

JRZ[®]

SUSPENSION ENGINEERING



RS Line

Comfortable for the street and superb handling on track

Motorsport Line

Professional racing, providing the formula for a winning car

Armored Line

Gives back comfort and increases handling for your armored car



WHY JRZ?

The JRZ damper design comes from 60 years of experience in Research and Development of suspension and damper design for racing, rally, off road, armored and industrial applications.

The approach of the JRZ design philosophy is completely different from other damper manufacturers:

“Emphasis is on controlling the un-sprung mass”

This is achieved by:

- Large fluid displacement with the use of large diameter piston rod.
- Lifting force of shock-absorber by using high nitrogen pressure.
- Compression damping with unique adjustable valving system in canister.
- Large piston, with large diameter non preloaded deflective disc valves.
- High flow return valve for quick refilling of the working cylinder.
- Gas volume is selected in a way that the fluctuating gas volume and the temperature have little effect on the increase of pressure.

This results in:

- Improved handling
- Reduced tyre wear
- More traction
- Better comfort level
- Better stability of vehicle body
- Increased lifetime of damper

RENNSPEC

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THE JRZ RS LINE

JRZ Suspension Engineering brings over 60 years of experience in development and production of Motorsport dampers. Everything is manufactured with the finest CNC machines and CM measurement platforms.

To find the best handling of a race car, you are at the extremes of performance. The conditions vary from track to track and weather conditions. The large adjustability of the JRZ adjustment systems makes it possible to find the perfect setup in every condition.

To give you the possibility to find the extremes for your vehicle, JRZ used the gained knowledge from racing and developed the JRZ RS line. The car can be set up comfortable for street use but can also be set up for superb handling on track.

With the JRZ RS line there is no compromise, you get both!

Manufactured, measured and tested on the same production line as the Motorsport dampers, all dampers are hand built in the Netherlands, individually tested and matched per application to ensure the highest possible quality.



mode carbon

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b|b|i
AUTOMOTIVE



JRZ RS TOURING kit

THE JRZ RS TOURING KIT

The JRZ RS TOURING is the perfect upgrade of your vehicle for street and track day use. The TOURING kit fits OE topmounts to minimize road noise, vibrations and harshness.

The most advanced bolt on set for high performance driving, comfort and daily use in its class.

JRZ RS TOURING FEATURES:

- Use of OE top mounts
- Lowering springs (fixed springrates)
- Height adjustable
- Bump stops
- Dust boots
- Special designed noise isolation mounts
- Valved for comfort and control



Silentblock



Fits OE topmounts

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JRZ RS SPORT kit

THE JRZ RS SPORT KIT

The JRZ RS SPORT is the perfect upgrade on your vehicle for track and street use. With spherical bearing top mounting plates to get optimal performance on track.

The JRZ RS SPORT package is designed for maximum performance, feel and adjustment.

JRZ RS SPORT FEATURES:

- JRZ topmounts
- Spherical bearing top mounts
- Linear main & tenderspring (custom)
- Height adjustable
- Bump stops
- Dust boots
- Spherical bearings in damper eyelets
- Valved for more chassis control and performance



Spherical bearing



JRZ topmounts

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UMBRELLA
auto design



Guide construction

The new shaft bearing construction allows the damper to live a long life in between service without performance fade. Specially designed for longevity and rebuildability.



Bump stops and Dust boots

To further increase service life and safe operating ranges, special designed bump stops and dust boots are included.



Valving design

The unique compression blow off system damps the unsprung mass resulting in superb handling characteristics to be achieved. The JRZ RS is built on the same line as our motorsport products.



Strut Coating

Collaborating with a top tier coating firm, JRZ offers cutting edge technology to allow extremely high corrosion resistance in steel strut applications.



Anodized Dampers

Our aluminum dampers are anodized to protect it from corrosion and to give it that distinct JRZ RS look.



CNC machining

The JRZ RS line dampers use CNC machined internals and top mounts that allow precise damping characteristics to be achieved.

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JRZ[®] RS ONE

SUSPENSION ENGINEERING



CARNINJA 7 TED7

Single adjustable

- Preset compression setting
- 24 clicks damping adjustable
- Ride height adjustable

Valving design

The unique compression blow off system damps the unspung mass resulting in superb handling.

