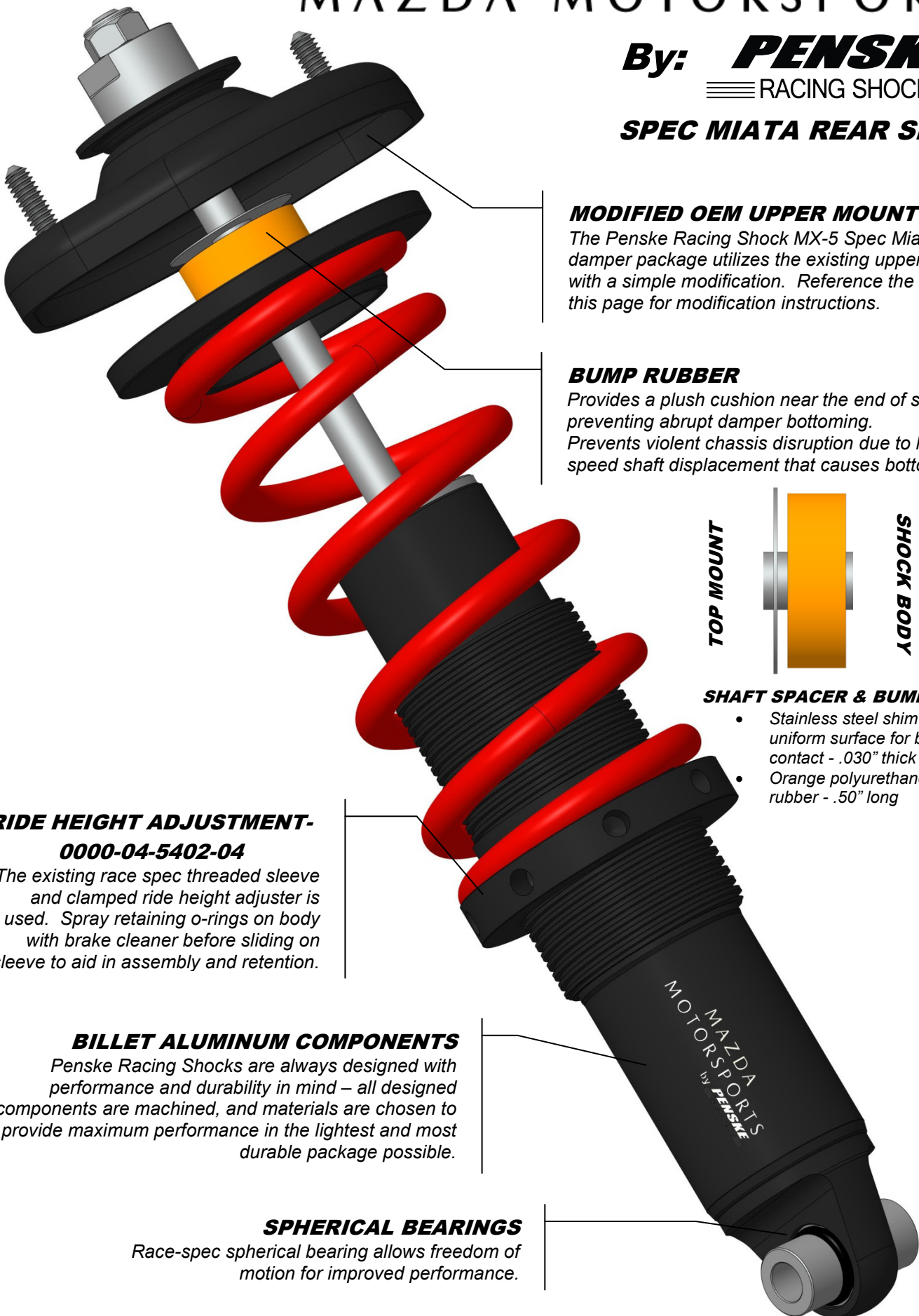


# MAZDA MOTORSPORTS

By: **PENSKE**  
RACING SHOCKS

## SPEC MIATA REAR SHOCK

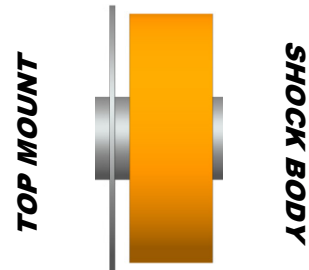


### MODIFIED OEM UPPER MOUNT

The Penske Racing Shock MX-5 Spec Miata damper package utilizes the existing upper mount with a simple modification. Reference the back of this page for modification instructions.

### BUMP RUBBER

Provides a plush cushion near the end of stroke, preventing abrupt damper bottoming. Prevents violent chassis disruption due to large high speed shaft displacement that causes bottoming.



### SHAFT SPACER & BUMP RUBBER:

- Stainless steel shim provides uniform surface for bump rubber contact - .030" thick
- Orange polyurethane bump rubber - .50" long

### RIDE HEIGHT ADJUSTMENT- 0000-04-5402-04

The existing race spec threaded sleeve and clamped ride height adjuster is used. Spray retaining o-rings on body with brake cleaner before sliding on sleeve to aid in assembly and retention.

### BILLET ALUMINUM COMPONENTS

Penske Racing Shocks are always designed with performance and durability in mind – all designed components are machined, and materials are chosen to provide maximum performance in the lightest and most durable package possible.

