

05:59:23.73



1
00:00:13,759 --> 00:00:18,950
t minus 20.

2
00:00:18,960 --> 00:00:23,509
t minus fifteen

3
00:00:27,109 --> 00:00:25,029
minus ten

4
00:00:28,230 --> 00:00:27,119
nine nine eight

5
00:00:29,269 --> 00:00:28,240
seven

6
00:00:30,390 --> 00:00:29,279
six

7
00:00:31,349 --> 00:00:30,400
five

8
00:00:32,389 --> 00:00:31,359
four

9
00:00:33,430 --> 00:00:32,399
three

10
00:00:34,630 --> 00:00:33,440
two

11
00:00:35,910 --> 00:00:34,640
one

12
00:00:37,350 --> 00:00:35,920
engine

13
00:00:40,470 --> 00:00:37,360

ignited

14

00:00:42,549 --> 00:00:40,480

and we have liftoff of spacex falcon 9

15

00:00:45,830 --> 00:00:42,559

rocket and dragon

16

00:00:48,790 --> 00:00:45,840

crs4 is underway a u.s commercial

17

00:00:51,029 --> 00:00:48,800

spacecraft launching from american soil

18

00:00:56,069 --> 00:00:51,039

delivers new science and technology to

19

00:01:16,469 --> 00:00:57,910

first stage for propulsion performing

20

00:01:22,390 --> 00:01:18,950

at one minute 13 seconds after liftoff

21

00:01:23,990 --> 00:01:22,400

the falcon 9 will reach supersonic speed

22

00:01:38,310 --> 00:01:24,000

passing through the area of maximum

23

00:01:48,230 --> 00:01:40,870

250 meters per second downrange distance

24

00:01:48,240 --> 00:01:59,190

vehicle's flying down

25

00:02:04,630 --> 00:02:00,870

vehicles reach maximum paradigmatic

26
00:02:14,150 --> 00:02:06,069
first digital propulsion is still

27
00:02:29,910 --> 00:02:15,990
the power system is still nominal plum

28
00:02:34,830 --> 00:02:31,990
one minute 55 seconds into flight of

29
00:02:40,470 --> 00:02:37,509
and all systems performing well on the

30
00:02:43,110 --> 00:02:40,480
falcons in fact chilling has begun

31
00:02:46,150 --> 00:02:43,120
t plus 2 minutes 10 seconds

32
00:02:48,070 --> 00:02:46,160
altitude 38 kilometers speed 1.16

33
00:02:55,830 --> 00:02:48,080
kilometers per second downrange distance

34
00:03:07,430 --> 00:02:57,990
standing by for first stage cut off main

35
00:03:12,149 --> 00:03:09,589
t plus 2 minus 30 seconds

36
00:03:13,750 --> 00:03:12,159
altitude 61 kilometers speed 1.9

37
00:03:22,869 --> 00:03:13,760
kilometers per second downrange distance

38
00:03:22,879 --> 00:03:27,670

stage separation confirmed

39

00:03:36,869 --> 00:03:29,270

and we've had main engine cutoff and

40

00:03:40,390 --> 00:03:38,789

the second stage single merlin vacuum

41

00:03:42,990 --> 00:03:40,400

engine

42

00:03:45,350 --> 00:03:43,000

altitude 93 kilometers speed

43

00:03:49,430 --> 00:03:45,360

2.12 kilometers per second downrange

44

00:03:58,830 --> 00:03:51,430

this will be about a seven minute burn

45

00:03:58,840 --> 00:04:34,469

orbit fairing jettison

46

00:04:34,479 --> 00:04:49,270

stage two propulsion is nominal

47

00:04:57,350 --> 00:04:50,950

stage 1 and stage 2 power system still

48

00:05:03,510 --> 00:05:01,029

t plus 4 minutes 25 seconds altitude 156

49

00:05:44,469 --> 00:05:03,520

kilometers speed 2.5 kilometers per

50

00:05:44,479 --> 00:05:54,150

acquisition signal new hampshire

51
00:05:58,390 --> 00:05:56,790
five minutes 20 seconds after launch all

52
00:06:01,590 --> 00:05:58,400
falcon systems

53
00:06:03,909 --> 00:06:01,600
continuing to deliver as expected

54
00:06:21,189 --> 00:06:03,919
about four minutes before a second stage

55
00:06:21,199 --> 00:06:54,150
stage two propulsion is still nominal

56
00:07:00,390 --> 00:06:56,629
t plus 6 minutes 20 seconds

57
00:07:02,309 --> 00:07:00,400
altitude 202 kilometers speed 3.7

58
00:07:05,589 --> 00:07:02,319
kilometers per second downrange distance

59
00:07:09,270 --> 00:07:07,189
nominal telemetry on both stage one and

60
00:07:11,029 --> 00:07:09,280
stage two

61
00:07:34,710 --> 00:07:11,039
three minutes remaining in the stage to

62
00:07:34,720 --> 00:08:04,710
stage two prop is still nominal

63
00:08:09,029 --> 00:08:07,350

seven minutes thirty seconds into flight

64

00:08:11,430 --> 00:08:09,039

two plus seven minutes thirty seconds

65

00:08:13,990 --> 00:08:11,440

altitude two hundred ten kilometers

66

00:08:36,630 --> 00:08:14,000

speed 4.7 kilometers per second

67

00:08:36,640 --> 00:09:20,389

90 seconds remain in powered flight

68

00:09:24,070 --> 00:09:22,710

eight minutes 45 seconds into the flight

69

00:09:29,269 --> 00:09:24,080

of

70

00:09:35,190 --> 00:09:31,110

standing by for second stage engine

71

00:09:37,030 --> 00:09:35,200

cutoff in 34 fts has been saved

72

00:09:41,910 --> 00:09:37,040

t plus nine minutes

73

00:09:43,910 --> 00:09:41,920

altitude 207 kilometers speed 6.7

74

00:09:50,630 --> 00:09:43,920

kilometers per second downrange distance

75

00:09:50,640 --> 00:10:03,990

vehicles and terminal guidance

76

00:10:17,590 --> 00:10:08,069

engine cutoff

77

00:10:23,790 --> 00:10:21,509

overall altitude at insertion 359 by 199

78

00:10:29,670 --> 00:10:23,800

kilometers inclined

79

00:10:29,680 --> 00:10:49,190

newfoundland acquisition of signal

80

00:10:49,200 --> 00:10:52,790

dragon separation confirmed

81

00:10:57,509 --> 00:10:55,829

and dragon is flying free

82

00:11:00,949 --> 00:10:57,519

on its way to the international space

83

00:11:00,959 --> 00:11:06,870

due date tuesday 704 a.m eastern time

84

00:12:35,590 --> 00:11:08,630

we'll be standing by for solar array

85

00:12:35,600 --> 00:13:08,389

12 minutes after liftoff

86

00:13:42,790 --> 00:13:10,069

now we're watching the beginnings of

87

00:14:11,110 --> 00:13:44,310

lost signal new hampshire tracking

88

00:14:14,550 --> 00:14:13,030

continue to receive excellent data from