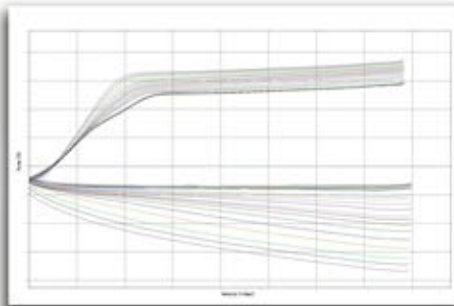


Touring kit

- Fits OE top mounts
- Lowering springs
- Special designed noise isolation mounts
- Valved for comfort and control

Large adjustment range

The suspension allows adjustment between smooth street use and aggressive track use. Below you can see the force / velocity graph of a typical JRZ RS ONE.



Sport kit

- JRZ top mounts
- Linear (custom) springs
- Spherical bearings
- Valved for chassis control and performance



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JRZ[®] RS TWO

SUSPENSION ENGINEERING



Double adjustable

- Adjustable compression setting
14 clicks strut applications
8 clicks damper applications
- Adjustable rebound damping
24 clicks
- Ride height adjustable

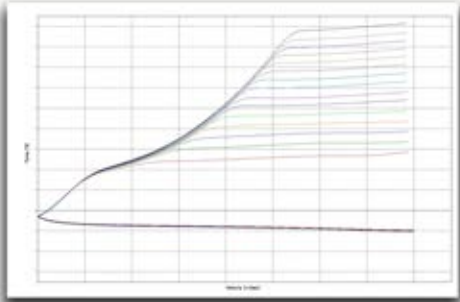
Large adjustment range

The suspension allows adjustment between smooth street use and aggressive track use. Below you can see the force / displacement graph of a typical JRZ RS TWO.

Valving design

The unique compression blow off system damps the unspung mass resulting in superb handling.

Compression graph



Touring kit

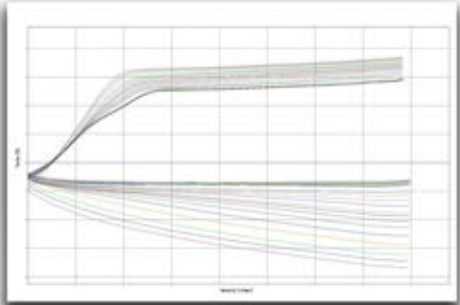
- Fits OE top mounts
- Lowering springs
- Special designed noise isolation mounts
- Valved for comfort and control

Sport kit

- JRZ top mounts
- Linear (custom) springs
- Spherical bearings
- Valved for chassis control and performance



Rebound graph



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 @rc_onthefly #Torque88USA

Double adjustable

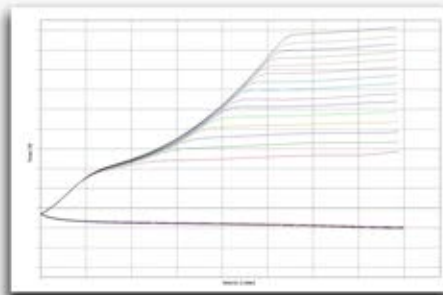
- external reservoir

- Adjustable compression setting
 - 14 clicks
- Adjustable rebound damping
 - 24 clicks
- Ride height adjustable
- Gas pressure adjustable (nitrogen)

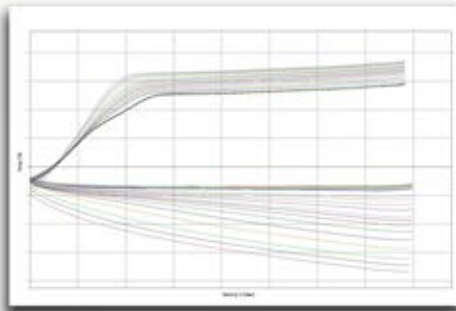
Large adjustment range

The suspension allows adjustment between smooth street use and aggressive track use. Below you can see the force / displacement graph of a typical JRZ RS PRO.

Compression graph

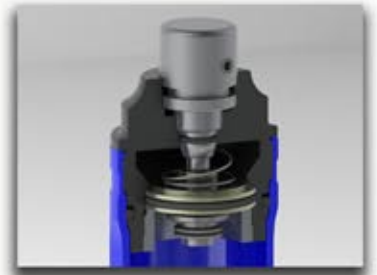


Rebound graph



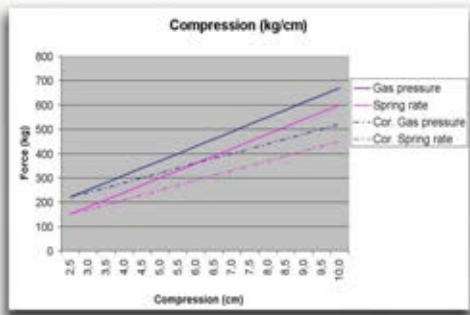
Valving design

The unique compression blow off system damps the unspung mass resulting in superb handling.



