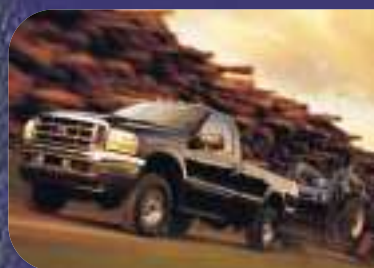


# *Ford Motor Company*

## **2002 RV and Trailer Towing Guide**





# Ford Products Available for All Major RV Categories

## Ford – a Leader in RV and Trailer Towing!

*There are many reasons Ford is considered a leader in RV and trailer towing:*

- **Outstanding Selection** – Whatever your need, there's a Ford vehicle or chassis to fill it.
- **Exceptional Towing Capabilities** – The Super Duty F-Series pickups and chassis cabs can pull exceptionally heavy trailers. In fact, when properly equipped and with the Triton™ 6.8L V10, the pickup can handle trailer weights up to 14,400 pounds\*, and the chassis cab can handle trailer weights all the way up to 21,500 pounds with the 7.3L Power Stroke® DI Turbo Diesel V8.
- **Experience** – Many years of RV and towing experience back all Ford vehicles.
- **Quality and Reliability** – Ford has earned a reputation for providing quality and reliable RV products.

### Pickups

Ford offers a complete lineup of tough pickups for a full range of RV and towing jobs. *Super Duty F-Series Pickups* can now handle conventional trailers up to 12,500 lbs. and fifth-wheel trailers up to 14,400 lbs.\*

### Class A Motorhomes

Self-contained RV camping/travel vehicles with a living unit constructed on a specially designed vehicle chassis. Ford offers *Super Duty F-Series Class A Motorhome Chassis*.

### Class C Motorhomes

Built on a cutaway chassis – includes van cab section. Ford chassis entries are *E-350 Super Duty* and *E-450 Super Duty Cutaway Chassis*.

### Van Conversions/Van Campers

Van converters use a full-size van chassis to create travel/camping units with special equipment and comfort features. Ford offers *E-Series Van*.

### Slide-In Truck Campers

Designed for carrying in a pickup truck bed, these units can be easily removed to use the truck for other purposes. Ford *F-Series pickups* are ideal for slide-in camper use.

### Trailers

A wide range of trailer types are in RV use: folding campers, conventional travel trailers, boat/ATV/snowmobile haulers, and fifth-wheel travel units – in a broad range of sizes, floor plans and furnishing levels.

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\*F-250 Regular Cab 4x2 with automatic transmission.



Metric Conversion – To obtain information in kilograms, multiply pounds by .45.

# PICKUPS

## Ford Pickups —

### A Complete Lineup to Meet ALL Your Recreational Vehicle and Towing Needs

#### Super Duty F-Series Pickups . . . For Your Serious Towing Needs!

Few vehicles have impacted the trailer towing industry like Ford Super Duty F-Series Pickups. Their wide selection of models, powertrains and features make them a top choice for the really BIG RV and towing tasks. Plus, all three cabs – Regular, Super and Crew – are exceptionally roomy.

#### Capable and Built Ford Tough

- F-250 and F-350 pickups can tow up to 12,500 lbs. (conventional) or 14,400 lbs.\* (fifth-wheel)
- Super Duty F-Series now offers:
  - the highest conventional trailer towing...
  - the highest GVWR...
  - the most choices...
  - the most interior room... of any full-size pickup sold in America!

#### Hard-Working Image

A dominant grille opening and large cooling capacity help cool the big, powerful engines, which are designed to satisfy one of this truck's primary work uses – trailer towing!

#### Powerful Engines

- Triton™ 5.4L V8 (260 hp/350 lbs.-ft. torque)
- Triton™ 6.8L V10 (310 hp/425 lbs.-ft. torque)
- 7.3L Power Stroke® Turbo Diesel V8 with intercooler and wastegated turbocharger (275 hp/520 lbs.-ft. with manual transmission; 250 hp/505 lbs.-ft. with automatic transmission)
  - All engines now include standard 6-speed manual overdrive transmission

#### Safety Features

Among their many safety features, Ford Super Duty F-Series Pickups offer standard driver and front passenger airbags<sup>a/</sup> and 4-wheel ABS on all models. In addition, available telescoping trailer tow mirrors provide excellent visibility.

