



# JEFF RYAN — THE INNOVATOR



It's been said that ordinary people can do extraordinary things when they apply their God given talents. Jeff Ryan is an ordinary guy, who today is recognized as one of the most legendary shock innovators in the world. But he didn't travel a traditional path. His knowledge for shocks wasn't learned in a college classroom or out of text book. His life of suspension started out simply as a kid with a love for motocross and a mind for machines. His path through motorsports has been a journey around the world, where he worked with legendary racers, such as Dale Earnhardt, Nigel Mansell, Rick Mears, Richard Petty, Alain Prost, Michael Schumacher and Rusty Wallace, while quietly becoming a shock building legend himself. Jeff Ryan's pioneering technologies have supported championship teams from Formula 1 in Europe to the depths of Baja in off-road racing to stock car racing's highest levels of NASCAR.

## A CALIFORNIA KID WITH RACING DREAMS...

It was 1979 and Jeff Ryan was a young high school senior from Campbell, California just outside of San Jose. He lived for riding dirt bikes and motocross racing. While most of his classmates were looking to move onto college and develop defined career paths, Jeff Ryan was going to work as a general assembler for legendary shock innovator, Bob Fox. Ryan was one of the first 10 employees at Fox Shocks, in a time when suspension technology was just taking to the track.

"It was an exciting time. Many new things were happening in racing suspension and I was just a young kid taking it all in. I loved motocross and I loved building things, so for me working at Fox was a dream job. Although I'm not sure my Dad at the time agreed with my choice." It was at Fox Shocks that Jeff Ryan became a skilled self-taught machinist, set a foundation for shock design, gained a general understanding of the racing industry, and built relationships through customer service and sales for Fox.

## OPEN WHEEL...OPENS JEFF'S WORLD...

At age 25 Jeff Ryan was already getting noticed. He was recruited to the Indy Car Team, Galles Racing. Jeff was hired as a machinist, as there was no such thing as a shock specialist at that time. During the day he would machine parts for the team and during the late hours of the night Ryan would work on shocks. He watched and learned from the many engineers that came through Galles Racing. He also spent nearly every weekend at the race track absorbing the communications of drivers, crew chiefs and lead engineers. In the calm stillness of the late nights at the race shop, Jeff began to put all the components of his knowledge of

**5**  
FORMULA ONE  
World  
Championships

**10**  
US OPEN WHEEL  
Championships

**9**  
INDIANAPOLIS 500  
Victories

**10**  
NASCAR  
Cup Series  
Championships



various shock technologies and what he'd learned from the racetrack into his own shock innovations. His niche in life was beginning to shine as the shocks he built performed.

The Galles Racing Team's increased performance caught the attention of the Penske Racing organization where he was recruited to introduce a new 4-way design for Penske Racing's IndyCar Teams. Impressed with the design, Roger Penske asked Jeff to lead and direct a new startup company called Penske Racing Shocks. Over the span of 15 years, Jeff built one of the most championship and race winning shock absorber manufacturers to date.

## A LEGACY OF HIS OWN...

Wanting to pursue new business segments that used shock absorber technologies outside of racing, Jeff decided to leave Penske Racing Shocks. In 2007, JRI Shocks was founded specializing in racing, military, bio-medical and commercial applications. JRI has accolades and milestones rivaling companies twice their age and size. Beginning with

4 employees, a 1,550 square foot building in Raleigh, North Carolina to today with 113 employees, a 70,000 square foot facility in Mooresville, North Carolina, JRI has expanded to keep up with business growth. Over the years, they have landed multiple OEM contracts with companies such as Arctic Cat, Chrysler and Continental Engineering and supplied each contract with the same high performance shocks JRI is known for. All JRI Shocks are hand-built, not mass assembled and have continued to accrue countless wins, records and championships in all forms of motorsports around the world. A company rooted heavily in Engineering, JRI has completed special projects for other transportation platforms such as planes, boats and trains, as well as bio-mechanical/cyborg devices and numerous suspension applications within the Defense/Military sector.

As we look to the future, JRI Shocks next decade will be a similar progression to the last 10 years. Focusing on innovation and striving for excellence, JRI will continue leading the way in the highly competitive shock absorber industry.

**Multi**  
SPORTS CAR  
Championships

**Multi**  
SUPERBIKE  
Championships

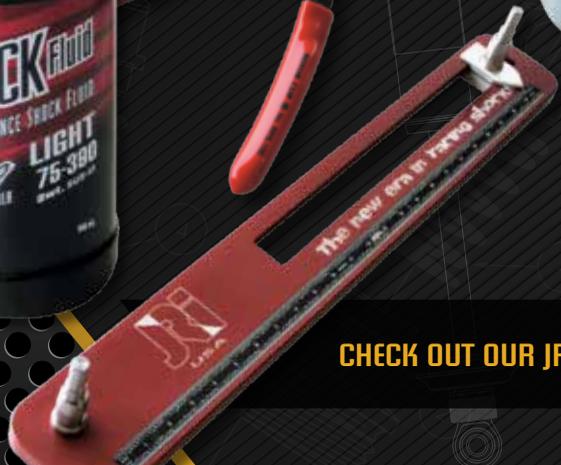
**Multi**  
DAYTONA 500  
Victories

**Multi**  
NHRA PRO STOCK  
Championships

**AMA**  
SUPERCROSS  
Podium Finish

JRi Shocks are purposely designed to be  
**REBUILDABLE AND SERVICEABLE . . .**

Every tool needed to work on a shock is  
 available for purchase on JRishocks.com.



