

BILSTEIN®

OFF-ROAD SHOCKS



LIFTED TRUCKS • SUVs • OFF-ROAD RACING



DIRECT FIT

TECHNOLOGY

5100 SERIES

DIRECT FIT

The Technology of BILSTEIN's Monotube Design

Heat is one of the major detractors to the performance and longevity of any shock absorber. Conventional twintube 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.

Pressure Differentials

Shock oils contain roughly 10% gas molecules. The compression and rebound strokes of the shock piston in the oil column 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 forms 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.



Hard Chrome Piston Rod

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

One Piece Aluminum Rod Guide & Seal

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

Self-Adjusting Digressive Piston

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

BILSTEIN's Industry Leading Monotube Design

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

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.



BILSTEIN PISTON

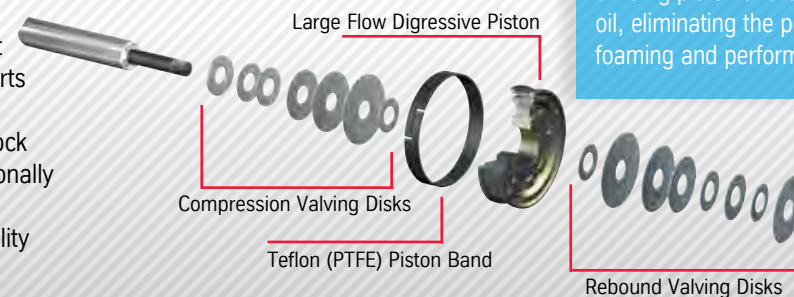
Monotube vs. Twintube Shock Design

The photo on the left dramatically illustrates the size difference between the working piston inside a BILSTEIN monotube shock and one found in a typical twintube shock.

BILSTEIN's piston has 228% larger surface area than the average conventional twintube 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 twintube 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.



5100 SERIES | Monotube Gas Pressure Shock Absorber for Lifted Trucks, Jeeps and SUVs

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

Product Highlights

- > 46mm monotube design for consistent fade-free performance
- > Patented digressive valving instantly reacts to changing surface conditions for maximum comfort, and control on and off-road
- > Vehicle specific tuning optimizes performance for ride and handling
- > OEM certified mounting hardware allows for easy installation
- > Zinc plated for resistance to harsh elements
- > Black boot included
- > Made in the USA
- > Limited Lifetime Warranty

OEM Certified Shock Mounts

Each 5100 Series has extremely durable and long lasting vulcanized neoprene rubber bushings with vehicle specific sleeves or cast crossbars.



5112 Series (kit)*

Levels vehicle, increases ground clearance, and allows for larger diameter tires. Kit includes (2) front 5100 shocks and (2) custom tuned springs to enhance vehicle control.

*5112 Series available for 05-'15 Ford F-250/F-350 4x4

Contact your BILSTEIN distributor for additional applications.



DIRECT FIT

5100 RIDE-HEIGHT

5100 RIDE-HEIGHT

DIRECT FIT



5100 RIDE-HEIGHT ADJUSTABLE

Designed to level out the front end of half-ton trucks and SUVs equipped with OEM coilover suspension.

Product Highlights

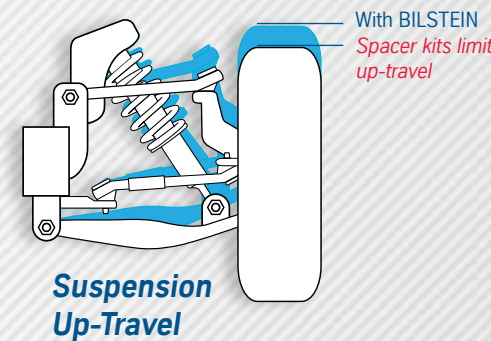
- > 46mm monotube design for consistent, fade-free performance
- > Extremely affordable and practical alternative to coil spring spacers, with the benefit of BILSTEIN's superior monotube design
- > Increases suspension travel
- > Utilizes the vehicle's stock front coil springs
- > Vehicle specific tuning for maximum performance
- > Made in the USA
- > Limited Lifetime Warranty



Adjustable Spring Perch

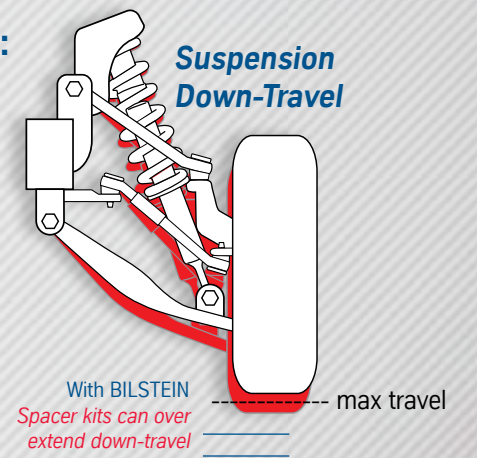
- > Levels and lifts vehicle 0" to 2.75" depending on application
- > Multiple snap-ring grooves allow for different spring seat positions
- > OEM specified snap-ring design

BILSTEIN 5100 Ride-Height Adjustable Shocks account for the shortcomings found in spacer kits:



Full stock suspension up-travel is maintained with the BILSTEIN 5100 Ride-Height Adjustable Shocks installed.

Up-travel is restricted when the shock assembly bottoms out with the strut extension spacer installed.



BILSTEIN 5100 Ride-Height Adjustable Shocks prevent over extension of the suspension.

Strut extension spacers can create over extended down-travel causing possible ball joint, CV joint, or driveline component damage.

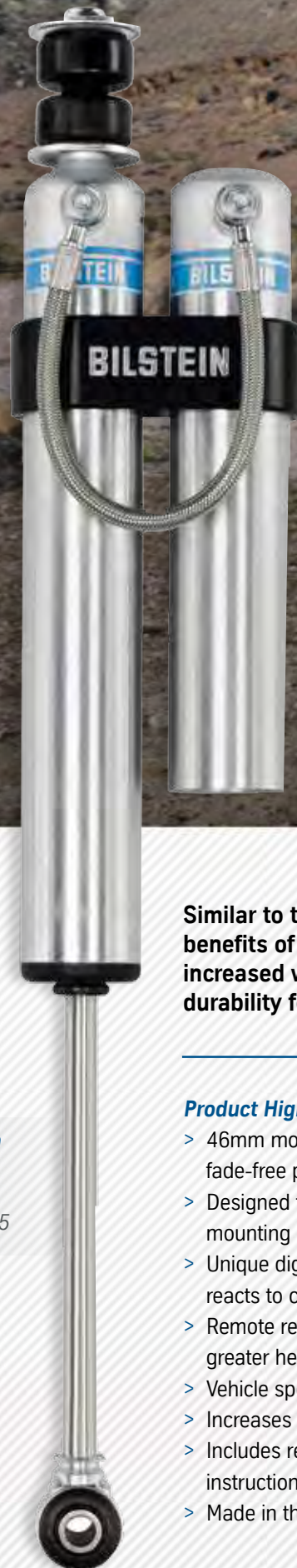
Toyota Tacoma shock shown with stock factory spring assembly installed. (not included with shock)

DIRECT FIT

5160 SERIES

6112 SERIES

DIRECT FIT



5160 SERIES



6112 SERIES (kit)

Swivel Mount

Unique swivel banjo fittings allow for 360° of rotation.

Optional Aluminum Clamp

Optional billet aluminum reservoir mounting clamp available. Part #11-176015

Similar to the 5100 Series, but with the added benefits of a remote reservoir resulting in increased wheel travel and improved long-term durability for off-road use.

Product Highlights

- > 46mm monotube design for consistent, fade-free performance
- > Designed to easily install in the stock mounting locations
- > Unique digressive valving system instantly reacts to changing road surface conditions
- > Remote reservoir increases shock oil capacity for greater heat dissipation
- > Vehicle specific tuning for maximum performance
- > Increases wheel travel on most applications
- > Includes reservoir mount kit and detailed installation instructions
- > Made in the USA

Adjustable Spring Seat

Offers 0-2.5" of adjustable lift depending on the application.

60mm Digressive Piston

The 6112 Series optimizes on and off-road performance with a 60mm digressive piston for increased damping control.

Bottom Mount

Utilizes a high quality OEM lower mount for long-term durability and a perfect fit.

Designed for the serious off-road adventure seeker, the all-new BILSTEIN 6112 Series kit is the ultimate suspension solution.

Product Highlights

- > Large 60mm monotube for increased oil capacity, cooling, and long-term durability
- > 60mm digressive piston for improved ride comfort and control over rough terrain
- > 18mm hard chrome piston rod
- > Custom engineered cold wound linear springs for enhanced vehicle control
- > Monotube design for consistent, fade-free performance
- > Application specific for maximum performance
- > Reuses OEM top mount and rubber isolator
- > Made in the USA
- > Limited lifetime warranty

Kit includes (2) front 60mm shocks, (2) spring seats and (2) springs.