*\*F-250 Regular Cab 4x2 with automatic transmission.*

*<sup>a/</sup>Always wear your safety belt and deactivate the passenger airbag when using a rear-facing child safety seat in Regular Cab and SuperCab models.*

*With all these outstanding features, it's no wonder Ford Super Duty F-Series is a "must-have" for serious RV customers.*



**Available With Best-In-Class  
12,500-Pound  
Conventional Trailer Towing Weight**  
(See Chart on Page 19)





# The Rest of Our **HARD-WORKING** Pickup Lineup

## F-150

**When Your RV/Towing Needs Aren't Quite As Big!**



The good-looking Built Ford Tough F-150 continues to do its part in making F-Series Pickups America's best-selling vehicle. Their ideal combination of rugged performance and passenger comfort make them perfect for all but the very biggest RV and towing tasks. Noteworthy features include:

- Available SuperCab models with four doors standard
- Choice of 5-speed manual or 4-speed automatic overdrive transmissions
- Can be equipped to tow trailers up to 8,800 pounds

- Three powerful engine choices:
  - 4.2L OHV V6 with 202 hp/252 lbs.-ft. torque
  - 4.6L SOHC V8 with 231 hp/293 lbs.-ft. torque
  - 5.4L SOHC V8 with 260 hp/350 lbs.-ft. torque
- 4-wheel disc ABS standard on all models
- Standard SecuriLock™ passive anti-theft system

*If you need even greater capabilities, check out the Super Duty F-Series models on the preceding page.*

## Fail-Safe Cooling System

Designed to help protect all F-150 engines from potential damage due to loss of coolant. If engine overheats, it automatically switches from 6/8-cylinder operation to alternating 3/4-cylinder operation, allowing vehicle to continue operating, but with limited engine power, in order to travel a short distance to a service facility.

## F-150 SuperCrew

**A Different Kind of Pickup!**



The F-150 SuperCrew expands the utility of a full-size pickup by adding four full-size doors and comfortable seating for six adults – without compromising its “tough truck” image and capabilities. SuperCrew is the latest example of how America's best-selling trucks keep coming up with better ways to get the job done. Its long list of features includes:

- Choice of 4x2 or 4x4 models
- Same wheelbase as short-wheelbase SuperCab for convenient maneuverability and garageability
- Unique 5 1/2-foot pickup box design

with steel inner panels and composite outer panels

- Optional box extender for improved box functionality and convenience
- Choice of two powerful single-overhead-cam Triton™ V8 engines:
  - Standard 231-horsepower 4.6L
  - Optional 260-horsepower 5.4L
- Electronically controlled 4-speed automatic overdrive transmission
- Standard 4-wheel-disc anti-lock brakes
- Can be equipped to tow trailers up to 8,000 pounds
- Standard power adjustable accelerator and brake pedals
- Optional power glass moonroof

## Ranger

**A Great Choice for On/Off-Road Fun!**



America's top-selling compact pickup for 14 years in a row continues to offer a whole lot of RV and towing capabilities in a relatively small package. These capabilities come from its Built Ford Tough heritage – and its long list of outstanding features:

- Regular and SuperCab models
- Three engine choices – from a 135-hp 2.3L I4 to a 4.0L SOHC V6 with 207 hp and 238 lb.-ft. of torque
- 100,000-mile tune-up interval on all engines<sup>a/</sup>

- Choice of manual and automatic overdrive transmissions
- Can be equipped to tow trailers up to 6,020 pounds
- Four-wheel anti-lock brakes standard
- Standard power rack-and-pinion steering
- Standard SecuriLock™ passive anti-theft system

<sup>a/</sup>Under normal driving conditions with routine fluid/filter changes.

*For More Information on Any of the Ford Pickups, See the Appropriate Brochure at Your Ford Dealership.*

# SLIDE-IN CAMPERS

## Slide-In Campers For F-Series Pickups

For the convenience of a camper, and the functional capabilities of a full-size pickup, a slide-in camper may be ideal for your RV needs.



