

WAY AHEAD.

BILSTEIN



# BILSTEIN B8 5125 / 5165

## UNIVERSAL FIT SHOCKS

### BILSTEIN B8 5125 / 5165

BILSTEIN B8 5125 and BILSTEIN B8 5165 shock absorbers combine years of Bilstein off road experience and time-tested designs into a universal fit shock designed for specialty or modified vehicles. BILSTEIN B8 5125 is based on BILSTEIN B8 5100 technology, while BILSTEIN B8 5165 is based on BILSTEIN B8 5160 technology. Both are available with a variety of mounting and valving options to accommodate custom builds.

#### FEATURES & BENEFITS

- 46mm monotube design ensures consistent, fade-free performance
- Self-adjusting deflective disc valving reacts immediately to surface changes enabling maximum vehicle control
- High-flow linear piston reduces harshness
- Zinc plated finish with clear coat offers improved resistance to off-road elements
- Shock travel: 4.5 - 14.2"
- Available in stem-to-eye and eye-to-eye mounting configurations
- Eye mounts feature 5/8" hourglass bushings
- Adaptable components available for custom mounting solutions

#### B8 5165-SPECIFIC FEATURES

- Included remote reservoir for increased heat dissipation
- Reservoir mounting kit for piggyback or roll cage fitment
- Dimensionally optimized and will provide more travel than B8 5125



B8 5125

B8 5165

**\*\* Adaptable components available for custom mounting solutions**

## EYE TO EYE

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter	Piston Type
				Upper	Lower					
33-187112	5.26"	16.38"	11.12"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-062518	6.46"	18.53"	12.07"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-233970	7.37"	20.41"	13.04"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-230313	8.04"	21.7"	13.66"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Soft	14mm	Linear
33-185590	7.96"	21.62"	13.66"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-230443	8.43"	22.57"	14.13"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Soft	14mm	Linear
33-185606	8.43"	22.57"	14.13"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-186542	9.22"	24.34"	15.12"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-230320	9.22"	24.34"	15.12"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Firm	14mm	Linear
33-104645	10.01"	25.91"	15.91"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Soft	14mm	Linear
33-185552	10.01"	25.91"	15.91"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-230344	10.01"	25.91"	15.91"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Firm	14mm	Linear
33-186559	10.99"	28"	17.01"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Soft	14mm	Linear
33-104652	10.99"	28"	17.01"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-230382	11.78"	29.69"	17.91"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Soft	14mm	Linear
33-185569	11.78"	29.69"	17.91"	Eye 5/8"	Eye 5/8"	1/2"	Yes	Medium	14mm	Linear
33-185576	14.14"	34.91"	20.77"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear

## STEM TO EYE

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter	Piston Type
				Upper	Lower					
33-230306	4.5"	13.91"	9.41"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230405	5.68"	16.43"	10.75"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-186504	6.64"	18.53"	11.89"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230450	8.59"	22.91"	14.32"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230412	9.22"	24.41"	15.19"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230337	9.4"	24.41"	15.01"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230351	10.28"	26.41"	16.13"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230368	10.4"	26.41"	16.01"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230375	11.25"	28.35"	17.11"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230429	11.25"	28.35"	17.11"	Stem	Eye 5/8"	1/2"   12mm	Yes	Firm	14mm	Linear
33-230399	11.52"	29.41"	17.89"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230436	12.17"	30.91"	18.74"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230399	11.52"	29.41"	17.89"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear
33-230436	12.17"	30.91"	18.74"	Stem	Eye 5/8"	1/2"   12mm	Yes	Medium	14mm	Linear

## BILSTEIN 5165 OPTIONAL RESERVOIR MOUNTS



**Billet Piggyback Mounting Clamp**  
11-176015



**Frame Mount Clamp**  
B4-KT2-Z009A00

## EYE TO EYE

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter	Piston Type
				Upper	Lower					
25-331868	6.27"	17.35"	11.08"	Eye 5/8"	Eye 5/8"	1/2"	No	Firm	14mm	Linear
25-331745	7.45"	19.75"	12.3"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331820	7.45"	19.75"	12.3"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331875	8.79"	22.43"	13.64"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331752	8.79"	22.43"	13.64"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331844	9.42"	23.65"	14.23"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331806	9.42"	23.63"	14.21"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331851	9.42"	23.65"	14.23"	Eye 5/8"	Eye 5/8"	1/2"	No	Firm	14mm	Linear
25-331790	9.81"	24.42"	14.61"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331813	9.81"	24.44"	14.63"	Eye 5/8"	Eye 5/8"	1/2"	No	Firm	14mm	Linear
25-331783	11.33"	27.45"	16.12"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331738	11.33"	27.47"	16.14"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331776	11.33"	27.45"	16.12"	Eye 5/8"	Eye 5/8"	1/2"	No	Firm	14mm	Linear
25-331714	11.58"	28.55"	16.97"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331721	13.14"	31.09"	17.95"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331691	13.14"	31.07"	17.93"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear
25-331769	14.14"	34.79"	20.65"	Eye 5/8"	Eye 5/8"	1/2"	No	Soft	14mm	Linear
25-331707	14.14"	34.79"	20.65"	Eye 5/8"	Eye 5/8"	1/2"	No	Medium	14mm	Linear

## STEM TO EYE

Part #	Travel	Extended Length	Collapsed Length	Mounting		Sleeves	Boot	Valving	Shaft Diameter	Piston Type
				Upper	Lower					
25-331882	7.45"	19.22"	11.77"	Stem	Eye 5/8"	1/2"   12mm	No	Firm	14mm	Linear
25-331899	8.39"	21.19"	12.8"	Stem	Eye 5/8"	1/2"   12mm	No	Firm	14mm	Linear
25-331837	8.79"	22.04"	13.25"	Stem	Eye 5/8"	1/2"   12mm	No	Firm	14mm	Linear

