

## Lubricant

**Table AT: Front Non-Drive Axle Greasing Specifications**

Grease*	Meritor Specification	NLGI Grade	Grease Classification	Outside Temperature
Multi-Purpose Grease*	0-617-A	1	6% Lithium 12-Hydroxyl Stearate	Refer to the grease manufacturer's specifications for the temperature service limits.
	0-617-B	2	8% Lithium 12-Hydroxyl Stearate	

\* Meritor recognizes that industry trends are moving toward increased selection and usage of synthetic grease in vehicle maintenance. However, some seals are known to expand when in contact with synthetic grease. Consult your local Meritor representative for synthetic grease application references BEFORE using any synthetic grease when performing axle service and maintenance.

## Troubleshooting

**Table AU: Front Non-Drive Steer Axle Diagnostic Table**

Condition	Cause	Correction
<b>Tires wear out quickly or have uneven tire tread wear.</b>	Tires have incorrect air pressure	Place the specified air pressure in the tires.
	Tires out-of-balance	Balance or replace the tires.
	Incorrect tandem axle alignment	Align the tandem axles.
	Incorrect toe-in setting	Adjust the toe-in specified setting.
	Incorrect steering arm geometry	Service the steering system as necessary.
	Excessive wheel-end play exists	Readjust the wheel bearings.
<b>Vehicle is hard to steer.</b>	Power steering system pressure low	Repair the power steering system.
	Steering gear linkage not assembled correctly	Assemble the steering gear correctly.
	Steering linkage needs lubrication	Lubricate the steering linkage.
	King pins binding	Replace the king pins.
	Incorrect steering arm geometry	Service the steering system as necessary.
	Caster out-of-adjustment	Adjust the caster as necessary.
	Tie rod ends hard to move	Replace the tie rod ends.
	Worn thrust bearing	Replace the thrust bearing.
<b>Tie rod ends are worn and require replacement.</b>	Tie rod ends require lubrication	Lubricate the cross tube ends. Verify that the lubrication schedule is followed.
	Severe operating conditions	Increase the frequency of inspection and lubrication intervals.
	Damaged boot on tie rod end	Replace the boot.

## 6 Front Non-Drive Steer Axles

**Table AU: Front Non-Drive Steer Axle Diagnostic Table**

<b>Condition</b>	<b>Cause</b>	<b>Correction</b>
<b>Bent or broken cross tube, tie rod end ball stud, steering arm or tie rod end. Component requires replacement.</b>	Too much pressure in the power steering system, pressure exceeds OEM specification	Adjust the power steering system to the specified pressure.
	Power steering system cut-off pressure, out-of-adjustment	Adjust the power steering system to the specified pressure.
	Vehicle operated under severe conditions	Verify that the vehicle is operated correctly.
	Add-on type of power steering system not installed correctly	Correctly install the add-on power steering system.
	Steering gear overtravel poppets incorrectly set or malfunctioning	Check for correct operation or adjust the overtravel of the poppets to the manufacturer's specifications.
	Axle stops incorrectly set	Set the axle stops to the manufacturer's specification.
<b>Worn or broken steering ball stud</b>	Drag link fasteners tightened higher than vehicle manufacturer's specifications	Tighten the drag link fasteners to the vehicle manufacturer's specified torque.
	Lack of lubrication or incorrect lubricant	Lubricate the linkage with the specified lubricant.
	Power steering stops out-of-adjustment	Adjust the stops to the specified dimension.
<b>Worn king pins and king pin bushings</b>	Worn or missing seals and gaskets	Replace the seals and gaskets.
	Incorrect lubricant	Lubricate the axle with the specified lubricant.
	Axle not lubricated at scheduled frequency	Lubricate the axle at the scheduled intervals.
	Incorrect lubrication procedures	Use the correct lubrication procedures.
	Lubrication schedule does not match operating conditions	Change the lubrication schedule to match the operating conditions.
<b>Vibration or shimmy of front axle during operation</b>	Caster out-of-adjustment	Adjust the caster.
	Wheels or tires out-of-balance	Balance or replace the wheels or tires.
	Worn shock absorbers	Replace the shock absorbers.