

## Suspension Models Utilizing a 4 1/8" Narrow Rubber Bushing

### Primary Axle Trailer Suspension

- RAR-266 Overslung—23K Capacity
- RAR-266 Underslung (Low-Mt)—20K Capacity
- RAR-244-16K Underslung—16K Capacity

### Truck/Trailer Auxiliary Axle Suspension

- RCA-215
- RUL-245

### Air Ride Single Point Trailer Suspension

- RAR-254—50K Capacity

#### Notes and Cautions

This procedure uses two service notes:

"NOTE" Provides additional instructions/procedures to complete tasks and make sure the component functions properly.

**CAUTION** Indicates a hazardous situation/unsafe practice that could result in equipment damage and serious injury if not avoided.

## Vehicle Preparation

Park the vehicle on a level surface. Chock the wheels..

Raise the vehicle to a height that removes the load on the suspension. Support with jack stands.

Disconnect linkage from the height control valve, if equipped. Exhaust all air from the air system.

**CAUTION** Failure to properly chock the wheels, exhaust the air system and support the vehicle safely could allow vehicle/suspension movement that could result in serious injury.



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## Narrow Bushing Replacement Tool Procedure (Tool – #6100044)

### Disassemble the suspension

Remove wheels and tires, if necessary. Remove shock absorbers.

Take the pivot connections apart. Remove and discard pivot bolt, flat washer and pivot nut.

Inspect adjuster plate and alignment washer for wear/damage. Replace components if necessary.

**CAUTION** Do not reuse pivot hardware.

Rotate beam(s) down and away from frame. Inspect the pivot-bolt holes and wear washers for unusual wear/damage. Repair/replace components as needed.

### Tool Assembly for Bushing Removal

Verify the thrust bearing is installed in the flat, outside edge of the endcap. Inspect the tool cone tapered insert and the endcap for damage. Repair or replace components as needed.

Lubricate the Hex-Head Cap Screw (HHCS) and Thrust Bearing threads with supplied Pressure Lubricant (P/N 1980014).

Thread the flat washer, bearing collar and endcap onto the HHCS until the bearing collar and endcap rest against the washer on the HHCS head. Place the open end of the bushing tool cone onto the endcap (Fig 1).

NOTE: Failure to apply lubricant to the threads could result in decreased tool performance and reduce the life of the bushing tool.

### Bushing Removal

1. Push the HHCS through the installed bushing's inner sleeve until the tool cone tapered end is against the beam eye. Thread the plunger onto the HHCS until the bushing tool is held firmly against the beam (Fig 1).  
NOTE: The smaller, tapered end of the cone is placed against the beam eye for both removal and installation of the bushing.
2. Verify the tool cone is centered on the beam eye. Use a 1 5/16" socket on a 3/4"-drive impact wrench (1"-drive impact wrench recommended) to rotate the HHCS and pull the bushing into the tool cone.  
NOTE: A small amount of heat may be needed in some cases to break the bond between the rubber bushing and the beam eye.  
Do not overheat. Allow the beam to cool before installing new bushing.
3. Unscrew plunger and remove bushing tool from beam. Detach the tool cone from the endcap, remove bushing from the endcap and discard.

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### Narrow Bushing Removal

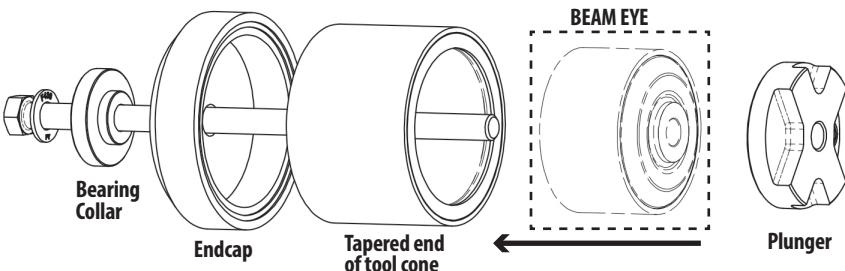


Figure 1.

## Narrow Bushing Replacement Tool Procedure (Tool – #6100044)

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### Tool Assembly for Bushing Install

Thread the flat washer, bearing collar and endcap onto the HHCS until bearing collar and endcap rest against the washer on the HHCS head.

### Bushing Installation

1. Use wire brush to clean debris /corrosion from the beam eye.
2. Liberally apply P80® lubricant or a soap solution to the inside of the beam eye, the outside of the new bushing and inside the tool cone. Insert new bushing into the open end of the tool cone.
3. Center the tapered end opening of the tool cone against the beam eye. Push the HHCS through the bushing inner sleeve from the opposite side of the beam until the endcap rests against the beam eye.
4. Thread the plunger onto the hex-head cap screw until tool cone is held firmly against the beam (Figure 2).

NOTE: The tapered end opening of the tool cone is placed against the beam eye for both removal and installation of the bushing.

5. Verify bushing tool cone is centered on the beam eye. Use a 1 5/16" socket and 3/4-drive impact wrench (1"-drive impact wrench recommended) to rotate screw and press bushing into the beam eye.
6. Remove bushing tool from the beam. Verify the new bushing is centered inside the beam. Realign bushing to center if necessary.

### Reassemble suspension

Rotate the beam(s) into the hanger(s). Assemble the pivot connection – alignment washer, adjuster plate, wear washers, shear-type pivot bolt, flat washer and flanged locknut.

NOTE: Do not lubricate pivot bolt/nut.

### Narrow Bushing Installation

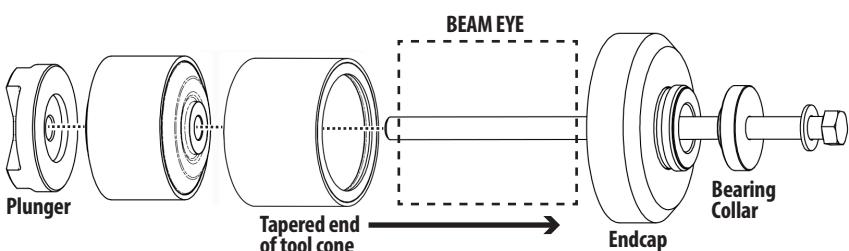


Figure 2.

Tighten locknut until adjuster plate pin is engaged and pivot connection hardware is snug against hanger. Do not apply final torque until axle alignment has been checked.

Connect height control kit linkage to the height control valve (if linkage has been disconnected). Inflate air springs.

Install wheels and tires (if removed). Raise vehicle and remove support stands. Lower vehicle to ground.

Verify the suspension ride height. Check the axle alignment. Realign if necessary.

Tighten pivot bolt with a 1" drive impact wrench and E-20 Torx® socket (Ridewell tool #6100054) until Torx head is sheared off.

Install shock absorbers.

**CAUTION** Failure to torque to specifications can result in suspension failure and voided warranty.

### 6100044 – Narrow Bushing Installation Tool Use with 4 1/8" narrow rubber bushing

No.	Part No.	Item Description
1	6100091	PLUNGER BUSH TOOL NARROW MACH'D
2	6100089	END CAP BUSHING TOOL ASY (DWG)
	1660009	BEARING, THRUST, 12-16K WESPORT
	6100090	END CAP BUSH TOOL 260 MACHINED
3	1130088	HHCS 7/8-6 ACME x 18.0 LG 12" THRD
4	6100092	CONE ASSY, BUSH INSTALL, NARROW
5	1120051	BRNG COLLAR BUSH TOOL
6	1160036	WASHER 7/8" F436 ZINC/COATED
—	1980014	EXTREME PRESSURE LUBE