DIRECT FIT

APPLICATIONS

APPLICATIONS

DIRECT FIT

Model	Year	Lifted Height		Front Shock			Rear Shock		
		Front	Rear	Part #	Series	Note	Part #	Series	Note
CHEVROLET TRUCKS & SPORT UTILITY VEHICLES									
4WD Pickups (Lifted Suspension)									
Silverado 1500	14-'15	0-1.8"	0-1"	24-238304	5100 R.H.A		33-238319	5100	
		0-1.8"	0-2"	Coming Soon	6112		Coming Soon	5160	
	07-'13	0-1.75"	0-1"	24-186940	5100 R.H.A	18	24-186957	5100	17
		0-1.75"	0-2"	Coming Soon	6112	18	Coming Soon	5160	
		6"	4"	24-186940	5100 R.H.A	18	24-186636	5100	2
		<i>For kits utilizing front OEM shock w/ lift spacer</i>							
		<i>Includes 2007 classic model w/torsion bars</i>							
	99-'06	0-2.5"	0-1"	24-186643	5100	99,19	24-186742	5100	99
		0-2.5"	0-2"	25-176407	5160	99,19	25-176414	5160	99
		4"	2"	24-185950	5100	99	24-191203	5100	2,99
		4"	0-2"	25-177411	5160	99	25-176414	5160	2,99
		6"	4"	24-185950	5100	99	24-186636	5100	2,99
		6"	4"	25-177411	5160	99	25-177428	5160	2,99
		6"	4"	33-187112	5125	10			
		6"		33-185590	5125	10			
		<i>Fabtech double shock front</i>							
		<i>Superlift double shock front</i>							
K1500	88-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
Silverado 2500HD / 3500HD	11-'15	0-1.5"	0-1"	24-196451	5100	19	24-196468	5100	
		0-1.5"	0-2"	25-196474	5160	19	25-196481	5160	
		4-6"	3-4"	24-218023	5100		24-218030	5100	2
		4-6"	3-5"	25-218190	5160		25-218206	5160	2
		<i>Steering Stabilizer</i>							
					33-196619	5100			
Silverado 1500HD / 2500 / 2500HD / 3500 / 3500HD	99-'10	0-2.5"	0-1"	24-186735	5100	19,94	24-186742	5100	94,95
		0-2.5"	0-2"	25-187618	5160	19,94	25-187625	5160	94,95
		4"	2"	24-187183	5100	94	24-191203	5100	2,94,95
		4"	2"	25-187687	5160	94	25-187625	5160	2,94,95
		6"	4"	24-187183	5100	94	24-186636	5160	2,94,95
		6"	3-5"	25-187687	5160	94	25-187694	5160	2,94,95
		<i>Steering Stabilizer</i>							
					33-174525	5100			
K2500 / K3500	88-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
K10 / K20	73-'87	3-4"	3-4"	24-187077	5100	2	24-187084	5100	2

4WD Sport Utility Vehicles (Lifted Suspension)									
1500 Tahoe/Suburban/Avalanche	07-'14	0-1.75"	0-1"	24-186940	5100 R.H.A.	97	24-187237	5100	97
			0-1"				25-177893	5160	97
	00-'06	0-2.5"	0-1"	24-186643	5100	19,97	24-187237	5100	96,97
		0-2.5"	0-1"	25-176407	5160	19,97	25-177893	5160	96,97
		4"	3"	24-185950	5100	97	24-185783	5100	2,96,97
		4"	3"	25-177411	5160	97	25-187625	5160	2,96,97
		6"	5"	25-177411	5160	97	25-187601	5160	2,96,97
		4-6"	5"	24-185950	5100	97	24-187237	5100	96,97
		4-6"	5"	25-177411	5160	97	25-177893	5160	96,97
		<i>W/ Rear Stock Shock Relocation Bracket</i>							
		<i>W/ Rear Stock Shock Relocation Bracket</i>							
Blazer 2dr (Full Size)	92-'94	4-6"	2-4"	33-061399	5100		24-067379	5100	2
Tahoe 2dr	95-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
Tahoe 4dr	95-'99	4-6"	2-4"	33-061399	5100		24-185615	5100	2
Avalanche 2500	02-'06	0-2.5"	0-1"	24-186735	5100	19,97	24-185783	5100	97
		0-2.5"	0-2"	25-187618	5160	19,97	25-187625	5160	97
		<i>Steering Stabilizer</i>							
					33-174525	5100			
Suburban 2500	00-'13	0-2.5"	0-1"	24-186735	5100	19,97	24-185783	5100	97
		0-2.5"	0-2"	25-187618	5160	19,97	25-187625	5160	97
		<i>Steering Stabilizer</i>							
					33-174525	5100			
Suburban K1500 / K2500	92-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
K5 Blazer / Suburban	73-'91	3-4"	3-4"	24-187077	5100	2	24-187084	5100	2

2WD Pickups (Lifted Suspension)									
Silverado 1500	14-'15	0-1.8"	0-1"	24-238304	5100 R.H.A		33-238319	5100	
		0-1.8"	0-2"	Coming Soon	6112		Coming Soon	5160	
	07-'13	0-1.75"	0-1"	24-186940	5100 R.H.A	18	24-186957	5100	17
		0-1.75"	0-2"	Coming Soon	6112	18	Coming Soon	5160	
		6"	4"	24-186940	5100 R.H.A	18	24-186636	5100	2
		<i>For kits utilizing front OEM shock w/ lift spacer</i>							
		<i>w/ A-Arm & Coil Lift</i>							
	99-'06	3"	0-1"	24-185400	5100	93,99	24-029032	4600	99
		6"	4"	24-185400	5100	93,99	24-191203	5100	2,99
		<i>w/ A-Arm, Coil & Lift Spindle</i>							
		6"	5"	24-236942	5100	93,99	24-191203	5100	2,99
		<i>w/ Cross Member Kit</i>							
		<i>w/ A-Arm & Coil Lift</i>							
C1500	88-'99	3"	0-1"	24-062107	5100	3	24-016988	4600	
		6"	3"	24-062107	5100	3	24-067379	5100	2

Model	Year	Lifted Height		Front Shock			Rear Shock		
		Front	Rear	Part #	Series	Note	Part #	Series	Note
Silverado 2500HD / 3500HD	11-'15	0-1.5"	0-1"	24-196451	5100	19	24-196468	5100	
		0-1.5"	0-2"	25-196474	5160	19	25-196481	5160	
		4-6"	3-4"	24-218023	5100		24-218030	5100	2
		4-6"	3-5"	25-218190	5160		25-218206	5160	2
		<i>Steering Stabilizer</i>							
					33-196619	5100			
Silverado 1500HD / 2500 / 2500HD / 3500 / 3500HD	99-'10	0-2.5"	0-1"	24-186735	5100	19,94	24-186742	5100	94,95
		0-2.5"	0-2"	25-187618	5160	19,94	25-187625	5160	94,95
		4"	2"	24-187183	5100	94	24-191203	5100	2,94,95
		4"	2"	25-187687	5160	94	25-187625	5160	2,94,95
		6"	4"	24-187183	5100	94	24-186636	5160	2,94,95
		6"	3-5"	25-187687	5160	94	25-187694	5160	2,94,95
		<i>Steering Stabilizer</i>							
					33-174525	5100			

2WD Sport Utility Vehicles (Lifted Suspension)									
Avalanche / Suburban 1500 / Tahoe	07-'14	0-1.75"	0-1"	24-186940	5100 R.H.A	97	24-187237	5100	97
							25-177893	5160	97
	00-'06	0-2.5"	0-1"	24-186643	5100	19,97	24-187237	5100	96,97
		0-2.5"	0-1"	25-176407	5160	19,97	25-177893	5160	96,97
		4"	3"	24-185950	5100	97	24-185783	5100	2,96,97
		4"	3"	25-177411	5160	97	25-187625	5160	2,96,97
		6"	5"	24-185950	5100	97			
		6"	5"	25-177411	5160	97	25-187601	5160	2,96,97
		4-6"	5"	24-185950	5100	97	24-187237	5100	96,97
		4-6"	5"	25-177411	5160	97	25-177893	5160	96,97
		<i>W/ Rear Stock Shock Relocation Bracket</i>							
Avalanche 2500	02-'06	0-2.5"	0-1"	24-186735	5100	19,97	24-185783	5100	
		0-2.5"	0-2"	25-187618	5160	19,97	25-187625	5160	97
		<i>Steering Stabilizer</i>							
					33-174525	5100			
Suburban 2500	00-'13	0-2.5"	0-1"	24-186735	5100	19,97	24-185783	5100	97
		0-2.5"	0-2"	25-187618	5160	19,97	25-187625	5160	97
		<i>Steering Stabilizer</i>							
					33-174525	5100			
Tahoe 4dr & 2dr / C1500 Suburban	92-'99	3"	0-1"	24-062107	5100	3	24-016988	4600	
		6"	4-5"	24-062107	5100	3	24-067379	5100	2
		6"	4-5"	24-236942	5100		24-067379	5100	2
		<i>W/ A-Arm & Lift Spindle</i>							
		<i>Crossmember Kit</i>							
Blazer 2dr (Full Size)	92-'94	3"	0-1"	24-062107	5100	3	24-016988	4600	
		6"	4-5"	24-062107	5100	3	24-067379	5100	2
		6"	4-5"	24-236942	5100		24-067379	5100	2
		<i>W/ A-Arm & Lift Spindle</i>							
		<i>Crossmember Kit</i>							

