

2005 F-650/F-750 Super Duty Chassis Cabs

Index of Key Features

What's New	2
What's Important	3
Model Lineup	4-5
Segments	6-7
Purchase Motivators	
Performance/Handling	8-13
Quality/Reliability/Durability	14-15
Flexibility	16-21
Capability	22-25
Reference	26-59
Modification Center	60-69

Index of Key Features

Air Conditioning	19	Frame Extensions	22
Audio Systems	19, 26	Huck-bolted	
AM/FM Stereo		Integral	
AM/FM Stereo/6-disc In-dash CD Player		Fuel Tanks	8, 13, 31
AM/FM Stereo/Cassette		Gross Vehicle Weight Rating (GVWR)	22, 23, 25
Premium AM/FM Stereo/Cassette/Single-disc CD Player		Headlamps	19
Axles, Front	8, 13	Instrument Panel/Cluster	21, 32
Axle Ratings		Mirrors	19
Axles, Rear	8, 13, 16	Stainless Dual Western-style	
Axle Ratings		Telescoping Trailer Towing	
Axle Ratios		Power Door Locks	19
2-speed Rear Axle		Power Point, Auxiliary	19
Single-speed Rear Axle with Locking Differential		Power Windows	16
Battery, Maintenance-free	14	Pre-delivery Inspection	14
Beltline	16	Radiator	8, 13
Braking System	14, 16, 20, 21	Safety Belts	16, 20
Four-channel Anti-lock Braking System (ABS)		Seats	17, 30
High-efficiency Hydraulic Brake System		Steering	8
Air Drum Brake System		Suspension, Front	12
Automatic Traction Control System		Parabolic Tapered-leaf	
Business Preferred Network	15	Aeon® Auxiliary Springs	
Cab Construction	14	Suspension, Rear	12
Cab Styles	14, 16, 19, 21	Vari-Rate Multi-leaf	
Low-profile, Low-height Cab		Rear Air Suspension	
Clutch, Self-adjusting	9	Tilt Steering Wheel	20
Eaton Fuller Solo 1-plate		Tilting Hood	14
Eaton Fuller Solo 2-plate		Tires	29
Commercial Truck Tools	15	Tow Hooks	14
Common Parts	15	Transmissions	8, 9
Configurations	32	Allison Automatic	
Door Trim Panels	21	Eaton Fuller Manual	
Durability Testing	14	TTC Spicer Manual	
Engine Block Heater	10	Trim Levels	4, 16, 17
Engines	8, 10, 11	Uptime-Critical Parts Program	15
6.0L Power Stroke® Turbo Diesel V-8		Vertical Exhaust	16, 21
7.2L Caterpillar® C7 Diesel		Warranties	15
5.9L Cummins® ISB Diesel		Wheelbase and Cab-to-Axle Dimensions	24, 25
Ford Extended Service Plan	15	Wheels	27, 28
Frame	5, 14, 22, 23, 33-35	Work-ready Models	16, 18
Double-channel Reinforcement		Yellow-coded Service Points	15
Body Frames			
Frame Height			
Kick-up Frame			
Frame Availability			

WHAT'S NEW

This page is about:

- Exterior Changes
- Interior Changes
- Option Changes
- Functional Changes
- Key Competitors

2005 F-650/F-750 Super Duty Chassis Cabs

What's New

The following pages will detail the many important, and some new, vehicle features found on the 2005 F-650 and F-750 Chassis Cabs.

These trucks continue to be about "choice." The F-650 and F-750 models give you the ability to provide the features your customers need to fulfill their exact requirements like no other truck supplier.

Exterior Changes

- Chrome front bumper, grille and headlamp bezels now standard on both XL and XLT trim levels (except F-750S models); Dark Shadow Grey bumper, grille and headlamp bezels standard on F-750S
- Color added:
 - School Bus Yellow

Interior Changes

- Manual air conditioning standard on all models and trim levels
- Captain's Chair with Hi-back integral head restraint, folding/reclining feature and inboard armrest is now standard driver's seat on XL trim models, replacing the intermediate back standard driver's seat

Option Changes

- The Allison Transmission Company has completely revised its product offering for 2005. The model/series numbers on all Allison transmissions have been changed to reflect the new application-specific capabilities. The Ford order codes have also been changed to more closely align with the new Allison Vocational Automatic Transmission product offerings
- Ordering an available Allison Vocational Automatic Transmission requires the selection of the proper order code for the specific application. Improper selection and application of the transmission could void the warranty

- See page 9 for Allison Transmission ordering specifics
- The Allison Vocational Automatic Transmissions are grouped into 5 different series. To select the proper vocational transmission:
 - Select the order code of the required transmission (44A-2500RDS/WR — 5 speed)
 - Select the appropriate programming code for the specific vocation (may not be required on some 2000 Series transmissions — refer to Dealer Ordering Guide or CTT for additional information)
- Refer to the Allison Transmission Programming Codes section of the Dealer Ordering Guide for additional information
- There are six available manual transmissions
 - The Fuller FSO-8406A 6-speed transmission with overdrive has been added
 - The Fuller FS-4205A 5-speed transmission has been deleted
 - Both Fuller 10-speed transmissions, FR-9201B and RT-8908LL, have been deleted

Functional Changes

- The standard transmission on F-650 Pro Loader, F-650 Straight Frame and F-750 models is now an Allison 2500 RDS/wide-ratio 5-speed automatic overdrive transmission. F-750S models come standard with an Allison 3000 RDS/close-ratio 6-speed automatic overdrive transmission
- Three new horsepower/torque combinations available with Cummins 5.9L ISB Diesel Engine

Key Competitors and How They're Positioned

- **Chevrolet/GMC Kodiak/TopKick C6500/C7500** — positioned as the most user-friendly yet rock-solid, dependable line of medium-duty trucks
- **International 4200/4300 Series** — positioned to be the best at delivering life-cycle value and customer satisfaction
- **Freightliner FL-70/FL-80** — positioned as the toughest, most agile and most comfortable truck, from the leading heavy-duty truck manufacturer

(1) For a complete list of what's new for 2005, please refer to the latest Dealer Ordering Guide.

2005 F-650/F-750 Super Duty Chassis Cabs

What's Important

WHAT'S IMPORTANT

This page is about:

Product Highlights —

Key Features —

F-650/F-750
SD Chassis Cabs

Product Highlights

HERE ARE THE MOST IMPORTANT 2005 F-650/F-750 FEATURES TO MENTION TO YOUR CUSTOMERS:

**Wide range of
powertrain choices**

(pgs. 8-11)

**Wide range of
frame choices**

(pgs. 5, 22, 23)

**Choice of three low profile,
low height cab styles**

(pgs. 14, 16, 19, 21)

**Wide array of
seating configurations**

(pg. 17)

**Available GVWRs
from 17,999 lbs.
to 33,000 lbs.**

(pgs. 5, 22, 23, 25)



**New Allison Vocational
Automatic Transmissions
available**

(pg. 9)

Use the F-650/F-750 Super Duty Chassis Cab information in this Source Book to enhance your sales presentations. Pay particular attention to those key features that address the specific needs of your customers. Refer to your Dealer Ordering Guide for specific feature availability.

Key Features

Performance/Handling

- **Choice of three diesel engines with a wide range of power ratings:**
 - 6.0L Power Stroke® Turbo Diesel V-8
 - 7.2L Caterpillar® C7 Diesel
 - 5.9L Cummins ISB Diesel
- **Choice of six manual and five automatic transmissions; new Allison Vocational Automatic Transmissions available**

Quality/Reliability/Durability

- **Choice of three low profile, low height cab styles**
- Tough frames and heavy-duty rear springs
- Glass-reinforced polymer hood helps resist dents
- Cabs share many common parts with F-Series Super Duty lineup
- Available 20-inch huck-bolted front frame extension
- Available integral front frame extension

Flexibility

- **Wide choice of seating configurations, including standard standard driver's Captain's Chair and 2-person passenger seat on XL; Hi-back split bench seat with folding low-back center section on XLT and available Easy-Aire and Full Air Ride seating section**
- Standard rear bench seat for SuperCab and Crew Cab
- Standard four-wheel Anti-lock Braking System (ABS)
- Available Automatic Traction Control system
- Two steering wheel sizes provide easy handling in tight maneuvers

Capability

- **Wide range of frame choices**
- **Available GVWRs from 17,999 lbs. to 33,000 lbs.**
- Wide range of wheelbase lengths, chassis heights and cab-to-axle (CA) dimensions

MODEL LINEUP

This page is about:

- F-650/F-750 XL
- F-650/F-750 XLT

2005 F-650/F-750 Super Duty Chassis Cabs Model Lineup

F-650/F-750 XL



PERFORMANCE/HANDLING

- 6.0L Power Stroke® V-8 engine
- Caterpillar® 7.2L C7 engine (Standard on F-750 Severe Service)
- Standard Allison Automatic Overdrive Transmission
- Painted white steel disc wheels
- Power steering

QUALITY/RELIABILITY/DURABILITY

- Two maintenance-free batteries

FLEXIBILITY

- Standard four-wheel Anti-lock Braking System (ABS)
- Air conditioning
- Auxiliary power point
- Cigar lighter
- Black vinyl floor covering
- AM/FM stereo
- Hi-back Captain's Chair with 2-person intermediate passenger seat
- Speed control
- Interval windshield wipers
- Chrome full-width front bumper
- Solar-tinted glass
- Sealed-beam halogen headlamps
- Dual stainless steel western-style mirrors
- Color-keyed safety belts
- "Work-ready" models

CAPABILITY

- Choice of standard body frames/lengths
- Choice of Gross Vehicle Weight Ratings

F-650/F-750 XLT



PERFORMANCE/HANDLING

Key features are the same as XL.

QUALITY/RELIABILITY/DURABILITY

Includes all the features of XL plus the following upgrade:

- Front tow hooks

FLEXIBILITY

Includes all the features of XL plus the following upgrades:

- Back panel storage provisions
- Power windows
- Power locks
- AM/FM stereo/cassette with clock
- Hi-back split bench

CAPABILITY

Key features are the same as XL.

2005 F-650/F-750 Super Duty Chassis Cabs

Models and Their Applications

MODELS AND THEIR APPLICATIONS

This page is about:

- F-650 Super Duty Pro Loader Kick-up Frame
- F-650 Super Duty Pro Loader Straight Frame
- F-650 Super Duty
- F-750 Super Duty
- F-750 Super Duty S

F-650/F-750
SD Chassis Cabs

F-650/F-750 Super Duty no longer has packages that force a set of options together. Instead, as an experienced truck professional, you need to help properly configure vehicles for your customers. All models (except Pro Loader) are available in either straight truck or tractor versions. Check your Ordering Guide for details on straight truck and tractor versions.

F-650 Super Duty Pro Loader Kick-up Frame

- 32.5-inch chassis height (ground to top of frame, unloaded)
- 19½-inch wheels
- Frame height and step-up are almost 3 inches lower than the Pro Loader Straight Frame Dock Height model
- Frame tapers to 6.495 inches just ahead of the rear axle
- GVWR — 17,999 lbs. minimum; 26,000 lbs. maximum
- Applications — rescue vehicles, landscape, package delivery trucks that don't use a dock and other vocations that require a low frame height

F-650 Super Duty Pro Loader Straight Frame

- 35.4-inch chassis height
- 19½-inch wheels
- Straight frame
- GVWR — 17,999 lbs. minimum; 29,000 lbs. maximum
- Applications — retriever, non-dock package delivery trucks, rescue vehicles

F-650 Super Duty

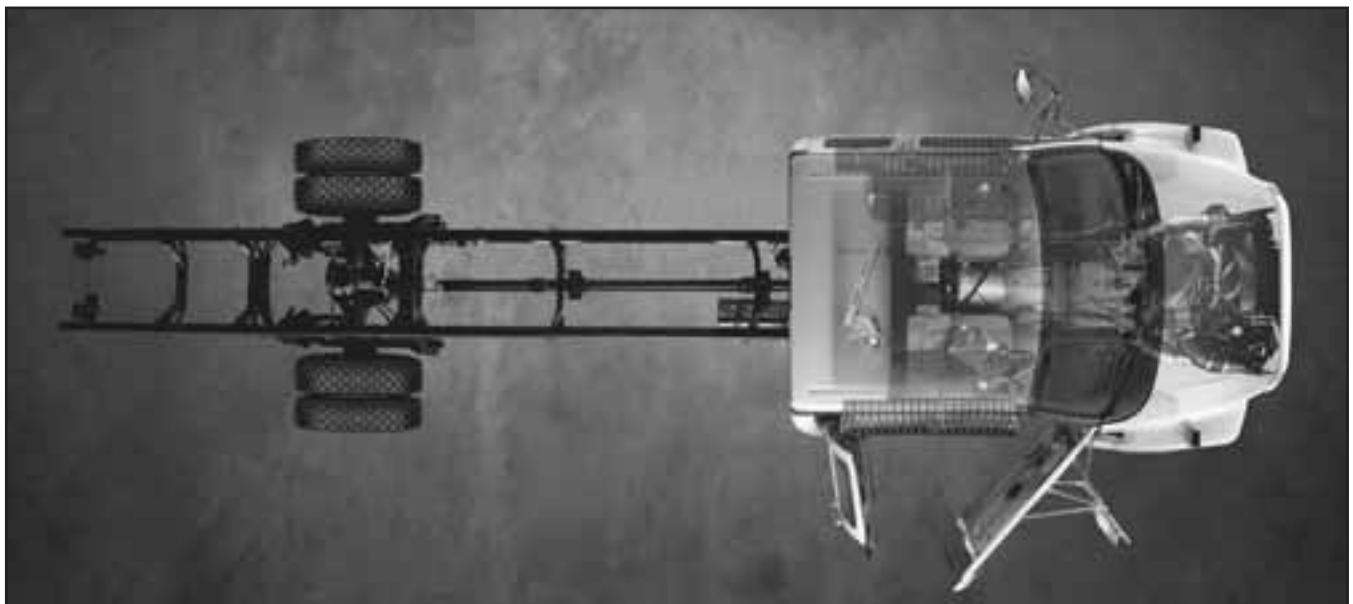
- 39.4-inch chassis height
- 22½-inch wheels
- Straight frame
- GVWR — 17,999 lbs. minimum; 29,000 lbs. maximum
- Applications — delivery trucks, small dump trucks

F-750 Super Duty

- 40.4-inch chassis height
- 22½-inch wheels
- Straight frame. Available 10.8-inch reinforced frame
- GVWR — 25,999 lbs. minimum; 33,000 lbs. maximum
- Applications — beverage and utility trucks

F-750 Super Duty S (Severe Service Applications)

- 40.4-inch chassis height
- 22½-inch wheels
- Straight frame. Available 10.8-inch reinforced frame
- GVWR — 31,000 lbs. minimum; 33,000 lbs. maximum
- Applications — county dump and plow trucks, airport de-icer



SEGMENTS

This page is about:

- Van
- Stake/Platform
- Dump

2005 F-650/F-750 Super Duty Chassis Cabs *Segments*

**F-650/F-750
Super Duty
Chassis Cabs**

Commercial

Van



Stake/Platform



Dump



2005 F-650/F-750 Super Duty Chassis Cabs

Segments

SEGMENTS

This page is about:

- Tractor
- Towing/Recovery
- Beverage

F-650/F-750
SD Chassis Cabs

F-650/F-750
Super Duty
Chassis Cabs

Commercial

Tractor



Towing/
Recovery



Beverage



PERFORMANCE/HANDLING

This page is about:

- Engines
- Power Steering
- Front Axles
- Rear Axles
- Fuel Tank Configurations
- Radiator

2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

Key Features

F-650/F-750 trucks are all about Choice, especially when it comes to vehicle performance. Never before have truck buyers been offered such a wide range of engines and horsepower and torque ratings that will get their load

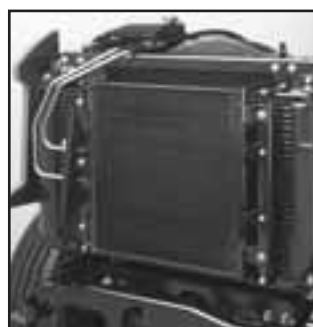
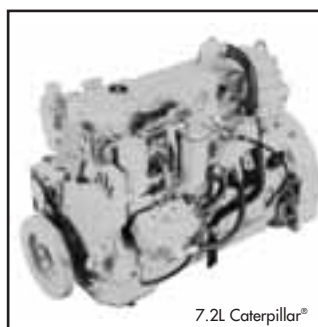
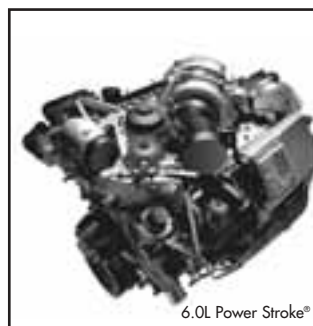
moving and keep it moving. These Super Duty Chassis Cabs offer the powertrains your commercial customers need to fit their requirements — whatever the job they have in mind.



Engines — choice of three powerful diesel engines. See pages 10 and 11 for horsepower levels

Power Steering — Ross TAS integral power steering is standard on all models

Front Axles — all F-650 models have standard 8500-lb. front axles; all F-750 models have standard 10,000-lb. front axles



Rear Axles — 13,500-lb. rating on F-650 Pro Loader Kick-up Frame models; 17,500-lb. rating on F-650 Pro Loader Straight Frame and F-650; 21,000-lb. rating on all F-750 models

Fuel Tank Configurations — Multiple single and dual fuel tank options. Up to 160-gallon capacity

Radiator — Up to 516 square inches of frontal area for excellent cooling performance

Transmissions — Choice of 6 manual and up to 27 different Vocational Automatic Transmission choices

2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

PERFORMANCE/HANDLING

This page is about:

Transmission Specifics

F-650/F-750
SD Chassis Cabs

Transmission Specifics

All F-650/F-750 trucks come with an Allison automatic transmission as standard equipment, but each model also offers an assortment of optional transmissions to choose from to satisfy varied customer needs.

Only the Rugged Duty Series (RDS), Emergency Vehicle Series (EVS) and Truck Recreational Vehicles (TRV) series transmissions include power takeoff (PTO) ports. For available engine and transmission combinations, see the Dealer Ordering Guide.

Automatic Transmissions:

- Are easier to drive since there's no gearshifting involved
- Allow drivers to keep both hands on the wheel
- Are more efficient

Standard/Available Allison Automatic Transmissions⁽¹⁾

- The Allison Transmission Company has completely revised its product offering for 2005. The model/series numbers on all Allison transmissions have been changed to reflect the new application-specific capabilities. The Ford order codes have also been changed to more closely align with the new Allison Vocational Automatic Transmission product offerings
- Ordering an available Allison Vocational Automatic Transmission requires the selection of the proper order code for the specific application. Improper selection and application of the transmission could void the warranty
- The Allison Vocational Automatic Transmissions are grouped into 5 different series. To select the proper vocational transmission:
 - Select the order code of the required transmission (44A — 2500RDS/WR — 5 speed)
 - Select the appropriate programming code for the specific vocation
- Refer to the Allison Transmission Programming Codes section of the Dealer Ordering Guide for additional information
- 2200 5-speed overdrive
- 2500 5-speed overdrive
- 3000 5-speed close-ratio overdrive
- 3000 6-speed close-ratio overdrive

- 3500 5-speed wide-ratio overdrive
- 3200 6-speed close-ratio overdrive
- 3500 6-speed wide-ratio overdrive
- B300 5-speed close-ratio overdrive
- B400 6-speed close-ratio overdrive
- The 2200 series includes a standard Park Pawl feature

Manual Transmissions:

Available Eaton Fuller Manual Transmissions⁽¹⁾

- FS-5205A 5-speed
- FS-5406A 6-speed
- FS-6406A 6-speed
- FSO-8406A 6-speed

For additional Eaton transmission information, refer to their Web site at www.roadranger.com/products/trans/trans.htm

Available TTC Spicer Manual Transmissions⁽¹⁾

- ES56-7B 7-speed
- ESO66-7B 7-speed

For additional TTC Spicer Transmission information, refer to their Web site at <http://www.ftcautomotive.com>

Clutches

A self-adjusting clutch is standard with all manual transmissions. The standard clutch is an Eaton Fuller Solo 1-plate; the optional clutch is an Eaton Fuller Solo 2-plate. Features include:

- Both clutches are adjustment-free after installation and have improved heat- and wear-resistant facing material. Self-adjusting clutches help reduce maintenance time and extend the life of the clutch
- Improved shift feel through the life of the clutch
- More consistent pedal effort than manual adjusting clutches found on most competitive models
- Decreased wear to the release bearing, bushing and linkage
- A wear indicator tab gives a visual reference for the amount of wear and the remaining clutch life
- Maintenance-free, sealed, premium lubed-for-life release bearing
- The two-plate clutch is standard when engine torque requires it
- The two-plate clutch is optional on lower torque engines

Allison Automatic Transmission Specifics

When ordering the correct Allison Vocational Automatic Transmission for your customer, you must pay attention to selecting the correct model/series number for the application. Allison automatic transmissions are grouped into 5 different series, depending on the application, and not all series offer a PTO provision. The following chart will help you choose the right transmission for your customer's application.

