Gabriel® HD

THE ORIGINAL

Product Guide

TRUCK TRAILER AND BUS SHOCKS

BILLION-MILE VERIFIED

QUALITY

PROVEN

DURABILITY

IN REAL-WORLD USE

WITH BILLIONS OF REAL WORLD MILES

Decades of experience deliver results.

- FleetLine® and GasSLX® HD product designs have been **proven** on- and off-pavement for over six decades
- Gabriel products have been tested and improved over time based on real-world use and increasing demands
- FleetLine® and GasSLX® deliver the **results** you expect — mile after mile, job after job

Unmatched coverage.

- Gabriel Truck, Trailer and Bus shock **coverage** is unmatched in the HD aftermarket industry
- Extensive FleetLine® and GasSLX® product lines cover more than 13,000 OE part numbers and more than 27,000 aftermarket part numbers
- Gabriel exceeds many competitors' listed offerings by more than 50 percent in total

Gabriel is your one stop supplier for:

- ☑ Coverage
- ☑ Durability
- ☑ Chromed Piston Rods
- ☑ Anti-Corrosive End Mounts
- ☑ Best-In-Class Hydraulic Stop
- ☑ Cab Shocks
- ☑ Extreme Heavy-duty Applications
- ☑ Horizontal Applications
- ☑ Adjustability
- ☑ High Temperature Fluid
- ☑ Gas Cell

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HEAVY-DUTY SHOCKS FOR CLASS 3 - 8 TRUCKS, TRAILERS AND BUSES

FLEETLINE® AND GasSLX®

Fleetline® Cab Shocks

Fleetline® Cab Shocks

Heavy-duty shocks specifically designed to improve comfort and reduce vibration in cab suspensions

- 1", 1 3/16", 1 3/8", 1 5/8" bore sizes to address all cab suspensions and designs

Fleetline® 83000 Series

83000 Heavy Duty Series

A heavy-duty product designed for class 3 – 6 vehicles and heavy truck suspensions

- 1 3/8" bore
- Self-compensating piston seal for consistent damping throughout the shock life

Fleetline® 85000 Series

85000 Heavy Duty Series

A heavier-duty product designed for class 6 – 8 trucks, buses and trailers

- Larger 1 5/8" bore for increased durability
- Bulged design* for increased fluid capacity and cooler operation in extreme conditions
- Best-in-class hydraulic stop[1], super-rugged solid end mounts, and durable piston seal provide industry leading durability

GasSLX® 89000 Series

89000 Adjustable Severe Duty Series — GasSLX®

Premium, adjustable, severe duty gas cell shock for class 7 – 8 vehicles, school buses and transit buses

- Three position adjustability offers personal ride selection: regular, firm and extra firm
- Specially formulated H.T. fluid reduces friction and wear in extreme operating conditions
- Unique Gas Cell design double seals for superior gas retention
- 1 5/8" bore, forged solid steel eye rings and 360° arc-welded end mounts for superior durability

SHOCKS AND STRUTS ALSO AVAILABLE FOR LIGHT TRUCKS

* 85300 Series and 85700 Series

[1] Where required

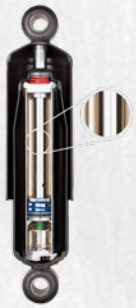
PRODUCT FEATURES

SCAN TO WATCH

See the TOP 5 REASONS why FleetLine® is the BEST heavy duty shock absorber!

End Mount Anti-Corrosion Coating*

- Inhibits rust, prevents bolt seizure to mounting sleeve
- Reduces replacement downtime

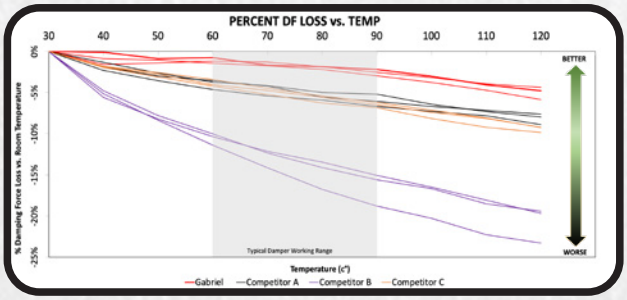


Chromed Piston Rods – The best defense against corrosion

- Inhibits rust, minimizes deterioration
- Reduces the amount of wear on the seal
- Increases the life of the shock

Formulated Shock Oil

- Reduces fade* *
- Carry heavier loads over rugged terrain for longer periods of time



FLEETLINE OFFERS BETTER PERFORMANCE

UNDER HEAT

With FleetLine, you can carry heavier loads over rugged terrain for longer periods of time without losing performance.