**JRi**  
 shocks

CHECK OUT OUR JRi APPAREL @JRISHOCKS.COM



6



8



10



12



14



16



18



20



22



24



26



28



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38

**JRi**shocks

704-660-8346 www.jrishocks.com



## ELECTRONICALLY DEFINE YOUR RIDE

JRi's patented JRide shock system for street, off-road and racing applications allows users to adjust the shocks damping capabilities without ever leaving the drivers seat. The electronically adjustable system allows the user to adjust the compression and rebound on all shocks virtually instantaneously. The JRide system comes with multiple JRi preset settings for various road and track conditions as well as multiple off-road terrain types. Incremental adjustments to the shocks rebound and compression characteristics can be made via the full color display. Compatible with the Ride Height System. The innovative JRide system from JRi puts complete control at your fingertips.



Full Color Touch Screen Display



Optional Smart Keypad



### STREET/RACING

The JRide system offers a level of control and adjustment that no other shock on the market can match. With only the push of a button, the user can adjust the rebound and compression characteristics of the vehicles shocks in just hundredths of a second. That means varying or changing road or track conditions are no longer an issue.

**APPLICATIONS:** Eyelet to Eyelet shocks and some chassis modification is required.

### JEEP JK

The first "on the fly" adjustable shock package for the Jeep JK. The system comes with factory terrain presets for Dunes, Desert, Trails, Mud and more. All presets can be custom tuned to the operators preference based on a 10 position setting scale for both compression and rebound.

### DRAG RACING

The JRide system has been approved for use by the NHRA and achieved its first pro drag racing win in 2014 with continued success. Using a preprogrammed timing sequence, the JRide system can make automatic and instantaneous adjustments to the shocks damping characteristics all the way down the track once triggered by the throttle.

**APPLICATIONS:** Pro Stock, Pro Mod

## RIDE HEIGHT

From performance to aesthetics, the JRi Ride Height System allows you to choose your vehicle height. JRi's hydraulic ride height system is a game changer for those interested in raising and lowering their vehicle with the push of a button. The state of the art Ride Height System uses a coilover spring with a hydraulic weight jacker allowing you to raise and lower your vehicle instantly by way of a hydraulic pump. Traditional air ride systems are sufficient for lowering your car for a show but come with several deficiencies; air is inconsistent, it changes dramatically with temperature and elevation thus affecting handling and performance. Over time, seals will weather and eventually leak leading to decreased performance. The JRi Hydraulic Ride Height system uses no air. That means no noisy compressor, no leaky seals and no variances with changes in temperature or elevation. Just the ultimate package of performance, ride quality and ride height.

## TECHNICAL ADVANTAGES

- Offers 1"-3" of ride height adjustments
- Instant adjustment
- Coilover design
- Ability to make spring changes
- Small compact 12V hydraulic pump
- Requires some plumbing and electrical during installation
- Available in most standard JRi coilover sizes
- Non, Single, or Double Adjustable Shocks
- Dash mounted display- optional
- Compatible with JRide system
- Base kit includes pump assembly with pump manifold, quart of shock oil, and all four shocks

## APPLICATIONS

The Ride Height system is available for any chassis that accepts eyelet to eyelet mounted coil over shocks. We spec out each set of coilovers to ensure maximum performance based on vehicle weight and application. Pricing is dependent on the type of shocks that you want.



## DRAG RACING MARKET



JRI Shocks has been committed to excellence in the Drag Racing Industry for many years providing trackside support at major events across the country as well as contingency programs to stand behind our drag racing shocks. The double adjustable drag shock, our most popular shock, fits anything from the complete Stock classes of NHRA all the way to ProMods.

### Double Adjustable Shocks

- Adjusts preload on rebound shim stack for starting line conditions
- Low speed compression adjustable
- Most adjustability on the market
- Responsive to higher frequency inputs
- Reduced tire shake
- Perfect for Top Sportsman & Top Dragster classes
- Consistent and faster 60' times
- Available in 4", 5", 6", 7" and 8" stroke
- Air assist option available



### 4-Way with Air Assist

- Adjusts high speed rebound for track conditions
- High & low speed compression adjustment on the canister
- "Dump" the air for a smooth ride down the track
- Air assisted allows you to be more aggressive with rebound which achieves better 60' times
- High & low speed adjustments on rebound and compression all independent from each other
- If you race on multiple race tracks, easily adjustable to all types of track conditions
- Responsive to higher frequency inputs
- Available in 4", 5", 6", 7" and 8" stroke
- Reduced tire shake
- Consistent and faster 60' times



