

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 | Soft | 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



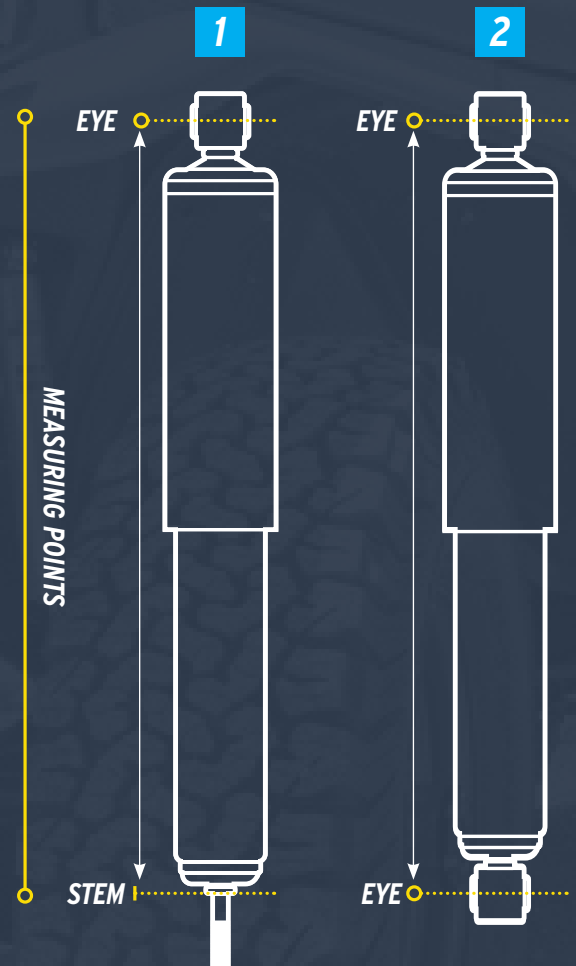
STEM

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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