Transmission	PTO Provision?	Transmission	PTO Provision?
RDS (Rugged Duty Series) • 2500RDS/WR 5-speed • 2200RDS/CR 5-speed • 3000RDS/CR 5-speed • 3000RDS/CR 6-speed • 3500RDS/WR 5-speed • 3500RDS/WR 6-speed	Yes	TRV (Truck Recreational Vehicle) • 3200TRV/CR 6-speed	Yes
HS (Highway Series) • 2500HS/WR 5-speed • 2200HS/CR 5-speed • 3000HS/CR 5-speed • 3000HS/CR 6-speed	No	MHS (Motorhome Series) • 2500MH/WR 5-speed • 2200MH/CR 5-speed • 3000MH/CR 5-speed • 3000MH/CR 6-speed	No
EVS (Emergency Vehicle Series) • 2500EVS/WR 5-speed • 2200EVS/CR 5-speed • 3000EVS/CR 5-speed • 3000EVS/CR 6-speed • 3500EVS/WR 5-speed • 3500EVS/WR 6-speed	Yes	PTS (Pupil Transportation/Shuttle) • 2500PTS/WR 5-speed • 2200PTS/CR 5-speed • 3000PTS/CR 5-speed • 3000PTS/CR 6-speed	No
		BUS (Bus Series) • B300/CR 5-speed • B400/CR 5-speed	No

PERFORMANCE/HANDLING

This page is about:

— Engine Specifics

2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

Engine Specifics

6.0L Power Stroke® Turbo Diesel V-8 Engine

Available transmissions:

- 5-speed automatic
- 5-speed, 6-speed or 7-speed manual

Features:

- Unique horsepower and torque ratings for the F-650/F-750 Super Duty
- Outstanding engine performance because of its efficient engine design, fuel system and turbocharger
 - The engine is a direct injection 32-valve diesel with an all-new cast-iron block and cylinder heads. The engine has a single, block-mounted camshaft in a compact overhead valve (OHV) design, with hydraulic valve lash adjustment
 - The hydraulic rail fuel injection system uses high injection pressure to quickly atomize fuel as it's released into the combustion chamber, for clean and efficient combustion
 - The fuel system uses pilot injection, which delivers a small amount of fuel into the combustion chamber prior to main injection for smoother, quieter operation and improved starting in cold weather
 - New Electronic Variable Response Turbocharger (EVRT)[™] allows the position of the turbine blades on the turbocharger to change based on demand
 - Advantages of EVRT include: Aggressive low-end torque, reduced turbocharger lag, improved operation at altitude and efficient operation throughout the engine's operating range

- Lower emissions because of exhaust gas recirculation — or Cooled EGR — technology
 - A portion of the exhaust gas is rerouted through a cooler, and then the cooled exhaust gas is reintroduced into the fresh air charge
 - This helps reduce the flame temperature during combustion, thus helping to reduce emissions
- Low cost of ownership: excellent fuel economy
- Better serviceability
 - New cartridge oil filter is easier to remove and helps keep oil from spilling. The cartridge design helps reduce disposal costs, since there is no metal canister to dispose of
 - The glow plugs are outside the valve cover, making them easier to service
 - The water pump can be removed without removing the drive belts
 - The gaskets are made from improved materials to last longer
 - Better heat control helps extend engine life
- Reduced noise, vibration and harshness (NVH) and lighter weight
 - Timing gears are now at the rear of the engine for less noise and decreased torsional vibration
 - Fuel system is quieter because it is more precisely controlled
 - Better oil pan construction helps lower crankcase noise
- New industry standard engine electronics
- Programmable engine functions at the dealership



6.0L Power Stroke®

Horsepower @ rpm	Torque @	Governed Speed
200 @ 2600	520 lb.-ft. @ 1500	2800 rpm
215 @ 2600	540 lb.-ft. @ 1500	2800 rpm
230 @ 2600	540 lb.-ft. @ 1500	2800 rpm
230 @ 2600	620 lb.-ft. @ 1500	2800 rpm

Engine Block Heater

- Available as an option on all Power Stroke®, Caterpillar® and Cummins® engines
- Helps maintain engine-start temperature for quick and easy cold-weather starts

2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

PERFORMANCE/HANDLING

This page is about:

Engine Specifics cont'd

F-650/F-750
SD Chassis Cabs

Engine Specifics cont'd

7.2L Caterpillar® C7 Diesel Engines

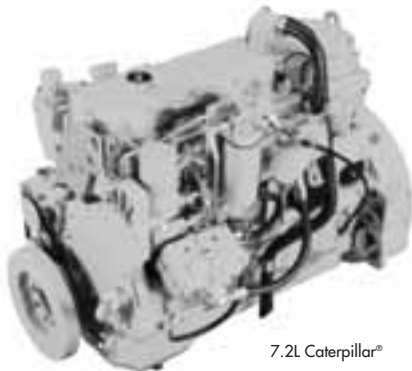
- Incorporates ACERT (Advanced Combustion Emission Reduction Technology) to reduce nitrogen oxide emissions
- Moved engine on center, allowing a normal PTO fit
- Front End Accessory Drive (FEAD) will accommodate 270-amp alternator
- Unique Severe Service version (210 to 250 hp)

Available transmissions:

- 5-speed and 6-speed close-ratio automatic
- 6-speed wide-ratio automatic
- 6-speed and 7-speed manual

For additional Caterpillar information, call 1-800-447-4986, or refer to their Web site at www.caterpillar.com

Horsepower @ rpm	Torque @ rpm	Governed Speed
190 @ 2300	520 lb.-ft. @ 1440	2500 rpm
210 @ 2200	520 lb.-ft. @ 1440	2500 rpm
210 @ 2200	605 lb.-ft. @ 1440	2500 rpm
230 @ 2400	540 lb.-ft. @ 1440	2500 rpm
230 @ 2200	660 lb.-ft. @ 1440	2400 rpm
250 @ 2400	660 lb.-ft. @ 1440	2400 rpm
275 @ 2200	800 lb.-ft. @ 1440	2400 rpm
300 @ 2200	800 lb.-ft. @ 1440	2400 rpm
300 @ 2200	860 lb.-ft. @ 1440	2400 rpm



7.2L Caterpillar®

5.9L Cummins® ISB Diesel Engines with EGR

- Three new horsepower and torque ratings available
- Improved emissions: reduced nitrogen oxides
- Decreased NVH
 - Driven accessories at back of engine
- Variable Geometry Turbo (VGT)
- High pressure common rail fuel system
- Good fuel economy
- 24-valve-centered injection minimizes overspray, resulting in longer service intervals
- Good cold engine startability
- Not available in GM/Freightliner trucks
- For additional information on the Cummins ISB diesel engine, call 1-800-DIESELS or refer to their Web site at www.cummins.com/na/pages/en/products/trucks/isb.cfm

Available transmissions:

- 5-speed, 6-speed automatic
- 5-speed, 6-speed with overdrive or 7-speed manual

Horsepower @ rpm	Torque @ rpm	Governed Speed
185 @ 2400	420 lb.-ft. @ 1600	2600 rpm
200 @ 2300	520 lb.-ft. @ 1500	2500 rpm
215 @ 2300	520 lb.-ft. @ 1600	2500 rpm
230 @ 2400	520 lb.-ft. @ 1600	2500 rpm
245 @ 2300	660 lb.-ft. @ 1600	2500 rpm
260 @ 2500	550 lb.-ft. @ 1900	2600 rpm
260 @ 2300	660 lb.-ft. @ 1600	2500 rpm
275 @ 2500 ⁽¹⁾	660 lb.-ft. @ 1600	2600 rpm

(1) Manual transmission only.



5.9L Cummins®

PERFORMANCE/HANDLING

This page is about:

— Suspension Specifics

2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

Suspension Specifics

Front Suspensions

- **Parabolic tapered-leaf front suspension** — Helps provide an excellent balance of ride and handling, as well as the ability to handle the most demanding applications
- **Aeon® auxiliary springs** — Recommended only for applications requiring additional front roll stiffness, such as: constantly loaded bucket trucks, digger derricks, refrigerated vans and liquid load tank trucks. The auxiliary springs provide additional stiffness without having to order higher-rated springs



These suspensions may also include an integral progressive-rate Aeon® auxiliary spring.

- Under lightly loaded conditions, the auxiliary spring contributes gradually to the spring rate, preventing a noticeable decrease in ride quality
- Under heavily loaded conditions, the auxiliary spring progressively increases the spring rate and contributes to overall vehicle roll stiffness
- When the vehicle is empty, the auxiliary spring may be in constant contact. However this is consistent with the suspension's design and will not decrease ride quality
- The rear rubber auxiliary spring should not be relocated or removed

Rear Suspensions

F-650/F-750 offers five multi-leaf and five air suspensions. Multi-leaf suspensions range from 13,500 lbs. to 23,500 lbs. Air suspensions range from 12,000 lbs. to 23,000 lbs.

Vari-Rate Multi-Leaf Rear Suspension

This suspension features a variable deflection rate. As the spring bends under an increased load, the point where the spring contacts a cam-type spring bracket moves toward the center of the spring. This shortens the effective length of the spring, making it stiffer as the load increases.



Rear Air Suspension

Air spring suspensions are valued for their smooth ride quality, lightweight design and reduced NVH. They also allow the driver to decrease height for loading and unloading. And the air suspension is available with or without air brakes. They're a strong "why-buy" for carriers of beverages, electronic equipment and other fragile cargo. Other rear air suspension benefits include:

- Rubber bushings at all moving component interfaces to dampen noise and vibration
- High lateral stiffness bushings for excellent handling
- Roll stiffness for control in turns and crosswinds
- Design helps minimize the number of components to wear or require service
- Optimized height-control valve helps provide a more constant suspension ride height
- Exclusive spring bushing design helps extend bushing life and improve durability



2005 F-650/F-750 Super Duty Chassis Cabs

Performance/Handling

PERFORMANCE/HANDLING

This page is about:

Axle Rating Specifics

Radiator

Fuel Delivery

F-650/F-750
SD Chassis Cabs

Axle Rating Specifics

The standard and optional axles found on F-650 and F-750 are also important components in the powertrain story. During your sales presentation, be sure you get enough information from your customers about their needs so that you can match the rear axle ratio to your customer's specific application. Higher numerical value ratios get the load moving at low speeds. Lower numerical value ratios provide higher top speeds while keeping engine rpm low. Advising your customers about the most appropriate axle ratio for their particular job will help ensure satisfaction with their purchase.

Front Axles

Model	Front Axle Rating
F-650 Pro Loader Kick-up	8500-lb. std.
F-650 Pro Loader Straight Frame	8500-lb. std. 10,000-lb. opt.
F-650	8500-lb. std. 10,000-lb. opt.
F-750, F-750S	10,000-lb. std. 12,000-lb. opt. 13,200-lb. opt.

Rear Axles

- Standard 13,500-lb. rating for F-650 Pro Loader Kick-up
- Standard 17,500-lb. rating for F-650 Pro Loader Straight Frame and F-650
- Standard 21,000-lb. rating for both F-750 and F-750S models
- An optional 23,000-lb. rear axle rating is available on F-750 and F-750S models

All rear axles are full-floating design.

Rear Axle Ratios for F-650/F-750 Super Duty Chassis Cab Models

- Ratios range from 3.07:1 to 7.17:1
- Low axle ratios provide a higher top speed, better fuel economy and excellent overall performance on the highway. They're designed for trucks that log a lot of miles on the open road, such as delivery vehicles. Check the Dealer Ordering Guide for availability

Optional 2-speed Rear Axles

These provide additional gears when needed for starting and pulling power from the axle's low range and they provide added economy and maximum road speed from the axle's high range.

Two-speed rear axles are available in 17,500-lb., 19,000-lb., 21,000-lb. and 23,000-lb. capacities.

Single-speed Rear Axle with Driver Control Locking Differential

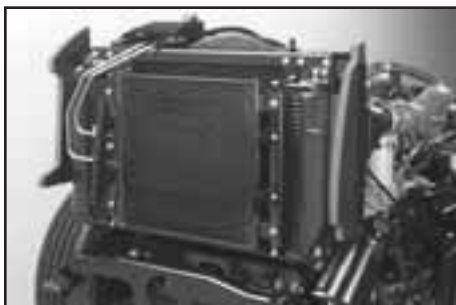
The locking differential allows the driver to lock the rear wheels together to enhance vehicle traction. At the flip of a switch, the air-activated clutch positively locks the differential gearing in the drive axle. Power then flows to the tires without any differential action, giving each wheel all the torque the road conditions will permit.

This feature is available on F-750 Super Duty Chassis Cab models.

More Performance/Handling Specifics

Radiator

- The F-650/F-750 Super Duty's radiator has up to 516 square inches of frontal area and 67 tube rows for excellent cooling performance
- Each row has one tube that is braze-jointed at the center for strength. This forms two flow passages per tube, or 134 flow passages for the entire core



Fuel Delivery

- The standard fuel tank on most F-650/F-750 Super Duty models is a 45-gallon single right-hand rectangular 13-inch-deep steel tank. Pro Loader models come standard with a 35-gallon tank
- F-650/F-750 Super Duty vehicles offer various fuel tank configurations to fit differing customer requirements. Dual tanks and other tank combinations provide fuel capacities ranging up to 160 gallons for longer distances between fill-ups
 - In all tanks, fuel is drawn from the top of the fuel tank. This avoids contaminants on the bottom of the tank that could interfere with engine performance
 - Dual fuel tanks use a transfer pump for equalization

QUALITY/RELIABILITY/DURABILITY

This page is about:

- Frame Reinforcement
- Durability Testing
- Maintenance-free Battery
- Four-channel Anti-lock Braking System (ABS)
- Tow Hooks
- Welded Cab Construction

2005 F-650/F-750 Super Duty Chassis Cabs

Quality/Reliability/Durability

Key Features

Ford F-650/F-750 Super Duty Chassis Cabs are backed by more than 50 years of commercial truck experience. That kind of experience has helped build a reputation for quality and reliability in the marketplace — one that Super Duty buyers have come to rely on. This is particularly important to your commercial customers. For them, vehicle downtime is more than just an inconvenience — it's a loss of income. The words

"Built Ford Tough" sum up the powerful brand image of the Ford truck family, and the F-650/F-750 Super Duty is no exception to that promise. It's run through a multitude of bone-jarring durability tests to make sure that it can handle the toughest conditions, day in and day out. This is one rugged, practical and capable machine — characteristics that suit your customers as well.

Double-channel Frame Reinforcement — available on F-750 and F-750S (except the 230-inch-wheelbase Regular Cab) to limit frame flex for operators of booms and cranes by placing a second C-section rail around the standard rail

Durability Testing — simulates 150,000 real-life miles to help ensure durability and reliability of all components

Maintenance-free Battery
— reduces long-term maintenance costs

Four-channel Anti-lock Braking System (ABS) — F-650/F-750 trucks come with standard four-channel ABS system. This means all four wheels work independently to maintain steering control.

Tow Hooks — attached to the front frame for strength (standard on XLT)



Standard Tilting Hood — allows for easier servicing of the engine area

Welded Cab Construction — contributes to strength and durability

3 Cab Styles — with reinforced cab construction elements that make it TOUGH! Designed for easy ingress and egress and "user-friendliness"

Pre-delivery Inspection (PDI) — factory-performed pre-delivery inspection is available on all F-650/F-750 trucks with Order Code 21P. This option must be selected at time of order placement

Cab Construction

Ford engineers, armed with over 20 years of medium-duty cab field data, designed the F-650/F-750 cabs to be superior to the previous generation medium-duty F-800 cab. Although similar in appearance to the cabs found on other F-Series

Super Duty models, the construction of the F-650/F-750 cabs is unique. These reinforced medium-duty cabs employ additional welds, distinctive rear cab mounting system, hood and hood mounting system.

This cab design has successfully completed the rigorous durability testing which represents medium-duty cycle and usage.

2005 F-650/F-750 Super Duty Chassis Cabs

Quality/Reliability/Durability

QUALITY/RELIABILITY/DURABILITY

This page is about:

Features and Benefits

Commercial Specifics

**F-650/F-750
SD Chassis Cabs**

Additional Features

Feature	Benefit
Yellow-coded Service Points	Enable technicians to readily identify key components during routine maintenance; allow service to be accomplished quickly and efficiently
Availability of Common Parts throughout F-Series SD Lineup	Decreased part inventories and stocking costs; time and money savings for customers

Commercial Specifics

A Smart Commercial Investment

Your commercial customers can rest assured that they are making a smart purchase because of the following features:

- Ford Extended Service Plan (Ford ESP) and Fleet Service Plan (FSP) coverage is available for almost every customer need and budget. If your customers' business requires extensive and widespread travel, they can be reassured knowing the 50-state, Canada and Mexico network of dealers is there to serve them
- When commercial customers choose an F-650 or F-750 Super Duty Chassis Cab, they also get thousands of qualified service technicians who can be reached beyond the standard 9-to-5 business day
- The Ford Motor Company Business Preferred Network (BPN) is a cohesive and comprehensive approach to the commercial/fleet sales, parts and service and financial services business
 - BPN integrates existing commercial/fleet business activities such as Quality Fleet Care, QualityCare Maintenance (QCM), Around the Wheel (AtW), CommercialLeasePlus, etc.
- The Uptime-Critical Parts Program allows dealers to order selected uptime-critical parts for delivery 365 days per year
 - The Uptime-Critical Parts Program can ONLY be used to support critical commercial truck needs outside of "normal" FCSD order-processing business hours as follows:
 - Monday through Sunday — from the customer's facing depot's local emergency cutoff time until midnight ET. The only exception to this is heavyweight parts (150+ lbs.) where the order cutoff time will be 11 p.m. ET and delivery is second day by 4:30 p.m. local time. This is to allow extra handling time required for such parts
 - Vehicle Down orders will ONLY be taken beyond normal Ford Customer Service Division (FCSD) emergency order-processing hours. Customers will still be required to submit their normal daily and emergency requirements through the normal FCSD channels
 - Parts under 150 lbs. are delivered between 8:00 a.m. and 10:30 a.m. (including Saturday and Sunday) if ordered between 3:00 p.m. and midnight ET

- Parts over 150 lbs. are delivered the second day between 10:30 a.m. and 4:30 p.m. when ordered between 3:00 p.m. and 11:00 p.m. ET the preceding day
- Included are critical parts that cause downtime or make a vehicle inoperable including vehicle down parts, safety issue parts, light, exterior mirrors and DSO parts
- Parts not available include hazardous materials, body and trim, glass, yard storage parts and parts for vehicle models before 1990
- Orders may be placed by calling the Customer Service Commercial Truck Center at 800-782-5050

Commercial Truck Tools

This is the best source for ordering, spec'ing and performance information for F-650/F-750. (It does not include information on "Work-ready" models.)

To obtain more information about Commercial Truck Tools, or to get technical support, call this toll-free number: 1-877-260-2428 or e-mail support@ctt.com.

Vehicle and Engine Warranties

The New Truck Limited Warranty on 2005 F-650/F-750 models provides three kinds of coverage:

- Basic Coverage — 2 years, unlimited miles
- Corrosion Coverage — 3 years, unlimited miles
- Frame Coverage — 5 years, unlimited miles

Certain components of the 6.0L Power Stroke® Turbo Diesel V-8 Engine are covered against defects in factory-supplied materials or workmanship for 5 years or 100,000 miles.

The following F-650/F-750 components are warranted by their manufacturers and not by Ford Motor Company or Ford Motor Vehicle Assurance Company:

- Caterpillar® and Cummins® diesel engines
- Allison transmissions
- Tires
- Non-Ford components

Refer to the Appendices Book (in the back of the 2005 Truck Source Book under the Warranty tab) for detailed information about F-650/F-750 Super Duty Chassis Cab coverage.

FLEXIBILITY

This page is about:

— Key Features

2005 F-650/F-750 Super Duty Chassis Cabs Flexibility

Key Features

Now, more than ever, commercial truck buyers choose F-650/F-750 Super Duty Chassis Cabs for their flexibility. This truck lineup offers features that adapt to any line of work your customers are in. With broadened choices in seat trims, axles, exhaust systems and braking systems (to name a few), Super Duty Chassis Cabs successfully take on the challenges of different jobs and different drivers.

F-650/F-750 Super Duty Chassis Cab models are:

- F-650 Pro Loader Kick-up Frame
- F-650 Pro Loader Straight Frame
- F-650
- F-750
- F-750 S (Severe Service Applications)

NOTE: All F-650/F-750 models (except Pro Loader models) will be available as either a straight truck or a tractor (the power unit of a tractor-trailer combination). Pro Loader models are not available as tractors.

Feature Upgrades Create Choice

F-650/F-750 Super Duty Chassis Cabs offer customers more features and combinations of features than ever before. Recent enhancements make these trucks the best choice for satisfying individual and specific vocational needs.

