



1
00:00:00,000 --> 00:00:55,229

I
2
00:00:55,239 --> 00:01:12,300
hi

3
00:01:12,310 --> 00:01:39,610
Oh

4
00:01:39,620 --> 00:02:10,910
you

5
00:02:10,920 --> 00:02:16,130
okay get up and ever we got work to do

6
00:02:20,670 --> 00:02:19,080
ok call I got through the doors in

7
00:04:04,890 --> 00:02:20,680
particular got a long day ahead of them

8
00:04:10,910 --> 00:04:06,569
and there this is Houston are you ready

9
00:04:13,589 --> 00:04:10,920
to begin the event where it'll be a bit

10
00:04:16,439 --> 00:04:13,599
nhk this is Houston please call endeavor

11
00:04:21,599 --> 00:04:16,449
for a voice check and the mad this is

12
00:04:25,830 --> 00:04:21,609
NHK how do you hear me ok this is

13
00:04:30,499 --> 00:04:25,840

endeavour you're loud and clear good

14

00:04:37,740 --> 00:04:30,509

afternoon commander Duffy ragazza hello

15

00:04:43,200 --> 00:04:37,750

mr. ricotta haha that's cute okay I know

16

00:04:47,370 --> 00:04:43,210

what every see mr. wakata waving hand to

17

00:04:51,090 --> 00:04:47,380

us with the card called Earth now let's

18

00:04:53,010 --> 00:04:51,100

talk to talk to commander commander

19

00:04:57,060 --> 00:04:53,020

Duffy congratulations for your smooth

20

00:04:59,909 --> 00:04:57,070

operations of various tasks as you sing

21

00:05:02,370 --> 00:04:59,919

on congratulations we are performing a

22

00:05:07,050 --> 00:05:02,380

very good we are taking the mission task

23

00:05:09,409 --> 00:05:07,060

successfully so far thank you very much

24

00:05:12,719 --> 00:05:09,419

for coming aboard endeavor with us today

25

00:05:14,129 --> 00:05:12,729

right now we're approaching south

26

00:05:16,290 --> 00:05:14,139

america we're just passing over the

27

00:05:17,640 --> 00:05:16,300

galapagos islands and thank you for your

28

00:05:29,040 --> 00:05:17,650

congratulations we're having a wonderful

29

00:05:35,390 --> 00:05:32,129

is it just an honest esto barcoding to

30

00:05:38,010 --> 00:05:35,400

the commander everything is going

31

00:05:42,960 --> 00:05:38,020

smoothly and they're enjoying the flight

32

00:05:44,399 --> 00:05:42,970

so mr. Modi mr. McCotter hello oh do

33

00:05:46,950 --> 00:05:44,409

they let me give up k the more we are

34

00:05:50,899 --> 00:05:46,960

looking at you from the earth you are

35

00:05:55,740 --> 00:05:50,909

doing a wonderful job we are in houston

36

00:05:57,659 --> 00:05:55,750

we knowledge all impressed by coitus

37

00:05:59,490 --> 00:05:57,669

wonderful work they're very happy with

38

00:06:03,839 --> 00:05:59,500

your work all my colleagues done in

39

00:06:06,029 --> 00:06:03,849

Houston thank you very much Vodafone I

40

00:06:11,760 --> 00:06:06,039

am very happy that everything has gone

41

00:06:15,480 --> 00:06:11,770

very well so far unfortunately commander

42

00:06:18,390 --> 00:06:15,490

has to explain I excuse himself because

43

00:06:20,550 --> 00:06:18,400

of EVs that are about to start it's

44

00:06:22,980 --> 00:06:20,560

really bad thank you for appearance mr.

