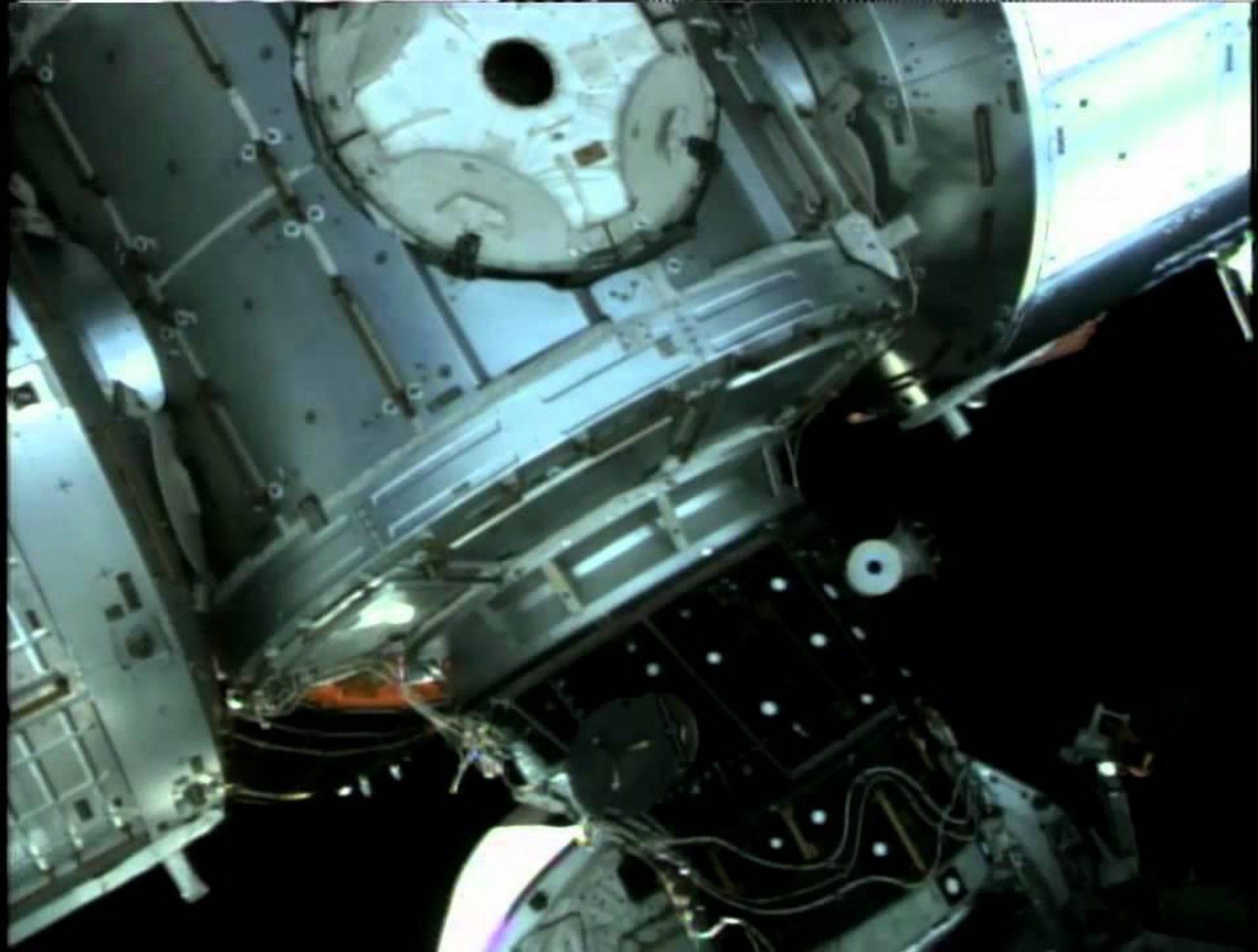

1
00:00:11,030 --> 00:00:09,350
flight day three of shuttle mission

2
00:00:13,589 --> 00:00:11,040
sts-133

3
00:00:15,270 --> 00:00:13,599
showing a successful link up of shuttle

4
00:00:17,750 --> 00:00:15,280
discovery to the international space

5
00:00:20,150 --> 00:00:17,760
station on its final flight

6
00:00:22,230 --> 00:00:20,160
rendezvous activities got started early

7
00:00:24,230 --> 00:00:22,240
saturday morning as the

8
00:00:26,950 --> 00:00:24,240
shuttle crew commander steve lindsey and

9
00:00:29,429 --> 00:00:26,960
his crew got busy with engine firings

10
00:00:31,589 --> 00:00:29,439
that brought discovery up underneath the

11
00:00:34,150 --> 00:00:31,599
international space station

12
00:00:34,950 --> 00:00:34,160
my call initiating rpm

13
00:00:37,270 --> 00:00:34,960

three

14
00:00:39,350 --> 00:00:37,280
two one mark

15
00:00:41,910 --> 00:00:39,360
from there they performed the

16
00:00:44,549 --> 00:00:41,920
standard rendezvous pitch maneuver a

17
00:00:47,110 --> 00:00:44,559
head over heels back flip of the shuttle

18
00:00:49,750 --> 00:00:47,120
that allowed station crew members using

19
00:00:52,310 --> 00:00:49,760
digital cameras with high powered lenses

20
00:00:54,869 --> 00:00:52,320
to capture imagery of the heat shield

21
00:00:56,389 --> 00:00:54,879
tiles on the underside of discovery

22
00:00:59,029 --> 00:00:56,399
they're looking for any evidence of

23
00:01:02,069 --> 00:00:59,039
damage done to that thermal protection

24
00:01:03,910 --> 00:01:02,079
system by debris on ascent or

25
00:01:06,070 --> 00:01:03,920
subsequently on orbit

26
00:01:09,510 --> 00:01:06,080
they then proceeded on into the docking

27
00:01:12,230 --> 00:01:09,520
which took place at 1 14 central time

28
00:01:13,910 --> 00:01:12,240
the 13th and final docking of shuttle

29
00:01:16,310 --> 00:01:13,920
discovery to the international space

30
00:01:19,590 --> 00:01:16,320
station there was something of a delay

31
00:01:22,630 --> 00:01:19,600
in finalizing the hard mate of the two

32
00:01:24,630 --> 00:01:22,640
vehicles they were had to wait until the

33
00:01:27,670 --> 00:01:24,640
relative motion of the two vehicles

34
00:01:30,550 --> 00:01:27,680
damped out and in the process that

35
00:01:32,789 --> 00:01:30,560
allowed unfortunately the stack rotated

36
00:01:34,630 --> 00:01:32,799
a bit in orbit because both vehicles

37
00:01:37,350 --> 00:01:34,640
were in free drift

38
00:01:40,789 --> 00:01:37,360

but that was resolved in about a half an

39
00:01:43,190 --> 00:01:40,799
hour's time the two vehicles had a hard

40
00:01:46,789 --> 00:01:43,200
mate and the space shuttle engines were

