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## Why BDS Suspension?

BDS Suspension operates with one guiding premise—to provide true value to the customer by manufacturing the highest quality product at a competitive price, distributed and serviced by the premiere jobber/installer expert! What does this mean to you? Simple, we strive to have the best installation instructions, easy to install kits, best performing suspension systems, the best warranty in the business

and we're never out of inventory. If you want a lift kit and it's in this catalog, then it is available. In addition, we have a dedicated staff to assist you with any questions that arise and pride ourselves on strong customer service. We have built a strong web site to assist with application selection as well as technical information that is available 24 hours a day. We are constantly working on new product, so please check out the web site that is updated immediately when product is available.



### 2008 CATALOG

BDS Suspension's 2008 catalog is designed to be the most user friendly catalog in the truck suspension aftermarket. Through research and consultation with the experts—our BDS distributors and dealers—we have created several innovative features designed to assist in the sale of BDS Suspension.

These include:

- Add-A-Leaf and U-Bolt chart for high demand applications
- Coil Spring, Leaf Spring, and Add-A-Leaf Specifications
- Box Kit Component Breakdown
- Installation Time Guide provides "real time" estimates on labor hours and tire and wheel size information
- Pricing Code is available for instant price quotes
- Alignment Specifications
- OE Wheel Specifications

### DISTRIBUTION

BDS products are not available through mail order companies. We believe it is in the best interest of the consumer to distribute our product through a network of dedicated, experienced, 4WD enthusiasts.

Our distributors have installed our products, and have the ability to answer questions before and after the purchase. Our mission is customer satisfaction. We believe we can achieve that satisfaction by limiting the distribution of BDS products to expert installers.

### SHOP OWNERS

BDS Distributors are carefully selected by BDS Suspension. Our goal is to find honest, experienced, retail/installers who are 4WD enthusiasts. We look for shops who are committed to the 4WD market with a reputation for good customer service. If you feel that we have just described you and your operation and want to be considered for a distributorship, please call 517-279-7404.

### NO FINE PRINT WARRANTY

This unique warranty proves our commitment to the quality and reliability of every product we make. If you are the original purchaser of any BDS product and it breaks, we will give you a new part. Period.

The No Fine Print warranty does not include shock and stabilizer cylinders.

### SHOCK AND STABILIZER CYLINDER LIMITED LIFETIME WARRANTY

BDS Suspension Co. warrants to the original retail purchaser that its shock and stabilizer cylinders are free from defects in material and workmanship for so long as they own the vehicle. Excluded from this warranty are the finish of the product and mounting bushings. Defects in material and workmanship do not include such things as dented cylinders or bent rods caused by obvious side impact, rust, worn or deformed bushings. A shock absorber is a wear item and over time will experience diminished damping resistance due to normal component wear. This is not a defect in material or workmanship and is therefore not warrantable.

BDS Suspension's obligation under all warranties is limited to the repair or replacement, at BDS's option, of the defective material. Any cost of removal, installation or reinstallation, freight charges, incidental or consequential damages are expressly excluded from these warranties.

### DISCLAIMER

BDS Co. reserves the right to update products as necessary without notice, and will not be held responsible for misprints in this catalog or changes/variations made by vehicle manufacturers.

# BDS Brake Lines

One-Piece Crimp Design

Protective Vinyl Cover

Stainless Steel Braid

Protective Layer

Kevlar Braid



- Virtually no volumetric expansion → Firmer brake pedal feel with less pedal effort.
- Hose assemblies comply with D.O.T. Federal regulations (MVSS-106) → Legal for street use in all 50 States.
- Teflon inner core (chemically inert) → Approved for use with all brake fluids, including D.O.T. 5 Silicone. Resists moisture, very flexible.
- Five layer construction → Rugged construction that resists road shock and hazards. Higher fitting pull-off than other D.O.T. assemblies.
- Standard SAE female fittings and ends → Utilizes standard brake fittings and hardware.

## Pro-Ride Coil Spring Suspension Systems

Springs are either cold wound with chrome silicon 9254 or hot wound with 5160 to guarantee long life.



A polyester based powder coat is applied to ensure flexibility and durability.

Each spring is preset with a hydraulic stress to reduce fatigue in the steel and prevent sagging.

Shotpeening increases tensile strength and allows for maximum wheel travel without sacrificing the life of the spring.

BDS coil springs are designed to withstand full coil bind. In other words, you can smash our coils to totally flat and they will return to their original height.

## Glide-Ride Leaf Spring Suspension Systems

Shotpeening increases tensile strength and reduces fatigue while lessening the material thickness required. The thinner material allows for increased wheel travel and provides a softer ride.

Some applications include leaf springs with steel encased rubber bushings. Other applications include blue urethane bushings.



Anti-friction pads are placed between the leaves to reduce friction within the spring and noise from metal-to-metal contact.

Each spring is preset using hydraulic stress to reduce fatigue in the steel and prevent sagging.

Tapered and roll-pointed leaves add flexibility and provides an even deflection rate. Tapering allows a smoother transition between leaves as compression takes place, resulting in a softer ride with increased wheel travel.

Bolt-style leaf alignment clamps prevent leaves from fanning out and allow the leaves to twist and flex, yielding higher articulation.

## Polyurethane Products



All BDS polyurethane products are designed to our specs, to work with our components and provide the best performance possible. We use premium material to ensure accurate and consistent parts that offer distinct advantages over others on the market.

### APPLICATION SPECIFIC DUROMETER

BDS designs each polyurethane component with the correct durometer for the application in which it is used. This attention to detail ensures that:

- Control arm, leaf spring and shock bushings are flexible while maintaining excellent wear resistance
- Track bar bushings have a high durometer for solid axle control and to avoid undesirable handling characteristics
- Coil spring spacers are designed to maintain its shape for the life of your vehicle while still being soft enough to absorb unwanted vibrations

### GREASE GROOVES

One prominent feature of the majority of BDS bushings is the internal AND external fluting. While others offer internally fluted bushings only, BDS took it one step further to make a superior design that:

- Ensures all surfaces of the bushings receive lubrication
- Virtually eliminates dry bushings which means no squeaking and smooth, low friction operation
- Cuts bushing wear in half compared to bushings with only internal flutes
- Improves component flexibility by reducing resistance between the bushings and the mating components

## High Clearance Design

The new High Clearance or "HC" series of IFS lifts are new to the '08 catalog. These systems have many of the same features of our existing traditional IFS knuckle systems with the addition of:

### HIGH ARCHED CROSSMEMBERS

The main crossmembers in the new high clearance systems have been designed to maximize ground clearance while improving suspension and steering geometry over most systems on the market today. This new method of IFS design has many benefits over more traditional setups:

- Reduced camber change throughout wheel travel
- Entire system designed to put all suspension, steering and driveline angles in-phase, increasing performance and reducing wear on OE components
- Unique high clearance look

### NO TORSION BAR DROP SYSTEM

All new high clearance torsion bar applications include the new BDS No Torsion Bar Drop System. This is a BDS Suspension exclusive design that is unlike anything else on the market today:

- Relocation brackets bolt solid to the factory lower control arm
- No moving parts to wear out or break
- Torsion bar crossmember stays in the factory location keeping the torsion bars hidden inside the frame rails
- Factory torsion bar adjustment range is maintained...the torsion bars don't have to be "cranked" up to achieve the correct lift height



**HC**  
HIGH CLEARANCE