F-650/F-750 provides you with more choices in:

- Paint
- Tires and Wheels
- Rear Axles
- Fuel Tanks
- Wheelbases and Cab-to-Axle dimensions
- Batteries
- Engines
- Transmissions
- Seats
- Alternators

Three Cab Styles — Regular Cab, 4-door SuperCab and Crew Cab offer broadest range of cab styles in the industry

Two Trim Levels — XL and XLT trim levels offer comfort for driver and passengers

Power Windows — One-Touch-Down feature delivers an unexpected level of convenience (XLT only)

Lower Side Window Beltline — helps improve road visibility on the vehicle's sides

Right-hand Vertical Exhaust — helps keep fumes away from workers at ground level through a horizontal muffler and vertical pipes

Low Cab Style — provides easier access; is more user-friendly

Four-channel Anti-lock Braking System (ABS) — helps eliminate wheel lockup

3-point Lap/Shoulder Safety Belts — provide driver and front outboard passenger protection in the event of a collision



“Work-ready” Models — provide an efficient, simplified system for spec'ing and ordering commercial trucks for specific vocational requirements

Available 2-speed Rear Axle — gives the driver more gearing options for driving over various grades, especially for starting and pulling power from the axle's low range and improved economy and maximum road speed from the axle's high range

2005 F-650/F-750 Super Duty Chassis Cabs

Flexibility

FLEXIBILITY

This page is about:

Seating Specifics
Trim Level Specifics

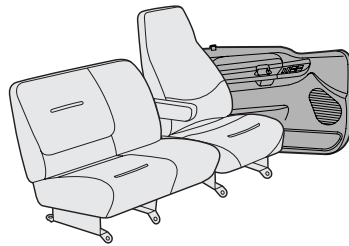
F-650/F-750
SD Chassis Cabs

Seating Specifics

A Closer Look at Seat Comfort

Truck drivers, especially your commercial customers, spend a lot of time in their trucks, so seat comfort is extremely important. That's why F-650/F-750 offers some very comfortable choices.

The available Hi-back Easy-Aire driver's seat incorporates an air-activated suspension system to help cushion the jolts and bounces of the truck cab, which can make a hard day on the road a lot easier. The seat is available on F-650/F-750 XLT models.



NOTE: Please refer to the 2005 Color and Upholstery Book or the Specifications section of **eSourceBook** (esourcebook.dealerconnection.com) for illustrations of the available seating choices.

Seating Configurations

Seats and materials with improved durability broaden vocational ability and help ensure that drivers and passengers are comfortable for the long haul. The standard and available configurations are:

- 40/70 Captain's Chair front seat (standard on XL)
- 40/20/40 Split bench front seat (standard on XLT)
- 40/0/40 Captain's Chairs — driver and passenger
- 30/70 Easy-Aire driver and 2-person passenger front bench seat
- 30/0/40 Easy-Aire driver and non-suspension passenger Captain's Chair
- 30/70 Air Ride Driver and 2-person passenger bench front seat
- 30/0/40 Air Ride Driver and non-suspension passenger Captain's Chair
- 30/0/30 Air Ride Driver and Air Ride Passenger seats
- Passenger seat delete
- Rear seat delete (SuperCab and Crew Cab)

Trim Level Specifics

XL trim level features include:

- Molded cloth headliner
- 2 coat hooks
- Driver's Captain's Chair with 2-person intermediate back passenger seats
- Cloth sun visors with passenger-side mirror
- Manual air conditioning
- Door trim panels with reflector
- Chromed plastic grille
- Chromed front bumper

XLT trim level features include:

- Hi-back driver and passenger seats
- Hanging bin with hooks
- Molded door trim panels with lower map pocket
- Power windows and door locks
- AM/FM stereo/cassette
- Front tow hooks

Leather trim package:

- Available with XLT trim only
- Dual Captain's Chairs with leather seating surfaces
- Front floor mats
- Carpeted floor covering
- Front center console

FLEXIBILITY

This page is about:

— “Work-ready” Model Selection

2005 F-650/F-750 Super Duty Chassis Cabs *Flexibility*

“Work-ready” Model Specifics

“Work-ready” models help provide Sales Consultants with an efficient, simplified system for spec’ing and ordering commercial trucks for specific vocational requirements. They are easier to sell because they are pre-spec’ed. They come in a variety of wheelbase lengths to support bodies from 8 feet to 24 feet. All “work-ready” models are equipped with:

- 6.0L Power Stroke® turbo diesel V-8 engine
- Eaton FS-5406A manual transmission
- Optional Allison 2500 automatic transmission
- 26,000-lb. GVWR

“Work-ready” Model Selection

Work-ready Number/ Sales Code	Application	Cab	Trim	WB/CA (in.)
F-650-1/610A	Dump Van/Stake Van/Stake	Regular	XL	158/84 230/156 260/186
F-650-2/612A	Dump Van/Stake Van/Stake	Regular	XLT	158/84 230/156 260/186
F-650-3/614A	Dump Van/Stake Van/Stake	SuperCab	XL	179/84 215/120 263/168
F-650-4/616A	Dump Van/Stake Van/Stake	SuperCab	XLT	179/84 215/120 263/168
F-650-5/618A	Dump Van/Stake Van/Stake	Crew Cab	XL	194/84 230/120 266/156
F-650-6/619A	Dump Van/Stake Van/Stake	Crew Cab	XLT	194/84 230/120 266/156

2005 F-650/F-750 Super Duty Chassis Cabs

Flexibility

FLEXIBILITY

This page is about:

- Low Profile/Low Height Cab
- Features and Benefits
- Heating
- Air Conditioning

Application Tip: Low Profile/Low Height Cab



- Wide-opening doors for easy entry and exit from the cab
- A roomy cab for driver comfort. For example, the engine does not intrude as in some competitive models
- Structural cab upgrades as compared to F-250 through F-550 for medium-duty durability
- Lower cab height for easier over-the-cab upfits. This also results in a lower center of gravity, another competitive advantage
- Even including the exterior mirrors, the cab is narrower than the competition, for outstanding maneuverability in tight spaces

Additional Features

Feature	Benefit
Dual-beam Sealed Halogen Headlamps	Use standard, off-the-shelf components for easily available, low-cost replacements
Power Door Locks	Allow driver to easily lock and unlock both doors from the driver's seat
Stainless Dual Western-style Mirrors	Auxiliary 8-inch convex add-on provides excellent rear visibility with wide loads
Telescoping Trailer Towing Mirrors	Mirror folds forward or backward for driving in narrow spaces; allows greater flexibility in moving the mirrors out of the way
Auxiliary Power Point	Convenient extra outlet for a cellular phone, computer, power converter or other electronic devices
Audio Systems	Several available systems provide outstanding capability to enhance the driving experience

Climate Control Specifics

Heating/Air Conditioning

- Standard manual air conditioning provides high-efficiency cooling for comfort in hot weather. The system uses R-134a refrigerant, which will not further deplete the earth's ozone layer because it does not contain chlorine. A variety of comfort settings are available with a total of eight modes: Max A/C, A/C, Panel, Off, Panel/Floor, Floor, Defrost/Floor and Defrost
- A manually operated heater/defroster is standard on all models, and has an assortment of comfort settings and modes

LEARNING PATH

To learn more about:	You will find more info here:
Ford Safety Features	2005 Appendices Book (in the back of the 2005 Truck Source Book) under the Safety tab

FLEXIBILITY

This page is about:

- High-efficiency Hydraulic Brake System
- Air Drum Brake System
- Automatic Traction Control System (ATC)
- Tilt Steering Wheel
- 3-point Lap/Shoulder Safety Belts

2005 F-650/F-750 Super Duty Chassis Cabs *Flexibility*

Braking System Specifics



Air Drum Brake System

- Standard on F-750S models; optional on others
- Meritor cam-type air drum brake system with a Bendix 13.2 cfm air compressor
- 115 square inches of stopping power at front wheel; 220 square inches at rear wheel
- Includes automatic slack adjusters, dust shields and Maxi-Brake-type, driveline-mounted parking brake
- Air brake package increases body installation flexibility

Both the hydraulic and the air drum brake systems incorporate a standard four-wheel, four-channel ABS, designed to eliminate wheel lockup in many severe braking situations under a variety of weather conditions.

Automatic Traction Control System (ATC)

This system is integrated into the F-650/F-750 Anti-lock Braking System and is available on all models except those equipped with the 6.0L Power Stroke® engine.

How the system works:

- Wheel sensors detect wheel slippage
- The ABS Controller reduces engine power and/or selectively applies rear brakes to transfer power from the slipping wheel to the opposite wheel to enable the vehicle to gain momentum and move to road surfaces providing more traction
- If wheel spin is detected at speeds above 25 mph, the engine's electronic control module reduces engine rpm to a level suitable for the available traction. The system never applies vehicle brakes at speeds above 25 mph

High-efficiency Hydraulic Brake System

- Standard on all F-650 models and F-750 models
- Four-wheel all-disc brake system provides efficient stopping power
- A split system, four-wheel, four-channel Anti-lock Braking System (ABS) and driveline parking brake are included

Additional Flexibility Specifics

Tilt Steering Wheel

- Tilting feature is standard on all models
- Allows the driver to adjust the steering wheel position for optimum comfort
- Allows the vehicle to adapt to a number of different drivers
- The steering wheel is 15.5 inches in diameter on all F-650 models with 8500-lb. front axle
- The wheel is 17.5 inches in diameter on all F-750 models, providing easy maneuverability

3-point Lap/Shoulder Safety Belts

- Color-keyed and located at driver's and all outboard passengers' positions for occupant protection in the event of a collision
- Height-adjustable D-rings are employed for front outboard seating positions on SuperCab and Crew Cab models for more comfortable safety belt positioning
- Have your customer sit in the vehicle, press the button above the safety belt anchor and move the anchor up or down until the shoulder belt is in a comfortable position. The belt should cross the occupant's body midway between the neck and shoulder

2005 F-650/F-750 Super Duty Chassis Cabs

Flexibility

FLEXIBILITY

This page is about:

- Anti-lock Braking System (ABS) —
- Features and Benefits —
- Vertical Exhaust —

Application Tips: Anti-lock Braking System (ABS)

All F-650/F-750 Super Duty Chassis Cab models are equipped with a standard four-wheel, four-channel Anti-lock Braking System (ABS). Four-wheel ABS helps provide added steering control in hard-braking situations, even on wet or slippery surfaces, under most driving conditions. When impending wheel lockup is detected, the system automatically “pumps” the brakes on the locking wheel(s), helping to provide straighter stops and greater steering control.

Share the following tips with your customers:

- Customers who have never driven a vehicle with ABS may feel that the system “takes control” of the vehicle
- Assure them that ABS can pump the brakes much faster than even the most experienced driver can
- ABS is designed to give them more control rather than less, because it helps them maintain steering control
- Remind your customers that ABS does not necessarily shorten stopping distances, but is designed to help the driver maintain steering control during hard-braking situations
- An F-650/F-750 that is pulling a trailer or hauling a heavy load will take longer to stop when compared to an unloaded vehicle, even when equipped with ABS
- Tell your customers to allow for extra stopping distance if they are hauling a heavy load

Additional Features

Feature	Benefit
Similar Cabs and Instrument Panels	Simpler parts availability and serviceability can mean less downtime and money saved
High Cab Mount and Sloping Hood	Aid visibility — because the cab sits higher and the hood provides a better view of the road ahead
Integrated Seamless Hood and Fender Assembly	Improves aerodynamics and fuel efficiency; fiberglass-reinforced polymer resists minor dents and scratches; forward-tilting hood provides easy access to engine area
Door Trim Panels	Color-keyed and molded with the armrest handle and reflector for improved nighttime visibility; built-in armrests improve driver comfort
Color-keyed Instrument Panel	Four integrated air registers, glove compartment, ashtray and cigar lighter

A Closer Look: Vertical Exhaust

- A right-hand vertical exhaust provides an alternative to the standard horizontal muffler and exhaust pipe system
- The vertical exhaust allows exhaust gases to exit out of the pipe above the cab roof, as opposed to exiting on the ground below the truck frame
- This helps keep the fumes away from workers at ground level, which is particularly critical for such jobs as construction, road work or food delivery
- The muffler remains in a horizontal position below the frame
- The vertical exhaust pipe runs up the rear corner of the cab, where it should not interfere with the installation of special bodies



CAPABILITY

This page is about:

- GVWR
- Frames
- Frame Height
- Kick-up Frame
- Frame Extensions

2005 F-650/F-750 Super Duty Chassis Cabs Capability

Key Features

Commercial truck capability is all about getting the job done. No matter what the job is, F-650/F-750 Super Duty Chassis Cabs have the capability. Excellent GVWR, payload, wheelbases and build combinations make F-650/F-750 Chassis Cabs the best choice for your commercial customers.

Gross Vehicle Weight Ratings — Each F-650/F-750 model has a recommended GVWR range (see chart on page 25). Selection of components (springs, wheels, axles, tires) determines the vehicle's GVWR

- Models are not GVWR rated. Selection of a variety of components such as springs, wheels, axles and tires determines GVWR of truck



Frames

F-650/F-750 now offers one of the strongest frames in the segment, with yield strength of 120,000 pounds per square inch, a 29.84-inch section modulus and a resisting bending moment (RBM) of 3,580,000. This is essentially a Class 8 frame — available on the F-750 model. Frames include a new chassis-black-only paint that is more durable and less subject to surface rust. All non-serviceable pieces of the frame are huck-bolted on for enhanced durability and reliability.

- 9-inch
 - Kick-up
 - Straight
- 10-inch straight
 - Several choices
- 10-inch straight with full C-section reinforcement

Frame Height

- The exact frame height is determined by many factors (model, springs, tires, etc.)
- Check your body builders guide at www.fleet.ford.com to ensure you understand the "frame height" implications of the feature you select

Kick-up Frame

Available on the F-650 Super Duty Pro Loader, the rear kick-up, when combined with the 19.5-inch wheels, lowers the frame height and step-up by 3 inches compared to an F-650 Pro Loader Straight Frame. The ground-to-top-of-frame height is 32.5 inches. This accommodates vocations that require lower ground-to-top-of-frame height such as wreckers and package delivery trucks that don't use a dock. This is accomplished by tapering the frame to 6.495 inches just ahead of the rear axle.

Frame Extensions

Frame extension choices are also expanded for 2004. They include:

- **Huck-bolted frame extensions** – Huck bolts will not loosen, yet they can be removed if the front-end extension is no longer needed. Customers who need this flexibility will prefer the bolt-on frame extension
- **Integral frame extension** — The integral frame extension is optional on F-750S. This choice will give you an edge when the written specs for a bid require an integral extension. It also allows for applications that require front PTO access

LEARNING PATH

To learn more about:	You will find more info here:
Payload	Body Applications Guide

For more Body Application information, please refer to the 2005 Body Applications Guide located in the pocket of the 2005 Truck Source Book or go to: www.fleet.ford.com

2005 F-650/F-750 Super Duty Chassis Cabs Capability

CAPABILITY

This page is about:

Body Frame Specifics

F-650/F-750
SD Chassis Cabs

Body Frame Specifics

F-650 Pro Loader Kick-up Frame Availability

Frame Codes	Cab	Wheelbase (in.)	GVWR (lbs.) ⁽¹⁾
537	Regular	134, 158, 182, 194, 218, 242	17,999 – 26,000
537	SuperCab	155, 179, 203, 239	17,999 – 26,000
537	Crew Cab	170, 194, 218, 254	17,999 – 26,000

F-650 Pro Loader Straight Frame and F-650 Frame Availability

Frame Codes	Cab	Wheelbase (in.)	GVWR (lbs.) ⁽¹⁾
533, 534, 536	Regular	146, 158, 176, 182, 194, 200, 212, 218, 224, 230, 242, 260	17,999 – 29,000
533, 534, 536	SuperCab	167, 179, 197, 203, 215, 221, 233, 239, 245, 251, 263, 281	17,999 – 29,000
533, 534, 536	Crew Cab	182, 194, 212, 218, 230, 236, 248, 254, 260, 266, 278	17,999 – 29,000

F-750 Frame Availability

Frame Codes	Cab	Wheelbase (in.)	GVWR (lbs.) ⁽¹⁾
535, 536, 538, 539, 536/530	Regular	146, 158, 176, 182, 194, 200, 212, 218, 224, 230, 242, 260, 281	25,999 – 33,000
535, 536, 538, 539, 536/530	SuperCab	167, 179, 197, 203, 215, 221, 233, 239, 245, 251, 263, 281	25,999 – 33,000
535, 536, 538, 539, 536/530	Crew Cab	182, 194, 212, 218, 230, 236, 248, 254, 260, 266	25,999 – 33,000

F-750S Frame Availability

Frame Codes	Cab	Wheelbase (in.)	GVWR (lbs.) ⁽¹⁾
536, 538, 539, 536/530	Regular	146, 158, 176, 182, 194, 200, 212, 218, 224, 230, 242, 260	31,000 – 33,000
536, 538, 539, 536/530	SuperCab	179, 197, 203, 215, 221, 233, 239, 245, 251, 263	31,000 – 33,000
536, 538, 539, 536/530	Crew Cab	194, 212, 218, 230, 236, 248, 254, 260, 266	31,000 – 33,000

*With proper tire selection.

CAPABILITY

This page is about:

Dimension Specifics

2005 F-650/F-750 Super Duty Chassis Cabs Capability

Dimension Specifics

Wheelbase Lengths and Cab-to-Axle (CA) Dimensions

A wider range of choices than ever before for a variety of commercial applications.

Regular Cab

WB/CA (inches)	F-650 Pro Loader (Kick-up Frame)	F-650 Pro Loader (Straight Frame)	F-650	F-750	F-750S
134/60	■				
146/72		■	●	●	■
158/84	■	■	●	●	●
176/102		■	■	■	■
182/108	■	■	■	■	■
194/120	■	■	■	■	■
200/126		■	■	■	■
212/138		■	■	■	■
218/144	■	■	■	■	■
224/150		■	■	■	■
230/156		■	■	■	■
242/168	■	■	■	■	■
260/186		■	■	■	■
281/207				■	

■ = Available in straight truck version only.

● = Available in both straight truck and tractor versions. (Tractor versions require 39-inch AF dimension.)

SuperCab

WB/CA (inches)	F-650 Pro Loader (Kick-up Frame)	F-650 Pro Loader (Straight Frame)	F-650	F-750	F-750S
155/60	■				
167/72		■	●	●	
179/84	■	■	●	●	●
197/102		■	■	■	■
203/108	■	■	■	■	■
215/120		■	■	■	■
221/126		■	■	■	■
233/138		■	■	■	■
239/144	■	■	■	■	■
245/150		■	■	■	■
251/156		■	■	■	■
263/168		■	■	■	■
281/186		■	■	■	

■ = Available in straight truck version only.

● = Available in both straight truck and tractor versions. (Tractor versions require 39-inch AF dimension.)

2005 F-650/F-750 Super Duty Chassis Cabs Capability

CAPABILITY

This page is about:

Dimension Specifics cont'd
GVWR and GCWR Capacities

F-650/F-750
SD Chassis Cabs

Dimension Specifics cont'd

Crew Cab

WB/CA (inches)	F-650 Pro Loader (Kick-up Frame)	F-650 Pro Loader (Straight Frame)	F-650	F-750	F-750S
170/60	■				
182/72		■	●	●	
194/84	■	■	●	●	●
212/102		■	■	■	■
218/108	■	■	■	■	■
230/120		■	■	■	■
236/126		■	■	■	■
248/138		■	■	■	■
254/144	■	■	■	■	■
260/150		■	■	■	■
266/156		■	■	■	■
278/168		■	■		

■ = Available in straight truck version only.

● = Available in both straight truck and tractor versions. (Tractor versions require 39-inch AF dimension.)

GVWR and GCWR Capacities

Models (All cab styles)	Min. GVWR (lbs.)	Max. GVWR (lbs.)	Std. GCWR (lbs.)	Opt. GCWR (lbs.)
F-650 Pro Loader Kick-up Frame	17,999	26,000	33,000	60,000
F-650 Pro Loader Straight Frame	17,999	29,000	33,000	70,000
F-650	17,999	29,000	33,000	70,000
F-750	25,999	33,000	33,000	80,000
F-750S	31,000	33,000	60,000	80,000

AUDIO

This page is about:

- AM/FM Stereo
- AM/FM Stereo/6-disc In-dash CD Player
- AM/FM Stereo/Cassette
- Premium AM/FM Stereo/Cassette/Single-disc CD Player

2005 F-650/F-750 Super Duty Chassis Cabs Audio⁽¹⁾

AM/FM Stereo



- 12 watts
- 2 speakers
- 4 AM/8 FM presets
- Electronically tuned with Seek feature
- Tone control
- Digital clock

AM/FM Stereo/6-disc In-dash CD Player



- 80 watts
- 4 premium speakers
- 6 AM/12 FM presets
- Electronically tuned with Seek feature
- 6-disc In-dash CD player
- Digital clock

AM/FM Stereo/Cassette



Includes features of AM/FM stereo plus:

- 24 watts
- 4 speakers
- 6 AM/12 FM presets
- Auto-reverse cassette
- Digital clock

Premium AM/FM Stereo/Cassette/ Single-disc CD Player



Includes features of AM/FM stereo/cassette plus:

- 80 watts
- 4 speakers
- 6 AM/12 FM presets
- CD player
- Digital clock

(1) Refer to the latest Dealer Ordering Guide for specific audio availability.

Note: For additional feature or operating information please refer to the appropriate section of the Owner's Guide.