DODGE TRUCKS & SPORT UTILITY VEHICLES									
4WD Pickups (Lifted Suspension)									
Ram 1500	09-'10	0-2.75"	0-1"	24-187367	5100 R.H.A		24-187374	5100	
	06-'08	0-2"	0-1"	24-186988	5100 R.H.A		24-185783	5100	
	94-'01	3"	0-1"	24-185776	5100	2	24-185783	5100	2
		5-6"	4"	24-066464	5100	2	24-191203	5100	2
		<i>Excludes Megacab</i>							
Ram 1500 Mega Cab	06-'08	0-2.5"	0-1"	24-185776	5100		24-191203	5100	
		0-3"	0-1.5"	25-187595	5160		25-187601	5160	
		4-5"	2"	24-066464	5100	2	24-186636	5100	2
		4-6"	3.4"	25-197754	5160	2	25-197761	5160	2
		6-8"	3-5"	24-187213	5100	2	33-187228	5100	2
		<i>Steering Stabilizer</i>							
					24-164870	5100			
		<i>Steering Stabilizer</i>							
					33-170794	5100			
Ram 2500 Power Wagon	10-'13	0-1"	0-1"	25-187595	5160				

DIRECT FIT

APPLICATIONS

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Model	Year	Lifted Height		Front Shock			Rear Shock		
		Front	Rear	Part #	Series	Note	Part #	Series	Note
FORD TRUCKS & SPORT UTILITY VEHICLES									
4WD Pickups (Lifted Suspension)									
F-150	09-'13	0-2"	0-1"	24-239394	5100 R.H.A		33-187501	5100	
	04-'08	0-2"	0-1"	24-239363	5100 R.H.A		33-186009	5100	
	97-'03	4"	0-2"	24-185523	5100		24-185417	5100	
	80-'96	4"	2"	24-185523	5100	2	24-185530	5100	2
		Auxiliary		4"	24-186513	5100	2		
				6"	24-065283	5100	2	24-065276	5100
F-250 / F-350	05-'15	0-2"	0-1"	24-186018	5100		24-186025	5100	
		2"	0-1"	F4-SE5-C765-H0	5112 Series		24-186025	5100	
		0-2.5"	0-2"	25-187779	5160		25-187786	5160	
		4"	2"	24-185776	5100		24-062466	5100	2
		4-6"	4-5"	25-177435	5160	2	25-177442	5160	2
		6"	4"	24-186681	5100	2	24-062466	5100	2
		Steering Stabilizer		05-'07	33-170862	5100			
		Steering Stabilizer		08-'13	24-196284	5100			
	99-'04	0-2.5"	0-1"	33-187297	5100	2	24-186025	5100	2
		0-3"	0-2"	25-188387	5160		25-188394	5160	
		4-6"	2-4"	33-185545	5100	2	24-062466	5100	2
		4-6"	3-5"	25-188363	5160	2	25-188370	5160	2
		Double Shock Front		4-6"	33-104645	5125			
		Double Shock Front		4-6"	25-187700	5165			
		Steering Stabilizer		24-158848	5100				
Ranger	83-'97	4-5"	0-1"	24-185493	5100	2	24-185509	5100	2
		6"	2-3"	24-185684	5100	2	24-065276	5100	2

Model	Year	Lifted Height		Front Shock			Rear Shock		
		Front	Rear	Part #	Series	Note	Part #	Series	Note
Excursion	00-'05			24-158930	5100				
Bronco II	83-'90	4"	4"	24-185493	5100	2	24-185509	5100	2
Explorer	95-'01	3"		24-021319	4600				
	90-'94	4"		24-185493	5100	2			
Explorer Sport Trac	95-'01	3"		24-021319	4600				

GMC TRUCKS & SPORT UTILITY VEHICLES

4WD Pickups (Lifted Suspension)

Sierra 1500	14-'15	0-1.8"	0-1"	24-238304	5100 R.H.A		33-238319	5100	
		0-1.8"	0-2"	Coming Soon	6112		Coming Soon	5160	
	07-'13	0-1.75"	0-1"	24-186940	5100 R.H.A	18	24-186957	5100	17
		0-1.75"	0-2"	Coming Soon	6112	18	Coming Soon	5160	
		6"	4"	24-186940	5100 R.H.A	18	24-186636	5100	2
	99-'06	0-2.5"	0-1"	24-186643	5100	19,99	24-186742	5100	99
		0-2.5"	0-2"	25-176407	5160	19,99	25-176414	5160	99
		4"	2"	24-185950	5100	99	24-191203	5100	2,99
		4"	0-2"	25-177411	5160	99	25-176414	5160	2,99
		6"	3"	24-185950	5100	99	24-186636	5100	2,99
		6"	4"	25-177411	5160	99	25-177428	5160	2,99
		6"		33-187112	5125	10			
		6"		33-185590	5125	10			
K1500 Sierra	88-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
Sierra 2500HD / 3500HD	11-'15	0-1.5"	0-1"	24-196451	5100	19	24-196468	5100	
		0-1.5"	0-2"	25-196474	5160	19	25-196481	5160	
		4-6"	3-4"	24-218023	5100		24-218030	5100	
		4-6"	3-4"	25-218190	5160		25-218206	5160	
Sierra 1500HD / 2500 / 2500HD / 3500 / 3500HD	99-'10	0-2.5"	0-1"	24-186735	5100	19,94	24-186742	5100	94,95
		0-2.5"	0-2"	25-187618	5160	19,94	25-187625	5160	94,95
		4"	2"	24-187183	5100	94	24-191203	5100	2,94,95
		4"	0-2"	25-187687	5160	94	25-187625	5160	2,94,95
		6"	4"	24-187183	5100	94	24-186636	5100	2,94,95
		6"	4"	25-187687	5160	94	25-187694	5160	2,94,95
		Steering Stabilizer		99-'10	33-174525	5100			
K2500 Sierra / K3500 Sierra	88-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
K15 / K1500 / K25 / K2500	73-'87	3-4"	3-4"	24-187077	5100	2	24-187084	5100	2

4WD Sport Utility Vehicles (Lifted Suspension)

Yukon / Yukon XL 1500	07-'14	0-1.75"	0-1"	24-186940	5100 R.H.A	97	24-187237	5100	97
			0-1"				25-177893	5160	97
	00-'06	0-2.5"	0-1"	24-186643	5100	19,97	24-187237	5100	96,97
		0-2.5"	0-1"	25-176407	5160	19,97	25-177893	5160	96,97
		4"	3"	24-185950	5100	97	24-185783	5100	2,96,97
		4"	3"	25-177411	5160	97	25-187625	5160	2,96,97
		6"		24-185950	5100	97			
		6"	5"	25-177411	5160	97	25-187601	5160	2,96,97
		4-6"	5"	24-185950	5100	97	24-187237	5100	96,97
		4"-6"	5"	25-177411	5160	97	25-177893	5160	96,97
Yukon 2dr	92-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
Yukon 4dr	95-'99	4-6"	2-4"	33-061399	5100		24-185615	5100	2
Yukon XL 2500	00-'13	0-2.5"	0-1"	24-186735	5100	19,97	24-185783	5100	97
		0-2.5"	0-1"	25-187618	5160	19,97	25-187625	5160	97
				33-174525	5100				
K1500 Suburban / K2500 Suburban	92-'99	4-6"	2-4"	33-061399	5100		24-067379	5100	2
K15 Jimmy / K1500 Suburban	73-'91	3-4"	3-4"	24-187077	5100	2	24-187084	5100	2

2WD Pickups (Lifted Suspension)

Sierra 1500	14-'15	0-1.8"	0-1"	24-238304	5100 R.H.A		33-238319	5100	
		0-1.8"	0-2"	Coming Soon	6112		Coming Soon	5160	
	07-'13	0-1.75"	0-1"	24-186940	5100 R.H.A	18	24-186957	5100	17
		0-1.75"	0-2"	Coming Soon	6112	18	Coming Soon	5160	
		6"	4"	24-186940	5100 R.H.A	18	24-186636	5100	2
	99-'06	3"	0-1"	24-185400	5100	93,99	24-029032	4600	99
		6"	4"	24-185400	5100	93,99	24-191203	5100	2,99

4WD Sport Utility Vehicles (Lifted Suspension)