45

00:06:26,189 --> 00:06:22,990

Duffy it's a sophisticated more

46

00:06:28,230 --> 00:06:26,199

questionable human our 6th graders of

47

00:06:30,510 --> 00:06:28,240

the Japanese school in Houston are here

48

00:06:32,100 --> 00:06:30,520

with me they seem to have questions

49

00:06:34,950 --> 00:06:32,110

there are many questions they want to

50

00:06:37,830 --> 00:06:34,960

ask you directly here they are aqua

51
00:06:40,740 --> 00:06:37,840
first well first of all we approach it

52
00:06:44,399 --> 00:06:40,750
you are taught them on huntington is oh

53
00:06:47,909 --> 00:06:44,409
god i want to sit something like the the

54
00:06:50,790 --> 00:06:47,919
Earth's covered with a blue veil looked

55
00:06:53,969 --> 00:06:50,800
something I saw you saying that don't TV

56
00:06:56,700 --> 00:06:53,979
but I couldn't hear you very well I can

57
00:06:59,629 --> 00:06:56,710
understand well the blue veil that I was

58
00:07:03,390 --> 00:06:59,639
referring to was the thin atmosphere

59
00:07:05,790 --> 00:07:03,400
another flare I'm coconut suit wha oh my

60
00:07:10,469 --> 00:07:05,800
gosh and there was a big contrast

61
00:07:13,649 --> 00:07:10,479
between the black space and a beautiful

62
00:07:17,610 --> 00:07:13,659
blue earth and I really truly felt that

63
00:07:19,589 --> 00:07:17,620

the earth was alive let's continue our

64

00:07:22,170 --> 00:07:19,599

questions your ass going toward each

65

00:07:25,320 --> 00:07:22,180

other what about you gotta see Sam vacas

66

00:07:26,500 --> 00:07:25,330

I know it was shot or not we got shunkan

67

00:07:31,930 --> 00:07:26,510

diam

68

00:07:35,740 --> 00:07:31,940

and the moment the rocket went up into

69

00:07:43,210 --> 00:07:35,750

space whose voice and foods face came up

70

00:07:48,670 --> 00:07:43,220

to you first moment of launch I takes a

71

00:07:51,730 --> 00:07:48,680

lot of attention and i was i was around

72

00:07:55,750 --> 00:07:51,740

here at the time of the launch khayo

73

00:07:58,360 --> 00:07:55,760

moti back i was very concentrating on

74

00:08:00,040 --> 00:07:58,370

the monitors of the instrumental

75

00:08:20,710 --> 00:08:00,050

instruments and so forth I couldn't

76

00:08:20,720 --> 00:08:42,760

and ever we have the flight deck view

77

00:10:04,579 --> 00:08:44,960

and every houston around the a flight

78

00:10:08,670 --> 00:10:07,410

Kelly right so you've got the PDF there

79

00:10:11,220 --> 00:10:08,680

you can install the P tap on the

80

00:10:26,490 --> 00:10:11,230

starboard bay for last place they rush

81

00:10:28,110 --> 00:10:26,500

back to unlock the key like okay and

82

00:10:37,019 --> 00:10:28,120

there's primary jet trying two coming up

83

00:10:43,710 --> 00:10:37,029

for both of y'all cetaphil with the

84

00:10:45,870 --> 00:10:43,720

living saw this couple minutes and then

85

00:10:47,759 --> 00:10:45,880

they'll be done and wilson then install

86

00:10:50,280 --> 00:10:47,769

and remove an avionics foul line from

87

00:10:52,910 --> 00:10:50,290

that ta line plan okay if that will be

88

00:10:56,180 --> 00:10:52,920

aboard you have to be out the birth then

89

00:11:06,689 --> 00:10:56,190

disposition to be a pupa and Industry

90

00:11:08,579 --> 00:11:06,699

clockwise number people endeavour

91

00:11:11,720 --> 00:11:08,589

Houston for two minutes from the z OE

92

00:11:15,180 --> 00:11:11,730

we'll get you back in approximately

93

00:11:16,860 --> 00:11:15,190

seven minutes for the flight deck you're

94

00:11:21,150 --> 00:11:16,870

go for the sm checkpoint at the end of

95

00:11:23,100 --> 00:11:21,160

14-7 cabin repress and for IV and EV the

