2361000 Truck Suspension (Customer-Supplied I-Beam Axle) — Bushing Replacement/Torque Specifications				
Part Number (Component)	Item Description	Size	Torque Values foot-pound Newton-meter	
6040161 - Bushing Kit	Traditional Hardware (HHCS/Locknut)	7/8″-14NF	500 ft-lb	678 N-m
6040160 - Bushing Kit	No Pivot Hardware			
Fasteners	Locknut - (Air Spring-Upper)	3/4"-16NF	50 ft-lb	68 N-m
	Locknut - (Air Spring-Upper)	1/2"-13NC	25 ft-lb	35 N-m
	Flanged Lock Screw - (Air Spring-Lower)	3/8"-16NC	25 ft-lb	35 N-m
	Locknut - (Air Spring-Lift)	3/4"-16NF	50 ft-lb	68 N-m
	Locknut - (Air Spring-Lift)	1/2"-20NF	25 ft-lb	35 N-m
	Flanged Lock Screw - (Air Spring-Lift)	3/8"-16NC	25 ft-lb	35 N-m
	Locknut - (Crosschannel)	5/8"-11NC	160 ft-lb	217 N-m
	Locknut - (Load Beam/Axle Assembly)	3/4"-16NF	310 ft-lb	420 N-m
	HHCS/Locknut - (Tie Rod/Steering Damper)	3/4"-10NC	160 ft-lb	217 N-m
	Locknut - (U-Bolt-Axle Steer Damper Mount)	3/8"-16NC	30 ft-lb	41 N-m

*Torque values reflect a lubricated thread condition (Nuts are pre-lubed). Do not overtorque.* 

**CAUTION** Suspension is shipped with minimal torque applied to fasteners. All fasteners must be re-torqued after first 6,000 miles of operation. Failure to install and maintain fasteners at torque specifications could result in suspension failure and void the warranty.

## Vehicle Preparation

Park vehicle on a level surface.

Chock the wheels to keep the vehicle from moving.

Exhaust all the air from the air system.

Disassemble suspension, if necessary, to reach the pivot connections.

<u>▲CAUTION</u> Failure to properly chock wheels and exhaust the air system could allow vehicle movement that could result in serious injury.

## **Bushing Replacement Procedure**

- Remove the pivot hardware by cutting/grinding away the Huck<sup>®</sup> Collar. Discard pivot hardware.
- 2. Inspect wear washers for excessive wear/damage. Replace, if necessary. Note: Wear washers included in bushing replacement kits.
- 3. Remove bushing assembly from torque rod and discard. Clean rod eye of foreign debris or corrosion.



- Apply Energy Suspensions<sup>®</sup> Formula 5 Prelube to the bore (inside) of the new bushings. NOTE: Do not substitute special urethane bushing lubricant included with all bushing kits.
- 5. Install replacement pivot bushing in the eye of the torque rod. NOTE: Mallet/press may be needed to install the new bushing.
- 6. Press bushing inner sleeve into the installed bushing. Center sleeve inside the bushing so that both ends extend slightly past the sides of the bushing equally on both sides.
- Assemble the pivot connection with one wear washer on each side of the bushing. Inner sleeve must be flush with or extend slightly past the outside of the wear washers.
- 8. Torque pivot nut to specifications (500 ft-lb 678 N-m).
- 9. Reassemble suspension, if necessary. Torque components to specifications (Chart/ENG DWG).
- 10. Check/adjust wheel toe-in setting. The 2361000 suspension should have a positive toe-in between 1/32" and 3/32" (Next page).



## **Wheel-Toe Setting**

Wheel-toe is the relationship of the distance between the front of the tires and the distance between the rear of the tires on the same axle.



## Adjust the Wheel-Toe

- 1. Loosen clamps on both ends of the tie-rod. Twist the tie-rod forward/backward to move the front of the tires towards or away from each other (increase/decrease toe-in setting).
- 2. Continue rotating tie-rod until the proper toe-in setting is achieved.
- 3. Torque tie-rod clamps to 60-80 ft-lb (81-108 N-m).