2005 F-650/F-750 Super Duty Chassis Cabs Wheels

WHEELS







This page is about:

19.5" 8-Lug White Painted Steel

19.5" 8-Lug Polished Aluminum

19.5" 10-Lug White Painted Steel

F-650/F-750
SD Chassis Cabs

Wheel	Ordering Code	Availability	
19.5" 8-Lug White Painted Steel Wheel	 (Front)	645 (6.75" wide)	Standard on F-650 (Kick-up Frame) Pro Loader
	 (Rear)	665 (6.75" wide)	
19.5" 8-Lug Polished Aluminum Wheel	 (Front)	641 (7.5" wide)	Optional
	 (Rear)	661 (7.5" wide)	Optional
19.5" 10-Lug White Painted Steel Wheel	 (Front)	646 (7.5" wide)	Optional
	 (Rear)	666 (7.5" wide)	Optional

NOTES: 19.5-inch wheels are not available on F-750 models.

Refer to the latest Dealer Ordering Guide for wheel availability.

2005 F-650/F-750 Super Duty Chassis Cabs

Tire Terminology

TIRE TERMINOLOGY

This page is about:

Tire Terminology

F-650/F-750
SD Chassis Cabs

Aspect Ratio

$\frac{\text{Section Height}}{\text{Section Width}}$

Rim Width

Linear distance between the flanges of the rim.

Static Loaded Radius

Distance from wheel axle centerline to supporting tread surface at a given load and inflation pressure in a static condition.

Tire (Overall) Width

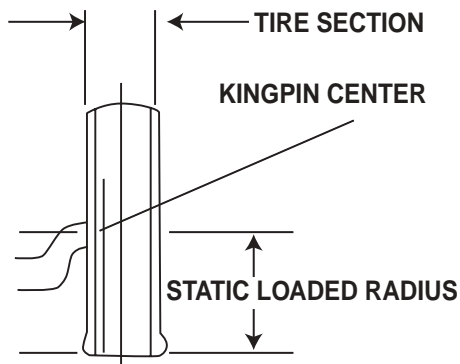
The width of a new tire, including 24-hour inflation growth, and including protective side ribs, bars and decorations.

Tire Section

Linear distance between outside of sidewalls of inflated tire, exclusive of decorations, markings or borders.

Section Height

Half the difference between the overall diameter and the nominal rim diameter.



Overall Diameter

The diameter of an inflated tire at the outermost surface of the tread, including 24-hour inflation growth.

Size Factor

Sum of the tire width and overall diameter of an inflated tire.

Revolutions per Mile

Measured number of revolutions for a tire traveling one mile. This can vary with speed, load and inflation.

Tread Width

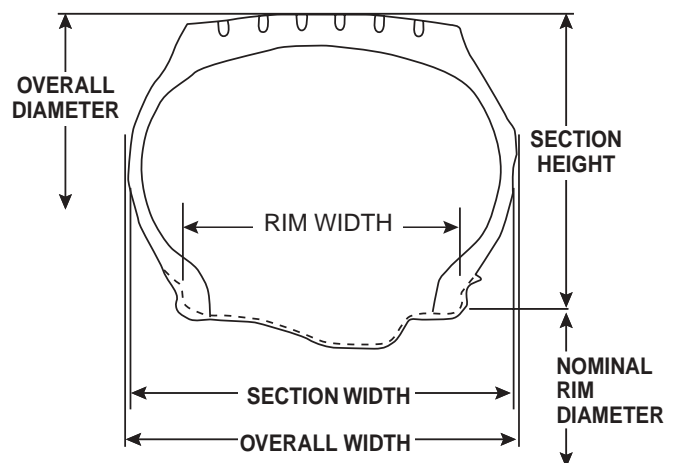
Distance across tread from shoulder to shoulder.

Width Loaded

Tire width (overall) under rated load conditions.

Minimum Dual Spacing

Minimum dual tire centerline to centerline measurement.



SEATS

This page is about:

— XL/XLT

2005 F-650/F-750 Super Duty Chassis Cabs Seats

	Interior Color	
	Flint Grey	
	Driver Seat Order Code	Passenger Seat Order Code
XL/XLT		
Vinyl Individual Driver Captain's Chair with Two-person Passenger Bench Seat w/Folding Seatback (standard on XL)	88H	85A
Vinyl Dual Captain's Chairs with Armrests	88H	85H
Savage Vinyl Individual Driver Captain's Chair with Two-person Passenger Bench Seat w/Folding Seatback	88D	85B
Savage Vinyl Dual Captain's Chairs with Armrests	88D	85D
Savage Vinyl Hi-back Easy-Aire Driver Seat with Non-suspended (NS) Two-person Passenger Bench Seat w/Folding Seatback	88E	85B
Savage Vinyl Hi-back Easy-Aire Driver Seat with NS Individual Passenger Captain's Chair w/Armrest	88E	85E
Savage Vinyl Hi-back Full Air Ride Driver Seat with NS Two-person Passenger Bench Seat w/Folding Seatback	88F	85B
Savage Vinyl Hi-back Full Air Ride Driver Seat with NS Individual Passenger Captain's Chair w/Armrest	88F	85E
Savage Vinyl Hi-back Full Air Ride Driver and Passenger Seats	88F	85L
Cloth 40/20/40 Split Bench Seat (standard on XLT)	88N	85N
Cloth Individual Driver Captain's Chair with Two-person Passenger Bench Seat w/Folding Seatback	88R	85T
Cloth Dual Captain's Chairs with Armrests	88R	85R
Cloth Hi-back Easy-Aire Driver Seat with NS Two-person Passenger Bench Seat w/Folding Seatback	88T	85T
Cloth Hi-back Easy-Aire Driver Seat with NS Individual Passenger Captain's Chair w/Armrest	88T	85R
Cloth Hi-back Full Air Ride Driver Seat with NS Two-person Passenger Bench Seat w/Folding Seatback	88W	85T
Cloth Hi-back Full Air Ride Driver Seat with NS Individual Passenger Captain's Chair w/Armrest	88W	85R
Cloth Hi-back Full Air Ride Driver and Passenger Seats	88W	85Z
Leather Seating Surfaces Dual Captain's Chairs with Armrests (optional on XLT only)	88S	85S

NOTE: Please refer to the 2005 Color and Upholstery Book or the Specifications section of **eSourceBook** (esourcebook.dealerconnection.com) for illustrations of the available seating choices.

NOTE: Optional Passenger Seat Delete (order code 85X) and optional Rear Seat Delete (order code 87X) are available. Rear Seat Delete is available on SuperCab and Crew Cab.

2005 F-650/F-750 Super Duty Chassis Cabs

Fuel Tanks

FUEL TANKS

This page is about:

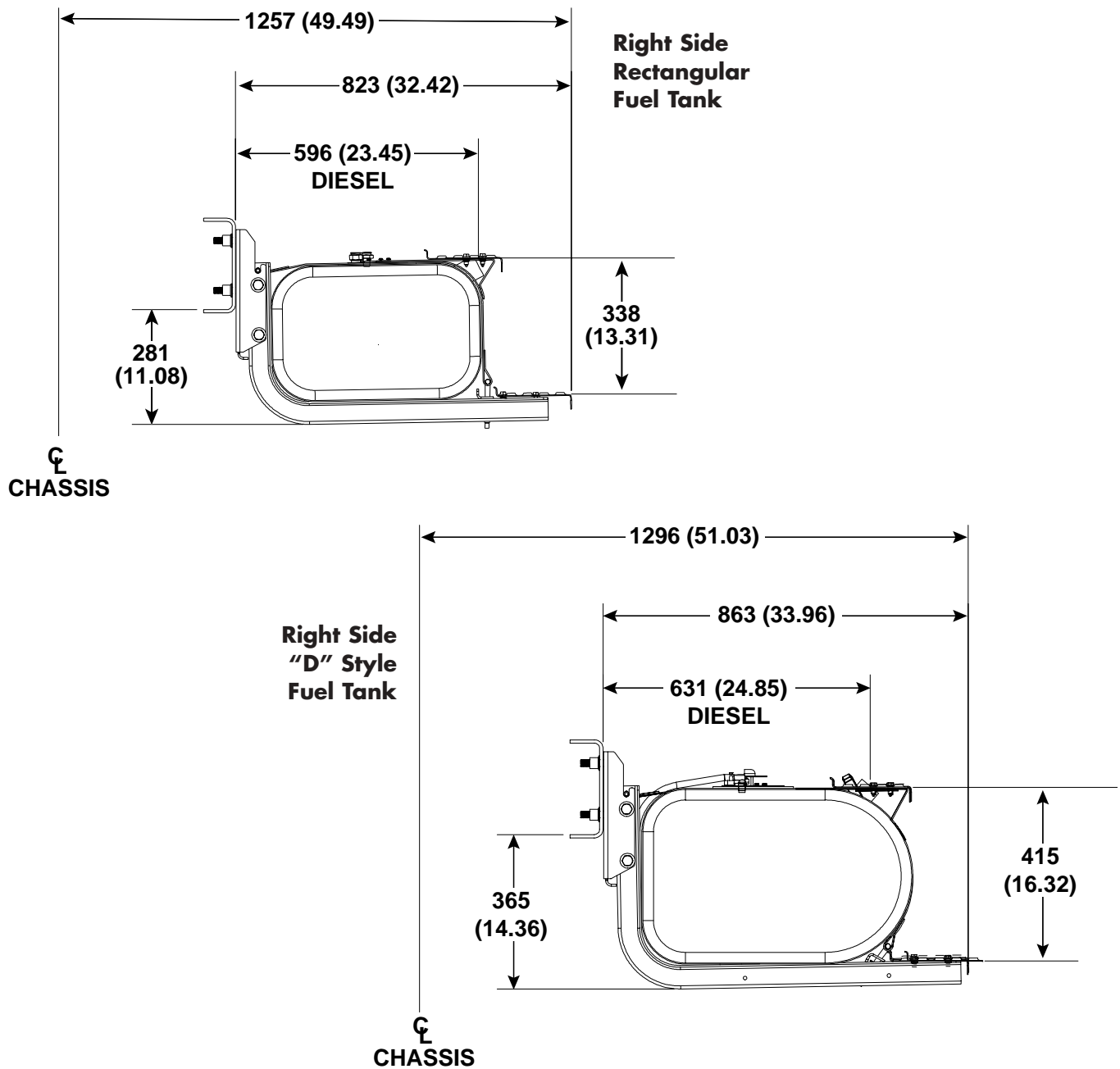
Fuel Tank Availability

F-650/F-750
SD Chassis Cabs

Fuel Tank Availability

The standard fuel tank for F-650/F-750 is a right-hand-mounted 45-gallon D-style steel tank, except on the F-650 Pro Loader which has a 35-gallon tank. Fuel tanks are available in 13-inch and 16-inch depths, allowing for trucks to be configured for maximum ground clearance.

A wide variety of both single and dual fuel tanks is available on F-650/F-750 models, ranging from the standard 35- or 45-gallon capacity all the way up to a maximum 160-gallon (80-gal./80-gal. dual tank) capacity on select models.



CLUSTER/CONFIGURATIONS

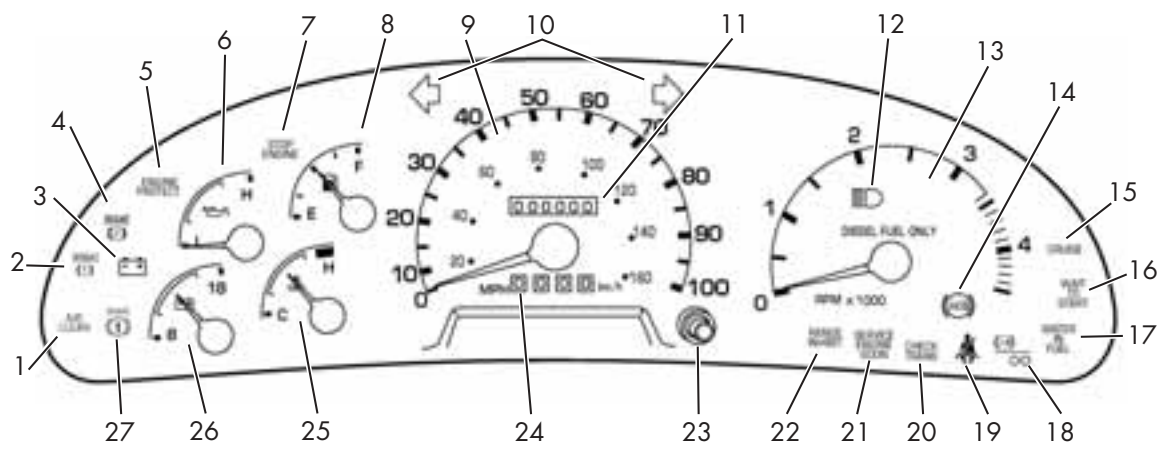
This page is about:

- Instrument Cluster
- Configurations

2005 F-650/F-750 Super Duty Chassis Cabs

Instrument Cluster/Configurations

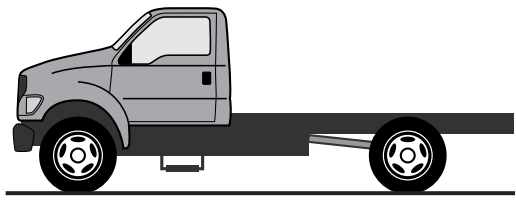
Instrument Cluster



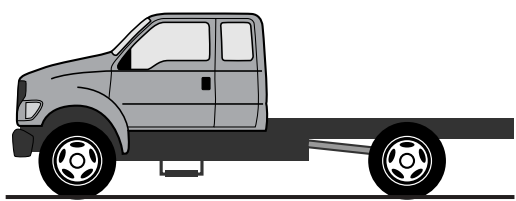
- | | | |
|--|---|--|
| <ul style="list-style-type: none"> 1. Air clean warning light 2. Brake warning light 3. Charging system warning light 4. Parking brake (hydraulic brake system) warning light⁽¹⁾ 5. Engine protect warning light (Cummins 5.9L engine only) 6. Engine oil pressure gauge 7. Stop engine warning light⁽¹⁾ 8. Fuel gauge 9. Speedometer | <ul style="list-style-type: none"> 10. Turn signal indicators 11. Odometer 12. High beam indicator 13. Tachometer 14. ABS service light 15. Cruise control operation light 16. Wait to start warning light 17. Water in fuel warning light 18. Trailer ABS operation light 19. Fasten safety belt warning light | <ul style="list-style-type: none"> 20. Check transmission warning light (Allison automatic transmission only) 21. Service engine soon warning light 22. Range inhibit warning light 23. Trip odometer reset button 24. Trip odometer 25. Engine coolant temperature gauge 26. Battery voltage gauge 27. Brake reserve system warning light |
|--|---|--|

(1) If equipped.

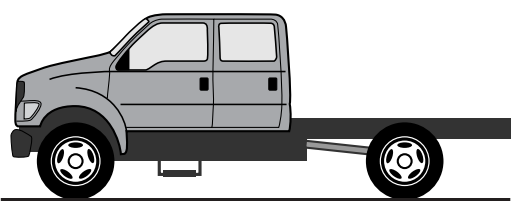
Configurations



Regular Cab
134"/60" — 281"/207" Wheelbases/
Cab-to-rear-axle Dimensions
(Tractor Package available on
146.0" and 158.0" Wheelbases)



SuperCab
155"/60" — 281"/186" Wheelbases/
Cab-to-rear-axle Dimensions
(Tractor Package available on
167.0" and 179.0" Wheelbases)



Crew Cab
170"/60" — 278"/168" Wheelbases/
Cab-to-rear-axle Dimensions
(Tractor Package available on
182.0" and 194.0" Wheelbases)

2005 F-650/F-750 Super Duty Chassis Cabs

Frame Features

FRAME FEATURES

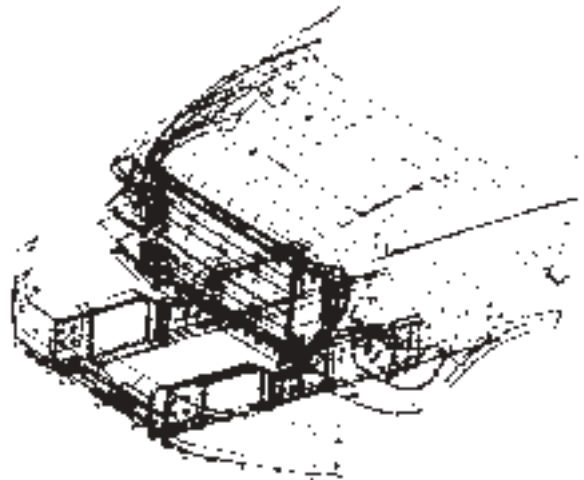
This page is about:

- 20-inch Huck-bolted Front Frame Extension
- Huck Bolts
- Integral Frame Extensions

20-inch Huck-bolted Front Frame Extension

A 20-inch huck-bolted front frame extension is offered as an option on all F-650⁽¹⁾ and F-750⁽¹⁾ models with either the standard frame or with the frame reinforcement option, including all wheelbases and cab styles. The front frame extension provides a strong, factory-built platform for mounting and supporting equipment on the front end of the vehicle. Requires Fixed Grille and swept-back bumper or bumper delete options.

This arrangement provides the best of both worlds. Huck bolts will not loosen, yet can be removed (and later reinstalled) if the front-end extension is no longer needed. (Some competitive models employ a longer one-piece frame to extend the front. With this setup, if the extension is no longer desired, the frame must be permanently cut to remove the extension.)



Huck Bolts

The extension is attached to the existing rails of the truck using a large number of huck bolt fasteners.

The advantage of the huck bolt versus the standard Grade 8 bolt is that once bolted, it can never be unbolted and requires no retorquing. This benefits the truck owner who wants to fasten front-mounted equipment without concern about it coming loose due to vibration. In contrast, the Grade 8 bolt requires retorquing from time to time, but does allow the driver to attach equipment with the option of removing it after use.



Integral Frame Extensions

The integral frame extension is optional on F-750 S. This choice will give you an edge when the written specs for a bid require an integral extension.



(1) Except F-650 Pro Loader and F-750 S model.

FRAME TERMS

This page is about:

Frame Terms

2005 F-650/F-750 Super Duty Chassis Cabs Frame Terms

Frame Terms

Frame Strength Considerations

In considering frame strength, there are three major design criteria that must be evaluated in order to make a correct frame selection.

1. The shape and dimensional characteristics (cross-section) of the frame. (Section Modulus)
2. The characteristics of the material used in construction of the frame. (Yield Strength)
3. The overall result of the shape, dimensional and material characteristics. (Resisting Bending Moment)

These three areas are discussed below with some important definitions:

1. Shape and Dimensional Characteristics

SM (Section Modulus) — *A measure of frame strength and rigidity determined by the shape, thickness, flange width and depth of the side rails and reinforcements, if used (see figure).*

Section Modulus is expressed in cubic inches (cu. in.). In comparing frames made of the *same material*, the frame with the greatest Section Modulus is the strongest.

2. Material Characteristics

Yield Strength — *The maximum load that can be applied to a material before permanent deformation occurs.*

This means, in effect, the maximum load that will allow the material to return to its original shape after the load is removed. The Yield Strength of frames — expressed in pounds per square inch (psi) — is a characteristic of the materials used in their construction, e.g., carbon steel, high-tensile steel, etc.

Since Yield Strength is a measurement of the material characteristics, it is an assigned number that can be retrieved from a table. Typical frame Yield Strength ranges from 50,000 to 125,000 psi.

3. Combination of Shape, Dimensional and Material Characteristics

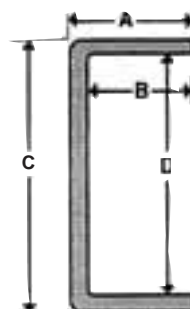
RBM (Resisting Bending Moment) — *The maximum bending moment that a particular frame configuration can support without permanent deformation or failure.*

It is a calculated value used to compare frames of differing composition and Section Modulus. It is obtained by multiplying Section Modulus by Yield Strength and is expressed in inch-pounds (in.-lbs.). In comparing frames made of *unlike materials*, the frame with the highest RBM has the most strength.

It should be noted that when a frame is constructed of two different materials, the lower Yield Strength is used to compute RBM.

Computing Frame Strength

The formulas for Flange Thickness, Section Modulus and Resisting Bending Moment for a full "C" channel are as follows:



$$t = A - B = \frac{C - D}{2} = \text{Flange Thickness}$$

$$SM = \frac{AC^3 - BD^3}{6C} = \text{Section Modulus}$$

$$RBM = \text{Yield Strength} \times SM$$

Dimensions Affecting Strength and Resisting Bending Moment

Section Modulus (SM) is not the complete measure of frame strength. Yield Strength of the material also needs to be factored in. Ford steel frames come in a variety of Yield Strengths ranging from 50,000 to 120,000 psi. High-tensile strength frames (120,000 psi) are available to provide load support for more demanding applications without adding the additional weight of a reinforcement. Also, in some cases, the use of thicker, bulkier double-channel frames may interfere with the "packaging" of other equipment or components.

As previously defined, it is important to remember that to obtain the overall measure of frame strength, it is necessary to multiply the Section Modulus by the Yield Strength. The resulting value, expressed in in.-lbs., is the Resisting Bending Moment (RBM). **RBM is the best measure of comparing overall strength between different frames.**

Frames need to be strongest where stress is concentrated. For example, in highway tractors this is typically near the centerline of the rear axle, or trunnion for tandem axle trucks, while in dump trucks it is just behind the cab. Normally, stresses are much less at the ends of the frame compared to the span between front and rear axles. This is why variable depth frames are the correct choice for many applications; the frame is strong where it needs to be strong without needlessly adding cost and weight.

