

DALLAS SMITH CORP.®

DALLAS SMITH CORP.® **Air-Chassis™**

GM/Chevrolet 4500 Air-Chassis® with IntelliSYNC®



- ✓ **Intelli SYNC®** Air-Ride Suspension System.
- ✓ Rated for up to 500 full vehicle kneel cycles within a 24-hour period of continuous use, 365 days a year.
- ✓ DSC **Intelli SYNC®** 210 10CFM High Duty Cycle Compressor - DC driven.
- ✓ No steps, 1:6 purpose-built accessibility.
- ✓ "Buy America" certified.
- ✓ Standard limited 3-year/36,000 mile warranty.
- ✓ Wide-Trac™ Air Ride Suspension System for enhanced vehicle lateral & longitudinal stability.



LF Transport
Champion Chevrolet 4500



DSC U-Frame™



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PATENTS
PENDING

Base Vehicle:

- GM/Chevrolet 4500 Cutaway Chassis
- GVWR: 14,200 (DRW)
- Brake System: Original Equipment Manufacturer (OEM)
- Engine: OEM, V-8 Duramax Diesel
- Exhaust: OEM stainless steel exhaust pipes and muffler properly installed with heat shields and baffles.
- Chassis Frame: Passenger side Equal-Access U-Frame™ frame rail extension section engineered by Dallas Smith Corp. (patents pending)
- CNG: option - contact bus manufacturer

IntelliSYNC® Air-Ride Suspension System:

- IntelliSYNC® Air-Ride Suspension System, GM/Chevrolet 4500 model.
- "Buy America" certified.
- DSC IntelliSYNC® 210 10CFM High Duty Cycle Compressor - DC driven.
- DSC in-line air-cooler to reduce operating air system temperature approximately 150 degrees Fahrenheit or less to improve overall air suspension system efficiency and durability.
- All IntelliSYNC® suspension air system lines, fittings, valves, connectors and tanks are color-coded for plug n' play operation and meet or exceed D.O.T. specifications.
- Front vehicle springs - two (2) 5,000 (lbs.) maximum combined capacity, double convoluted air springs by Firestone®.
- Automatic regenerating in-line air system dryer/filter with dedicated purge tank.
- DSC LoPro™ Heavy Duty Travel Bushings.
- IntelliSYNC® GM/Chevrolet 4500 designed LoPro™ air beams by Dallas Smith Corp., and rated specifically to vehicle's GAWR providing enhanced "wide-trac" vehicle lateral and longitudinal stability.
- Full vehicle kneel functionality.
- System safety control valves.
- Integrated interlock safety systems.
- User interface dash panel control features with complete air system monitoring.

- Full vehicle flow-controlled kneel within a not-to-exceed time of approximately eight (8) seconds.
- Environmental chamber testing (-40 to 180 degree Fahrenheit).
- Easy service and maintainability.
- Standard limited 3-year/36,000 mile warranty.

Testing and Industry Validation:

- All DSC Air-Chassis™ IntelliSYNC® suspension systems installed by a select, recognized, qualified vehicle modifier or speciality vehicle manufacturer.
- Vehicle accessibility-rail and suspension FEA independently performed by a certified and registered professional engineering service with documentation to establish that the chassis and suspension used produces a ride quality comparable to the best state of the art for low floor vehicles.
- FMEA – Chassis suspension system thoroughly analyzed utilizing rigorous FMEA process.
- ALTOONA - Vehicle durability testing/validation to be complete Spring 2013.
- FIELD DURABILITY - Vehicle suspension tested and rated to produced up to 500 kneel cycles within a 24-hour period of continuous use, for 365 days a year, in various all-weather climates.

Manuals:

In addition to the contractor supplied information; vehicle suspension manuals, diagrams, schematics, and part's reference shall be available/accessible online and downloadable/printable.

About Dallas Smith Corp.:

For over 60 years, Dallas Smith Corp. has been providing the transportation industry with safer, smarter, and easier transportation solutions. We are a complete design, engineering, and manufacturing company focusing entirely on low floor chassis and suspension systems for commercial application vehicles. Our patented technology is built, tested, and certified by the industry's very best!

PRELIMINARY SPECIFICATIONS: Dallas Smith Corp. (DSC) reserves the right to change, modify, alter any of the specifications listed, without notice, to accommodate any changes in Base Vehicle or Systems used.

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