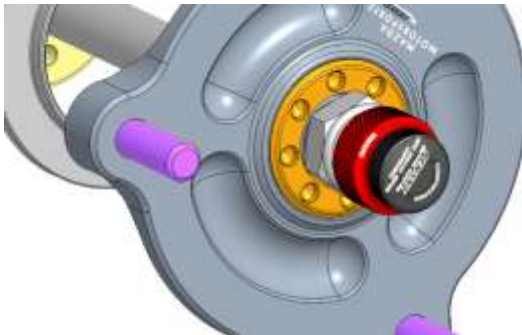


## Mazda MX-5 Cup Car Technical Service Bulletin # 2024-11-25

### REQUIRED PENSKE DAMPERS

**This TSB describes:** The New PENSKE damper package REQUIRED for the 2025 Mazda MX-5 Cup Competition.

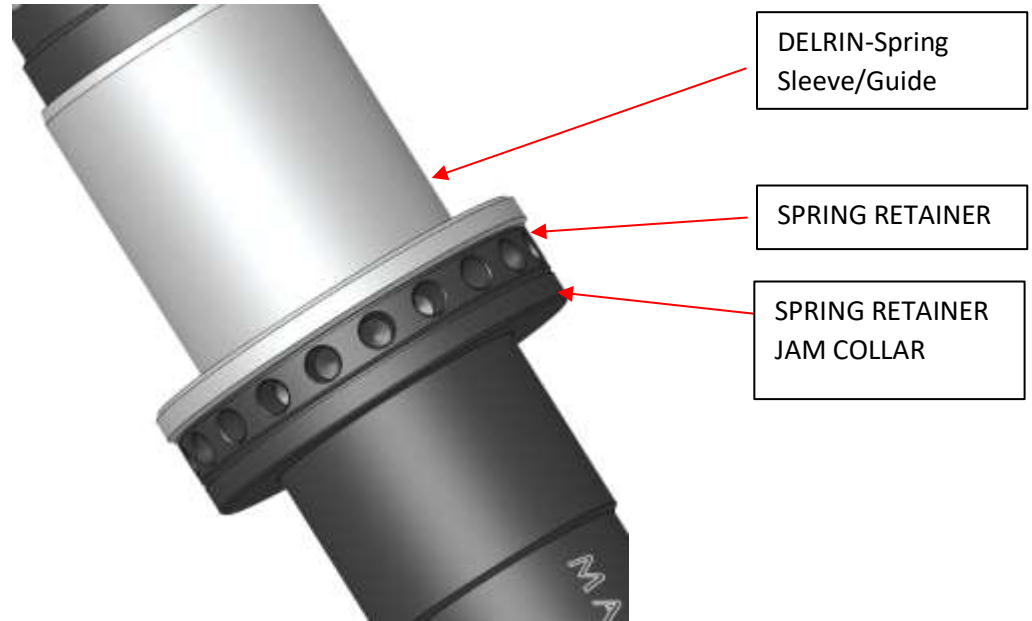
- This TSB will help teams transition onto the New PENSKE damper.
- Parts Required for conversion:
  - 2 x Front Dampers - Mazda Part Number 0000-04-5630
  - 2 x Rear Dampers - Mazda Part Number 0000-04-5640
  - 1 x Front Mount Kit – Mazda Part Number 0000-04-5636
  - 1 x Rear Mount Kit – Mazda Part Number 0000-04-5646
- The Penske damper has Low Speed adjustments 1 through 12 for Compression Bleed and Rebound Bleed.
  - Clockwise is “HARDER/STIFFER” setting and Counterclockwise is “SOFTER”
  - There is one revolution on each knob which = 12 total clicks. While you only have one revolution/12 clicks of adjustment, due to the design, you will have more revolutions/clicks, although they will not affect shock performance after 12 clicks out from full hard.
  - Red = Rebound / Black = Bump
  - When setting rebound, the bump knob WILL turn with the rebound knob.
  - When setting a bump, the rebound knob will NOT turn with the bump knob.
  - The low-speed adjustment is your most effective adjustment for driver feel and balance. Typically, 2-3 clicks will be a noticeable difference in feel.



- The Damper has High Speed adjustment Hard or Soft
  - We recommend setting the High-Speed adjuster at “SOFT”. This setting was used most in initial performance testing.
  - If driver wants more platform or more stability, you can run the setting at “HARD”. Note, may not be as compliant over curbs.



- We recommend starting in the center, 6 Compression Bleed / 6 Rebound Bleed and Soft on the High Speed if the initial feeling is too Soft then adjust the High Speed to Hard and adjust from there.
- The spring perches are manufactured for adjustment and locking.



