



1
00:00:15,950 --> 00:00:12,709
t-minus 10 9 8 7 6 5 4 3 2 1 main engine

2
00:00:19,550 --> 00:00:15,960
ignition and liftoff of the Atlas 5

3
00:00:31,689 --> 00:00:19,560
rocket with lol crossed America's first

4
00:00:31,699 --> 00:00:38,170
and we have a quadrant with good

5
00:00:38,180 --> 00:00:47,330
rd-180 something very stable very good

6
00:00:51,470 --> 00:00:49,610
Plus battery voltages are stable think

7
00:01:15,390 --> 00:00:51,480
pressures look good already 180s

8
00:01:15,400 --> 00:01:36,020
this

9
00:01:36,030 --> 00:01:40,410
ah Kwon

10
00:01:46,140 --> 00:01:43,800
vehicles accelerate smoothly and 170s

11
00:01:54,870 --> 00:01:46,150
as we pass through maximum dynamic

12
00:01:57,880 --> 00:01:57,310
and the boosters throttled down right on

13
00:02:00,580 --> 00:01:57,890

schedule

14

00:02:03,270 --> 00:02:00,590

engine response looks difficult speeds

15

00:02:05,980 --> 00:02:03,280

are stable objective pressures look good

16

00:02:08,559 --> 00:02:05,990

burn altitude is eleven point three

17

00:02:13,270 --> 00:02:08,569

nautical miles downrange position is

18

00:02:21,970 --> 00:02:13,280

nine point nine miles velocity is 2400

19

00:02:23,610 --> 00:02:21,980

miles per hour and we've begun flying

20

00:02:25,509 --> 00:02:23,620

the alpha bias during phase of flight

21

00:02:26,400 --> 00:02:25,519

vehicle module rates continue to look

22

00:02:28,750 --> 00:02:26,410

good

23

00:02:34,539 --> 00:02:28,760

add revolted is our stable time

24

00:02:37,210 --> 00:02:34,549

pressures are good booster has enabled

25

00:02:43,720 --> 00:02:37,220

closed loop scary call body rates

26
00:02:45,550 --> 00:02:43,730
continue to look good booster engine

27
00:02:55,570 --> 00:02:45,560
operation continues to look very good as

28
00:03:01,750 --> 00:02:58,180
we heard the RCO spiral valve that

29
00:03:10,520 --> 00:03:01,760
system has pressurized according to its

30
00:03:14,840 --> 00:03:13,190
and Lucifer has begun its hundred and

31
00:03:20,390 --> 00:03:14,850
eighty degree roll for the L oral

32
00:03:43,920 --> 00:03:20,400
thermal constraint the car engine

33
00:03:51,100 --> 00:03:46,420
vehicles still operating well as we

34
00:03:52,569 --> 00:03:51,110
begin our fine teen throttle segment the

35
00:04:04,420 --> 00:03:52,579
space cooldown is underway pump

36
00:04:10,960 --> 00:04:04,430
temperatures look good they are 4.6 P

37
00:04:18,250 --> 00:04:10,970
throttle segment parade me go please

38
00:04:23,080 --> 00:04:18,260

space cooldowns complete and we have eco

39

00:04:26,020 --> 00:04:23,090

and shutdown what's good we have retros

40

00:04:27,610 --> 00:04:26,030

and stage separation looks clean they

41

00:04:33,360 --> 00:04:27,620

lock some fuel priests are chained to