



**IDA 3
SPACEWALK
ANIMATION**

1
00:00:03,710 --> 00:00:00,280

[Music]

2
00:00:06,769 --> 00:00:03,720

at the beginning of the EBA everyone will

3
00:00:09,490 --> 00:00:06,779

egress first and he'll be passed a bag

4
00:00:11,720 --> 00:00:09,500

from EB to and then e b2 will egress

5
00:00:13,879 --> 00:00:11,730

everyone is headed to the forward side of

6
00:00:16,880 --> 00:00:13,889

the vehicle they'll first pick up his

7
00:00:19,250 --> 00:00:16,890

ingress aide translate on the starboard

8
00:00:21,200 --> 00:00:19,260

side of the u.s. lab and out to the

9
00:00:22,880 --> 00:00:21,210

pressurized mating adapter number 3

10
00:00:25,220 --> 00:00:22,890

where he'll drop off his ingress aide

11
00:00:28,250 --> 00:00:25,230

and the bag and then he'll move his foot

12
00:00:31,759 --> 00:00:28,260

restraint to a new interface meanwhile

13
00:00:34,250 --> 00:00:31,769

he too will translate upon the truss to

14

00:00:37,910 --> 00:00:34,260

retrieve his foot restraint and ingress

15

00:00:40,220 --> 00:00:37,920

aide he'll be joining everyone on the

16

00:00:42,139 --> 00:00:40,230

forward part of the vehicle and set up

17

00:00:48,290 --> 00:00:42,149

his foot restraint on the forward part

18

00:00:51,529 --> 00:00:48,300

of PMA 3 at this point both crew members

19

00:00:52,400 --> 00:00:51,539

will attach tethers between ID a3 and

20

00:00:59,510 --> 00:00:52,410

PMA 3

21

00:01:05,670 --> 00:01:02,340

everyone will then retrieve the portable

22

00:01:08,750 --> 00:01:05,680

wireless camera install it on PMA - for

23

00:01:12,030 --> 00:01:08,760

a great forward view of the worksite

24

00:01:15,630 --> 00:01:12,040

he'll then return to the PMA 3 and

25

00:01:17,280 --> 00:01:15,640

ingress the foot restraint at this point

26
00:01:20,340 --> 00:01:17,290
both crew members will be routing and

27
00:01:22,590 --> 00:01:20,350
installing cables everyone will be

28
00:01:27,780 --> 00:01:22,600
working from the foot restraint while

29
00:01:30,060 --> 00:01:27,790
eb2 performs the rowdy these first two

30
00:01:33,030 --> 00:01:30,070
cables that are connected will supply

31
00:01:35,070 --> 00:01:33,040
the ready to hook sensor data that

32
00:01:38,130 --> 00:01:35,080
allows us to know that we have a flush

33
00:01:45,210 --> 00:01:38,140
and good contact mate between p.m. a

34
00:01:47,790 --> 00:01:45,220
three and a two a three a third cable is

35
00:01:50,730 --> 00:01:47,800
routed this is the ID a three heater

36
00:01:57,540 --> 00:01:50,740
power cable it will be plugged in later

37
00:02:00,120 --> 00:01:57,550
on in the after working the ass part of

38
00:02:03,990 --> 00:02:00,130

the interface the crew members will

39

00:02:05,940 --> 00:02:04,000

switch roles for the fourth panel eb2

40

00:02:10,199 --> 00:02:05,950

will ingress the foot restraint and eb1

41

00:02:13,890 --> 00:02:10,209

will route the cables these two cables

42

00:02:16,650 --> 00:02:13,900

allow us to power and have data to the

43

00:02:19,290 --> 00:02:16,660

hooks that will dry between p.m. a 3 and

44

00:02:21,630 --> 00:02:19,300

I to a 3 at this point the crew members

45

00:02:24,660 --> 00:02:21,640

will go quiet and will actually drive

46

00:02:26,190 --> 00:02:24,670

the hooks between the two modules once

47

00:02:29,610 --> 00:02:26,200

the hooks are driven we have a sound

48

00:02:32,490 --> 00:02:29,620

structural mate between the two modules

49

00:02:39,540 --> 00:02:32,500

the crew members will then begin routing

50

00:02:42,330 --> 00:02:39,550

additional cables these cables will now

51
00:02:45,780 --> 00:02:42,340
activate the zenith portion of ID a

52
00:02:57,570 --> 00:02:45,790
making ID a three assessable to future

53
00:03:00,449 --> 00:02:57,580
visiting vehicles the cables that are

54
00:03:03,150 --> 00:03:00,459
being routed during this EP a were

55
00:03:06,630 --> 00:03:03,160
brought outside on a previous CBA almost

56
00:03:10,080 --> 00:03:06,640
five years ago they have baked in the

57
00:03:12,500 --> 00:03:10,090
Sun and had UV and AO exposure so we

58
00:03:16,080 --> 00:03:12,510
expect them to be very difficult to

59
00:03:17,819 --> 00:03:16,090
manipulate and route and this is mostly

60
00:03:20,420 --> 00:03:17,829
due to the fact that they'll be stiff

61
00:03:23,100 --> 00:03:20,430
and want to retain the coiled shape

62
00:03:24,720 --> 00:03:23,110
after we've complete the routing on the

63
00:03:27,360 --> 00:03:24,730

fourth side you see that they switch

64

00:03:28,510 --> 00:03:27,370

roles again and route additional cables

65

00:03:34,670 --> 00:03:28,520

on the aft side

66

00:03:40,380 --> 00:03:37,770

the crew members have been completed all

67

00:03:43,440 --> 00:03:40,390

of their cable routing operations for

68

00:03:53,730 --> 00:03:50,450

[Music]