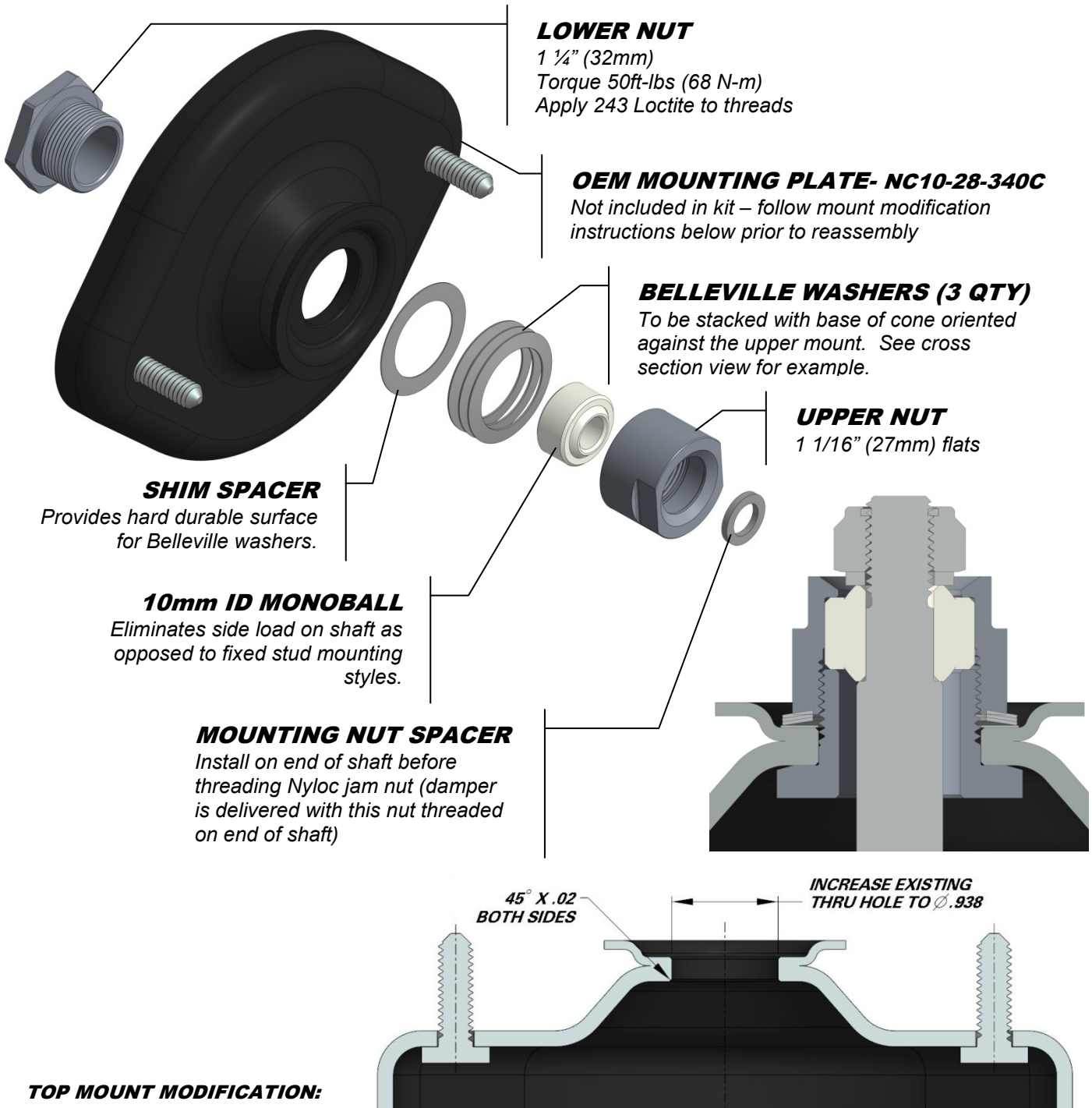
### SPHERICAL BEARINGS

Race-spec spherical bearing allows freedom of motion for improved performance.

# MAZDA MOTORSPORTS

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## MX-5 SPEC MIATA REAR SHOCK



### LOWER NUT

1 1/4" (32mm)  
Torque 50ft-lbs (68 N-m)  
Apply 243 Loctite to threads

### OEM MOUNTING PLATE- NC10-28-340C

Not included in kit – follow mount modification instructions below prior to reassembly

### BELLEVILLE WASHERS (3 QTY)

To be stacked with base of cone oriented against the upper mount. See cross section view for example.

### UPPER NUT

1 1/16" (27mm) flats

### SHIM SPACER

Provides hard durable surface for Belleville washers.

### 10mm ID MONOBALL

Eliminates side load on shaft as opposed to fixed stud mounting styles.

### MOUNTING NUT SPACER

Install on end of shaft before threading Nyloc jam nut (damper is delivered with this nut threaded on end of shaft)

45° X .02  
BOTH SIDES

INCREASE EXISTING  
THRU HOLE TO Ø.938

### TOP MOUNT MODIFICATION:

1. Remove mount from vehicle
2. Secure mount to table of drill press/mill
3. Using high speed step drill bit & cutting fluid, enlarge existing thru hole to Ø.938 (15/16"). (Step drill can be purchased from any industrial supplier such as McMaster-Carr, MSC, Grainger, etc.)
4. Chamfer/deburr hole edges
5. Assemble mounting components as specified above
6. Re-install into vehicle

**PENSKE**

RACING SHOCKS

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