



1
00:00:05,289 --> 00:00:03,530
hello I'm Sonny Williams I'm up here on

2
00:00:07,220 --> 00:00:05,299
the International Space Station

3
00:00:09,709 --> 00:00:07,230
then we're going into the Russian

4
00:00:16,060 --> 00:00:09,719
segment be ready you don't need a

5
00:00:16,070 --> 00:00:20,600
[Music]

6
00:00:25,460 --> 00:00:23,080
it goes a lot farther back than this

7
00:00:28,040 --> 00:00:25,470
we'll go take a trip and say hello to

8
00:00:29,510 --> 00:00:28,050
the boys down there in just a minute but

9
00:00:30,890 --> 00:00:29,520
let's do that first actually and then

10
00:00:36,680 --> 00:00:30,900
we'll go down to the Soyuz at the very

11
00:00:44,119 --> 00:00:36,690
end this is your Guinea doing a little

12
00:00:47,090 --> 00:00:44,129
tour this is the FGB

13
00:00:48,530 --> 00:00:47,100

and what's cool about this module it is

14

00:00:51,140 --> 00:00:48,540

actually the very first piece of the

15

00:00:53,300 --> 00:00:51,150

space station that came up in 1998 the

16

00:00:56,990 --> 00:00:53,310

space station has been around for about

17

00:01:00,140 --> 00:00:57,000

now man for 12 years but it's been up in

18

00:01:02,720 --> 00:01:00,150

space for about 14 years and this was

19

00:01:05,570 --> 00:01:02,730

the very first it is like the Russians

20

00:01:14,310 --> 00:01:05,580

pmm it has a lot of storage as you can

21

00:01:14,320 --> 00:01:19,399

[Music]