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* Most common applications
* *In Gabriel benchmark testing

Heavy-duty durability — proven, through and through.

Best-In-Class Hydraulic Stop[1] – Gabriel is the U.S. originator of this uniquely robust hydraulic stop design

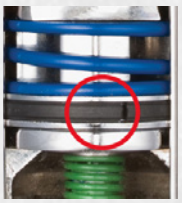
- Provides up to eight times greater force absorption that competitors' designs
- Traps more oil volume and has better sealing capabilities than competitors' designs
- Improves ride control comfort and provides unparalleled system durability
- Significantly reduces fatigue in mounts, lights and other vibration-sensitive components

Eye Ring

End Mount

Super-Rugged Solid End Mounts – Providing extraordinary structural strength

- Tough as nails, solid steel eye ring with a 360° reinforced arc weld[2] rather than the more common split eye ring and two-place welding design
- Enhanced design allows for greater tensile strength[3]
- Exceptional bond between the eye ring and piston rod
- Superior structural integrity reduces end mount failures
- Built tough to withstand multi-directional flexing of today's suspensions



Durable Piston Seal Design – Self-compensates for wear

- Incorporates a rubber (or cast iron[4]) piston seal that adjusts to maintain a tight seal between the piston and the pressure tube
- Unlike many competitors' designs, Gabriel's design minimizes oil bypass and provides consistent performance over the shock life
- Increases control capabilities at low velocities

[1] Where required
[2] Excluding 83000 series
[3] In Gabriel benchmark testing
[4] Dependent on designs

BUILT RUGGED TO CARRY YOUR FLEET ACROSS ALL ROAD ENVIRONMENTS

Quality components, precision engineering and a durable, robust design ensure top performance throughout the life of Gabriel® heavy-duty shock absorbers, and reduce wear and tear on other costly suspension parts.

SCAN FOR MORE INFO ON FLEETLINE

Drawn over Mandrel (D.O.M.) Inner Cylinder Tube

- Provides smooth surface on inner cylinder for piston seal and piston bearing face
- Less chance of scoring and better durability

Chromed Piston Rods

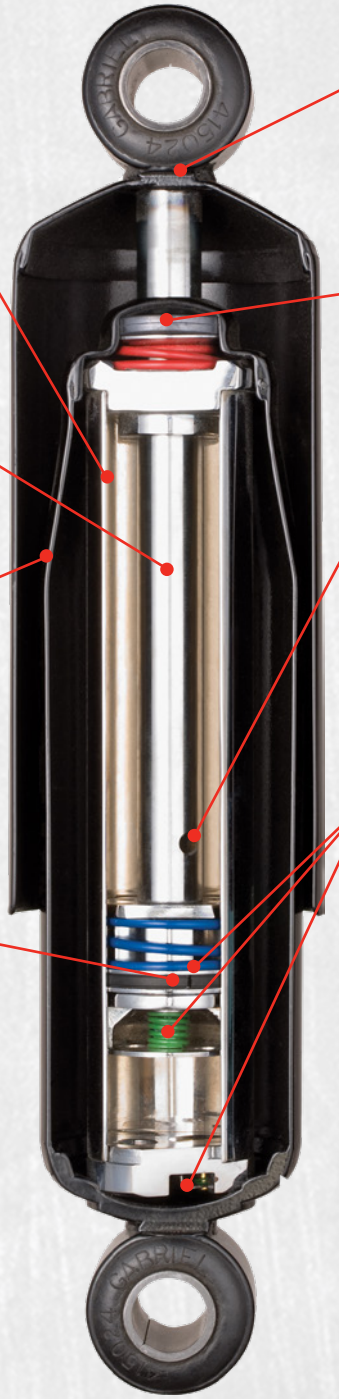
- Provides superior corrosion resistance, performance and product life

Bulged Design* *[2]

- Increased fluid capacity
- Lower operating temperatures
- Less internal wear due to heat dissipation