### Use the chart below to select the proper F-Series Pickup/Camper Combination:

- Combined weight of vehicle, camper body, occupants and cargo must not exceed Gross Vehicle Weight Rating (GVWR).
- **Camper Package (Option Code 532) required with Super Duty F-250/350.**
- Cargo Weight Rating shown in chart is maximum allowable, assuming weight of a base vehicle with required camper option content and a passenger (150-lbs. per) at each available seating position

(7.3L Diesel ratings also assume weight of engine and standard transmission). Cargo Weight Rating shown must be further reduced by weight of powertrain upgrades and any other options. Option weights and center-of-gravity information are available in the Ford Pickup Truck Consumer Information Sheet.

*If you intend to pull a trailer in addition to carrying your camper, see the F-Series Pickup Trailer Towing Selector charts on pages 19 and 21.*

### MAXIMUM CARGO WEIGHT WITH SLIDE-IN CAMPER (WITH MINIMUM EQUIPMENT)

Model		Wheelbase	GVWR (Lbs.) (49S/Cal.)	Recommended Axle Ratio	Engine	Maximum Cargo Weight Rating (Lbs.)	
						Gas (49S/Cal.)	Diesel (49S/Cal.)
<b>F-150</b>	4x2 Reg. Cab	138.5"	6,600	3.55	4.6L V8	2,005	•
	4x2 Reg. Cab	138.5"	6,600	3.55	5.4L V8	1,902	•
	4x2 Reg. Cab	138.5"	7,700	3.73/4.10	5.4L V8	2,701/2,641	•
	4x2 SuperCab	138.5"	7,700	3.73/4.10	5.4L V8	2,114/2,054	•
	4x4 Reg. Cab	138.8"	7,700	3.73	5.4L V8	2,362	•
	4x4 SuperCab	138.8"	7,700	3.73	5.4L V8	1,770	•
<b>Super Duty F-250 (1)</b>	4x2 Reg. Cab	137.0"	8,800	Std.	Std.	3,019	2,319
	4x2 SuperCab	141.8"	8,800	Std.	Std.	2,340	1,660
	4x2 SuperCab	158.0"	8,800	Std.	Std.	2,122	1,442
	4x2 Crew Cab	156.2"	8,800	Std.	Std.	2,055	1,475
	4x2 Crew Cab	172.4"	8,800	Std.	Std.	1,886	1,206
	4x4 Reg. Cab	137.0"	8,800	Std.	Std.	2,068	1,378
	4x4 SuperCab	141.8"	8,800	Std.	Std.	2,379	1,699
	4x4 SuperCab	158.0"	8,800	Std.	Std.	1,712	1,032
	4x4 Crew Cab	156.2"	8,800	Std.	Std.	1,652	962
	4x4 Crew Cab	172.4"	8,800	Std.	Std.	1,516	816
<b>Super Duty F-350 (1)</b>	4x2 SRW Reg. Cab	137.0"	9,900/9,700	Std.	Std.	3,989/3,829	3,309/3,149
	4x2 DRW Reg. Cab	137.0"	11,200/11,000	Std.	Std.	5,030/4,665	• /3,915
	4x2 DRW Reg. Cab	137.0"	11,500/ •	Std.	Std.	•	4,580/ •
	4x2 SRW SuperCab	141.8"	9,900/9,700	Std.	Std.	3,415/3,238	2,735/2,558
	4x2 SRW SuperCab	158.0"	9,900/9,700	Std.	Std.	3,192/3,024	2,517/2,344
	4x2 DRW SuperCab	158.0"	11,200/11,000	Std.	Std.	4,700/4,320	• /3,570
	4x2 DRW SuperCab	158.0"	11,500/ •	Std.	Std.	•	4,250/ •
	4x2 SRW Crew Cab	156.2"	9,900/9,700	Std.	Std.	3,130/2,954	2,450/2,274
	4x2 DRW Crew Cab	156.2"	11,200/11,000	Std.	Std.	4,169/3,851	• /3,151
	4x2 DRW Crew Cab	156.2"	11,500/ •	Std.	Std.	•	3,719/ •
	4x2 SRW Crew Cab	172.4"	9,900/9,700	Std.	Std.	2,961/2,785	2,281/2,205
	4x2 DRW Crew Cab	172.4"	11,200/11,000	Std.	Std.	4,010/3,627	• /2,877
	4x2 DRW Crew Cab	172.4"	11,500/ •	Std.	Std.	•	3,560/ •
	4x4 SRW Reg. Cab	137.0"	9,900/9,700	Std.	Std.	3,624/3,458	2,914/2,778
	4x4 DRW Reg. Cab	137.0"	11,200/11,000	Std.	Std.	4,620/4,241	• /3,491
	4x4 DRW Reg. Cab	137.0"	11,500/ •	Std.	Std.	•	4,170/ •
	4x4 SRW SuperCab	141.8"	9,900/9,700	Std.	Std.	3,049/2,882	2,339/2,202
	4x4 SRW SuperCab	158.0"	9,900/9,700	Std.	Std.	2,818/2,652	2,108/1,972
	4x4 DRW SuperCab	158.0"	11,200/11,000	Std.	Std.	4,346/3,973	• /3,223
	4x4 DRW SuperCab	158.0"	11,500/ •	Std.	Std.	•	3,896/ •
	4x4 SRW Crew Cab	156.2"	9,900/9,700	Std.	Std.	2,758/2,597	2,048/1,917
	4x4 DRW Crew Cab	156.2"	11,200/11,000	Std.	Std.	3,830/3,522	• /2,772
	4x4 DRW Crew Cab	156.2"	11,500/ •	Std.	Std.	•	3,380/ •
	4x4 SRW Crew Cab	172.4"	9,900/9,700	Std.	Std.	2,622/2,434	1,942/1,779
	4x4 DRW Crew Cab	172.4"	11,200/11,000	Std.	Std.	3,570/3,200	• /2,450
	4x4 DRW Crew Cab	172.4"	11,500/ •	Std.	Std.	•	3,120/ •

