

OFF-ROAD AND LIGHT TRUCK CATALOG.

Lifted Trucks | SUVs | Off-Road Racing



Setting the pace for over 50 years.

BILSTEIN introduced the very first monotube gas-pressure shock absorber to the extremely challenging world of off-road racing. It didn't take long for Baja racers to recognize the superior performance that this new technology provided and the wins started stacking up. In fact, most of off-road racing's renowned drivers have won on BILSTEIN shocks.

After 50 years of evolving monotube shock technology, the winning tradition continues, not only in Baja, but throughout the entire world of off-road racing. Every BILSTEIN off-road shock featured in this catalog is a true monotube high pressure gas shock; no emulsion, no foam cells, just performance. From the new BILSTEIN M 9200 Series for professional off-road racing, to the new BILSTEIN B8 6112 60mm suspension kit for your lifted truck or SUV, count on BILSTEIN to deliver the terrain-taming performance you're looking for. After all, we've been the leader since the very beginning.



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BILSTEIN's monotube technology.

Heat is one of the major detractors to the performance and longevity of any shock absorber. Conventional twin-tube designed shocks trap the heat within the shock body and do not let it adequately dissipate, making them prone to heat build-up, fade and eventual failure.

By contrast, BILSTEIN's superior monotube high gas-pressure design allows the excessive heat from the oil to transfer to the outer surface of the shock body and dissipate more efficiently. The dividing piston also permits the oil to expand as heat builds, preventing aeration (foaming) and viscosity loss. This allows the shock to maintain full damping characteristics as temperatures rise.

BILSTEIN's industry leading monotube design.

Provides superior tube strength while maximizing heat dissipation and shock life.

One piece aluminum rod guide & seal.

Keeps dirt out and maintains a nearly friction-free surface for longer life.

Hard chrome piston rod.

Features a super finished hard chrome plated surface with a maximum peak-to-valley measurement of .0002mm.

Self-adjusting digressive piston.

Instantly reacts and adjusts for any condition. Provides maximum vehicle body motion control while maintaining superior comfort.

High pressure nitrogen gas & "floating" dividing piston.

Nitrogen gas maintains constant pressure against the low mass "floating" dividing piston and column of hydraulic oil, eliminating the possibility of oil foaming and performance loss.

Pressure differentials.

Shock oils contain roughly 10% gas molecules. The compression and rebound strokes of the shock piston in the oil column may cause pressure differentials. When the piston rod is forced quickly into the shock tube, the pressure increases in front of the piston and decreases behind it.

These pressure differentials release gas molecules from the oil column which may cause small bubbles (foaming). The foaming can become so excessive that damping force is severely reduced. The shock becomes unresponsive with a corresponding loss of vehicle control.

In a monotube gas-pressure shock absorber, the nitrogen is separated from the oil by a dividing piston. This keeps the oil column under pressure at all times to prevent the release of gas molecules while enabling the shock to deliver consistent performance under all driving conditions.



Non-pressurized shock, foaming



Gas-pressure shock, no foaming



BILSTEIN monotube piston



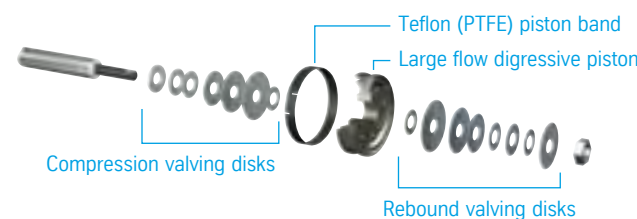
Twin-tube piston

Monotube vs. twin-tube.

BILSTEIN's monotube piston has 228% larger surface area than the average conventional twin-tube piston offering greater sensitivity and superior vehicle control.

BILSTEIN's digressive working piston assembly.

The piston head design allows independent tuning of the compression and rebound damping forces to provide optimum ride comfort and performance without compromise. It features fewer parts than most conventional twin-tubes and so-called "road sensing" shock designs. This simple, yet exceptionally functional digressive design contributes to the extreme durability and long life of BILSTEIN shocks.



Technology icon guide.



BILSTEIN original equipment.

For more than 60 years, we have been the development partner of choice for the suspension and shock absorber systems of renowned automakers.



BILSTEIN gas-pressure technology.

In the 1950s, we developed gas-pressure technology to prevent damping power reduction caused by oil foaming.



BILSTEIN monotube technology.

Our monotube shocks provide greater damping power due to a larger surface area on the piston resulting in improved handling and consistent performance.



BILSTEIN road test.

BILSTEIN shock absorbers undergo rigorous testing for objective criteria including safety, braking, steering behavior, dynamic driving, and comfort.



BILSTEIN zinc and nickel plating.

Featured on select off-road suspension systems, zinc or nickel plated coatings increase durability and expand the lifetime of the shock.



BILSTEIN ride height adjustment.

Our ride height adjustment products are thoroughly tested by BILSTEIN engineers. The two icons above indicate a lifting or lowering kit.



Snap ring ride height adjustment.

Multiple OEM specified snap ring grooves are featured on select off-road shock absorbers for quick and easy adjustment to your vehicle's ride height.



Large off-road piston.

Due to its increased surface area, our large off-road piston design enables a finer, controlled ride over rough terrain.



Remote reservoir.

With a remote reservoir, oil capacity is expanded, increasing wheel travel and creating greater heat dissipation for long-term durability.

OEM certified shock mounts.

All direct fit BILSTEIN shock absorbers have extremely durable and long lasting vulcanized neoprene rubber bushings with vehicle specific sleeves or cast crossbars.



Vulcanized neoprene bushings



Eye mount



Crossbar mount



Large eye mount



DIRECT FIT.

BILSTEIN B6 4600.

When the road runs out.

