



Ministry of Public Safety and Solicitor General  
Commercial Vehicle Safety and Enforcement

VEHICLE INSPECTION MANUAL BULLETIN

**Bulletin # 01/04**  
January 05, 2004  
**Effective Date:**  
**February 01, 2004**

# AIR BRAKE

## Internal Brake Inspections – General Instructions

Regardless of the number of axles, all vehicles fitted with brakes by the manufacturer must have all brake components inspected as listed in the Vehicle Inspection Manual. Each brake component must meet the inspection criteria, including the push rod travel, and be in proper working order before the vehicle can pass inspection.

Authorized Inspectors are reminded that by signing the MV3104 inspection form they are certifying that brake components meet the legal inspection criteria and that the inspected brakes are in good working order.

### Vehicles with Removable Dust Shields/Backing Plates

**If evidence of defect(s) on internal brake components is found during inspection the following must be completed:**

- The defective brake assembly shall be disassembled for further inspection and repair.
- **Measure** the internal brake drum diameter and brake lining thickness at center of brake shoe.
- **Record** the measurements obtained on form MV3104.

**If there is no indication of brake defect(s), complete inspection of internal brake components by carrying out one of the following three methods and recording the results:**

#### METHOD 1

- Perform a camshaft rotation test (procedure listed in vehicle inspection manual).
- **Measure** degrees of rotation and brake lining thickness at center of brake shoe.
- **Record** degrees of rotation and brake lining thickness on form MV3104.

#### METHOD 2

- If equipped with dust shields remove dust shields.
- **Measure** internal brake drum diameter and brake lining thickness at center of brake shoe.
- **Record** brake drum diameter and brake lining thickness on form MV3104.

#### METHOD 3

- Remove brake drums and inspect internal brake components.
- **Measure** internal brake drum diameter and brake lining thickness at center of brake shoe.
- **Record** brake drum diameter and brake lining thickness on form MV3104.

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**Vehicles with Non-Removable Dust Shields/Backing Plates**

**METHOD 1**

- **If proof of wheel removal and brake inspection** within the preceding 24 months is provided by the vehicle owner, (see definition) perform a visual inspection through the inspection holes.
- **If no holes are present, internal brake components must be inspect under METHOD 2 below.**
- If applicable, perform a camshaft rotation test (procedure listed in vehicle inspection manual).
- **Measure** degrees of rotation and brake lining thickness at center of brake shoe.
- **Record** degrees of rotation and brake lining thickness on form MV3104.

**METHOD 2**

- When proof of wheel removal is not provided or no inspection holes are present, remove brake drums and inspect internal brake components.
- **Measure** internal brake drum diameter and brake lining thickness at center of brake shoe.
- **Record** brake drum diameter and brake lining thickness on form MV3104.

**Proof of Wheel Removal and Inspection**

Only brake measurements taken and recorded by an authorized inspector employed at a designated facility will be accepted as proof. The proof must also be clearly legible, with date of inspection, odometer (if applicable), vehicle identification number, licence plate number, authorized inspector's MO number and signature and the facility number.

**Reminder**

**All required measurements must be recorded on the MV3104 in the brake section.**