41
00:01:49,670 --> 00:01:46,799
used to bring the mated stack into a

42
00:01:52,149 --> 00:01:49,680
proper position so that the station's

43
00:01:54,310 --> 00:01:52,159
solar arrays could once again begin

44
00:01:55,429 --> 00:01:54,320
generating electricity to power the

45
00:01:57,109 --> 00:01:55,439
batteries

46
00:02:00,950 --> 00:01:57,119
the hatches between the two vehicles

47
00:02:03,030 --> 00:02:00,960
opened at 3 16 houston time and the crew

48
00:02:05,350 --> 00:02:03,040
of the space shuttle joined their

49
00:02:08,469 --> 00:02:05,360
station crewmates on board

50
00:02:11,670 --> 00:02:08,479
and began right away to begin transfer

51
00:02:14,150 --> 00:02:11,680
of spacewalk equipment that will be used

52
00:02:16,790 --> 00:02:14,160
by mission specialists al drew and steve

53
00:02:18,790 --> 00:02:16,800
bowen during spacewalks coming up on

54
00:02:21,270 --> 00:02:18,800
monday and wednesday

55
00:02:23,670 --> 00:02:21,280
the largest activity of the day was

56
00:02:26,309 --> 00:02:23,680
completed late in the crew day the

57
00:02:28,949 --> 00:02:26,319
installation of the express logistics

58
00:02:31,350 --> 00:02:28,959
carrier number four was completed

59
00:02:33,589 --> 00:02:31,360
through the use of the two robot arms

60
00:02:36,630 --> 00:02:33,599
the space station's robotic arm

61
00:02:38,790 --> 00:02:36,640
unbirthed the elc-3 from the payload bay

62
00:02:41,509 --> 00:02:38,800
and handed it off to the space shuttle

63
00:02:43,670 --> 00:02:41,519

arm then the station arm changed its

64
00:02:47,030 --> 00:02:43,680
base of operations from the harmony

65
00:02:49,270 --> 00:02:47,040
module to the mobile base system

66
00:02:51,750 --> 00:02:49,280
from there it was commanded by mission

67
00:02:55,190 --> 00:02:51,760
specialist nicole stott operating out of

68
00:02:58,470 --> 00:02:55,200
the cupola module to reach back out and

69
00:03:00,390 --> 00:02:58,480
take a grip once again on elc 4. the

70
00:03:04,390 --> 00:03:00,400
shuttle arm released it

71
00:03:06,630 --> 00:03:04,400
and stott guided elc-4 to a berth on the

72
00:03:10,070 --> 00:03:06,640
underside of the space station's truss

73
00:03:12,390 --> 00:03:10,080
structure on the starboard 3 element

74
00:03:15,270 --> 00:03:12,400
where the crew members completed their

75
00:03:18,470 --> 00:03:15,280
daily tasks it was really very

76
00:03:19,910 --> 00:03:18,480
impressive working from the cupola and

77
00:03:22,869 --> 00:03:19,920
watching how these arms work together

78
00:03:24,630 --> 00:03:22,879
and getting elc birth to the trust

79
00:03:26,309 --> 00:03:24,640
thanks those words nicole and you guys