BILSTEIN B6 4600 gas-pressure shock absorbers are ideal for all those who feel at home on and off the road. Precise adjustments increase the suspension's carrying capacity, and reduce uncontrolled movement on SUVs and light trucks. A more confident steering feel guarantees better control of your vehicle, safer handling and increased traction.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance in all conditions
- Specific tuning for stock height vehicles
- OEM certified mounting hardware
- Individually fine-tuned during the BILSTEIN road test
- Made in the USA
- Limited lifetime warranty

Applications:

Please visit cart.bilsteinUS.com to find a full list of applications by year, make and model.

Ride height:

Stock



DIRECT FIT

BILSTEIN B8 5100.

For the rocky road ahead.

Due to their larger tires and heightened stance, lifted vehicles place extra demands on a shock absorber's damping ability. BILSTEIN B8 5100 shock absorbers monotube design and patented digressive valving is uniquely suited to confront these demands. On or off-road, loaded or unloaded, BILSTEIN B8 5100 shock absorbers instantly react to changing road inputs to maintain a stable, controlled, and comfortable ride.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance in all conditions
- Patented digressive valving instantly reacts to changing surface conditions
- Vehicle specific tuning
- OEM certified mounting hardware allows for easy installation
- Zinc plated for resistance against harsh elements
- Made in the USA
- Limited lifetime warranty

Ride height:

2 - 6"¹



BILSTEIN B8 5100 (Ride Height Adjustable).

The perfect height.

Designed to level out the front of half-ton trucks and SUVs, BILSTEIN B8 5100 (Ride Height Adjustable) shock absorbers are the perfect alternative to coil spring spacers. Lose no time on the trail — these shock absorbers use your vehicle's OEM springs and mounting hardware for an easy, direct-fit installation.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance
- Practical alternative to coil spring spacers, with the benefit of BILSTEIN monotube technology
- Adjustable spring perch for vehicle lift up to 2.75in¹
- Increases suspension travel
- Utilizes vehicle's stock front coil springs and OEM mounting hardware
- Vehicle specific tuning
- Made in the USA
- Limited lifetime warranty

Ride height:

0 - 2.75"¹



Adjustable Spring Perch

Multiple OEM specified snap-ring grooves allow for different spring seat positions. Levels and lifts vehicle 0-2.75in.¹



DIRECT FIT

¹depending on application

¹depending on application

BILSTEIN B8 5112. BILSTEIN B8 5162.

A level playing field.

BILSTEIN B8 5112 and B8 5162 high performance leveling kits provide more ground clearance, increase wheel travel, and will allow for up to 35" tires. These simple yet effective kits will mount into the factory location with no modifications. BILSTEIN B8 5112 and B8 5162 suspension kits provide a smooth and stable ride both on and off-road.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance in all conditions
- **B8 5112:**
(2) B8 5100 shocks and (2) matched springs
- **B8 5162:**
(2) B8 5160 shocks and (2) matched springs with added benefits of a remote reservoir
- Self-adjusting deflective disc valving reacts immediately to surface changes enabling maximum vehicle control
- OEM certified mounting hardware allows for easy installation
- Vehicle specific tuning
- Zinc plated for resistance against harsh elements
- Made in the USA
- Limited lifetime warranty

Ride height:

2 - 2.3"¹



BILSTEIN B8 5162

B8 5112 shown.

BILSTEIN B8 5160.

For the aggressive off-road.

With an added remote reservoir, BILSTEIN B8 5160 shock absorbers provide ultimate vehicle control on even the harshest terrains. Zinc plating and increased oil capacity dissipate heat more effectively assuring long-term durability.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance
- Self-adjusting deflective disc valving reacts immediately to surface changes enabling maximum vehicle control
- Remote reservoir increases shock oil capacity for greater heat dissipation
- Designed to easily install in vehicle's stock mounting locations
- Unique swivel banjo fitting on reservoir allows for 360° rotation
- Vehicle specific tuning
- Increases wheel travel¹
- Made in the USA
- Limited 90 day warranty

Ride height:

2 - 6"¹

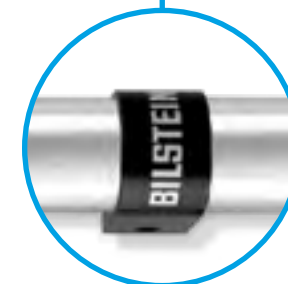


Swivel Mount

Unique swivel banjo fittings allow for 360° of rotation.

Optional Billet Clamp (Part #11-176015)

Optional billet aluminum reservoir mounting clamp available.



Frame Mounts

B8 5160 shock absorbers include a vehicle specific reservoir frame mount.¹



DIRECT FIT

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¹depending on application ²B8 5162 only

¹depending on application

BILSTEIN B8 6112.



The best of both worlds.

Designed for the serious off-road adventure seeker, BILSTEIN B8 6112 suspension kits are the ultimate suspension solution. This front coilover kit optimizes off-road and on-road capabilities with a 60mm digressive piston for increased damping control, and bolts into factory mounts.

The shock absorbers included in BILSTEIN B8 6112 suspension kits come equipped with an adjustable spring seat perfect for leveling your vehicle, increasing ground clearance, and installing larger tires.

Features & benefits:

- Large 60mm body for increased oil capacity, cooling, and long-term durability
- 60mm digressive piston improves ride comfort and control over rough terrain
- Vehicle specific tuning
- Monotube design ensures consistent, fade-free performance in all conditions
- Adjustable spring seat offers 0-2.75in of lift¹
- Custom engineered cold wound linear springs for enhanced vehicle control and ride comfort
- Kit includes (2) 60mm shock absorbers, (2) billet hard anodized spring seats, and (2) springs
- Available for late model trucks and SUVs which utilize a front coilover suspension
- Made in the USA
- Limited lifetime warranty

Ride height:

0 - 2.75"¹



OEM Top Mount

OEM top mounts and isolators are reused for trouble-free operation.

BILSTEIN B8 8100 (Bypass).