(1) Requires Camper Package option.

### Slide-in Camper Installation

- Ford Motor Company recommends consulting your camper manufacturer/dealer for details regarding proper installation of your slide-in camper.
- A dimensionally stable block spacer is recommended between the headboard of the pickup box and the forward edge of the camper floor. Resting the spacer on the pickup box bed prevents movement and contact of the fully installed camper with the pickup box headboard or taillight rear pillars.

*Note: Be sure to measure your slide-in camper before attempting to install it onto the bed of the truck. Some campers may require a platform in the bed of the truck to make sure the cabover portion of the camper clears the roof of the truck cab.*

### Camper Center-of-Gravity Information

- All Styleside pickups that are qualified for slide-in camper bodies will have the camper center-of-gravity included on the Consumer Information Sheet, which is placed in the vehicle's glovebox.
- Data are calculated for each individual truck, based on vehicle options.
- If the vehicle is not qualified for camper usage, the Consumer Information Sheet will state that the vehicle is not recommended for camper usage, and no center-of-gravity data will be shown.

### Super Duty F-250/350 Camper Package (Option Code 532)

- Heavy service front springs (200-lb. upgrade over springs computer-selected based on options ordered. Not included if maximum springs already selected.)
- Rear stabilizer bar (SRW models)
- Slide-in camper certification

# FORD SUVs

## Ford SUVs



## Lead the Way . . . Wherever You Want to Go!

### ESCAPE



Our “starter” SUV. While it’s small in size, **Escape** is still a genuine Ford SUV. Designed, built and tested to rigorous Ford Truck standards, it aims to raise the bar in the mini-SUV segment with its unique combination of driving fun, toughness, performance – and value.

#### Key Features

- Choice of 127-hp 2.0L Zetec I4/5-speed manual trans. or 201-hp 3.0L Duratec V6/4-speed automatic

- Standard front-wheel drive; optional 4-wheel drive
- 5-passenger seating capacity
- Can be equipped to tow trailers up to 3,500 lbs.
- Available 4-wheel anti-lock brakes
- Available front-row side airbags<sup>a/</sup>
- SecuriLock™ passive anti-theft system

### EXPLORER SPORT



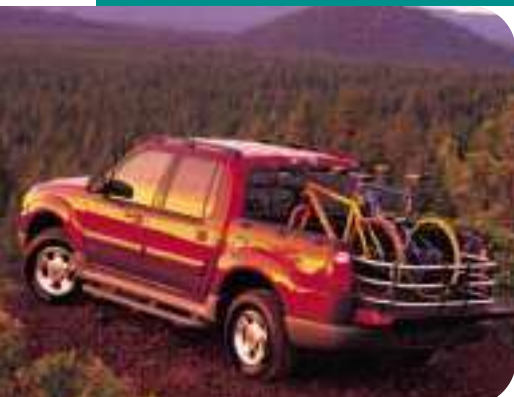
The first step up in our comprehensive SUV lineup is the **Explorer Sport**. This compact 2-door model features contemporary styling that is bold and athletic. It looks cool, is great fun to drive, and comes with Explorer’s well-earned reputation for quality, reliability and durability.

