

Chronology of Principal Events

December 13, 2023

Suzuki Motor Corporation (Suzuki) received information from its Hamamatsu, Japan manufacturing plant that a quality inspection of the front brake system of a production 2024 Hayabusa (GSX1300R) motorcycle that involved fixed application of the front brake lever to pressurize the front brake system for approximately 4 hours had identified leakage of brake fluid from the anti-lock brake system module (ABS module). The leak area was inspected, and the leak was found to be the result of incompletely tightened brake fluid flare fittings at the ABS module. Suzuki stopped shipment of all completed 2024 GSX1300R motorcycles and began an investigation.

December 15, 2023

Suzuki determined that a production line worker who had been responsible for performing attachment of the brake fluid lines to the ABS module had deviated from the normal installation procedure that the worker had been originally instructed to follow. Under the standard procedure as instructed by the worker's supervisor, the brake fluid flare fitting tightening for 2 specific brake fluid line connections on the output side of ABS module was to be divided into 2 to 3 individual tightening operations due to physical space restrictions around the ABS module that limited the free travel area of the torque wrench. However, the production worker independently altered the tightening procedure to a single wrench movement as opposed to the correct procedure that specified multiple wrench movements. In this condition, it was possible for the torque wrench to make contact with an engine intake pipe during the tightening process, potentially preventing full specified tightening torque to the flare nuts for 2 out of 4 brake fluid line connections to the ABS module.

December 22, 2023

Suzuki inspected the production vehicles from the lot that had been held from shipment and confirmed that some motorcycles had incompletely tightened ABS module brake fluid flare nut fittings. The flare nut fittings for all held vehicles were inspected and tightened to the correct torque specification and the shipment stop order was removed.

December 28, 2023

Following inspection of the 551 GSX1300R motorcycles that had been manufactured and held from shipment, Suzuki confirmed that the brake piping line flare nuts had been incompletely tightened on some of the vehicles, however no brake fluid leakage was detected on any of the 551 vehicles. Suzuki determined that the causal fault was the assembly process substitution by the production line worker that had been identified on December 15, 2023.

January 18, 2024

Because incomplete tightening of the brake fluid flare nut fittings could allow brake fluid leakage and increased stopping distance in the worst case, Suzuki decided to perform a safety recall to correct the tightening torque of the ABS module flare nut fittings.