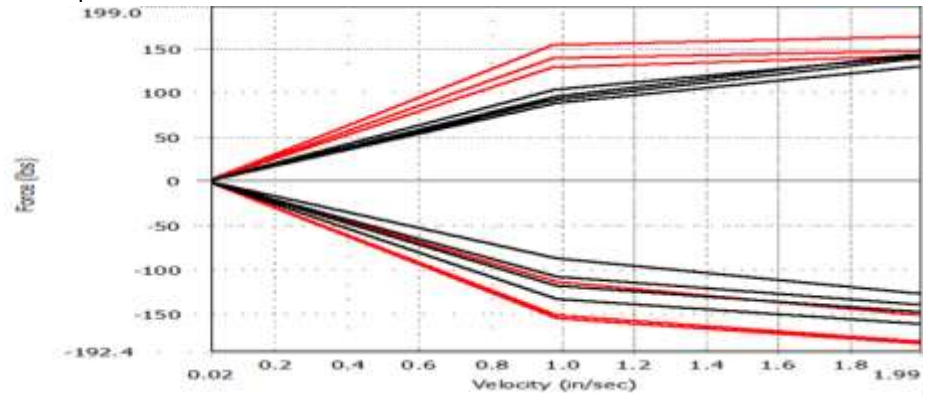
- The Damper is sealed with a tamper proof label. **Evidence of removal or tampering with these seals will cause disqualification and or fines in Mazda MX-5 Cup Competition.**



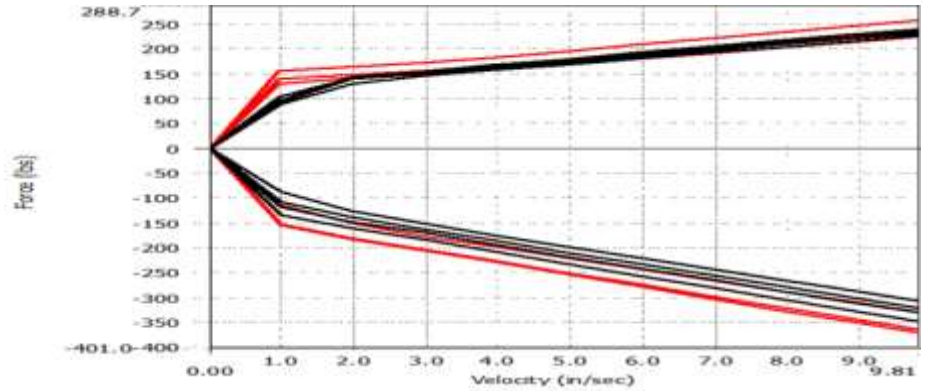
- Service/Rebuild work may only be done through PENSKE.
  - Contact Information:
    - Penske Racing Shocks  
150 Franklin St. Reading PA 19602  
610-375-6180  
Aaron Lambert – [ajl@penskeshocks.com](mailto:ajl@penskeshocks.com)  
Jerry Wittig – [jerrywittig@penskeshocks.com](mailto:jerrywittig@penskeshocks.com)  
Steve Hort – [stephenhorn@penskeshocks.com](mailto:stephenhorn@penskeshocks.com)

- Typical Force Vs. Velocity Front Damper

F4 194415 HS-2 L5C-0  
 RB-0.pvp  
 F4 194415 HS-2 L5C-3  
 RB-3.pvp  
 F4 194415 HS-2 L5C-12  
 RB-12.pvp  
 F4 194415 HS-6 L5C-0  
 RB-0.pvp  
 F4 194415 HS-6 L5C-3  
 RB-3.pvp  
 F4 194415 HS-6 L5C-6  
 RB-6.pvp  
 F4 194415 HS-6 L5C-12  
 RB-12.pvp

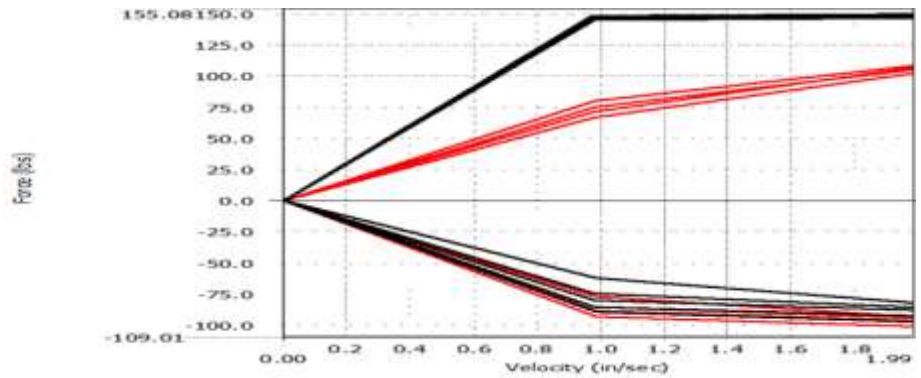


F4 194415 HS-2 L5C-0  
 RB-0.pvp  
 F4 194415 HS-2 L5C-3  
 RB-3.pvp  
 F4 194415 HS-2 L5C-12  
 RB-12.pvp  
 F4 194415 HS-6 L5C-0  
 RB-0.pvp  
 F4 194415 HS-6 L5C-3  
 RB-3.pvp  
 F4 194415 HS-6 L5C-6  
 RB-6.pvp  
 F4 194415 HS-6 L5C-12  
 RB-12.pvp