#### Key Features

- Choice of 4x2 or 4x4 models
- Standard 203-hp 4.0L single-overhead-cam V6 with 5-speed

- manual or automatic overdrive transmission
- Rugged body-on-frame construction
- Comfortable seating for four passengers
- Standard 4-wheel disc anti-lock brakes
- 3500-lb. towing capacity with standard rear bumper
- Can be equipped to tow trailers up to 5,120 lbs.
- Available front seat-mounted side-impact airbags<sup>a/</sup>

### EXPLORER SPORT TRAC



The innovative 4-door **Explorer Sport Trac** combines the comfort and convenience of an SUV with the added utility of a flexible open cargo area for “one vehicle does it all” versatility. With rugged, athletic styling it shares with the Sport model, the Sport Trac adds a totally new dimension to the Explorer lineup.

#### Key Features

- Choice of 4x2 or 4x4 models
- Standard 210-hp 4.0L single-overhead-cam V6 with 5-speed manual or automatic overdrive transmission

- Rugged body-on-frame construction
- Four full-size doors with seating for five
- Scratch-resistant composite cargo area accommodates 29.6 cu. ft. of cargo
- Available cargo cage extends cargo area for increased capacity and utility
- Available hard tonneau cover provides protection for items stowed in cargo area
- Standard 4-wheel anti-lock brakes
- 3500-lb. towing capacity with standard rear bumper
- Can be equipped to tow trailers up to 5,300 lbs.

<sup>a/</sup>Always wear your safety belt and secure children in the rear seat.





The all-new 2002 **Explorer 4-Door** aims to extend Explorer's 10-year SUV sales leadership through updated, refined styling and numerous functional upgrades. A 2-inch longer wheelbase and 2.4-inch greater width give it a more confident, athletic stance. Plus the roomier interior allows for a new optional third seat, increasing passenger capacity to seven. New suspension systems, including independent rear, offer enhanced ride and handling. More than ever, Explorer 4-Door represents an understated reward for hard work.



#### Key Features

- Choice of 4x2 or 4x4 models
- Standard 210-hp 4.0L single-overhead-cam V6 with 5-speed automatic overdrive transmission
- Optional 239-hp 4.6L SOHC V8 engine with 4-speed automatic overdrive transmission
- Rugged fully boxed frame
- Can be equipped to tow trailers up to 7,300 lbs.
- Standard 4-wheel-disc anti-lock brakes
- Available side curtain airbags for first- and second-row occupants<sup>a/</sup>



### EXPLORER 4-DOOR



The next step up in the Ford stable of SUVs is **Expedition** – the ultimate adventure full-size SUV. True to its truck heritage, it offers the chance to experience the “real” outdoors in surprising comfort and control. Plus, it offers outstanding towing capability, seating for up to nine, and ability to fit in a standard-size garage.

#### Key Features

- Choice of 4x2 or 4x4 4-door models
- Choice of two Triton™ overhead-cam V8 engines:
  - 4.6L with 232 hp/291 lbs.-ft. of torque
  - 5.4L with 260 hp/350 lbs.-ft. of torque

- Electronic 4-speed automatic overdrive transmission
- Boxed section front and center frame (to rear axle) for strength
- 4,000-lb. towing capacity with standard rear bumper
- Can be equipped to tow trailers up to 8,200 lbs.
- Standard 4-wheel disc brakes with 4-wheel anti-lock braking system
- On 4x4, Control-Trac system allows automatic 4-wheel drive when needed – without driver input
- Standard power adjustable pedals
- Optional load-leveling air suspensions (rear on 4x2; 4-corner on 4x4)

### EXPEDITION



The top step in the Ford Outfitters SUV lineup is **Excursion**. It is our “Ultimate SUV,” offering ultimate capability and premium presence. Ford's entry in the heavy-duty SUV segment, it offers maximum interior space and exceptional seating and comfort for up to nine passengers, while providing more cargo room than the competition. Plus, it can tow up to 11,000 pounds with its standard trailer hitch receiver.