96

00:11:26,490 --> 00:11:23,110

plan right now is for Leroy to proceed

97

00:11:27,930 --> 00:11:26,500

as planned on the timeline for ev3 we're

98

00:11:30,210 --> 00:11:27,940

going to give you some easy tasks

99

00:11:32,430 --> 00:11:30,220

following your utility box so you both

100

00:11:38,850 --> 00:11:32,440

meet up at pewp set up that's the plan

101
00:11:41,340 --> 00:11:38,860
for now papi okay we copy that time and

102
00:11:44,670 --> 00:11:41,350
we'll just stand by to hear which test

103
00:11:53,879 --> 00:11:44,680
you want them to do good cop you see on

104
00:11:56,430 --> 00:11:53,889
the other side okay then yeah sure Leroy

105
00:11:57,569 --> 00:11:56,440
you got a temp so the torque wrench at

106
00:11:59,819 --> 00:11:57,579
the work site and then you have your

107
00:12:02,519 --> 00:11:59,829
quick traps from the appeal bar I of

108
00:12:05,150 --> 00:12:02,529
course we wouldn't want you to forget

109
00:12:14,540 --> 00:12:09,030
now with you I work understood lunch

110
00:12:20,910 --> 00:12:17,999
are go ahead okay I've reconnected when

111
00:12:23,910 --> 00:12:20,920
i'll be a more fluid to liability to the

112
00:12:25,619 --> 00:12:23,920
primary box the I reconnection SPL

113
00:12:28,350 --> 00:12:25,629

guillory fourth in the line was not a

114

00:12:30,569 --> 00:12:28,360

problem see a laugh that clamps around

115

00:12:33,329 --> 00:12:30,579

is again is just difficult to actuate

116

00:12:35,340 --> 00:12:33,339

with one hand the a thermal blanket are

117

00:12:37,139 --> 00:12:35,350

very difficult to put back into place if

118

00:12:39,840 --> 00:12:37,149

you put the blankets in place properly

119

00:12:42,480 --> 00:12:39,850

clamping it did you get seattle r

120

00:12:45,389 --> 00:12:42,490

equipment if you lease a bit first you

121

00:12:47,069 --> 00:12:45,399

don't have enough clearance to easily

122

00:12:48,869 --> 00:12:47,079

reconfigure the thermal blankets look at

123

00:12:52,230 --> 00:12:48,879

this photo blink of a big problem they

124

00:12:54,540 --> 00:12:52,240

need to be a theory that TV stunt I drop

125

00:12:57,179 --> 00:12:54,550

the grounding strap back in place

126

00:12:59,549 --> 00:12:57,189

underneath the loose spring clip it

127

00:13:02,790 --> 00:12:59,559

looks like a generally flimsy mechanism

128

00:13:05,249 --> 00:13:02,800

I know it Hillman asset so you're the

129

00:13:07,799 --> 00:13:05,259

problem is that is just too small women

130

00:13:10,679 --> 00:13:07,809

would be very small liar and a very

131

00:13:13,110 --> 00:13:10,689

smart Victor a very small spring clamp

132

00:13:14,939 --> 00:13:13,120

and I'd have bet that up that size are

133

00:13:17,999 --> 00:13:14,949

very difficult as you fail to work with

134

00:13:19,710 --> 00:13:18,009

the b school so uh that's my comical

135

00:13:21,239 --> 00:13:19,720

miss this first log all going and

136

00:13:24,540 --> 00:13:21,249

reconfigure the second light it forget

137

00:13:26,129 --> 00:13:24,550

to pack up okay and let me just read the

138

00:13:28,290 --> 00:13:26,139

attempts to make sure we got em all

139

00:13:31,139 --> 00:13:28,300

public machine those comments by the way

140

00:13:33,900 --> 00:13:31,149

we've reconfigured the turtle blanket or

141

00:13:35,910 --> 00:13:33,910

stowed in a teflon quipped prefer three

142

00:13:42,660 --> 00:13:35,920

clams the two individual line plants and

143

00:13:45,449 --> 00:13:42,670

verified lock on the one who did they

144

00:13:48,239 --> 00:13:45,459

let you two individual live clips you

145

00:13:52,699 --> 00:13:48,249

