



1
00:00:28,390 --> 00:00:02,429
i'm drew feustel with the

2
00:00:33,910 --> 00:00:30,950
she spends an hour

3
00:00:39,750 --> 00:00:33,920
she is dancing through the cosmos

4
00:00:47,430 --> 00:00:42,310
loud and proud

5
00:00:54,549 --> 00:00:51,029
and we all do

6
00:01:03,349 --> 00:00:56,150
to make

7
00:01:03,359 --> 00:01:12,149
is

8
00:01:12,159 --> 00:01:17,350
i see

9
00:01:17,360 --> 00:01:26,630
you feel the same

10
00:01:32,870 --> 00:01:28,550
good morning endeavor and a special good

11
00:01:35,830 --> 00:01:34,789
well good morning houston good morning

12
00:01:38,630 --> 00:01:35,840
shannon

13
00:01:40,950 --> 00:01:38,640

and uh thanks that's a great song and it

14

00:01:43,190 --> 00:01:40,960

was written by my friend dan keenan and

15

00:01:45,429 --> 00:01:43,200

kenny mclaughlin they work on the

16

00:01:47,510 --> 00:01:45,439

thermal protection system team and it's

17

00:01:49,350 --> 00:01:47,520

a tribute to all the workers on endeavor

18

00:01:52,469 --> 00:01:49,360

and our sister shuttles

19

00:01:54,389 --> 00:01:52,479

and so to all of our friends we salute

20

00:01:58,550 --> 00:01:54,399

we salute you at the kennedy space

21

00:02:03,510 --> 00:02:01,429

and houston endeavor on two yeah i uh i

22

00:02:04,870 --> 00:02:03,520

threw both icon loop stuff just to make

23

00:02:08,550 --> 00:02:04,880

sure mark could hear me because he had

24

00:02:12,229 --> 00:02:08,560

called before didn't answer

25

00:02:15,750 --> 00:02:13,589

this is mission control houston

26
00:02:17,270 --> 00:02:15,760
receiving some live downlink video from

27
00:02:20,830 --> 00:02:17,280
in the quest airlock module of the

28
00:02:23,830 --> 00:02:20,840
international space station as

29
00:02:26,550 --> 00:02:23,840
commander mark kelly and

30
00:02:29,030 --> 00:02:26,560
expedition 27 flight engineer ron garan

31
00:02:30,390 --> 00:02:29,040
uh work to help prepare the space suits

32
00:02:32,309 --> 00:02:30,400
the tools and equipment that will be

33
00:02:34,470 --> 00:02:32,319
used by du feustel and greg shamatoff on

34
00:02:46,070 --> 00:02:34,480
the first of the four planned spacewalks

35
00:02:49,990 --> 00:02:48,229
you're looking over the shoulder of

36
00:02:51,750 --> 00:02:50,000
shuttle commander mark kelly as he

37
00:02:55,190 --> 00:02:51,760
attaches the

38
00:02:56,229 --> 00:02:55,200

simplified aid for eva rescue the safer

39

00:03:06,550 --> 00:02:56,239

device

40

00:03:07,990 --> 00:03:06,560

gas compressed nitrogen that allows crew

41

00:03:10,309 --> 00:03:08,000

members if they

42

00:03:12,710 --> 00:03:10,319

inadvertently became untethered from the

43

00:03:14,550 --> 00:03:12,720

station and

44

00:03:17,589 --> 00:03:14,560

floated away from the complex could

45

00:03:19,750 --> 00:03:17,599

actually activate the safer device

46

00:03:21,509 --> 00:03:19,760

and

47

00:03:23,190 --> 00:03:21,519

fly themselves

48

00:03:27,670 --> 00:03:23,200

back to the

49

00:03:28,869 --> 00:03:27,680

confines the safety of the space station

50

00:03:40,789 --> 00:03:28,879

houston

51
00:03:46,710 --> 00:03:43,910
and we're ready for step 42 if uh

52
00:03:48,710 --> 00:03:46,720
if you concur

53
00:03:50,869 --> 00:03:48,720
crew will check with mission control one

54
00:03:52,070 --> 00:03:50,879
more time before going

55
00:03:53,910 --> 00:03:52,080
giving them a go for the

56
00:03:57,589 --> 00:03:53,920
depressurization

57
00:04:02,710 --> 00:03:58,830
still looking at

58
00:04:04,309 --> 00:04:02,720
a start time of the eva somewhere around

59