69

00:03:54,840 --> 00:03:53,740

at this point everyone will take a few

70

00:03:57,390 --> 00:03:54,850

closeout photos

71

00:04:01,800 --> 00:03:57,400

grab the portable wireless camera and

72

00:04:04,590 --> 00:04:01,810

install it into the bag everyone will

73

00:04:08,720 --> 00:04:04,600

then pick up the apr the foot restraint

74

00:04:10,880 --> 00:04:08,730

that is and return towards the airlock

75

00:04:16,020 --> 00:04:10,890

he'll then install the foot restraint

76
00:04:18,030 --> 00:04:16,030
into another interface eb-2 will then

77
00:04:20,460 --> 00:04:18,040
take some closeout photos of the work

78
00:04:23,760 --> 00:04:20,470
site and begin with some outfitting

79
00:04:26,960 --> 00:04:23,770
tasks this includes removing and

80
00:04:30,180 --> 00:04:26,970
installing some multi-layer insulation

81
00:04:32,850 --> 00:04:30,190
the zenith ml ID portion of ID EA will

82
00:04:36,210 --> 00:04:32,860
be taken off removed and installed into

83
00:04:39,260 --> 00:04:36,220
the bag and 2 hemi reflectors will be

84
00:04:46,399 --> 00:04:39,270
installed onto the ID a

85
00:04:51,929 --> 00:04:50,219
this footage shows 81 in his foot

86
00:04:53,999 --> 00:04:51,939
restraint actually manipulating some

87
00:04:59,279 --> 00:04:54,009
cables in our training facility the

88
00:05:01,709 --> 00:04:59,289

neutral buoyancy laboratory prior to

89

00:05:04,439 --> 00:05:01,719

flight crew members spend about nine

90

00:05:07,249 --> 00:05:04,449

hours at the neutral buoyancy laboratory

91

00:05:10,739 --> 00:05:07,259

tightens nine different to test events

92

00:05:18,540 --> 00:05:10,749

to help them train in a very appropriate

93

00:05:21,059 --> 00:05:18,550

flight like environment this footage

94

00:05:24,390 --> 00:05:21,069

shows eb-2 routing one of the cables on

95

00:05:26,030 --> 00:05:24,400

the port side of the lab towards the aft

96

00:05:32,090 --> 00:05:26,040

here

97

00:05:38,190 --> 00:05:35,940

the NBL is so large that we can fit

98

00:05:40,560 --> 00:05:38,200

full-size mock-ups of the International

99

00:05:42,330 --> 00:05:40,570

Space Station inside and the crew

100

00:05:51,090 --> 00:05:42,340

members get to perform a dress rehearsal

101
00:05:53,460 --> 00:05:51,100
of the actual EPA prior to flight after

102
00:05:56,960 --> 00:05:53,470
the ITA install tasks

103
00:06:00,540 --> 00:05:56,970
everyone will then ingress the s0 truss

104
00:06:03,360 --> 00:06:00,550
they'll perform operations of routing a

105
00:06:06,210 --> 00:06:03,370
booty around one of the connectors and

106
00:06:09,900 --> 00:06:06,220
installing a truss jumper for redundancy

107
00:06:12,630 --> 00:06:09,910
of the robotic arm the next couple of

108
00:06:15,990 --> 00:06:12,640
tasks involved expanding our external

109
00:06:19,560 --> 00:06:16,000
wireless communication systems and it

110
00:06:22,380 --> 00:06:19,570
involves routing a few legs one to the

111
00:06:25,050 --> 00:06:22,390
aft side of the u.s. lab and the other

112
00:06:34,260 --> 00:06:25,060
on the fourth side ford zenith side of

113
00:06:36,030 --> 00:06:34,270

the u.s. laboratory Evie tube meanwhile

114

00:06:39,110 --> 00:06:36,040

will pick up his foot restraint and

115

00:06:41,610 --> 00:06:39,120

return it to the starboard seated cart

116

00:06:44,040 --> 00:06:41,620

he'll then move over to the port cita

117

00:06:45,900 --> 00:06:44,050

cart and install a wire tie between the

118

00:06:49,140 --> 00:06:45,910

foot restraint and the ingress aid for a

119

00:06:55,809 --> 00:06:52,360

lastly they'll pick up the bag that was

120

00:06:58,350 --> 00:06:55,819

left at the id8 worksite and return to

121

00:07:00,969 --> 00:06:58,360

the airlock where he'll meet eveyone

122

00:07:02,499 --> 00:07:00,979

at the end of the EBA they'll pass in

123

00:07:03,120 --> 00:07:02,509

the bag and both crewmembers will