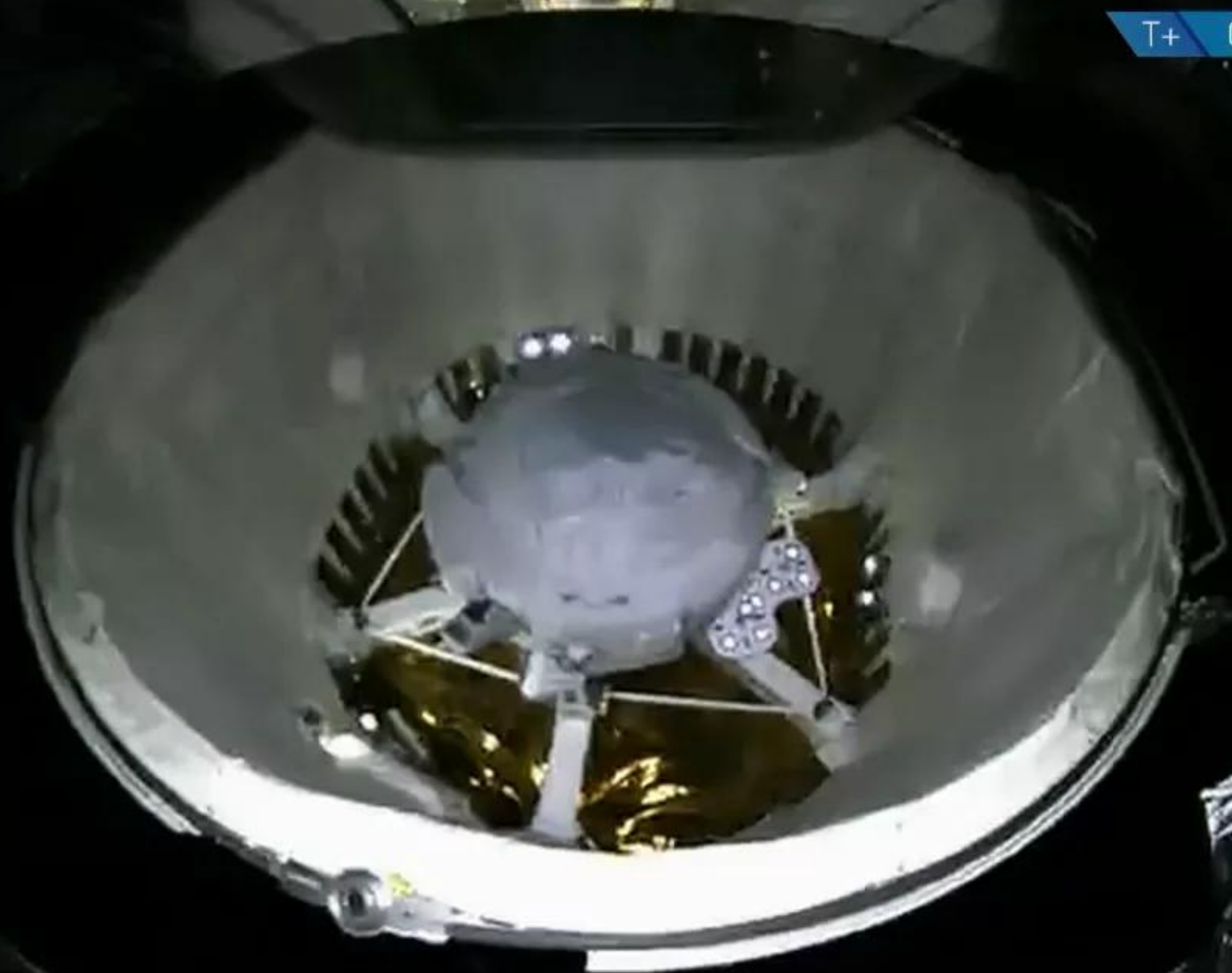


T+ 00:09:43



LAUNCH: CRS-9



SPACEX

1
00:00:04,550 --> 00:00:03,590
t-minus ten nine nine eight

2
00:00:05,670 --> 00:00:04,560
seven

3
00:00:06,710 --> 00:00:05,680
six

4
00:00:07,829 --> 00:00:06,720
five

5
00:00:09,110 --> 00:00:07,839
four

6
00:00:10,150 --> 00:00:09,120
three

7
00:00:11,350 --> 00:00:10,160
two

8
00:00:13,990 --> 00:00:11,360
one

9
00:00:16,710 --> 00:00:14,000
main engines up and running and liftoff

10
00:00:18,630 --> 00:00:16,720
of the falcon 9 to the space station

11
00:00:21,349 --> 00:00:18,640
preparing for the revival of commercial

12
00:00:23,910 --> 00:00:21,359
crews while continuing experiments for

13
00:00:25,509 --> 00:00:23,920

long-term living in space

14

00:00:52,069 --> 00:00:25,519

chapter 9 having

15

00:00:52,079 --> 00:01:09,510

avionics

16

00:01:25,190 --> 00:01:20,630

going

17

00:01:40,149 --> 00:01:25,200

maximum dynamic pressure vehicles

18

00:01:40,159 --> 00:01:49,990

stage one propulsion's nominal

19

00:02:02,950 --> 00:01:52,149

injection has begun

20

00:02:14,790 --> 00:02:05,030

flight telemetry data looks good vehicle

21

00:02:34,070 --> 00:02:16,869

make an engine cut off in about 15

22

00:02:34,080 --> 00:02:41,509

and we've got it main engine cut off

23

00:02:51,270 --> 00:02:43,670

we have stage separation stage one has

24

00:02:51,280 --> 00:02:57,589

stage one boost back is starting

25

00:03:04,710 --> 00:02:59,430

first stage

26
00:03:07,270 --> 00:03:04,720
return to landing on complex 13 at cape

27
00:03:07,280 --> 00:03:43,110
stage two propulsion looks good

28
00:03:43,120 --> 00:04:11,910
stage one boost back is shut down

29
00:04:11,920 --> 00:04:15,990
stage two propulsion is nominal

30
00:04:16,000 --> 00:04:21,509
permeate acquisition of signal

31
00:04:21,519 --> 00:04:43,510
avionics reports power isometry are good

32
00:04:43,520 --> 00:05:15,830
good data from bermuda

33
00:05:45,189 --> 00:05:17,909
actual liftoff time was

34
00:05:45,199 --> 00:05:50,870
we have aos at new hampshire

35
00:05:50,880 --> 00:05:57,189
stage 2 propulsion still normal

36
00:06:00,870 --> 00:05:59,270
second stage looks good new hampshire

37
00:06:11,189 --> 00:06:00,880
tracking station

38
00:06:11,199 --> 00:06:25,830

avionic systems are nominal

39

