

# MAZDA MOTORSPORTS

**By: *PENSKE***  
RACING SHOCKS

## **MX-5 ND SINGLE-ADJUST FRONT SHOCK**

**MAZDA P/N: 0000-04-5650**

### **MODIFIED OEM UPPER MOUNT**

The Penske Racing Shocks MX-5 ND Single-adjust damper package utilizes the existing upper mount with a simple modification. Reference the back of this page for modification instructions.

### **BUMP RUBBER**

Provides a cushion near the end of stroke, preventing abrupt damper bottoming.

### **SPRING PACKAGE**

Spring hardware is for use with  $\varnothing$  2.25" ID springs (Sold separately)

### **RIDE HEIGHT ADJUSTMENT**

Provides built-in Ride Height adjustment to the body of the shock  
Knurled locking collar provides positive, tool free adjustment

### **BILLET ALUMINUM COMPONENTS**

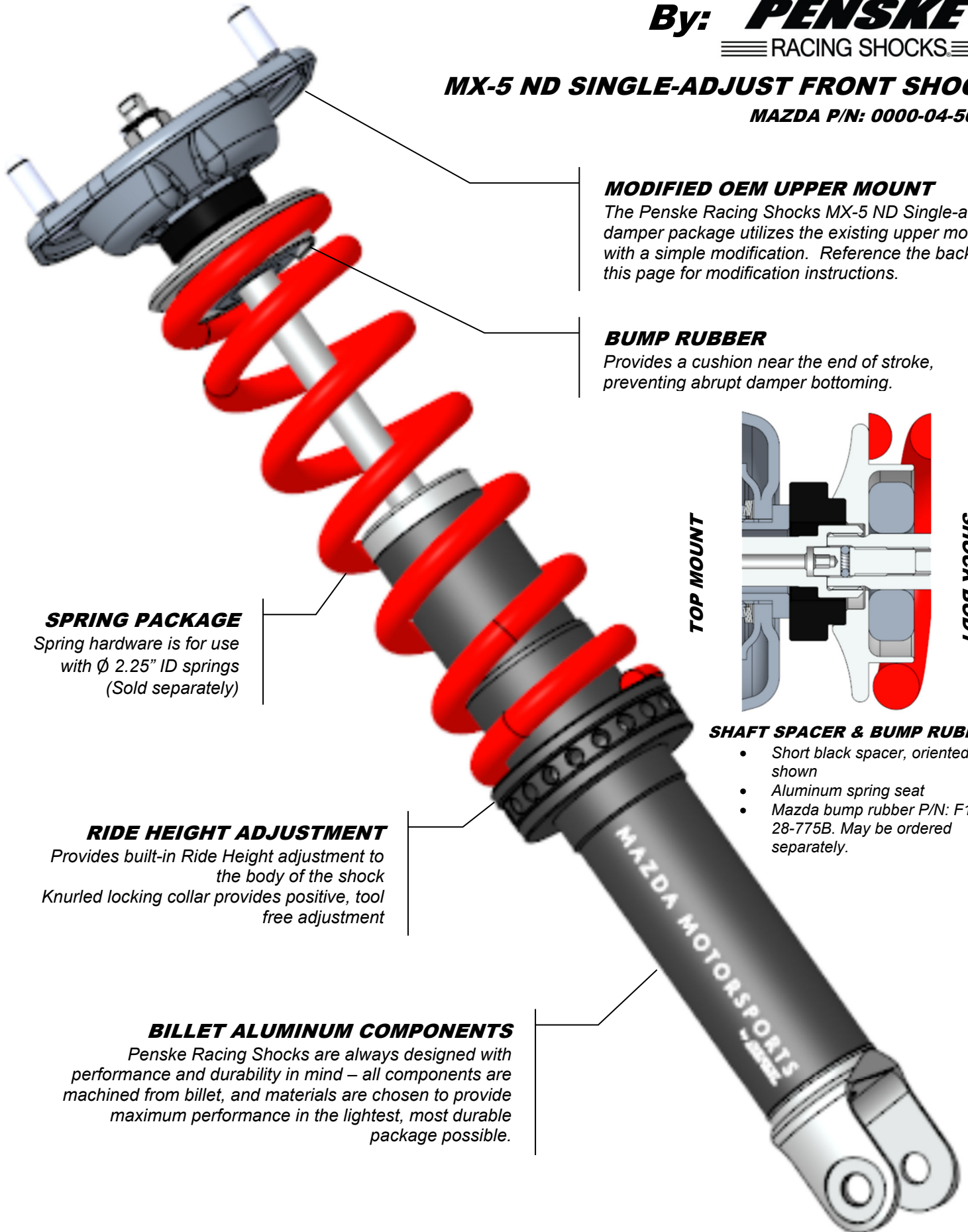
Penske Racing Shocks are always designed with performance and durability in mind – all components are machined from billet, and materials are chosen to provide maximum performance in the lightest, most durable package possible.

