



1
00:00:16,310 --> 00:00:13,910
good morning endeavor and a special good

2
00:00:18,470 --> 00:00:16,320
morning to you today roberto good

3
00:00:21,750 --> 00:00:18,480
morning shannon

4
00:00:23,750 --> 00:00:21,760
the song obviously was in italian and

5
00:00:26,070 --> 00:00:23,760
i was talking about

6
00:00:28,830 --> 00:00:26,080
a guy that is missing

7
00:00:31,990 --> 00:00:28,840
his wife and in this case

8
00:00:33,910 --> 00:00:32,000
obviously my thoughts are for my wife

9
00:00:36,790 --> 00:00:33,920
valeria that is in houston and i will

10
00:00:38,630 --> 00:00:36,800
look forward to ever the private

11
00:00:39,990 --> 00:00:38,640
conference tomorrow morning thank you

12
00:00:42,389 --> 00:00:40,000
again

13
00:00:43,430 --> 00:00:42,399

the crew members inside the quest

14

00:00:45,350 --> 00:00:43,440

airlock

15

00:00:48,549 --> 00:00:45,360

preparing for the

16

00:00:50,549 --> 00:00:48,559

second eva extra vehicular activity the

17

00:00:53,350 --> 00:00:50,559

two crew members heading out the door

18

00:00:55,510 --> 00:00:53,360

are being assisted by greg chamitoff you

19

00:01:00,709 --> 00:00:55,520

see in the black shirt there and shuttle

20

00:01:04,310 --> 00:01:03,430

and as mike fink opens the hatch the

21

00:01:06,789 --> 00:01:04,320

outer

22

00:01:10,630 --> 00:01:06,799

protective thermal cover which is

23

00:01:12,950 --> 00:01:10,640

basically velcroed to provide a thermal

24

00:01:16,230 --> 00:01:12,960

barrier between the

25

00:01:19,550 --> 00:01:16,240

that small space in the hatch

26

00:01:22,070 --> 00:01:19,560

the space walk marks the

27

00:01:24,550 --> 00:01:22,080

157th in support of space station

28

00:01:26,390 --> 00:01:24,560

assembly and maintenance

29

00:01:28,230 --> 00:01:26,400

this is the fifth

30

00:01:31,429 --> 00:01:28,240

space walk for drew feustel and the

31

00:01:33,910 --> 00:01:31,439

seventh for mike fink

32

00:01:35,990 --> 00:01:33,920

the two astronauts are heading out to

33

00:01:38,149 --> 00:01:36,000

the work site they're heading out to the

34

00:01:39,270 --> 00:01:38,159

port side of the station's truss

35

00:01:42,310 --> 00:01:39,280

structure

36

00:01:43,510 --> 00:01:42,320

to complete a task begun on eva one two

37

00:01:45,990 --> 00:01:43,520

days ago

38

00:01:49,030 --> 00:01:46,000

essentially to

39

00:01:51,190 --> 00:01:49,040

reconnect a jumper and a and then flow

40

00:01:54,310 --> 00:01:51,200

about five pounds or so of ammonia

41

00:01:56,870 --> 00:01:54,320

basically to recharge the ammonia system

42

00:01:59,190 --> 00:01:56,880

on the port solar alpha rotary joint

43

00:02:01,429 --> 00:01:59,200

side ammonia flows through

44

00:02:03,990 --> 00:02:01,439

a myriad of

45

00:02:05,510 --> 00:02:04,000

intricate systems on the port

46

00:02:07,749 --> 00:02:05,520

side of the station and on the right

47

00:02:09,109 --> 00:02:07,759

side the starboard side to

48

00:02:11,350 --> 00:02:09,119

cool all of the

49

00:02:12,150 --> 00:02:11,360

equipment and avionics

50

00:02:14,070 --> 00:02:12,160

that

51
00:02:17,190 --> 00:02:14,080
is operating on the international space

52
00:02:22,630 --> 00:02:20,630
and houston and tabs for cover 17.

