



1
00:01:29,410 --> 00:01:25,370
of the Senate expensive yet here has

2
00:01:33,980 --> 00:01:29,420
them to do just sex 1pc safe

3
00:01:36,200 --> 00:01:33,990
acceleration measurement sense and the

4
00:01:39,740 --> 00:01:36,210
other is the orbital acceleration

5
00:01:42,280 --> 00:01:39,750
research experiments or away both

6
00:01:46,310 --> 00:01:42,290
experiments make use of insulin scrolls

7
00:01:50,780 --> 00:01:46,320
accelerometers i will show you what they

8
00:01:53,270 --> 00:01:50,790
mean for maxilla this slinky with the

9
00:01:56,300 --> 00:01:53,280
weight in the middle is a simple example

10
00:02:04,610 --> 00:01:56,310
for the next seller honestly watch what

11
00:02:11,930 --> 00:02:07,790
for just a moment they wait in the

12
00:02:14,180 --> 00:02:11,940
middle resist the move our eyes serve as

13
00:02:17,300 --> 00:02:14,190

the defective in this system in this

14

00:02:20,630 --> 00:02:17,310

demonstration we see the way resist the

15

00:02:22,490 --> 00:02:20,640

movement this indicates was that there

16

00:02:24,290 --> 00:02:22,500

is an acceleration that except in

17

00:02:27,920 --> 00:02:24,300

acceleration is been applied to this

18

00:02:30,890 --> 00:02:27,930

system by careful observation we can

19

00:04:07,800 --> 00:02:30,900

make the magic of this acceleration with

20

00:04:14,520 --> 00:04:11,370

two tanks six and seven heaters alpha

21

00:04:26,129 --> 00:04:14,530

and Bravo all four of those h two

22

00:04:29,790 --> 00:04:26,139

switches to also a firm that's complete

23

00:04:38,240 --> 00:04:29,800

and now we'll get the o2 and that's tank

24

00:04:45,530 --> 00:04:42,469

only two auto one six and seven

25

00:04:55,800 --> 00:04:45,540

affirmative we're a minute to the z OE

26

00:04:58,230 --> 00:04:55,810

will be a OS at 1616 we have heard that

27

00:05:01,080 --> 00:04:58,240

you've been conducting experiments on

28

00:05:03,629 --> 00:05:01,090

combustion in space and have seen flames

29

00:05:14,360 --> 00:05:03,639

unusual shape could you tell us what you

30

00:05:20,550 --> 00:05:17,520

here to the absence of connection that a

31

00:05:22,800 --> 00:05:20,560

slave speared very different spaces on

32

00:05:25,020 --> 00:05:22,810

the ground and they're all of these

33

00:05:27,650 --> 00:05:25,030

though that we have to walk back moments

34

00:05:32,040 --> 00:05:27,660

where the flames are produced or

35

00:05:35,550 --> 00:05:32,050

capacities produced under flow of air is

36

00:05:38,310 --> 00:05:35,560

a no-go of air tractor slam brother and

37

00:05:40,710 --> 00:05:38,320

he died myself because a snow the snow

38

00:05:42,900 --> 00:05:40,720

constant flow of oxygen to support the

39

00:05:44,700 --> 00:05:42,910

compulsion so all the Commission we did

40

00:05:46,470 --> 00:05:44,710

was at don't know and it is greatest

41

00:05:48,210 --> 00:05:46,480

thing to see the spreading of the flame

42

00:05:52,260 --> 00:05:48,220

in wages they see the absence of

43

00:05:54,570 --> 00:05:52,270

connection in the presence and this will

44

00:05:57,210 --> 00:05:54,580

give us a lot of information about the

45

00:05:59,400 --> 00:05:57,220

design spaces of the future for

46

00:06:02,850 --> 00:05:59,410

spacecraft particular for mantelpiece

47

00:06:04,800 --> 00:06:02,860

growth in order to prevent dangerous

48

00:06:09,920 --> 00:06:04,810

compassion of elements of the spacecraft

49

00:06:13,530 --> 00:06:09,930