confuse me I've got the Perfector back

146

00:14:01,639 --> 00:13:59,759

right there's a online clamp on me you

147

00:14:05,069 --> 00:14:01,649

know feel like Lance on the tool or food

148

00:14:07,590 --> 00:14:05,079

nectar saw only to flop flip but the two

149

00:14:09,689 --> 00:14:07,600

hits be a collective olive oil and other

150

00:14:11,759 --> 00:14:09,699

single Teflon clip for the lure what

151

00:14:13,439 --> 00:14:11,769

every went to look for

152

00:14:15,869 --> 00:14:13,449

the Teflon clips and I think you'll find

153

00:14:18,749 --> 00:14:15,879

a blank with four to the temple on flip

154

00:14:22,559 --> 00:14:18,759

okay let me take a look here then is a

155

00:14:24,660 --> 00:14:22,569

career job in a dark with the spotlight

156

00:14:28,379 --> 00:14:24,670

on the helmet on I got my must I'm right

157

00:14:30,119 --> 00:14:28,389

on he is much more readable I still

158

00:14:32,519 --> 00:14:30,129

think the front thighs too small and the

159

00:14:36,090 --> 00:14:32,529

paper cup checklist superior and

160

00:14:39,419 --> 00:14:36,100

readability the contract and size of the

161

00:14:41,069 --> 00:14:39,429

font that's great of a lowly Ryan I

162

00:14:43,530 --> 00:14:41,079

think it's terrific that one guy was

163

00:14:45,359 --> 00:14:43,540

able to see and evaluate it in the light

164

00:14:46,739 --> 00:14:45,369

and in the dark all three versus the

165

00:14:50,999 --> 00:14:46,749

same time I think you cared about

166

00:14:52,829 --> 00:14:51,009

standing about 30 for the HTC yes

167

00:14:55,619 --> 00:14:52,839

we need you to comment on any mobility

168

00:14:57,359 --> 00:14:55,629

cause beti 86 as you can see it's

169

00:14:59,879 --> 00:14:57,369

difficult to reach my helmet search box

170

00:15:02,850 --> 00:14:59,889

so if they could cut the size down it be

171

00:15:04,470 --> 00:15:02,860

that'd be great I can't sway it out of

172

00:15:06,660 --> 00:15:04,480

the way you see it's kind of loose on my

173

00:15:08,579 --> 00:15:06,670

ab should have been a little tighter i

174

00:15:10,199 --> 00:15:08,589

guess but i didn't want to beat you

175

00:15:13,139 --> 00:15:10,209

tight so i could swing it out of the way

176

00:15:16,739 --> 00:15:13,149

and chief they need you to take that

177

00:15:19,919 --> 00:15:16,749

thanks for the feedback and back sweets

178

00:15:22,079 --> 00:15:19,929

that section and we're going to go out

179

00:15:24,809 --> 00:15:22,089

of BBA loads of AI and on to the

180

00:15:26,730 --> 00:15:24,819

on-orbit installed deployed while okay

181

00:15:28,859 --> 00:15:26,740

and your first step theorists rinse

182

00:15:31,919 --> 00:15:28,869

obtain vital air carrier from the for

183

00:15:33,780 --> 00:15:31,929

Volquez okay and Lee or just says be no

184

00:15:39,780 --> 00:15:33,790

heads up five that would schedule that a

185

00:15:43,049 --> 00:15:39,790

ph g of 205 and about 25 minutes back

186

00:15:45,090 --> 00:15:43,059

okay dan I'm standing on the dock I

187

00:15:46,949 --> 00:15:45,100

can't explain right on have a it's just

188

00:15:49,049 --> 00:15:46,959

sodium in the direct sunlight can't see

189

00:15:51,509 --> 00:15:49,059

it it has a great idea to recheck it

190

00:15:54,269 --> 00:15:51,519

Leroy and i'm sure those folks would

191

00:15:56,159 --> 00:15:54,279

like it maybe you could just say there a

192

00:15:58,289 --> 00:15:56,169

second to be sure there's solid red for

193

00:16:00,329 --> 00:15:58,299

20 to 30 seconds and then solid gray not

194

00:16:02,819 --> 00:16:00,339