### Triple Adjustable Air Drop Shock

- Adjustable preload on rebound shim stack for starting line conditions
- Air assist allows you to use max rebound at starting line, keeping the shock at a certain position for a certain amount of time before releasing air and smoothing out the ride
- Works off air and a timer – once you get down the track 60 feet or so, you can dump the air to lower the ride height down which adds angle into the four-link resulting in the tires getting more grip
- Responsive to higher frequency inputs
- Reduced tire shake
- Consistent and faster 60' times
- Lowers ride height up to 2 inches
- CO2, solenoid and timer sold separately



### Sportsman Shocks

- Easily serviceable and rebuildable monotube design
- The most technology you can buy for the price
- Designed for Index and all stock classes
- Gas pressurized for consistent shock performance
- Two stroke options: 5" stroke, 17.5 extended and 6" stroke, 19.5 extended
- Compression and rebound adjusted separately which provides a wide range of adjustability
- Coil-Over kit included
- Lightweight aluminum design



## JEEP JK SHOCKS



JRi Shocks designed specifically for the Jeep lifestyle provide the technology for your Jeep to easily go from the driveway to the trail. Lift kits typically make the ride more stiff, potholes become painful and railroad tracks are rough. Our shocks offer 6 settings to customize your driving preference- Highway Setting for plush commuting all the way to an Off-Road Setting for weekend adventures with the turn of a knob.

## TECHNICAL ADVANTAGES

- With JRi's special valving, body roll is eliminated no matter what size tire or lift kit
- Aluminum Shock body with anodized coating adds durability and dissipates heat faster than the stock Steel shock body which extends the life of the shock
- 2.0 Compression adjust reservoir that allows for increased oil flow and nitrogen capacity which provides better performance and longevity
- Double-shear bracket in the front provides increased wheel articulation while off-roading
- Spherical bearings are used on upper and lower mounts as they are stronger, last longer and reduce noise versus rubber bushings that wallow out creating squeaks and creaks
- Easy installation; Hassle-free bolt on OEM Direct Replacement Mounting
- 100% Serviceable and Re-buildable

### Jeep JK Complete Vehicle Set – All Years

Available in 0"-2" lift, 2"-3" lift and 4"-6" lift



## UTV SHOCKS



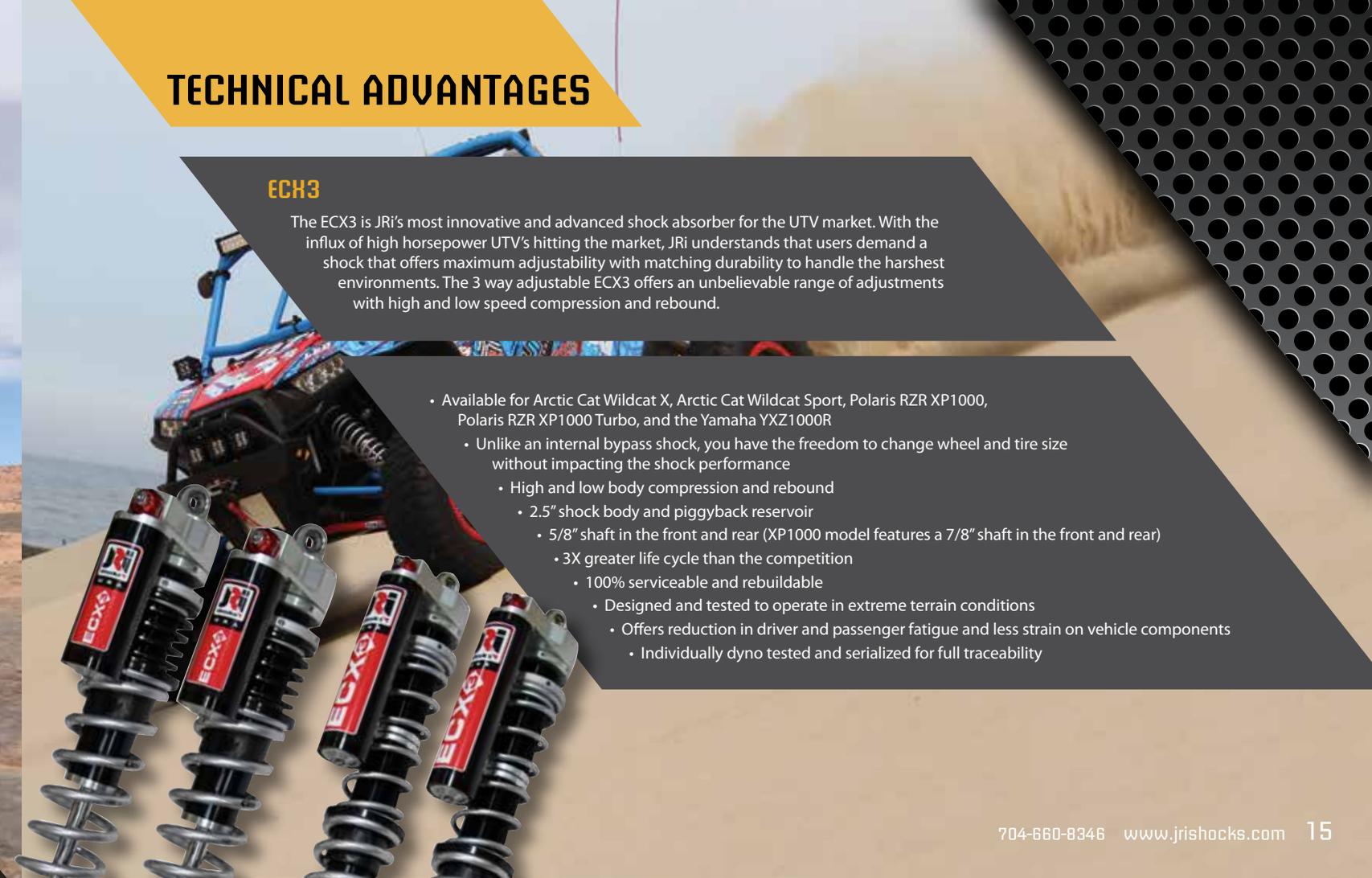
JRi UTV Shocks offer a range of adjustability to keep up with the constant change in terrain conditions. Whether you are in the desert or woods, JRi has developed the most advanced, highest performing shocks and coilovers for your on and off-road needs. Three hundred years of racing and shock absorber experience combined with extensive Military suspension and vehicle manufacturing, has produced a line of shock offerings that will stand up to the harshest conditions.