00:04:05,589 --> 00:04:04,319
2 15

60
00:04:07,910 --> 00:04:05,599
this morning

61
00:04:18,870 --> 00:04:07,920
central time 3 15

62
00:04:18,880 --> 00:04:24,790
first out of the hatch is drew feustel

63
00:04:34,070 --> 00:04:26,390

i'm out of your way

64

00:04:38,629 --> 00:04:36,390

headed headed toward an orbital sunset

65

00:04:40,550 --> 00:04:38,639

uh here in just a couple of minutes as

66

00:04:42,070 --> 00:04:40,560

the international space station and

67

00:04:43,189 --> 00:04:42,080

space shuttle

68

00:04:46,790 --> 00:04:43,199

endeavour

69

00:04:50,469 --> 00:04:46,800

travel 215 miles above the northern

70

00:04:53,830 --> 00:04:52,390

i just wanted to say

71

00:04:56,390 --> 00:04:53,840

welcome back to

72

00:04:59,670 --> 00:04:56,400

open space and taz congratulations on

73

00:05:01,590 --> 00:04:59,680

being the 201st human being to be in

74

00:05:04,469 --> 00:05:01,600

outer space i waited a long time to say

75

00:05:06,070 --> 00:05:04,479

those words to you congratulations

76

00:05:10,150 --> 00:05:06,080

thanks big thank you you know it's a

77

00:05:13,510 --> 00:05:11,830

andrew it's a little early but along the

78

00:05:16,550 --> 00:05:13,520

way uh

79

00:05:18,870 --> 00:05:16,560

there is an opportunity for an ams photo

80

00:05:21,029 --> 00:05:18,880

for the timeline copy that and i think i

81

00:05:23,189 --> 00:05:21,039

got a fair lead on three four six seven

82

00:05:27,350 --> 00:05:23,199

here

83

00:05:44,230 --> 00:05:27,360

467 that's s0 and that's day one good

84

00:05:47,909 --> 00:05:45,990

unfortunately it's night time right now

85

00:05:48,870 --> 00:05:47,919

spanky

86

00:05:50,710 --> 00:05:48,880

yep

87

00:05:52,790 --> 00:05:50,720

so on

88

00:05:54,469 --> 00:05:52,800

other opportunities and also we have

89

00:05:56,469 --> 00:05:54,479

some pretty good views of ams from the

90

00:06:03,830 --> 00:05:56,479

flight thing because i can see you from

91

00:06:08,870 --> 00:06:06,230

drew good checks uh you're to continue

92

00:06:13,430 --> 00:06:08,880

outboards of day 19 and you're going to

93

00:06:18,230 --> 00:06:13,440

stow your cedar bag on s3 handrail 30 46

94

00:06:42,150 --> 00:06:22,390

the mine's closed about the silver boxes

95

00:06:42,160 --> 00:06:46,150

i got one chin open

96

00:06:48,950 --> 00:06:47,749

try to try to go for the bottom one

97

00:07:03,909 --> 00:06:48,960

first because that one's holding you

98

00:07:03,919 --> 00:07:07,670

and taz you're looking for

99

00:07:22,870 --> 00:07:08,870

a

100

00:07:29,510 --> 00:07:26,230

drew feustel the you see

101
00:07:31,670 --> 00:07:29,520
carrying the materials iss experiment or

102
00:07:33,990 --> 00:07:31,680
retrieved that will be returned home

103
00:07:36,469 --> 00:07:34,000
he's going to put that in the

104
00:07:47,589 --> 00:07:36,479
shuttle's payload bay

105
00:07:52,390 --> 00:07:49,510
between the us laboratory

106
00:07:58,070 --> 00:07:52,400
destiny and the unity module the first

107
00:08:01,749 --> 00:07:59,510
feet two feet

108
00:08:03,510 --> 00:08:01,759
that uh

109
00:08:05,350 --> 00:08:03,520
getting better the correction that's uh

110
00:08:07,510 --> 00:08:05,360
greg chamotov with the broken red

111
00:08:13,510 --> 00:08:07,520
stripes on his suit

112
00:08:13,520 --> 00:08:27,189
coming up to the eva translation aids

113
00:08:32,310 --> 00:08:30,150

the stowage of the missy 7 experiment

114

00:08:34,949 --> 00:08:32,320

that has been located on the station

115

00:08:40,310 --> 00:08:34,959

that experiment is coming home

116

