

# TECHNICAL BULLETIN

**ATRO PARTS**  
ENGINEERED | DURABLE | RELIABLE  
MANUFACTURED IN ST. CLAIR, MISSOURI | U.S.A.

## INTRAAAX®/VANTRAAX® TRI-FUNCTIONAL BUSHING

### WHY CHOOSE PREMIUM ATRO PRODUCTS

ATRO has two bushing choices to replace the OEM #S-24691 Intraax/Vantraax trailer suspension bushing.

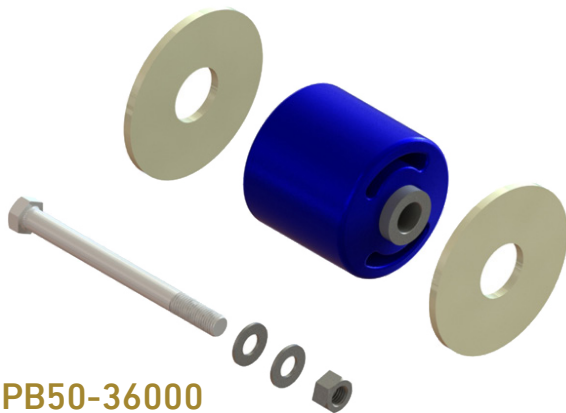
#### Both ATRO products offer these benefits:

- ATRO's polyurethane is impervious to chemical attack unlike rubber bushings
  - Oil & Grease
  - Calcium Chloride (Winter Salt Melt)
  - Citric Acid & Acid Based Cleaners
  - Ethylene Glycol
  - Gas, Kerosene & Diesel Oil
  - Many additional contaminants
- ATRO's polyurethane is 2-5 times stronger than rubber!

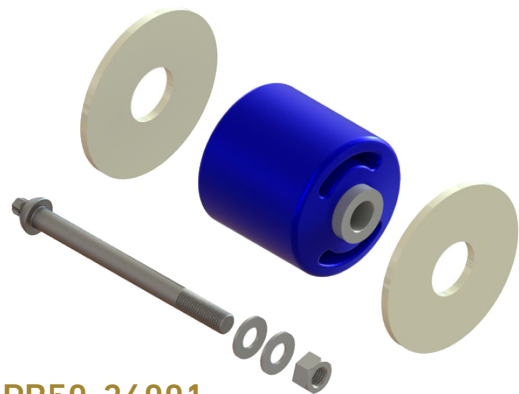
**RESULT:** ATRO Intraax Bushings last longer and are backed by a three year warranty

#### Tri-Functional Design Bushing (PB50-36000 & PB50-36001)

- The bushing has voids, similar to the OEM bushing.
- It's outside diameter (OD) 5 7/8" is similar to the rubber bushing's 6" OD.
- ATRO's bushing and the rubber bushing are compressed into the 5 1/2" ID beam hole.
- The ATRO offers the PT50-59307 installation tool, which can be used to install both ATRO's bushing and the rubber OEM bushing.



**PB50-36000**  
w/ Hex Head Bolt



**PB50-36001**  
w/ Shear Bolt

ATRO Part Number	Easy Install	Voids	Inner Pin Rotation	Bolt type	Torque
PB50-36000	No	Yes	No	Hex Head	500-550 ft. lb.
PB50-36001	No	Yes	No	Shear Bolt	Head snaps off at proper torque

TB002-071018rev01

**ATROBUSHING.COM | 1.800.325.6114**

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# ATRO POLYURETHANES

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## KEY FEATURES: *The ATRO Difference*

ATRO maintains 11 proprietary formulations, ATRO Polys, each having unique physical properties to optimize performance. Whether absorbing a shock or transferring energy, ATRO is engineered to function based on the demands of the part. ATRO provides polyurethane parts and solutions for heavy trucks.

## WHAT MAKES ATRO PARTS DIFFERENT ...

### *The Material*

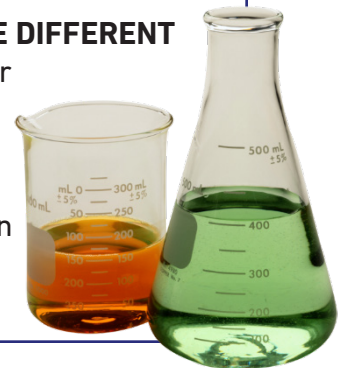


#### 11 PROPRIETARY ATRO POLY FORMULAS

Upon evaluation of the application and the purpose/function of the part, ATRO will determine which specifically formulated poly. ATRO meets or exceeds OE specs, matches or improves ride performance.

#### POLYURETHANES ARE DIFFERENT

- Ranging Durometer
- Tensile Strength
- Tear Strength
- Compression Set
- Ultimate Elongation
- Rebound



### *ATRO Polyurethane is better than Rubber*



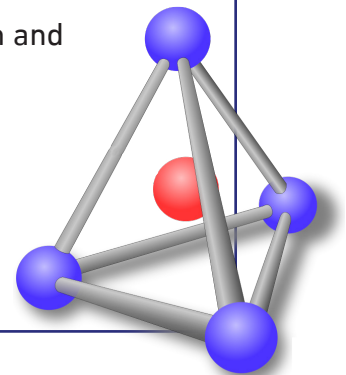
#### STRONGER MATERIAL

- ATRO Polys are specifically engineered to the function of the part providing added durability and reliability to the suspension.
- ATRO Polys absorb energy, some deflect energy. Some maintain higher rebound or greater compression. Each part engineered for purpose and functionality.
- Rubber primarily maintains one set of properties.
- ATRO Polys maintains at least 2x or greater tensile and tear strength and 2x the elongation vs. rubber.



#### CHEMICALLY RESISTANT

- ATRO Polys are impervious to oil, grease, brine, cleaning solvents, hydraulic fluids and diesel fuel.
- Rubber deteriorates in similar conditions.



CELEBRATING 30 YEARS  
**ATRO**  
POLYURETHANE • SOLUTIONS

POLYURETHANE PARTS | SOLUTIONS FOR HEAVY TRUCKS

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