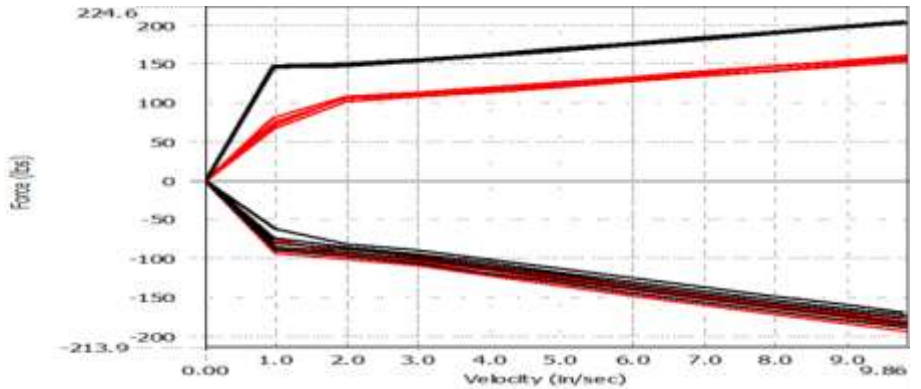


- Typical Force Vs. Velocity Rear Damper

R4 194415 HS-6 L5C-0  
 RB-0.pvp  
 R4 194415 HS-6 L5C-3  
 RB-3.pvp  
 R4 194415 HS-6 L5C-6  
 RB-6.pvp  
 R4 194415 HS-6 L5C-9  
 RB-9.pvp  
 R4 194415 HS-2 L5C-0  
 RB-12.pvp  
 R4 194415 HS-2 L5C-0  
 RB-0.pvp  
 R4 194415 HS-2 L5C-0  
 RB-3.pvp  
 R4 194415 HS-2 L5C-0  
 RB-6.pvp  
 R4 194415 HS-2 L5C-0  
 RB-9.pvp



R4 194415 HS-6 L5C-0  
 RB-0.pvp  
 R4 194415 HS-6 L5C-3  
 RB-3.pvp  
 R4 194415 HS-6 L5C-6  
 RB-6.pvp  
 R4 194415 HS-6 L5C-9  
 RB-9.pvp  
 R4 194415 HS-2 L5C-0  
 RB-12.pvp  
 R4 194415 HS-2 L5C-0  
 RB-0.pvp  
 R4 194415 HS-2 L5C-0  
 RB-3.pvp  
 R4 194415 HS-2 L5C-0  
 RB-6.pvp  
 R4 194415 HS-2 L5C-0  
 RB-9.pvp

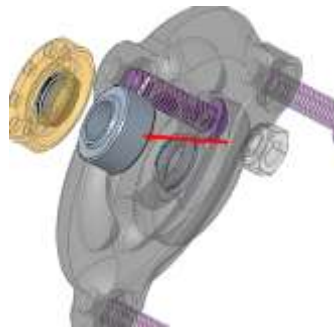


- Spare Parts

- Spring Spacer 0000-04-5638



- Upper Bearing 0000-04-5699



- The Multimatic DSSV damper package ( P/N: 0000-04-5616 & 0000-04-5617 ) and the new Penske damper package (0000-04-5630 & 0000-04-5640 ) serve as the homologated shock options for all series outside the Mazda MX-5 Cup series. Moving forward, the Mazda MX-5 Cup Series will exclusively utilize the new Penske Damper Package described above.
- For teams needing to send their Multimatic DSSV Dampers ( P/N: 0000-04-5616 & 0000-04-5617 ) for inspection or repair, please note the updated shipping address: 909 Holly Lynne Dr, Bethel Park, PA 15102. The primary contact is Ryan Howell, who can be reached via email at [rhowell@multimatic.com](mailto:rhowell@multimatic.com).

If you have any questions, please contact us at the information below:

Ashli Richardson

☎ 386-256-7021

✉ [ASHLI@FLISPERFORMANCE.COM](mailto:ASHLI@FLISPERFORMANCE.COM)

🌐 [WWW.FLISPERFORMANCE.COM](http://WWW.FLISPERFORMANCE.COM)

📍 106 ANITA AVE  
DAYTONA BEACH, FL  
32114



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