00:08:47,350 --> 00:08:42,149

as far down as it'll go

117

00:08:47,360 --> 00:08:51,910

one hour 34 minutes into the space walk

118

00:08:56,870 --> 00:08:54,710

view from drew feustel's helmet camera

119

00:08:58,389 --> 00:08:56,880

as he is

120

00:09:00,630 --> 00:08:58,399

back up at the

121

00:09:03,590 --> 00:09:00,640

location where the missy 8 or the

122

00:09:04,870 --> 00:09:03,600

materials iss experiment will be

123

00:09:06,310 --> 00:09:04,880

deployed

124

00:09:11,350 --> 00:09:06,320

on the

125

00:09:11,360 --> 00:09:35,990

and debra houston for eva

126

00:09:46,870 --> 00:09:39,350

thank you pictures are complete

127

00:09:55,670 --> 00:09:49,750

so uh you're now going to go to the ceta

128

00:10:00,070 --> 00:09:57,269

a little more than two hours into the

129

00:10:03,030 --> 00:10:00,080

space walk now this view from

130

00:10:06,710 --> 00:10:03,040

greg chatatov's helmet cam

131

00:10:09,030 --> 00:10:06,720

as he uh is in the steps associated with

132

00:10:13,269 --> 00:10:09,040

uh installing a light

133

00:10:18,230 --> 00:10:13,279

on a cedar cart on the uh

134

00:10:21,910 --> 00:10:20,790

yep grab the sarge cover and with the

135

00:10:23,829 --> 00:10:21,920

pgt

136

00:10:26,069 --> 00:10:23,839

and the n2 vent tool and the storage

137

00:10:27,350 --> 00:10:26,079

cover you're clear to go to the outboard

138

00:10:28,150 --> 00:10:27,360

to the sarge

139

00:10:29,670 --> 00:10:28,160

and

140

00:10:31,590 --> 00:10:29,680

i think you remember the translation if

141

00:10:36,550 --> 00:10:31,600

you need any help just let us know and

142

00:10:42,310 --> 00:10:39,350

as i think those checks were good enough

143

00:10:44,790 --> 00:10:42,320

uh the ceta bag is as expected so you

144

00:10:47,509 --> 00:10:44,800

can kind of close it up and get it onto

145

00:10:49,990 --> 00:10:47,519

your brt with the red and then head back

146

00:10:51,670 --> 00:10:50,000

to the airlock okay it works yeah those

147

00:10:52,630 --> 00:10:51,680

two two rocks with the pins at a big

148

00:10:54,870 --> 00:10:52,640

small

149

00:10:56,470 --> 00:10:54,880

plus two adjustables on the outside

150

00:10:58,949 --> 00:10:56,480

thank you good inventory appreciate your

151
00:11:03,670 --> 00:11:01,750
yeah i'm at the cover 7 location

152
00:11:06,710 --> 00:11:03,680
just quite a far distance from where taz

153
00:11:12,069 --> 00:11:09,750
like ready for settings

154
00:11:15,590 --> 00:11:12,079
your pgt will be alpha one

155
00:11:17,990 --> 00:11:15,600
clockwise two and uh you're expecting uh

156
00:11:19,509 --> 00:11:18,000
nine turns don't go beyond nine turns uh

157
00:11:22,710 --> 00:11:19,519
unless you need to and then you'll go

158
00:11:25,190 --> 00:11:22,720
well uh one at a time you have six bolts

159
00:11:27,269 --> 00:11:25,200
and give you green light and both seated

160
00:11:29,509 --> 00:11:27,279
for each one

161
00:11:31,990 --> 00:11:29,519
alpha one clockwise two

162
00:11:34,710 --> 00:11:32,000
nine turns looking for seated

163
00:11:40,389 --> 00:11:34,720

and uh proper installation overall

164

00:11:45,670 --> 00:11:42,550

well uh drew feustel

165

00:11:47,190 --> 00:11:45,680

uh wraps up installation of a protective

166

00:11:50,629 --> 00:11:47,200

cover over one of the

167

00:11:52,470 --> 00:11:50,639

sections of the solar alpha rotary joint

168

00:11:54,550 --> 00:11:52,480

greg chamitov is heading back to the

169

00:11:59,030 --> 00:11:54,560

airlock for a quick uh

170

00:12:09,430 --> 00:11:59,040

recharge on his o2 the o2 of his suit

