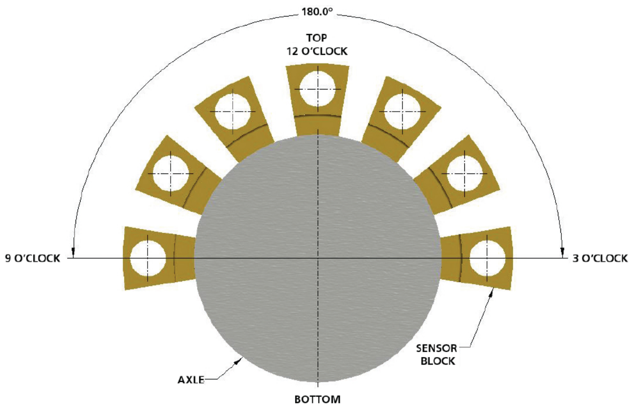
Wheel End Speed Sensor Installation

Sensor Block Allowable Placement

The radial clocking position should be between 9 and 3 o'clock. While the ABS performance is not affected with sensor location in the lower half of the axle, the structural integrity of the axle could be compromised. The sensor block placement should not interfere with any wheel end hardware.

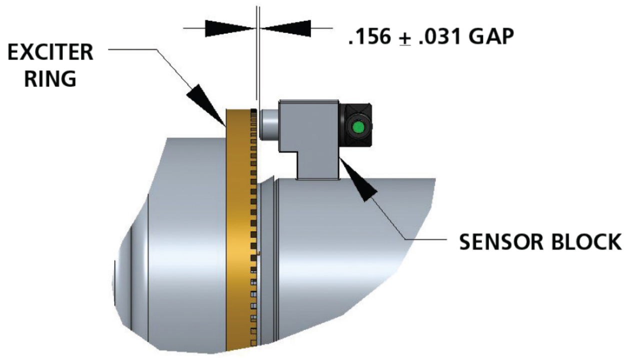


Speed Sensor Allowable Clearance

The clearance between the speed sensor and the exciter ring should be 0.156 ± .031". Any deviation will result in a reduction of the wheel speed sensor signal output.

Check retention of the sensor within the sensor block - make sure the fit is tight.

Note: Sensor block type and exciter ring depth may vary between manufacturers.



General Positioning

The position of the wheel speed sensor center axis to the exciter ring surface should be a close as possible to a 90° angle in both directions. Any deviation will result in a reduction of the wheel speed sensor signal output. The sensor block is generally welded to the axle. Refer to axle manufacturer's manual to ensure that welding won't affect structural integrity of the axle.