

Product Guide TRAILER TRAILER AND BUS





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 3,000 OE part numbers and more than 2,000 competitors' aftermarket part numbers
- Gabriel exceeds its nearest competitor's 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









Fleetline® Cab Shocks



Fleetline® 83000 Series



Fleetline® 85000 Series



GasSLX® 89000 Series



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

83000 Series

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

- 13/8" bore
- Self-compensating piston seal for consistent damping throughout the shock life

85000 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
- Self-compensating piston seal for consistent damping throughout the shock life

89000 Adjustable Series — GasSLX®

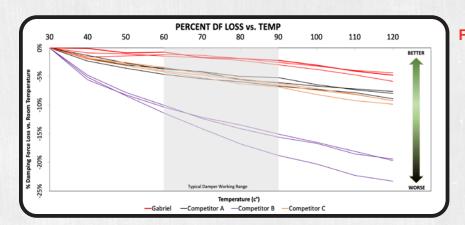
Premium, adjustable, heavy-duty gas shock for class

- 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



Performance & Durability



FLEETLINE OFFERS BETTER PERFORMANCE

UNDER HEAT

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



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



Heavy-duty durability — proven, through and through.



Best-In-Class Hydraulic Stop¹ – Gabriel is the U.S. originator of this uniquely robust hydraulic stop design

- Provides up to eight times greater force absorption than 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



Eve Ring



End Mount

Super-Rugged Solid End Mounts - Providing extraordinary structural strength

- Tough as nails, solid steel eye ring with a 360° reinforced arc weld⁴ rather than the more common split eye ring and two-place welding design
- Enhanced design allows for greater tensile strength²
- 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 iron³) 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

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.

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

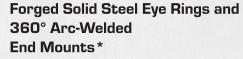
 Provides superior corrosion resistance, performance and product life

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



- Greater tensile strength
- Reduces end mount failures

Triple Lip, Nitrile Rod Seal²

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

Hydraulic Extension Stop¹

- 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® - 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

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





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 "Shock 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

- 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.



QUESTIONS ANSWERED.





ANSWER GARAGE



Ride Control Answer Garage/Tech Line:

800.999.3903

For application, technical and product questions Monday - Friday, 8AM - 5PM CT **Gabriel Customer Service:**

800.251.5932

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

Check out our Training Videos:

How to Check for Worn Shocks



HD Shock



How to Maximize



FleetLine® Cev Advantages



FIND MORE AT GABRIEL.COM

part lookup, product info, technical help & training



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