

Ridewell Suspension Models with 6 3/4" Wide-Cavity Bushing

- RAR-260 Hanger Mount – 25K/30K Capacity
- RAR-266 Overslung – 23K/25K/30K Capacity
- RAR-266 Underslung (Low-Mount) – 25K Capacity

Air Ride Single Point Suspension

- RAR-254 – 50K Capacity

Notes and Cautions

This instruction uses two types of service note definitions:

“NOTE” Provides additional instructions or procedures to complete tasks and make sure component functions properly.

CAUTION Indicates a hazardous situation or 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 to keep vehicle from moving.

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

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

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



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Wide-Cavity Bushing Installation Tool Procedure (P/N 6100051)

Disassemble the suspension

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

Take the pivot connection(s) apart. Discard the pivot bolt, flat washer and pivot nut. Inspect adjuster plate and alignment washer for wear/damage. Replace if necessary.

CAUTION Do not reuse pivot hardware.

Rotate beam(s) out of the hangers. Inspect the pivot-bolt holes and hanger surfaces for unusual wear/damage. Repair or replace the suspension components as needed.

Tool assembly for removal

Verify the thrust bearing is installed in the flat, outside edge of the endcap. Inspect the tool cone tapered insert and 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)

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

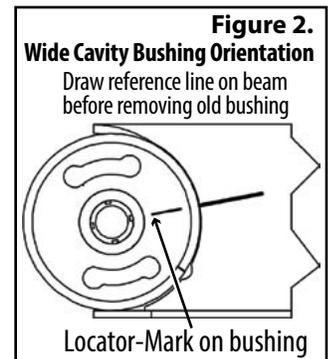
Thread the flat washer, bearing collar and endcap onto the HHCS until the bearing collar and endcap rest against the washer on the HHCS head. Place the open end of the bushing tool cone onto the endcap (Figure 1).

Bushing Removal

1. Draw/scribe a line on the beam using the raised locator mark on the installed bushing as reference (Figure 2).
2. Insert HHCS-end through bushing sleeve into the center opening of plunger. Center cone on the beam eye. Tighten screw until plunger is held firmly against the bushing.
3. Use 1 5/16" socket on a 3/4"-drive impact wrench (1"-drive wrench recommended) to rotate the screw and pull the bushing out of the beam eye into the cone.

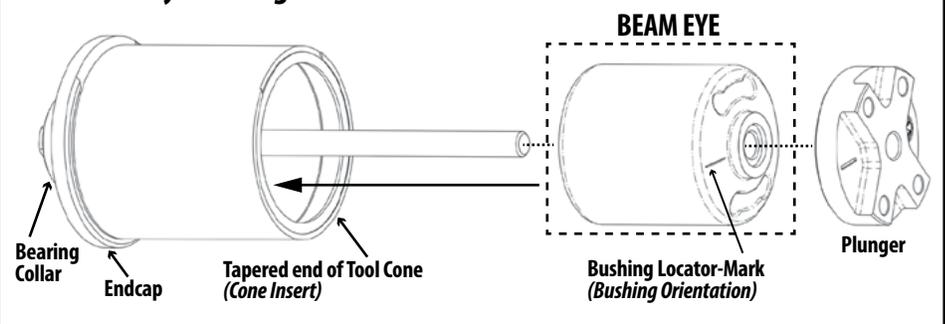
NOTE: In some cases, a small amount of heat may be required to break the bond between the bushing and the beam eye. Do not overheat. Allow beam to cool before installing bushing.

4. Disassemble the bushing tool. Remove old bushing from the bushing tool cone and discard.



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Wide-Cavity Bushing – Removal



Tool assembly for installation

Insert smooth end of Socket Head Cap Screw(s) into holes on the end of tool plunger. Tighten SHCS until socket head(s) is flush with the plunger edge. NOTE: Smooth end(s) should extend beyond inside edge of plunger.

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 (Fig 3).

