



ISRO



SpaceX



1
00:00:08,710 --> 00:00:06,950
standing by for the initiation of the

2
00:00:10,709 --> 00:00:08,720
engine start

3
00:00:14,629 --> 00:00:10,719
the second umbilical has been retracted

4
00:00:24,710 --> 00:00:18,150
engines coming up to turbo speed

5
00:00:29,349 --> 00:00:26,630
and liftoff

6
00:00:31,349 --> 00:00:29,359
we have liftoff of the 65th progress

7
00:00:33,350 --> 00:00:31,359
resupply vehicle beginning a two-day

8
00:00:40,150 --> 00:00:33,360
journey to the international space

9
00:00:45,750 --> 00:00:43,190
all engines performing nominally a good

10
00:00:53,350 --> 00:00:45,760
roll pitch and yaw program reported from

11
00:00:53,360 --> 00:01:00,229
good control of the vehicle

12
00:01:07,109 --> 00:01:03,349
good vehicle stabilization reported

13
00:01:08,789 --> 00:01:07,119

the soyluz delivering 100 ton 102 tons of

14

00:01:20,789 --> 00:01:08,799

thrust from its first stage engine

15

00:01:25,429 --> 00:01:23,109

all vehicle parameters reported

16

00:01:44,550 --> 00:01:25,439

performing perfectly

17

00:01:48,469 --> 00:01:46,389

everything continues to perform

18

00:01:49,590 --> 00:01:48,479

nominally on the first stage performance

19

00:01:52,630 --> 00:01:49,600

of the

20

00:01:55,190 --> 00:01:52,640

soyluz booster with the progress 65 cargo

21

00:02:05,270 --> 00:01:55,200

craft

22

00:02:08,389 --> 00:02:06,709

we're coming up on

23

00:02:10,150 --> 00:02:08,399

solid

24

00:02:25,910 --> 00:02:10,160

booster separation and first stage

25

00:02:29,030 --> 00:02:27,190

and we have confirmation of the

26
00:02:34,790 --> 00:02:29,040
separation of the first stage of the

27
00:02:39,509 --> 00:02:36,630
the soyuz booster and the progress

28
00:02:41,190 --> 00:02:39,519
resupply vehicle 30 miles in altitude 73

29
00:02:43,990 --> 00:02:41,200
miles downrange from the baikonur

30
00:02:48,869 --> 00:02:44,000
cosmodrome traveling at 4 000 miles an

31
00:02:53,350 --> 00:02:51,350
two minutes 40 seconds into the flight

32
00:02:55,430 --> 00:02:53,360
the second stage engine up and running

33
00:03:03,270 --> 00:02:55,440
in good shape all parameters reported to

34
00:03:08,710 --> 00:03:05,589
and we've had shroud jettison so the

35
00:03:11,350 --> 00:03:08,720
progress now exposed as it continues its

36
00:03:13,030 --> 00:03:11,360
trek uphill to its preliminary orbit

37
00:03:22,390 --> 00:03:13,040
we're at the three minute mark into the

38
00:03:22,400 --> 00:03:26,789

good vehicle stabilization reported

39

00:03:32,229 --> 00:03:29,110

the soyuz booster tracking in perfect

40

00:03:36,390 --> 00:03:34,390

well control system parameters are

41

00:03:42,229 --> 00:03:36,400

normal reported by the block house in

42

00:03:53,589 --> 00:03:44,630

and the second stage engine continues to

43

00:04:16,550 --> 00:03:55,429

good control of the vehicle with five

44

00:04:21,189 --> 00:04:19,590

the second stage engine providing 96

45

00:04:23,430 --> 00:04:21,199

tons of thrust

46

00:04:25,990 --> 00:04:23,440

as it continues to move right down the

47

00:04:27,909 --> 00:04:26,000

pike towards its preliminary orbit and

48

00:04:35,990 --> 00:04:27,919

spacecraft separation of the progress

49

00:04:36,000 --> 00:04:43,909

four and a half minutes into the flight

50

00:05:09,990 --> 00:04:46,550

we're coming up on second stage engine

51
00:05:14,469 --> 00:05:11,830
we've had second stage shutdown and

52
00:05:16,629 --> 00:05:14,479
separation aft skirt separation and the

53
00:05:21,749 --> 00:05:16,639
third stage is up and running

54
00:05:26,550 --> 00:05:24,230
the third stage providing about 30 tons

55
00:05:27,909 --> 00:05:26,560
of thrust to complete the progress is

56
00:05:30,550 --> 00:05:27,919
climbed to orbit

57
00:05:32,629 --> 00:05:30,560
will fire for just under four minutes to

58
00:05:34,070 --> 00:05:32,639
place the progress into its preliminary

59
00:05:35,510 --> 00:05:34,080
orbit

60
00:05:37,110 --> 00:05:35,520
coming up on the five and a half minute