The best.

BILSTEIN B8 8100 (Bypass) is a direct fit, position sensitive damper specifically designed for light trucks and SUVs. Bypass shock absorbers offer the most compliant ride in all conditions and provide maximum bottom out control when the road gets rough. Utilizing an adjustable external bypass shock is the easiest and most effective way to tune your suspension for ultimate performance.

Features & benefits:

- Dual tube external bypass offers position sensitive damping with independent adjustment for rebound and compression
- Incremental flow adjuster offers finite and incremental changes in damping force for precise adjustments
- Vehicle specific tuning with the ability to make a wide range of adjustments
- 60mm large bore hard anodized aluminum piston offers a greater range of damping control and delivers exceptional long-term durability
- Bottom port reservoir hose provides increased bottom out control during the compression cycle
- 60mm remote reservoir with machined aluminum chassis mounts
- 18mm piston rod provides brute tensile strength and reduces internal gas force ramp-up providing a smoother ride
- Billet rod end with vulcanized mounts for an exact OE fit and long-term durability
- Direct fit for easy installation
- Owner rebuildable



Bump Zone

The Bump Zone, located above the compression bypass tube, increases bottoming control and eliminates the need for a hydraulic bump stop.



DIRECT FIT

BILSTEIN B8 8112 (ZoneControl® CR).

Damping perfected.

Never before has so much capability been packed into one direct fit suspension kit. BILSTEIN B8 8112 (ZoneControl® CR) suspension kit incorporates new, revolutionary technology, delivering position sensitive damping in both compression and rebound. ZoneControl® CR combines unparalleled comfort during everyday driving conditions with maximum control under large suspension inputs. BILSTEIN B8 8112 (ZoneControl® CR) suspension kit will enhance your suspension performance to a level that will defy convention.

Features & benefits:

- ZoneControl® CR: Position sensitive damping with 3 compression zones and 2 rebound zones, controlled by 3 independent pistons
 - Compression (C): Provides superior bottom out control through a 2-stage, telescoping internal compression stop. This feature eliminates the need for an external hydraulic bump stop
 - Rebound (R): Secondary rebound stop will dissipate spring energy and stabilize the suspension directly following a large compression event. The internal rebound stop will also eliminate harsh top-out events and the need for an external limit strap
- Triple piston design delivers comfort during every day driving conditions and maximum control under large suspension inputs
- Adjustable threaded spring seat allows for fine-tuned ride height
- 60mm remote reservoir for increased oil capacity and cooling
- Vehicle specific design and tuning provides the ultimate driving experience. Aerospace quality components are vehicle specific to optimize wheel travel and clearance
- High quality chrome 5/8" heim joint mounting with rubber sealed misalignment spacers offer the most durable, load bearing mount solution
- Aluminum components with zinc plated shock bodies will resist harsh off-road elements
- Coilover supplied as a complete module for easy installation. Spring is pre-loaded to the factory recommended ride height
- Factory rebuildable
- Made in the USA

Ride height:

0.6 - 2.5"

ZoneControl® CR.

ZoneControl® CR delivers position sensitive damping with 3 compression zones and 2 rebound zones, controlled by 3 independent pistons. Three key internal features produce ZoneControl® CR:

- JCO System
- Triple Piston Design
- RCO System

JCO SYSTEM.

The Jounce Cut Off (JCO) system is comprised of two components: the JCO secondary compression valve piston and the 2-stage telescoping compression stop.

The JCO system provides bottom out control when the JCO secondary compression valve piston engages the 2-stage telescoping internal compression stop. This feature eliminates the need for an external hydraulic bump stop.

TRIPLE PISTON DESIGN.

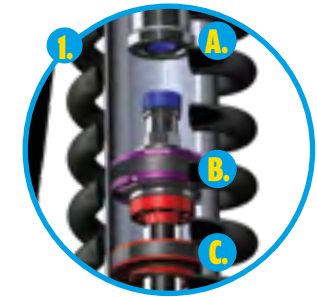
ZoneControl® CR features a triple piston design for unparalleled comfort during every day driving conditions without sacrificing maximum control off-road. The 3 independent working pistons include:

- JCO (Jounce Cut Off) secondary compression valve piston
- Main 60mm digressive piston
- RCO (Rebound Cut Off) secondary rebound valve piston

RCO SYSTEM.

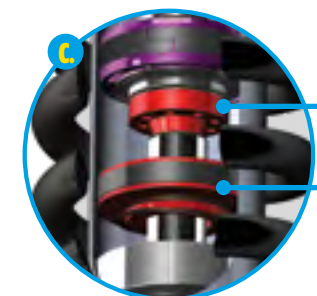
The Rebound Cut Off (RCO) system is comprised of two components: the RCO secondary rebound valve piston and the internal rebound stop.

The RCO system effectively decelerates the spring when the RCO secondary rebound valve piston engages the internal rebound stop.



Telescoping Internal Compression Stop

JCO Secondary Compression Valve Piston



RCO Secondary Rebound Valve Piston

Internal Rebound Stop

DIRECT FIT





CUSTOM FIT.

BILSTEIN B8 5125. BILSTEIN B8 5165.

Custom fitment perfected.

Designed for modified or specialty vehicles, BILSTEIN B8 5125 and BILSTEIN B8 5165 shock absorbers combine superior suspension technology with custom lengths and valvings. BILSTEIN B8 5125 is based on BILSTEIN B8 5100 technology, while BILSTEIN B8 5165 is based on BILSTEIN B8 5160 technology.

Features & benefits:

- 46mm monotube design ensures consistent, fade-free performance
- Self-adjusting deflective disc valving
- Remote reservoir increases shock oil capacity for greater heat dissipation¹
- High-flow piston reduces harshness
- Available in stem-to-eye and eye-to-eye mounting configurations
- Zinc coating for resistance to off-road elements
- Custom valving available¹
- Factory rebuildable
- Made in the USA

Shock travel:

4.5 - 14.3"



BILSTEIN B8 5165

B8 5125 shown.