2005 F-650/F-750 Super Duty Chassis Cabs Frames

FRAME DIFFERENCES

This page is about:

Frame Rail Specifications

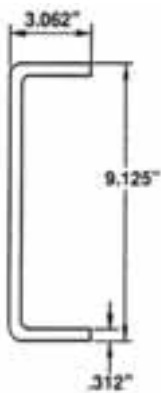
Frame Rail Cross Sections

F-650/F-750
SD Chassis Cabs

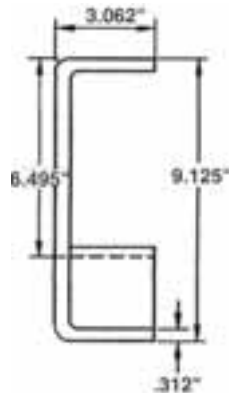
Frame Rail Specifications

CODE	DIMENSIONS (inches)			YIELD STRENGTH Min. (psi)	SECTION MODULUS (inches ³) Maximum	RESISTING BENDING MOMENT (in.-lbs.) Maximum
	Depth	Width	Thickness			
533	9.125	3.062	0.312	80,000	11.47	917,600
537	9.125	3.062	0.312	80,000	11.47	917,600
534	10.125	3.062	0.312	50,000	13.31	665,500
536	10.125	3.580	0.312	120,000	14.84	1,780,800
535	10.250	3.092	0.375	80,000	15.94	1,275,200
538	10.250	3.610	0.375	120,000	17.79	2,134,800
539	10.375	3.705	0.438	120,000	21.05	2,526,000
530	10.813	3.892	0.312	120,000	29.84	3,580,800

Frame Rail Cross Sections



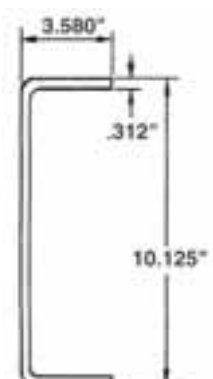
Frame 533



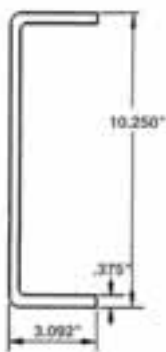
Frame 537



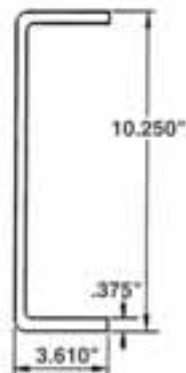
Frame 534



Frame 536



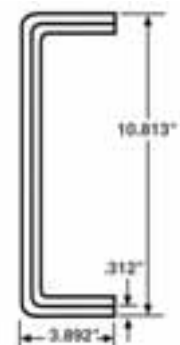
Frame 535



Frame 538

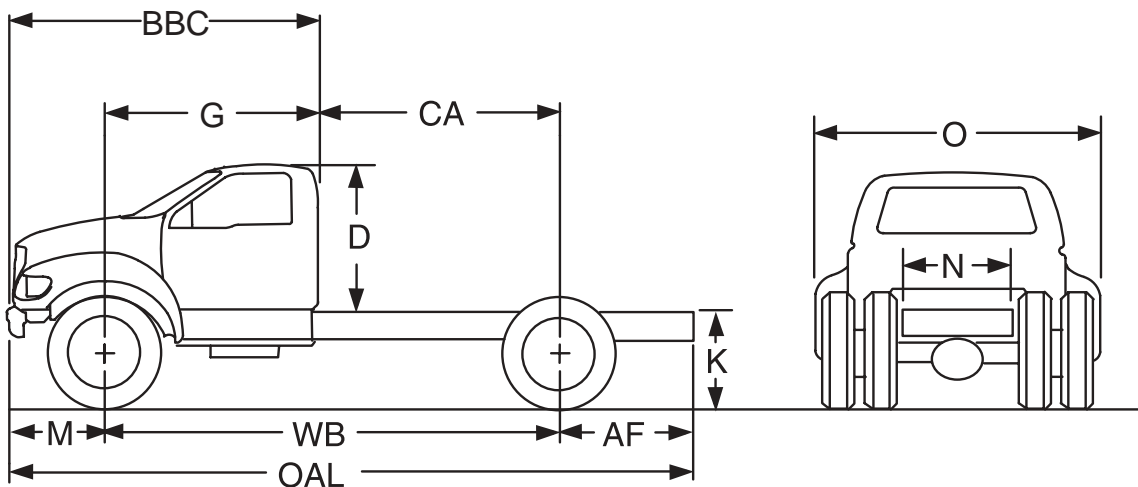


Frame 539



Outer - Frame 530
Inner - Frame 536

2005 F-650/F-750 Super Duty Chassis Cabs Dimensions



Body Dimensions REGULAR CAB CHASSIS

Wheelbase		134.0 WB.	146.0 WB.	158.0 WB.	158.0 WB.	158.0 WB.	176.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	59.6	71.8	83.6	83.6	83.6	101.7
AF	Rear Axle to End of Frame	39.0	39.0	63.0	39.0	49.0	70.0
OAL	Overall Length	212.2	224.4	260.2	236.2	246.1	285.4
A	Head Room	41.3	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	113.0	113.0	113.0	113.0	113.0	113.0
G	C/L Front Axle to Back of Cab	74.0	74.0	74.0	74.0	74.0	74.0
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0	96.0

Wheelbase		182.0 WB.	182.0 WB.	194.0 WB.	200.0 WB.	212.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	107.6	107.6	119.8	137.6	143.9
AF	Rear Axle to End of Frame	75.0	70.0	75.0	81.0	81.0
OAL	Overall Length	296.5	291.3	308.7	314.6	332.3
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	113.0	113.0	113.0	113.0	113.0
G	C/L Front Axle to Back of Cab	74.0	74.0	74.0	74.0	74.0
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

2005 F-650/F-750 Super Duty Chassis Cabs

Dimensions cont'd

F-650/F-750 SD CHASSIS CABS

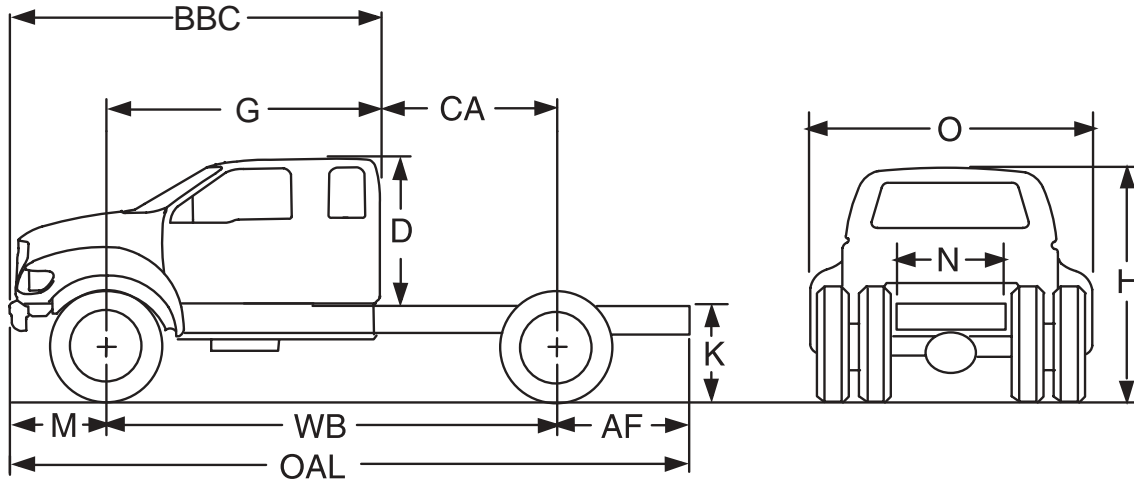
SD Chassis Cabs

Body Dimensions REGULAR CAB CHASSIS

Wheelbase		218.0 WB.	224.0 WB.	230.0 WB.	242.0 WB.	260.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	143.9	149.8	155.7	167.9	185.6
AF	Rear Axle to End of Frame	81.0	87.0	87.0	100.0	120.0
OAL	Overall Length	338.6	350.4	356.3	381.5	419.3
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	113.0	113.0	113.0	113.0	113.0
G	C/L Front Axle to Back of Cab	74.0	74.0	74.0	74.0	74.0
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

2005 F-650/F-750 Super Duty Chassis Cabs

Dimensions cont'd



Body Dimensions SUPERCAB CHASSIS

Wheelbase		155.0 WB.	167.0 WB.	179.0 WB.	179.0 WB.	179.0 WB.	197.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	60.0	71.9	84.1	84.1	84.1	101.8
AF	Rear Axle to End of Frame	39.0	39.0	49.0	63.0	39.0	70.0
OAL	Overall Length	233.5	245.3	267.3	281.5	257.5	306.3
A	Head Room	41.3	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	134.4	134.4	134.4	134.4	134.4	134.4
G	C/L Front Axle to Back of Cab	95.1	95.1	95.1	95.1	95.1	95.1
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0	96.0

Wheelbase		203.0 WB.	203.0 WB.	215.0 WB.	221.0 WB.	233.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	108.1	108.1	119.9	125.8	138.0
AF	Rear Axle to End of Frame	70.0	75.0	75.0	75.0	81.0
OAL	Overall Length	312.6	317.7	329.5	335.4	353.5
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	134.4	134.4	134.4	134.4	134.4
G	C/L Front Axle to Back of Cab	95.1	95.1	95.1	95.1	95.1
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

2005 F-650/F-750 Super Duty Chassis Cabs

Dimensions cont'd

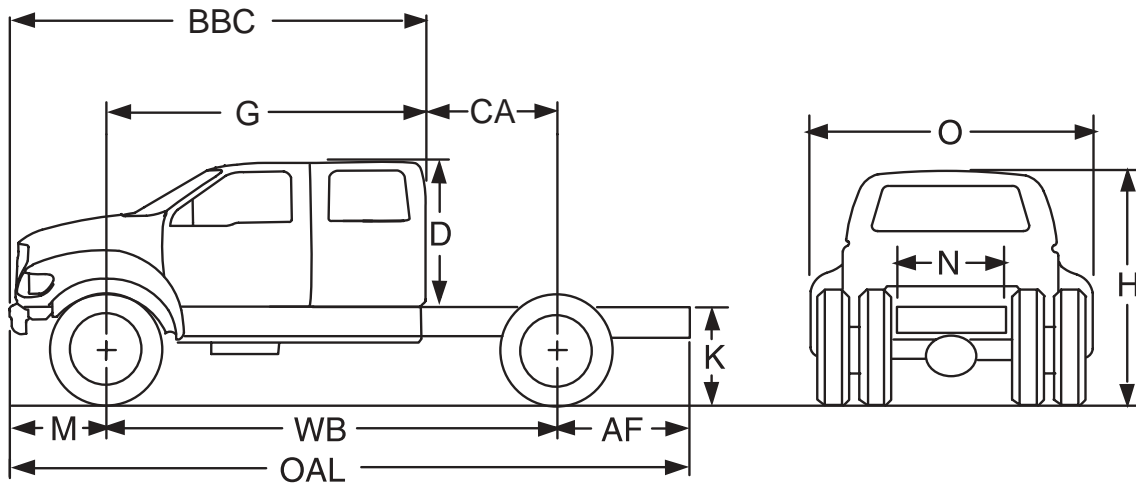
F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

Body Dimensions SUPERCAB CHASSIS

Wheelbase		239.0 WB.	245.0 WB.	251.0 WB.	263.0 WB.	281.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	143.9	149.8	156.1	167.9	186.0
AF	Rear Axle to End of Frame	81.0	87.0	87.0	100.0	120.0
OAL	Overall Length	359.4	371.3	377.6	402.4	440.6
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	134.4	134.4	134.4	134.4	134.4
G	C/L Front Axle to Back of Cab	95.1	95.1	95.1	95.1	95.1
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

2005 F-650/F-750 Super Duty Chassis Cabs Dimensions cont'd



Body Dimensions CREW CAB CHASSIS

Wheelbase		170.0 WB.	182.0 WB.	194.0 WB.	194.0 WB.	194.0 WB.	212.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	60.5	72.3	84.5	84.5	84.5	102.2
AF	Rear Axle to End of Frame	39.0	39.0	49.0	63.0	39.0	70.0
OAL	Overall Length	248.4	260.2	282.3	296.5	272.4	321.3
A	Head Room	41.3	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	149.0	149.0	149.0	149.0	149.0	149.0
G	C/L Front Axle to Back of Cab	109.6	109.6	109.6	109.6	109.3	109.6
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0	96.0

Wheelbase		218.0 WB.	218.0 WB.	230.0 WB.	236.0 WB.	248.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	108.5	108.5	120.3	126.2	138.4
AF	Rear Axle to End of Frame	70.0	75.0	75.0	75.0	81.0
OAL	Overall Length	327.6	332.7	344.5	350.4	368.5
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	149.0	149.0	149.0	149.0	149.0
G	C/L Front Axle to Back of Cab	109.6	109.6	109.6	109.6	109.3
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

2005 F-650/F-750 Super Duty Chassis Cabs

Dimensions cont'd/Curb Weights

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

Body Dimensions CREW CAB CHASSIS

Wheelbase		254.0 WB.	254.0 WB.	260.0 WB.	266.0 WB.	278.0 WB.
Code	Description	(in.)	(in.)	(in.)	(in.)	(in.)
CA	Back of Cab to C/L Rear Axle	144.3	144.3	150.0	156.5	168.3
AF	Rear Axle to End of Frame	81.0	96.0	87.0	87.0	100.0
OAL	Overall Length	374.4	389.4	386.2	392.5	417.3
A	Head Room	41.3	41.3	41.3	41.3	41.3
B	Hip Room	67.4	67.4	67.4	67.4	67.4
C	Leg Room	40.7	40.7	40.7	40.7	40.7
D	Frame to Top of Cab	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	149.0	149.0	149.0	149.0	149.0
G	C/L Front Axle to Back of Cab	109.6	109.6	109.6	109.6	109.6
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width	80.3	80.3	80.3	80.3	80.3
M	Front Overhang	39.4	39.4	39.4	39.4	39.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width over Fenders	97.0	97.0	97.0	97.0	97.0
T	Rear Tread Width	96.0	96.0	96.0	96.0	96.0

Base Curb Weights⁽¹⁾

Series	Model	Wheelbase Range (in.)	Base Curb Weight Range (lbs.)
F-650	Proloader Kick-up Frame		
	Regular Cab	134.0-242.0	7774-8306
	SuperCab	155.0-239.0	8100-8483
	Crew Cab	170.0-254.0	8270-8711
F-650	Proloader Straight Frame		
	Regular Cab	146.0-260.0	7859-8472
	SuperCab	167.0-281.0	8170-8782
	Crew Cab	182.0-278.0	8342-8850
F-650	Straight Frame		
	Regular Cab	146.0-260.0	8233-8846
	SuperCab	167.0-281.0	8549-9156
	Crew Cab	182.0-278.0	8716-9224
F-750	Regular Cab	146.0-260.0	8526-9249
	SuperCab	167.0-263.0	8848-9446
	Crew Cab	182.0-266.0	9029-9544
F-750S	Regular Cab	158.0-260.0	9063-9787
	SuperCab	179.0-263.0	9391-9980
	Crew Cab	194.0-266.0	9595-10,076

(1) Includes minimum required and standard equipment, water and oil.

2005 F-650/F-750 Super Duty Chassis Cabs Standard Equipment Specifications

REGULAR CHASSIS CAB (134"– 281" WB.)

DRIVE:		4x2 F-650 Pro Loader	4x2 F-650 Straight Frame
GVWR: (lbs.)		22,000/26,000	30,000/33,000
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	
Transmission	— Type	Allison 2500 RDS/WR	
	— Speeds	5-Speed Automatic Overdrive	
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	Spicer D-850F, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	8500 lbs.	9000/12,000 lbs.
Rear Axle	— Type	S135-S Single Reduction with 170 Wheel Ends	Spicer 17060S Single Reduction with 190 Wheel Ends
	— Capacity (Rating @ Ground)	23,500 lbs.	17,500 lbs.
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	
Front	— Type	15.00" x 1.44" Cast Disc	
Rear	— Type	15.00" x 1.44" Cast Disc	
Compressor			
Anti-Lock System		Four Channel Wabco Anti-lock Brake System	
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type with Lever Control	
Dust Shields		Standard	Standard
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	— Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	35.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-40	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Tapered 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 50,000 PSI steel
	— Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	— Type	1.375" Dia. Double Acting	
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	
	— Rating @ Ground (min.)	8500 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	13,500 lbs.	18,500 lbs.
WHEEL SEALS	— Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G647 RSA Radial	Goodyear G159 Radial
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
WHEELS:			
Front	— Type	8-Hole Steel Disc, Hub-piloted, Painted White	10-hole Steel Disc, Hub-piloted, Painted White
	— Size	19.5 x 6.75	22.5 x 7.5
Rear	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	10-hole Steel Disc, Hub-piloted, Painted White
	— Size	19.5 x 6.75	22.5 x 7.5

2005 F-650/F-750 Super Duty Chassis Cabs

Standard Equipment Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

SUPERCAB CHASSIS CAB (155" -281" WB.)

DRIVE:		4x2 F-650 Pro Loader	4x2 F-650 Straight Frame
GVWR: (lbs.)		22,500/26,000	
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	
Transmission	— Type	Allison 2500 RDS/WR	
	— Speeds	5-Speed Automatic Overdrive	
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	Spicer D-850F, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	8500 lbs.	
Rear Axle	— Type	S135-S Single Reduction with 170 Wheel Ends	Spicer 17060S Single Reduction with 190 Wheel Ends
	— Capacity (Rating @ Ground)	23,500 lbs.	17,500 lbs.
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	
Front	— Type	15.00" x 1.44" Cast Disc	
Rear	— Type	15.00" x 1.44" Cast Disc	
Compressor		—	
Anti-Lock System		Four Channel Wabco Anti-lock Brake System	
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type with Lever Control	
Dust Shields		Standard	Standard
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	— Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	35.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-40	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Tapered 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 50,000 PSI steel
	— Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	— Type	1.375" Dia. Double Acting	
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	
	— Rating @ Ground (min.)	8500 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	13,500 lbs.	18,500 lbs.
WHEEL SEALS	Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G647 RSA Radial	Goodyear G159 Radial
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
WHEELS:			
Front	— Type	8-Hole Steel Disc, Hub-piloted, Painted White	10-hole Steel Disc, Hub-piloted, Painted White
	— Size	19.5 x 6.75	22.5 x 7.5
Rear	— Type	8-Hole Steel Disc, Hub-piloted, Painted White	10-hole Steel Disc, Hub-piloted, Painted White
		19.5 x 6.75	22.5 x 7.5

2005 F-650/F-750 Super Duty Chassis Cabs

Standard Equipment Specifications cont'd

CREW CAB CHASSIS CAB (170" -278" WB.)

DRIVE:		4x2 F-650 Pro Loader	4x2 F-650 Straight Frame
GVWR: (lbs.)		22,000/26,000	
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	
Transmission	— Type	Allison 2500 RDS/WR	
	— Speeds	5-Speed Automatic Overdrive	
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	Spicer D-850F, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	8500 lbs.	
Rear Axle	— Type	S135-S Single Reduction with 170 Wheel Ends	Spicer 17060S Single Reduction with 190 Wheel Ends
	— Capacity (Rating @ Ground)	23,500 lbs.	17,500 lbs.
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	
Front	— Type	15.00" x 1.44" Cast Disc	
Rear	— Type	15.00" x 1.44" Cast Disc	
Compressor		—	
Anti-Lock System		Four Channel Wabco Anti-lock Brake System	
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type with Lever Control	
Dust Shields		Standard	Standard
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	— Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	35.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-40	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Tapered 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 50,000 PSI steel
	— Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	— Type	1.375" Dia. Double Acting	
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	
	— Rating @ Ground (min.)	8500 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	13,500 lbs.	18,500 lbs.
WHEEL SEALS	Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G647 RSA Radial	Goodyear G159 Radial
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	
	— Size	245/70R19.5F (12 ply rated)	10R22.5G (14 ply rated)
WHEELS:			
Front	— Type	8-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
	— Size	19.5 x 6.75	22.5 x 7.5
Rear	— Type	8-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
		19.5 x 6.75	22.5 x 7.5

2005 F-650/F-750 Super Duty Chassis Cabs

Standard Equipment Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

REGULAR CHASSIS CAB (146" – 260" WB.)