171

00:12:13,030 --> 00:12:11,269

after you've read it to both the

172

00:12:15,030 --> 00:12:13,040

handrail and the cap

173

00:12:17,750 --> 00:12:15,040

here to remove the cap from m2 and

174

00:12:20,550 --> 00:12:17,760

you'll just leave it there

175

00:12:23,750 --> 00:12:20,560

normal cover closed

176
00:12:26,310 --> 00:12:23,760
copy pad and it's now your turn to uh go

177
00:12:27,910 --> 00:12:26,320
underneath the uh

178
00:12:29,910 --> 00:12:27,920
uh the dreaded mt

179
00:12:31,350 --> 00:12:29,920
and uh you're headed to

180
00:12:33,350 --> 00:12:31,360
uh kind of

181
00:12:34,150 --> 00:12:33,360
the zenith route where you'll watch out

182
00:12:36,949 --> 00:12:34,160
for

183
00:12:39,750 --> 00:12:36,959
a cruise safety tether and you're gonna

184
00:12:41,910 --> 00:12:39,760
fairly zenith as soon as you can

185
00:12:45,190 --> 00:12:41,920
two safer handles check down

186
00:12:47,670 --> 00:12:45,200
hey good catch uh i forgot about that

187
00:12:50,829 --> 00:12:47,680
tether or two safety uh

188
00:12:56,870 --> 00:12:55,269

down greg chatatov making his way

189

00:12:58,949 --> 00:12:56,880

back out to the

190

00:13:00,550 --> 00:12:58,959

port side of the truss

191

00:13:01,590 --> 00:13:00,560

to

192

00:13:03,190 --> 00:13:01,600

assist

193

00:13:04,790 --> 00:13:03,200

drew feustel with the jumper

194

00:13:11,350 --> 00:13:04,800

installation the ammonia jumper

195

00:13:15,350 --> 00:13:13,910

one of the first tasks of after getting

196

00:13:18,629 --> 00:13:15,360

into position

197

00:13:21,590 --> 00:13:18,639

will be to demate the

198

00:13:32,550 --> 00:13:21,600

external wireless instrumentation system

199

00:13:36,870 --> 00:13:35,030

sunset in 30 seconds gentlemen drew you

200

00:13:39,269 --> 00:13:36,880

can retrieve your red and then go back

201
00:13:40,550 --> 00:13:39,279
and get your green hook i'll be lucky i

202
00:13:43,670 --> 00:13:40,560
caught y'all

203
00:13:46,550 --> 00:13:43,680
as you told me to depart or

204
00:13:48,389 --> 00:13:46,560
yeah i got it from here okay it looks

205
00:13:49,910 --> 00:13:48,399
like

206
00:13:51,590 --> 00:13:49,920
once you've made it you should be okay

207
00:13:53,670 --> 00:13:51,600
you can't even get rid of that right now

208
00:13:55,350 --> 00:13:53,680
if you want to

209
00:14:01,030 --> 00:13:55,360
connect it up here i can hold it so it

210
00:14:06,629 --> 00:14:03,509
okay great copy and uh you're gonna put

211
00:14:09,189 --> 00:14:06,639
that hand rail back and retrieve uh the

212
00:14:13,750 --> 00:14:09,199
new handrail 270 alpha from the fixed

213
00:14:13,760 --> 00:14:18,230

it works

214

00:14:26,550 --> 00:14:19,829

okay mike i am

215

00:14:32,629 --> 00:14:29,269

okay uh good work and then you're going

216

00:14:35,189 --> 00:14:32,639

to relocate the p5p6 bundle

217

00:14:46,870 --> 00:14:35,199

which is the p5 p6 wire tie and you're

218

00:14:51,189 --> 00:14:49,189

hey greg once you have the handrail uh

219

00:15:09,750 --> 00:14:51,199

definitely doc soft

220

00:15:09,760 --> 00:15:34,550

copy

221

00:15:39,189 --> 00:15:36,629

view of drew feustel here a little bit

222

00:15:40,870 --> 00:15:39,199

difficult to distinguish always which

223

00:15:43,670 --> 00:15:40,880

suit you're looking at as

224

00:15:51,189 --> 00:15:43,680

forestalls has a solid red stripe and

225

00:15:55,030 --> 00:15:53,189

and greg i have a note here that we

226

00:16:00,870 --> 00:15:55,040

wrote after our last reference for you

227

00:16:04,629 --> 00:16:02,870

