



1
00:00:33,510 --> 00:00:12,070
and there you see the outer hatch on the

2
00:00:36,870 --> 00:00:35,030
good deal mike uh we'll catch you when

3
00:00:40,470 --> 00:00:36,880
you get back uh comrade we'll hand them

4
00:00:44,150 --> 00:00:42,630
atlantis houston airground two first awc

5
00:00:45,430 --> 00:00:44,160
phil scorch can you please say again the

6
00:00:48,950 --> 00:00:45,440
number of that bag we couldn't quite

7
00:00:55,510 --> 00:00:51,590
that bag is uh

8
00:00:55,520 --> 00:01:09,190
copy one zero nine

9
00:01:12,310 --> 00:01:10,789
the teams here in mission control trying

10
00:01:13,830 --> 00:01:12,320
to take a look at uh why we're not

11
00:01:15,830 --> 00:01:13,840
getting any wireless video yet from the

12
00:01:18,070 --> 00:01:15,840
helmet cams of saturn foreman so they're

13
00:01:19,429 --> 00:01:18,080

gonna figure out that issue and

14

00:01:22,230 --> 00:01:19,439

hopefully we will be able to bring that

15

00:01:25,749 --> 00:01:22,240

to you here on nasa tv

16

00:01:31,990 --> 00:01:25,759

excellent mike you're heading off no

17

00:01:36,230 --> 00:01:33,670

but we see you heading aft and over the

18

00:01:50,550 --> 00:01:36,240

airlock to uh s1 keep it fairly long

19

00:01:54,389 --> 00:01:52,310

and he said ladies on the big week

20

00:02:00,709 --> 00:01:54,399

checking to see the piece after him

21

00:02:08,389 --> 00:02:02,870

are you looking good bobby

22

00:02:15,190 --> 00:02:11,270

atlantis houston on the big loop a firm

23

00:02:15,200 --> 00:02:25,990

thank you sir

24

00:02:26,000 --> 00:02:49,030

another perfect payoff

25

00:02:49,040 --> 00:02:58,630

happy flight zero six four

26

00:03:01,750 --> 00:02:59,910

so now we're getting the helmet cam

27

00:03:03,430 --> 00:03:01,760

footage uh from both mike foreman and

28

00:03:05,190 --> 00:03:03,440

bobby satcher

29

00:03:06,390 --> 00:03:05,200

as you take a look at these

30

00:03:07,910 --> 00:03:06,400

you should begin you'll see the number

31

00:03:09,670 --> 00:03:07,920

at the lower left lower right part of

32

00:03:12,309 --> 00:03:09,680

your screen the 16 will be mike

33

00:03:13,990 --> 00:03:12,319

foreman's helmet

34

00:03:15,350 --> 00:03:14,000

and whenever you see 18 at the lower

35

00:03:22,790 --> 00:03:15,360

right hand corner that will be bobby

36

00:03:27,110 --> 00:03:25,110

okay airlock tether is on zero two six

37

00:03:29,190 --> 00:03:27,120

four

38

00:03:32,630 --> 00:03:29,200

and uh the reel is unlocked my second

39

00:03:38,710 --> 00:03:32,640

reel is also unlocked

40

00:03:38,720 --> 00:04:10,869

yeah no to the poor tsa mike

41

00:04:13,670 --> 00:04:12,070

while satch is working on that foot

42

00:04:15,589 --> 00:04:13,680

restraint you can see mike foreman here

43

00:04:17,670 --> 00:04:15,599

inside atlantis's payload bay as the

44

00:04:24,950 --> 00:04:17,680

shuttle passes over the south atlantic

45

00:04:28,550 --> 00:04:26,469

he is in the process of beginning to

46

00:04:34,870 --> 00:04:28,560

remove the spare s-band antenna

47

00:04:34,880 --> 00:04:58,950

s1 v11 is your turning off body

48

00:05:04,469 --> 00:05:01,189

mike you're the prt of assassin ffc

49

00:05:08,310 --> 00:05:06,150

you can see atlantis's payload of a is

50

00:05:09,749 --> 00:05:08,320

uh halfway empty now that the express

51
00:05:11,430 --> 00:05:09,759
logistics carrier number one was

52
00:05:13,270 --> 00:05:11,440
installed

53
00:05:32,629 --> 00:05:13,280
elc2 is still sitting back there toward

54
00:05:42,870 --> 00:05:35,029
atlantis houston on the big loop comrade

55
00:05:42,880 --> 00:05:46,310
taking a call houston

56
00:05:51,350 --> 00:05:48,950
yes sir comrade if you could please read

57
00:05:56,390 --> 00:05:51,360
the caution on 717 you know how that

58
00:06:01,110 --> 00:05:58,870
copy houston mike remember uh high gate

59
00:06:03,110 --> 00:06:01,120
antenna logan antenna radiator services

60
00:06:12,469 --> 00:06:03,120
are subject to content

61
00:06:15,909 --> 00:06:14,230