CUSTOM FIT

¹B8 5165 only

BILSTEIN M 7100. BILSTEIN M 7100 Classic.

Endless options. Endless capability.

The legendary BILSTEIN M 7100 and M 7100 Classic shock absorbers are perfect for meeting the demands of custom motorsports and off-road recreational vehicles. BILSTEIN M 7100 shock absorbers are completely owner rebuildable, while M 7100 Classic shock absorbers are sealed and factory serviceable. VW specific off-road fitments are available in both M 7100 and M 7100 Classic.

Features & benefits:

- 46mm monotube design for consistent, fade-free performance
- Self-adjusting deflective disc valving
- High-flow piston reduces harshness
- Available in multiple lengths and valve settings
- Available in non-reservoir version²
- Coilover available
- ½" heim joint mounts

Shock travel:

5 - 10"¹
8 - 14"²



BILSTEIN M 7100 Classic



M 7100 shown.

BILSTEIN B8 8125.

For the off-road enthusiast.

The ideal shock absorber for custom coilover applications that demand competition-level performance. Featuring the highest quality machined components, BILSTEIN B8 8125 shock absorbers provide durability, strength and performance in the harshest environments.

Features & benefits:

- Available in 46mm and 60mm monotubes for consistent, fade-free performance
- Threaded body with dual-rate coilover hardware
- Remote reservoir for greater resistance to heat and increased travel length
- High temperature seal extends life of shock
- 22mm case hardened piston rod provides brute tensile strength while resisting sand blasting and rock chipping
- Zinc plated for resistance to off-road elements
- High temperature, size -8 hose
- All components are billet machined; no cast parts
- Industry standard 5/8" bearing
- Owner rebuildable
- Made in the USA

Shock travel:

5 - 16"



CUSTOM FIT

BILSTEIN B8 8125 uses industry standard coilover springs

- 46mm shock uses a 2.5" ID coilover spring
- 60mm shock uses a 3.0" ID coilover spring

¹M 7100 Classic only

²M 7100 only

³depending on application





**PROFESSIONAL
OFF-ROAD RACING.**

BILSTEIN M 9200 (Bypass).

Performance dialed in.

BILSTEIN M 9200 (Bypass) shock absorbers are position sensitive and adjustable, offering 6 zones of damping control and 4 external adjusters: 2 rebound and 2 compression. Utilizing an externally adjustable bypass shock absorber is the easiest and most effective way to tune your off-road suspension for ultimate performance.

Features & benefits:

- 60mm¹ and 70mm¹ monotube designs for consistent, fade-free performance
- 4 and 3 tube, position sensitive with adjustable rebound and compression
- Multiple stroke lengths available ranging from 8" to 18"
- 60mm¹ piggy back or remote reservoir
- Case hardened, centerless ground piston rod
- All machine billet aluminum components
- 5/8" stainless uniball mounts with 1/2" step spacers
- 3 stage high-temp seal
- Red synthetic high-temp racing oil
- Zinc plated
- Owner rebuildable
- Made in the USA

Shock travel:

8 - 18"



¹BILSTEIN measures shock size by piston diameter. Outer body diameter is the industry standard measurement for off-road shocks.

BILSTEIN Piston Diameter	Outer Body Diameter
60mm	2.65"
70mm	3.0"



PROFESSIONAL



BILSTEIN M 9200 (Coilover).

Created to compete.

Developed for professional off-road racing. The superior design of BILSTEIN M 9200 (Coilover) is comprised of aerospace-class materials and engineered to the tightest tolerances. Available in multiple lengths and valvings for a wide range of custom race applications.

Features & benefits:

- Available in 46mm¹ and 60mm¹ monotubes
- Threaded body with dual rate coilover hardware
- Multiple stroke lengths available ranging from 8" to 16"
- Case hardened, centerless ground 22mm piston rod
- Machine billet aluminum components
- 5/8" uniball mounts with 1/2" step spacers
- 60mm remote reservoir
- 3 stage high-temp seal
- Red synthetic high-temp racing oil
- Zinc plated
- Multiple valvings available
- Owner rebuildable
- Made in the USA

BILSTEIN M 9200 (Coilover) uses industry standard coilover springs

- 46mm¹ shock uses a 2.5" ID coilover spring
- 60mm¹ shock uses a 3.0" ID coilover spring

Shock travel:

8 - 16"



¹BILSTEIN measures shock size by piston diameter. Outer body diameter is the industry standard measurement for off-road shocks.

BILSTEIN Piston Diameter	Outer Body Diameter
46mm	2.0"
60mm	2.65"

60mm Anti-Cavitation Valve (ACV).



Anti-Cavitation Valve: B4-FU0-Z005A01

The 60mm ACV is a stationary piston which can be optionally located at the port of the remote reservoir attached to 9200 Series shock absorbers. The ACV is designed to exponentially increase the internal pressure on the shock oil as the velocity of the shaft stroke increases. By virtually eliminating the possibility of shock fade due to cavitation, the shock is able to reach high levels of operating performance.

Additionally, the 60mm ACV allows for a broader range of damping, offering a comfortable ride while maintaining a superior level of control. The ability to adjust the valving of both the main piston and the ACV offers a limitless number of achievable combinations for unequaled damping performance. Proper tuning of this system greatly reduces the event of hard bottoming at full compression.

The ACV is primarily recommended for front application coilover and smooth body shock absorbers. If you are interested in this added feature, please consult the BILSTEIN Off-Road Racing Department for proper tuning specifications.

Bump stops.

BILSTEIN bump stops feature extremely durable Delrin® strike pads. The Delrin® pads are simple to replace and offer a cost effective replacement to aluminum tips, plus they can be retrofitted to earlier model bump stops. BILSTEIN bump stops are available in 2", 3" and 4" travel lengths.

