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## Alternate Wheel Bearing Adjustment Systems VN, VHD

### Alternate Wheel Bearing Adjustment Systems

(Effective from October 2000)

This information provides the correct procedures for alternate front wheel bearing adjustments. This includes the use of Pro-Torq® and Axilok® Wheel Bearing Nut Systems. Also included is information on the Meritor™ Unitized Front Non-Drive Steer Axles (12,000 and 13,200 lb.).

**Note:** For further information on system specifications refer to the appropriate manufacturer literature. For general information on Alternate Wheel Bearing Adjustment Systems, refer to Recommended Practice 640. Recommended Practice 640 (RP 640) is published by The Truck Maintenance Council (TMC), American Trucking Associations, Inc.

This information applies to:

- Pro-Torq Advanced Axle Spindle Nut System
- Axilok Unitized Wheel Bearing Nut System

This information also applies to the Adjusted Wheel Bearing system such as Meritor™ Unitized Front Non-Drive Steer Axles (12,000 and 13,200 lb.).

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## General

### Adjustable Wheel End Systems

Adjustable wheel end systems include the traditional type that uses a nut fastener. Two of these types of wheel end systems include the Axilok<sup>®</sup> and Pro-Torq<sup>®</sup> Wheel Bearing Systems. With these systems the bearings and seals are assembled according to manufacturer's instructions. The nut fastener system is installed on the axle spindle and allows for either limited wheel play or slight preload.

### Adjusted Wheel End Systems

Adjusted wheel end systems includes the Meritor<sup>™</sup> Unitized Front Non-Drive Steer Axles. These systems are characterized by having the bearings, seals, and lubricant all pre-installed. Bearing adjustment is preset in the hub assembly by the manufacturer. Unitized Wheel End components are not serviceable and should not be disassembled.

**Note:** If **any** of the Unitized Wheel End components are removed or field serviced by other than a Meritor technician, **all** warranties for the system are void.

### Meritor Truck Hub Unit

The Unitized hub and bearing combination for the Meritor Easy Steer Plus<sup>™</sup> Front Axle System is also referred to as the truck hub unit. The unit contains bearings which are lubricated for the life of the component. This unit has no serviceable parts and requires no adjustment.

**Note:** For further information on the Meritor Truck Hub Unit or the Easy Steer Plus<sup>™</sup> Front Axle, refer to the vendor literature or contact the Meritor Customer Service Center at 800/535-5560.

# Service Procedures

## General Work Practices

### **DANGER**

Before working on a vehicle, set the parking brakes, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

### **DANGER**

Never work under or around a vehicle unless it is supported on jack stands of adequate rating. Failure to use adequate jack stands can result in the vehicle falling, which can cause serious injury or death to anyone under the vehicle.

### **DANGER**

If placing a vehicle with Traction Control System (TCS) on jacks when servicing, the TCS must be disabled. If the TCS is not disabled and one of the wheels starts to spin, the TCS will compensate and the vehicle may come off the jack and may cause serious personal injury or death.

**Note:** Before servicing the vehicle, disable the TCS by disconnecting the harness at the TCS control valve.

**Note:** For Service Procedure information on the Meritor Easy Steer Plus™ Front Axle System, Axilok and Pro-Torq Wheel Bearing Systems refer to the proper vendor documentation.