00:06:40,390 --> 00:06:27,990

first stage re-entry burn coming up in

40

00:06:40,400 --> 00:07:03,830

stage one entry burn has started

41

00:07:20,070 --> 00:07:07,430

stage one entry bearing is shut down

42

00:07:30,550 --> 00:07:22,230

still a good flight going for dragon to

43

00:07:30,560 --> 00:07:37,670

stage one is transonic

44

00:07:37,680 --> 00:07:59,909

first stage on the way back

45

00:07:59,919 --> 00:08:22,309

stage one landing burn has started

46

00:08:22,319 --> 00:08:31,830

landing legs have deployed

47

00:08:36,310 --> 00:08:34,149

lz1 falcon 9 has landed landing

48

00:08:46,710 --> 00:08:36,320

operators moving to procedure 11.100 on

49

00:08:50,949 --> 00:08:48,870

mission control for spacex in hawthorne

50

00:08:53,110 --> 00:08:50,959

california

51
00:08:54,630 --> 00:08:53,120
staff celebrating

52
00:08:56,870 --> 00:08:54,640
what appears to have been a successful

53
00:09:16,310 --> 00:08:56,880
landing at complex 13 here at cape

54
00:09:16,320 --> 00:09:21,350
first stage sitting on the pad

55
00:09:21,360 --> 00:09:36,310
and we have ziko

56
00:09:36,320 --> 00:09:56,310
preparing for separation of the dragon

57
00:10:13,350 --> 00:10:00,389
and we have it dragon has separated

58
00:10:25,110 --> 00:10:15,910
good launch good landing dragon on its

59
00:11:33,670 --> 00:10:27,269
dragon should begin to deploy solar

60
00:12:11,509 --> 00:11:35,990
waiting for confirmation that the solar

61
00:12:11,519 --> 00:12:25,670
we're now 12 minutes into the flight

62
00:12:25,680 --> 00:12:40,629
and there go the solar arrays

63
00:13:35,509 --> 00:12:43,110

launch plus 12 minutes 30 seconds

64

00:13:35,519 --> 00:14:02,069

solar array deployment looks good

65

00:14:19,110 --> 00:14:03,990

data coming through the tracking data

66

00:14:19,120 --> 00:14:56,790

and we have los at new hampshire

67

00:15:00,949 --> 00:14:58,790

and we're looking now at the mission

68

00:15:04,470 --> 00:15:00,959

control center at the johnson space

69

00:15:06,389 --> 00:15:04,480

center in houston where they have been

70

00:15:08,470 --> 00:15:06,399

watching with great interest uh the

71

00:15:11,110 --> 00:15:08,480

success of

72

00:15:13,030 --> 00:15:11,120

this launch and of the dragon spacecraft

73

00:15:14,710 --> 00:15:13,040

because that means we have