



1
00:00:12,400 --> 00:00:16,960

We're here on the Crawlerway at NASA's Kennedy Space Center. I'm Joshua Santora and I'll be

2
00:00:16,960 --> 00:00:21,600

your tour guide today taking you behind the scenes and up close to the behemoth that uses this unique

3
00:00:21,600 --> 00:00:26,800

one-of-a-kind roadway to travel from the vehicle assembly building about four miles out to Launch

4
00:00:26,800 --> 00:00:32,320

Complex 39b. This roadway is specially designed with a couple layers of fill, crushed rock and

5
00:00:32,320 --> 00:00:37,280

then on top you see Tennessee river rock. It had to be specially designed because of how

6
00:00:37,280 --> 00:00:42,720

massive the crawler is, which is an essential part for the Artemis program. Artemis has three

7
00:00:42,720 --> 00:00:48,880

major elements the Space Launch System or SLS, our heavy lift rocket. The Orion crew capsule

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00:00:48,880 --> 00:00:53,920

and Exploration Ground Systems - they're responsible for all the infrastructure to actually

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00:00:53,920 --> 00:00:58,240

launch. Be sure to enjoy the view and look around at each of our stops today. Let's crawl.

\h

10
00:00:58,960 --> 00:01:02,960

You're watching a timelapse video of our mobile launcher rolling out of the iconic

11
00:01:02,960 --> 00:01:06,400
vehicle assemble building atop\h
the behemoth crawler transporter.\h\h

12
00:01:07,680 --> 00:01:11,360
Originally used to move the Saturn V\h
rocket from the vehicle assembly building,\h\h

13
00:01:11,360 --> 00:01:18,000
or VAB, to the launch pad, the crawlers have since\h
been used to do the same for the space shuttle\h\h

14
00:01:18,000 --> 00:01:21,280
and they recently underwent extensive\h
maintenance to ensure they re ready\h\h

15
00:01:21,280 --> 00:01:27,120
for the next chapter in human spaceflight.
At a blistering top speed of 1 mile per hour,\h\h

16
00:01:27,120 --> 00:01:33,760
these workhorses have each put in over 3,400\h
miles in no more than 4-mile increments.\h\h

17
00:01:33,760 --> 00:01:40,000
And being this massive, they only gets about 32 ft\h
per gallon. But don t worry, they're hybrids.
\h

18
00:01:40,000 --> 00:01:43,760
You can see as it rolls by the driver\h
station just above that first set of tracks.\h\h

19
00:01:45,360 --> 00:01:48,400
We'll actually stop in to check out the\h
view the driver gets in a few minutes.
\h

20
00:01:50,160 --> 00:01:56,080

Right now, you're seeing this at about seven
times normal speed. And this is regular speed.

21
00:01:57,040 --> 00:02:02,480
There's a reason we call it the crawler.
To give you a little perspective on the weight,

22
00:02:03,040 --> 00:02:08,320
you see what we call shoes that make up the tracks
at each corner. Each of the 8 tracks has 57 shoes,

23
00:02:08,320 --> 00:02:13,200
and each shoe weighs a ton. Literally
one ton. I'll let you do the math on how

24
00:02:13,200 --> 00:02:16,720
much weight for just the shoes.
You're about to get a one-of-a-kind,

25
00:02:16,720 --> 00:02:22,240
never before seen immersive view as the Crawler
will roll right over us. Watch your head.
h

26
00:02:33,120 --> 00:02:37,840
Since 1965, we've relied on a nearly
identical pair of these crawlers,

27
00:02:37,840 --> 00:02:43,440
the largest tracked vehicles in the world.
Weighing in at over 6 million pounds each,

28
00:02:43,440 --> 00:02:47,520
these monsters are able to haul the more
than 11-million-pound mobile launcher

29
00:02:47,520 --> 00:02:53,840
that's being carried as we speak, along with the
5.75-million-pound Space Launch System rocket

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00:02:53,840 --> 00:03:03,120
and Orion spacecraft from the VAB to the pad.
We're inside one of two driver seats for this\h\h

31
00:03:03,120 --> 00:03:07,760
crawler. You can see the actual driving is\h
pretty simple. A small wheel for direction\h\h

32
00:03:07,760 --> 00:03:13,520
and a knob for speed. We're currently parked\h
outside launch complex 39B where the crawler\h\h

33
00:03:13,520 --> 00:03:18,000
has already set the mobile launcher\h
down in place ahead on the mound.
\h

34
00:03:18,000 --> 00:03:22,640
Because of its size, we never turn the\h
crawler around. We move forward to the pad,\h\h

35
00:03:22,640 --> 00:03:27,280
then move the driver to the other driver\h
station on the opposite corner driving backward\h\h

36
00:03:27,280 --> 00:03:32,320
toward the VAB. This thing is so large, you can\h
fit a professional baseball diamond on top.
\h

37
00:03:35,440 --> 00:03:40,240
We hope you'll continue to follow our progress\h
as we work towards the first woman and next man\h\h

38
00:03:40,240 --> 00:03:45,200
to walk on the surface of the moon. From NASA's\h
Kennedy Space Center and for Exploration Ground\h\h

39
00:03:45,200 --> 00:03:50,400
Systems program, that's all for today. Remember,\h
we build, launch and recover for the next\h\h

