



1
00:01:36,789 --> 00:00:03,909
i'm eric bowe of the sts-133 crew and

2
00:01:40,789 --> 00:01:38,870
good morning discovery

3
00:01:43,510 --> 00:01:40,799
you just listened to speed of sound by

4
00:01:48,149 --> 00:01:43,520
coldplay and eric bowe that song was for

5
00:01:51,670 --> 00:01:49,429
good morning mike

6
00:01:55,270 --> 00:01:51,680
it's been a great day in space i'd like

7
00:01:58,550 --> 00:01:55,280
to thank my family maddie tony and chris

8
00:02:01,270 --> 00:01:58,560
for sending up that song today

9
00:02:03,990 --> 00:02:01,280
the speed of sound reminds me of my

10
00:02:06,469 --> 00:02:04,000
passion for flying

11
00:02:10,070 --> 00:02:06,479
his face is that extension of aviation

12
00:02:13,830 --> 00:02:12,150
and what is what better way that

13
00:02:15,350 --> 00:02:13,840

embodies that concept

14

00:02:17,990 --> 00:02:15,360

our spine ship

15

00:02:19,110 --> 00:02:18,000

the space shuttle discovery launches as

16

00:02:21,270 --> 00:02:19,120

a rocket

17

00:02:22,710 --> 00:02:21,280

orbits as a spacecraft and returns to

18

00:02:24,550 --> 00:02:22,720

earth as an airplane

19

00:02:30,390 --> 00:02:24,560

we're ready for another great day in

20

00:02:34,309 --> 00:02:32,470

discovery mission specialist

21

00:02:36,550 --> 00:02:34,319

steve bowen and

22

00:02:38,070 --> 00:02:36,560

al drew shown here

23

00:02:40,309 --> 00:02:38,080

on your screen on the left is steve

24

00:02:42,150 --> 00:02:40,319

bowen he will be wearing the suit marked

25

00:02:44,229 --> 00:02:42,160

with the red stripes and audrey will be

26

00:02:46,630 --> 00:02:44,239

wearing all white this will be the

27

00:02:49,270 --> 00:02:46,640

seventh space walk for steve bowen and

28

00:02:52,550 --> 00:02:49,280

the second for aldrue

29

00:02:53,990 --> 00:02:52,560

the pair had spent the night in the

30

00:02:56,869 --> 00:02:54,000

quest airlock

31

00:02:59,110 --> 00:02:56,879

in preparation for the spacewalk

32

00:03:01,030 --> 00:02:59,120

our spacewalk is due to begin at 9 18

33

00:03:03,910 --> 00:03:01,040

a.m central time today although the crew

34

00:03:09,110 --> 00:03:03,920

is running ahead of schedule so far so

35

00:03:12,550 --> 00:03:10,949

our low ring had a bite taken out of it

36

00:03:15,030 --> 00:03:12,560

for whatever reason

37

00:03:17,350 --> 00:03:15,040

was making the whole suit leak

38

00:03:20,390 --> 00:03:17,360

so we found that out we were lucky to

39

00:03:21,830 --> 00:03:20,400

have a spare of the airlock here and put

40

00:03:24,390 --> 00:03:21,840

that on

41

00:03:26,710 --> 00:03:24,400

sealed him up and he's good and tight

42

00:03:28,710 --> 00:03:26,720

right now nicole's going to

43

00:03:30,390 --> 00:03:28,720

check off all the tools and bags and

44

00:03:32,309 --> 00:03:30,400

make sure everything is exactly where it

45

00:03:33,190 --> 00:03:32,319

should be

46

00:03:35,430 --> 00:03:33,200

nikki

47

00:03:39,030 --> 00:03:35,440

ain't nobody happy

48

00:03:39,040 --> 00:03:48,949

and in her diagrams

49

00:03:53,509 --> 00:03:50,789

the quest airlock is being taken back

50

00:03:56,149 --> 00:03:53,519

out from its 10.2 psi pressure back up

51
00:03:58,550 --> 00:03:56,159
to about 14.

