

070



1

00:00:00,400 --> 00:00:04,350

\h COMMENTATOR ALLARD BEUTEL: Ten seconds. We have "go" for main engine

2

00:00:04,350 --> 00:00:14,080

\h start... seven... six... five... four... three... two... one... booster ignition, and liftoff of

3

00:00:14,080 --> 00:00:18,330

\h shuttle Discovery, gambatte kudasai, best of luck to the International

4

00:00:18,330 --> 00:00:21,830

\h Space Station's newest laboratory.

5

00:00:21,830 --> 00:00:24,830

\h COMMANDER MARK KELLY: (Inaudible) Discovery roll program.

6

00:00:24,830 --> 00:00:26,940

\h CAPCOM: Roger, roll Discovery.

7

00:00:26,940 --> 00:00:29,700

\h COMMENTATOR ROB NAVIUS: Houston now controlling of the flight of

8

00:00:29,700 --> 00:00:33,480

\h Discovery, of man-made rising sun on behalf of Japan.

9

00:00:33,480 --> 00:00:36,900

\h Discovery on the proper alignment, heads down, wings level, for the eight and a

10

00:00:36,900 --> 00:00:40,370

\h half minute ride to orbit, four and a half million pounds of hardware and humans

11

00:00:40,370 --> 00:00:49,370

\h taking aim on the International Space Station.

12

00:00:49,370 --> 00:00:52,900

\h At 36 seconds into flight, the three liquid fuel main engines now throttling back to

13

00:00:52,900 --> 00:00:56,770

\h 72 percent of rated performance, going in the bucket, reducing the stress on the

14

00:00:56,770 --> 00:01:06,270

\h shuttle as it goes supersonic.

15

00:01:06,270 --> 00:01:09,810

\h Discovery already five miles in altitude, eight and a half miles down range,

16

00:01:09,810 --> 00:01:14,120

\h traveling almost 1, 000 miles an hour.

17

00:01:14,120 --> 00:01:18,590

\h CAPCOM: Discovery, Houston, go at throttle up.

18

00:01:18,590 --> 00:01:21,640

\h KELLY: Roger go at throttle up.

19

00:01:21,640 --> 00:01:24,500

\h NAVIUS: Throttle up call acknowledged by Commander Mark Kelly, joined on the

20

00:01:24,500 --> 00:01:27,640

\h flight deck by Pilot Ken Ham, Flight Engineer Ron Garan, and Mission Specialist

21

00:01:27,640 --> 00:01:31,620

\h Karen Nyberg. Down on the middeck are Mike Fossum, Akihiko Hoshide, and

22

00:01:31,620 --> 00:01:57,480

\h Greg Chamitoff, heading for a half year on the International Space Station.

23

00:01:57,480 --> 00:02:03,190

\h One minute, 45 seconds into the flight, Discovery 22 miles in altitude, 23 miles