## TECHNICAL ADVANTAGES

### ECX3

The ECX3 is JRi's most innovative and advanced shock absorber for the UTV market. With the influx of high horsepower UTV's hitting the market, JRi understands that users demand a shock that offers maximum adjustability with matching durability to handle the harshest environments. The 3 way adjustable ECX3 offers an unbelievable range of adjustments with high and low speed compression and rebound.

- Available for Arctic Cat Wildcat X, Arctic Cat Wildcat Sport, Polaris RZR XP1000, Polaris RZR XP1000 Turbo, and the Yamaha YXZ1000R
- Unlike an internal bypass shock, you have the freedom to change wheel and tire size without impacting the shock performance
- High and low body compression and rebound
  - 2.5" shock body and piggyback reservoir
  - 5/8" shaft in the front and rear (XP1000 model features a 7/8" shaft in the front and rear)
  - 3X greater life cycle than the competition
  - 100% serviceable and rebuildable
- Designed and tested to operate in extreme terrain conditions
- Offers reduction in driver and passenger fatigue and less strain on vehicle components
  - Individually dyno tested and serialized for full traceability



## HARLEY SUSPENSION PRODUCTS

## TECHNICAL ADVANTAGES

### JRi Fork Cartridges

- Reduces front brake diving and improves stability, cornering and bottoming control
- Replaces all of the HD fork internals
  - Constructed from all aluminum aircraft grade parts and certain parts are Teflon coated to eliminate friction along spring
  - Spring isolator to prevent spring buckling and reduce noise
  - Piston design allows for dynamic low speed and high speed control
  - Easy spring load adjustment

### JRi Rear Shocks

- Available in Standard or Single Adjustable
- Various lengths and spring combinations available to meet rider profile
- Rebuildable and serviceable

### Harley fork Cartridge - Pair

Harley-Davidson Touring models 2014 to 2017  
Harley-Davidson Touring models 1997 to 2013

### Standard & Single Adjustable Shocks - Pair

Available for Dyna, Sportster, Touring and V-Rod Models

JRi Shocks offers a complete line of Harley-Davidson Suspension products which includes fork cartridges for the front and shocks for the rear with performance based settings for improved comfort and handling. Designed specifically for the Harley- Davidson Touring Models, the fork cartridges are tuned to work in unison with JRi rear shocks to provide a smooth and controlled ride.



## INDIAN MOTORCYCLE SHOCKS



The Indian is a classic American motorcycle that begs to be ridden. Our aim is enhance the ride and leave you coming back for more. Available for the Scout and Chief models, JRi Shocks offers easy installed bolt on OEM replacements.

## TECHNICAL ADVANTAGES

- Single Adjustable
  - 12" Length
  - Red or Black Spring colors available
  - Spring specific to rider and gear weight
  - Monotube design allows for more volume and a better fluid flow
  - Each shock is dyno tested and serialized to ensure performance standards
  - Performance based settings for improved comfort and handling
  - Rebuildable and serviceable



## SPORT MOTORCYCLE SHOCKS

JRi Shocks has taken its many years of racing experience and background to develop a line of suspension components that gives you the optimum ride. With the ever changing market, JRi has adapted a modular style allowing a variety of motorcycle shock builds with small shaft design and larger reservoir volume.

### Inline Single Adjustable Shock

The Inline Single Adjustable Shocks provide the performance along with the flexibility of universal fitment with a price point to fit a wide range of customer budgets. With sport bikes, naked bikes, and entry level bikes all becoming more and more compact, the inline single adjustable shock provides universal fitment, price flexibility without sacrificing the performance JRi is known for.

#### TECHNICAL ADVANTAGES:

- Affordable price point
- Ride height adjustment capability
- Internal floating piston
- Universal mounting and fitting design
- 100% serviceable and rebuildable
- Dyno tested ensuring excellent performance
- Spring preload adjustment
- Proven track record performance
- Dozens of premiere expert class wins
- Best mid turn grip of any shock on the market
- Available for Honda CBR, Kawasaki Ninja, KTM 390R, KTM 390 Duke, Suzuki SV650, Yamaha R3, Yamaha FZ09 and Yamaha FZ07 models

### Triple Adjustable Piggyback Sport Bike Shock

The Triple Adjustable Piggyback shock is our premier sport motorcycle shock. It can be found in every paddock across the country where road racers demand a shock that performs at the highest level. Street and track day riders who demand the best performance depend on the triple adjustable piggyback shock.