Excursion	00-'05	0-2.5"	0-1"	33-187297	5100		24-185479	4600	
		4-6"	3-5"	33-185545	5100	2	33-236964	5100	2
		4-6"		33-104645	5125				
		Double Shock Front		24-158848	5100				
		Steering Stabilizer		80-'96	4"	2-4"	24-185523	5100	2
		Auxiliary		4"	24-186513	5100	2		
				6"	24-065283	5100	2	24-185530	5100
				66-'77	0-1.5"	0-1.5"	24-185493	5100	
				2-4"	24-065283	5100	2	33-186542	5100
		Double Shock Front		24-065283	5100	2	33-186542	5100	2
Bronco	80-'96	4"	2-4"	24-185523	5100	2	24-185530	5100	2
		Auxiliary		4"	24-186513	5100	2		
				6"	24-065283	5100	2	24-185530	5100
				66-'77	0-1.5"	0-1.5"	24-185493	5100	
				2-4"	24-065283	5100	2	33-186542	5100
		Double Shock Front		24-065283	5100	2	33-186542	5100	2
Bronco II	83-'90	4"	4"	24-185493	5100	2	24-185509	5100	2
Explorer	90-'94	4"		24-185493	5100	2			

2WD Pickups (Lifted Suspension)

F-150	09-'13	0-2.5"	0-1"	24-187466	5100 R.H.A		33-187471	5100	
	04-'08	0-2"	0-1"	24-186698	5100 R.H.A		24-186704	5100	
	97-'03	3"	0-1"	24-185400	5100		24-024792	4600	
		W/ A-Arm		6"	24-185400	5100	24-185417	5100	
		W/ A-Arm & Lift Spindle		6"	24-236942	5100	24-185417	5100	
		W/ Crossmember Kit		85-'96	4"	2-4"	24-185523	5100	2
				6"	24-065283	5100	2	24-185530	5100
F-250 / F-350 W/ Stock Radius Arms Only	99-'14	4"	0-1"	24-185523	5100	2	24-065276	5100	2
				6"	24-065283	5100	2	24-062466	5100
		Steering Stabilizer		99-'14	24-158930	5100			
F-250 / F-350	80-'98	4"	2"	24-185523	5100	2	24-185530	5100	2
		6"	3-4"	24-065283	5100	2	24-065276	5100	2
Ranger	98-'11	3"	0-1"	24-196260	4600		24-196277	4600	2
		W/ Lift Spindle		3"	24-187107	5100	24-196277	4600	2
		W/ A-Arm		6"	24-187107	5100	24-185509	5100	2
		W/ A-Arm & Lift Spindle		83-'97	4-5"	0-1"	24-185493	5100	2
				4-5"	24-185493	5100	2	24-185509	5100

DIRECT FIT

APPLICATIONS

APPLICATIONS

DIRECT FIT

Model	Year	Lifted Height		Front Shock			Rear Shock			
		Front	Rear	Part #	Series	Note	Part #	Series	Note	
JEEP SPORT UTILITY VEHICLES <i>continued</i>										
<i>2WD Sport Utility Vehicles (Lifted Suspension) continued</i>										
Wagoneer	84-'90	3.5-4"	3.5-4"	25-187670	5160	2	25-187816	5160	2	
		5-6"	5-6"	24-185943	5100	2	33-151663	5100	2	
Grand Cherokee	(WK2)	11-'15	.5-1.6"	0-1"	Coming Soon		5100 R.H.A	Coming Soon	5100	
	(WK)	05-'10	.75-2"	0-1.5"	24-225793		5100 R.H.A	33-225807	5100	
	(WJ)	99-'04	1.5-2"	1.5-2"	24-185622	5100	2	33-236957	5100	2
			3.5-4"	3.5-4"	24-188197	5100	2	33-151632	5100	2
	(ZJ)	93-'98	1.5-2"	1.5-2"	24-185622	5100	2	33-151670	5100	2
			3"	3"	24-186216	5100	2	24-186223	5100	2
3.5-4"			3.5-4"	24-188197	5100	2	24-186223	5100	2	
		6"	6"	24-185943	5100	2	33-151618	5100	2	

MAZDA TRUCKS									
<i>2WD Pickups (Lifted Suspension)</i>									
B2300 / B2500 / B3000 / B4000									
		<i>W/ Lift Spindle</i>	98-'09	3"	0-1"	24-196260	4600	24-196277	4600
(Coil Spring Front Only)		<i>W/ A-Arm</i>		3"	0-1"	24-187107	5100	24-196277	4600
		<i>W/ A-Arm & Lift Spindle</i>		6"	4"	24-187107	5100	24-185509	5100

NISSAN TRUCKS & SPORT UTILITY VEHICLES									
<i>4WD Pickups (Lifted Suspension)</i>									
Titan		04-'14	0-2"	0-1"	24-197649		5100 R.H.A	24-186766	5100
Frontier		05-'14	0-2"	0-1"	24-187053		5100 R.H.A	24-187152	5100
		98-'04	0-3"	0-2"	24-187824	4600	24-021289	4600	

<i>4WD Sport Utility Vehicles (Lifted Suspension)</i>									
Armada		05-'14	0-2"		24-197649		5100 R.H.A		
Pathfinder Armada		'04	0-2"		24-197649		5100 R.H.A		
Xterra		05-'14	0-2"	0-1"	24-187053		5100 R.H.A	24-187169	5100
		00-'04	0-3"	0-2"	24-187824	4600	24-184908	4600	11

<i>2WD Pickups (Lifted Suspension)</i>									
Titan		04-'14	0-2"	0-1"	24-197649		5100 R.H.A	24-186773	5100
Frontier		05-'14	0-2"	0-1"	24-187053		5100 R.H.A	24-187152	5100

<i>2WD Sport Utility Vehicles (Lifted Suspension)</i>									
Armada		05-'14	0-2"		24-197649		5100 R.H.A		
Pathfinder Armada		'04	0-2"		24-197649		5100 R.H.A		
Xterra		05-'14	0-2"	0-1"	24-187053		5100 R.H.A	24-187060	5100
		00-'04	0-3"	0-2"	24-187824	4600	24-184908	4600	11

RAM TRUCKS											
<i>4WD Pickups (Lifted Suspension)</i>											
1500		11-'15	0-2.75"	0-1"	24-187367		5100 R.H.A	24-187374	5100		
2500 Power Wagon		11-'13	0-1"	0-1"	25-187595		5160	25-187601	5160		
2500		14-'15	2-2.5"	0-1"	24-239448		5100	24-239455	5100		
			2-2.5"	0-1"	25-240429	5160	25-240436	5160			
		11-'13	0-2.5"	0-1"	24-185776	5100	24-191203	5100			
		0-3"	0-1.5"	25-187595	5160	25-187601	5160				
		4-5"	2"	24-066464	5100	2	24-186636	5100	2		
		4-6"	3.4"	25-197754	5160	2	25-197761	5160	2		
		6-8"	3-5"	24-187213	5100	2	33-187228	5100	2		
						33-170794	5100				
		3500		13-'15	2-2.5"	0-1"	24-238540		5100	33-238555	5100
					2-2.5"	0-1"	25-240405	5160	25-240412	5160	
11-'12	0-2.5"			0-1"	24-185776	5100	24-191203	5100			
0-3"	0-1.5"			25-187595	5160	25-187601	5160				
4-5"	2"			24-066464	5100	2	24-186636	5100	2		
4-6"	3.4"			25-197754	5160	2	25-197761	5160	2		
		6-8"	3-5"	24-187213	5100	2	33-187228	5100	2		
				33-170794	5100						

Model	Year	Lifted Height		Front Shock			Rear Shock		
		Front	Rear	Part #	Series	Note	Part #	Series	Note
SUZUKI TRUCKS									
<i>4WD Pickups (Lifted Suspension)</i>									
Equator		09-'12	0-2"	0-1"	24-187053		5100 R.H.A	24-187152	5100

<i>2WD Pickups (Lifted Suspension)</i>									
Equator		09-'12	0-2"	0-1"	24-187053		5100 R.H.A	24-187152	5100

TOYOTA TRUCKS & SPORT UTILITY VEHICLES									
<i>4WD Pickups (Lifted Suspension)</i>									
Tacoma		05-'15	0-2.5"	0-1"	24-239370		5100 R.H.A	24-186728	5100
		05-'15	.06-2.5"	0-1"	46-241627	6112	25-177343	5160	
Pick-up		86-'95	3-4"	3-4"	24-185745		5100	24-185752	5100
Tundra		07-'15	0.875-2.5"	0-1"	24-232173		5100 R.H.A	24-186971	5100
		07-15	.75-2.5"	0-1.5"	46-206084	6112	25-237429	5160	
		00-'06	0-2.5"	0-1"	24-188265	5100 R.H.A	24-100144	5100	