case of fire if I may not just a second

50

00:06:15,060 --> 00:06:13,540

as we are talking about other experiment

51
00:06:16,620 --> 00:06:15,070
that we have here on board apart from

52
00:06:19,140 --> 00:06:16,630
the telethon tonight system and the

53
00:06:21,930 --> 00:06:19,150
letter states microgravity pilot I would

54
00:06:23,730 --> 00:06:21,940
like Franklin the charge here which is

55
00:06:25,710 --> 00:06:23,740
the payload commander to talk about a

56
00:06:34,320 --> 00:06:25,720
novella be very important experimental

57
00:06:36,360 --> 00:06:34,330
here on board and concerns medicine yeah

58
00:06:38,670 --> 00:06:36,370
whether be one of the experiments that

59
00:06:40,469 --> 00:06:38,680
we have in the crew cabin is a very

60
00:06:44,130 --> 00:06:40,479
small contributions from the countries

61
00:06:46,110 --> 00:06:44,140
of Latin America to designate the

62
00:06:50,610 --> 00:06:46,120
effects of crystallization of certain

63
00:06:53,460 --> 00:06:50,620

days with an aim to combat a very

64

00:06:56,340 --> 00:06:53,470

serious disease in the central and south

65

00:06:59,670 --> 00:06:56,350

america called chagas disease and we

66

00:07:02,400 --> 00:06:59,680

carry with us certain proteins which we

67

00:07:04,020 --> 00:07:02,410

are crystallizing right now over the

68

00:07:06,450 --> 00:07:04,030

course of our mission and we will bring

69

00:07:09,750 --> 00:07:06,460

those crystals back to earth to be

70

00:07:11,610 --> 00:07:09,760

analyzed and studies so that they can

71

00:07:20,290 --> 00:07:11,620

actually determine the structure of this

72

00:07:25,580 --> 00:07:23,239

so gain lots of cerebral activity

73

00:07:27,920 --> 00:07:25,590

restored of a long flight we can't carry

74

00:07:32,450 --> 00:07:27,930

enough Humphrey out for the whole flight

75

00:07:34,399 --> 00:07:32,460

so we have to reload film from small

76

00:07:37,459 --> 00:07:34,409

cassettes into the magazine which

77

00:07:40,820 --> 00:07:37,469

involves working inside a dark back and

78

00:07:43,070 --> 00:07:40,830

that's what I'm doing here and a couple

79

00:07:44,450 --> 00:07:43,080

hours we can reload enough film that

80

00:07:50,959 --> 00:07:44,460

should hopefully keep us going for the

81

00:07:53,240 --> 00:07:50,969

rest of the bishop all we were having a

82

00:07:56,209 --> 00:07:53,250

little trouble with this cable here so

83

00:07:58,939 --> 00:07:56,219

I'm contemplating what's the best way to

84

00:08:02,269 --> 00:07:58,949

go about six of us cable us so we can

85

00:08:05,719 --> 00:08:02,279

now use our camcorder interface to get

86

00:08:07,790 --> 00:08:05,729

you better pictures coming on down the

87

00:08:14,329 --> 00:08:07,800

ground set be ingenious and I'm thinking

88

00:08:16,850 --> 00:08:14,339

about it today for the irritation is

89

00:08:21,769 --> 00:08:16,860

that we do of course commuters love to

90

00:08:23,929 --> 00:08:21,779

turn on all the primary jet amenity

91

00:08:28,269 --> 00:08:23,939

opportunity you give us to Amador and

92

00:08:28,279 --> 00:08:37,969

if it's manual

93

00:08:44,509 --> 00:08:42,290

okay his reading tests and they were

94

00:08:47,449 --> 00:08:44,519

working at these for the last four

95

00:08:51,769 --> 00:08:47,459

samples and jackie was helping it'll

96

00:08:53,180 --> 00:08:51,779

better with the procedures better when i

97

00:08:55,819 --> 00:08:53,190

was sitting at the updating the

98

00:09:04,430 --> 00:08:55,829