DRIVE:		4x2 F-750	4x2 F-750 S
GVWR: (lbs.)		30,000/33,000	
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	Caterpillar 3126E 7.2L 210HP @ 2200 rpm, 605 lb.-ft. Torque @ 1440 rpm, 2500 rpm Governed Speed
Transmission	— Type	Allison 2500 RDS/WR	Allison 3000 RDS/CR
	— Speeds	5-Speed Automatic Overdrive	6-Speed Automatic Overdrive
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	I-1000SG, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	— Type	Spicer 21060S Single Reduction with 190 Wheel Ends	
	— Capacity (Rating @ Ground)	21,000 lbs.	17,500 lbs.
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	Air, Dual System with Front and Rear Automatic Slack Adjusters
Front	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 15.0" x 4.0" Cast Drum with MGM Long Stroke Brake Chambers
Rear	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 15.0" x 4.0" Cast Drum with MGM Long Stroke Brake Chambers
Compressor			Bendix, 13.2 CFM, Air
Anti-Lock System		Four Channel Wabco	Four Channel Bendix
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type with Lever Control	Heavy Duty, Spring-set, Rear Axle – MGM
Moisture Ejectors			Standard
Dust Shields		Standard	
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	45.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-65	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Straight "C" 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 120,000 PSI heat treated Alloy steel
	— Section Modulus (cu. in.)	15.14 SM	16.98 SM
Shock Absorbers, Front	Type	1.38" Double Acting	1.75"
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	4" x 54" Parabolic Taper-leaf
	— Rating @ Ground (min.)	10,000 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	23,500 lbs.	18,500 lbs.
WHEEL SEALS	Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G159 Radial	
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
WHEELS:			
Front	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	
	— Size	22.5 x 7.5	
Rear	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	
	— Size	22.5 x 7.5	

2005 F-650/F-750 Super Duty Chassis Cabs

Standard Equipment Specifications cont'd

SUPERCAB CHASSIS CAB (167" – 263" WB.)

DRIVE:		4x2 F-750	4x2 F-750 S
GVWR: (lbs.)		30,000/33,000	
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	Caterpillar 3126E 7.2L 210HP @ 2200 rpm, 605 lb.-ft. Torque @ 1440 rpm, 2500 rpm Governed Speed
Transmission	— Type	Allison 2500 RDS/WR	Allison 3000 RDS/CR
	— Speeds	5-Speed Automatic Overdrive	6-Speed Automatic Overdrive
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	I-1000SG, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	— Type	Spicer 17060S Single Reduction with 190 Wheel Ends	
	— Capacity (Rating @ Ground)	21,000 lbs.	
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	Air, Dual System with Front and Rear Automatic Slack Adjusters
Front	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 15.0" x 4.0" Cast Drum with MGM Long Stroke Brake Chambers
Rear	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 15.0" x 4.0" Cast Drum with MGM Long Stroke Brake Chambers
Compressor			Bendix, 13.2 CFM, Air
Anti-Lock System		Four Channel Wabco	Four Channel Bendix
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type	Heavy Duty, Spring-set, Rear Axle – MGM
Dust Shields		NA	Standard
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	— Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	45.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-65	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Straight "C" 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 120,000 PSI heat treated Alloy steel
	— Section Modulus (cu. in.)	15.14 SM	16.98 SM
Shock Absorbers, Front	— Type	1.375" Dia. Double Acting	1.75"
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	4" x 54" Parabolic Taper-leaf
	— Rating @ Ground (min.)	10,000 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	23,500 lbs.	18,500 lbs.
WHEEL SEALS	Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G159 Radial	
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	Goodyear G167A Radial
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
WHEELS:			
Front	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
	— Size	22.5 x 7.5	
Rear	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
	— Size	22.5 x 7.5	22.5 x 7.5

2005 F-650/F-750 Super Duty Chassis Cabs

Standard Equipment Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

CREW CAB CHASSIS CAB (182"- 266" WB.)

DRIVE:		4x2 F-750	4x2 F-750 S
GVWR: (lbs.)		30,000/33,000	
POWERTRAIN:		50 state certified	
Engine	— Type	PowerStroke 6.0L V-8 (200 hp @ 2600 rpm, 520 lb.-ft. Torque @ 1500 rpm, 2800 rpm Governed Speed)	Caterpillar 3126E 7.2L 210 hp @ 2200 rpm, 605 lb.-ft. Torque @ 1440 rpm, 2500 rpm Governed Speed
Transmission	— Type	Allison 2500 RDS/WR	Allison 3000 RDS/CR
	— Speeds	5-Speed Automatic Overdrive	6-Speed Automatic Overdrive
Clutch	— Type	None	
	— Diameter	—	
Front Axle	— Type	I-100SG, I-Beam Type (Includes Ross TAS-40 Integral Power Steering)	
	— Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	— Type	Spicer 21060S Single Reduction with 190 Wheel Ends	
	— Capacity (Rating @ Ground)	21,000 lbs.	
Universal Joint	— Type	SPL-100	SPL-100
BRAKES:			
System	— Type	Hydraulic, Split System, with Automatic Adjustment	Air, Dual System with Front and Rear Automatic Slack Adjusters
Front	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 15.0" x 4.0" Cast Drum with MGM Long Stroke Brake Chambers
Rear	— Type	15.00" x 1.44" Cast Disc	S-Cam operated 16.5" x 7.0" Cast Drum with MGM TR3030 Long Stroke Brake Chambers
Compressor			Bendix, 13.2 CFM, Air
Anti-Lock System		Four Channel Wabco	Four Channel Bendix
Parking Brake (Rr Brakes)		12" x 3" Rear Axle Mounted Parking Brake (Bosch) DDSA Type	Heavy Duty, Spring-set, Rear Axle – MGM
Dust Shields		NA	Standard
ELECTRICAL:			
Alternator	— Rating	Leece-Neville 130 Amperes, 1950 Watt, Brush Type	
Battery	— Type	Motorcraft 12-volt Maintenance-Free	
	— Rating	Dual, 625 CCA (1250 Total)	
	— Box Location	LH Forward Under Cab	
EXHAUST	— Type	Single Horizontal Muffler and Short Tail Pipe, Aluminized Steel, Frame Mounted Right Side	
FUEL TANK:	— Capacity	45.0 gallon, Single, RH Rectangular Steel, Shallow (13" deep)	
STEERING:	— Type	Integral Power, Ross TAS-65	
	— Ratio	20.4:1	
SUSPENSION:			
Frame	— Type	Ladder Type Single Channel – Straight "C" 80,000 PSI steel	Ladder Type Single Channel – Straight "C" 120,000 PSI heat treated Alloy steel
	— Section Modulus (cu. in.)	15.14 SM	16.98 SM
Shock Absorbers, Front	— Type	1.375" Double Acting	1.75"
Springs, Front	— Type	3" x 54" Parabolic Taper-leaf	4" x 54" Parabolic Taper-leaf
	— Rating @ Ground (min.)	10,000 lbs.	
Springs, Rear	— Type	Multi-leaf, Vari-Rate (includes 4500 lb. AEON Auxiliary Rubber Spring)	
	— Rating @ Ground (min.)	23,500 lbs.	18,500 lbs.
WHEEL SEALS	— Type	Front Greased and Rear Oil	
TIRES:			
Front	— Type	Goodyear G159 Radial	
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
Rear	— Type	Goodyear G124 Radial	Goodyear G167A Radial
	— Size	10R22.5G (14 ply rated)	11R22.5G (14 ply rated)
WHEELS:			
Front	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
	— Size	22.5 x 7.5	
Rear	— Type	10-Hole Steel Disc, Hub-piloted, Painted White	10-Hole Steel Disc, Hub-piloted, Painted White
	— Size	22.5 x 7.5	22.5 x 7.5

2005 F-650/F-750 Super Duty Chassis Cabs Technical Specifications

Axles

FRONT AXLE SPECIFICATIONS

Regular/Super/Crew Cab Chassis Models

Manufacturer		Spicer	International	International	Spicer
Max. Rating @ Ground (lbs.)		8,500	10,000	12,000	13,200
Axle	— Type	I-Beam w/King Pin Spindles	I-Beam w/King Pin Spindles	I-Beam w/King Pin Spindles	I-Beam w/King Pin Spindles
	— Material	Forged Steel	Forged Steel	Forged Steel	Forged Steel
	— Spring Centers (in.)	35.0	35.0	35.0	35.0
King Pins	— Bushing Material	Bronze	Bronze	Bronze	Bronze
Spindle	— Material	Steel	Steel	Steel	Steel
Wheel Bearings	— Type	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller

REAR AXLE SPECIFICATIONS

Regular/Super/ Crew Cab Chassis Series/Model

	47A	47B	47C	47D
Make	International	International	Dana/Spicer	Dana/Spicer
Max. Rat. @ Ground (lbs.)	13,500	15,500	17,500	17,500
Type	Single	Single	Single	2-Speed
Housing	— Type	Fabricated	Fabricated	Fabricated
Lubricant Capacity (pt.)	24.5	24.5	28.0	35.0
Wheel Bearings	— Type	Tapered	Tapered	Tapered
Gears	— Type	Hypoid	Hypoid	Spiral Bevel
Ring Gear	— Pitch Diameter (in.)	14.17	14.17	15.55
Axle Shaft	— Minimum Diameter (in.)	1.84	1.84	2.00
	— No. of Splines (Hub End)	36	36	39

Regular/Super/ Crew Cab Chassis Series/Model

	47F	47E	47G	47H
Make	Dana/Spicer			
Max. Rat. @ Ground (lbs.)	19,000	19,000	21,000	21,000
Type	Single	2-Speed	Single	Single
Housing	— Type	Fabricated	Fabricated	Fabricated
Lubricant Capacity (pt.)	28.0	35.0	28.0	28.0
Wheel Bearings	— Type	Tapered	Tapered	Tapered
Gears	— Type	Hypoid	Spiral Bevel	Hypoid
Ring Gear	— Pitch Diameter (in.)	14.79–15.55	17.00	14.79–15.55
Differential	— Type			Driver-controlled lock
Axle Shaft	— Minimum Diameter (in.)	2.00	1.84	2.00
	— No. of Splines (Hub End)	39	39	39

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

REAR AXLE SPECIFICATIONS cont'd

Regular/Super/ Crew Cab Chassis Series/Model	47J	47K	47L	47M
Make	Spicer	Dana/Spicer	Spicer	Spicer
Max. Rat. @ Ground (lbs.)	21,000	23,000	23,000	23,000
Type	2-Speed	Single	Single	2-Speed
Housing — Type	Fabricated	Fabricated	Fabricated	Fabricated
Lubricant Capacity (pt.)	35.0	39.0	39.0	37.0
Wheel Bearings — Type	Tapered	Tapered	Tapered	Tapered
Gears — Type	Hypoid	Hypoid	Hypoid	Hypoid
Ring Gear — Pitch Diameter (in.)	17.00	16.91-17.25	16.91-17.25	18.00
Differential — Type			Driver-controlled Diff. Lock	
Axle Shaft — Minimum Diameter (in.)	1.84	2.06	2.06	2.31
— No. of Splines (Hub End)	39	44	36	36

Brakes

HYDRAULIC BRAKE EQUIPMENT SPECIFICATIONS — FRONT/REAR DISC

Type	Axle (lbs.)	Rotor Dia. (in.) OD Thickness	Lining Thickness (in.)	Caliper Piston No. Dia.	Lining Area Per Axle/Wheel (sq. in.)	Total Swept Area Per Axle (sq. in.)
Front	8,500	15.00 x 1.44	.49	2/66mm (2.6")	41.7	41.7
	10,000/ 12,000	15.00 x 1.44	.74	2/73mm (2.87")	41.7	41.7
Rear	13,500/ 15,500	15.00 x 1.44	.49	2/66mm (2.60")	41.7	83.4
	17,500/ 19,000/ 21,000	15.00 x 1.44	.74	2/73mm (2.87")	41.7	83.4

AIR BRAKE EQUIPMENT SPECIFICATIONS — FRONT DRUM

Type	Axle (lbs.)	Drum Size Dia. x Width (in.)	Lining Thickness (in.)	Area Per Axle (sq. in.)	Chamber Diaphragm Area (sq. in.)	Dust Shield
Meritor/Q-Plus S-Cam	8,500	15.00 x 4.00	.73	230	20	Removable
	10,000/ 12,000/ 13,200	15.00 x 4.00	.73	230	20	Removable

AIR BRAKE EQUIPMENT SPECIFICATIONS — REAR DRUM

Type	Axle (lbs.)	Drum Size Dia. x Width (in.)	Lining Thickness (in.)	Area Per Axle (sq. in.)	Chamber Diaphragm Area (sq. in.)	Dust Shield
Meritor/Q-Plus S-Cam	17,500	15.00 x 8.63	.85	440	30	Removable
	19,000/ 21,000/ 23,200	16.50 x 7.00	.85	440	30	Removable

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

HYDRAULIC BRAKE MASTER CYLINDER SPECIFICATIONS

Type	Model/Series	Piston Dia. (in.)	Stroke (in.)	Fluid Displacement Ratio (Prim/Sec)	Nominal Displacement (Prim/Sec) (cu. in.)
Dual-system	All	1.75	2.25	60 Rear/40 Front	3.08/2.04

HYDRAULIC BRAKE BOOSTER SPECIFICATIONS

Type	Model/Series	Mounting	Booster Stroke (in.)
Bendix/Hydromax II	All	To Cowl with Master Cylinder	2.468

AIR COMPRESSOR SPECIFICATIONS

Make/Mode	Compressor Size (Bore x Stroke) (in.)	Cooling	Lubrication	Drive
Bendix Tu-Flo, 2-cylinder	2.780 x 1.580	Water	Engine Oil	Gear
Cummins	2.953 x 2.205	Water	Engine Oil	Gear

AIR BRAKE AIR DRYER SPECIFICATIONS

Make/Model	Dimensions Height x Diam. (in.)	Weight	Remarks
Bendix/AD-IP	12.0 x 8.0	24 lbs.	Heated, Internal Purge

AIR BRAKE SLACK ADJUSTER SPECIFICATIONS

Axle	Make	Description
Front and Rear	Meritor	5.5" length

Bumpers

BUMPER SPECIFICATIONS

Trim Level	Size	Material	Finish
XL	Full-width	0.1875" thick steel	Painted, Dark Shadow Grey
XLT	Full-width	0.1875" thick steel	Plated, Chrome

Cooling Systems

COOLING SYSTEM SPECIFICATIONS

Engine	Trans.	Radiator Area (sq. in.)	Core Thickness	Total Number of Tubes	Fins Per Inch	System Capacity Qts. (liters)	Fan Blades	Blade Dia. (in.)	Clutch Type
Power Stroke® 6.0L All	Auto	516	2.2	128	10	27.2 (25.7)	8	25.0	Viscous
Cummins or Caterpillar w/o Fixed Grille	All	516	2.2	128	16	30.0 (28.4)	9	26.0	Viscous
Cummins or Caterpillar w/ Fixed Grille	All	646	2.2	110	15	24.4 (23.1)	9	26.0	Viscous

AIR CONDITIONING SPECIFICATIONS

Make	Refrigerant	Compressor	Condenser Location	Evaporator Location
Ford	R-134A	Sanden	Radiator Mounted	RH Under Instrument Panel

HEATER AND DEFROSTER SPECIFICATIONS

Make	Blower Motor	Heater Core Location	Air Intake	Water Shutoff to Heat
Ford	3-Speed, Wired to Ignition	In-Cab, RH Side	Fresh Air; Top of Cowl	None

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

Fuel System FUEL SYSTEM DATA

Engine	Injection Method	Fuel Pump/Location	Fuel Filter/Location	Air Cleaner
Power Stroke® 6.0L	Digital Direct, Electrical and High-Pressure Oil	Mechanical/Engine Mounted	Canister/Top of Engine	Dry Type
Cummins 5.9L	Direct, High-Pressure Pump	Mechanical/Engine Mounted	Spin-on/Cylinder Head	Dry Type
Caterpillar 7.2L	Direct, High-Pressure Pump	Mechanical/Engine Mounted	Spin-on/Cylinder Head	Dry Type

Steering STEERING SPECIFICATIONS

Cab Style	Wheelbase	Type	Gear Ratio	Pro Loader with Kick-up Frame Turning Radius w/Bumper		F-650 Dock Height & Pro Loader w/straight Frame Turning Radius w/Bumper		F-750 Turning Radius w/Bumper	
				To Curb	Clearance	To Curb	Clearance	To Curb	Clearance
Regular Cab	134	Integral	20.4:1	20 ft. 1 in.	21 ft. 5 in.				
	146					21 ft. 6 in.	22 ft. 10 in.	20 ft. 11 in.	22 ft. 4 in.
	158			23 ft. 1 in.	24 ft. 5 in.	23 ft. 0 in.	24 ft. 4 in.	22 ft. 5 in.	23 ft. 9 in.
	176					25 ft. 3 in.	26 ft. 8 in.	24 ft. 7 in.	26 ft. 0 in.
	182			26 ft. 1 in.	27 ft. 6 in.	26 ft. 0 in.	27 ft. 5 in.	25 ft. 4 in.	26 ft. 9 in.
	194			27 ft. 7 in.	29 ft. 0 in.	27 ft. 6 in.	28 ft. 11 in.	26 ft. 10 in.	28 ft. 2 in.
	200					28 ft. 3 in.	29 ft. 8 in.	27 ft. 6 in.	28 ft. 11 in.
	212					28 ft. 6 in.	29 ft. 10 in.	29 ft. 0 in.	30 ft. 5 in.
	218			29 ft. 3 in.	30 ft. 8 in.	29 ft. 2 in.	30 ft. 7 in.	29 ft. 9 in.	31 ft. 1 in.
	224					29 ft. 11 in.	31 ft. 4 in.	29 ft. 6 in.	30 ft. 11 in.
	230					30 ft. 8 in.	32 ft. 0 in.	30 ft. 3 in.	31 ft. 8 in.
	242			32 ft. 2 in.	33 ft. 6 in.	32 ft. 1 in.	33 ft. 5 in.	31 ft. 8 in.	33 ft. 1 in.
260					34 ft. 3 in.	35 ft. 7 in.	33 ft. 10 in.	35 ft. 2 in.	
SuperCab	155			22 ft. 8 in.	24 ft. 1 in.				
	167					24 ft. 2 in.	25 ft. 6 in.	23 ft. 6 in.	24 ft. 11 in.
	179			25 ft. 8 in.	27 ft. 1 in.	25 ft. 8 in.	27 ft. 8 in.	25 ft. 0 in.	26 ft. 4 in.
	197					27 ft. 11 in.	29 ft. 3 in.	27 ft. 2 in.	28 ft. 7 in.
	203			28 ft. 9 in.	30 ft. 1 in.	28 ft. 8 in.	30 ft. 0 in.	27 ft. 11 in.	29 ft. 3 in.
	215					28 ft. 10 in.	30 ft. 3 in.	29 ft. 4 in.	30 ft. 9 in.
	221					29 ft. 7 in.	30 ft. 11 in.	29 ft. 2 in.	30 ft. 7 in.
	233					31 ft. 0 in.	32 ft. 5 in.	30 ft. 7 in.	32 ft. 0 in.
	239			31 ft. 9 in.	33 ft. 2 in.	31 ft. 9 in.	33 ft. 1 in.	31 ft. 4 in.	32 ft. 8 in.
	245					32 ft. 5 in.	33 ft. 10 in.	32 ft. 0 in.	33 ft. 5 in.
	251					33 ft. 2 in.	34 ft. 6 in.	32 ft. 9 in.	34 ft. 1 in.
	263					34 ft. 7 in.	36 ft. 0 in.	34 ft. 2 in.	35 ft. 7 in.
281					36 ft. 9 in.	38 ft. 2 in.			
Crew Cab	170			24 ft. 7 in.	26 ft. 0 in.				
	182					26 ft. 0 in.	27 ft. 5 in.	25 ft. 4 in.	26 ft. 9 in.
	194			27 ft. 7 in.	29 ft. 0 in.	27 ft. 6 in.	28 ft. 11 in.	26 ft. 10 in.	28 ft. 2 in.
	212					28 ft. 2 in.	29 ft. 10 in.	29 ft. 0 in.	30 ft. 5 in.
	218			29 ft. 3 in.	30 ft. 8 in.	29 ft. 2 in.	30 ft. 7 in.	29 ft. 9 in.	31 ft. 1 in.
	230					30 ft. 8 in.	32 ft. 0 in.	30 ft. 3 in.	31 ft. 8 in.
	236					31 ft. 4 in.	32 ft. 9 in.	31 ft. 0 in.	32 ft. 4 in.
	248					32 ft. 9 in.	34 ft. 2 in.	32 ft. 5 in.	33 ft. 9 in.
	254			33 ft. 7 in.	35 ft. 0 in.	33 ft. 6 in.	34 ft. 11 in.	33 ft. 1 in.	34 ft. 6 in.
	260					34 ft. 3 in.	35 ft. 7 in.	33 ft. 10 in.	35 ft. 2 in.
	266					34 ft. 11 in.	36 ft. 4 in.	34 ft. 6 in.	34 ft. 11 in.
	278					36 ft. 5 in.	37 ft. 9 in.		

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

Steering cont'd POWER STEERING PUMP SPECIFICATIONS

Engine	Manufacturer/Model	Reservoir Capacity (max.)	Pump Drive
All	LUK VT-73	1 U.S. Quart	Gear, Direct

Suspensions FRAME SPECIFICATIONS

Frame Order Code	Type	Dimensions D x W x Thickness (inches)	Yield Strength (psi)	Material (Notes)	Section Modulus (cu. in.)	Resisting Bending Moment (in.-lb.)
537	Straight Channel Side Rail with Kick-Up at Rear Suspension Rearward ⁽¹⁾	9.125 x 3.062 x 0.312	80,000	A	10.74	859,200
533	Straight Channel Side Rail	9.125 x 3.062 x 0.312	80,000	A	10.74 ⁽¹⁾	859,200
534	Straight Channel Side Rail	10.125 x 3.062 x 0.312	50,000	A	12.64	632,000
535	Straight Channel Side Rail	10.250 x 3.062 x 0.375	80,000	A	15.14	1,211,200
536	Straight Channel Side Rail	10.125 x 3.580 x 0.312	120,000	B	14.18	1,701,600
538	Straight Channel Side Rail	10.250 x 3.610 x 0.375	120,000	B	16.98	2,037,600
539	Straight Channel Side Rail	10.375 x 3.705 x 0.438	120,000	B	20.11	2,413,200
530	Straight Channel Side Rail — Full Channel Outer "C" Channel Reinforcement	10.813 x 3.892 x 0.312	120,000	B	29.84 ⁽²⁾	3,580,800

(1) Kick-up rail section is 6.50" in depth.