Adjustable gas pressure

The gas pressure creates a lifting force. This lifting force works over the complete stroke, without adding spring rate to the system. The gas pressure helps the tires contact patch with the road, providing better traction and grip.



Sport kit

- JRZ top mounts
- Linear (custom) springs
- Spherical bearings
- Valved for chassis control and performance



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JRZ cancellation kit

When upgrading your suspension on a vehicle with electronic damper control it could cause trouble codes. The JRZ Cancellation kit prevents these trouble codes appearing on your dashboard or when you do a diagnostic check of the ECU.

Available for:

Make	Model
BMW	F80/F82 F30
Ford	Focus RS (2016-)
Lamborghini	Huracan
Porsche	991 981



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CONSULTING

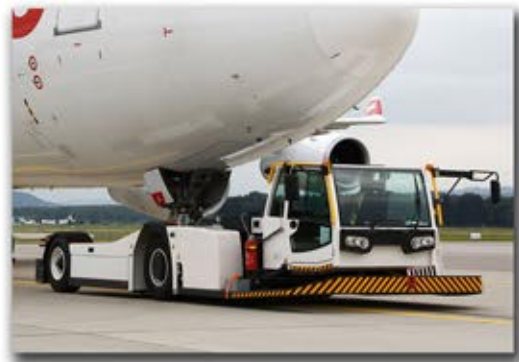
Based on our many years of experience in suspension and damping design, using the most advanced 3D design techniques, we can identify and offer solutions to any suspension problem.

Projects can vary from special made one off suspensions for professional racing teams to larger projects involving production for series. JRZ Suspension Engineering provides solutions for any kind of damping needs.

JRZ offers a complete design and developed package for the most demanding applications. JRZ's specialism is making the best solution, working together with all the other components in the car.

This expertise can be used in any field, it does not only apply to racing.

Our engineering staff offers an unique damping / suspension development service.



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THE JRZ MOTORSPORT LINE

JRZ Suspension Engineering brings over 60 years of experience in development and production of Motorsport dampers. Everything is manufactured with the finest CNC machines and CM measurement platforms.

Racing is a professional, fast and demanding world. The industry offering parts and components to this market have to be alert and continuously update the design and performance of their products. Suspension design is one of the major factors among the many other components used in a race car for good handling and a winning car.

Vehicle design, constructional integrity, choice of tyres, differential settings, suspension and geometry, driver input are some of the parameters which are of the highest importance for a successful team effort. JRZ offers a complete design and developed packages for the most demanding applications.

JRZ's specialty is making the best solution, working together with all the other components in the car.



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JRZ 11 SERIES

SUSPENSION ENGINEERING

11 Series

Double adjustable

- Rebound adjustment independent from compression
- Fully useable adjustment range
- Fine yet noticeable change per click
- 14 clicks compression
- 24 clicks rebound
- Smooth, linear piston
- High volume canister
- Adjustable gas pressure

JRZ 12 SERIES

SUSPENSION ENGINEERING

12 Series

Triple adjustable

- Rebound adjustment independent from compression
- Fully useable adjustment range
- Fine yet noticeable change per click
- 10 clicks low speed compression
- 19 clicks high speed compression
- 24 clicks rebound
- Smooth, linear piston
- High volume canister
- Adjustable gas pressure

JRZ 14 SERIES

SUSPENSION ENGINEERING

14 Series

Quadruple adjustable

- Rebound adjustment independent from compression
- Fully useable adjustment range
- Fine yet noticeable change per click
- 10 clicks low speed compression
- 19 clicks high speed compression
- 8 clicks low speed rebound
- 15 clicks high speed rebound
- Smooth, linear piston
- High volume canister
- Adjustable gas pressure

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JRZ[®] 11 SERIES

SUSPENSION ENGINEERING



JRZ 11 31

Double adjustable

- Rebound adjustment independent from compression
- Large adjustment range
 - 14 clicks compression
 - 24 clicks rebound
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 11 32

Double adjustable

- Identical features as the JRZ 11 31
- Stronger strut construction
- Increased oil flow due to bigger pistonrod
- Increased lifting force
- Less operation friction
- More direct damping by smallest movement of suspension



JRZ 11 33

Double adjustable

- Identical features as the JRZ 11 32
- Inverted strut assembly, strongest strut construction
- Reduced radial loading on piston