procedure of on down the days it'll turn

99

00:09:06,139 --> 00:09:04,440

as i said that the wheeler seal people

100

00:09:09,290 --> 00:09:06,149

are not explain it apparently these

101
00:09:11,090 --> 00:09:09,300
three people because you get a house are

102
00:09:14,000 --> 00:09:11,100
one person pushing the bus from the

103
00:09:16,550 --> 00:09:14,010
camera is setting the 80 kilometers of

104
00:09:19,430 --> 00:09:16,560
the flames fire just the right moment to

105
00:09:27,550 --> 00:09:19,440
us when I was get to do there to help by

106
00:09:33,500 --> 00:09:31,310
normal sample 50 so looking for things

107
00:09:34,910 --> 00:09:33,510
other things to burn him exposes my date

108
00:09:41,689 --> 00:09:34,920
applies if you don't use or something

109
00:09:46,189 --> 00:09:41,699
like that we have a lots of messages

110
00:09:48,800 --> 00:09:46,199
coming up going down from between the

111
00:09:52,160 --> 00:09:48,810
orbiter and then the ground we have a

112
00:09:56,840 --> 00:09:52,170
que ça which is a computer and work yet

113
00:10:01,699 --> 00:09:56,850

and after checking the mail and telling

114

00:10:06,620 --> 00:10:01,709

Scott that it forgot disc at so we got

115

00:10:08,809 --> 00:10:06,630

your wires the person that are there and

116

00:10:20,500 --> 00:10:08,819

one of my all-time favorite here's the

117

00:10:27,730 --> 00:10:22,330

now we saying well he's at home this is

118

00:10:29,920 --> 00:10:27,740

a great little job so thanks again to

119

00:10:32,350 --> 00:10:29,930

all the folks give us really great tools

120

00:10:34,330 --> 00:10:32,360

and fix this right up and it's gonna fit

121

00:10:37,780 --> 00:10:34,340

what a hassle catch our videos tells you

122

00:10:40,000 --> 00:10:37,790

guys okay they've been listening and

123

00:10:41,830 --> 00:10:40,010

watching this if that thing is missing

124

00:10:49,720 --> 00:10:41,840

the next inventory they will know where

125

00:10:52,270 --> 00:10:49,730

to find it give that story I thought

126

00:10:59,470 --> 00:10:52,280

maybe for such a good job they might

127

00:13:30,820 --> 00:10:59,480

give me what is a present they have the

128

00:13:43,370 --> 00:13:41,150

Who am I using go ahead story she is

129

00:13:52,040 --> 00:13:43,380

gonna kill me my job to know it's during

130

00:13:59,810 --> 00:13:52,050

his birthday she's 35 today really yes

131

00:14:05,300 --> 00:13:59,820

sir I've got a not happy birthday thank

132

00:14:12,110 --> 00:14:05,310

you very much Rick to you uh hot so

133

00:14:14,150 --> 00:14:12,120

Columbia go ahead look what they would

134

00:14:17,540 --> 00:14:14,160

like to wish to Rita a very happy

135

00:14:27,200 --> 00:14:17,550

birthday I can't think of a better bunch

136

00:14:33,020 --> 00:14:27,210

to spend it with come on me could you

137

00:14:54,630 --> 00:14:33,030

put a candle in the glove box okay we

138

00:15:07,730 --> 00:14:57,280

and columbia huntsville I see that and

139

00:15:23,840 --> 00:15:17,180

if it was not good enough yeah we're

140

00:15:34,970 --> 00:15:23,850

getting great pictures ok marina

141

00:15:36,470 --> 00:15:34,980

Columbia go ahead well I just wanted to

142

00:15:40,490 --> 00:15:36,480

wish you a happy birthday from the

143

00:15:51,800 --> 00:15:40,500

entire crew of Columbia thank you very

144

00:15:53,180 --> 00:15:51,810

much that's much appreciated well there

145

00:15:54,800 --> 00:15:53,190

may be other birthdays you had better