



1
00:00:03,669 --> 00:00:01,750
we're standing by for the beginning of

2
00:00:06,950 --> 00:00:03,679
this rendezvous pitch maneuver is due to

3
00:00:13,270 --> 00:00:06,960
begin at 12 15 pm central time

4
00:00:18,550 --> 00:00:16,950
you can see the shadow of the spacecraft

5
00:00:30,470 --> 00:00:18,560
beginning to creep up there on

6
00:00:35,110 --> 00:00:32,630
my discovery holding right at 650 feet

7
00:00:37,069 --> 00:00:35,120
away from the station

8
00:01:19,749 --> 00:00:37,079
station discovery on the big

9
00:01:22,870 --> 00:01:21,270
so as discovery flies with the

10
00:01:24,550 --> 00:01:22,880
international space station over south

11
00:01:26,550 --> 00:01:24,560
america the station

12
00:01:28,310 --> 00:01:26,560
casting a shadow down there on the

13
00:01:29,990 --> 00:01:28,320

shuttle

14

00:01:31,510 --> 00:01:30,000

katie coleman and paulo nespoli have

15

00:01:33,190 --> 00:01:31,520

taken a position

16

00:01:37,109 --> 00:01:33,200

inside the zvezda service module they

17

00:01:42,630 --> 00:01:39,510

they will begin to take pictures of

18

00:01:44,149 --> 00:01:42,640

discovery as soon as it begins this uh

19

00:01:46,230 --> 00:01:44,159

maneuver

20

00:01:47,910 --> 00:01:46,240

to a flip over on its back and show its

21

00:01:49,270 --> 00:01:47,920

underside to the crew so they can take a

22

00:03:36,630 --> 00:01:49,280

look at all the different heat shield

23

00:03:40,070 --> 00:03:39,270

my call initiating rpm

24

00:03:46,070 --> 00:03:40,080

three

25

00:03:50,229 --> 00:03:48,390

so at 12 15 pm central time space

26

00:03:51,430 --> 00:03:50,239

shuttle discovery begins its final

27

00:03:52,949 --> 00:03:51,440

backflip maneuver known as the

28

00:03:55,509 --> 00:03:52,959

rendezvous pitch maneuver it will flip

29

00:03:57,750 --> 00:03:55,519

over on its back katie coleman and paulo

30

00:03:59,990 --> 00:03:57,760

nespoli are in the zvezda service module

31

00:04:01,830 --> 00:04:00,000

of the international space station both

32

00:04:03,589 --> 00:04:01,840

of them have cameras and hands snapping

33

00:04:05,270 --> 00:04:03,599

away hundreds of pictures of discovery

34

00:04:07,830 --> 00:04:05,280

during this maneuver

35

00:04:09,030 --> 00:04:07,840

apollo nestle has a lens that is 800

36

00:04:11,429 --> 00:04:09,040

millimeters

37

00:04:14,149 --> 00:04:11,439

coleman has a 400 millimeter lens in her

38

00:04:15,990 --> 00:04:14,159

hands

39

00:04:17,670 --> 00:04:16,000

they will take very detailed photographs

40

00:04:18,870 --> 00:04:17,680

of discovery's heat shield all the

41

00:04:20,710 --> 00:04:18,880

different tiles that are on the bottom

42

00:04:22,950 --> 00:04:20,720

of the shuttle to make sure that they

43

00:04:28,469 --> 00:04:22,960

are in good shape after discoveries ride

44

00:04:32,550 --> 00:04:30,550

this is a historic moment for discovery

45

00:04:37,430 --> 00:04:32,560

it was the first shuttle to ever do this

46

00:04:39,990 --> 00:04:37,440

maneuver back on sts-114 in 2005.

47

00:04:42,469 --> 00:04:40,000

this rpm maneuver was created in the

48

00:04:46,629 --> 00:04:42,479

wake of shuttle columbia

49

00:04:50,150 --> 00:04:48,390

it was put into every shuttle mission

50

00:04:51,430 --> 00:04:50,160

that has visited the space station since

51
00:04:52,950 --> 00:04:51,440
then

52
00:04:55,670 --> 00:04:52,960
it gives the ground teams here in

53
00:04:59,430 --> 00:04:57,590
a chance to take a look at the shuttle

54
00:05:02,390 --> 00:04:59,440
in detail to make sure that the outer

55
00:06:49,110 --> 00:05:02,400
part of the shuttle and the heat shield

56
00:06:53,189 --> 00:06:51,110
as katie coleman and paulo nespoli take

57
00:06:56,790 --> 00:06:53,199
these pictures

58
00:06:58,710 --> 00:06:56,800
of the underside of discovery it's a

59
00:07:00,469 --> 00:06:58,720
very methodical way that they do this

60
00:07:11,510 --> 00:07:00,479
they focus on certain areas of the

61
00:07:17,670 --> 00:07:13,749
both nespoli and coleman have practiced

62
00:07:21,589 --> 00:07:19,350
they've worked very closely with these

63
00:07:23,270 --> 00:07:21,599

two cameras and they've seen both

64

00:07:24,390 --> 00:07:23,280

diagrams and video

65

00:08:26,710 --> 00:07:24,400

of the parts of the shuttle that they

66

00:08:44,949 --> 00:08:29,110

discovery currently 582 feet away from

67

00:08:49,590 --> 00:08:46,710

esplee and coleman have wrapped up their

68

00:08:51,750 --> 00:08:49,600

photographs of discovery's heat shield

69

00:08:53,990 --> 00:08:51,760

they spend one minute 29 seconds taking

70

00:08:55,350 --> 00:08:54,000

those pictures as we mentioned

71

00:08:56,870 --> 00:08:55,360

they take several hundred pictures

72

00:08:58,630 --> 00:08:56,880

between the two of them

73

00:09:00,470 --> 00:08:58,640

once we get an exact count later on

74

00:09:02,310 --> 00:09:00,480

today of how many they uh took we will

75

00:09:03,590 --> 00:09:02,320

make sure we pass it on to you

76

00:09:05,110 --> 00:09:03,600

but they will begin the process of

77

00:09:06,470 --> 00:09:05,120

downlinking those photos to the ground

78

00:09:47,190 --> 00:09:06,480

teams here in houston soon after

79

00:09:51,190 --> 00:09:49,430

discovery putting on quite a show there

80

00:09:52,949 --> 00:09:51,200

as it and the

81

00:09:54,230 --> 00:09:52,959

space station fly

82

00:09:55,509 --> 00:09:54,240

over the northeastern part of south

83

00:09:58,790 --> 00:09:55,519

america about to head out over the

84

00:11:28,790 --> 00:10:00,230

we are now less than an hour away from

85

00:11:33,910 --> 00:11:30,230

discovery's crew has almost wrapped up

86

00:11:37,269 --> 00:11:35,829

you can see the shadows getting fairly

87

00:11:39,430 --> 00:11:37,279

long

88

00:11:40,790 --> 00:11:39,440

on the exterior of discovery this is why

89

00:11:42,310 --> 00:11:40,800

they talked about the window opening at

90

00:11:45,430 --> 00:11:42,320

12 15

91

00:11:46,389 --> 00:11:45,440

p.m central time and 12 23 p.m central

92

00:11:48,150 --> 00:11:46,399

time

93

00:11:49,750 --> 00:11:48,160

they have to get proper

94

00:11:53,110 --> 00:11:49,760

lighting on discovery to make sure that

95

00:11:55,110 --> 00:11:53,120

the pictures turn out as expected

96

00:11:56,870 --> 00:11:55,120

but those shadows began to appear uh