52
00:04:00,309 --> 00:03:58,560
now that the crew is successfully sealed

53
00:04:01,910 --> 00:04:00,319
up inside both of their spacesuits they

54
00:04:14,710 --> 00:04:01,920
can take the pressure back up to sea

55
00:04:18,789 --> 00:04:16,390
okay katie we concur with that if you

56
00:04:22,310 --> 00:04:18,799
could get a picture of that uh we'll put

57
00:04:24,390 --> 00:04:22,320
it for the uof7 procedure

58
00:04:26,469 --> 00:04:24,400
okay copy that and with that now you can

59
00:04:29,830 --> 00:04:26,479
remove your waste tether from the ford

60
00:04:30,950 --> 00:04:29,840
uia d-ring and e-glass air lock okay all

61
00:04:43,350 --> 00:04:30,960
right

62
00:04:45,430 --> 00:04:43,360
you're both comfortable we'll take your

63
00:04:47,909 --> 00:04:45,440

top to bottom checks and steve once

64

00:04:49,590 --> 00:04:47,919

again for you uh we'll be looking um

65

00:04:51,990 --> 00:04:49,600

after al at the store whether you got a

66

00:04:53,670 --> 00:04:52,000

green light or not and if you do we'll

67

00:05:01,990 --> 00:04:53,680

probably be asking you to cycle your tv

68

00:05:04,550 --> 00:05:03,189

and i'm sorry i didn't mention it now

69

00:05:06,230 --> 00:05:04,560

but you do need to squeeze the trigger

70

00:05:10,950 --> 00:05:06,240

to get that off of there yeah i'm

71

00:05:10,960 --> 00:05:31,909

a lot of travel on that trigger

72

00:05:36,469 --> 00:05:33,830

and nicole just a couple things uh for

73

00:05:38,790 --> 00:05:36,479

al if we could get the final apfr

74

00:05:41,749 --> 00:05:38,800

settings that he he put that in we'll

75

00:05:42,629 --> 00:05:41,759

take those numbers and a great job with

76

00:05:44,469 --> 00:05:42,639

al

77

00:05:47,350 --> 00:05:44,479

moderating his pace everything's working

78

00:05:47,360 --> 00:05:50,830

that's good to know

79

00:05:54,150 --> 00:05:52,029

okay for

80

00:05:56,550 --> 00:05:54,160

watching for justice publishers would

81

00:05:58,150 --> 00:05:56,560

you recommend it no modifications

82

00:06:03,029 --> 00:05:58,160

all right so that would be sponsored

83

00:06:10,629 --> 00:06:05,510

okay and when you are ready

84

00:06:14,550 --> 00:06:13,270

is off the frame and in my hands

85

00:06:16,070 --> 00:06:14,560

all right and when you're comfortable

86

00:06:17,749 --> 00:06:16,080

you can give mike to go to the back off

87

00:06:19,350 --> 00:06:17,759

position mike you have to go to proceed

88

00:06:21,430 --> 00:06:19,360

to the back off position

89

00:06:25,350 --> 00:06:21,440

happy that steve great work arm's coming

90

00:06:29,590 --> 00:06:27,029

okay copy you're recommending the nader

91

00:06:30,390 --> 00:06:29,600

route and he'll go out to x-paka first

92

00:06:34,070 --> 00:06:30,400

and then

93

00:07:01,110 --> 00:06:34,080

stop along the way back for the sunshade

94

00:07:04,550 --> 00:07:02,950

one hour and 37 minutes into today's

95

00:07:05,990 --> 00:07:04,560

spacewalk there's a shot of steve bowen

96

00:07:08,790 --> 00:07:06,000

still on the end of the station's

97

00:07:10,790 --> 00:07:08,800

robotic arm

98

00:07:13,830 --> 00:07:10,800

he is on his way over to discovery's

99

00:07:49,990 --> 00:07:13,840

payload bay to install this

100

00:07:54,230 --> 00:07:51,670

and about a meter to go steve that

101
00:07:55,990 --> 00:07:54,240
sounds just all right mike

102
00:08:04,150 --> 00:07:56,000