TOP MOUNT

SHOCK BODY

### **SHAFT SPACER & BUMP RUBBER:**

- Short black spacer, oriented as shown
- Aluminum spring seat
- Mazda bump rubber P/N: F151-28-775B. May be ordered separately.



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/// RACING SHOCKS ///

## MX-5 ND SINGLE-ADJUST FRONT SHOCK

(MOUNTING KIT INSTRUCTIONS)

MAZDA P/N: 0000-04-5677

(kit includes front and rear)

### LOWER NUT

1 ¼" (32mm)

Torque 50ft-lbs (68 N-m)

Apply 243 Loctite to threads

### OEM MOUNTING PLATE- N243-34-340

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

### BELLEVILLE WASHERS (4 QTY)

To be stacked with base of cone oriented against the upper mount. See cross section view for example. Qty may need to be adjusted to avoid free play.

### UPPER NUT

1 1/16" (27mm) flats

### SHIM SPACER

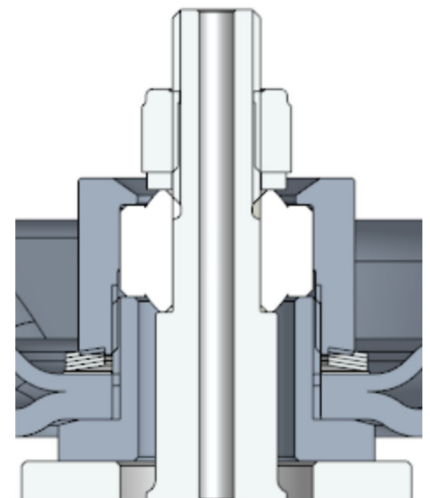
Provides hard durable surface for Belleville washers

### 10mm ID MONOBALL

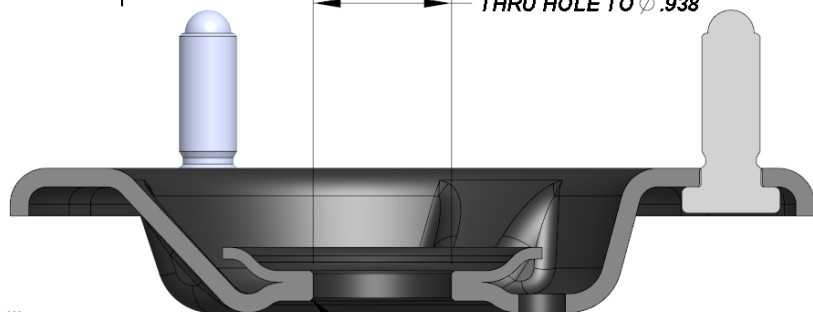
Allows for smooth, accurate misalignment as opposed to rubber mounted stud mounting

### MOUNTING NUT SPACER

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



INCREASE EXISTING THRU HOLE TO Ø.938



45° x .02  
BOTH SIDES

### 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

# MAZDA MOTORSPORTS

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RACING SHOCKS

## **MX-5 ND SINGLE-ADJUST REAR SHOCK**

**MAZDA P/N: 0000-04-5660**

### **MODIFIED OEM UPPER MOUNT**

The Penske Racing Shocks MX-5 ND Single-adjust damper package utilizes the existing upper mount with a simple modification. Reference the back of this page for modification instructions.

### **BUMP RUBBER**

Provides a cushion near the end of stroke, preventing abrupt damper bottoming.