bobby satcher is beginning to make his

62
00:06:18,710 --> 00:06:15,919
way over to the station's robotic arm

63
00:06:19,990 --> 00:06:18,720

which you see there on the left

64

00:06:24,390 --> 00:06:20,000

you can see that portable foot restraint

65

00:06:29,430 --> 00:06:25,749

good volts

66

00:06:31,189 --> 00:06:29,440

39 and change

67

00:06:32,629 --> 00:06:31,199

all right that's good for the forward

68

00:06:35,110 --> 00:06:32,639

locking straight pulse release two of

69

00:06:36,070 --> 00:06:35,120

them any worker expect 12 turns at each

70

00:06:40,790 --> 00:06:36,080

bolt

71

00:06:43,670 --> 00:06:42,070

bobby if you think we need to take

72

00:06:53,589 --> 00:06:43,680

breaks on just let us know right now

73

00:06:56,070 --> 00:06:55,110

will install this foot restraint on the

74

00:06:57,589 --> 00:06:56,080

end

75

00:06:59,589 --> 00:06:57,599

of the station's robotic arm and then

76

00:07:04,230 --> 00:06:59,599

he's going to get a ride over to

77

00:07:07,589 --> 00:07:05,830

bobby that width adapter is going to go

78

00:07:13,510 --> 00:07:07,599

into the pfr socket with the tether

79

00:07:17,189 --> 00:07:15,830

hey uh swanny it's gorgeous curious how

80

00:07:18,629 --> 00:07:17,199

if you guys got to prog notice how long

81

00:07:19,670 --> 00:07:18,639

it's going to take to figure out our

82

00:07:20,950 --> 00:07:19,680

thought is

83

00:07:22,629 --> 00:07:20,960

if we uh

84

00:07:24,309 --> 00:07:22,639

can just bolt this in this position and

85

00:07:25,990 --> 00:07:24,319

let them press with some other tasks

86

00:07:28,469 --> 00:07:26,000

come back to why you guys figured out we

87

00:07:29,990 --> 00:07:28,479

won't be burning time

88

00:07:33,909 --> 00:07:30,000

i understand we'll talk about it real

89

00:07:52,710 --> 00:07:35,029

okay

90

00:07:56,070 --> 00:07:54,550

what do you think if i connect the p3

91

00:08:01,270 --> 00:07:56,080

connector

92

00:08:03,990 --> 00:08:02,550

and atlantis that sounds like a great

93

00:08:11,189 --> 00:08:04,000

idea let's start with the p3 right now

94

00:08:16,550 --> 00:08:13,589

so at one hour and uh 55 minutes into

95

00:08:19,110 --> 00:08:16,560

today's spacewalk bobby satcher and mike

96

00:08:22,150 --> 00:08:19,120

foreman have wrapped up the activities

97

00:08:24,150 --> 00:08:22,160

surrounding this s-band antenna install

98

00:08:25,670 --> 00:08:24,160

and then on the unmuted connectors don't

99

00:08:28,070 --> 00:08:25,680

go ahead and still remove the connective

100

00:08:31,430 --> 00:08:29,909

what was that second look

101
00:08:34,630 --> 00:08:31,440
do not remove the connector caps on

102
00:08:39,190 --> 00:08:36,790
and just as a heads up gentlemen our

103
00:08:41,269 --> 00:08:39,200
planned pet is 3 hours and 15 minutes

104
00:08:48,310 --> 00:08:41,279
i'll see you at about uh one hour and

105
00:08:51,829 --> 00:08:49,910
all right up on the zenith side mic

106
00:08:54,550 --> 00:08:51,839
you're gonna look for the hex panel six

107
00:08:56,790 --> 00:08:54,560
zero five three for the connector panel

108
00:08:59,030 --> 00:08:56,800
there and the free end to the one next

109
00:09:17,350 --> 00:08:59,040
door six zero five four make until the

110
00:09:21,030 --> 00:09:18,949
the next task performing will be the

111
00:10:11,750 --> 00:09:21,040
installation of some cables for the

112
00:10:48,389 --> 00:10:13,269
put away from camera it's a shuttle

113
00:10:59,190 --> 00:10:51,509

zero gmt you are the highest man off

114

00:11:02,310 --> 00:11:00,310

bobby satcher they are getting a

115

00:11:04,630 --> 00:11:02,320

one-of-a-kind view of

116

00:11:06,389 --> 00:11:04,640

shuttle atlantis and the international

117

00:11:40,630 --> 00:11:06,399

space station as the two pass over the

118

00:11:45,110 --> 00:11:42,389

and both of you remember uh once mike

119

00:11:47,190 --> 00:11:45,120

demates that we may lose the uhf con

120

00:11:49,350 --> 00:11:47,200

temporarily with mike bobby you should

