

DALLAS SMITH CORP.®

DALLAS SMITH CORP.® **Air-Chassis™**

## Ford E-450 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 or engine 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.



DSC U-Frame™



Champion Ford E-450 LF Transport



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PATENTS  
PENDING

<b>Base Vehicle:</b>	FORD E-450 Cutaway Chassis
<b>GVWR:</b>	Max. GVW rating (lbs.) of 14,500 (DRW s/6.8L Gas), with a 5000 (lbs.) maximum front GAWR twin I-beam IFS 9,600 Dana Full Floating Rear Axle
<b>Brake System:</b>	Brake System: Original Equipment Manufacturer (OEM)
<b>Engine/HP/Torque:</b>	6.8L Triton® V10, 305 HP @ 4250 RPM/420lb.-ft. torque @ 3250 RPM
<b>Exhaust:</b>	OEM stainless steel exhaust pipes and muffler properly installed with heat shields and baffles.
<b>Chassis Frame:</b>	Passenger side Equal-Access U-Frame™ frame rail section engineered by Dallas Smith Corp. (patent pending), and installed by a Ford Motor Company QVM Program participant.
<b>Axle &amp; Ratio:</b>	OEM, Twin I-Beam IFS, with a capacity of 5,000 (lbs.) with Dana Full Floating Axle, ratio of 4.56 (std.)
<b>CNG:</b>	CNG (option - contact bus manufacturer)

### IntelliSYNC® Air-Ride Suspension System:

- IntelliSYNC® Air-Ride Suspension System, Ford E-450 model.
- "Buy America" certified.
- Four( 4) OEM 1.38" HD gas-type, front and rear shock absorbers.
- DSC IntelliSYNC® 210 10CFM High Duty Cycle Compressor (DC or engine 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.
- Rated to provide and perform up to 500 full vehicle kneel cycles within a 24-hour period of continuous use, for 365 days a year.
- All IntelliSYNC® suspension air system lines, fittings, valves, connectors and tanks are color-coded for plug n' play operation and meet D.O.T. specifications.
- Front vehicle springs - Two (2) 5,000 (lbs.) maximum combined capacity, double convoluted air springs by Firestone® utilizing OEM brackets to mount.
- DSC LoPro™ Heavy Duty Travel Bushings (front and rear).
- IntelliSYNC® Ford E-450 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 and passenger side vehicle kneel functionality (optional).
- 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 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 (7-Year/200,000 Mile) - Vehicle chassis suspension successfully completed the STURAA test encountering no Class 1 or Class 2 failures.
- 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 suspension systems. 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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