such a wide swath, man.

640

00:33:59,800 --> 00:34:01,800

But how's part two looking?

641

00:34:01,800 --> 00:34:03,800

That's really low.

642

00:34:03,800 --> 00:34:04,800

Look at that.

643

00:34:04,800 --> 00:34:05,800

Yeah.

644

00:34:05,800 --> 00:34:07,800

Like seven feet off the ground.

645

00:34:07,800 --> 00:34:11,800

Did the bullets make it through the wall and into the enemy inside?

646

00:34:13,800 --> 00:34:15,800

Also, look, that's a tumbling bullet.

647

00:34:15,800 --> 00:34:17,800

That is an oblong bullet-shaped hole.

648

00:34:17,800 --> 00:34:20,800

This bullet didn't go through while spiraling.

649

00:34:20,800 --> 00:34:22,800

Let's see what's behind you.

650

00:34:22,800 --> 00:34:23,800

Alright.

651

00:34:24,800 --> 00:34:25,800

Oh.

652

00:34:26,800 --> 00:34:27,800

Uh-oh.

653

00:34:27,800 --> 00:34:28,800

Dead dude.

654

00:34:31,800 --> 00:34:32,800

Dead dude.

655

00:34:34,800 --> 00:34:35,800

Dead dude.

656

00:34:38,800 --> 00:34:40,800

They're all dead.

657

00:34:41,800 --> 00:34:42,800

And Walt is okay.

658

00:34:46,800 --> 00:34:50,800

So the plan wasn't entirely crazy, I guess.

659

00:34:50,800 --> 00:34:51,800

Nope.

660

00:34:51,800 --> 00:34:52,800

What?

661

00:34:52,800 --> 00:34:53,800

Horror show.

662

00:34:54,800 --> 00:34:57,800

It's one thing to watch that gun work from behind the blast chamber.

663

00:34:57,800 --> 00:35:03,800

It's quite another to view the damage and the carnage after all the bullets have hit their mark.

664

00:35:03,800 --> 00:35:10,800

It is gobsmackingly disturbing how effective a booby trap Walt designed.

665

00:35:10,800 --> 00:35:14,800

And it is a testament to the show that all the damage we saw in Breaking Bad,

666

00:35:14,800 --> 00:35:18,800

we have been able to replicate in an actual experiment.

667

00:35:18,800 --> 00:35:19,800

I'm thrilled.

668

00:35:19,800 --> 00:35:27,800

The main thing that I see from this test is the fact that it wasn't a clean line across the building.

669

00:35:27,800 --> 00:35:33,800

Walt's plan to actually dive to the floor and be safe was really very risky

670

00:35:33,800 --> 00:35:35,800

because I'm seeing bullets that went down.

671

00:35:35,800 --> 00:35:41,800

The vibration in this thing is so massive that those bullets weren't just going in a straight line.

672

00:35:43,800 --> 00:35:49,800

Jane is absolutely right when he says that Walt was taking a big, big risk to be lying on the ground when this thing went off.

673

00:35:49,800 --> 00:35:53,800

However, I would like to point out a couple of salient elements.

674

00:35:54,800 --> 00:35:58,800

He didn't really necessarily intend to survive this escapade.

675

00:35:58,800 --> 00:36:04,800

He knew he was dying of cancer and all that really mattered to him was taking out these Nazi sons of guns.

676

00:36:04,800 --> 00:36:07,800

And B, he did get shot in fact.

677

00:36:07,800 --> 00:36:12,800

Took one in the side, I think it was this side and of course that led to his demise.

678

00:36:17,800 --> 00:36:21,800

But I guess the only thing he end with is just to say that was amazing.

679

00:36:21,800 --> 00:36:23,800

That was really something.

680

00:36:24,800 --> 00:36:30,800

Vince, like Adam and Janey, is thrilled at the result, but not a hundred percent.

681

00:36:30,800 --> 00:36:35,800

I gotta tell you, I'm elated because I rigged work, but you must be ecstatic.

682

00:36:35,800 --> 00:36:37,800

Yeah, I am ecstatic.

683

00:36:37,800 --> 00:36:39,800

You know, it's the little things that get you.

684

00:36:39,800 --> 00:36:46,800

I'm looking at the grouping of the rounds as they appear in the front of the building and I'm annoyed at myself

685

00:36:46,800 --> 00:36:50,800

because when it came to placing where the squibs would hit,

686

00:36:50,800 --> 00:36:54,800

I was out there with a drill gun and I'm thinking, yeah, I think a bullet would go here.

687

00:36:54,800 --> 00:36:55,800

I think one would go there.

688

00:36:55,800 --> 00:36:58,800

But you didn't think that they would group up at the end of their round?

689

00:36:58,800 --> 00:37:01,800

No, I missed that the rig has to stop and then double back.

690

00:37:01,800 --> 00:37:06,800

So there's a lot more grouping at the tail ends and I kind of missed that detail and I'm mad at myself.

691

00:37:06,800 --> 00:37:10,800

I appreciate your dedication to the correct physics.

692

00:37:10,800 --> 00:37:15,800

I am happy that I believe we can finally call a Breaking Bad Test plausible.

693

00:37:15,800 --> 00:37:18,800

Yeah, we finally got one.

694

00:37:18,800 --> 00:37:21,800

One out of three, that's not bad at all.

695

00:37:21,800 --> 00:37:23,800

That's good in baseball.

696

00:37:23,800 --> 00:37:28,800

Yep, it was unstable, volatile and dangerous.

697

00:37:28,800 --> 00:37:36,800

But given that the rig eventually worked and the bad guys were brought to justice, there's only one conclusion left to make.