i've got a good eye on

103
00:08:08,950 --> 00:08:06,869
helmet cam using a wire tie

104
00:08:10,390 --> 00:08:08,960
as a potential tether point if he does

105
00:08:13,189 --> 00:08:10,400
plan to use that you need to make sure

106
00:08:15,670 --> 00:08:13,199
there's three twists in that wire tie

107
00:08:17,430 --> 00:08:15,680
uh copy that out copy

108
00:08:19,830 --> 00:08:17,440
okay i understand i'll put three twists

109
00:08:23,110 --> 00:08:21,589
and now just to check to make sure the

110
00:08:37,909 --> 00:08:23,120
velcro straps are folded back on

111
00:08:41,990 --> 00:08:39,589
with the white crosshairs on it that

112
00:08:44,149 --> 00:08:42,000
looks flush on the

113
00:08:49,430 --> 00:08:44,159

oh yeah that's flush

114

00:08:52,829 --> 00:08:50,870

let's get to know

115

00:08:56,630 --> 00:08:52,839

okay let me get set

116

00:08:58,070 --> 00:08:56,640

up and then once you get that

117

00:09:00,310 --> 00:08:58,080

scoop back in there we'll do a bag

118

00:09:03,590 --> 00:09:00,320

inventory

119

00:09:05,509 --> 00:09:03,600

and then you are going to give mike

120

00:09:07,430 --> 00:09:05,519

um go to get to go to the back off

121

00:09:12,389 --> 00:09:07,440

position okay let me get the scoop in

122

00:09:17,190 --> 00:09:14,070

and al how do you copy

123

00:09:18,870 --> 00:09:17,200

i copy nicole i'm at that camera body

124

00:09:25,350 --> 00:09:18,880

right now looking at the sunshade that's

125

00:09:30,070 --> 00:09:27,829

this is a task that was added in to al

126

00:09:31,350 --> 00:09:30,080

drew's timeline for today's spacewalk

127

00:09:33,190 --> 00:09:31,360

there's a camera that is out there on

128

00:09:36,230 --> 00:09:33,200

the starboard one truss that's the

129

00:09:38,230 --> 00:09:36,240

right-hand truss of the space station

130

00:09:41,430 --> 00:09:38,240

and one of the solar covers that's on

131

00:09:43,509 --> 00:09:41,440

the camera itself had

132

00:09:45,110 --> 00:09:43,519

come loose a little bit or gotten moved

133

00:09:46,630 --> 00:09:45,120

around so it was blocking part of the

134

00:09:49,030 --> 00:09:46,640

view in the upper right hand portion of

135

00:09:51,110 --> 00:09:49,040

the screen

136

00:09:53,269 --> 00:09:51,120

so he will go out there and fix that to

137

00:09:55,110 --> 00:09:53,279

give us a better view

138

00:09:56,230 --> 00:09:55,120

of that camera do you guys have a view

139

00:09:57,990 --> 00:09:56,240

that's gonna

140

00:09:59,590 --> 00:09:58,000

allow you to tell whether al has it or

141

00:10:01,829 --> 00:09:59,600

not

142

00:10:04,470 --> 00:10:01,839

and uh nicole we're looking at is wbs

143

00:10:06,389 --> 00:10:04,480

and uh as he shifts uh actually we have

144

00:10:08,150 --> 00:10:06,399

a good view now and we're we're watching

145

00:10:10,470 --> 00:10:08,160

and we'll give you some more here in a

146

00:10:11,269 --> 00:10:10,480

second

147

00:10:21,750 --> 00:10:11,279

okay

148

00:10:43,990 --> 00:10:21,760

us a minute we'll get into manual for

149

00:10:46,870 --> 00:10:45,670

and you can get mike to go to the back

150

00:10:48,470 --> 00:10:46,880

off position and then you guys are going

151
00:10:50,710 --> 00:10:48,480
to hang at the back off position until

152
00:10:52,230 --> 00:10:50,720
we get the call on the clta power up

153
00:10:53,910 --> 00:10:52,240
okay i'm ready to see the backup

154