<i>4WD Sport Utility Vehicles (Lifted Suspension)</i>									
4-Runner		10-'15	0-2.5"	0-2"	24-196499		5100 R.H.A	33-187174	5100
			0-2.5"	0-2"	46-227294	6112	25-227611	5160	
		03-'09	0-2.5"	0-2"	24-239370	5100 R.H.A	33-187174	5100	
			0-2.5"	0-2"	46-227287	6112	25-227611	5160	
FJ Cruiser		90-'95	3-4"		24-185745		5100		
		86-'89	3-4"	3-4"	24-185745		5100	24-185752	5100
		10-'14	0-2.5"	0-2"	24-196499	5100 R.H.A	33-187174	5100	
			0-2.5"	0-2"	46-227294	6112	25-227611	5160	
Landcruiser <i>FJ40</i>		07-'09	0-2.5"	0-2"	24-239370		5100 R.H.A	33-187174	5100
			0-2.5"	0-2"	46-227287	6112	25-227611	5160	
		60-'82	0-2"	0-2"	33-062518	5125	33-185606	5125	
			4"	4"	33-185606	5125	2	33-185552	5125
Sequoia		08-'14	0-2.5"	0-1"	24-239387		5100 R.H.A	33-187280	5100
		00-'07	0-2.5"	0-1"	24-188265	5100 R.H.A	24-185813	4600	

<i>2WD Pickups (Lifted Suspension)</i>									
Tacoma PreRunner		05-'15	0-2.5"	0-1"	24-239370		5100 R.H.A.	24-186728	5100
			1-2.5"	0-1.5"	46-241627	6112	25-177343	5160	
Tundra		07-'15	0.875-2.5"	0-1"	24-232173		5100 R.H.A	24-186971	5100
			.75-2.5"	0-1.5"	46-206084	6112	25-237429	5160	
		00-'06	0-2.5"	0-1"	24-188265	5100 R.H.A	24-100144	5100	

<i>2WD Sport Utility Vehicles (Lifted Suspension)</i>									
4-Runner		10-'15	0-2.5"	0-2"	24-196499		5100 R.H.A	33-187174	5100
			0-2.6"	0-2"	46-227294	6112	25-227611	5160	
		03-'09	0-2.5"	0-2"	24-239370	5100 R.H.A	33-187174	5100	
			0-2.6"	0-2"	46-227287	6112	25-227611	5160	
FJ Cruiser		90-'95	3-4"		24-185745		5100		
		86-'89	3-4"	3-4"	24-185745		5100	24-185752	5100
		10-'14	0-2.5"	0-2"	24-196499	5100 R.H.A	33-187174	5100	
			0-2.6"	0-2"	46-227294	6112	25-227611	5160	
Sequoia		07-'09	0-2.5"	0-2"	24-239370		5100 R.H.A	33-187174	5100
			0-2.6"	0-2"	46-227287	6112	25-227611	5160	
		08-'14	0-2.5"	0-1"	24-239387	5100 R.H.A	33-187280	5100	
		01-'07	0-2.5"	0-1"	24-188265	5100 R.H.A	24-185813	4600	

- 2** Compression bump stop on chassis may need to be modified to prevent damage to the shock absorber.
- 3** Shocks are banded compressed to aid installation.
- 10** Do not use stock shock in conjunction with dual shock setup.
- 11** Will not work with stock swaybar. Shock body is too large and will interfere.
- 13** Must use wheel spacers or offset aftermarket wheels.
- 16** Zinc plated 4600 Series
- 17** Zinc plated blue boot 5100 series
- 18** Excludes 2007 1500 Classic Models
- 19** Torsion Key Lift
- 93** Excludes 2WD GM 1500 Pickup with front torsion bars

- 94** Excludes Electronic Suspension
- 95** Excludes vehicles equipped with rear Quadrateer
- 96** If equipped with ZW7 Premium Smooth Ride Nivomat Suspension, you must replace the rear coil spring when replacing the shock absorber. For the Tahoe/Yukon use spring part #199021. For the 1500 Suburban/1500 Yukon XL use spring part #199020. These replacement springs will maintain stock ride height.
- 97** Excludes Z55 Autoride Suspension Package
- 98** With Independent Front Suspension
- 99** Excludes ZX3 Electronic Suspension

DIRECT FIT

APPLICATIONS

Part #	Extended (in)	Collapsed (in)	Part #	Extended (in)	Collapsed (in)	Part #	Extended (in)	Collapsed (in)
5100/5160 SERIES COLLAPSED AND EXTENDED LENGTHS								
24-062107	15.43	10.04	24-186995	27.56	16.41	25-187687	22.48	13.48
24-062466	32.01	20.28	24-187053	15.26	10.55	25-187694	31.46	18.25
24-064576	28.44	16.97	24-187060	20.06	12.81	25-187779	22.34	13.58
24-065276	28.01	17.01	24-187077	21.62	13.66	25-187786	31.24	18.03
24-065283	21.52	13.27	24-187084	26.15	16.14	25-187793	24.92	14.87
24-066464	27.32	16.34	24-187107	15.43	10.15	25-187809	28.39	16.44
24-067379	28.29	17.28	24-187152	21.65	13.84	25-187816	24.92	14.87
24-100144	22.40	13.84	24-187169	20.87	13.54	25-188363	26.99	15.96
24-146708	24.63	14.98	24-187183	21.46	13.52	25-188370	34.39	20.28
24-146715	25.00	15.39	24-187190	26.50	16.51	25-188387	23.72	14.33
24-158428	20.01	13.19	24-187206	21.46	13.52	25-188394	31.24	18.03
24-158848	23.03	14.96	24-187213	30.31	19.57	25-193114	24.70	14.53
24-158930	21.06	13.39	24-187237	24.33	15.55	25-193121	25.00	14.95
24-164870	23.54	15.12	24-187367	21.40	15.12	25-193138	21.87	13.11
24-185257	24.00	14.88	24-187374	26.73	16.75	25-193145	22.00	13.44
24-185264	23.07	14.63	24-187466	21.91	16.22	25-194012	26.39	15.37
24-185400	17.58	11.30	24-188180	24.63	14.98	25-196474	18.64	13.90
24-185417	27.32	16.38	24-188197	24.61	14.98	25-196481	28.09	16.54
24-185493	18.98	12.17	24-188265	18.68	13.23	25-197754	28.33	16.38
24-185509	26.16	16.14	24-191203	27.36	16.95	25-197761	31.81	18.70
24-185523	18.98	12.17	24-196284	27.44	19.13	25-212662	26.93	15.91
24-185530	26.16	16.14	24-196451	18.64	14.06	25-218190	24.23	15.57
24-185615	26.20	16.18	24-196468	26.79	16.42	25-218206	31.26	18.17
24-185622	22.09	13.58	24-196499	22.48	17.58	25-227611	23.50	14.84
24-185639	21.85	13.68	24-197649	15.61	11.37	25-229738	27.46	15.91
24-185653	28.44	16.97	24-218023	24.23	15.98	25-229745	27.42	16.12
24-185660	23.68	14.63	24-218030	29.92	18.17	25-237429	25.69	15.22
24-185684	20.49	12.87	24-225434	32.09	26.28	33-061399	22.78	14.37
24-185745	17.95	11.67	24-225441	16.02	22.54	33-066868	23.84	14.88
24-185752	25.63	16.00	24-225793	19.20	13.35	33-104645	25.89	15.91
24-185776	24.37	14.88	24-232173	24.21	17.77	33-151618	25.93	15.91
24-185783	26.14	16.16	24-236942	21.50	13.27	33-151632	25.93	15.91
24-185929	24.63	14.98	24-238304	18.86	15.00	33-151663	25.93	15.91
24-185943	28.44	16.97	24-238540	23.84	15.04	33-151670	22.58	14.13
24-185950	21.38	14.15	24-239363	21.89	16.34	33-170794	23.64	14.72
24-186018	21.42	13.59	24-239370	22.56	17.03	33-170862	27.56	18.11
24-186025	29.70	18.04	24-239387	24.32	17.76	33-174525	20.08	12.83
24-186216	23.70	14.88	24-239394	21.83	16.93	33-185514	25.00	15.41
24-186223	24.59	15.48	24-239448	23.84	15.04	33-185545	26.02	15.96
24-186513	21.52	13.27	24-239455	24.96	16.73	33-185934	25.00	15.41
24-186636	29.92	18.17	25-176407	16.30	12.83	33-186009	27.11	16.69
24-186643	16.30	12.54	25-176414	27.17	16.14	33-186887	27.36	16.96
24-186681	26.61	16.33	25-177343	23.23	13.84	33-187174	23.50	14.91
24-186698	20.83	15.37	25-177411	21.38	13.96	33-187228	31.93	20.37
24-186704	24.94	15.31	25-177428	31.38	18.27	33-187280	19.29	13.71
24-186728	22.94	14.02	25-177435	26.61	15.59	33-187297	23.23	14.44
24-186735	15.76	11.30	25-177442	34.39	20.28	33-187471	28.03	17.07
24-186742	26.15	16.14	25-177893	24.43	14.82	33-187501	28.90	17.68
24-186766	25.00	15.79	25-187595	25.96	15.20	33-196619	22.44	14.55
24-186773	23.76	14.96	25-187601	28.09	16.54	33-225807	24.76	15.39
24-186810	21.18	13.06	25-187618	16.24	10.79	33-236957	24.35	15.12
24-186827	20.08	12.81	25-187625	27.17	16.14	33-236964	32.01	20.28
24-186872	27.56	16.41	25-187632	27.46	15.91	33-238319	16.18	25.79
24-186940	18.48	12.95	25-187649	27.42	16.12	33-238555	29.88	18.33
24-186957	25.39	16.53	25-187656	24.70	14.53			
24-186971	24.80	15.33	25-187663	25.00	14.95			
24-186988	21.26	15.18	25-187670	24.49	14.44			

OFF-ROAD

CUSTOM FIT

- 5125 Series <
- 5165 Series <
- 7100 Classic Series <
- 7100 Series <
- 8125 Series <



CUSTOM FIT

5125 SERIES

5165 SERIES

7100 CLASSIC SERIES

CUSTOM FIT



5125 SERIES

Same performance features as the 5100 Series. Available in a selection of lengths and valvings for use on modified or specialty vehicle applications.

