



1
00:00:07,430 --> 00:00:03,270
okay rick uh your go to open the thermal

2
00:00:11,110 --> 00:00:08,950
okay so the

3
00:00:14,549 --> 00:00:11,120
thermal cover is already open and i'm on

4
00:00:17,910 --> 00:00:16,470
here we have an external view of the

5
00:00:19,670 --> 00:00:17,920
station you can see

6
00:00:21,670 --> 00:00:19,680
uh rick mastracchio in the suit with the

7
00:00:24,150 --> 00:00:21,680
red stripes there leaving the quest

8
00:00:27,109 --> 00:00:24,160
airlock the suits on battery power the

9
00:00:30,230 --> 00:00:27,119
eva officially starting at 8 56 a.m

10
00:00:31,910 --> 00:00:30,240
central time

11
00:00:33,990 --> 00:00:31,920
ground iv jeremy hansen from the

12
00:00:35,590 --> 00:00:34,000
canadian space agency taking over

13
00:00:39,670 --> 00:00:35,600

communication between mission control

14

00:00:44,630 --> 00:00:41,590

mastracchio and swanson now heading

15

00:00:46,069 --> 00:00:44,640

outside will quickly translate over to

16

00:00:48,229 --> 00:00:46,079

their work site

17

00:00:51,670 --> 00:00:48,239

on the s0 trust to begin their work of

18

00:00:55,029 --> 00:00:51,680

replacing this failed mdm unit

19

00:00:56,630 --> 00:00:55,039

thanks i appreciate that no problem

20

00:00:58,549 --> 00:00:56,640

they just completed a quick check making

21

00:00:59,510 --> 00:00:58,559

sure all their safety tethers are in

22

00:01:01,510 --> 00:00:59,520

place

23

00:01:03,910 --> 00:01:01,520

before heading out to the outer portion

24

00:01:05,750 --> 00:01:03,920

of the space station

25

00:01:08,630 --> 00:01:05,760

you can see how the air locks thermal

26

00:01:12,070 --> 00:01:08,640

cover it's the large white flap there

27

00:01:18,789 --> 00:01:15,429

your safety team is closed and locked

28

00:01:25,670 --> 00:01:18,799

back on black your reel is unlocked

29

00:01:30,390 --> 00:01:28,310

well swanson gets ready to stow that bag

30

00:01:33,749 --> 00:01:30,400

mastracchio continuing to

31

00:01:53,429 --> 00:01:33,759

inspect the mdm for any potential damage

32

00:01:59,030 --> 00:01:55,990

hear the view from another angle that's

33

00:02:00,950 --> 00:01:59,040

nasa astronaut steve swanson ev2 i was

34

00:02:05,270 --> 00:02:00,960

working to uh break out a couple of the

35

00:02:11,430 --> 00:02:07,510

these astronauts used for driving all

36

00:02:13,190 --> 00:02:11,440

the bolts for different station systems

37

00:02:15,190 --> 00:02:13,200

all nominal

38

00:02:17,190 --> 00:02:15,200

okay good words rick and when convenient

39

00:02:21,030 --> 00:02:17,200

for you we'd like you to read the mdm

40

00:02:24,550 --> 00:02:22,309

okay is that the number right on the

41

00:02:27,110 --> 00:02:24,560

front it says mdm16

42

00:02:28,550 --> 00:02:27,120

echo 0 102 or do you want the label on

43

00:02:30,710 --> 00:02:28,560

the top

44

00:02:33,990 --> 00:02:30,720

no that's the right one rick

45

00:02:37,670 --> 00:02:35,910

okay we copy that rick we had the other

46

00:02:39,830 --> 00:02:37,680

end of that rhett now going back to

47

00:02:42,790 --> 00:02:39,840

handrail three four four six which is

48

00:02:50,229 --> 00:02:42,800

just uh aft of the mdm on the starboard

49

00:02:57,110 --> 00:02:52,710

i'll just keep it on me houston

50

00:03:01,350 --> 00:02:59,990

so for sure have this other one off

51
00:03:05,589 --> 00:03:01,360
okay we've got a good view of it in your

52
00:03:05,599 --> 00:03:17,030
okay swanny we'll go for as requested

53
00:03:20,710 --> 00:03:18,790
so the two space walking astronauts

54
00:03:22,710 --> 00:03:20,720
moving right along to their timeline

55
00:03:25,509 --> 00:03:22,720
rick mastracchio already driving the two

