

Disc Brake Rotor, Replacement
VAH, VHD, VN, VNE**FSB 511-010, Disc Brake Rotor, Replacement****(July 2021)**

On January 21, 2015, EPA, states, and the automotive industry signed an agreement to reduce the use of copper and other materials in motor vehicle brake pads. The agreement calls for reducing copper in brake pads to < 5 percent by weight in 2021 and 0.5 percent by 2025. In addition to copper, this voluntary initiative reduces mercury, lead, cadmium, asbestiform fibers, and chromium-six salts in motor vehicle brake pads.

Beginning 11/16/2020, trucks were produced with reduced copper content brake pads/shoes. To cope with the higher operating temperatures produced by the new low/no copper friction material, the web size of the disc brake rotors was increased.

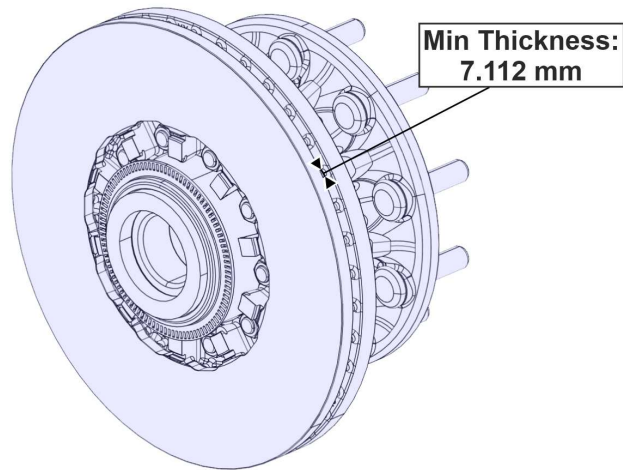
With the high copper content brake pads no longer being produced, care must be taken to correctly pair compatible parts per axle.

Trucks using a VOLVO proprietary rotor with a web thickness of less than 16mm must use a brake pad containing at least 5% copper. If 5% copper pads are not available, the rotors must be replaced with ones having the 16mm web.

For Brake pad identification refer **TPI 510-006**. For Rotor Identification Refer to **TPI 773-034**.

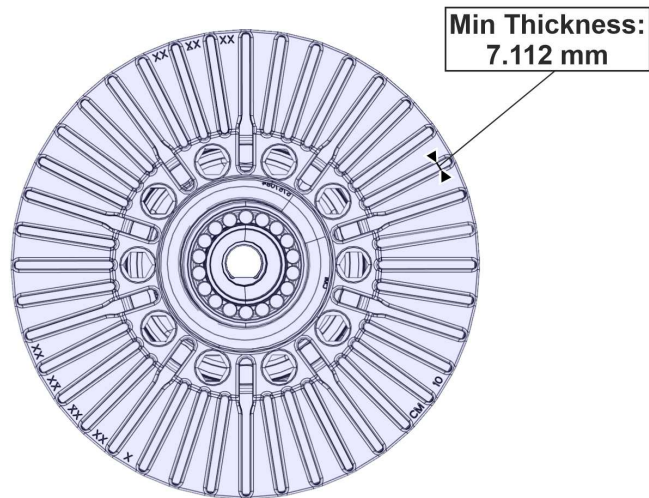
IMPORTANT: The mounting flange of the updated rotor is thicker requiring longer mounting studs.

Before 11/16/2020 (to be paired with high copper content brake pads):



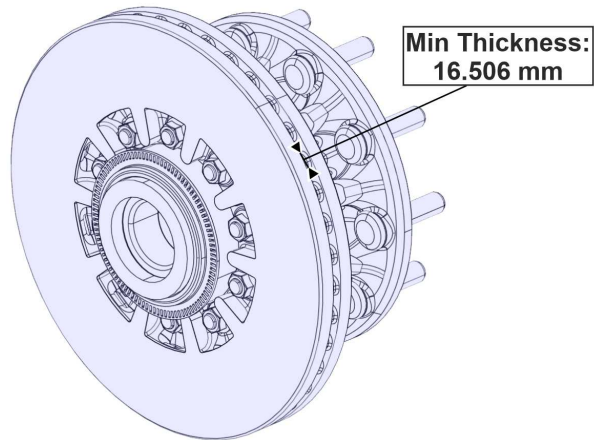
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Sectioned View:



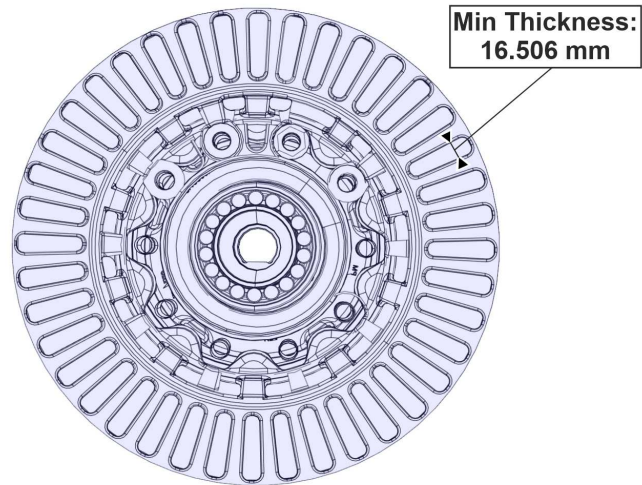
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11/16/2020 and after (to be paired with low/no copper content pads):



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Sectioned View:



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IMPORTANT: When replacing the disc brake rotor, the thicker rotor requires longer mounting studs. Longer mounting stud part number: 24019860.

IMPORTANT: The recommended best practice is to replace these rotors in pairs to ensure brake balance and reliability across the affected axle.

VOLVO Trucks North America reserves the right to make any changes in design or to make additions to or upon its products without incurring any obligations to install the same on vehicles previously built.