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JRZ[®] 11 SERIES

SUSPENSION ENGINEERING



JRZ 11 51

Double adjustable

- 50 DA shaft.
- Rebound adjustment completely independent from compression
- Large adjustment range
 - 27 clicks compression on shaft
 - 27 clicks rebound on shaft
- No knob on canister
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 11 52

Double adjustable

- Identical features as the JRZ 11 51
- Stronger strut construction
- Increased oil flow due to bigger pistonrod
- Increased lifting force
- Less operation friction
- More direct damping by smallest movement of suspension



JRZ 11 53

Double adjustable

- Identical features as the JRZ 11 52
- Inverted strut assembly, strongest strut construction
- Reduced radial loading on piston



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JRZ[®] 12 SERIES

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JRZ 12 31

Triple adjustable

- Rebound adjustment independent from compression
- Large adjustment range
 - 10 clicks low speed compression
 - 19 clicks high speed compression
 - 24 clicks rebound
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 12 32

Triple adjustable

- Identical features as the JRZ 12 31
- Stronger strut construction
- Increased oil flow due to bigger pistonrod
- Increased lifting force
- Less operation friction
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JRZ 12 33

Triple adjustable

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- Reduced radial loading on piston



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JRZ[®] 12 SERIES

SUSPENSION ENGINEERING



JRZ 12 51

Triple adjustable

- 50 DA shaft.
- Rebound adjustment completely independent from compression
- Large adjustment range
 - 27 clicks compression on shaft
 - 14 clicks compression on reservoir
 - 27 clicks rebound on shaft
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 12 52

Triple adjustable

- Identical features as the JRZ 12 51
- Stronger strut construction
- Increased oil flow due to bigger pistonrod
- Increased lifting force
- Less operation friction
- More direct damping by smallest movement of suspension



JRZ 12 53

Triple adjustable

- Identical features as the JRZ 12 52
- Inverted strut assembly, strongest strut construction
- Reduced radial loading on piston



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JRZ[®] 14

SUSPENSION ENGINEERING SERIES



HG MOTORSPORTS

JRZ 14 31

Quadruple adjustable

- Rebound adjustment independent from compression
- Large adjustment range
 - 10 clicks low speed compression
 - 15 clicks high speed compression
 - 8 clicks low speed rebound
 - 15 clicks high speed rebound
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 14 32

Quadruple adjustable

- Identical features as the JRZ 14 31
- Stronger strut construction
- Increased oil flow due to bigger pistonrod
- Increased lifting force
- Less operation friction
- More direct damping by smallest movement of suspension



JRZ 14 33

Quadruple adjustable

- Identical features as the JRZ 14 32
- Inverted strut assembly, strongest strut construction
- Reduced radial loading on piston



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SP MOTORSPORTS

JRZ 14 51

Quadruple adjustable

- 50 DA shaft.
- Rebound adjustment completely independent from compression
- Large adjustment range
 - 27 clicks compression on shaft
 - 10 clicks high speed compression on reservoir
 - 8 clicks low speed compression on reservoir
 - 27 clicks rebound on shaft
- High response piston
- Low friction
- Adjustable gas pressure



JRZ 14 52

Quadruple adjustable

- Identical features as the JRZ 14 51
- Stronger strut construction
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JRZ 14 53

Quadruple adjustable

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FA 3030 Piston

JRZ Suspension Engineering is pleased to introduce the FA3030 piston. Designed to allow a large range of dyno curves giving the race engineer the possibility to create specific damping characteristics and fine tuning options.

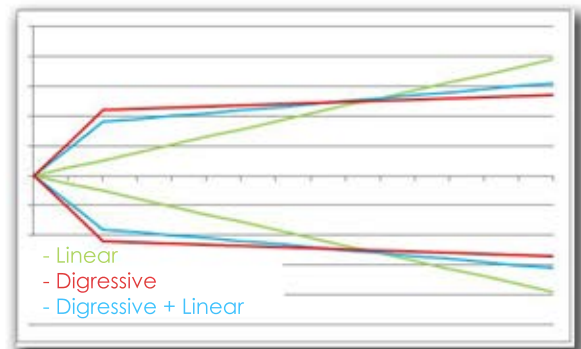
The FA 3030 allows a high response system to be combined with the proven JRZ approach to dampen the unsprung mass. This results in much improved chassis and ride height control while maintaining tire wear and compliance over bumps/kerbs.