Pressurized, Floating Piston Seal Design

- Self-compensates for wear over shock life
- Rugged and durable design
- Less fade, more consistent performance over the full range
- Reduces force-velocity variabilities, increases control capabilities at low velocities



Forged Solid Steel Eye Rings and 360° Arc-Welded End Mounts*

- Greater tensile strength
- Reduces end mount failures

Triple Lip, Nitrile Rod Seal[2]

- Extra seal protection improves fluid retention
- Leads to longer product life

Hydraulic Extension Stop[1]

- Unique and robust design
- Prevents shocks from topping out and suspensions from over-extending
- Significantly reduces fatigue in mounts, lights and other vibration sensitive components

All Coil Spring Valving

- For comfort and control
- Enhanced durability
- Self-cleaning

GasSLX® Severe Duty - Features the benefits noted above, plus:

- Adjustable - 3 positions
- Gas Cell - Separates gas from fluid
- Reduced fade
- High Temperature (H.T.) Fluid
- Multi-lip Viton Rod Seal

SCAN FOR MORE INFO ON GASSLX

* Excluding some or all 83000 Series
* *Including 85300 and 85700 Series

[1] Where required. [2] Excluding GasSLX
Note: Features may vary by part number

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CHECK YOUR HD SHOCKS!

CheckYourShocks.com

Reduce down time with regular maintenance.

Today's low friction class 3 – 8 suspensions require high functioning shocks to minimize wear and protect suspension components from vibration damage, tires included. Worn shocks also increase driver fatigue because they cannot properly dampen the suspension oscillation that gets transferred to the truck cab of today's sophisticated suspension systems.

A program of regularly scheduled shock absorber inspection and maintenance will help avoid down time and reduce wear on other components. In between these regularly scheduled reviews, watch for signs that wear is occurring.

Indications that maintenance may be required and shocks should be checked for replacement include:

- Uneven Tire Wear
- Ride Deterioration
- Excess Vibration
- Sagging Taper Leaf Springs
- Premature Wear
- Broken or Torn Air Springs

Signs that it's time to replace shock absorbers:

Leaking | **Upper or lower mount broken** | **Upper or lower bushing torn** | **Broken internally or jammed in collapsed position** | **Improper installation** | **Dust tube broken** | **Truck mount failure** | **Bent or dented**

Above shows the visual signs of shock failure but when a shock has failed internally, it is visually undetectable. It is a good maintenance practice to perform the following Heat Test. Shocks generate heat when working. As a result, the shock body should be slightly warm to hot after normal use. By comparing the temperature of the shocks and the frame rail, you can get an idea of the working condition of the shock.

Take the Heat Test

WATCH THE GABRIEL HEAT TEST

1. Drive the vehicle for at least 15 minutes.

2. Within five minutes after stopping the vehicle, establish a reference temperature of the surrounding chassis frame using the Gabriel Shock Tester or similar infrared thermometer gun. Next, check the temperature of the shock absorber body below the dust tube (about 1" from the bottom cap).
WARNING: DO NOT touch the shock as it may be hot and could cause a burn injury – The Gabriel Shock Tester or similar measuring device is recommended.

3. All shock absorbers should be warmer than the chassis. Suspect a failure in any shock absorber that is noticeably cooler than its mate on the other end of the axle. Different temperatures from axle to axle do not indicate failures, but a cooler temperature on any one axle does warrant removal and examination of the cooler shock absorber. To inspect for an internal failure, remove and shake the suspected shock. Listen for the sound of metal components rattling inside which can indicate that the shock has an internal failure.

Measure 1" from the bottom cap

QUESTIONS ANSWERED.

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THE ORIGINAL

Ride Control Answer Garage/Tech Line:

800.999.3903

For application, technical and product questions
Monday - Friday, 9AM - 4PM ET

Gabriel Customer Service:

800.251.5932

To place and track orders
Monday - Friday, 7AM - 5PM CT

Check out our Training Videos:

How to Check Your HD Shocks

HD Shock Installations

Misting vs. Leaking Shocks

Maximize Tire & Air Spring Life

Top 5 Reasons to Choose FleetLine®

FIND MORE AT GABRIEL.COM

part lookup, product info, technical help & training

Ride Control, LLC, 39300 Country Club Dr.
Farmington Hills, MI 48331, 248.247.7600

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