



1  
00:00:18,320 --> 00:00:15,820  
to perform our nation's most ambitious

2  
00:00:20,929 --> 00:00:18,330  
exploration of this decade a manned

3  
00:00:23,600 --> 00:00:20,939  
exploration of the moon the Saturn 5

4  
00:00:25,730 --> 00:00:23,610  
space vehicle is under development by

5  
00:00:29,269 --> 00:00:25,740  
NASA's Marshall Space Flight Center and

6  
00:00:32,569 --> 00:00:29,279  
the country's industrial might at

7  
00:00:35,870 --> 00:00:32,579  
Huntsville Alabama the Saturn 5 booster

8  
00:00:37,610 --> 00:00:35,880  
is undergoing captive firings to assure

9  
00:00:40,310 --> 00:00:37,620  
the proper flight performance of these

10  
00:00:43,910 --> 00:00:40,320  
enormous Rockets exacting tests are

11  
00:00:48,049 --> 00:00:43,920  
conducted long before flight time this

12  
00:00:50,810 --> 00:00:48,059  
stage alone is 140 feet long and 33 feet

13  
00:00:54,919 --> 00:00:50,820

in diameter the full Saturn 5 vehicle

14

00:00:57,650 --> 00:00:54,929

will stand 364 feet tall higher than the

15

00:01:00,319 --> 00:00:57,660

Statue of Liberty this first stage

16

00:01:03,979 --> 00:01:00,329

fueled will weigh almost 5 million

17

00:01:06,920 --> 00:01:03,989

pounds the stand where the hot firings

18

00:01:09,230 --> 00:01:06,930

are conducted is anchored in bedrock in

19

00:01:11,660 --> 00:01:09,240

the ground to withstand the powerful

20

00:01:16,880 --> 00:01:11,670

thrust of 7 and 1/2 million pounds

21

00:01:19,840 --> 00:01:16,890

during firing here the 140 ton unfilled

22

00:01:23,719 --> 00:01:19,850

stage arrives at the static test site

23

00:01:27,440 --> 00:01:23,729

the five huge f1 engines have not yet

24

00:01:30,200 --> 00:01:27,450

been attached to erect this stage the

25

00:01:32,539 --> 00:01:30,210

world's largest and most powerful the

26  
00:01:36,830 --> 00:01:32,549  
stand has two cranes which will place

27  
00:01:39,590 --> 00:01:36,840  
the vehicle in its firing position the

28  
00:01:42,760 --> 00:01:39,600  
delicate job begins lifting of the stage

29  
00:01:44,719 --> 00:01:42,770  
into the test and when in place

30  
00:01:47,719 --> 00:01:44,729  
instrumentation is connected to all

31  
00:01:50,569 --> 00:01:47,729  
parts of the booster to record results

32  
00:01:52,730 --> 00:01:50,579  
of the test over 1200 channels of

33  
00:01:54,429 --> 00:01:52,740  
measurements will be transmitted to the

34  
00:01:56,980 --> 00:01:54,439  
recording instruments in the blockhouse

35  
00:01:59,209 --> 00:01:56,990  
located a safe distance from the stand

36  
00:02:01,310 --> 00:01:59,219  
complete control of the test is

37  
00:02:04,849 --> 00:02:01,320  
maintained by personnel in the

38  
00:02:06,999 --> 00:02:04,859

blockhouse the propellant tanks will be

39

00:02:10,070 --> 00:02:07,009

filled with four million four hundred

40

00:02:13,130 --> 00:02:10,080

thousand pounds of kerosene and liquid

41

00:02:16,730 --> 00:02:13,140

oxygen the life of this stage in flight

42

00:02:18,920 --> 00:02:16,740

will be two and 1/2 minutes after it

43

00:02:21,800 --> 00:02:18,930

boosts the upper stages and the three

44

00:02:24,180 --> 00:02:21,810

astronauts in the Apollo spacecraft to

45

00:02:26,880 --> 00:02:24,190

five thousand miles an hour

46

00:02:29,790 --> 00:02:26,890

at an altitude of 40 miles the booster

47

00:02:31,680 --> 00:02:29,800

will be separated and discarded the

48

00:02:33,810 --> 00:02:31,690

upper stages then take over the mission

49

00:02:39,000 --> 00:02:33,820

of sending the astronauts to the moon

50

00:02:40,820 --> 00:02:39,010

and to outer space the five huge engines

51  
00:02:43,740 --> 00:02:40,830  
are next installed and checked out

52  
00:02:45,960 --> 00:02:43,750  
during the test firing the outer four

53  
00:02:48,020 --> 00:02:45,970  
engines are gimballed to test their

54  
00:02:52,350 --> 00:02:48,030  
capability for guiding the Saturn 5

55  
00:02:54,660 --> 00:02:52,360  
during an actual flight the test time

56  
00:02:57,620 --> 00:02:54,670  
has arrived water is run through the