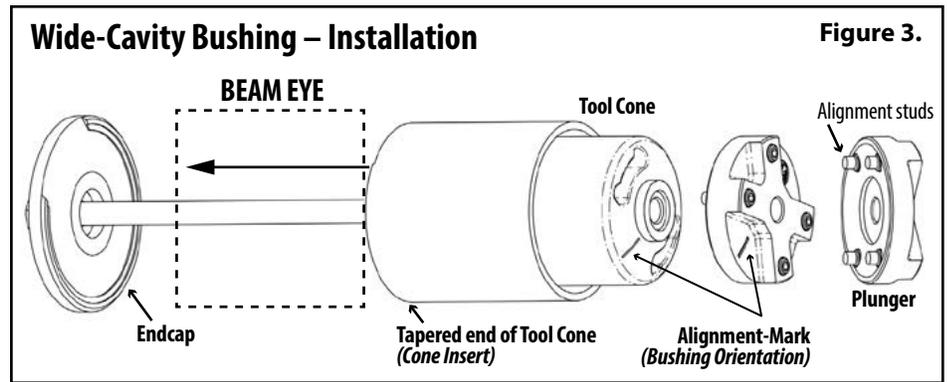
Bushing Installation

1. Use a wire brush to clean foreign debris/corrosion out of the beam eye.
2. Coat the inside of the beam eye, the outside of the new bushing, and the inside of tool cone with S.G. Type "M" Rubber Oil (P/N 1980008). NOTE: Do not substitute. Lubricant included in all bushing kits.
3. Insert new bushing into large end of tool cone. Verify locator-mark on the end of the bushing is visible.
4. Line up the bushing alignment mark on the plunger with the bushing locator-mark. Insert the four screws into the bushing cavity holes. Press the plunger firmly against the end of the bushing. NOTE: SHCS threads should not touch the bushing (Figure 3).
5. Align the plunger's bushing locator-mark with the line marked on the beam. Place the plunger/cone/bushing assembly onto the beam eye.
6. Insert the hex-head cap screw through the beam eye into the center hole of plunger. Rotate the screw until endcap rests against the beam.
7. Verify tool cone is centered on the beam eye. Use a 1 5/16" socket and 3/4-drive impact wrench (1"-drive wrench recommended) to rotate the hex-head cap screw and press new bushing into the beam eye.
8. Disassemble and remove bushing tool. Check placement to ensure bushing is centered in beam. Verify bushing locator-mark is aligned with marked line on the beam. Reinstall bushing if necessary.

Reassemble the suspension

Rotate the beams into hangers. Assemble pivot connection – alignment washer, adjuster plate, wear washers, shear-type pivot bolt, flat washer and locknut.

NOTE: Do not lubricate pivot bolt/nut. Tighten pivot nut until the adjuster plate pin is engaged and pivot connection is snug against the hanger. Do not apply final torque until the axle alignment has been checked.



Connect the height control valve linkage (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 suspension ride height. Check axle alignment. Realign if necessary.

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

Install shock absorbers.

CAUTION Failure to torque hardware to specifications can result in suspension failure/void the warranty.

6100051–Wide Cavity Bushing Tool Use with 6 3/4" wide-cavity rubber bushing

No.	Part No.	Item Description
1	6100088	(DWG) END CAP BUSH TOOL ASY
	6100086	END CAP,BUSH TOOL 260 MCH'D
	1660009	BRNG ASY T182S 12/16K THRUST
2	6100087	PLUNGER, BUSH TOOL 260 MCH'D
3	1130088	HHCS 7/8-6 ACMEx18.0LG 12"THR3D
4	6100083	CONE AND SLV ASY
5	1120051	BRNG COLLAR BUSH TOOL
6	1130087	SHCS 5/8-11x2"LG FULL DOG SET
7	1160036	WASH 7/8" F436 ZN/COATED
—	1980014	EXTREME PRESSURE LUBE