#### TECHNICAL ADVANTAGES:

- Provides multiple adjustment options- ride height, high and low speed compression, low speed rebound and spring preload
- Universal mounting and fitting design
- 100% serviceable and rebuildable
- Dyno tested ensuring excellent performance
- Has assisted in achieving numerous track records and been a part of two National Endurance Championship wins
  - Available for Honda CBR, Kawasaki Ninja, KTM 390R, KTM 390 Duke, Suzuki SV650, Yamaha R3, Yamaha FZ09 and Yamaha FZ07 models



# SLINGSHOT SHOCKS



JRi Shocks collaborated with Alpha Powersport for countless hours of research, development and testing to create specific valving and spring rates for the Slingshot platform. The monotube design allows for increased oil flow and nitrogen capacity which provides better performance and longevity while being lighter than stock shocks. All shock packages offer ride height adjustment via spring preload. JRi Shocks are hand built in the U.S.A., and are 100% re-buildable and serviceable. Eibach® gloss red springs come standard and custom spring colors are available upon request. These shocks improve ride comfort and handling while providing adjustment options that actually work.



## Performance Clicker Shocks

The performance clicker shocks are the all-in-one shock that can be adjusted to eat the bumps and cracks for a smooth comfortable ride or set firm to tackle corners and track days.

- Ride Your Way- adjust your shocks to suit your riding style
- Designed for comfort and performance with the adjustability to soften or stiffen the ride
- Clicker knob to adjust damping with wide range from soft, medium and stiff
- Approximately 60 clicks of damping adjustment

## Sport Shocks

The sport shock is designed for the person looking for a better shock than OEM. This shock will provide an increase in performance and handling. Ideal for someone who is looking for improved cornering and light track use.

- Entry level performance
- Designed for a sportier ride and improved performance
- Custom aggressive valving for spirited driving while maintaining less body roll



## Piggyback Shocks Double Adjustable

A step above the performance clicker shock, featuring an added adjustment for superior handling on road or for aggressive track days.

- Top-of-the-Line Performance
- Reservoir for extra nitrogen volume and compression adjustment
- Independent compressions and rebound adjustment
- 6 setting compression adjuster
- Approximately 60 clicks of rebound adjustment
- Shock offers fine tune adjustments similar to what's available on race only vehicles