00:10:55,829 --> 00:10:53,920
position mike

155
00:11:04,710 --> 00:10:55,839
okay copy that go to the back off

156
00:11:08,790 --> 00:11:07,190
and steve once you get the uh mri in the

157
00:11:10,389 --> 00:11:08,800
bag i'll take another love check from

158
00:11:21,190 --> 00:11:10,399
you okay let me get some stuff we're

159
00:11:26,829 --> 00:11:24,230
houston discovery eda

160
00:11:31,509 --> 00:11:29,430
discovery okay steve has completed the

161
00:11:35,750 --> 00:11:31,519
work in the spdm area and you're going

162
00:11:42,230 --> 00:11:38,230
copy go to take clp one operational

163
00:11:47,030 --> 00:11:43,590

all right we're on the flight deck uh

164

00:11:49,430 --> 00:11:47,040

watching eva2 and nicole is uh working

165

00:11:51,030 --> 00:11:49,440

as the quarterback making it happen how

166

00:11:52,710 --> 00:11:51,040

where are we and how are we doing we're

167

00:11:55,350 --> 00:11:52,720

doing really well they've been following

168

00:11:56,949 --> 00:11:55,360

instructions exceptionally well today

169

00:12:01,910 --> 00:11:56,959

as i boss them around

170

00:12:04,470 --> 00:12:03,670

moving really nicely through the tasks

171

00:12:05,829 --> 00:12:04,480

um

172

00:12:07,750 --> 00:12:05,839

several of the things that we thought we

173

00:12:09,350 --> 00:12:07,760

might have issues with just because of

174

00:12:11,110 --> 00:12:09,360

the way the hardware is when we worked

175

00:12:13,430 --> 00:12:11,120

in the pool it just went so smoothly

176
00:12:15,269 --> 00:12:13,440
here today and um i was moving back to

177
00:12:17,350 --> 00:12:15,279
the airlock to plug into some oxygen for

178
00:12:19,829 --> 00:12:17,360
a little bit and pick up another bag to

179
00:12:21,910 --> 00:12:19,839
move on to another task and steve is out

180
00:12:23,430 --> 00:12:21,920
still on the end of the arm finishing up

181
00:12:25,509 --> 00:12:23,440
some work that he was doing out on the

182
00:12:28,069 --> 00:12:25,519
spdm

183
00:12:29,829 --> 00:12:28,079
al drew slightly behind his timeline

184
00:12:41,190 --> 00:12:29,839
among the tasks that have been moved are

185
00:12:44,790 --> 00:12:42,710
we're still seeing good clearance we're

186
00:12:53,350 --> 00:12:44,800
just about there but we want to be sure

187
00:12:53,360 --> 00:12:57,350
my gloves are good

188
00:13:07,910 --> 00:12:59,829

you'll be going back to your back

189

00:13:13,190 --> 00:13:10,069

and you're going to release both

190

00:13:44,710 --> 00:13:13,200

six turns only okay both bolts six turns

191

00:13:44,720 --> 00:13:51,269

six turns on the four pull

192

00:13:55,910 --> 00:13:52,790

and now i just want to stand by i don't

193

00:13:57,110 --> 00:13:55,920

have any uh crib sheets for this and um

194

00:13:58,470 --> 00:13:57,120

to see if we should just go ahead and

195

00:14:09,590 --> 00:13:58,480

try the act

196

00:14:13,829 --> 00:14:11,750

what we'd like you to do is use the ptt

197

00:14:14,629 --> 00:14:13,839

to depress the bolt if that doesn't work

198

00:14:16,629 --> 00:14:14,639

then

199

00:14:17,829 --> 00:14:16,639

i will have more words for you i haven't

200

00:14:21,030 --> 00:14:17,839

done that already

201
00:14:25,509 --> 00:14:23,350
yeah tim he's worked both with the pgt

202
00:14:31,750 --> 00:14:25,519
and by hand to try to engage the app

203
00:14:39,910 --> 00:14:33,030
can we copy that nicole and we're

204