Product Highlights

- > 46mm monotube design for consistent, fade-free performance
- > Self-adjusting deflective disc valving
- > 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 available
- > Factory rebuildable
- > Made in the USA



5165 SERIES

Same performance features as the 5160 Series. Available in a selection of lengths and valvings for use on modified or specialty vehicle applications.

Product Highlights

- > 46mm monotube design for consistent, fade-free performance
- > Remote reservoir allows for greater heat dissipation
- > Available in stem-to-eye and eye-to-eye mounting configurations
- > Zinc coating for resistance to off-road elements
- > Custom valving available
- > Factory rebuildable
- > Billet aluminum reservoir clamp available (as shown) Part #11-176015
- > Made in the USA



7100 CLASSIC SERIES

Since their inception in the early 70's, the 7100 Classic Series have equipped more winning off-road cars and trucks than any other shock. Today, the 7100 Classic Series is perfect for meeting the demands of these vintage race vehicles.

Product Highlights

- > 46mm monotube design for consistent, fade-free performance
- > Available for standard and coilover applications in a wide variety of lengths
- > Self-adjusting deflective disc valving
- > High-flow piston reduces harshness
- > Custom valving available
- > Factory rebuildable
- > Spherical bearing end loops accept 1/2" and 12mm mounting bolts
- > Made in Germany



Steve Rountree - Mexican NORRA 1000

CUSTOM FIT

7100 SERIES

8125 SERIES

CUSTOM FIT



7100 SERIES

The versatile 7100 Series shocks are completely owner rebuildable, and available in various lengths and valvings. These shocks come in remote reservoir or non-reservoir designs.

Product Highlights

- > 46mm monotube design for consistent, fade-free performance
- > Self-adjusting deflective disc valving
- > High-flow piston reduces harshness
- > Nickel plated with clear coat
- > Owner rebuildable
- > 1/2" spherical heim mounts
- > Made in the USA

7100 Series is also available in a non-reservoir version



8125 SERIES

Designed for the serious off-road enthusiast. Available in multiple lengths for a wide range of custom applications, the 8125 Series features the highest quality machined components for long lasting durability.

Product Highlights

- > Available in 46mm* and 60mm* monotube design 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
- > -8 high temperature hose
- > Owner rebuildable
- > Industry standard 5/8" spherical heim bearings
- > All components are billet machined. No cast parts
- > Made in the USA



8125 Series uses industry standard coilover springs

- > 46mm* shock uses a 2.5" ID Coilover Spring
- > 60mm* shock uses a 3.0" ID Coilover Spring

*BILSTEIN 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"

CUSTOM FIT

APPLICATIONS

APPLICATIONS

CUSTOM FIT

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter
				Upper	Lower				

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter
				Upper	Lower				

5125 SERIES

5165 SERIES *continued*

EYE TO EYE

33-187112	5.33"	16.45"	11.12"	EB1*	EB1*	1/2"	No	223/90	14mm
33-062518	6.63"	18.50"	12.03"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-233970	7.30"	20.40"	13.00"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-230313	8.00"	21.70"	13.70"	EB1*	EB1*	1/2"	Yes	170/60	14mm
33-185590	8.13"	21.54"	13.58"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-230443	8.40"	22.50"	14.10"	EB1*	EB1*	1/2"	Yes	170/60	14mm
33-185606	8.60"	22.50"	14.06"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-186542	9.24"	24.35"	15.11"	EB1*	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230320	9.24"	24.35"	15.11"	EB1*	EB1*	1/2"	Yes	360/80	14mm
33-214672	9.59"	25.00"	15.41"	EB1*	EB1*	1/2"	Yes	201/87	14mm
33-104645	10.17"	25.93"	15.91"	EB1*	EB1*	1/2"	Yes	170/60	14mm
33-185552	10.17"	25.93"	15.91"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-230344	10.00"	25.90"	15.90"	EB1*	EB1*	1/2"	Yes	360/80	14mm
33-186559	11.00"	28.01"	17.00"	EB1*	EB1*	1/2" 12mm	Yes	170/60	14mm
33-104652	11.00"	28.01"	17.00"	EB1*	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230382	11.94"	29.70"	17.90"	EB1*	EB1*	1/2"	Yes	170/60	14mm
33-185569	11.94"	29.70"	17.91"	EB1*	EB1*	1/2"	Yes	255/70	14mm
33-185576	14.30"	34.90"	20.75"	EB1*	EB1*	1/2"	No	255/70	14mm

STEM TO EYE

25-176223	8.80"	22.40"	13.60"	EB1*	EB1*	1/2"	No	170/60	14mm
25-176230	8.80"	22.40"	13.60"	EB1*	EB1*	1/2"	No	255/70	14mm
25-176124	9.40"	23.60"	14.20"	EB1*	EB1*	1/2"	No	170/60	14mm
25-176117	9.40"	23.60"	14.20"	EB1*	EB1*	1/2"	No	255/70	14mm
25-176100	9.40"	23.60"	14.20"	EB1*	EB1*	1/2"	No	360/80	14mm
25-177510	9.80"	24.40"	14.60"	EB1*	EB1*	1/2"	No	255/70	14mm
25-177503	9.80"	24.40"	14.60"	EB1*	EB1*	1/2"	No	360/80	14mm
25-187700	11.00"	27.40"	16.40"	EB1*	EB1*	1/2"	No	170/60	14mm
25-187717	11.00"	27.40"	16.40"	EB1*	EB1*	1/2"	No	255/70	14mm
25-187724	11.00"	27.40"	16.40"	EB1*	EB1*	1/2"	No	360/80	14mm
25-175783	11.60"	28.50"	16.90"	EB1*	EB1*	1/2"	No	255/70	14mm
25-187731	13.10"	31.00"	17.90"	EB1*	EB1*	1/2"	No	170/60	14mm
25-187748	13.10"	31.00"	17.90"	EB1*	EB1*	1/2"	No	255/70	14mm
25-187755	14.20"	34.90"	20.70"	EB1*	EB1*	1/2"	No	170/60	14mm
25-187762	14.20"	34.90"	20.70"	EB1*	EB1*	1/2"	No	255/70	14mm

STEM TO EYE

Part #	Travel	Description	Valving	Extended	Collapsed	Finish
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7100 CLASSIC SERIES

8" Travel

33-230306	4.50"	13.90"	9.40"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
33-230405	5.70"	16.40"	10.70"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
33-186504	6.65"	18.42"	11.77"	Stem	EB1*	No	Yes	366/240	14mm
24-185684	7.62"	20.45"	12.83"	Stem	EB1*	1/2" 12mm	Yes	224/100	14mm
24-065283	8.23"	21.50"	13.27"	Stem	EB1*	1/2" 12mm	Yes	398/94	14mm
33-230450	8.60"	22.90"	14.30"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
33-230337	9.40"	24.40"	15.00"	Stem	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230412	9.20"	24.40"	15.20"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
24-214667	9.84"	25.98"	16.14"	Stem	EB1*	1/2"	Yes	178/94	14mm
33-230351	10.20"	26.40"	16.10"	Stem	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230368	10.40"	26.40"	16.30"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
33-230375	11.20"	28.30"	17.10"	Stem	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230429	11.20"	28.30"	17.10"	Stem	EB1*	1/2" 12mm	Yes	360/80	14mm
33-230399	11.50"	29.40"	17.90"	Stem	EB1*	1/2" 12mm	Yes	255/70	14mm
33-230436	12.20"	30.90"	18.70"	Stem	EB1*	1/2" 12mm	Yes	255/70	14mm

10" Travel

F4-B46-0359-H1	8"	<i>Standard Body</i>		180/75	22.05"	13.82"		Classic Yellow
F4-B46-0349-H2	8"	<i>Standard Body</i>		275/78	22.05"	13.82"		Classic Yellow
F4-B46-1362-H1	10"	<i>Standard Body</i>		170/60	25.82"	15.79"		Classic Yellow
F4-B46-1361-H1	10"	<i>Standard Body</i>		180/75	25.82"	15.79"		Classic Yellow
F4-B46-0360-H1	10"	<i>Standard Body</i>		275/78	25.82"	15.79"		Classic Yellow

