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Service Tips and Best Practices

ABS Reluctor Ring, Metallic Debris and ABS Activation

Brand	BXT/ Supreme Hubs/TTX	Product	Bearings and Wheel Hub Assembly	Date	March 2021
Part Number(s)	Various				

On some applications with an active wheel speed sensor, the ABS reluctor ring is integrated into the outer bearing seal. Depending on wheel bearing design and placement on vehicle, this seal with the reluctor ring may be directly exposed to road debris.

The reluctor ring is composed of evenly spaced magnets with alternating polarities. These magnets may attract small metallic debris or particles while the vehicle in operation.

Over time, this accumulation of metallic debris and or particles on the outer seal may trigger an ABS code and or ABS activation condition.

If one or more of the above symptoms are displayed when diagnosing a vehicle which features an exposed seal with an integrated reluctor ring, ensure to inspect for a buildup of metallic debris. Additionally, always refer to the vehicle's factory service manual for correct diagnostic, removal and replacement procedures.

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