be to spend on but it just it's better

195

00:16:04,859 --> 00:16:02,829

stand by for a wall so it's solid green

196

00:16:07,739 --> 00:16:04,869

now okay yeah you're right it's only

197

00:16:09,659 --> 00:16:07,749

follow rest for 20 30 seconds good call

198

00:16:11,460 --> 00:16:09,669

okay thanks for each ecking that you can

199

00:16:14,819 --> 00:16:11,470

move on to obtain the sidewalk area from

200

00:16:17,239 --> 00:16:14,829

the four ball game okay Roger that okay

201
00:16:20,009 --> 00:16:17,249
on the lines begin I think they will

202
00:16:21,929 --> 00:16:20,019
baby of you for all cell analogy the Pee

203
00:16:24,300 --> 00:16:21,939
Wee that's the two fluid line jumpers on

204
00:16:27,060 --> 00:16:24,310
the bottom each of the hip

205
00:16:28,680 --> 00:16:27,070
connectors that they go on a line claims

206
00:16:31,170 --> 00:16:28,690
I guess you want to call them a tough

207
00:16:33,330 --> 00:16:31,180
mods planted the sitter that before

208
00:16:36,660 --> 00:16:33,340
would then and I'm going to do the upper

209
00:16:38,820 --> 00:16:36,670
wasn't down okay perform the following

210
00:16:40,290 --> 00:16:38,830
for the task way first steps are going

211
00:16:43,260 --> 00:16:40,300
to be a quick grab which is three times

212
00:17:04,290 --> 00:16:43,270
both hands to space 3 close open some

213
00:17:05,910 --> 00:17:04,300

space here we go and three Hey lay back

214

00:17:28,830 --> 00:17:05,920

two or three times people lay back no

215

00:17:39,880 --> 00:17:34,870

I agree and every be a damn what's back

216

00:17:43,120 --> 00:17:39,890

look at this I'll go ahead story we're

217

00:17:46,260 --> 00:17:43,130

planning on not doing a pewp assembly to

218

00:17:48,430 --> 00:17:46,270

give priority to the thermal evaluation

219

00:17:54,310 --> 00:17:48,440

Leroy may want to do the photo

220

00:17:56,530 --> 00:17:54,320

documentation of the utility box okay so

221

00:17:58,419 --> 00:17:56,540

yeah we'll go ahead that fool go and do

222

00:18:22,630 --> 00:17:58,429

that you want Winston to move to the

223

00:18:33,050 --> 00:18:30,410

in their premium right we still have 50

224

00:18:35,270 --> 00:18:33,060

minutes to the point where we can begin

225

00:18:41,120 --> 00:18:35,280

to thermal eval you can go ahead and

226

00:18:46,600 --> 00:18:41,130

start a pewp assembly okay we're gonna

227

00:18:49,100 --> 00:18:46,610

go ahead with that and you've enough

228

00:18:51,890 --> 00:18:49,110

buyers getting is we should leave the

229

00:18:53,360 --> 00:18:51,900

primary boxes door opens I anticipation

230

00:18:59,210 --> 00:18:53,370

of taking the photographs are

231

00:19:04,790 --> 00:18:59,220

strengthened sorry set up there'll be

232

00:19:07,910 --> 00:19:04,800

great hey Leroy thanks that's a good

233

00:19:09,830 --> 00:19:07,920

information how are your helmet lights

234

00:19:12,530 --> 00:19:09,840

is for the dance white diamond now beam

235

00:19:15,500 --> 00:19:12,540

yeah I tried good combination for both

236

00:19:18,440 --> 00:19:15,510

and here for closing tab stop being was

237

00:19:21,380 --> 00:19:18,450

good and for overall the be wiping with

238

00:19:24,290 --> 00:19:21,390

it siress tinia give those full phase

239

00:19:30,310 --> 00:19:24,300

parfaits you have a matter of 30 overall

240

00:19:36,650 --> 00:19:34,370

okay time to move up push Mike tool from

241

00:19:42,280 --> 00:19:36,660

the ridge each other tent stove works in

242

00:19:50,600 --> 00:19:42,290

work ok wish gonna get your slide wire

243

00:19:53,720 --> 00:19:50,610

wrapped around after post all right

244