Features & benefits:

- Thick-walled monotube design
- Seamless steel and electroless nickel finished body
- Universal frame bracket fitment (2" O.D.)
- 1 1/4" hardened chrome steel shaft
- Nitrogen pressure adjustable



Part #	Travel	Description	Valving	Reservoir	Extended	Collapsed
M 7100 SERIES <i>continued</i>						
10" Travel						
B46-1103S	10"	Coilover w/ Hardware	255/100	N	26.65"	17.44"
B46-1103R	10"	Coilover w/ Hardware	255/100	Y	26.65"	17.44"
12" Travel						
AK7112R01	12"	Reservoir Shock	150/50	Y	31.10"	19.53"
AK7112S01	12"	Non-Reservoir Shock	150/50	N	31.10"	19.53"
AK7112SB01	12"	Reservoir Short Body	150/50	Y	27.68"	16.10"
B46-1353R	12"	Reservoir Shock	170/60	Y	31.10"	19.53"
B46-1353S	12"	Non-Reservoir Shock	170/60	N	31.10"	19.53"
AK7112SB	12"	Reservoir Short Body	170/60	Y	27.68"	16.10"
AK7112R03	12"	Reservoir Shock	180/75	Y	31.10"	19.53"
AK7112S03	12"	Non-Reservoir Shock	180/75	N	31.10"	19.53"
AK7112SB03	12"	Reservoir Short Body	180/75	Y	27.68"	16.10"
AK7112R04	12"	Reservoir Shock	255/70	Y	31.10"	19.53"
AK7112S04	12"	Non-Reservoir Shock	255/70	N	31.10"	19.53"
AK7112SBB	12"	Reservoir Short Body	255/70	Y	27.68"	16.10"
B46-1351R	12"	Reservoir Shock	275/78	Y	31.10"	19.53"
B46-1351S	12"	Non-Reservoir Shock	275/78	N	31.10"	19.53"
AK7112SBA	12"	Reservoir Short Body	275/78	Y	27.68"	16.10"
B46-0350R	12"	Reservoir Shock	360/80	Y	31.10"	19.53"
B46-0350S	12"	Non-Reservoir Shock	360/80	N	31.10"	19.53"
AK7112SB06	12"	Reservoir Short Body	360/80	Y	27.68"	16.10"
AK7112R99	12"	Reservoir Shock	Custom	Y	31.10"	19.53"
AK7112S99	12"	Non-Reservoir Shock	Custom	N	31.10"	19.53"
AK7112SB99	12"	Reservoir Short Body	Custom	Y	27.68"	16.10"

14" Travel						
AK7114R01	14"	Reservoir Shock	150/50	Y	35.22"	20.83"
AK7114S01	14"	Non-Reservoir Shock	150/50	N	35.22"	20.83"
AK7114SB01	14"	Reservoir Short Body	150/50	Y	33.84"	19.53"
AK7114RA	14"	Reservoir Shock	170/60	Y	35.22"	20.83"
AK7114SA	14"	Non-Reservoir Shock	170/60	N	35.22"	20.83"
AK7114SBA	14"	Reservoir Short Body	170/60	Y	33.84"	19.53"
AK7114R03	14"	Reservoir Shock	180/75	Y	35.22"	20.83"
AK7114S03	14"	Non-Reservoir Shock	180/75	N	35.22"	20.83"
AK7114SB03	14"	Reservoir Short Body	180/75	Y	33.84"	19.53"
AK7114R04	14"	Reservoir Shock	255/70	Y	35.22"	20.83"
AK7114S04	14"	Non-Reservoir Shock	255/70	N	35.22"	20.83"
AK7114SB	14"	Reservoir Short Body	255/70	Y	33.84"	19.53"
AK7114R05	14"	Reservoir Shock	275/78	Y	35.22"	20.83"
AK7114S05	14"	Non-Reservoir Shock	275/78	N	35.22"	20.83"
AK7114SB05	14"	Reservoir Short Body	275/78	Y	33.84"	19.53"
AK7114R06	14"	Reservoir Shock	360/80	Y	35.22"	20.83"
AK7114S	14"	Non-Reservoir Shock	360/80	N	35.22"	20.83"
AK7114SB06	14"	Reservoir Short Body	360/80	Y	33.84"	19.53"
AK7114R99	14"	Reservoir Shock	Custom	Y	35.22"	20.83"
AK7114S99	14"	Non-Reservoir Shock	Custom	N	35.22"	20.83"
AK7114SB99	14"	Reservoir Short Body	Custom	Y	33.84"	19.53"

VW Off-Road						
B46-0930R*	5.36"	Rear Swing Axle or IRS	345/135	Y	16.04"	10.81"
B46-0930S*	5.36"	Rear Swing Axle or IRS	345/135	N	16.04"	10.81"
B46-1085R	6.65"	Front Ball Joint Beam Cut and Turned	220/115	Y	18.46"	11.83"
B46-1085S	6.65"	Front Ball Joint Beam Cut and Turned	220/115	N	18.46"	11.83"

Part #	Description
M 7100 SERIES SEAL KIT	
B4-KT0-Y019A00	M 7100 Series Rebuild Kit

Part#	Travel	Description	Valving	Reservoir	Shaft Diameter	Extended	Collapsed
B8 8125 SERIES 46mm1 (2")							
33-225463	5"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	17.00"	12.00"
33-225487	6"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	19.00"	13.00"
33-225500	8"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	23.00"	15.00"
33-225524	10"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	27.00"	17.00"
33-225548	12"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	31.50"	19.50"
33-225562	14"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	35.50"	21.50"
33-225586	16"	46mm ¹ Coilover w/ Hardware	255/100	46mm ¹	22mm	39.50"	23.50"