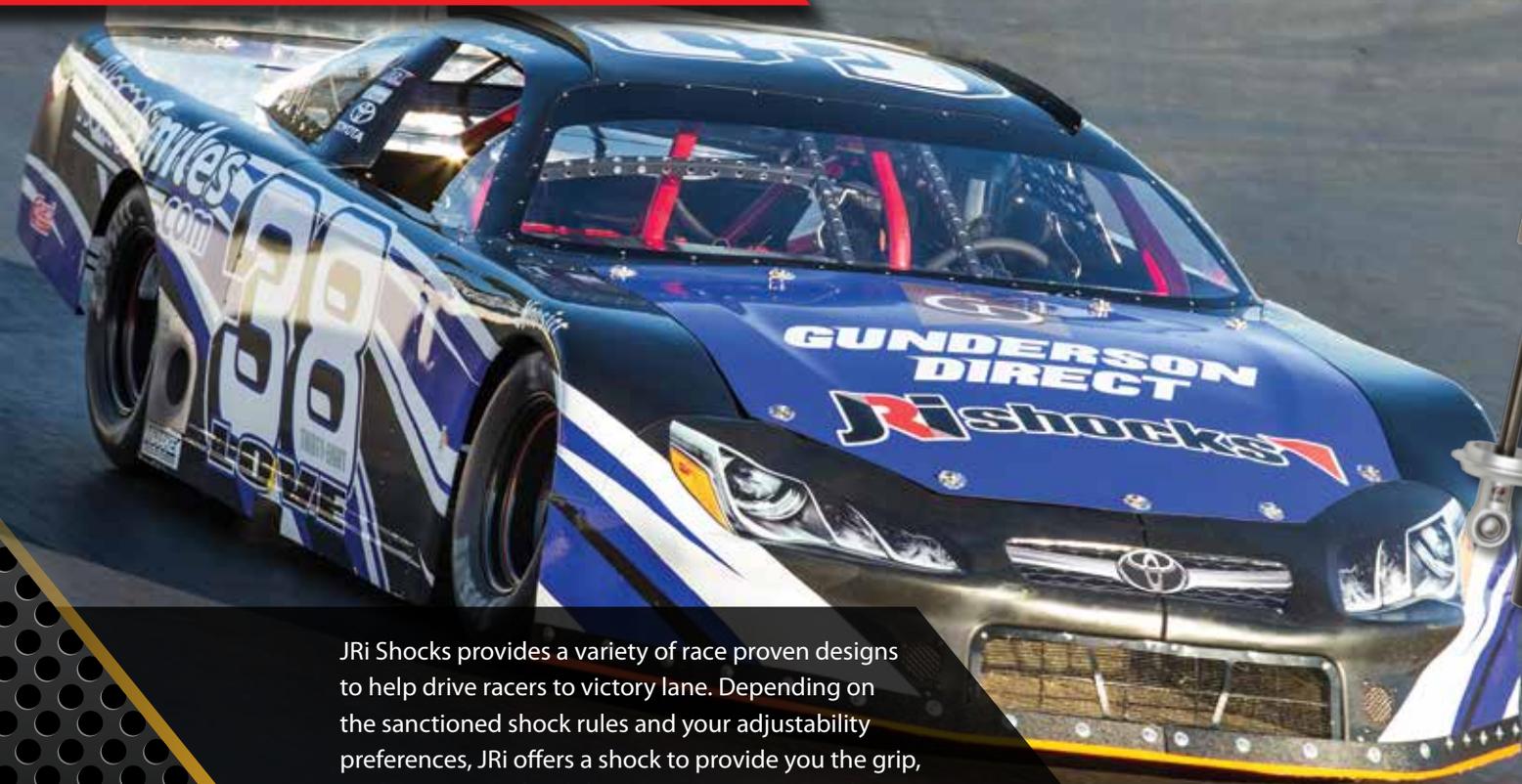
## Grand Touring Shocks

The grand touring shocks were developed to improve ride comfort over bumps and rough road without sacrificing the sporty handling characteristics of the vehicle.

- Comfort mixed with performance
- Designed to provide a smooth ride and improved handling
- Internal fixed bleed shaft with custom plush valving for a smoother ride than OEM shocks



## SHORT TRACK ASPHALT SHOCKS



JRi Shocks provides a variety of race proven designs to help drive racers to victory lane. Depending on the sanctioned shock rules and your adjustability preferences, JRi offers a shock to provide you the grip, performance and stability to put you in victory lane.



### ST/08 Shocks

The JRi ST/08 short track shock was designed specifically for the demands of short track racing. From sanctioned shock rules to super late models, JRi has a variety of options to provide a winning shock solution for your short track needs.

- A variety of adjustability options available: Non, Single, Double, Triple and 4-Way
- Available from 4-9" stroke
- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximum grip to create the curve you're looking for
- Multiple lengths available
- Single and double adjustable options feature a wide range of adjustments from full open to full closed with multiple jet and needle options to tune your range
- Triple adjustable option offers high and low speed rebound adjustment for greater range in one shock



### SC/07 Coilover Shocks

Based off our winning NASCAR shock design, the SC/07 was developed to provide a larger nitrogen volume than the standard ST/08 resulting in lower rod pressure which increases grip.

- Non-canister design increases response time
- Available in single and double adjustable
- Base valve and non-base valve available
- Features low friction end bearing
- Threaded body gives ability to run coilover
- Lighter than ST/08
- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Multiple piston options for maximum grip to create the curve you're looking for



### SL/14 Shocks

The SL/14 steel body shock features a larger nitrogen chamber and smaller shaft diameter to greatly reduce rod pressure gain due to displacement and heat. The shaft bearing dust cap and the eyelet jam nut allow for easily changing bump stops.

- Custom valving options available to meet specific driver needs
- Base valve and non-base valve available
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximum grip to create the curve you're looking for
- Variety of adjustability options: Non, Single, and Double (Double available only with 5/8" shaft)
  - 1/2" shaft with jam nut
  - Floating rod guide
  - 5" Coilover kit



## SHORT TRACK DIRT SHOCKS



JRi Shocks provides a variety of race proven designs to help drive racers to victory lane. Depending on the sanctioned shock rules and your adjustability preferences, JRi offers a shock to provide you the grip, performance and stability to put you in victory lane.

### ST/08 Shocks

The JRi ST/08 short track shock was designed specifically for the demands of short track racing. From sanctioned shock rules to super late models, JRi has a variety of options to provide a winning shock solution for your short track needs.

- A variety of adjustability options available: Non, Single, Double, Triple and 4-Way
- Available from 4-9" stroke
- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximum grip to create the curve you're looking for
- Multiple lengths available
- Single and double adjustable options feature a wide range of adjustments from full open to full closed with multiple jet and needle options to tune your range
- Triple adjustable option offers high and low speed rebound adjustment for greater range in one shock



### SL/10 & SL/13 Shocks

The JRi SL/10 and IMCA legal SL/13 steel body dampers were designed with the same performance-based technology that JRi incorporates in all of our products, while remaining cost effective for the racer.

- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- 1/2" shaft upgrade option available
- Schrader valve SL/10 and IMCA legal hyper-screw on the SL/13
- Double Adjustable option available
- Multiple piston options for maximum grip to create the curve you're looking for
- Gas charged • Coilover Kit available • Floating rod guide



### SC/07 Coilover Shocks

Based off our winning NASCAR shock design, the SC/07 was developed to provide a larger nitrogen volume than the standard ST/08 resulting in lower rod pressure which increases grip.