#### Key Features

- Choice of 4x2 or 4x4 4-door models
- Selection of three powerful engines:
  - Triton™ 5.4L V8 with 255 hp/350 lbs.-ft. torque (Std. on 4x2)
  - Triton™ 6.8L V10 with 310 hp/425 lbs.-ft. torque (Std. on 4x4)
  - 7.3L Power Stroke® Turbo Diesel with 250 hp/505 lbs.-ft. torque (Opt.)
- Electronic 4-speed automatic overdrive transmission
- Power 4-wheel disc brakes with 4-wheel anti-lock braking system
- 146.4 cu. ft. maximum cargo volume

### EXCURSION



*For More Information on Any of the Ford Vehicle Lines,  
See the Appropriate Brochure at Your Ford Dealership.*



# CLASS A CHASSIS

## Class A Motorhome Chassis

More **CLASS A** Motorhomes Are Built on Ford Chassis Than Any Other Make<sup>a/</sup>



The Ford Super Duty F-Series Class A Motorhome Chassis is the industry sales leader.<sup>a/</sup> Its advanced features and outstanding performance provide the ideal basis for the unmatched luxury and comfort of some of the finest Class A motorhomes.

### Outstanding Features:

- Four wheelbase choices: 178/190/208/228-inch
- Four Gross Vehicle Weight Ratings (GVWRs): 15,700/18,000/20,500/22,000-pound
- Triton™ 6.8L V10 engine (310 hp/425 lbs.-ft. torque)
- 4-wheel-disc anti-lock braking system (ABS) for consistent, responsive braking performance
- Big 19.5-inch wheels and tires
- 26,000-lb. Gross Combination Weight Rating (GCWR) for excellent towing capabilities (10,300-lb. maximum trailer weight at 15,700-lb. GVWR)
- Electronically controlled 4-speed automatic overdrive transmission (4R100)
- 81-inch front tread width contributes to handling and lateral stability
- Designed to accommodate wide-body and slide-out type motorhomes

### Additional Features Include:

- Rugged ladder-type frame
- High-capacity front axle system
- 75-gallon fuel tank with turbine fuel pump for extended cruising range
- Tapered multi-leaf springs for smooth ride
- Large-diameter, gas-pressurized front and rear shock absorbers and stabilizer bars for ride control

<sup>a/</sup> Based on Class A calendar year registrations (through April 2001).



# CLASS C CHASSIS

## Class C Motorhome Chassis

### More **CLASS C** Motorhomes Are Built on Ford Chassis Than Any Other Make<sup>a/</sup>

The E-350 Super Duty and E-450 Super Duty Cutaway Chassis remain the overwhelming sales leaders for Class C motorhomes.<sup>a/</sup> Functional features include:

- Three wheelbase choices: 138/158/176-inch
- Up to 14,050-lb. GVWR and 20,000-lb. GCWR
- Powerful 5.4L Triton™ V8 (including Natural Gas version), 6.8L Triton™ V10 and 7.3L Power Stroke® DI Turbo Diesel V8 engines
- 100,000-mile scheduled tune-up interval on gasoline engines<sup>b/</sup>
- Electronically controlled 4-speed automatic overdrive transmission
- Driver and passenger airbags<sup>c/</sup>
- Out-front engine design provides spacious cab with access to “living area” and ease of ingress/egress
- 4-wheel-disc brakes with 4-wheel anti-lock braking system
- Twin-I-Beam independent front suspension (with caster/camber adjustment), front stabilizer bar and gas-pressurized shock absorbers contribute to a smooth, comfortable ride
- Steel ladder-type truck frame with six crossmembers
- 37-gallon fuel tank (E-350); 55-gallon fuel tank (E-450; optional on E-350 with 158-inch wheelbase DRW)
- Van-like driver position with ergonomic instrument panel and controls
- Up to 10,000 lbs. maximum trailer weight



## Service & Support

### Class A & C Motorhome Customer Assistance Center

This 24-hour, seven-days-a-week Hotline was designed to serve both motorhome owners and RV dealers.

Simply by calling **1-800-444-3311**, the caller has access to:

- The nearest appropriate service location.
- Assistance in scheduling a service appointment.
- Service assistance for motorhome customers and RV dealers in resolving Ford chassis-related concerns.

