



1
00:00:03,750 --> 00:00:01,910
vehicles and startup the flight computer

2
00:00:05,030 --> 00:00:03,760
has control of the vehicle

3
00:00:08,549 --> 00:00:05,040
dragon

4
00:00:12,789 --> 00:00:10,870
dc net confirmer and startup

5
00:00:21,990 --> 00:00:12,799
dc confirms my computer is in startup

6
00:00:22,000 --> 00:00:25,589
tanks are at flight pressure

7
00:00:31,429 --> 00:00:27,990
oxygen and rp1 engines are killed for

8
00:00:31,439 --> 00:00:39,590
everything is go

9
00:00:39,600 --> 00:00:44,069
t minus 20.

10
00:00:47,510 --> 00:00:45,510
the engine control

11
00:00:49,750 --> 00:00:47,520
command the engine ignition sequence to

12
00:00:50,709 --> 00:00:49,760
start at t-minus three seconds

13
00:00:51,590 --> 00:00:50,719

ten

14

00:00:52,470 --> 00:00:51,600

nine

15

00:00:53,350 --> 00:00:52,480

eight

16

00:00:54,389 --> 00:00:53,360

seven

17

00:00:56,389 --> 00:00:54,399

six

18

00:00:57,510 --> 00:00:56,399

five four

19

00:00:58,709 --> 00:00:57,520

three

20

00:01:03,189 --> 00:00:58,719

two

21

00:01:07,429 --> 00:01:06,390

and liftoff of the falcon 9 rocket and

22

00:01:10,550 --> 00:01:07,439

dragon

23

00:01:12,550 --> 00:01:10,560

spacex three is underway

24

00:01:15,190 --> 00:01:12,560

an american commercial spacecraft

25

00:01:17,429 --> 00:01:15,200

launching from u.s soil makes a special

26
00:01:21,749 --> 00:01:17,439
delivery of new science and technology

27
00:01:21,759 --> 00:01:35,350
first stage propulsion is nominal

28
00:01:35,360 --> 00:01:45,990
35 seconds into flight

29
00:01:56,069 --> 00:01:49,069
forty-five seconds into the

30
00:02:00,469 --> 00:01:57,990
at one minute and 13 seconds after

31
00:02:26,869 --> 00:02:00,479
liftoff falcon 9 will reach supersonic

32
00:02:26,879 --> 00:02:31,430
falcon first stage propulsion is nominal

33
00:02:35,030 --> 00:02:33,509
power system is terminal solid terminal

34
00:02:36,949 --> 00:02:35,040
stages

35
00:02:43,589 --> 00:02:36,959
falcon 9 passing through the area of

36
00:02:43,599 --> 00:02:48,790
one minute 45 seconds after liftoff

37
00:02:52,390 --> 00:02:51,270
t plus 110 seconds altitude 24

38
00:02:54,790 --> 00:02:52,400

kilometers

39

00:02:55,750 --> 00:02:54,800
speed 785 meters per second downrange

40

00:03:04,229 --> 00:02:55,760
this time

41

00:03:04,239 --> 00:03:09,589
flying down the nominal

42

00:03:15,110 --> 00:03:11,270
main engine cutoff expected at two

43

00:03:15,120 --> 00:03:30,149
two minutes 15 seconds into flight now

44

00:03:33,990 --> 00:03:32,550
t plus two minutes 30 seconds vehicle

45

00:03:36,070 --> 00:03:34,000
100

46

00:03:37,110 --> 00:03:36,080
correction vehicle 63 kilometers

47

00:03:39,670 --> 00:03:37,120
altitude

48

00:03:46,390 --> 00:03:39,680
speed 1.8 kilometers per second

49

00:03:46,400 --> 00:03:49,910
stage separation confirmed

50

00:03:49,920 --> 00:03:53,429
and we have miko one

51
00:03:57,990 --> 00:03:55,509
main engine cut off and separation of

52
00:04:04,949 --> 00:03:58,000
the first stage of occurred

53
00:04:09,990 --> 00:04:07,190
t plus three minutes

54
00:04:11,270 --> 00:04:10,000
