

Brake Shimmy–Meritor® SteeLite X30™ Brake Drum With Excessive Runout

42-6

> Constellation
Heritage
> 4700 Models

> 4800 Models
> 4900 Models

> 5900 Models
> 6900 Models

Western Star
Service Bulletin

Description of Revisions: *This bulletin replaces the version dated May 2012. The cause code in the "OWL VMRS Codes and Labor Allowance" table is updated.*

General Information

NOTE: This bulletin applies only to vehicles equipped with Meritor SteeLite X30 front brake drums.

Some vehicles equipped with Meritor SteeLite X30 front brake drums exhibit moderate to severe shake or shimmy when the brakes are applied. Most reported occurrences have been during light to moderate brake application, with the speed decreasing from 60 to 40 mph (97 to 64 km/h). Brake lining has been eliminated as a contributing factor. Meritor SteeLite X30 drums returned to Daimler Trucks North America (DTNA) exhibit excessive runout. Both Meritor and DTNA test departments have found that installed runout over 0.010 in (0.25 mm) causes shimmy.

Procedure

1. Park the vehicle on a level surface, shut down the engine, and set the parking brakes. Chock the rear tires.
2. Verify that the vehicle is equipped with Meritor SteeLite X30 brake drums.
 - If the vehicle does not have Meritor SteeLite X30 brake drums, this bulletin does not apply.
 - If the vehicle has Meritor SteeLite X30 brake drums, go to the next step.
3. Check the front wheel nuts for proper torque. For instructions, see **Group 40** in the vehicle's workshop manual.
4. Raise the vehicle's front axle, and place it on appropriate jack stands.
5. Using a dial indicator, check the radial runout on the braking surfaces of the front brake drums.
 - If the runout on either drum is greater than 0.010 in (0.25 mm), replace the drums and brake linings on both axle ends.
 - If the runout on both drums is less than 0.010 in (0.25 mm), check for other issues that may be causing the shimmy.
6. If replacing the drums, replace the brake linings prior to installing the new drums. For instructions, see **Group 42** of the vehicle's workshop manual.
7. Replace Meritor SteeLite X30 brake drums with a ConMet® brake drum. Refer to **Table 1** for replacement parts. For instructions, see **Group 33** in the vehicle's workshop manual.
8. Check for incorrect hub-to-drum fitting or debris between the hub and drum.
9. Install the wheels and tires. For instructions, see **Group 40** in the vehicle's workshop manual.
10. Using a dial indicator, check the radial runout on the braking surfaces of the newly installed brake drums. Runout must not exceed 0.010 in (0.25 mm).
11. Raise the vehicle and remove the jack stands. Lower the vehicle.

Parts

See [Table 1](#) for a list of replacement parts available through the PDCs. Lining part numbers previously listed can be used up if in stock.

| Parts | | | | |
|---------------|----------------------|-------------------|-----------------|--------------------|
| Description | Defective Drum | | Replace With | |
| | Manufacturer | Part Number | Manufacturer | Part Number |
| Drums | Meritor SteeLite X30 | ROK 53123589 | ConMet CastLite | CM 10005332 |
| | | or (TDA 53123589) | ConMet TruTurn | CM 10014756 |
| Lining | N/A | N/A | Meritor Shoe | TDA SMA12014720QP |
| | N/A | N/A | Meritor Kit | TDA KSMA12014720QP |
| Reman Linings | N/A | N/A | Meritor Kit | TDA XK12014720QP |

Table 1, Parts

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If drums are replaced with runout below .010, warranty does not apply. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Supplier pre-approval may be required. See [Table 2](#) for requirements.

| Supplier Pre-Approval Requirements | |
|--|---|
| Timeframe | Claim Procedure |
| Failure date is less than or equal to 6 months from the in-service date. | Claim may be submitted to DTNA without supplier authorization if the vehicle is repaired as directed in this bulletin. |
| Failure date is greater than 6 months from the in-service date. | OnTrac authorization is required. Document the OnTrac authorization or denial code number, and submit it through DTNA warranty. Do not use the OnTrac case number. |

Table 2, Supplier Pre-Approval Requirements

Normal warranty applies. See [Table 3](#) for QuickClaim damage code and labor allowance information. Refer to this service bulletin by number at the beginning of the claim comments. See [Table 4](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #:* field.

| QuickClaim Damage Code and Labor Allowance | | | |
|--|-----------|--|-------------|
| Damage Code | SRT Code | Description | Time: Hours |
| 402-001434130 | 402-5011A | Meritor X30 Brake Drum and Lining, Both Sides, R/R | 2.5 |

Table 3, QuickClaim Damage Codes and Labor Allowance

| OWL VMRS Codes and Labor Allowance | | | | | |
|------------------------------------|----------------|------------|-----------|--|-------------|
| Primary Failed Part | Component Code | Cause Code | SRT Code | Description | Time: Hours |
| Brake Drum | 013-001-023 | 26 | 402-5011A | Meritor X30 Brake Drum and Lining, Both Sides, R/R | 2.5 |

Table 4, OWL VMRS Codes and Labor Allowance