

1
00:00:04,150 --> 00:00:01,670
again it will take about five minutes

2
00:00:06,550 --> 00:00:04,160
for your chicken to back the soyuz away

3
00:00:08,549 --> 00:00:06,560
from the rassvet module to a distance of

4
00:00:10,870 --> 00:00:08,559
about 180 meters

5
00:00:12,549 --> 00:00:10,880
at that point he will rotate the soyuz

6
00:00:14,390 --> 00:00:12,559
that will position the solar arrays in

7
00:00:16,470 --> 00:00:14,400
the correct orientation

8
00:00:18,070 --> 00:00:16,480
for a period of station keeping so that

9
00:00:20,790 --> 00:00:18,080
russian flight controllers here can

10
00:00:24,070 --> 00:00:20,800
evaluate all of the systems on the soyuz

11
00:00:25,990 --> 00:00:24,080
spacecraft uh beca before he begins a

12
00:00:26,870 --> 00:00:26,000
seven minute maneuver a fly around if

13
00:00:30,310 --> 00:00:26,880

you will

14

00:00:32,549 --> 00:00:30,320

to reposition the soyuz uh 180 meters or

15

00:00:34,389 --> 00:00:32,559

so away from the ask port of the zvezda

16

00:00:36,470 --> 00:00:34,399

service module

17

00:00:38,950 --> 00:00:36,480

about four minutes of additional station

18

00:00:41,030 --> 00:00:38,960

keeping uh will be in play at that point

19

00:00:43,670 --> 00:00:41,040

to enable uh the chief flight director

20

00:00:44,790 --> 00:00:43,680

here in karlijv vladimir solovia

21

00:00:46,630 --> 00:00:44,800

to

22

00:00:48,549 --> 00:00:46,640

pull his team of flight controllers and

23

00:00:50,630 --> 00:00:48,559

make sure that everything is in good

24

00:00:53,670 --> 00:00:50,640

shape for the resumption of the final

25

00:00:57,670 --> 00:00:53,680

approach for docking with the link up to

26
00:01:04,950 --> 00:00:57,680
the aft port of zvezda expected at 3 58

27
00:01:09,750 --> 00:01:07,910
the physical separation

28
00:01:12,710 --> 00:01:09,760
undocking confirmed

29
00:01:16,710 --> 00:01:12,720
physical separation confirmed at 3 33

30
00:01:19,510 --> 00:01:16,720
a.m central time 12 33 pm moscow time as

31
00:01:21,510 --> 00:01:19,520
the international space station flew 262

32
00:01:49,590 --> 00:01:21,520
statute miles over the south atlantic

33
00:02:06,149 --> 00:01:51,270
ready for the

34
00:02:06,159 --> 00:02:16,470
led illuminated copy all right

35
00:02:34,390 --> 00:02:18,790
we're seeing the

36
00:02:34,400 --> 00:02:45,830
can you look at

37
00:02:52,550 --> 00:02:50,070
can you switch to uh the narrow angle

38
00:02:54,710 --> 00:02:52,560

and and the docking interface is clean

39

00:02:56,309 --> 00:02:54,720

we're seeing it

40

00:02:57,589 --> 00:02:56,319

oh there's your question there

41

00:03:01,670 --> 00:02:57,599

yes we're seeing everything we should be

42

00:03:06,630 --> 00:03:03,190

three squares

43

00:03:06,640 --> 00:03:10,390

targets with

44

00:03:14,309 --> 00:03:12,229

soyuz commander fyodor yurchikhin

45

00:03:16,470 --> 00:03:14,319

reporting that the docking interface at

46

00:03:19,270 --> 00:03:16,480

the rossviet module that the soyuz just

47

00:03:21,270 --> 00:03:19,280

departed from is clean that's good news

48

00:03:23,670 --> 00:03:21,280

for the next crew that will be arriving

49

00:03:24,949 --> 00:03:23,680

to uh linked up to raspbian just six

50

00:03:27,110 --> 00:03:24,959

days from now

51
00:03:28,630 --> 00:03:27,120
a good view of the soyuz as you check in

52
00:03:30,550 --> 00:03:28,640
at the controls of the soyuz and the

53
00:03:32,869 --> 00:03:30,560
descent module in the center seat

54
00:03:35,110 --> 00:03:32,879
flanked on his left by luca parmitano

55