B8 8125 SERIES 60mm1 (2.65")							
8" Travel							
33-225494	8"	60mm ¹ Coilover Short Body w/ Hardware	370/110	60mm ¹	22mm	24.00"	16.00"
33-225579	8"	60mm ¹ Coilover w/ Hardware	370/110	60mm ¹	22mm	25.50"	17.50"

10" Travel							
33-225517	10"	60mm ¹ Coilover Short Body w/ Hardware	370/110	60mm ¹	22mm	28.50"	18.50"
33-225593	10"	60mm ¹ Coilover w/ Hardware	370/110	60mm ¹	22mm	29.50"	19.50"

12" Travel							
33-225531	12"	60mm ¹ Coilover Short Body w/ Hardware	370/110	60mm ¹	22mm	32.50"	20.50"
33-225616	12"	60mm ¹ Coilover w/ Hardware	370/110	60mm ¹	22mm	33.50"	21.50"

14" Travel							
33-225555	14"	60mm ¹ Coilover Short Body w/ Hardware	370/110	60mm ¹	22mm	37.00"	23.00"
33-225630	14"	60mm ¹ Coilover w/ Hardware	370/110	60mm ¹	22mm	38.50"	24.50"

16" Travel							
33-225654	16"	60mm ¹ Coilover Standard Body	370/110	60mm ¹	22mm	42.50"	26.50"

Part #	Description
B8 8125 SERIES SEAL KIT	
B4-KT1-Z292A00	Reservoir Mount Kit, 60mm, Off Road
B4-KT1-Z315A00	Reservoir Mount Kit, 46mm, Off Road
B4-KT0-Z024A01	Complete Seal Rebuilt Kit, 60mm x 22mm
B4-KT0-Z023A01	Complete Seal Rebuilt Kit, 46mm x 22mm

BILSTEIN Piston Diameter	Outer Body Diameter
46mm	2.0"
60mm	2.65"

¹BILSTEIN measures shock size by piston diameter. Outer body diameter is the industry standard measurement for off-road shocks.

Professional off-road racing applications.

Part#	Travel	Description	Valving	Reservoir	Shaft Diameter	Extended	Collapsed
M 9200 BYPASS 70mm¹ (3")							
3 TUBE BYPASS							
33-250618	10"	Off-road 70mm, 3 Tube Bypass, 10" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	29.5"	19.5"
33-250625	10"	Off-road 70mm, 3 Tube Bypass, 10" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	29.5"	19.5"
33-250632	12"	Off-road 70mm, 3 Tube Bypass, 12" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	33.5"	21.5"
33-250649	12"	Off-road 70mm, 3 Tube Bypass, 12" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	33.5"	21.5"
33-250656	14"	Off-road 70mm, 3 Tube Bypass, 14" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	38.5"	24.5"
33-250663	14"	Off-road 70mm, 3 Tube Bypass, 14" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	38.5"	24.5"
33-250670	16"	Off-road 70mm, 3 Tube Bypass, 16" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	42.5"	26.5"
33-250687	16"	Off-road 70mm, 3 Tube Bypass, 16" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	42.5"	26.5"
33-250694	18"	Off-road 70mm, 3 Tube Bypass, 18" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	46.5"	28.5"
33-250700	18"	Off-road 70mm, 3 Tube Bypass, 18" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	46.5"	28.5"

4 TUBE BYPASS							
33-250748	10"	Off-road 70mm, 4 Tube Bypass, 10" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	29.5"	19.5"
33-250755	10"	Off-road 70mm, 4 Tube Bypass, 10" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	29.5"	19.5"
33-250762	12"	Off-road 70mm, 4 Tube Bypass, 12" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	33.5"	21.5"
33-250779	12"	Off-road 70mm, 4 Tube Bypass, 12" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	33.5"	21.5"
33-250786	14"	Off-road 70mm, 4 Tube Bypass, 14" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	38.5"	24.5"
33-250793	14"	Off-road 70mm, 4 Tube Bypass, 14" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	38.5"	24.5"
33-250809	16"	Off-road 70mm, 4 Tube Bypass, 16" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	42.5"	26.5"
33-250816	16"	Off-road 70mm, 4 Tube Bypass, 16" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	42.5"	26.5"
33-250823	18"	Off-road 70mm, 4 Tube Bypass, 18" Stroke, Left Side	Adjustable	60mm Piggyback ²	1 1/8"	46.5"	28.5"
33-250830	18"	Off-road 70mm, 4 Tube Bypass, 18" Stroke, Right Side	Adjustable	60mm Piggyback ²	1 1/8"	46.5"	28.5"

M 9200 BYPASS 60mm¹ (2.65")							
3 TUBE BYPASS							
33-269528	8"	Off-road 60mm, 3-Tube Bypass, 8" Stroke, Standard Body, Left Side	Adjustable	60mm Piggyback ²	22mm	25.5"	17.5"
33-269535	8"	Off-road 60mm, 3-Tube Bypass, 8" Stroke, Standard Body, Right Side	Adjustable	60mm Piggyback ²	22mm	25.5"	17.5"
33-269542	10"	Off-road 60mm, 3-Tube Bypass, 10" Stroke, Standard Body, Left Side	Adjustable	60mm Piggyback ²	22mm	29.5"	19.5"
33-269559	10"	Off-road 60mm, 3-Tube Bypass, 10" Stroke, Standard Body, Right Side	Adjustable	60mm Piggyback ²	22mm	29.5"	19.5"
33-269566	12"	Off-road 60mm, 3-Tube Bypass, 12" Stroke, Standard Body, Left Side	Adjustable	60mm Piggyback ²	22mm	33.5"	21.5"
33-269573	12"	Off-road 60mm, 3-Tube Bypass, 12" Stroke, Standard Body, Right Side	Adjustable	60mm Piggyback ²	22mm	33.5"	21.5"
33-269580	14"	Off-road 60mm, 3-Tube Bypass, 14" Stroke, Standard Body, Left Side	Adjustable	60mm Piggyback ²	22mm	38.5"	24.5"
33-269597	14"	Off-road 60mm, 3-Tube Bypass, 14" Stroke, Standard Body, Right Side	Adjustable	60mm Piggyback ²	22mm	38.5"	24.5"
33-269603	16"	Off-road 60mm, 3-Tube Bypass, 16" Stroke, Standard Body, Left Side	Adjustable	60mm Piggyback ²	22mm	42.5"	26.5"
33-269610	16"	Off-road 60mm, 3-Tube Bypass, 16" Stroke, Standard Body, Right Side	Adjustable	60mm Piggyback ²	22mm	42.5"	26.5"