- Non-canister design increases response time
- Available in Single and Double adjustable
- Base valve and non-base valve available
- Features low friction end bearing
- Threaded body gives ability to run as a coilover
- Lighter than ST/08
- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Multiple piston options for maximum grip to create the curve you're looking for



### SL/14 Shocks

The SL/14 steel body shock features a larger nitrogen chamber and smaller shaft diameter to greatly reduce rod pressure gain due to displacement and heat. The shaft bearing dust cap and the eyelet jam nut allow for easily changing bump stops.

- Custom valving options available to meet specific driver needs
- Maintains better performance and longevity over runs
- Base valve and non-base valve available
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximum grip to create the curve you're looking for
- Variety of adjustability options: Non, Single, and Double (Double available only with 5/8" shaft)
  - Large nitrogen chamber
  - 1/2" shaft with jam nut
  - Multiple piston options
  - Floating rod guide
  - 5" Coilover kit available



## SPORTSCAR / ROAD RACING SHOCKS



JRi Shocks provides shock technology, service and support across all open wheel and road racing series. These shocks were developed based off Jeff Ryan's extensive experience and success in open wheel racing and have track records of success in all forms of racing. With different length offerings and adjustability ranges JRi has shocks for a variety of vehicle platforms.

### IndyCar Shocks

The JRi IndyCar shock was designed with one thing in mind; improved grip. Studying the ultracompetitive IndyCar series for two years, we took an approach of offering very efficient and responsive damping characteristics. By concentrating on these traits, the shock absorber has less secondary componentry than our competitors resulting in a clean damping delivery system. By doing so, this results in a much more coherent damper relative to the many different frequency inputs.

- Increased frequency response through primary piston design
- High speed rebound and low speed compression or rebound adjustment available
- Reduced friction in all areas including coulomb and breakaway seal friction
- Cost effective compared to the IndyCar alternatives
- Improved repeatability and stability in temperature fluctuations
- Rear weight jacker available
- Electronic componentry is available for subjective track testing and objective 7-post testing to improve testing and tuning time

### Formula Style Shocks

Whether your race car is a custom designed chassis or showroom stock, JRi can provide shocks for your racing needs. JRi offers different lengths and adjustability ranges to fit a variety of vehicle platforms.

- Compact design
- Non, Single, Double, Triple and 4-Way adjustment options available
- Race proven, lightweight and cost effective
- Increased frequency response through primary piston design
- Varying levels of compression and rebound adjustment available

### Sportscar Shocks

Depending on your chassis manufacturer, JRi has a race proven design for your needs.

- Variety of adjustability options: Non, Single, Double, Triple and 4-Way
- Custom valving options are available to meet specific driver needs
- Multiple piston variations for maximum grip to create the curve you're looking for
- Assortment of length and mounting options to suit a wide range of racing applications



## STOCK CAR SHOCKS



Located in Mooresville, NC, JRi is headquartered in Stock Car country. The JRi SC/07 shock was developed after countless hours of research, development and knowledge of various shock technologies from countless race wins in all forms of motorsports from around the world. On and off the track, JRi will provide support to compete with the ever changing tracks and conditions.

### SC/07 HSRD

For the last decade, adjustments have been made through an adjustment bleed circuit which primarily controls slower shaft speeds or "low speed" damping. The HSRD allows for an adjustable preload of the primary rebound stack using a secondary shim stack acting through a lightweight cage. Using the JRi check valve, the jets can be utilized as compression bleed, rebound bleed, or straight through bleed.

#### TECHNICAL ADVANTAGES:

- ARCA Racing Series and NASCAR legal
- High speed rebound adjustment providing more adjustability in a single shock
- Fixed bleed through the sweeps
- Maintains better performance and longevity through the runs
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximizing grip and to create the curve you're looking for
- Multiple length options available
- Custom valving options available to meet specific driver needs

### Kit Parts

JRi offers a variety of piston selections, eyelet combinations and monoballs allowing teams to customize their shocks to meet any track condition and chassis configuration.

### SC/07 Bleed Adjustable

The JRi bleed shaft shock has a range of bleed adjustment options- fine, high flow and compression blow-off. The bleed shaft is a click style knob that allows for 80 clicks of adjustment. The low speed compression/ rebound components use a poppet and high quality spring to adjust the compression/ rebound to the desired settings.

#### TECHNICAL ADVANTAGES:

- ARCA Racing Series, NASCAR and K&N Racing Series legal
- High speed rebound adjustment providing more adjustability in a single shock
- Base valve and non-base valve options available
- Maintains better performance and longevity through the runs
- Lower hysteresis resulting in improved response time
- Lower friction, reducing stiction
- Multiple piston options for maximizing grip and to create the curve you're looking for
- Multiple length options available
- Custom valving options available to meet specific driver needs

### SC/07 Double Adjustable

Based off our winning NASCAR shock design, the SC/07 was developed to provide a larger nitrogen volume than the standard ST/08 resulting in lower rod pressure which increases grip.