12" Travel

F4-B46-1353-H1	12"	<i>Standard Body</i>		170/60	31.10"	19.37"		Classic Yellow
F4-B46-1351-H1	12"	<i>Standard Body</i>		275/78	31.10"	19.37"		Classic Yellow
F4-B46-0350-H1	12"	<i>Standard Body</i>		360/80	31.10"	19.37"		Classic Yellow

14" Travel

F4-B46-1072-H1	14"	<i>Standard Body</i>		150/50	34.80"	20.75"		Classic Yellow
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VW Off-Road

24-000338	5.02"	<i>Rear Swing Axle</i>		330/130	15.43"	10.41"		Classic Yellow
F4-B46-0930-H0*	5.36"	<i>Rear Swing Axle or IRS</i>		345/135	16.22"	10.86"		Zinc Plated
24-000321	4.96"	<i>Front King Pin Stock Beam</i>		289/104	15.24"	10.28"		Classic Yellow
F4-BOA-0000304	6.65"	<i>Front Ball Joint Beam Cut and Turned</i>		220/115	18.58"	11.93"		Zinc Plated

* 5/8" ID hourglass bushing

5165 SERIES

EYE TO EYE

25-187878	6.30"	17.30"	11.00"	EB1*	EB1*	1/2"	No	360/80	14mm
25-187861	7.50"	19.80"	12.30"	EB1*	EB1*	1/2"	No	170/60	14mm
25-187885	7.50"	19.80"	12.30"	EB1*	EB1*	1/2"	No	255/70	14mm

CUSTOM FIT

APPLICATIONS

APPLICATIONS

CUSTOM FIT

Part # Travel Description Valving Extended Collapsed Finish

Part # Travel Description Valving Reservoir Extended Collapsed

7100 CLASSIC SERIES *continued*

Coilover Shocks (Supplied with 2.5" single rate spring hardware)

F4-B46-0204-H0	5"	Coilover w/ Hardware	Custom	16.25"	11.25"	Zinc Plated
B46-02050R	6"	Coilover w/ Hardware	Custom	18.25"	12.00"	Zinc Plated
B46-0206W	8"	Coilover w/ Hardware	Custom	22.25"	14.00"	Zinc Plated
F4-B46-1103-H1	10"	Coilover w/ Hardware	255/100	26.65"	17.44"	Zinc Plated

Part # Travel Description Valving Reservoir Extended Collapsed

7100 SERIES

8" Travel

AK7108R01	8"	Reservoir Shock	150/50	Y	22.29"	14.06"
AK7108S01	8"	Non-Reservoir Shock	150/50	N	22.29"	14.06"
AK7108R02	8"	Reservoir Shock	170/60	Y	22.29"	14.06"
AK7108S02	8"	Non-Reservoir Shock	170/60	N	22.29"	14.06"
B46-0359R	8"	Reservoir Shock	180/75	Y	22.29"	14.06"
B46-0359S	8"	Non-Reservoir Shock	180/75	N	22.29"	14.06"
AK7108R04	8"	Reservoir Shock	255/70	Y	22.29"	14.06"
AK7108S04	8"	Non-Reservoir Shock	255/70	N	22.29"	14.06"
B46-0349R	8"	Reservoir Shock	275/78	Y	22.29"	14.06"
B46-0349S	8"	Non-Reservoir Shock	275/78	N	22.29"	14.06"
AK7108R06	8"	Reservoir Shock	360/80	Y	22.29"	14.06"
AK7108R06	8"	Non-Reservoir Shock	360/80	N	22.29"	14.06"
AK7108R99	8"	Reservoir Shock	Custom	Y	22.29"	14.06"
AK7108R99	8"	Non-Reservoir Shock	Custom	N	22.29"	14.06"

10" Travel

AK7110R01	10"	Reservoir Shock	150/50	Y	25.77"	16.10"
AK7110S01	10"	Non-Reservoir Shock	150/50	N	25.77"	16.10"
AK7110SB01	10"	Reservoir Short Body	150/50	Y	24.31"	14.21"
B46-1362R	10"	Reservoir Shock	170/60	Y	25.77"	16.10"
B46-1362S	10"	Non-Reservoir Shock	170/60	N	25.77"	16.10"
AK7110SBA	10"	Reservoir Short Body	170/60	Y	24.31"	14.21"
B46-1361R	10"	Reservoir Shock	180/75	Y	25.77"	16.10"
B46-1361S	10"	Non-Reservoir Shock	180/75	N	25.77"	16.10"
AK7110SB03	10"	Reservoir Short Body	180/75	Y	24.31"	14.21"
AK7110R04	10"	Reservoir Shock	255/70	Y	25.77"	16.10"
AK7110S04	10"	Non-Reservoir Shock	255/70	N	25.77"	16.10"
AK7110SB	10"	Reservoir Short Body	255/70	Y	24.31"	14.21"
B46-0360R	10"	Reservoir Shock	275/78	Y	25.77"	16.10"
B46-0360S	10"	Non-Reservoir Shock	275/78	N	25.77"	16.10"
AK7110SB05	10"	Reservoir Short Body	275/78	Y	24.31"	14.21"
AK7110R	10"	Reservoir Shock	360/80	Y	25.77"	16.10"
AK7110S	10"	Non-Reservoir Shock	360/80	N	25.77"	16.10"
AK7110SB06	10"	Reservoir Short Body	360/80	Y	24.31"	14.21"
AK7110R99	10"	Reservoir Shock	Custom	Y	25.77"	16.10"
AK7110S99	10"	Non-Reservoir Shock	Custom	N	25.77"	16.10"
AK7110SB99	10"	Reservoir Short Body	Custom	Y	24.31"	14.21"

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"
AK7114S06	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"

CUSTOM FIT

APPLICATIONS

Part #	Travel	Description	Valving	Reservoir	Extended	Collapsed
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7100 SERIES *continued*

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"

*Optional coilover kit available (Part #B4-BOA-0000117)

Part#	Travel	Description	Valving	Reservoir	Shaft Diameter	Extended	Collapsed
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8125 SERIES 46mm* (2")

33-225463	5"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	17.00"	12.00"
33-225487	6"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	19.00"	13.00"
33-225500	8"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	23.00"	15.00"
33-225524	10"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	27.00"	17.00"
33-225548	12"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	31.50"	19.50"
33-225562	14"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	35.50"	21.50"
33-225586	16"	46mm* Coilover w/ Hardware	255/100	46mm*	22mm	39.50"	23.50"

Part#	Travel	Description	Valving	Reservoir	Shaft Diameter	Extended	Collapsed
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8125 SERIES 60mm* (2.65")

8" Travel

33-225494	8"	60mm* Coilover Short Body w/ Hardware	370/110	60mm*	22mm	24.00"	16.00"
33-225579	8"	60mm* Coilover w/ Hardware	370/110	60mm*	22mm	25.50"	17.50"

10" Travel

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

12" Travel

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

14" Travel

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

16" Travel

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

PROFESSIONAL
OFF-ROAD RACING

9200 Series Bypass <
9200 Series Coilover <
Blackhawk® 9300 Series <



9200 SERIES Bypass

BILSTEIN 9200 Series Bypass shocks 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 is the easiest and most effective way to tune your off-road suspension for ultimate performance.

**BILSTEIN 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"
83mm	3.5"



Product Highlights

- > Available in 60mm*, 70mm* and 83mm* monotubes
- > 4-tube, position sensitive with adjustable rebound and compression
- > Multiple stroke lengths available ranging from 8" to 18"
- > 60mm* piggy back or remote reservoir
- > Case hardened, centerless ground piston rod (22mm or 1 1/8") depending on body diameter
- > Machined billet aluminum components
- > 5/8" uniball mounts with 1/2" step spacers
- > 3 stage high-temp seal
- > Red synthetic high-temp racing oil
- > Zinc plated
- > Multiple valvings available
- > Owner rebuildable
- > Made in the USA

9200 SERIES Coilover

Product Highlights

- > Available in 46mm* and 60mm* monotubes
- > Threaded body with dual rate coilover hardware
- > Multiple stroke lengths available ranging from 8" to 16"
- > Case hardened, centerless ground 22mm piston rod
- > Machined 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



9200 Series Coilover uses industry standard coilover springs

- > 46mm* shock uses a 2.5" ID Coilover Spring
- > 60mm* shock uses a 3.0" ID Coilover Spring

**BILSTEIN 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"



PROFESSIONAL

9300 SERIES

9300 SERIES

PROFESSIONAL



BLACK HAWK® 9300 SERIES

The Black Hawk® 9300 Series is the ultimate in off-road race shock technology. Its Radial Bypass Damping™ (RBD) design provides a superior level of performance and tuning capability. It's big and bold with an unmistakable hard anodized finish.