M 9200 SERIES COILOVER							
M 9200 SERIES COILOVER 60mm¹ (2.65")							
33-243764	8"	60mm ¹ Coilover w/ Hardware	180/75	60mm ¹	22mm	25.5"	17.5"
33-244464	8"	60mm ¹ Coilover w/ Hardware	255/100	60mm ¹	22mm	25.5"	17.5"
33-244518	8"	60mm ¹ Coilover w/ Hardware	360/80	60mm ¹	22mm	25.5"	17.5"
33-243771	10"	60mm ¹ Coilover w/ Hardware	180/75	60mm ¹	22mm	29.5"	19.5"
33-244471	10"	60mm ¹ Coilover w/ Hardware	255/100	60mm ¹	22mm	29.5"	19.5"
33-244525	10"	60mm ¹ Coilover w/ Hardware	360/80	60mm ¹	22mm	29.5"	19.5"
33-243788	12"	60mm ¹ Coilover w/ Hardware	180/75	60mm ¹	22mm	33.5"	21.5"
33-244488	12"	60mm ¹ Coilover w/ Hardware	255/100	60mm ¹	22mm	33.5"	21.5"
33-244532	12"	60mm ¹ Coilover w/ Hardware	360/80	60mm ¹	22mm	33.5"	21.5"
33-243795	14"	60mm ¹ Coilover w/ Hardware	180/75	60mm ¹	22mm	38.5"	24.5"
33-244495	14"	60mm ¹ Coilover w/ Hardware	255/100	60mm ¹	22mm	38.5"	24.5"
33-244549	14"	60mm ¹ Coilover w/ Hardware	360/80	60mm ¹	22mm	38.5"	24.5"
33-243801	16"	60mm ¹ Coilover w/ Hardware	180/75	60mm ¹	22mm	42.5"	26.5"
33-244501	16"	60mm ¹ Coilover w/ Hardware	255/100	60mm ¹	22mm	42.5"	26.5"
33-244556	16"	60mm ¹ Coilover w/ Hardware	360/80	60mm ¹	22mm	42.5"	26.5"

Part#	Travel	Description	Valving	Reservoir	Shaft Diameter	Extended	Collapsed
M 9200 SERIES COILOVER							
M 9200 SERIES CARRIER 46mm¹ (2" NON-RESERVOIR)							
33-243528	8"	46mm ¹ Coil-Carrier w/ Hardware	N/A	No	22mm	23.0"	15.0"
33-243535	10"	46mm ¹ Coil-Carrier w/ Hardware	N/A	No	22mm	27.0"	17.0"
33-243542	12"	46mm ¹ Coil-Carrier w/ Hardware	N/A	No	22mm	31.5"	19.5"
33-243559	14"	46mm ¹ Coil-Carrier w/ Hardware	N/A	No	22mm	35.5"	21.5"
33-243566	16"	46mm ¹ Coil-Carrier w/ Hardware	N/A	No	22mm	39.5"	23.5"

M 9100 BUMP STOP							
F4-BE5-G722-M0	2"	Bump Stop w/ Delrin® Tip	Standard	N/A	N/A	11.2"	9.42"
F4-BE5-G723-M0	3"	Bump Stop w/ Delrin® Tip	Standard	N/A	N/A	12.2"	9.42"
F4-BE5-G724-M0	4"	Bump Stop w/ Delrin® Tip	Standard	N/A	N/A	13.2"	9.42"

Part #	Description
M 9100 BUMP STOP SEAL KIT	
B4-KT0-Z001A00	Bump Stop Seal Kit
B4-KT0-Z038A00	Bump Stop Contact Pad Kit
E4-XK1-Z060A00	Contact Pad Cover
1000932	Roll Pin, ASME B18.8.2, 0.25" x 2.0"

M 9200 SEAL KIT	
B4-KT0-Y002A00	60mm rod guide seal kit
B4-KT0-Y006A00	46mm rod guide seal kit

M 9200 Series technical specifications.

Coilover Body: Monotube Seamless Steel 60mm or 46mm ACME Thread

Bypass Body(4-Tube): Monotube, Seamless Steel 60mm, 70mm

Piston Rod (70mm Shocks): 1¹/₈" Centerless Ground, Case Hardened

Piston Rod (46mm and 60mm shocks): 22mm Centerless Ground, Case Hardened

Piston: 7075 Machined Aluminum, Hard Anodized

Piston (46mm shocks): Centered Metal

Valving: Deflective Disc, Velocity Sensitive. Independent Rebound and Compression Tuning

Piston Wear Band: Bronze with DP4 Coating. O-Ring Tensioned

Seal: 3 Stage High Temperature (Cup Seal, High Pressure Seal, Wiper)

Reservoir: 60mm Machined Seamless Steel

Dividing Piston: Machined Aluminum, Hard Anodized with Viton O-ring

Oil: Red High Temp Synthetic

Hose: High Temp Matchmate Aeroquip (Optional Straight, 90 Degree, 45 Degree)

Rod End: Machined Steel, Zinc Plated

Uniball: 5/8" Com 10, Stainless Steel, Teflon Lined

Top Cap: Machined Aluminum, Black Hard Anodized

Bypass Adjuster: Chromoly Incremental Flow Metering Check Valve

Bypass Tubing (For 60mm Shocks): 5/8" OD

Bypass Tubing (For 70mm Shocks): 3/4" OD

Coilover Jounce Stop: 3 Stage Closed Cellular Foam

Finish: Zinc Plated

Coilover Hardware: Machined Aluminum, Hard Anodized Top Adjuster and Spring Hat, Steel Crossover Nuts, Fiberglass Impregnated Nylon Slider

BILSTEIN Piston Diameter	Outer Body Diameter
46mm	2.0"
60mm	2.65"
70mm	3.0"

¹BILSTEIN measures shock size by piston diameter. Outer body diameter is the industry standard measurement for off-road shocks.