00:03:37,030 --> 00:03:35,120
and karen nyberg on his right

56
00:03:39,430 --> 00:03:37,040
begin this maneuver to back away to a

57
00:03:41,110 --> 00:03:39,440
distance of about 180 meters

58
00:03:43,350 --> 00:03:41,120
where the soyuz will begin a short

59
00:03:45,830 --> 00:03:43,360
period of station keeping it should take

60
00:03:47,830 --> 00:03:45,840
about five minutes for this back out

61
00:03:50,470 --> 00:03:47,840
procedure to be completed

62
00:03:52,710 --> 00:03:50,480
and set the stage for an initial check

63
00:03:55,030 --> 00:03:52,720

of the soyuz systems before your chicken

64

00:04:01,670 --> 00:03:55,040

begins to fly around to the aft end of

65

00:04:06,710 --> 00:04:04,949

as far as the width of the

66

00:04:11,670 --> 00:04:06,720

backing interface we're about three

67

00:04:11,680 --> 00:04:16,789

sending inaudible

68

00:04:21,270 --> 00:04:18,710

this view now through

69

00:04:23,110 --> 00:04:21,280

video being relayed from the soyuz

70

00:04:24,629 --> 00:04:23,120

spacecraft in the upper left-hand corner

71

00:04:27,749 --> 00:04:24,639

a good view through the engineering

72

00:04:30,469 --> 00:04:27,759

cameras on the exterior of the

73

00:04:32,710 --> 00:04:30,479

spacecraft as your chicken now begins to

74

00:04:35,270 --> 00:04:32,720

align the forward docking probe on the

75

00:04:37,110 --> 00:04:35,280

soyuz with the aft port of the zvezda

76

00:04:39,670 --> 00:04:37,120

service module

77

00:04:41,909 --> 00:04:39,680

first launched in july of 2000

78

00:04:44,150 --> 00:04:41,919

to serve as the first living quarters

79

00:04:46,550 --> 00:04:44,160

aboard the international space station

80

00:04:48,469 --> 00:04:46,560

uh all of this activity began with the

81

00:04:52,070 --> 00:04:48,479

launching of the zarya module back in

82

00:04:53,749 --> 00:04:52,080

november of 1998 almost 15 years ago

83

00:04:56,230 --> 00:04:53,759

just three weeks shy of the 15th

84

00:04:58,550 --> 00:04:56,240

anniversary of that first element launch

85

00:05:01,510 --> 00:04:58,560

now culminating with uh

86

00:05:03,110 --> 00:05:01,520

soon next week the resumption of nine

87

00:05:04,950 --> 00:05:03,120

people on board the international space

88

00:05:07,350 --> 00:05:04,960

station the first time that that's been

89

00:05:12,710 --> 00:05:07,360
accomplished since october 2009 without

90

00:05:17,510 --> 00:05:15,029
from 2.8 copy that

91

00:05:19,830 --> 00:05:17,520
about two meters away

92

00:05:22,230 --> 00:05:19,840
as we stand by for contact and capture

93

00:06:03,270 --> 00:05:22,240
of the soyuz tma-09m

94

00:06:03,280 --> 00:06:17,749
the crosshairs are aligned copy

95

00:06:17,759 --> 00:06:26,390
standing by for contact

96

00:06:26,400 --> 00:06:43,430
just a few feet away now from docking

97

00:06:46,469 --> 00:06:45,430
your chicken continues to slowly press

98

00:06:54,150 --> 00:06:46,479
in

99

00:06:57,589 --> 00:06:55,589
the target is at the center of the

100

00:07:14,870 --> 00:06:57,599
crosshairs the crosshairs are aligned

101
00:07:14,880 --> 00:07:20,550
contact

102
00:07:24,710 --> 00:07:22,150
the international space station now in

103
00:07:26,070 --> 00:07:24,720
free drift thrusters are disabled for

104
00:07:29,670 --> 00:07:26,080
the moment

105
00:07:31,350 --> 00:07:29,680
docking confirmed at 3 54 am central

106
00:07:32,950 --> 00:07:31,360
time

107
00:07:36,469 --> 00:07:32,960
as the international space station and

108
00:07:38,309 --> 00:07:36,479
the soyuz vehicle flew 262 miles over