## ADAPTABLE BUSHING HARDWARE

## SLEEVES

Part #	Dimensions (mm)	Notes
E4-R01-Z008B43	17x12.7x35	5125/5165 Standard 1/2" Sleeve
E4-R01-Z008C34	17x12x35	5125/5165 Standard 12mm Sleeve
E4-B46-60A	16x10x32	
E4-B46-60R1	20x14.4x42.4	Must replace 3/4" Bushing Part # 2202G
E4-R01-Z008C58	20x14.1x34	Must replace 3/4" Bushing Part # 2202G

## BUSHINGS

Part #	Dimensions	Notes
E4-B46-248	5/8" Hourglass	Replacement 5/8" Bushing
2202G	3/4" Hourglass	
E4-GV1-Z066B46	14mm ID x 42.4mm Wide	14mm bonded with sleeve

## CROSSBARS WITH BONDED BUSHINGS

Part #	Dimensions	Notes
E4-GV3-Z009A08	2.86" center to center	Max 5/16" fastener OD
E4-GV3-Z009A04	2.4" center to center	Max 3/8" fastener OD
E4-GV3-Z009A07	3.11" - 3.27" center to center	Max 3/8" fastener OD
E4-GV3-Z008A02	2.54" center to center	Max 5/16" fastener OD

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# HOW TO MEASURE A BILSTEIN SHOCK

## MOUNTING POINT REFERENCE



EYE



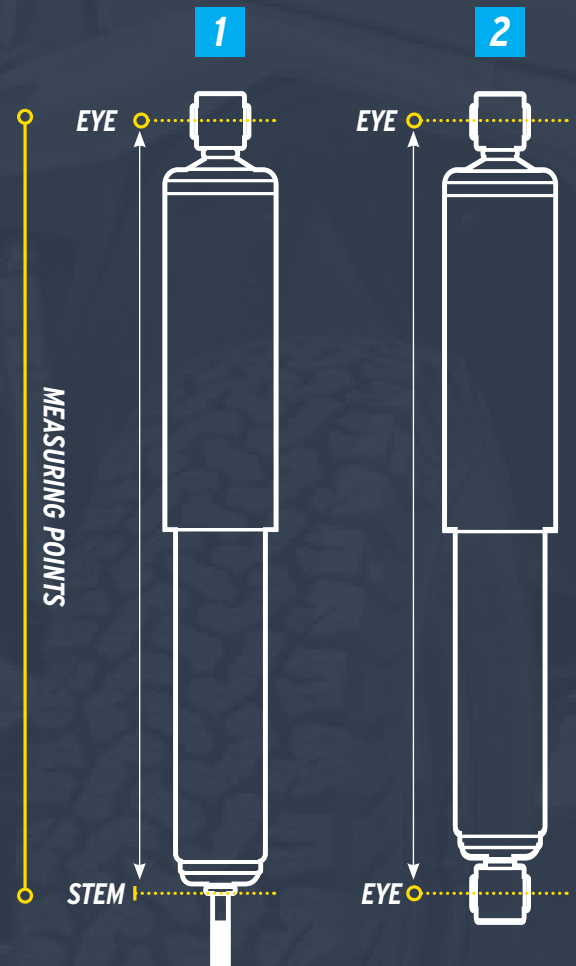
STEM

### 1 EYE TO STEM

A stem to eye shock is measured from the base of the stem where the mounting hardware rests to the center of the eyelet.

### 2 EYE TO EYE

An eye to eye shock is measured from the center of one eyelet to the center of the other eyelet.



## VALVING GUIDE

Truck / SUV	Spring F/R	Recommended Valving F/R
LC80 / Range Rover	Coil/Coil	Firm / Firm
Jeep TJ / ZJ	Coil/Coil	Medium / Medium
Jeep XJ	Coil / Leaf	Medium / Medium
Jeep CJ / YJ	Leaf / Leaf	Medium / Soft
FJ 40	Leaf / Leaf	Medium / Medium
Small Pick Up/SUV (IFS / TTB)	Coil / Leaf	Firm / Soft
Small Pick Up/SUV (IFS)	Torsion / Leaf	Firm / Soft
Small Pick Up/SUV (Solid Axle)	Leaf / Leaf	Medium / Soft
Small Pick Up/SUV (Solid Axle)	Coil / Leaf	Medium / Soft
Full Size Pick Up (IFS / TTB)	Coil / Leaf	Firm / Medium
Full Size Pick Up (IFS)	Torsion / Leaf	Firm / Medium
Full Size Pick Up (Solid Axle)	Leaf / Leaf	Medium / Medium
Full Size Pick Up (Solid Axle)	Coil / Leaf	Firm / Medium

Van	Spring F/R	Recommended Valving F/R
Van 4x4 / RWD	Coil / Leaf	Firm / Firm
Van 4x4	Leaf / Leaf	Firm / Firm

Dual Shocks	Spring F/R	Recommended Valving F/R
Dual Shock kit	Front Leaf	Soft
Dual Shock kit	Front Torsion	Medium
Dual Shock kit	Front Coil	Soft

VW Off Road (Beam Front)	Spring F/R	Recommended Valving F/R
Buggy / Baja Bug	Torsion / Torsion	Medium / Firm

**Soft** - Light sprung & unsprung weight, low motion ratio

**Medium** - Moderate sprung & unsprung weight, average motion ratio

**Firm** - Heavy sprung & unsprung weight, high motion ratio

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