

SERVICE BULLETIN

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SUBJECT: Perceived Drive Axle brake bind shown on brake rollers coming from the Allison gearbox

It is possible when roller brake testing Dennis Elite 2 & Elite 6 drive axles that a perceived brake bind will be shown, this is actually a function of the gearbox which has been created to prevent the output shaft of the gearbox propelling the vehicle forward when in neutral with the engine running. Gearbox oil temperature is also a factor, when the oil is cold the perceived brake bind will show up as being greater.

Please see the statement below from Allison Transmissions:

The Allison 3000 series transmission has had the Neutral Anti Drag feature since circa 2010, for information see below how the feature performs.

‘This feature prevents the transmission output from spinning due to clutch drag by lightly applying clutches C4 and C5 to prevent output shaft rotation’.

This bulletin can be shown to a VOSA MOT tester to help prove that the drive axle brakes are not binding and it is actually a feature that has been introduced to the Allison gearbox.

If in doubt about the perceived brake bind you can turn the engine off and carry out a brake bind test to prove this bind is coming from the gearbox and not the braking system.