53
00:02:23,510 --> 00:02:22,640
go ahead uh because

54
00:02:25,030 --> 00:02:23,520
of the

55
00:02:27,830 --> 00:02:25,040
extra torque and everything i've been

56
00:02:31,030 --> 00:02:27,840
doing a really good job counting turns

57
00:02:32,070 --> 00:02:31,040
and at nine turns cover 17 volt number

58
00:02:34,869 --> 00:02:32,080
two

59
00:02:37,030 --> 00:02:34,879
uh did not pop up so i gave it one more

60
00:02:39,509 --> 00:02:37,040
turn and uh

61
00:02:41,910 --> 00:02:39,519
on the 10th turn i pulled it up and it

62
00:02:43,670 --> 00:02:41,920
popped up and popped out the good news

63
00:02:46,070 --> 00:02:43,680

is i caught it i'm putting it in my

64

00:02:55,030 --> 00:02:46,080

trash bag

65

00:02:57,350 --> 00:02:56,550

go ahead okay

66

00:03:00,790 --> 00:02:57,360

okay

67

00:03:03,910 --> 00:03:00,800

uh vote 17 or excuse me cover 17

68

00:03:05,350 --> 00:03:03,920

three bolts came undone i have all three

69

00:03:07,030 --> 00:03:05,360

bolts with me

70

00:03:09,030 --> 00:03:07,040

when they came undone

71

00:03:11,910 --> 00:03:09,040

i did not see

72

00:03:13,670 --> 00:03:11,920

the locking washer on the

73

00:03:15,670 --> 00:03:13,680

back of them or when they came undone

74

00:03:18,550 --> 00:03:15,680

the locking washer that makes them

75

00:03:21,190 --> 00:03:18,560

captive uh did not float out with the

76

00:03:22,869 --> 00:03:21,200

rest of them i looked very carefully

77

00:03:24,470 --> 00:03:22,879

during the process you'll see it in the

78

00:03:26,229 --> 00:03:24,480

wbs

79

00:03:29,990 --> 00:03:26,239

the conversation that you're hearing is

80

00:03:32,309 --> 00:03:30,000

related to a washer that is

81

00:03:34,630 --> 00:03:32,319

supposed to be captive on one of the

82

00:03:37,430 --> 00:03:34,640

covers that

83

00:03:39,509 --> 00:03:37,440

mike fink has released from the port

84

00:03:42,070 --> 00:03:39,519

solar alpha rotary joint so the

85

00:03:45,270 --> 00:03:42,080

discussion is to uh for him to try to

86

00:03:47,110 --> 00:03:45,280

gently capture that washer

87

00:03:49,670 --> 00:03:47,120

if you hear from mike fink's helmet

88

00:03:52,869 --> 00:03:49,680

camera as he works on lubricating the

89

00:03:54,390 --> 00:03:52,879

top surface of the race ring to do the

90

00:03:57,270 --> 00:03:54,400

bottom surface they'll have to use a

91

00:03:59,429 --> 00:03:57,280

special grease gun with a j shaped

92

00:04:01,350 --> 00:03:59,439

nozzle to get under the race ring it's

93

00:04:02,869 --> 00:04:01,360

currently under cover nine one of four

94

00:04:07,030 --> 00:04:02,879

covers that they removed so they can

95

00:04:13,350 --> 00:04:10,869

the moi will remain in the bag

96

00:04:15,910 --> 00:04:13,360

you hear of joy drew feustel and special

97

00:04:20,150 --> 00:04:15,920

purpose dexterous manipulator arm

98

00:04:23,670 --> 00:04:22,069

close-up look at the work that mission

99

00:04:25,670 --> 00:04:23,680

specialist drew foster is doing with

100

00:04:28,390 --> 00:04:25,680

dexter's hand

101

00:04:29,590 --> 00:04:28,400

adding some grease to the stairs of the

102

00:04:30,710 --> 00:04:29,600

hand

103

00:04:33,030 --> 00:04:30,720

it's three different pieces of wires

104

00:04:35,350 --> 00:04:33,040

that constrict into a very small circle