vehicle altitude 103 kilometers speed

55
00:04:15,830 --> 00:04:11,280
two kilometer

56
00:04:18,870 --> 00:04:15,840
downrange distance 103 kilometers

57
00:04:21,030 --> 00:04:18,880
the second stage engine has ignited

58
00:04:29,590 --> 00:04:21,040
to begin about a seven minute burn that

59
00:04:29,600 --> 00:04:38,469
three minutes thirty seconds into flight

60
00:04:42,469 --> 00:04:39,909
t plus six minutes forty seconds

61
00:04:45,110 --> 00:04:42,479
trajectory status

62
00:04:48,390 --> 00:04:45,120
284

63
00:04:50,070 --> 00:04:48,400

kilometers altitude speed 3.6 kilometers

64

00:05:00,550 --> 00:04:50,080

per second downrange distance 600

65

00:05:00,560 --> 00:05:19,909

stage two propulsion is still nominal

66

00:05:38,870 --> 00:05:22,150

seven minutes 21 seconds into the flight

67

00:05:59,510 --> 00:05:41,270

about two minutes away from second stage

68

00:05:59,520 --> 00:06:13,510

stage two propulsion is nominal

69

00:06:19,029 --> 00:06:15,990

t plus eight minutes 15 seconds

70

00:06:21,270 --> 00:06:19,039

altitude 322 kilometers speed 5.3

71

00:06:24,469 --> 00:06:21,280

kilometers per second downrange distance

72

00:06:26,629 --> 00:06:24,479

980 kilometers

73

00:06:28,390 --> 00:06:26,639

still getting excellent video of the

74

00:06:31,350 --> 00:06:28,400

first stage

75

00:06:32,950 --> 00:06:31,360

having formed its entry burn

76

00:06:34,230 --> 00:06:32,960

an excellent video from the air force

77

00:06:49,670 --> 00:06:34,240

new hampshire tracking station on the

78

00:07:02,150 --> 00:06:51,029

vehicle continues to fly down the

79

00:07:02,160 --> 00:07:14,629

terminal guidances begin

80

00:07:14,639 --> 00:07:19,270

t plus nine minutes 15 seconds

81

00:07:19,280 --> 00:07:26,870

and we're in terminal guidance

82

00:07:31,189 --> 00:07:28,790

standby for engine cutoff

83

00:07:42,710 --> 00:07:31,199

fts is safe

84

00:07:48,230 --> 00:07:45,350

falcon 9 second stage engine cut off

85

00:07:48,240 --> 00:08:05,749

spacex 3 is in orbit

86

00:08:05,759 --> 00:08:09,110

dragon deploy confirmed

87

00:08:33,589 --> 00:08:10,710

and dragon has been deployed

88

00:08:33,599 --> 00:08:38,550

10 minutes 35 seconds after launch

89

00:08:42,070 --> 00:08:39,670

dragon

90

00:08:43,589 --> 00:08:42,080

flies through the blackness of space on

91

00:08:45,430 --> 00:08:43,599

its way to a meeting with the

92

00:09:28,070 --> 00:08:45,440

international space station expedition

93

00:09:28,080 --> 00:09:40,949

t plus 11 minutes 29 seconds

94

00:09:44,230 --> 00:09:42,710

at spacex headquarters in hawthorne

95

00:09:45,910 --> 00:09:44,240

california

96

00:09:48,630 --> 00:09:45,920

the crowd has gathered in the mission

97

00:09:51,670 --> 00:09:48,640

control center and outside to watch

98

00:09:53,509 --> 00:09:51,680

the dragon on its way

99

00:10:05,750 --> 00:09:53,519

after a successful launch by the falcon

100

00:10:05,760 --> 00:10:10,710

and the solar arrays are being deployed

101

00:10:14,069 --> 00:10:12,550

generating power to the dragon

102

00:10:15,590 --> 00:10:14,079

spacecraft