22

00:01:27,109 --> 00:01:22,720

Mazda scream I am

23

00:01:32,120 --> 00:01:29,870

so here we are in the heart of the space

24

00:01:35,510 --> 00:01:32,130

station really this is the service mall

25

00:01:37,580 --> 00:01:35,520

module this is the central post in case

26
00:01:38,840 --> 00:01:37,590
we had any problems I know when a couple

27
00:01:40,639 --> 00:01:38,850
of the questions are about what type of

28
00:01:41,630 --> 00:01:40,649
things do you have to worry about and

29
00:01:44,270 --> 00:01:41,640
some of the things we have to worry

30
00:01:46,100 --> 00:01:44,280
about in space are fire if we had a fire

31
00:01:47,690 --> 00:01:46,110
if we had a depressurization like we

32
00:01:49,940 --> 00:01:47,700
were hit by a micrometeorite and they

33
00:01:52,760 --> 00:01:49,950
made a hole or if we had some type of

34
00:01:54,710 --> 00:01:52,770
toxic atmosphere we use ammonia for our

35
00:01:57,440 --> 00:01:54,720
radiator so there is a possibility that

36
00:01:59,960 --> 00:01:57,450
ammonia could come into the vehicle and

37
00:02:01,789 --> 00:01:59,970
then it would be bad for all of us if we

38
00:02:03,710 --> 00:02:01,799

have any of those problems we come right

39

00:02:06,590 --> 00:02:03,720

here which we call the central post it

40

00:02:08,990 --> 00:02:06,600

is the main heart of the space station

41

00:02:11,690 --> 00:02:09,000

it was also the first computers that

42

00:02:13,550 --> 00:02:11,700

came up here that ran the space station

43

00:02:16,400 --> 00:02:13,560

so behind this wall right here are these

44

00:02:19,729 --> 00:02:16,410

main computers so we gather here as a

45

00:02:21,140 --> 00:02:19,739

group of three or six and then figure

46

00:02:23,960 --> 00:02:21,150

out how we're gonna either fight the

47

00:02:26,570 --> 00:02:23,970

fire patch the hole or solve the the

48

00:02:28,789 --> 00:02:26,580

toxic spill and what's cool about this

49

00:02:32,479 --> 00:02:28,799

module of course it's the central post

50

00:02:37,509 --> 00:02:32,489

it also has great windows right down

51
00:02:40,640 --> 00:02:37,519
toward Earth it has controls to fly in

52
00:02:43,099 --> 00:02:40,650
visiting spacecraft if they need some

53
00:02:45,380 --> 00:02:43,109
assistance right here it has Russian

54
00:02:48,110 --> 00:02:45,390
computers as well as American computers

55
00:02:50,199 --> 00:02:48,120
to help us control anything we need to

56
00:02:52,390 --> 00:02:50,209
on the space station

57
00:02:54,490 --> 00:02:52,400
it's a cup of our crewmates back there

58
00:02:58,720 --> 00:02:54,500
I'll live Oleg Novitsky on the right and

59
00:03:00,910 --> 00:02:58,730
yuri malenchenko on the left and there

60
00:03:03,070 --> 00:03:00,920
is also a second bathroom here which is

61
00:03:05,259 --> 00:03:03,080
really cool because six of us going to

62
00:03:06,520 --> 00:03:05,269
one bathroom is really tough and so

63
00:03:07,960 --> 00:03:06,530

there's one bathroom here and one

64

00:03:10,240 --> 00:03:07,970

bathroom on the other side where I

65

00:03:13,690 --> 00:03:10,250

showed you and you can probably see on

66

00:03:16,770 --> 00:03:13,700

the wall behind a leg and Yuri some of

67

00:03:20,080 --> 00:03:16,780

the heroes of the space program

68

00:03:23,289 --> 00:03:20,090

Korolev Sergei Korolev who was a chief

69

00:03:25,089 --> 00:03:23,299

designer of putting men into space and

70

00:03:27,759 --> 00:03:25,099

of course on the right hand side Yuri

71

00:03:34,650 --> 00:03:27,769

Gagarin the first man you're going to

72

00:03:43,320 --> 00:03:38,090

Yuriy what are you doing still deal it

73

00:03:43,330 --> 00:03:47,520

black coffee

74

00:03:47,530 --> 00:03:51,610

looks good

75

00:03:57,530 --> 00:03:55,610

okay spasiba

76
00:03:58,670 --> 00:03:57,540
we're going to check out our Soyuz real

77
00:04:02,899 --> 00:03:58,680
quick

78
00:04:03,750 --> 00:04:02,909
make sure it's ready to go all right

79
00:04:11,690 --> 00:04:03,760
back to the Soyuz

80
00:04:15,530 --> 00:04:13,430
I'm going to I'm going to stop here just

81
00:04:17,420 --> 00:04:15,540
for a quick second you can see on the

82
00:04:22,060 --> 00:04:17,430
Russian spacecraft there's also other

83
00:04:26,750 --> 00:04:22,070
modules that stick out down and above

84
00:04:32,420 --> 00:04:26,760
right here is let's see I'm trying to be

85
00:04:34,430 --> 00:04:32,430
oriented that's a place where we do

86
00:04:36,050 --> 00:04:34,440
spacewalks forever for the Russians the

87
00:04:38,000 --> 00:04:36,060
Russian side there's Russian spacesuits

88
00:04:40,760 --> 00:04:38,010

in here and also a visiting vehicle

89

00:04:42,950 --> 00:04:40,770

which brought fruits and vegetables and

90

00:04:46,280 --> 00:04:42,960

becomes a trash container when we undock

91

00:04:47,510 --> 00:04:46,290

upon this side is also a future place

92

00:04:50,930 --> 00:04:47,520

where they're going to do spacewalks

93

00:04:56,820 --> 00:04:50,940

from and connected to it is Kevin's a

94

00:05:00,749 --> 00:04:56,830

legs and you're Ginny's Soyuz spacecraft

95

00:05:14,940 --> 00:05:00,759

and I was go see ours whoa there's been

96

00:05:14,950 --> 00:05:26,420

[Music]

97

00:05:45,609 --> 00:05:27,710

coming down

98

00:05:45,619 --> 00:05:53,330

it's a little tricky getting in here

99

00:05:57,920 --> 00:05:55,370

this is the docking probe right here

100

00:06:00,020 --> 00:05:57,930

this big thing this helps us connect to

101
00:06:03,810 --> 00:06:00,030
the spacecraft this probe actually

102
00:06:06,300 --> 00:06:03,820
sticks into this cone

103
00:06:09,270 --> 00:06:06,310
and that's how the spacecraft this our

104
00:06:12,410 --> 00:06:09,280
Soyuz becomes connected to the ISS

105
00:06:16,500 --> 00:06:12,420
initially that is then replaced by

106
00:06:18,360 --> 00:06:16,510
clamps which are around here that will

107
00:06:20,090 --> 00:06:18,370
allow the two spacecraft to be stuck

108
00:06:27,390 --> 00:06:20,100
together and then you can remove the

109
00:06:27,400 --> 00:06:36,320
[Laughter]

