

Equipment water leak shortens spacewalk by two US astronauts

May 12 2017, by Marcia Dunn



This still image provided by NASA shows astronauts Jack Fischer, left, and Peggy Whitson on a spacewalk outside the International Space Station on Friday, May 12, 2017. An equipment water leak has shortened the spacewalk. During preparations earlier in the morning, water leaked from the connection point between an umbilical hose and Fischer's suit. The hose is one of two that provide water, oxygen, power, cooling and communications for astronauts before they float outside. (NASA via AP)

An equipment water leak shortened Friday's spacewalk by two U.S. astronauts at the International Space Station, but they still managed to replace a faulty electronics box.

Despite the initial trouble, it was a milestone moment as Peggy Whitson and Jack Fischer floated outside on the station's 200th spacewalk.

The astronauts wasted no time removing the old electronics box, their No. 1 chore, and plugging in a new unit. The device—a bit unwieldy at more than 5 feet long—supplies electricity and data to science experiments on the outside of the station.

During earlier preparations, a small amount of water leaked from the connection point between an umbilical hose and Fischer's suit. The hose is one of two that provide water, oxygen, power, cooling and communications for astronauts before they float outside.

The leaky hose had to be disconnected before the spacewalk could begin. The [astronauts](#) ended up sharing Whitson's hose while they waited, which reduced their suit battery power. As a result, Mission Control cut the spacewalk from the intended 6 ½ hours to four hours even before it began, and ditched all but the most important chore—replacing the electronics box.

"Everyone here in Mission Control wants to thank you for the heroic work that you all have done to get us to this point," Mission Control radioed as the spacewalk finally got underway.

The electronic box change-out went so well and fast that the spacewalkers had time to squeeze in a couple other chores, most notably the addition of a special data connector to the Alpha Magnetic Spectrometer.

Launched in 2011 on the next-to-last shuttle flight, the high-profile particle physics detector known as AMS is still working and has measured 100 billion particles. But it's in need of repairs because of failing coolant pumps; Friday's work on a bypass route for data should

help future efforts.

"You guys have been trucking through these tasks," Mission Control told the spacewalkers.

This spacewalk was supposed to take place in early April, but was put on hold because of delays in launching the replacement box and spectrometer equipment. The parts finally arrived late last month aboard Orbital ATK's commercial cargo ship, the S.S. John Glenn, named after the first American to orbit Earth.

It was the first spacewalk for Fischer, who arrived at the station less than a month ago. Whitson has performed more spacewalks than any other woman. This was her ninth.

"Oh my gosh, this is beautiful," Fischer said as he worked 250 miles above the planet.

"Isn't it," Whitson agreed, chuckling.

Mission Control stressed throughout the morning that Fischer's suit was fine and that the leak was confined to the umbilical hose. Spare parts are on board to restore the system. NASA is especially wary of leaks involving spacesuits. In 2013, an Italian astronaut almost drowned during a [spacewalk](#) when water from the suit's cooling system flooded his helmet.

Astronauts kicked off space station construction in orbit in 1998. The 200 mark includes assembly and maintenance by Russian spacewalkers as well as U.S.

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