1
00:00:00,840 --> 00:00:02,590
SpaceX: 10,
9,

2
00:00:02,590 --> 00:00:03,590
8…

3
00:00:03,590 --> 00:00:05,440
NASA Launch Commentator Josh Finch: Seven,
six,

4
00:00:05,600 --> 00:00:06,780
five,
four,

5
00:00:07,360 --> 00:00:09,480
three,
two,

6
00:00:09,680 --> 00:00:10,860
one,
zero.

7
00:00:10,860 --> 00:00:17,330
And liftoff of the Falcon 9 rocket and a Dragon
spacecraft packed with science and supplies

8
00:00:17,330 --> 00:00:22,369
for the International Space Station, humanity’s
home in low-Earth orbit.

9
00:00:22,369 --> 00:00:23,600
The Falcon 9 has cleared the tower.

10
00:00:26,680 --> 00:00:29,780
SpaceX ascent commentary is performed by several
people.

11
00:00:29,780 --> 00:00:32,700

Propulsion engineer calls out propulsion events.

12
00:00:32,700 --> 00:00:35,360
Avionics engineer calls out avionics health
and Dragon separation.

13
00:00:35,360 --> 00:00:41,719
The range coordinator calls Air Force satellite
control network acquisition and loss of signal.

14
00:00:41,720 --> 00:00:46,120
And the ground station specialist calls out
the SpaceX antenna acquisition and loss of

15
00:00:46,120 --> 00:00:47,060
signal.

16
00:00:53,220 --> 00:00:56,960
We are 40 seconds into the flight of the Falcon
9.

17
00:00:56,969 --> 00:01:02,190
One minute, five seconds after liftoff, Falcon
9 will reach transonic speed.

18
00:01:02,190 --> 00:01:06,299
The vehicle will pass through an area of maximum
aerodynamic pressure called max Q.

19
00:01:06,299 --> 00:01:11,499
At one minute, 18 seconds after liftoff, this
is the point where mechanical stress on the

20
00:01:11,499 --> 00:01:16,179
rocket reaches its peak because of the rocket's
velocity and resistance created by Earth's

21
00:01:16,179 --> 00:01:17,179
atmosphere.

22
00:01:17,180 --> 00:01:20,060
And the vehicle is supersonic.

23
00:01:27,960 --> 00:01:30,860
Ascent commentator: Vehicle is experiencing
maximum dynamic pressure.

24
00:01:30,860 --> 00:01:33,400
Finch: And confirmation of max Q.

25
00:01:43,680 --> 00:01:45,360
One minute, 30 seconds into flight.

26
00:02:00,000 --> 00:02:05,680
And the second-stage engine chill has begun.

27
00:02:05,719 --> 00:02:09,469
Around two minutes, 35 seconds into flight,
the nine Merlin engines will sequentially

28
00:02:09,469 --> 00:02:10,500
shut down.