110
00:06:40,730 --> 00:06:38,420
all right so here we are in the store

111
00:06:42,920 --> 00:06:40,740
use this is what we call the Beto the

112
00:06:45,980 --> 00:06:42,930
living compartment the boy up set in

113
00:06:47,869 --> 00:06:45,990

Russian it also has a little bathroom

114

00:06:49,939 --> 00:06:47,879

it's not as good as the other bathrooms

115

00:06:51,920 --> 00:06:49,949

so we try not to use it too much

116

00:06:52,879 --> 00:06:51,930

it has drinking water in it if we need

117

00:06:54,950 --> 00:06:52,889

something to drink

118

00:07:00,619 --> 00:06:54,960

and then of course it's filled up with a

119

00:07:03,020 --> 00:07:00,629

lot of cargo for us for us bringing up

120

00:07:04,820 --> 00:07:03,030

and also bringing back down it has a

121

00:07:08,450 --> 00:07:04,830

second first person when it comes back

122

00:07:10,999 --> 00:07:08,460

to earth it serves as a garbage

123

00:07:13,399 --> 00:07:11,009

container during the descent will will

124

00:07:15,200 --> 00:07:13,409

get rid of this this area right here and

125

00:07:16,790 --> 00:07:15,210

everything that's in it will just burn

126
00:07:18,290 --> 00:07:16,800
up as it's coming into the atmosphere so

127
00:07:21,469 --> 00:07:18,300
that way we can get rid of a little bit

128
00:07:23,240 --> 00:07:21,479
of trash but the main area where we were

129
00:07:25,309 --> 00:07:23,250
on launch and where we're going to be on

130
00:07:26,959 --> 00:07:25,319
descent is down here because we're not

131
00:07:30,960 --> 00:07:26,969
part of the trash so we're in a safe

132
00:07:32,879 --> 00:07:30,970
place so we're in the descent module si

133
00:07:51,140 --> 00:07:32,889
[Music]

134
00:07:55,939 --> 00:07:53,530
not sure how well you could see in here

135
00:07:58,189 --> 00:07:55,949
go down for a second I'm going to turn

136
00:08:01,700 --> 00:07:58,199
it up this way just so you could see the

137
00:08:04,189 --> 00:08:01,710
hatch and you can see Kevin it's a

138
00:08:04,760 --> 00:08:04,199

little bit small but we'll come in and

139

00:08:07,740 --> 00:08:04,770

show you around

140

00:08:17,020 --> 00:08:07,750

[Music]

141

00:08:21,650 --> 00:08:19,100

got to move a couple things we were just

142

00:08:25,940 --> 00:08:21,660

starting to get ready we're preparing a

143

00:08:28,100 --> 00:08:25,950

couple days ago for our ride home it's a

144

00:08:30,680 --> 00:08:28,110

little bit squishy but everybody asks

145

00:08:33,140 --> 00:08:30,690

how do you sit in the Soyuz and you sort

146

00:08:35,510 --> 00:08:33,150

of sit in your seat like this seat is

147

00:08:37,310 --> 00:08:35,520

molded to your body and so you can just

148

00:08:40,970 --> 00:08:37,320

sort of squish in here and be pretty

149

00:08:43,370 --> 00:08:40,980

relaxed everybody has a handmade seat

150

00:08:45,710 --> 00:08:43,380

for them and then of course there's a

151

00:08:48,890 --> 00:08:45,720

control panel and that's where we do

152

00:08:50,690 --> 00:08:48,900

most of our actions and work right here

153

00:08:53,570 --> 00:08:50,700

there's hand controllers which you can

154

00:08:54,980 --> 00:08:53,580

fly the vehicle with and there's a stick

155

00:08:57,650 --> 00:08:54,990

right here primarily used for

156

00:09:00,260 --> 00:08:57,660

communications when we're trying to talk

157

00:09:02,450 --> 00:09:00,270

to the ground so three of us fit in here

158

00:09:04,730 --> 00:09:02,460

like I said it's a little squishy but

159

00:09:07,040 --> 00:09:04,740

somehow it seems like we all managed to

160

00:09:08,930 --> 00:09:07,050

get in here and and fit pretty well and

161

00:09:10,490 --> 00:09:08,940

it's a pretty safe ride home

162

00:09:13,070 --> 00:09:10,500

you're probably wondering what's all

163

00:09:15,020 --> 00:09:13,080

this junk behind us well it's all of our

164

00:09:17,090 --> 00:09:15,030

parachute first of all and then it's all

165

00:09:19,730 --> 00:09:17,100

of our survival gear just in case we end

166

00:09:21,950 --> 00:09:19,740

up landing in some strange place on the

167

00:09:23,840 --> 00:09:21,960

planet and nobody's there to rescue us

168

00:09:27,170 --> 00:09:23,850

right away we have all sorts of survival

169

00:09:28,100 --> 00:09:27,180

gear with us keeping us safe in here so

170

00:09:28,640 --> 00:09:28,110

they've pretty much thought of

171

00:09:31,460 --> 00:09:28,650

everything