00:14:44,550 --> 00:14:42,550
steve bowen back to the airlock to

205
00:14:46,389 --> 00:14:44,560
pick up a bag with parts that will be

206
00:14:48,069 --> 00:14:46,399
needed for the remaining tasks on the

207
00:14:50,150 --> 00:14:48,079
spacewalk

208
00:14:52,629 --> 00:14:50,160
al drew is out on the portside trust

209
00:14:57,110 --> 00:14:52,639
discover eda

210
00:15:02,870 --> 00:14:59,750
yep just for uh clta2 just to make sure

211
00:15:02,880 --> 00:15:09,990
and we're checking

212
00:15:17,750 --> 00:15:12,629
how'd it go out okay i have three turns

213
00:15:24,710 --> 00:15:20,790

discovery houston eva clp2 is in a good

214

00:15:29,910 --> 00:15:28,310

okay copy that and uh now let's move on

215

00:15:31,829 --> 00:15:29,920

to the next step

216

00:15:33,030 --> 00:15:31,839

okay ready

217

00:15:36,470 --> 00:15:33,040

we're going to increase the torque on

218

00:15:43,269 --> 00:15:37,749

are you ready

219

00:15:46,069 --> 00:15:45,189

jfc bravo

220

00:15:47,829 --> 00:15:46,079

three

221

00:15:50,550 --> 00:15:47,839

black claws one

222

00:15:52,310 --> 00:15:50,560

that's going to be 18.4 for film shorts

223

00:16:05,509 --> 00:15:52,320

starting with the four volt that's

224

00:16:10,470 --> 00:16:07,110

and now it's uh

225

00:16:11,990 --> 00:16:10,480

handrail 3666 for the

226

00:16:36,550 --> 00:16:12,000

brt location

227

00:16:40,870 --> 00:16:38,550

and when you get to your bag out you can

228

00:16:57,829 --> 00:16:40,880

stow the socket caddy

229

00:17:02,150 --> 00:16:59,430

okay we'll work the

230

00:17:04,230 --> 00:17:02,160

zip nuts and then stand by for any turns

231

00:17:09,029 --> 00:17:04,240

on the bolts

232

00:17:13,110 --> 00:17:10,789

all right first thing now is just once

233

00:17:14,870 --> 00:17:13,120

you get configured there to uh wiggle

234

00:17:21,110 --> 00:17:14,880

the beam and the bolts

235

00:17:25,189 --> 00:17:22,949

algeria has completed tightening up one

236

00:17:27,829 --> 00:17:25,199

of the uh radiator stowage beams and is

237

00:17:32,310 --> 00:17:27,839

now moved to the second one we'll repeat

238

00:17:35,830 --> 00:17:33,590

i think i can do this one without the

239

00:17:47,430 --> 00:17:35,840

scoop

240

00:17:51,350 --> 00:17:49,110

and al just a question for real did you

241

00:17:53,350 --> 00:17:51,360

have to grab a green fairly hook no i

242

00:17:57,510 --> 00:17:53,360

did not it made it all the way out

243

00:18:01,669 --> 00:18:00,070

okay and you're gonna head back and you

244

00:18:03,590 --> 00:18:01,679

can drop off your bag if you want at the

245

00:18:19,190 --> 00:18:03,600

airlock and then you'll be going up for

246

00:18:24,230 --> 00:18:21,669

and in this view you can see steve bowen

247

00:18:25,510 --> 00:18:24,240

maneuvering around the underside of the

248

00:18:27,190 --> 00:18:25,520

quest airlock

249

00:18:29,430 --> 00:18:27,200

now is right on the other side of the

250

00:18:31,029 --> 00:18:29,440

lab from steve and you they

251
00:18:32,710 --> 00:18:31,039
are almost able to see each other's

252
00:18:37,190 --> 00:18:32,720
boots

253
00:18:40,390 --> 00:18:38,870
he might look over the nature start

254
00:18:41,669 --> 00:18:40,400
that's exactly where i'm coming from

255
00:18:42,950 --> 00:18:41,679
okay

256
00:18:45,270 --> 00:18:42,960
and discovery forward plan for the

257
00:18:47,350 --> 00:18:45,280
helmet light