(2) Section Modulus value includes base frame rail, code 536.

Notes:

A = High-Strength, Low-Alloy Steel

B = Heat Treated Alloy Steel

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

SHOCK ABSORBER SPECIFICATIONS — FRONT ONLY

Model	Wheelbase (in.)	Usage	Front		
			No. Used	Piston Dia. (in.)	Type
All	All	Std.	2	1.375 (F-750 S 1.75)	Double-Acting

SHOCK ABSORBER SPECIFICATIONS — REAR ONLY

Model	Wheelbase (in.)	Usage	Rear		
			No. Used	Piston Dia. (in.)	Type
All	All	Std.	2	1.75	Double-Acting

SPRING SPECIFICATIONS — FRONT LEAF

Series/Model	Combined Rating @ Ground (lbs.)	Number of Leaves	Total Thickness @ Pad (in.)	Active Length (in.) x Width (in.)	Deflection Rate (installed) (lb./in.)
All	8,500	2	2.44	54.0 x 3.0	1100
	10,000	2	2.65	54.0 x 4.0	1375
	12,000	2	2.65	54.0 x 4.0	1560
	13,200	2	2.70	54.0 x 4.0	2175

SPRING SPECIFICATIONS — REAR LEAF

Model	Combined Rating @ Ground (lbs.)	No. of Leaves	Total Pad Thickness (in.)	Deflection Rate (installed) (lb./in.)
All	13,500	9	4.7	2600
	15,500	10	4.8	2900
	18,500	10	6.3	3600
	15,500 (includes 4500 lb. Auxiliary Rubber Spring)	10	4.8	2900
	18,500 (includes 4500 lb. Auxiliary Rubber Spring)	10	6.3	3600
	20,000 (includes 4500 lb. Auxiliary Rubber Spring)	11	6.3	3800
	23,500 (includes 4500 lb. Auxiliary Rubber Spring)	12	6.6	4400

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

Tires and Wheels TIRE SPECIFICATIONS

Size			Wheel Position	Rim Width (in.)	Maximum Inflation Pressure (psi)	Maximum Load Capacity by Axle (lbs.) (front/rear)	Revolutions Per Mile @ 45 mph
225/70R19.5F	Goodyear	G159	All Wheel	6.75	90/110	7280/13,660	644
		G647	Steering	6.75	90/110	7280	
235/80R22.5	Michelin	XZE	All Wheel	7.50	90/90	9350/17,640	554
245/70R19.5F	Goodyear	G124	Drive Axle	6.75/7.50	90/90	8160/15,440	626
	Goodyear	G159	All Wheel				629
	Michelin	XZE	All Wheel				621
245/70R19.5G	Goodyear	G124	Drive Axle	6.75/7.50	110/90	9090/17,500	629
		G159	All Wheel				629
245/70R19.5H	Michelin	XDE M/S	All Wheel	6.75/7.50	110/90	9880/18,760	614
		XZE					619
245/75R22.5G	Goodyear	G124	Drive Axle	7.50	110/90	9350/17,640	557
		G159	All Wheel				561
255/80R22.5G	Michelin	XZE	All Wheel	7.50/8.25	90/90	10,410/19,240	538
265/70R19.5G	Goodyear	G159	All Wheel	6.75/7.50	110/90	10,710/19,440	606
265/75R22.5G	Goodyear	G124	Drive Axle	7.50/8.25	110/90	10,410/19,220	537
		G159	All Wheel				
275/80R22.5G	Michelin	XDA-2	Drive Axle	7.50/8.25	110/90	12,350/22,700	515
		XD4					509
		XZA-1+	Steering				516
		XZA-2					518
		XZE					516
295/75R22.5G	Goodyear	G159	All Wheel	8.25	110/90	12,350/22,700	514
		G338 IAD	Drive Axle				512
		G372 LHD					508
		G397 LS	Drive Axle				518
295/80R22.5H	Goodyear	G391	All Wheel	8.25	125/125	15,660/27,760	503
9R22.5F	Goodyear	G124	Drive Axle	7.50	110/90	9000/15,800	538
		G159	All Wheel				541
10R22.5F	Goodyear	G124	Drive Axle	7.50	110/90	10,300/18,960	514
		G159	All Wheel				518
		G186					514
	Michelin	XDE M/S	All Wheel				520
		XZE					
10R22.5G	Goodyear	G124	Drive Axle	7.50	110/90	11,360/20,320	514
		G159	All Wheel				518
	Michelin	XDE M/S					515
		XZE					520
11R22.5G	Goodyear	G159	All Wheel	7.50/8.25	110/90	12,350/23,000	501
		G273 LHD	Drive Axle				497
		G328					487
		G362					497
		G397 LHS	All Wheel				503
	Michelin	XDA-2	Drive Axle	499			
		XDE M/S	All Wheel	498			
		XDA-HT	Drive Axle	500			
		XDN					
		XZA-1+	All Wheel	501			
		XZA-2					501
		XZE					
11R22.5H	Goodyear	G159	All Wheel	7.50/8.25	110/90	13,220/23,200	501
		G177	Drive Axle				493
		G186	All Wheel				497
	G244						
	G286						
	Michelin	XZE					496
						497	

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

WHEEL SPECIFICATIONS

Wheel Type	Position	Wheel Size	No. of Studs	Bolt Circle mm (in.)
Steel, Painted White	Front	19.5" x 6.75"	8	275 (10.83)
Steel, Painted White	Rear	19.5" x 6.75"	8	275 (10.83)
Aluminum, Polished	Front	19.5" x 7.50"	8	275 (10.83)
Aluminum, Polished	Rear	19.5" x 7.50"	8	275 (10.83)
Steel, Painted White	Front	19.5" x 7.50"	10	285.5 (11.25)
Steel, Painted White	Rear	19.5" x 7.50"	10	285.5 (11.25)
Aluminum, Polished	Front	19.5" x 7.50"	10	285.5 (11.25)
Aluminum, Polished	Rear	19.5" x 7.50"	10	285.5 (11.25)
Steel, Painted White	Front	22.5" x 7.5"	10	285.5 (11.25)
Steel, Painted White	Rear	22.5" x 7.5"	10	285.5 (11.25)
Steel, Painted White	Front	22.5" x 8.25"	10	285.5 (11.25)
Steel, Painted White	Rear	22.5" x 8.25"	10	285.5 (11.25)
Aluminum, Polished	Front	22.5" x 8.25"	10	285.5 (11.25)
Aluminum, Polished	Rear	22.5" x 8.25"	10	285.5 (11.25)

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

Transmission MANUAL TRANSMISSION SPECIFICATIONS

Make/Type	Eaton FS-5205A 5-Speed Direct Ratio	Eaton FS-5406A 6-Speed Direct	Eaton FS-6406A 6-Speed Direct
Torque Capacity (lb.-ft.)	520	560	660
Ratios (to 1):			
1st	7.52	9.01	9.01
2nd	4.35	5.27	5.27
3rd	2.54	3.22	3.22
4th	1.52	2.04	2.04
5th	1.00	1.36	1.36
6th		1.00	1.00
Reverse	6.27	8.63	8.63
Lubricant Capacity (pt.)	12.0	19.5	19.5
Synchronizers	2nd, 3rd, 4th, 5th	All Forward Gears	All Forward Gears
Gears: Material	Carburized Steel	Carburized Steel	Carburized Steel
Type	— Helical	Low, 1st, 2nd, 3rd, 4th, 5th & Reverse	Low, 1st, 2nd, 3rd, 4th, 5th, 6th & Reverse
Bearings:			
Mainshaft	— Front	Tapered Roller	Tapered Roller
	— Rear	Tapered Roller	Ball Bearing
Countershaft	— Front	Tapered Roller	Tapered Roller
	— Rear	Tapered Roller	Tapered Roller
Mainshaft Gear		Needle Rollers	Needle Rollers
Reverse Idler Gear		Needle Rollers	Needle Rollers
Power Take-Off Data:			
Opening	SAE 6-Bolt, LH/RH Sides	SAE 6-Bolt, LH/RH Sides	SAE 6-Bolt, LH/RH Sides
PTO Speed % of Engine	R-46, L-44	52	52
Pitch line velocity @ 1000 engine rpm (ft./min.)	LH-661/RH-374	882	
RPM @ 1000 engine rpm	LH-435/RH-460	520	520
Diametral pitch	LH-6.1/RH-7.0	6.35	6.35

Make/ Type	Eaton F50-8406A 6-Speed Direct	TTC Spicer ES56-7B 7-Speed Direct	TTC Spicer ES066-7B 7-Speed Overdrive
Torque Capacity (lb.-ft.)	TBD	560	660
Ratios (to 1):			
Low	TBD	10.09	7.48
1st	TBD	7.52	4.43
2nd	TBD	3.72	2.76
3rd	TBD	2.56	1.90
4th	TBD	1.81	1.34
5th	TBD	1.35	1.00
6th	TBD	1.00	.74
Reverse	TBD	8.99	6.67
Lubricant Capacity (pt.)	TBD	22.0	22.0
Synchronizers	TBD	All Forward Gears	All Forward Gears
Gears: Material	TBD	Carburized Steel	Carburized Steel
Type	— Helical	TBD	All helical
Bearings:			
Mainshaft	— Front	TBD	Tapered Roller
	— Rear	TBD	Tapered Roller
Countershaft	— Front	TBD	Tapered Roller
	— Rear	TBD	Tapered Roller
Mainshaft Gear		TBD	Tapered Roller
Reverse Idler Gear		TBD	Tapered Roller
Power Take-Off Data:			
Opening	TBD		
PTO Speed % of Engine	TBD		
rpm @ 1000 Engine rpm	TBD		
Diametral Pitch	TBD		

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

AUTOMATIC TRANSMISSION SPECIFICATIONS

Make/Type	Allison 2200 5-Speed (w/park pawl)	Allison 2500 5-Speed
Torque Capacity (lb.-ft.) Net	550	TBD
Ratios (to 1):		
1st	3.10	3.51
2nd	1.81	1.90
3rd	1.41	1.44
4th	1.00	1.00
5th	0.71	0.74
Reverse	4.49	5.09
Gears Type	TBD	
Fluid Capacity (pts.)	38	
Oil system; Sump		
Filter	Spin-on	
Power Take-Off Data:	Converter driven	
Opening	SAE 6-bolt RH	TBD
Gear Ratio	N/A	
Rating	250 lb.-ft.	
Make/Type	Allison 3000 5-Speed	Allison 3000 6-Speed
Torque Capacity (lb.-ft.) Net	1100	
Ratios (to 1):		
1st	3.49	
2nd	1.86	
3rd	1.41	
4th	1.00	
5th	0.75	
6th	—	0.65
Reverse	5.03	
Gears Type	TBD	
Fluid Capacity (pts.)	58	
Oil system; Sump		
Filter	Integral	
Power Take-Off Data:	TBD	
Opening	TBD	
Gear Ratio	TBD	
Rating	TBD	

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

AUTOMATIC TRANSMISSION SPECIFICATIONS cont'd

Make/Type	Allison 3200 6-Speed	Allison 3500 5-Speed	Allison 3500 6-Speed	Allison B-300 5-speed	Allison B-400 5-speed
Torque Capacity (lb.-ft.) Net	TBD	800		1100	
Ratios (to 1):					
1st	TBD	4.59		3.49	
2nd	TBD	2.25		1.86	
3rd	TBD	1.54		1.41	
4th	TBD	1.00			
5th	TBD	0.75			
6th	TBD	0.65			
Reverse	TBD	5.00		5.03	
Gears Type					
Fluid Capacity (pts.)	TBD	58			
Oil system; Sump					
Filter	TBD	Integral			
Power Take-Off Data:	TBD	TBD	TBD	TBD	TBD
Opening	TBD	TBD	TBD	TBD	TBD
Gear Ratio	TBD	TBD	TBD	TBD	TBD
Rating	TBD	TBD	TBD	TBD	TBD

CLUTCH SPECIFICATIONS

Type	Eaton Fuller 1401 1-plate	Eaton Fuller 1402 2-plate
Linkage Adj. Type	"Solo" Hydraulic Pull-Type, Self-Adj.	
Disc — Type	Segmented With Coaxial Spring Damper	
Facing Material	Ceramic	
Lining Material	N/A	
Outside Diameter (approx. in.)	13.75	
Lining Thickness	0.181	
Facing Area	24.0 sq. in.	66 sq. in.
Flywheel type	Flat	
Release Bearing - Race	Lube Fitting Provided	
Release Bearing - Sleeve	Lube for Life	
Total Pressure Plate Load (lb.) — Make	3000	2000
Max. Clutch Torque (lb.-ft.)	620	860

2005 F-650/F-750 Super Duty Chassis Cabs

Technical Specifications cont'd

F-650/F-750 SD CHASSIS CABS

SD Chassis Cabs

UNIVERSAL JOINT SPECIFICATIONS

Transmission	U-Joint	Power Stroke® 6.0L	Caterpillar 7.2L	Cummins 5.9L ISB
Allison 2200	SPL-100	200–230 hp	190–230 hp	200–230 hp
Allison 2500	SPL-100	200–230 hp	190–230 hp	200–230 hp
Allison 3000	SPL-100		210 hp	—
	SPL-140		230–300 hp	245–260 hp
Allison 3200	SPL-140		300 hp	—
Allison 3500	SPL-100		210 hp	—
	SPL-140		230–300 hp	245–260 hp
Fuller FS-5205A	SPL-100	200 hp	190–210 hp	185–215 hp
Fuller FS-5406A	SPL-100	200–230 hp	190–210 hp	185–230 hp
Fuller FS-6406A	SPL-100	215 hp	—	—
	SPL-100	230 hp	210–250 hp	245–260 hp
Spicer ES56-7B	SPL-100	215–230 hp	207–210 hp	185–230 hp
Spicer ES-066-7B	SPL-140	215–230 hp	210–250 hp	245–260 hp

Windshield Wipers

ARM AND BLADE SPECIFICATIONS

Make	Arm Length	Blade Length
Trico	21.5" LH	19.68"

F-650/F-750 MODIFICATION CENTER

This page is about:

- Manning Equipment, Inc.
- How to Use This Section

2005 F-650/F-750 Modification Center

Manning Equipment, Inc., Modification Center

Manning Equipment, Inc. is an authorized Ford Super Duty bailment pool with ship-through capabilities for F-250 through F-750 trucks. Manning has manufacturing, installation and distribution facilities in Louisville, Kentucky and San Antonio, Texas.

All sales will be handled through the Manning Web site at www.e-manning.com, or call (800) 876-8768 and ask for Mod Center Sales.

The Ship Thru code for the Texas Modification Center plant is: **31A D9V**.

How to Use This Section

Use this section of your 2005 Truck Source Book with your F-650/F-750 Super Duty Chassis Cab customers who need to order a truck with special equipment and/or body.

The section includes:

- A Manning Equipment Mod Center Web Site Procedure Guide to walk you through the steps to place an online order

- How to submit an inquiry to the Web site
- How to place an order or inquiry by phone
- A detailed equipment list, complete with the sales codes required to place an order

Use these features lists, visual aids and charts to make sure your customer is choosing the right vehicle for his or her needs.



2005 F-650/F-750 Modification Center

F-650/F-750 MODIFICATION CENTER

This page is about:

Manning Equipment Modification Center
Web Site Procedure Guide
To Submit an Inquiry
If You Do Not Have Internet Access

F-650/F-750
Super Duty Chassis Cabs

Manning Equipment Modification Center Web Site Procedure Guide

1. If you are **not registered**, log on to <http://www.e-manning.com>. Click on the "Register Here" button. Fill out the registration application and click on the "Submit" button. You now have access to the "Chassis Pool" and "Mod Center" tabs.

Your dealership will be checked to see if you currently have an account with Manning Equipment. If so, you will be given full access to all of the features including the equipment "catalog" tab. If your dealership does not have an account, you will be contacted to fill out a credit application before all features will be available to you. You **will be given immediate access** to the Mod Center ordering guide. Proceed to #3.
2. If you are **already registered**, log on to <http://www.e-manning.com>. You now have access to the "Mod Center" tab. Proceed to #3.
3. Click on the "Mod Center" tab. Click on the "Chassis Specifications" button to fill out the chassis specification form that will describe the chassis you will order from Ford. All fields are required. Click the "Submit Chassis Specs" button. A summary page appears that describes the chassis specifications you have submitted.

Next, choose the appropriate sales code group (for example, Front Axle Equipment) from the left margin and click. An expanded offering of sales codes with descriptions, exceptions and prices will be displayed. **Please note the restrictions in red.** Check the appropriate boxes and click the "add sales codes" button.

Repeat selecting sales code groups until all desired equipment has been selected.

When you have finished adding sales codes, move to the top of the page and select "Save Quote" to receive a quotation or "Place Order" to place an order.

A quote will display the equipment you have selected, totaled and assigned a quotation number. This will be archived in your personal "quote history" tab for future action.

The "Place Order" button will display the chassis specifications and sales codes you have selected. Enter a Factory Order number for each truck and your valid purchase order number. Click the "Confirm" button. Read the "Manning Equipment Purchase Terms." Check each box and click "I Accept." You will now view an order with a unique number assigned. This order will be archived in your personal "Order History" tab for future action. The order has now been transmitted to Manning Equipment Internet Sales and will be acted upon. The status of your order can be viewed by clicking on the "Order History" tab at the Main Menu. Each order will show the current status. The order status will change when acted upon at Manning Equipment. You may also click on the order to view the order content.

To Submit an Inquiry

To inquire about an option you do not see listed, click the "Inquiry" button at the top of the screen. A page will appear with any previous inquiries. To submit a new inquiry, click the "New Inquiry" button. Select your chassis specifications from the drop-down boxes (each box must have a selection), and click the "Submit Chassis Specs" button. A page appears with your chassis specs and a text box. Enter a description of the

equipment or modification you need in the text box. Please be as descriptive as possible and include the equipment manufacturer's name, model numbers and installation location if you have them. When finished, click the "Submit" button. The inquiry has now been transmitted to Manning Equipment and is displayed on the inquiry screen. A Manning Equipment Sales Engineer will respond to you with pricing.

If You Do Not Have Internet Access

Call Manning Equipment at (800) 876-8768 and ask for Mod Center Sales. A Sales Engineer will assist you with pricing or inquiries.