Features

- Ability to tailor damping characteristic to tire/chassis combination
- Four zones of damper velocity independently tunable
- Greatly reduced hysteresis
- Easy to create custom curves with JRZ valving matrix and database

Available for

JRZ RS PRO SPORT
 JRZ 11 Series
 JRZ 12 Series
 JRZ 14 Series



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50 - DA Motorsport shaft

JRZ Suspension Engineering is proud to present the next chapter in our continually evolving product line; the 50-DA, double adjustable shaft assembly. Following the success of the FA3030 piston, the 50-DA was designed to further our goals of providing motorsport clients with a wide array of tools.

Compression and rebound bleed can now be adjusted independently. Adjustments are available in several ranges from fine to wide for both compression and rebound. Each click gives an even and predictable adjustment from minimum to maximum.

Combined with the FA3030 the 50-DA can provide almost any damping curve and adjustment style. User desired characteristics are easy to achieve with our valving matrix. The flow paths in the system are designed to produce significant low speed damping forces with low hysteresis. This is used with our proven damping philosophy in compression to give the most direct JRZ feeling ever.

Features

- 27 clicks compression on shaft
- 27 clicks rebound on shaft
- Completely independent adjustments
- Even steps in damping adjustment per click
- Check valves adjustable for initial nose tuning
- Large, standard and fine bleed range
- 25 & 22 mm shaft applications available

Available for

JRZ RS PRO SPORT
JRZ 11 Series
JRZ 12 Series
JRZ 14 Series



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Armored Vehicles

JRZ Suspension Engineering has over 60 years of experience in developing and research of multiple applications like racing damper, railway dampers, armored vehicles, off road, and rally, this experience has lead to the JRZ design damper.

JRZ DAMPERS

The past 10 years JRZ struts and dampers are in use as applied to different brands of armored vehicles all over the world to protect people while traveling from A to B. The spring / damper units have been developed by JRZ to operate under the most difficult conditions and have been selected for the quality and perfect handling under the most severe terrain conditions while the suspension keeps the vehicle well controlled at high speeds and high vehicle weights.

Stage 1 (available soon)

Build with the JRZ philosophy.

- Non adjustable damping
- Height adjustable (three preset heights)

Stage 2

JRZ Twintube design dampers produced and manufactured by hand in the Netherlands.

- Non adjustable damping
- Height adjustable

Stage 3

JRZ dampers with external reservoir, produced and manufactured by hand in the Netherlands.

- Non adjustable damping
- Gas pressure adjustable (effects lifting force)
- Height adjustable



Stage 1



Stage 2



Stage 3

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JRZ armored tire

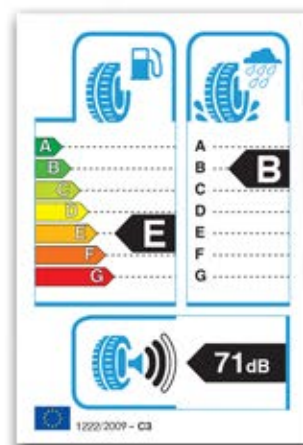
After a test and development stage of 1.5 years JRZ developed together with Maxxis R&D team a special armored car tire with world wide approvals. This JRZ tire can be used for armored cars B5 up till VR 10. JRZ could achieve this because of our 28 years experience in on and off road tire development.

This JRZ BRAVO MAXXIS HT770: 275/70R18 128/125Q 12PR tire is worldwide approved.

- European approved
- DOT approved
- GSO certificated

JRZ tire is designed for maximal comfort and grip in all circumstances.

- Less noise and vibration
- Improved bead seat and side wall design causes excellent corner and straight line stability
- Self-cleaning design decreases tread puncture's in off-road circumstances
- Max grip on-road/off-road and in dry/wet conditions
- Improved braking performance up to 25% shorter braking distance
- Up to 20% less tread wear



1. Dual Circumferential Grooves

The high-volume circumferential grooves increase water dispersion efficiency for improved hydroplaning resistance.

2. Multi-Pitch Tread Blocks

This technology works in a way similar to noise-canceling headphones. The shoulder blocks are designed to produce sounds that dampen annoying pattern noises so the cabin stays quiet and serene.

3. Closed Shoulder Design

The closed shoulder design limits noise resonance in the tread area which further improves the overall driving experience and treadwear.



JRZ Premium highway/terrain armored car tire designed for B5, B6-VR7, B7-VR9 level armored cars. (total car weight from 3500 kg up till 7200 kg).

JRZ Suspension Engineering is Worldwide Exclusive Distributor for this JRZ BRAVO MAXXIS HT770 tire.