258
00:18:48,549 --> 00:18:47,360
i was just there actually

259
00:18:51,029 --> 00:18:48,559
go ahead

260
00:18:52,549 --> 00:18:51,039
and what we'd like to try is for steve

261
00:18:54,070 --> 00:18:52,559
to see if he can't reinstall those

262
00:18:55,350 --> 00:18:54,080
helmet lights

263
00:18:57,830 --> 00:18:55,360

while they're still tethered by the

264

00:18:59,190 --> 00:18:57,840

cable if that is no joy

265

00:19:00,950 --> 00:18:59,200

and with the gloves that may be a

266

00:19:04,150 --> 00:19:00,960

different challenging task then we'd

267

00:19:06,390 --> 00:19:04,160

like to have al uh hand them a rent from

268

00:19:07,990 --> 00:19:06,400

al's mini workstation onto those helmet

269

00:19:12,549 --> 00:19:08,000

lights and then we'll just carry them

270

00:19:17,669 --> 00:19:15,029

okay and uh stephen I do you copy thank

271

00:19:28,230 --> 00:19:17,679

you i'll be dropping

272

00:19:28,240 --> 00:19:34,549

it is the only one here

273

00:19:42,390 --> 00:19:36,070

how's it going al

274

00:19:42,400 --> 00:19:50,710

all right okay give this best shot okay

275

00:19:55,350 --> 00:19:53,350

this is uh steve bowen's seventh space

276

00:19:58,230 --> 00:19:55,360

walk so he's got plenty of experience

277

00:19:59,750 --> 00:19:58,240

with the hardware

278

00:20:03,350 --> 00:19:59,760

trying to get that uh

279

00:20:07,510 --> 00:20:04,870

get those lights reattached to the

280

00:20:11,830 --> 00:20:07,520

helmet

281

00:20:17,110 --> 00:20:13,830

the space walker's been told the plan

282

00:20:18,549 --> 00:20:17,120

will be to unplug that and secure it

283

00:20:26,070 --> 00:20:18,559

and they'll continue with the tasks on

284

00:20:35,590 --> 00:20:30,230

yeah that's what i'm looking at okay

285

00:20:40,390 --> 00:20:38,789

well what have you been doing

286

00:20:42,630 --> 00:20:40,400

i know we gave these really good shakes

287

00:20:54,310 --> 00:20:42,640

yesterday

288

00:20:54,320 --> 00:20:59,350

discovery for eva

289

00:21:03,590 --> 00:21:01,669

go ahead preview

290

00:21:04,710 --> 00:21:03,600

yeah uh this is about as much time as

291

00:21:06,149 --> 00:21:04,720

flight wants to spend trying to get

292

00:21:08,549 --> 00:21:06,159

these helmet lights reinstalled so we'd

293

00:21:12,870 --> 00:21:08,559

like to break off for now get a ride on

294

00:21:16,390 --> 00:21:13,750

all right

295

00:21:24,789 --> 00:21:16,400

let me try one second

296

00:21:34,310 --> 00:21:26,549

that's not going to work

297

00:21:40,070 --> 00:21:36,390

red is the acronym for retractable

298

00:21:47,830 --> 00:21:41,430

is there a preferred spot you want me to

299

00:21:51,110 --> 00:21:49,110

yeah we're checking

300

00:21:52,630 --> 00:21:51,120

where's that okay

301
00:21:54,950 --> 00:21:52,640
uh anywhere on the bracket of the helmet

302
00:21:56,149 --> 00:21:54,960
light is good

303
00:22:10,470 --> 00:21:56,159
okay

304
00:22:12,950 --> 00:22:11,750
and stand by nicole we're double

305
00:22:16,390 --> 00:22:12,960
checking

306
00:22:20,710 --> 00:22:18,230
this is steve bowen's helmet camera view

307
00:22:22,549 --> 00:22:20,720
as he translates back from the zarya

308
00:22:24,549 --> 00:22:22,559
module

309
00:22:26,230 --> 00:22:24,559
headed for the airlock

310
00:22:30,630 --> 00:22:26,240
stopping at the seat of spur on the way

311
00:22:34,789 --> 00:22:33,350
aldrue is back in the airlock and is