F-650/F-750 MODIFICATION CENTER

2005 F-650/F-750 Modification Center

This page is about:

- Front Axle Equipment
- Front Suspension
- Rear Axle Equipment
- Rear Suspension

Sales Code	Description
10	Front Axle Equipment
10 MC 0001.1	Front Drive Axle, Manual Transmission Only, 9-10K Cap, Hyd Brakes, 2-speed Air Shift Transfer Case, 12-volt Air Compressor with Tank, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. NA with automatic transmissions. 4. Available with any manual transmission. 5. NA with 2-speed axle.</i>
10 MC 0001.2	Front Drive Axle, Automatic Transmission Only, 9-10K Cap, Hyd Brakes, 2-speed Air Shift Transfer Case, 12-volt Air Compressor with Tank, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. Requires "Delete 6th Gear Option" for All MD Series Transmissions. Option is not included. 4. NA with 2-speed rear axle.</i>
10 MC 0002.1	Front Drive Axle, Manual Transmission Only, 9-12K Cap, Air Brakes, 2-speed Air Shift Transfer Case, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. NA with automatic transmissions. 4. Available with any manual transmission.</i>
10 MC 0002.2	Front Drive Axle, Automatic Transmission Only, 9-12K Cap, Air Brakes, 2-speed Air Shift Transfer Case, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. Requires "Delete 6th Gear Option" for All MD Series Transmissions. Option is not included. 4. NA with 2-speed rear axle.</i>

Sales Code	Description
10 MC 0003.1	Front Drive Axle, Manual Transmission Only, 12K Cap, Air Brakes, 2-speed Air Shift Transfer Case, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: ** Required for severe duty usage such as "SNOWPLOW" applications. 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. NA with automatic transmissions.</i>
10 MC 0003.2	Front Drive Axle, Automatic Transmission Only, 12K Cap, Air Brakes, 2-speed Air Shift Transfer Case, Chassis Step Frame "Maintains OEM Frame Height Behind the Cab" <i>RESTRICTIONS: ** Required for severe duty usage such as "SNOWPLOW" applications. 1. Drive axle rating will be the same as OEM GAWR. 2. Requires 24" of additional wheelbase. 3. Requires "Delete 6th Gear Option" for All MD Series transmissions. Option is not included.</i>
11	Front Suspension
11 MC 0001.1	2,000-lb. Front Spring Buildup
20	Rear Axle Equipment
20 MC 0001.1	No Spin Differential, 15K rear axle
20 MC 0002.1	No Spin Differential, 17.5K rear axle
20 MC 0003.1	No Spin Differential, 21K rear axle
20 MC 0004.1	No Spin Differential, 23K rear axle
21	Rear Suspension
21 MC 0000.1	Air Ride Rear Suspension, 17.5K rear axle with leveling valve
21 MC 0001.1	Air Ride Rear Suspension, 19K rear axle with leveling valve <i>RESTRICTIONS: Requires air brakes.</i>
21 MC 0002.1	Air Ride Rear Suspension, 21K rear axle with leveling valve <i>RESTRICTIONS: Requires air brakes.</i>

2005 F-650/F-750 Modification Center

F-650/F-750 MODIFICATION CENTER

This page is about:

Rear Suspension cont'd
Cab Equipment Interior
Seating

F-650/F-750
Super Duty Chassis Cabs

Sales Code	Description
21	Rear Suspension cont'd
21 MC 0003.1	Air Ride Rear Suspension, 23K rear axle with Leveling Valve <i>RESTRICTIONS: Requires air brakes.</i>
21 MC 0004.1	Auxiliary Suspension, pusher axle, air ride air lift, 10-stud ISO wheel mount 20K capacity, in-cab controls, tires and wheels not included <i>RESTRICTIONS: Requires air brakes. Requires 30 or 33K GVWR. Requires 70" of clear frame rail for mounting.</i>
21 MC 0005.1	Auxiliary Suspension, tag axle, air ride, air lift, 10-stud ISO wheel mount 20K capacity, in-cab controls, tires and wheels not included <i>RESTRICTIONS: Requires air brakes. Requires 30 or 33K GVWR. Requires 70" of clear frame rail for mounting.</i>
21 MC 0006.1	Rear Spring Buildup. 2,000-lb. capacity 20K capacity, in-cab controls, tires and wheels not included
30	Cab Equipment Interior
30 MC 0001.1	Dual CB hot post, dash-mounted
30 MC 0003.1	Dome light with integral map light, ILO OEM dome light
30 MC 0004.1	Sliding Rear Window with manual ILO OEM dome light
31	Seating
31 MC 0001.1	Transfer driver seat to passenger side
31 MC 0002.1	Passenger seat, Hi-back, smooth vinyl National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0002.2	Driver seat, Hi-back, smooth vinyl National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>

Sales Code	Description
31 MC 0003.1	Passenger seat, Mid-back, smooth vinyl National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0003.2	Driver seat, Mid-back, smooth vinyl National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0004.1	Passenger seat, Hi-back, polyknit National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0004.2	Driver seat, Hi-back, polyknit National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0005.1	Passenger seat, Mid-back, polyknit National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0005.2	Driver seat, Mid-back, polyknit National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0006.1	Replace hand pump with seat-mounted air control valve, self-regulating, per seat <i>RESTRICTIONS: Requires air brakes.</i>
31 MC 0007.1	Passenger seat, Hi-back, cloth trim National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0007.2	Driver seat, Hi-back, cloth trim National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
31 MC 0008.1	Passenger seat, Mid-back, cloth trim National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>

TRUCK 4x4 OPERATIONS

2005 F-650/F-750 Modification Center

This page is about:

- Seating cont'd
- Cab Equipment Exterior
- Engine Equipment

Sales Code	Description
31	Seating cont'd
31 MC 0008.2	Driver seat, Mid-back, cloth trim National EZAIRE <i>RESTRICTIONS: Fabric is NOT an exact color match to OEM seat.</i>
40	Cab Equipment Exterior
40 MC 0001.1	Pull cable-type drain valve, air tank
40 MC 0002.1	Bug screen
40 MC 0003.1	Winter front, vinyl, removable
40 MC 0005.1	Mirrors, SS heated, both sides on OEM brackets
40 MC 0006.1	Mirrors, SS heated/lighted, both sides, on OEM brackets
40 MC 0007.1	Mirrors, SS heated/motorized both sides, on OEM brackets
40 MC 0008.1	Mirrors, SS heated/lighted/motorized both sides, on OEM brackets
40 MC 0009.1	Mirror, convex, fender-mounted curbside only
40 MC 0010.1	Mirror, convex, fender-mounted both sides
40 MC 0011.1	Exterior sun visor painted cab color
40 MC 0012.1	Air horn, cab-roof-mounted <i>RESTRICTIONS: Requires air brakes.</i>
40 MC 0013.1	Air horn mounted under hood <i>RESTRICTIONS: Requires air brakes.</i>
40 MC 0014.1	8" SS convex mirrors mounted under OEM mirrors
40 MC 0015.1	Spotlight, street side, door-mounted
40 MC 0015.2	Spotlight, curb side, door-mounted
40 MC 0016.1	Security alarm
40 MC 0020.1	Vent Visors, Regular Cab
40 MC 0021.1	Vent Visors, Extended Cab
40 MC 0021.2	Vent Visors, Crew Cab

Sales Code	Description
40 MC 0022.1	Rust-preventive treatment, Regular Cab
40 MC 0023.1	Rust-preventive treatment, Extended Cab
40 MC 0024.1	Rust-preventive treatment, Crew Cab
40 MC 0026.1	Rear axle mud flaps on B-25 brackets
40 MC 0027.1	Aluminum quarter fenders
40 MC 0028.1	Front axle mud flaps
40 MC 0030.1	Butterfly hood for the F-650/F-750 will consist of two 9"x15" access doors, one on each side of the hood. This will allow the operator to check fluid levels and service the fluid levels without opening the hood.
40 MC 0032.1	Stationary grille assembly. This option is offered by Ford online, but is limited to a specific truck model and engine combination. Our option will cover those truck and engine combinations not offered by Ford. The approximate size of the opening will be 21" H x 36" W.
50	Engine Equipment
50 MC 0001.1	Crankshaft-driven PTO adapter Cat 3126 up to 250 hp <i>RESTRICTIONS: Does NOT include radiator modification which may be required for drive-line clearance. Requires stationary grille. Requires front frame extension damper replacement required. 1210 Series drivelines.</i>
50 MC 0003.1	Air-restriction gauge, under-dash mounted
50 MC 0004.1	Engine hour meter, oil pressure activated
50 MC 0004.2	Engine hour meter, ignition switch activated
50 MC 0009.1	Spinner II external oil filter, 7.3L and 3126B frame-rail-mounted
50 MC 0009.2	Spinner II external oil filter, ISB frame-rail-mounted
50 MC 0010.1	Coolant filter and conditioner
50 MC 0011.1	Caterpillar ID Unit

2005 F-650/F-750 Modification Center

F-650/F-750 MODIFICATION CENTER

This page is about:

- Engine Equipment cont'd
- Exhaust Equipment
- Electrical
- Batteries
- Fuel Tanks and Equipment
- Transmission Equipment

Sales Code	Description
50	Engine Equipment cont'd
50 MC 0012.1	Relocate air dryer per specification
50 MC 0014.1	Block heater, Cummins ISB
50 MC 0015.1	Racor 325R heated fuel/water separator
51	Exhaust Equipment
51 MC 0002.1	Exhaust brake, air brake chassis <i>RESTRICTIONS: Requires air brakes.</i>
51 MC 0003.1	Exhaust brake, hydraulic brake chassis
51 MC 0004.2	Vertical exhaust, passenger side
60	Electrical
60 MC 0002.1	Auto reset circuit breakers, ILO fuses
60 MC 0003.1	Battery cutoff switch mounted inside cab
60 MC 0004.1	Relocate battery box to right side
60 MC 0005.1	200-amp alternator
60 MC 0005.2	Boost existing alternator to 160-amp output
60 MC 0006.1	Jump-start kit, 800-amp, polarized connector, 25' cables
60 MC 0007.1	Remote-mounted jump-start terminal connector, 25' cables
61	Batteries
61 MC 0001.1	1 Additional 96-amp-hr battery including battery box, frame-rail-mounted
70	Fuel Tanks and Equipment
70 MC 0001.1	Fuel heater, in-tank, Arctic Fox, single tank
70 MC 0001.2	Fuel heater, in-tank, Arctic Fox, dual tanks
70 MC 0002.1	Fuel heater, in-line, Racor ThermoLine, 12V
70 MC 0003.1	Fuel warmer, external tank-type, Webb W8791 with shutoff valves

Sales Code	Description
80	Transmission Equipment
80 MC 0001.1	Transmission oil temperature gauge, mounted under dash on bracket
80 MC 0002.1	Reprogram MD series ECU for special functions
80 MC 0003.1	High gear hold for AT series transmission
80 MC 0006.1	Delete 6th gear Allison MD series Transmission <i>RESTRICTIONS: Required for AWD conversion.</i>
80 MC 0007.1	Auxiliary Transmission Oil Cooler with 12-volt fan frame rail-mounted behind cab <i>RESTRICTIONS: Automatic transmission only.</i>
90	Chassis Equipment
90 MC 0001.1	Auxiliary air inlet with glad hand
90 MC 0002.1	Backup alarm, SA950, variable output 80 – 102 dba
90 MC 0003.1	Heated moisture ejector
90 MC 0004.1	Air pressure gauge in service line
90 MC 0005.1	Rear tow hooks, frame-rail-mounted, 26,000-lb. capacity
90 MC 0007.1	Pre-delivery service
90 MC 0008.1	Relocate air tanks per specification
90 MC 0011.1	Electric brake controller, digital
90 MC 0012.1	BW AD9 air dryer, frame-rail-mounted
91	Frames
91 MC 0001.1	Shorten wheelbase, reinforced frame slide rear suspension <i>RESTRICTIONS: AF will increase proportionally.</i>
91 MC 0006.1	Shorten wheelbase, single-channel frame, slide rear suspension <i>RESTRICTIONS: AF will increase proportionally.</i>

F-650/F-750 MODIFICATION CENTER

2005 F-650/F-750 Modification Center

This page is about:

- Frames cont'd
- Tires and Tire Equipment
- Tractor Equipment
- 5th Wheels

Sales Code	Description
91	Frames cont'd
91 MC 0007.1	Lengthen wheelbase 12"-24" single-channel frame, slide suspension <i>RESTRICTIONS: AF will decrease proportionally.</i>
91 MC 0008.1	Lengthen wheelbase 12"-24" reinforced frame, slide suspension <i>RESTRICTIONS: AF will decrease proportionally.</i>
91 MC 0009.1	Lengthen wheelbase 36"-50" single-channel frame, slide suspension <i>RESTRICTIONS: AF will decrease proportionally.</i>
91 MC 0010.1	Shorten AF length
91 MC 0011.1	Lengthen wheelbase 36"-50" reinforced frame, slide suspension <i>RESTRICTIONS: AF will decrease proportionally.</i>
100	Tires and Tire Equipment
100 MC 001.1	Paint, outer four wheels
100 MC 003.1	Simulators, SS, 22.5", 5HH set of 4
100 MC 004.1	Simulators, SS, 19.5", 5HH set of 4
100 MC 005.1	Hubometer, 265/70R19.5
100 MC 006.1	Hubometer, 10R and 11R22.5
100 MC 007.1	Hubometer, 215/75R17.5
100 MC 008.1	Spare tire and wheel, front, Lo-Profile 245/70R19.5G Goodyear G159
100 MC 008.2	Spare tire and wheel, rear, Lo-Profile 245/70R19.5G Goodyear G124
100 MC 009.1	Spare tire and wheel, front, 26K GVWR 10R22.5F Goodyear G159
100 MC 009.2	Spare tire and wheel, rear, 26K GVWR 10R22.5F Goodyear G124
100 MC 010.1	Spare tire and wheel, front, 30K GVWR 10R22.5G Goodyear G159

Sales Code	Description
100 MC 010.2	Spare tire and wheel, rear, 30K GVWR 10R22.5G Goodyear G124
100 MC 011.1	Spare tire and wheel, front, 33K GVWR 11R22.5G Goodyear G159
100 MC 011.2	Spare tire and wheel, rear, 33K GVWR 11R22.5G Goodyear G124
100 MC 012.1	Spare tire carrier, basket-type, frame-rail-mounted curbside, all tire sizes
100 MC 013.1	Aluminum wheels, 6 – 19.5" x 6.75", polished outside facing surfaces
100 MC 014.1	Aluminum wheels, 6 – 22.5" x 7.50", polished outside facing surfaces
100 MC 014.1	Aluminum wheels, 6 – 22.5" x 8.25", polished outside facing surfaces
110	Tractor Equipment
110 MC 001.1	Deck plate, steel open mesh, 24" x 32"
110 MC 002.1	Quarter fenders, poly, stub-mount
110 MC 002.2	Quarter fenders, aluminum, stub-mount
110 MC 002.3	Quarter fenders, stainless steel, stub-mount
110 MC 003.1	Pogo stick hose tender
110 MC 004.1	Rear mud flap brackets only, no flaps
110 MC 005.1	Rear mud flaps and brackets
110 MC 006.1	Taper rear frame ends
111	5th Wheels
111 MC 001.1	5th wheel Holland FW8, stationary angle mount, LH release, 48" – 50" height <i>RESTRICTIONS: Set 10" ahead of centerline.</i>
111 MC 002.1	5th wheel Fontaine, stationary angle mount, LH Release, 48" – 50" height <i>RESTRICTIONS: Set 10" ahead of centerline.</i>

2005 F-650/F-750 Modification Center

F-650/F-750 MODIFICATION CENTER

This page is about:

- Sleepers —
- Truck Bodies —
- Dumps —
- Stake and Platforms —

**F-650/F-750
Super Duty Chassis Cabs**

Sales Code	Description
113	Sleepers
113 MC 001.1	Sleeper, 36", heat and A/C slave unit, speakers and controls inside sleeper crawl-through opening, foam mattress, single-color paint <i>RESTRICTIONS: Requires 36" of additional CA. Requires A/C; individual seats are recommended.</i>
120	Truck Bodies
121	Dumps
121 MC 002.1	9' 4 cubic yard dump, NTEA CL 30 Hoist Tarp system, 24" cab shield <i>RESTRICTIONS: Requires 72" CA.</i>
121 MC 003.1	10' 5 cubic yard dump, NTEA CL 40 Hoist Tarp system, 24" cab shield <i>RESTRICTIONS: Requires 84" CA.</i>
121 MC 004.1	10' 7 cubic yard dump, NTEA CL 40 Hoist Tarp system, 24" cab shield <i>RESTRICTIONS: Requires 84" CA.</i>
121 MC 005.1	Air release tailgate assembly, air over electric in cab controls <i>RESTRICTIONS: Requires air brakes.</i>
122	Stake and Platforms
122 MC 001.1	Platform, 12' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 84" CA.</i>
122 MC 002.1	Platform, 14' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 108" CA.</i>
122 MC 003.1	Platform, 16' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 120" CA.</i>
122 MC 004.1	Platform, 18' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 138" CA.</i>

Sales Code	Description
122 MC 005.1	Platform, 20' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 150 – 156" CA.</i>
122 MC 006.1	Platform, 22' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 165" CA.</i>
122 MC 007.1	Platform, 24' wood floor, 42" bulkhead full-screen window, standard black <i>RESTRICTIONS: Requires 186" CA.</i>
122 MC 011.1	Platform, 12' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 84" CA.</i>
122 MC 012.1	Platform, 14' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 108" CA.</i>
122 MC 013.1	Platform, 16' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 120" CA.</i>
122 MC 014.1	Platform, 18' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 138" CA.</i>
122 MC 015.1	Platform, 20' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 150 – 156" CA.</i>
122 MC 016.1	Platform, 22' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 165" CA.</i>
122 MC 017.1	Platform, 24' smooth steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 186" CA.</i>
122 MC 021.1	Platform, 12' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 84" CA.</i>
122 MC 022.1	Platform, 14' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 108" CA.</i>

F-650/F-750 MODIFICATION CENTER

2005 F-650/F-750 Modification Center

This page is about:

- Stake and Platforms cont'd
- Maintenance Utility
- Dry and Refrigerated Vans

Sales Code	Description
122	Stake and Platforms cont'd
122 MC 023.1	Platform, 16' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 120" CA.</i>
122 MC 024.1	Platform, 18' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 138" CA.</i>
122 MC 025.1	Platform, 20' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 150 – 156" CA.</i>
122 MC 026.1	Platform, 22' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 165" CA.</i>
122 MC 027.1	Platform, 24' tread plate steel floor, 42" bulkhead, full-screen window, standard black <i>RESTRICTIONS: Requires 186" CA.</i>
122 MC 030.1	Stake racks, 12' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 031.1	Stake racks, 14' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 032.1	Stake racks, 16' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 033.1	Stake racks, 18' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 034.1	Stake racks, 20' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 035.1	Stake racks, 22' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 036.1	Stake racks, 24' x 42" steel sides, front, rear <i>RESTRICTIONS: Deletes the steel bulkhead.</i>
122 MC 040.1	Stake racks, 12' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
122 MC 041.1	Stake racks, 14' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>

Sales Code	Description
122 MC 042.1	Stake racks, 16' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
122 MC 043.1	Stake racks, 18' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
122 MC 044.1	Stake racks, 20' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
122 MC 045.1	Stake racks, 22' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
122 MC 046.1	Stake racks, 24' x 42" steel sides and rear only <i>RESTRICTIONS: Used with steel bulkhead.</i>
123	Maintenance Utility
123 MC 001.1	Maintenance utility body, 132", with rear bumper, painted cab color <i>RESTRICTIONS: Requires 84" CA.</i>
123 MC 002.1	Maintenance utility body, 150", with rear bumper, painted cab color <i>RESTRICTIONS: Requires 108" CA.</i>
124	Dry and Refrigerated Vans
124 MC 001.1	Dry freight van body, 12' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 84" CA.</i>
124 MC 002.1	Dry freight van body, 14' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 108" CA.</i>
124 MC 003.1	Dry freight van body, 16' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 120" CA.</i>
124 MC 004.1	Dry freight van body, 18' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 138" CA.</i>

2005 F-650/F-750 Modification Center

F-650/F-750 MODIFICATION CENTER

This page is about:

- Dry and Refrigerated Vans cont'd
- Cranes and Crane Bodies
- Wreckers and Rollbacks
- Truck Equipment Accessories
- Winches
- Grille Guards

Sales Code	Description
124	Dry and Refrigerated Vans cont'd
124 MC 005.1	Dry freight van body, 20' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 150 – 156" CA.</i>
124 MC 006.1	Dry freight van body, 22' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 165" CA.</i>
124 MC 007.1	Dry freight van body, 24' x 91" ID height roll-up door, interior lining, interior light <i>RESTRICTIONS: Requires 186" CA.</i>
125	Cranes and Crane Bodies
126	Wreckers and Rollbacks
130	Truck Equipment Accessories
130 MC 001.1	Safety kit, 2.5# ABC fire extinguisher, 3 reflective triangles in a storage box
130 MC 002.1	Hydraulic Jack, 12-ton, 33mm lug wrench; Shipped loose inside cab
131	Winches
132	Grille Guards
132 MC 001.1	Grille and headlamp guard, steel painted Black, fold down.
133	Tool Boxes
133 MC 001.1	Underbody tool box, frame-rail-mounted, curbside 24" x 18" x 18", locking "T" handle, black
133 MC 001.2	Underbody tool box, frame-rail-mounted, streetside 24" x 18" x 18", locking "T" handle, black
133 MC 002.1	Underbody tool box, frame-rail-mounted, curbside 36" x 18" x 18", locking "T" handle, black
133 MC 002.2	Underbody tool box, frame-rail-mounted, streetside 36" x 18" x 18", locking "T" handle, black
133 MC 003.1	Underbody tool box, frame-rail-mounted, curbside 48" x 18" x 18", locking "T" handle, black

Sales Code	Description
133 MC 003.2	Underbody tool box, frame-rail-mounted, streetside 48" x 18" x 18", locking "T" handle, black
134	Hitches
134 MC 001.1	Pintle hook, spring cushioned, 20,000-lb. GTW, 6000-lb. MVL-mounted on .50" plate braced to chassis frame, safety chain loops <i>RESTRICTIONS: 1. Use with dump body or platform and stake body. 2. NA with any liftgate. 3. NA With dump hoist and a stake or platform body.</i>
135	Liftgates
135 MC 001.1	Liftgate, 2000-lb. capacity, fold under 32" x 84" platform + 4" ramp <i>RESTRICTIONS: 1. Available with platform, stake and van bodies only. 2. NA any hitch.</i>
135 MC 002.1	Liftgate, 2500-lb. capacity, fold under 38" x 72" platform + 4" ramp <i>RESTRICTIONS: 1. Available with platform, stake and van bodies only. 2. NA any hitch.</i>
135 MC 003.1	Liftgate, 2000-lb. capacity, conventional 36" x 90" platform + 6" ramp <i>RESTRICTIONS: 1. Available with platform, stake and van bodies only. 2. NA any hitch.</i>
136	Dump Hoist
136 MC 001.1	Conversion hoist, double-acting scissor-type, NTEA Class D direct-mount pump, 11- to 14-ton capacity <i>RESTRICTIONS: For use on 84" and 108" CA only.</i>
136 MC 002.1	Conversion hoist, double-acting scissor-type, NTEA Class E direct-mount pump, 14-ton capacity <i>RESTRICTIONS: For use on 120" CA only.</i>
136 MC 003.1	Conversion hoist, double-acting scissor-type, NTEA Class F direct-mount pump, 14-ton capacity <i>RESTRICTIONS: For use on 150" and 156" CA only.</i>