OFF-ROAD RACING.

LIGHT TRUCK & OFF-ROAD SHOCKS.

BILSTEIN



Externally adjustable off-road shocks

- Available in 60mm, 70mm, or 83mm monotube designs
- 4-tube bypass with adjustable rebound and compression
- Position sensitive damping
- Piggy back reservoir
- Available in multiple travel lengths from 8-18"
- Case hardened piston rod
- High-temp racing seals
- Red synthetic racing oil
- 5/8" stainless heim uniball mounts with 1/2" step spacers
- Zinc plated
- Billet machined components
- Owner rebuildable

Distributed By:

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THE TECHNOLOGY OF BILSTEIN'S MONOTUBE DESIGN.

BILSTEIN's Industry Leading

Provides superior tube strength

One Piece Aluminum Rod

Keeps dirt out and maintains a

nearly friction-free surface for

Hard Chrome Piston Rod

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.

Features a super finished hard

while maximizing heat dissipation

Monotube Design

and shock life.

Guide & Seal

longer life.

Heat is one of the major detriments 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.

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.



High Pressure Nitrogen Gas & BILSTEIN'S DIGRESSI "Floating" Dividing Piston The niston head de

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'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.





shock, foaming



Gas-pressure shock, no foaming

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.

Application specific tuning

• Utilizes OE top mount and

Limited Lifetime Warranty

spring isolator

• Available in various lengths and

valvings for use on modified or

specialty vehicle applications



Limited Lifetime Warranty

Limited Lifetime Warranty

Please scan for more information, videos and application look-up.

• Available in various lengths and

specialty vehicle applications

valvings for use on modified or

¹Depending on application

Zinc plated for resistance to

• 5/8" heim mounts with 1/2"

Billet machined componentsOwner rebuildable

High temperature seals and hose

off-road elements

step spacers