00:20:01,230 --> 00:19:53,730

that's your house in terrific i'll take

245

00:20:04,620 --> 00:20:02,730

there were a minute and a half to

246

00:20:06,600 --> 00:20:04,630

attenders hand over the first seven

247

00:20:39,460 --> 00:20:06,610

minutes on east will be in blockage you

248

00:20:39,470 --> 00:20:43,930

endeavor we can take the cameras again

249

00:20:50,960 --> 00:20:48,640

okay sorry they're all yours thank you

250

00:21:11,310 --> 00:20:50,970

elbow be our teeth let's go back here

251

00:21:21,430 --> 00:21:15,190

ok I've got it ok I'm gonna let go ok

252

00:21:23,230 --> 00:21:21,440

said you got it as with it orientation

253

00:21:26,290 --> 00:21:23,240

or one let's how to go there like this

254

00:21:28,630 --> 00:21:26,300

far this way it goes in 184 once you get

255

00:21:34,210 --> 00:21:28,640

that David spacing your chest goes into

256

00:21:37,720 --> 00:21:34,220

that pole sticking out of the wall ok

257

00:21:39,850 --> 00:21:37,730

blg obsessed okay now I'm gonna burn and

258

00:21:42,550 --> 00:21:39,860

grapple it and then I'm gonna hand it to

259

00:21:56,980 --> 00:21:42,560

you and then a help slide it into this

260

00:22:00,880 --> 00:21:56,990

flash can run a probe here whenever one

261

00:22:03,250 --> 00:22:00,890

great let's keep going we're closing in

262

00:22:05,950 --> 00:22:03,260

on that wall today that's pretty much it

263

00:22:13,930 --> 00:22:05,960

you can move ok you can move out in the

264

00:22:18,070 --> 00:22:13,940

bay 7 stop there that's perfect k Leroy

265

00:22:19,540 --> 00:22:18,080

I accept is the goal for us is to give

266

00:22:23,830 --> 00:22:19,550

us a go phone grappling then you remove

267

00:22:26,500 --> 00:22:23,840

it from the ok tedi fracture hey you

268

00:22:33,940 --> 00:22:26,510

ever hear edge so if you're ready all

269

00:22:36,970 --> 00:22:33,950

I'll be rich 30 th hey sorry now i feel

270

00:22:39,690 --> 00:22:36,980

it ok do it open when you're ready go

271

00:22:43,200 --> 00:22:39,700

phillies your go for at least take now

272

00:22:55,049 --> 00:22:43,210

ok i feel it and you do it back away

273

00:23:00,840 --> 00:22:58,049

Terry right after Winston you're clear

274

00:23:03,090 --> 00:23:00,850

go ahead and do p.m. up in any way

275

00:23:05,310 --> 00:23:03,100

through a great good job and when was it

276

00:23:29,070 --> 00:23:05,320

a mystery diners puffs look at the

277

00:23:41,220 --> 00:23:33,060

ok they have full hot and at this point

278

00:23:44,940 --> 00:23:41,230

the public at a 5.5 or 60 / off okay I

279

00:24:01,080 --> 00:23:44,950

copy a thermal comfort of a stick that's

280

00:24:05,890 --> 00:24:04,240

Stanley ray up I take my see you all the

281

00:24:10,720 --> 00:24:05,900

way over there a small cat but I'll read

282

00:24:29,110 --> 00:24:10,730

through you step through the tether line

283

00:24:34,110 --> 00:24:29,120

to slide my link and you'll then retract

284

00:24:46,230 --> 00:24:34,120

the cable plaque over above the airlock

285

00:24:49,780 --> 00:24:46,240

preparation the wizard as you bring the

286

00:24:59,020 --> 00:24:49,790

film too far back here on that's for the

287

00:25:34,279 --> 00:24:59,030

best and there you have the bridge rail

288

00:25:52,169 --> 00:25:50,190

okay that's a lot okay what'd you eat

289

00:26:00,690 --> 00:25:52,179

good to your left are you can post it

290

00:26:07,769 --> 00:26:00,700

the waters to office mutters off maybe

291

00:26:37,980 --> 00:26:07,779

it'll be water well okay you can close

292

00:26:46,060 --> 00:26:42,910

so the corpus closed okay you are go for