### **SPRING PACKAGE**

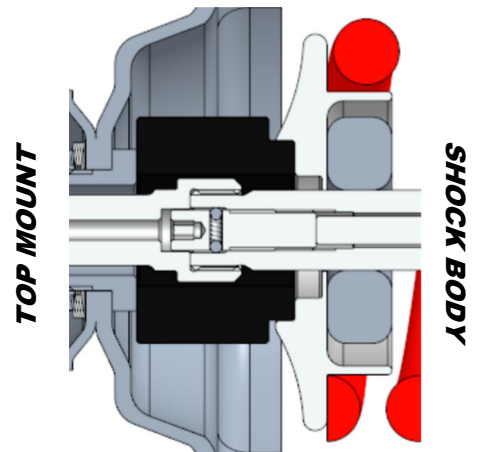
Spring hardware is for use with  $\varnothing$  2.25" ID springs (Sold separately)

### **RIDE HEIGHT ADJUSTMENT**

Provides built-in Ride Height adjustment to the body of the shock  
Knurled locking collar provides positive, tool free adjustment

### **BILLET ALUMINUM COMPONENTS**

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



### **SHAFT SPACER & BUMP RUBBER:**

- Long black spacer, oriented as shown
- Aluminum spring seat
- Mazda bump rubber P/N: F151-28-775B. May be ordered separately.

# MAZDA MOTORSPORTS

**By: PENSKE**

≡ RACING SHOCKS ≡

## MX-5 ND SINGLE-ADJUST REAR SHOCK

(MOUNTING KIT INSTRUCTIONS)

MAZDA P/N: 0000-04-5677

(kit includes front and rear)

### LOWER NUT

1 1/4" (32mm)

Torque 50ft-lbs (68 N-m)

Apply 243 Loctite to threads

### OEM MOUNTING PLATE- N243-28-340A

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

### BELLEVILLE WASHERS (4 QTY)

To be stacked with base of cone oriented against the upper mount. See cross section view for example. Qty may need to be adjusted to avoid free play.

### UPPER NUT

1 1/16" (27mm) flats

### SHIM SPACER

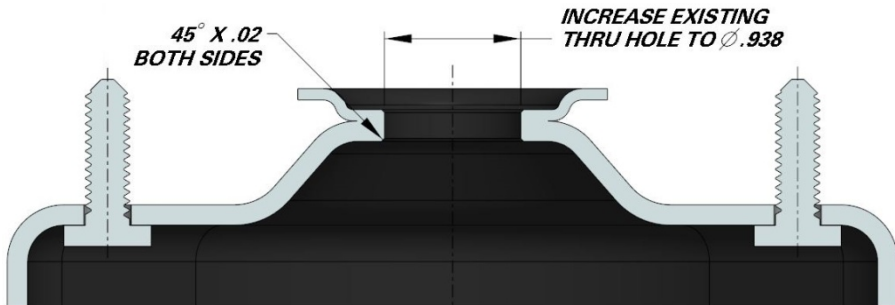
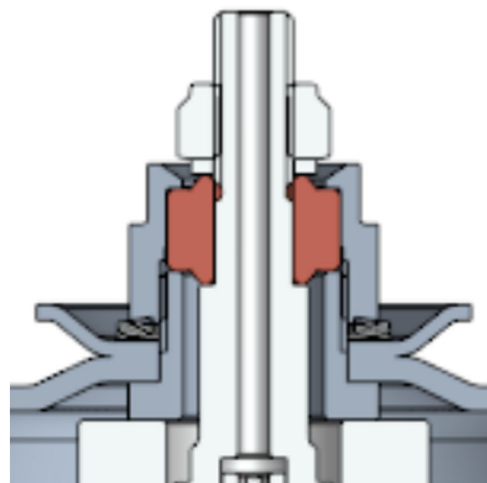
Provides hard durable surface for Belleville washers

### 10mm ID MONOBALL

Allows for smooth, accurate misalignment as opposed to rubber mounted stud mounting

### MOUNTING NUT SPACER

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



### TOP MOUNT MODIFICATION:

7. Remove mount from vehicle
8. Secure mount to table of drill press/mill
9. 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.)
10. Chamfer/deburr hole edges
11. Assemble mounting components as specified above
12. Re-install into vehicle

**PENSKE**

≡ RACING SHOCKS ≡

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