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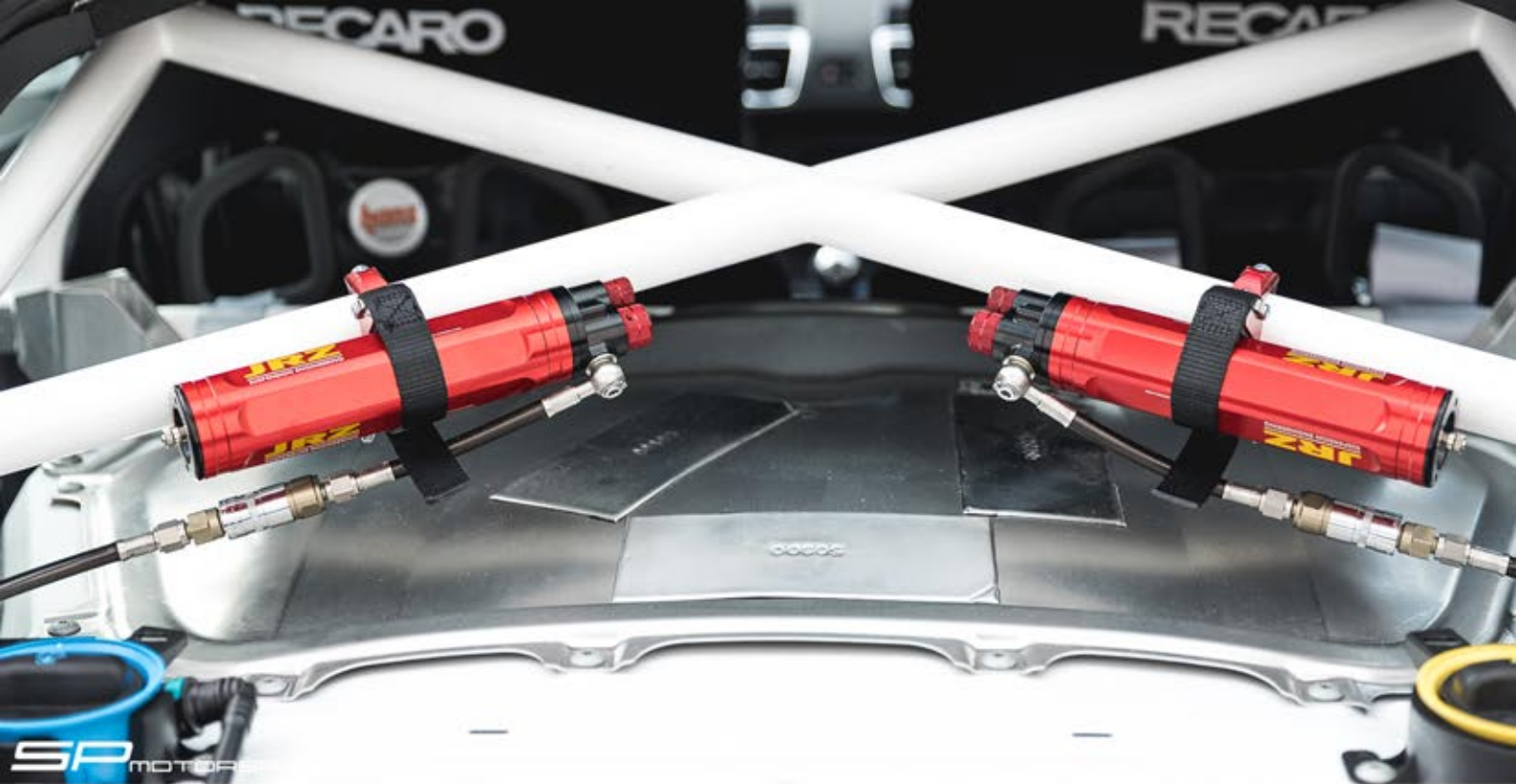
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Can I get JRZ for my vehicle?

On our website you can search for your application. Fill in your car make and model, our available models for your vehicle will be displayed.

Can JRZ make costum dampers for my vehicle?

It is possible that we don't have your vehicle application displayed on our website. Contact our dealers or JRZ directly to find out what we can do for you.

Finding our dealers

You have found the JRZ's that you want or you want more information about our products? Locate your nearest dealer in our online dealer finder, go to www.JRZsuspension.com/dealers.html fill in your location and the nearest JRZ dealer(s) are shown.



www.JRZsuspension.com



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