Product Highlights

- > One piece 6061 extruded aluminum body with hard anodized finish
- > 30% faster heat dissipation
- > 10% - 25% lighter than similar welded bypass steel shocks
- > 4.5" diameter aluminum reservoir with anti-cavitation valve (ACV)
- > Bypass tubes allow for position sensitive damping adjustability
- > Completely owner tunable and rebuildable
- > Made in the USA

Remote Reservoir

- > 4-1/2" diameter x 12" 6061-T6 aluminum reservoir housing
- > Anti-cavitation valve (ACV) (U.S. Patent 7628259) and large reservoir diameter reduces the required gas pressure, lowering the piston rod pressure and giving the vehicle greater damping control



Shock Body (U.S. Patent 7191877)

- > Rapid heat dissipating, one piece extruded 6061 aluminum construction featuring Radial Bypass Damping™ (RBD) technology
- > Approximately 30% faster cooling efficiency than steel and up to 100° lower peak operating temperatures
- > Stronger and 10%-25% lighter than similar welded steel bypass shock bodies without the distortion from welding

Incremental Bypass Flow Metering Valve™ (IFMV) (U.S. Patent 7325660)



- > Extremely accurate, incremental flow adjustment within a sealed mechanism for extreme resistance to dirt contamination
- > Easily adjustable color-coded Rebound (red) and Bump (blue) IFMV adjusters with an internal detent feature providing prominent "clicks" to each of the 9 settings
- > High impact, titanium check valve piston providing excellent wear characteristics

PROFESSIONAL APPLICATIONS

Part #	Travel	Description	Valving	Reservoir Body	Shaft Diameter	Extended	Collapsed
9200 SERIES BYPASS							
9200 SERIES BYPASS 83mm* (3.5")							
33-246666	10"	83mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	29.5"	19.5"
33-246673	12"	83mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	33.5"	21.5"
33-246680	14"	83mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	38.5"	24.5"
33-246697	16"	83mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	42.5"	26.5"
33-246703	18"	83mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	46.5"	28.5"

9200 SERIES BYPASS 70mm* (3")							
33-241210	10"	70mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	29.5"	19.5"
33-241227	12"	70mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	33.5"	21.5"
33-241234	14"	70mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	38.5"	24.5"
33-241241	16"	70mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	42.5"	26.5"
33-241258	18"	70mm* Bypass (4 Tube)	Custom	60mm*	1 1/8"	46.5"	28.5"

9200 SERIES BYPASS 60mm* (2.65")							
33-246710	8"	60mm* Bypass Short Body (4 Tube)	Custom	60mm*	22mm	24.0"	16.0"
33-246727	8"	60mm* Bypass (4 Tube)	Custom	60mm*	22mm	25.5"	17.5"
33-246734	10"	60mm* Bypass Short Body (4 Tube)	Custom	60mm*	22mm	28.5"	18.5"
33-246741	10"	60mm* Bypass (4 Tube)	Custom	60mm*	22mm	29.5"	19.5"
33-246758	12"	60mm* Bypass Short Body (4 Tube)	Custom	60mm*	22mm	32.5"	20.5"
33-247120	12"	60mm* Bypass (4 Tube)	Custom	60mm*	22mm	33.5"	21.5"
33-246765	14"	60mm* Bypass Short Body (4 Tube)	Custom	60mm*	22mm	37.0"	23.0"
33-247137	14"	60mm* Bypass (4 Tube)	Custom	60mm*	22mm	38.5"	24.5"
33-246772	16"	60mm* Bypass (4 Tube)	Custom	60mm*	22mm	42.5"	26.5"

9200 SERIES COILOVER

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

Part #	Travel	Description	Valving	Reservoir Body	Shaft Diameter	Extended	Collapsed
9200 SERIES COILOVER 46mm* (2")							
33-246789	8"	46mm* Coilover w/ Hardware	180/75	60mm*	22mm	23.0"	15.0"
33-246796	8"	46mm* Coilover w/ Hardware	255/100	60mm*	22mm	23.0"	15.0"
33-246802	8"	46mm* Coilover w/ Hardware	360/80	60mm*	22mm	23.0"	15.0"
33-246819	10"	46mm* Coilover w/ Hardware	180/75	60mm*	22mm	27.0"	17.0"
33-246829	10"	46mm* Coilover w/ Hardware	255/100	60mm*	22mm	27.0"	17.0"
33-246833	10"	46mm* Coilover w/ Hardware	360/80	60mm*	22mm	27.0"	17.0"
33-246840	12"	46mm* Coilover w/ Hardware	180/75	60mm*	22mm	31.5"	19.5"
33-246857	12"	46mm* Coilover w/ Hardware	255/100	60mm*	22mm	31.5"	19.5"
33-246864	12"	46mm* Coilover w/ Hardware	360/80	60mm*	22mm	31.5"	19.5"
33-246871	14"	46mm* Coilover w/ Hardware	180/75	60mm*	22mm	35.5"	21.5"
33-246888	14"	46mm* Coilover w/ Hardware	255/100	60mm*	22mm	35.5"	21.5"
33-246895	14"	46mm* Coilover w/ Hardware	360/80	60mm*	22mm	35.5"	21.5"
33-246901	16"	46mm* Coilover w/ Hardware	180/75	60mm*	22mm	39.5"	23.5"
33-246918	16"	46mm* Coilover w/ Hardware	255/100	60mm*	22mm	39.5"	23.5"
33-246925	16"	46mm* Coilover w/ Hardware	360/80	60mm*	22mm	39.5"	23.5"

9200 SERIES CARRIER 46mm* (2" NON-RESERVOIR)							
33-243528	8"	46mm* Coil-Carrier w/ Hardware	N/A	No	22mm	23.0"	15.0"
33-243535	10"	46mm* Coil-Carrier w/ Hardware	N/A	No	22mm	27.0"	17.0"
33-243542	12"	46mm* Coil-Carrier w/ Hardware	N/A	No	22mm	31.5"	19.5"
33-243559	14"	46mm* Coil-Carrier w/ Hardware	N/A	No	22mm	35.5"	21.5"
33-243566	16"	46mm* Coil-Carrier w/ Hardware	N/A	No	22mm	39.5"	23.5"

9200 Series Technical Specifications

Coilover Body: Monotube Seamless Steel 60mm or 46mm ACME Thread
Bypass Body(4-Tube): Monotube, Seamless Steel 60mm, 70mm, 83mm
Piston Rod (For 70mm and 83mm shocks): 1 1/8" Centerless Ground, Case Hardened
Piston Rod (For 46mm and 60mm shocks): 22mm Centerless Ground, Case Hardened
Piston: 7075 Machined Aluminum, Hard Anodized
Piston (For 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 and 83mm 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 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"
70mm	3.0"
83mm	3.5"

Part #	Travel	Description	Valving	Reservoir Body	Shaft Diameter	Extended	Collapsed
BLACK HAWK® 9300 SERIES							
AK9312BY	12"	Black Hawk 4 Tube Bypass	Custom	4.5"	1 1/8"	34.75"	22.75"
AK9314BY	14"	Black Hawk 4 Tube Bypass	Custom	4.5"	1 1/8"	38.75"	24.75"
AK9316BY	16"	Black Hawk 4 Tube Bypass	Custom	4.5"	1 1/8"	42.75"	26.75"
AK9318BY	18"	Black Hawk 4 Tube Bypass	Custom	4.5"	1 1/8"	46.75"	28.75"

Extended rod ends available in 1", 2", 3"

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.

SERVICING YOUR SHOCKS (9300/9200/8125/7100 Series) – USE NITROGEN ONLY!

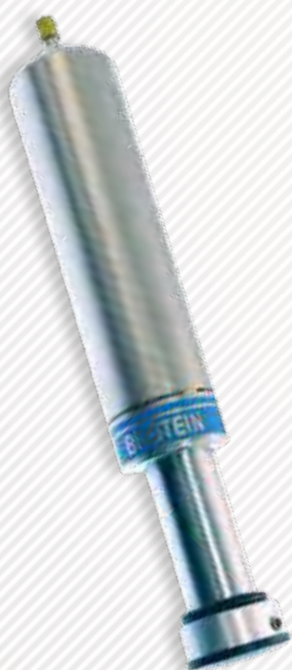
All shocks with a reservoir or schrader valve should be serviced on a regular basis. Failure to service your shock will reduce the life span and damage the shock absorber.

Nitrogen can be serviced through a fill valve located on the shock body (schrader shock) or at the end of the reservoir (reservoir shock).

Tip: 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.

9300 / 9200 / 8125 Series are delivered without nitrogen pressure. These shocks must be filled prior to use. Proper fill level ranges from 180 – 250 PSI on 9200 / 8125. Fill level ranges for 9300 Series are 70 – 100 PSI.



BUMP STOPS

BILSTEIN's new generation 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. The new BILSTEIN bump stops are available in 2", 3" and 4" travel models.

Product Highlights

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

Part #	Travel		Valving	Extended	Collapsed
F4-BE5-G724-M0	4"	Bump Stop w/ Delrin® Tip	Standard	13.2"	9.42"
F4-BE5-G723-M0	3"	Bump Stop w/ Delrin® Tip	Standard	12.2"	9.42"
F4-BE5-G722-M0	2"	Bump Stop w/ Delrin® Tip	Standard	11.2"	9.42"