²remote reservoir can be custom ordered

Service and warranty.

Servicing your shocks - use nitrogen only!

M 9200, M 9100, B8 8125, B8 8100, M 7100.

All shocks with a reservoir or schrader valve should be serviced on a regular basis. Failure to service your shock will reduce the life span and damage the shock absorber. Nitrogen can be serviced through a fill valve located on the shock body (schrader shock) or at the end of the reservoir (reservoir shock).



If the suspension begins to feel soft, you may need to increase nitrogen pressure. A BILSTEIN Gas Filling Tool (*part #193000*) is available. Please contact a BILSTEIN dealer for more details. Nitrogen bottles typically can be purchased at a welding supply store.

- Do not attempt to repair or rebuild any shock if you are not qualified to do so.
- M 9200 (Bypass) is delivered without nitrogen pressure. These shocks must be pressurized prior to use.
- M 9200, B8 8125 and M 7100: Proper pressure level ranges from 180 – 250 PSI.

Installation.

M 9200, M 9100, B8 8125, M 7100, M 7100 Classic, B8 5165, B8 5125.

These products are not intended for use on any OEM applications and may not directly fit in standard mounting locations. **The user is responsible for determining the suitability of these products.**



Incorrect installation can lead to the failure of this product. Below are a few tips:

- These shocks cannot be used as a compression limiter. Failure of the shock and/or mounts will result.
- Limit strap is strongly recommended on any high-speed application where suspension oscillations to “full droop” are a common occurrence.
- M 9200, B8 8125, M 7100 and M 7100 Classic are supplied with (4) heim spacers which must be placed on both sides of the spherical bearing (top and bottom). The purpose of these spacers is to allow the spherical bearing to articulate as the shock cycles through its travel. It is very important that the heim spacers, or any part of the mount brackets, etc., do not contact the end loop during operation. Any interference with the free movement of the bearings may result in a bent or broken piston rod.
- It is very important to cycle the suspension to “full bump” and “full droop” before operating the vehicle with this product. Failure can occur if the shock body comes in contact with the chassis, tire and wheel, or suspension of the vehicle.

B8 8100, B8 5160, B8 5100.

These shocks may only be used for specific applications. Due to variations in manufacturers' lift kit systems, it is the responsibility of the installer/end user to confirm that the shocks are dimensionally correct. Most lift kits require lowered bump stops to compensate for longer shocks mounted into the OEM location. BILSTEIN will not be liable for damage caused by a full compression impact of the shock absorber.

Owner rebuildable shocks.

M 9200, M 9100, B8 8125, M 7100.

M 9300, M 9200, M 9100, B8 8125 and M 7100 are fully owner rebuildable and revalvable. Any component can be purchased through a BILSTEIN dealer or direct from BILSTEIN. Owner rebuildable shocks can also be revalved and serviced by BILSTEIN, if requested. For a complete parts listing please refer to US.bilstein.com.

Factory rebuildable shocks.

B8 8112, B8 8100, M 7100 Classic, B8 6112, B8 5165, B8 5160.

Factory rebuildable shocks can be serviced by the BILSTEIN Technical Center in Poway, California. These shocks can be rebuilt to factory specification or revalved to a new specification. Internal adjustments can be made independently to the rebound and compression damping forces. For more information please contact BILSTEIN at **1-800-537-1085**.

Zinc plated finish.

M 9200, B8 8125, B8 8112, B8 8100, B8 6112, B8 5165, B8 5160, B8 5125, B8 5100.

M 9200, B8 8125, B8 8112, B8 5165, B8 5160, B8 5125 and B8 5100 feature a proprietary BILSTEIN zinc plated finish. This finish must be serviced in order to maintain its luster. Particularly in moist climates, a protective coating, such as a wax or lubricating oil should be periodically applied to prevent tarnishing. This finish is not covered under warranty.

Limited 90 day warranty.

M 9200, M 9100, B8 8125, B8 8112, B8 8100, M 7100, M 7100 Classic, B8 5165, B8 5160, B8 5125.

BILSTEIN warrants to the original retail purchaser that, for a period of ninety (90) days from the date of purchase, this product shall be free from defects in material and workmanship. Any implied warranty of merchantability, fitness or fitness for particular purpose, except as may be prohibited by applicable law, is likewise limited in duration to ninety (90) days from the date of original retail purchase. Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

This warranty is non-transferable and does not cover normal wear and tear or any other loss, liability or damage resulting from improper alteration, disassembly, handling, installation, service, repair or use of this product. Should this product fail as a result of a defect in materials or workmanship within the warranty period, contact BILSTEIN's Customer Service Department by telephone, or in writing at thyssenkrupp BILSTEIN of America 14102 Stowe Drive, Poway, California 92064 for repair or replacement at manufacturer's option.

Repair or replacement as provided by this warranty is the customer's sole and exclusive remedy in the event of a product failure. Manufacturer shall not be liable for any incidental, consequential or other damages resulting from the disassembly, handling, installation, service, repair or use of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

DRIVE THE LEGEND.



thyssenkrupp Bilstein of America

BILSTEIN Off-Road Racing Department
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