121

00:11:51,110 --> 00:11:49,360

be uh

122

00:12:16,389 --> 00:11:51,120

you may be able to relay for mike at

123

00:12:25,590 --> 00:12:17,910

thank you for the thermal cover bike for

124

00:12:29,269 --> 00:12:27,829

atlantis houston big blue preview come

125

00:12:31,269 --> 00:12:29,279

right beside that thermal cover can we

126

00:12:35,829 --> 00:12:31,279

also get the mic safer handles a little

127

00:12:35,839 --> 00:12:45,990

good call spotty

128

00:12:46,000 --> 00:12:49,910

pretty safer handles are down

129

00:12:49,920 --> 00:13:00,069

thanks mike

130

00:13:03,269 --> 00:13:01,750

all right while you're translating gents

131

00:13:05,269 --> 00:13:03,279

i'll read you the words of caution on

132

00:13:08,389 --> 00:13:05,279

our past deploy

133

00:13:10,230 --> 00:13:08,399

should be the nader outboard path

134

00:13:12,629 --> 00:13:10,240

protecting the river install the yolk

135

00:13:15,269 --> 00:13:12,639

tip pin and adp do not impart more than

136

00:13:17,190 --> 00:13:15,279

10 pounds of force

137

00:13:18,230 --> 00:13:17,200

the yoke adp does not have a stowage

138

00:13:19,990 --> 00:13:18,240

hole

139

00:13:22,550 --> 00:13:20,000

so once we pull it out you don't want to

140

00:13:23,990 --> 00:13:22,560

close the adp lock bracket when the ap

141

00:13:26,150 --> 00:13:24,000

is not inserted in the silly crevice

142

00:13:30,069 --> 00:13:26,160

hole we'll insert the

143

00:13:46,310 --> 00:13:30,079

tong end through the wire tie on the um

144

00:13:51,590 --> 00:13:49,590

and he said go through the outboard

145

00:13:53,750 --> 00:13:51,600

okay go ahead and drop your uh airlock

146

00:13:55,910 --> 00:13:53,760

uh tether on a hand driver

147

00:14:15,030 --> 00:13:55,920

your chisel

148

00:14:23,269 --> 00:14:16,949

mike once you get that uh

149

00:14:28,949 --> 00:14:25,990

it's gonna be three two one seven cobra

150

00:14:31,829 --> 00:14:28,959

three two one seven thanks bobby

151
00:14:33,430 --> 00:14:31,839
continuing to look through the view of

152
00:14:35,910 --> 00:14:33,440
mike foreman's

153
00:14:37,829 --> 00:14:35,920
helmet camera

154
00:14:40,310 --> 00:14:37,839
looking down on the helmet of bobby

155
00:14:43,030 --> 00:14:40,320
satcher working on a separate portion of

156
00:14:47,670 --> 00:14:43,040
this test or deploy a payload attached

157
00:14:47,680 --> 00:14:51,910
okay complete the message brakes

158
00:14:51,920 --> 00:14:55,750
okay bobby uh

159
00:15:00,389 --> 00:14:58,710
same setting bravo six counter three

160
00:15:10,629 --> 00:15:00,399
and you've got the

161
00:15:15,509 --> 00:15:14,629
there'll be 35 turns back to exceed 37.

162
00:15:18,949 --> 00:15:15,519
you're like

163
00:15:25,350 --> 00:15:23,189

35 challenge do not exceed 37.

164

00:15:27,750 --> 00:15:25,360

mike you're going to take the small hook

165

00:15:29,590 --> 00:15:27,760

of the adjust the uh

166

00:15:32,310 --> 00:15:29,600

a large small adjustable with the crew

167

00:15:34,710 --> 00:15:32,320

lock bag and put that to handrail three

168

00:15:49,670 --> 00:15:34,720

zero five zero

169

00:15:49,680 --> 00:16:01,990

uh

170

00:16:02,000 --> 00:16:05,269

a workstation

171

00:16:16,710 --> 00:16:07,030

uh

172

00:16:23,030 --> 00:16:19,509

the wretch

173

00:16:23,990 --> 00:16:23,040

that with the fifth term

174

00:16:25,430 --> 00:16:24,000

uh

175

00:16:27,670 --> 00:16:25,440

see i got

176

00:16:30,069 --> 00:16:27,680

three adjustables one adjustable from

177

00:16:34,069 --> 00:16:30,079

the um

178

00:16:34,079 --> 00:16:51,189

and then i got a pgt

179

00:16:54,230 --> 00:16:52,790

excellent

180

00:16:56,870 --> 00:16:54,240

all right gents it's not over till we

181

00:16:58,710 --> 00:16:56,880

repress just to have a nice uh

182

00:17:00,310 --> 00:16:58,720

drive back to the airlock you did

183

00:17:02,710 --> 00:17:00,320

awesome work today you guys get the

184

00:17:21,669 --> 00:17:02,720

official macgyver award for uh all your