in correction that is actually shamitoff

228

00:16:07,269 --> 00:16:04,639

he is working to

229

00:16:08,470 --> 00:16:07,279

working to install one of the handrails

230

00:16:10,710 --> 00:16:08,480

with the

231

00:16:12,710 --> 00:16:10,720

camera already integrated onto it each

232

00:16:20,550 --> 00:16:12,720

of those handrails is hit is held down

233

00:16:24,790 --> 00:16:22,710

now for the fun for you drew you're

234

00:16:26,629 --> 00:16:24,800

going to remove the four caps

235

00:16:29,670 --> 00:16:26,639

and you're going to use the

236

00:16:31,430 --> 00:16:29,680

the brt wire tie and you want the first

237

00:16:34,389 --> 00:16:31,440

cap as far down on the wire as high as

238

00:16:40,389 --> 00:16:34,399

possible right in the four caps are j16

239

00:16:44,150 --> 00:16:42,949

and eventually drew those uh four caps

240

00:17:14,549 --> 00:16:44,160

are going to go in the fifth string and

241

00:17:18,949 --> 00:17:17,189

so greg it looks like you got it soft

242

00:17:21,829 --> 00:17:18,959

dots and you're checking that it's fully

243

00:18:05,190 --> 00:17:21,839

seated is that correct

244

00:18:09,350 --> 00:18:07,430

get a good view of how these uh antennas

245

00:18:27,350 --> 00:18:09,360

are installed you can see how they're

246

00:18:32,789 --> 00:18:30,310

uh we copy and uh we did our own

247

00:18:34,070 --> 00:18:32,799

analysis up here and it turns out to be

248

00:18:36,789 --> 00:18:34,080

the same thing

249

00:18:38,870 --> 00:18:36,799

so uh uh if i can repeat back what i

250

00:18:41,590 --> 00:18:38,880

heard drew's going to uh

251
00:18:44,070 --> 00:18:41,600
to clean up the the tools from tethers

252
00:18:46,470 --> 00:18:44,080
and uh make sure the cables are in a

253
00:18:49,190 --> 00:18:46,480
good configuration and then we'll send

254
00:18:52,310 --> 00:18:49,200
him over to the eventful extension bag

255
00:18:55,430 --> 00:18:52,320
then we'll have taz uh run the steps

256
00:18:59,029 --> 00:18:55,440
that we talked about before steps 33-39

257
00:18:59,909 --> 00:18:59,039
and he'll clean up the area and take the

258
00:19:00,950 --> 00:18:59,919
his

259
00:19:03,029 --> 00:19:00,960
bag

260
00:19:05,110 --> 00:19:03,039
back to the airlock and by that time we

261
00:19:07,430 --> 00:19:05,120
should be pretty much tagged up and in

262
00:19:13,909 --> 00:19:07,440
before that one hour and 30 minutes how

263
00:19:18,070 --> 00:19:16,070

this again is uh

264

00:19:20,789 --> 00:19:18,080

the result of some some calculations the

265

00:19:24,549 --> 00:19:20,799

team here on the ground have done

266

00:19:25,830 --> 00:19:24,559

due to a loss of insight into heading

267

00:19:28,549 --> 00:19:25,840

back craig

268

00:19:30,870 --> 00:19:28,559

co2 sensor on his spacesuit and they're

269

00:19:32,630 --> 00:19:30,880

just uh going to have him watch for any

270

00:19:35,669 --> 00:19:32,640

signs that he might be having a problem

271

00:19:37,270 --> 00:19:35,679

with co2 and otherwise plan concernedly

272

00:19:39,110 --> 00:19:37,280

conservatively to get him back into the

273

00:19:40,710 --> 00:19:39,120

airlock in plenty of time i've got them

274

00:19:42,950 --> 00:19:40,720

both i'll put them in the bag and then

275

00:19:45,029 --> 00:19:42,960

i'll secure

276

00:19:48,230 --> 00:19:45,039

the cables

277

00:19:54,870 --> 00:19:50,470

before you leave up top let's put an

278

00:19:56,710 --> 00:19:54,880

extra twist in your uh p3p4 cables

279

00:19:57,590 --> 00:19:56,720

extra swifts if you need a little stock

280

00:19:59,110 --> 00:19:57,600