312
00:22:37,110 --> 00:22:34,799
conducting a

313
00:22:41,510 --> 00:22:37,120

mini workstation audit with

314

00:22:43,029 --> 00:22:41,520

intravehicular crew member nicole stott

315

00:22:45,430 --> 00:22:43,039

now i'm trying to remember that wire tie

316

00:22:48,470 --> 00:22:45,440

might have been um didn't use any up on

317

00:22:49,990 --> 00:22:48,480

the pump module today i don't think

318

00:22:51,870 --> 00:22:50,000

let's see transmit

319

00:23:01,029 --> 00:22:51,880

throw it off with

320

00:23:20,070 --> 00:23:03,190

i'm coming up okay i'm staying low and

321

00:23:22,630 --> 00:23:20,830

this

322

00:23:23,590 --> 00:23:22,640

week

323

00:23:26,390 --> 00:23:23,600

especially

324

00:23:40,870 --> 00:23:26,400

too badly today

325

00:23:51,510 --> 00:23:43,430

your foot out can i get it clear bring

326
00:23:57,269 --> 00:23:54,070
all right

327
00:24:05,430 --> 00:23:57,279
looks like that cover works a little

328
00:24:09,029 --> 00:24:07,269
and we see the

329
00:24:11,110 --> 00:24:09,039
hatching to the

330
00:24:13,830 --> 00:24:11,120
crew lock section of the quest airlock

331
00:24:16,149 --> 00:24:13,840
is now opened as it's been

332
00:24:19,110 --> 00:24:16,159
had its pressure equalized with the rest

333
00:24:22,390 --> 00:24:19,120
of the inside of the station

334
00:24:24,870 --> 00:24:22,400
mike barrett and paolo nespoli now

335
00:24:27,430 --> 00:24:24,880
helping steve bowen and al drew back

336
00:24:29,990 --> 00:24:27,440
into the airlock

337
00:24:44,310 --> 00:24:30,000
after their six hour 14 minute long

338
00:24:47,430 --> 00:24:45,590

alright the guys really appreciate it

339

00:24:49,269 --> 00:24:47,440

for the words thanks very much and we're

340

00:24:51,909 --> 00:24:49,279

just real happy to shut these oysters

341

00:25:01,510 --> 00:24:51,919

and get them some food

342

00:25:04,789 --> 00:25:03,029

is coming out

343

00:25:06,630 --> 00:25:04,799

actually there's a lot more steps to

344

00:25:07,830 --> 00:25:06,640

really freeing robonaut but this is the

345

00:25:09,909 --> 00:25:07,840

beginning

346

00:25:11,990 --> 00:25:09,919

is to unstrap

347

00:25:15,350 --> 00:25:12,000

this foam enclosure

348

00:25:16,149 --> 00:25:15,360

and start the process

349

00:25:18,149 --> 00:25:16,159

of

350

00:25:20,149 --> 00:25:18,159

releasing our guy

351

00:25:21,909 --> 00:25:20,159

all right that's good now

352

00:25:24,549 --> 00:25:21,919

we need to locate

353

00:25:25,909 --> 00:25:24,559

yeah but before we bring him out of here

354

00:25:37,510 --> 00:25:25,919

have you guys looked at the space that

355

00:25:45,750 --> 00:25:39,669

this is robonaut being introduced to his

356

00:25:45,760 --> 00:25:49,750

he's very big

357

00:25:49,760 --> 00:26:05,269

hopefully he won't take over like now

358

00:26:17,269 --> 00:26:07,269

okay

359

00:26:17,279 --> 00:26:26,230

he's got his own patch

360

00:26:29,750 --> 00:26:28,390

this is mission control houston

361

00:26:31,830 --> 00:26:29,760

a view of

362

00:26:33,909 --> 00:26:31,840

space shuttle discovery from cameras on

363

00:26:37,350 --> 00:26:33,919

the international space station the two

364

00:26:39,909 --> 00:26:37,360

vehicles are flying 221 miles above far

365

00:26:41,750 --> 00:26:39,919

eastern canada just about to cross out

366

00:26:44,710 --> 00:26:41,760

over the atlantic ocean