56
00:03:27,589 --> 00:03:25,519
secondary bolts on the failed mdm

57
00:03:28,949 --> 00:03:27,599
following which he'll release the center

58
00:03:31,110 --> 00:03:28,959
jacking bolt

59
00:03:32,630 --> 00:03:31,120
it's about 14 turns at this time i think

60
00:03:34,229 --> 00:03:32,640
the ball popped out a little while ago

61
00:03:35,910 --> 00:03:34,239
but there's just not much

62
00:03:37,190 --> 00:03:35,920
not much play on the balls when i push

63
00:03:40,550 --> 00:03:37,200

it in you know

64

00:03:42,550 --> 00:03:40,560

i just wasn't 100 sure it was out

65

00:03:44,789 --> 00:03:42,560

you see it in my wvs

66

00:03:47,270 --> 00:03:44,799

we do we have a good view

67

00:03:49,430 --> 00:03:47,280

and we're happy with that config rick

68

00:03:51,030 --> 00:03:49,440

taffy no problem the main bolt on the

69

00:03:53,589 --> 00:03:51,040

new mdm already driven the first

70

00:03:55,750 --> 00:03:53,599

secondary bolt on the way in

71

00:03:58,149 --> 00:03:55,760

don't forget to look down steve we're

72

00:04:01,270 --> 00:03:58,159

good for it

73

00:04:03,030 --> 00:04:01,280

four turns zero torque five

74

00:04:04,070 --> 00:04:03,040

six turn zero torque starting to pick up

75

00:04:05,830 --> 00:04:04,080

some torque

76
00:04:06,830 --> 00:04:05,840
and we got a third green light on the

77
00:04:09,030 --> 00:04:06,840
torque

78
00:04:11,429 --> 00:04:09,040
6.61 turns

79
00:04:12,830 --> 00:04:11,439
torque was two decimal

80
00:04:14,390 --> 00:04:12,840
three

81
00:04:15,350 --> 00:04:14,400
actually

82
00:04:18,229 --> 00:04:15,360
okay

83
00:04:21,110 --> 00:04:18,239
6.61 turns 2.3 torque we're happy with

84
00:04:23,270 --> 00:04:21,120
that we're ready to reset to bravo one

85
00:04:25,749 --> 00:04:23,280
clockwise two to do the same thing on

86
00:04:27,670 --> 00:04:25,759
the other secondary bolt

87
00:04:29,670 --> 00:04:27,680
okay rick obviously you're into site

88
00:04:31,510 --> 00:04:29,680

cleanup swaney when able over to the

89

00:04:33,350 --> 00:04:31,520

spda doors

90

00:04:34,710 --> 00:04:33,360

and when you're clear of the mdm rick

91

00:04:39,430 --> 00:04:34,720

we're going to give them a go to power

92

00:04:43,670 --> 00:04:42,390

okay let me just get clear for swami

93

00:04:46,310 --> 00:04:43,680

yeah i'm gonna just kind of swing off

94

00:04:47,350 --> 00:04:46,320

how bad back i'm gonna go far

95

00:04:48,870 --> 00:04:47,360

right my

96

00:04:56,550 --> 00:04:48,880

safety tire is going over yours is

97

00:05:00,550 --> 00:04:58,469

and i'm clear okay

98

00:05:02,629 --> 00:05:00,560

steve swanson translating over to those

99

00:05:04,390 --> 00:05:02,639

spda doors where he's going to do a

100

00:05:06,230 --> 00:05:04,400

quick lanyard cut task

101
00:05:07,830 --> 00:05:06,240
okay houston i am i don't know what you

102
00:05:11,029 --> 00:05:07,840
mean by clear of the mdm i'm not

103
00:05:12,790 --> 00:05:11,039
touching it so uh i'll just move over

104
00:05:16,070 --> 00:05:12,800
outboard a little bit and get a little

105
00:05:16,080 --> 00:05:19,510
copy that rick

106
00:05:25,590 --> 00:05:24,230
i'm gonna pick up my adjustable jeremy

107
00:05:36,790 --> 00:05:25,600
okay copy you're picking up your

108
00:05:41,029 --> 00:05:38,710
strap strache just completed the

109
00:05:43,270 --> 00:05:41,039
installation of the new mdm driving all

110
00:05:45,749 --> 00:05:43,280
the bolts without any issues getting it

111
00:05:47,510 --> 00:05:45,759
installed quickly and cleanly you can

112
00:05:50,790 --> 00:05:47,520
tackle cleanup we'll also be looking for

113
00:05:52,710 --> 00:05:50,800

some closeout photos and a bit of a pre