HV™ SERIES
509SFA



- Construction Dump
- Mobile Aerial Crane
- Tank
- Utility
- Refuse
- Municipal Plow
- Fire and Emergency

INTERNATIONAL

The International® HV™ 509 Series truck has the performance and durability needed to take on the most-demanding jobs. Its standard wide-track front axle provides excellent maneuverability and its compact 109” BBC and 29.5” BA set-forward axle configuration is ideal for weight-sensitive bridge formula applications. The HV509 features a roomier interior with customizable controls that help keep you comfortable and productive over long hours on the job. The enhanced and dependable International® Diamond Logic® electrical system offers custom, user-programmable interlocks to enhance the safety and productivity of your crew and equipment. So, whether you’re restoring power following a major storm, clearing the way after a heavy snowfall or hauling aggregate, the HV509 can take on whatever the job requires.

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- Heavy duty, double-sided galvanized steel cab for long-term durability
- Sloped hood and panoramic windshield for a commanding view of the jobsite
- Enhanced International® Diamond Logic® electrical system with available customized dash switches for unparalleled truck and body integration
- Available premium gauge cluster with customizable digital display
- Easy-access column-mounted shifter integrated with engine braking helps keep hands on the wheel and eyes on the road
- Optional .5" thick single frame rail rated up to 3.3M in-lbs RBM
- Easy entry and exit for driver and passenger to help reduce fatigue
- Available OEM-backed Planned Maintenance featuring proactive service scheduling, is designed to maximize uptime and help protect against rising maintenance costs



109" BBC SET-FORWARD FRONT AXLE

GVW	27,500 - 53,000 lbs. (4x2) 27,500 - 51,000 lbs. (4x4) 44,000 -68,000 lbs. (6x4) 44,000 - 66,000 lbs. (6x6)
BBC/BA	109" BBC / 29.5" BA
Cab Configurations	Day Cab / Extended Cab / Crew Cab
Wheelbase Options	136" – 420"
Axle Configurations	4x2; 4x4; 6x4; 6x6
Rear Axle	**Single Rear Axle (4x2)** Cummins-Meritor • Single Reduction: 17,000 – 30,000 lbs. • Double Reduction: 30,000 – 38,000* lbs. • Two-Speed: 21,000 – 23,000 lbs. Dana Spicer • Single Reduction: 17,500 – 31,000 lbs. **Tandem Rear Axle (6x4)** Cummins-Meritor • Single Reduction: 40,000 – 46,000 lbs. Dana Spicer • Single Reduction: 46,000 lbs.
Front Axle	Cummins-Meritor • Non-Driving: 10,000 – 22,000 lbs. • Driving: 10,000 – 20,000 lbs. Dana Spicer • Non-Driving: 10,000 – 14,700 lbs.
Frames	Frame Rail Rating up to 3.3M in.-lbs. RBM and "C" Channel Reinforced Frame Rail Rating of 3.5M in.-lbs. RBM
Front Suspension	Spring Multi-leaf: 14,000 – 20,000 lbs. Parabolic Taper-leaf: 10,000 – 22,000 lbs. Auxiliary and Bias Springs Available
Rear Suspension	Chalmers: 23,000 – 46,000 lbs. Hendrickson • RT: 40,000 – 46,000 lbs. • HAS: 23,000 – 46,000 lbs. • HMX: 40,000 – 46,000 lbs. • PRIMAAX: 20,000 – 46,000 lbs. Link: 46,000 lbs. International: 20,000 – 40,000* lbs.
Electrical System	Alternators • 12 Volt, 160 – 325 Amp Battery Systems • 12 Volt, 1320 – 3800 CCA
Exhaust System	Frame Mounted Right Side, Back of or Under Cab Horizontal or Vertical Tailpipe Right Side Back of Cab
Brakes	Air Disc and Drum Brakes with ABS, Optional Traction Control, Optional Electronic Stability Program with Traction Control
Power Steering	Single Power Dual Power on Front Axle 16,000 lbs. and Above
Engines	Cummins® X10: Up to 380 hp, 1,250 lb.-ft. of torque
Transmissions	Eaton Manual: 6, 8LL (10), 9ALL (11) and 13-speed Allison Automatic: 2500, 3000, 3500, 4000, 4500 (HS, EVS, RDS)
Fuel Tanks	40 – 160 Gallons, Single or Dual, Non-Polished or Polished Aluminum, Mounted Right or Left Side Under Cab
Tires	Continental, Michelin, Goodyear
Safety	Fusion 3.0, Optional Data Recorder and Side Object Detection

*Application Restriction
**Higher ratings limited to fire and rescue applications

Note: The information and conclusions contained herein are believed to be correct at time of publication, but do not necessarily apply to similar vehicles with different specifications or with production dates after the production of this publication. Vehicles with different specifications or later dates of production may yield different results. Vehicle specifications are subject to change without notice. TAD24004 01/2026 ®2026 International Motors, LLC (d/b/a International Motors USA LLC in Illinois and Ohio). All rights reserved. All marks are trademarks of their respective owners.

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