up there

281

00:20:00,390 --> 00:19:59,120

well i just didn't tighten them a whole

282

00:20:01,590 --> 00:20:00,400

lot because i knew you were coming to

283

00:20:03,909 --> 00:20:01,600

get them so

284

00:20:03,919 --> 00:20:11,750

so give them a

285

00:20:17,430 --> 00:20:15,830

here we're seeing um shows in the

286

00:20:19,669 --> 00:20:17,440

bottom right hand corner mission

287

00:20:21,830 --> 00:20:19,679

specialist greg shamatoff

288

00:20:22,789 --> 00:20:21,840

and along the top center portion of the

289

00:20:24,630 --> 00:20:22,799

screen

290

00:20:27,270 --> 00:20:24,640

mission specialist joy feustel they're

291

00:20:29,669 --> 00:20:27,280

each on the exterior of the harmony

292

00:20:34,390 --> 00:20:30,789

your

293

00:20:35,990 --> 00:20:34,400

p3 p4 i think before you want to

294

00:20:53,190 --> 00:20:36,000

before you want to take your green hook

295

00:20:53,200 --> 00:20:58,710

okay so

296

00:21:12,549 --> 00:21:00,789

i've got

297

00:21:12,559 --> 00:21:25,350

um

298

00:22:19,029 --> 00:21:40,870

is

299

00:22:24,870 --> 00:22:22,230

um just like you know the bag was uh

300

00:22:25,590 --> 00:22:24,880

thermal analysis being on the side of

301
00:22:37,510 --> 00:22:25,600
the

302
00:22:38,950 --> 00:22:37,520
understand and greg yeah if you go

303
00:22:40,470 --> 00:22:38,960
around that corner you're going to find

304
00:22:50,230 --> 00:22:40,480
one of the handrails that we're looking

305
00:22:55,669 --> 00:22:52,149
so greg the handrails that we had

306
00:22:58,870 --> 00:22:55,679
planned for were 559 and 513 and you're

307
00:23:00,390 --> 00:22:58,880
going to use the integrated tethers

308
00:23:02,630 --> 00:23:00,400
craig shimatov working to find the right

309
00:23:04,310 --> 00:23:02,640
stowage location for that bag of cables

310
00:23:06,070 --> 00:23:04,320
and tools that he is

311
00:23:07,830 --> 00:23:06,080
getting getting into place for the third

312
00:23:15,350 --> 00:23:07,840
spacewalk of the mission so give me a

313
00:23:19,350 --> 00:23:16,870

quest airlock's continuing to

314

00:23:21,110 --> 00:23:19,360

repressurize it's currently at about 12

315

00:23:22,750 --> 00:23:21,120

and a half pounds per square inch

316

00:23:30,310 --> 00:23:22,760

heading up to

317

00:23:34,549 --> 00:23:32,230

garen and kelly being joined here by

318

00:23:37,190 --> 00:23:34,559

flight engineer paolo nespoli who was

319

00:23:39,350 --> 00:23:37,200

also one of the

320

00:23:49,830 --> 00:23:39,360

crew members who assisted this morning

321

00:23:54,149 --> 00:23:52,390

as you can see the

322

00:23:56,710 --> 00:23:54,159

crew lock portion of the quest air lock

323

00:23:57,669 --> 00:23:56,720

which is what the space walkers actually

324

00:23:59,430 --> 00:23:57,679

exit

325

00:24:01,190 --> 00:23:59,440

the station from

326

00:24:03,110 --> 00:24:01,200

is actually rather small it's a bit of a

327

00:24:04,870 --> 00:24:03,120

stretch to get both the space walkers

328

00:24:08,230 --> 00:24:04,880

and all their equipment

329

00:24:12,390 --> 00:24:10,310

intravehicular crew

330

00:24:13,590 --> 00:24:12,400

has to be on hand to help them both in

331

00:24:32,470 --> 00:24:13,600

and out of that

332

00:24:36,950 --> 00:24:34,390

we're sure that eva glove photos will be

333

00:24:38,149 --> 00:24:36,960

on ssc 8 they're copying now in about

334

00:24:58,470 --> 00:24:38,159

four minutes

335

00:24:58,480 --> 00:26:35,110

the decoration normalized after the edd

336

00:26:42,149 --> 00:26:37,990

houston airlock step 34