



TECHNICAL BULLETIN

SUBJECT: EB 14-003: Air Disc Brake and Caliper Troubleshooting with e-Stroke

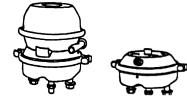
-- Double Check Before You Replace --

- 1. **Use** an MGM Diagnostic Tool for Inspection and Troubleshooting.
- 2. **Always** confirm the correct wheel is being inspected by unplugging the e-Stroke sensor at the suspect wheel end and verify a sensor fault (after 60 seconds) with an MGM Diagnostic Tool. This confirms if the harness is installed correctly.
- 3. Call MGM Brakes Technical Support for Troubleshooting Assistance. (877) 437-8765
- Actuator Re-Installation allowed if Actuator Boot and ESP Sensor Seal Height is greater than [≥] 3mm (0.118 in). Measure seal height with feeler gage, depth micrometer or caliper before re-installation.
- 5. Similar faults on *Right and Left Sides of the Same Axle* are typically caused by a *Control System Issue* rather than an issue with the Actuator or Caliper, i.e. Valve, Interlock, Contaminated Airline.
- 6. Faults reported on a *Single Wheel Only* are likely to be from a *Mechanical or Electrical Issu*e with the caliper or actuator assembly.
- 7. Non-Function AND Over-Stroke Faults on One Wheel Only
 - Note that a combination of multiple Non-Function, Over-Stroke, and Drag faults from the
 e-Stroke system accumulating on a single wheel end may be indicating a Low Caliper
 Lining Running Clearance Condition.
 - Note that Caliper Lining Running Clearance may be Over-Adjusted.
 - Check that Caliper Lining Running Clearance meets manufacture's specification.
 - Inspect Caliper for signs of High Temperature Operation or Moisture Contamination.
- 8. Dragging Brake Fault Only
 - **Note** that e-Stroke will only display an Active Dragging Brake Fault when the vehicle is moving greater than [≥] 5mph for 30 seconds.
 - Check for Ice or Moisture in Air Lines, Valve Issues Cold Weather Conditions.
 - Check Caliper Function, Presence of Rust or Moisture (Single Wheel Fault).
 - Check Sensor Ground Black Wire to CCM (Single Wheel Fault).
- 9. Check Sensor Voltage at CCM Connector while system is powered and wheels chocked:

Test	Wires: Green (Signal +) to Black (Ground -) Voltage
Brakes Released	0.10 – 1.99V DC
Brakes Applied	>2.00V DC
Sensor Fault	< 0.10V DC after 60 seconds
Sensor Power: Red (Power +) to Black (Ground -) Voltage – More Than [>]4.8V DC	

Contact MGM Brakes for e-Stroke Technical Support - 1-877-4-e-STROKE

FORM EF 3100 - 09/96 REV: 02 07/03/2018





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