698

00:37:36,800 --> 00:37:38,800

Plausible.

699

00:37:38,800 --> 00:37:40,800

Plausible.

700

00:37:40,800 --> 00:37:41,800

Plausible.

701

00:37:41,800 --> 00:37:43,800

Let's get out of here.

702

00:37:44,800 --> 00:37:48,800

Yes.

703

00:37:51,800 --> 00:37:53,800

Three, still to come.

704

00:37:53,800 --> 00:37:54,800

Two, there's fire.

705

00:37:54,800 --> 00:37:57,800

One, in the water hole.

706

00:38:05,800 --> 00:38:09,800

I know that some of you are probably thinking, what are you going to blow up a bomb in that lake?

707

00:38:09,800 --> 00:38:12,800

What are you going to kill the fish and the frogs and stuff?

708

00:38:12,800 --> 00:38:14,800

And that is totally reasonable to question.

709

00:38:14,800 --> 00:38:18,800

But let me explain that Pit 232 here is a quarry lake.

710

00:38:18,800 --> 00:38:23,800

As such, its pH level is slightly acidic, about 5.5.

711

00:38:23,800 --> 00:38:29,800

And because of that, even though you see the reeds around the edge, there are no living things within this lake.

712

00:38:29,800 --> 00:38:31,800

Nothing for us to kill.

713

00:38:31,800 --> 00:38:34,800

It's like perfect for blowing stuff up.

714

00:38:40,800 --> 00:38:47,800

Underwater explosion in three, two, one.

715

00:38:50,800 --> 00:38:53,800

Having failed to blow anything out of the water.

716

00:38:53,800 --> 00:38:55,800

Boy, that's anticlimactic.

717

00:38:55,800 --> 00:39:00,800

The guys have wired up a new detonation device that's good to go.

718

00:39:02,800 --> 00:39:03,800

Alright everybody.

719

00:39:03,800 --> 00:39:06,800

Fire in the hole! Fire in the hole!

720

00:39:07,800 --> 00:39:10,800

Blowing the boat out of the water for reels this time.

721

00:39:10,800 --> 00:39:15,800

In three, two, one, go.

722

00:39:27,800 --> 00:39:29,800

That was astonishing.

723

00:39:37,800 --> 00:39:40,800

What a geyser!

724

00:39:40,800 --> 00:39:44,800

We did blow the boat out of the water, but there is no more boat.

725

00:39:44,800 --> 00:39:49,800

I think technically what we did was we separated the boat into hundreds of little pieces, which we then blew out of the water.

726

00:39:49,800 --> 00:39:50,800

Yeah.

727

00:39:50,800 --> 00:39:51,800

That works.

728

00:39:51,800 --> 00:39:52,800

Okay.

729

00:39:52,800 --> 00:40:12,800

Well, our blast happened about 10 minutes ago and the surface of the water is still incredibly agitated.

730

00:40:12,800 --> 00:40:16,800

It's like the water is still reeling from what we did.

731

00:40:17,800 --> 00:40:24,800

Absolutely one of the most astonishing phenomena I have ever been lucky enough to witness.

732

00:40:24,800 --> 00:40:27,800

Unfortunately, we didn't blow the boat out of the water.

733

00:40:27,800 --> 00:40:30,800

We just blew the boat out of existence.

734

00:40:34,800 --> 00:40:40,800

The goal was to lift the intact boat up and out of the water, something that clearly didn't happen.

735

00:40:41,800 --> 00:40:47,800

So was it a case of too much explosive or is there another explanation at hand?

736

00:40:47,800 --> 00:40:51,800

I figured what actually happened here was really quite simple.

737

00:40:51,800 --> 00:41:00,800

When the bomb went off, it created a bubble of rapidly expanding gas, which eventually made its way to the surface of the water where the boat was.

738

00:41:00,800 --> 00:41:08,800

Now that opened effectively a conduit through which all of that energy could flow where it can follow a path of least resistance.

739

00:41:08,800 --> 00:41:12,800

And that happened to be straight up right through the bottom of that boat.

740

00:41:12,800 --> 00:41:14,800

And that's why it was so destructive.

741

00:41:14,800 --> 00:41:26,800

So the way I see it, unless the boat this is happening to is incredibly strong, there's no Goldilocks formula of amount and placement of explosive that is going to gently lift it out of the water.

742

00:41:26,800 --> 00:41:34,800

What's always going to happen is this literal upward facing cannon blast which is going to punch a hole and decimate the boat.

743

00:41:34,800 --> 00:41:38,800

And so as far as I'm concerned, it's not looking good for the myth.

744

00:41:39,800 --> 00:41:48,800

Jamie's theory seems sound and the footage of a near vertical blast with very little debris flung to the side does back it up.

745

00:41:49,800 --> 00:41:51,800

So what's the verdict?

746

00:41:53,800 --> 00:41:55,800

How do you want to call this?

747

00:41:55,800 --> 00:41:57,800

Busted. There's no boat left.

748

00:41:57,800 --> 00:42:04,800

We gave it our best shot. The small scale seemed to lead us to believe that this would work, but no, we blew it to smithereens. It's busted.

749

00:42:04,800 --> 00:42:06,800

Yeah, so what's next?

750

00:42:06,800 --> 00:42:09,800

Well, usually at the end of one of these episodes we walk off into the sunset.

751

00:42:09,800 --> 00:42:11,800

Sun's already set.

752

00:42:11,800 --> 00:42:13,800

Yeah, it has.

753

00:42:25,800 --> 00:42:28,800

you