#### TECHNICAL ADVANTAGES:

- ARCA Racing Series and NASCAR legal
- Non-canister design increases response time
- Available in Single and Double adjustable
- Maintains better performance and longevity over runs
- Base valve and non-base valve options available
- Features low friction end bearing
- Multiple piston options for maximizing grip and to create the curve you're looking for
- Custom valving options available to meet specific driver needs

# AMERICAN MUSCLE CAR SHOCKS



Performance has been maximized to the next level for the Pro Touring enthusiast. All of the same quality and precision of a JRI racing shock is now available for your street car, giving you the advantage in race mode - AutoCross and Road Course - without sacrificing any ride comfort.

## Camaro Platform

JRI Shocks teamed up with Detroit Speed to develop the ultimate 5th Generation Camaro suspension platform. These shocks and struts provide undisputable performance advantages including excellent ride quality, faster lap times and an easy transition from the street to the track.

- 5th Gen Camaro – model years 2010-2015
- High-performance, aluminum struts for the front and shocks with 'Detroit Tuned' valving for the rear
- Available in Single adjustable and Double adjustable configurations
- Offers adjustable camber slugs- 0, 1/16", 1/8", 3/16" and ¼"
- Coilover design offers adjustable ride height
- Inverted rear shock design provides easy spring changes
- Complete Kits available from JRI Dealers



## Mustang Platform

From a '64 Mustang to a S-197 and everything in between, JRI Shocks offers a suspension system that will meet your needs.

- Coilover design offers adjustable ride height
- Available in double adjustable configuration
- Lightweight, steel body struts for the front and billet aluminum shocks for the rear
- Nitrogen charged for added consistency delivering better performance and longevity
- Complete Kits available from JRI Dealers



## Corvette Platform

The Corvette exudes performance, speed and style. Off the showroom floor, the Corvette is virtually track ready. JRI's performance technology allows one to transition from street to track in minutes, optimizing overall handling for the desired application.

- Offer C5, C6 and C7 Platforms
- Double adjustable, coilover
- Nitrogen charged for added consistency delivering better performance and longevity
- Enhance ride quality while supplying superior grip
- Allow for dynamic low speed and high speed control optimizing handling and providing enhanced response time
- Upgrade performance in a multitude of applications- daily driving, street use, autocross and competitive on-track use
- Specific valving is available
- Complete Kits available from JRI Dealers



## Challenger / Charger Platform

As the official Mopar aftermarket shock supplier for the Dodge Dart, JRI Shocks knows Dodge vehicles are bred for performance. The JRI Dodge Charger/ Challenger shocks deliver performance inspired handling while providing superior grip of the road.

- Double adjustable, coilover
- Available for 2005-present year Dodge Charger and Challenger
- Nitrogen charged for added consistency, better performance and longevity
- Specific valving is available for street, road course and drag racing applications
- Complete Kits available from JRI Dealers



## IMPORT MARKET SHOCKS



Realizing that many amateur racing series are choosing rules that limit the use of remote reservoirs, JRi has developed professional level packages for the Honda S2000 and the Miata Platforms at a reasonable price. JRi's versatility shows through when you consider that the internal 2-way damper can provide up to 2,000 pounds of rebound adjustment range.



### Honda S2000

- Upgradable to 3 and 4-way configurations
- Internal double adjustable shaft
- Easily accessible adjusters
- Upgrade performance in a latitude of application – daily driving, street use, autocross and competitive on-track use
  - Specific valving is available
  - Fits all model years

### Miata Platform

- Available for MX3 and MX5 Series
- Upgradable to 3 and 4-way configurations
- Internal double adjustable shaft
- Easily accessible adjusters
- Upgrade performance in a latitude of applications – daily driving, street use, autocross and competitive on-track use
  - Specific valving is available
  - Offerings to fit all generations and model years



## PRO TOURING SHOCKS



Performance has been maximized to the next level for the Pro Touring enthusiast. JRi has taken its high performance racing shocks and applied them to the street performance market, giving you the advantage in race mode – AutoCross and Road Course – without sacrificing any ride comfort. All of the same quality and precision of a JRi racing shock is now available for your street car.

## TECHNICAL ADVANTAGES

- Custom built and dyno tested
- Monotube design for superior performance
- Nitrogen charged for added consistency
- Available in Non, Single, Double, Triple and 4-Way adjustability
- Custom valving options available to meet specific driver needs
- Lower hysteresis resulting in improved response time
- Upgradeable to 3-Way and 4-Way adjustable



## SPECIALTY MARKET SHOCKS



JRi can work with you utilizing our highly-experienced engineering staff to develop a tailored suspension solution that is unique to your vehicle. Our unique approach, advanced knowledge and unmatched service has led to podium finishes around the world and confidence in our work by the United States Military.

From shock absorbers, test equipment to integral data acquisition mechanisms, we can support a wide range of needs. JRi is armed with staff of Electronic, Mechatronics and Mechanical Engineers who are some of the most experienced minds in the business. JRi uses two leading design software packages, Pro-Engineer and SolidWorks, depending on the best way to communicate with the customer's technical preference and needs. In addition, JRi is capable of design-only applications and total turn-key mechanical/ electronic assemblies. We specialize in electronic controlled hydraulic devices as well as embedded micro sensors. JRi uses premiere quality components in our electronic and sensor selections.

At JRi, we don't have customers, we have relationships. With each project, a JRi Engineer is assigned and remains with the project from beginning to delivery and demonstration if required.





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