### In-Dealership Service Support

- Over 500 Ford dealerships in the U.S. and Canada.
- Certified service technicians backed by computerized diagnostics and national technical hotline support.
- Verification of available owner satisfaction and recall information affecting motorhomes.

<sup>a/</sup> Based on Class C calendar year registrations (through April 2001).

<sup>b/</sup> Under normal driving conditions with routine fluid/filter changes.

<sup>c/</sup> Always wear your safety belt and secure children in rear seat.

# FOUR-WHEEL-DOWN

## "Four-Wheel-Down" Towing

### Towing a Ford Vehicle Behind Your Motorhome With All Four Wheels Down

Many motorhome owners prefer the practicality of having another vehicle along when they travel. In fact, towing another vehicle behind the motorhome has become more and more popular in recent years. Furthermore, many of those who want to tow another vehicle prefer one that can be easily towed without a dolly or trailer. The Ford Motor Company car and truck models shown in the chart below can be towed with all

four wheels down. For safe operation, towed vehicles (or dollies or trailers carrying them) should be equipped with a separate functional brake system. *See page 12 and back cover for additional brake information.*

**NOTE:** Some aftermarket camper centers offer kits which may allow vehicles with automatic transmissions to be flat-towed.



Ford Cars	Manual Transmission	Automatic Transmission
Escort/ZX2	Yes	No
Focus	Yes	No
Mustang	Yes	No
Ford Trucks		
Ranger 4x2	Yes	No
Ranger 4x4	Yes	No
Escape	Yes	No
Explorer Sport	Yes	No
Explorer Sport Trac	Yes	No
Explorer 4-Door 4x2	Yes	No
Explorer 4-Door 4x4	Yes	Yes (b)
F-150 4x4	Yes (a)(c)	Yes (a)(c)
Super Duty F-250/350 4x4	Yes (a)	Yes (a)
Mazda Trucks		
Tribute	Yes (d)	No
B-Series Pickup	Yes (d)	No
Mercury Cars		
Cougar	Yes (d)	No

(a) Manual transfer case only (not Electronic Shift-on-the-Fly 4x4). (b) With dealer-installed Neutral Tow Kit (Part #1L2J7H332-AA). (c) Requires that the center disconnect be locked out by capping off one of the front axle vacuum motor lines. See your Ford Dealer for assistance. (d) Not to be towed faster than 55 mph.

*Note: Different vehicles have different restrictions and towing procedures. Contact your Ford Dealer for complete details. For safe operation, towed vehicles (or dollies or trailers carrying them) should be equipped with a separate functional brake system.*





# VAN CONVERSIONS

## Van Conversions

Stylize Your Recreational Needs and Ride in Comfort



### E-Series Van Conversions <sup>1/</sup>

Van conversions are a popular choice for recreation use – from camping to simply traveling in enhanced comfort and style. Converters offer an extensive selection of styles, designs and luxury furnishings, including:

- Large vista windows
- Luxurious seating and interior trim
- Rear seat/bed combination
- Unique exterior paint/tape treatment

The Ford E-Series has been the full-size van segment sales leader since 1979. Built to meet customer needs, the 2002 models offer aerodynamic styling, contemporary front interior components, advanced functional features, and a lineup of advanced engines. At right are some of the features that make them so popular:

- Sturdy body-on-frame construction
- Excellent towing capabilities . . . up to 6,800 pounds on E-150 when properly equipped
- Three engine choices on E-150 vans ... 191 hp 4.2L V6, 225 hp 4.6L and 255 hp 5.4L overhead-cam Triton™ V8s, all with standard 4-speed automatic overdrive transmission and fail-safe cooling system
- 100,000-mile scheduled tune-up interval <sup>2/</sup>
- Out-front engine design for convenient underhood servicing and ease of ingress/egress
- Standard four-wheel anti-lock braking system
- Exclusive Twin-I-Beam independent front suspension for both ruggedness and smooth ride – plus adjustable caster and camber

### Quality Conversions

Ford and authorized converters work together to continuously improve van conversion quality and customer satisfaction. Converters must meet specific Ford quality standards and process controls.



### Class B Van Campers

E-Series vans also provide an excellent base unit for Class B campers. Converters offer models equipped with sleeping, kitchen and bathroom facilities, as well as 110-volt hookup, fresh water storage and/or city water hookup. They typically include a high roof that provides greater comfort by allowing occupants to stand up inside.

<sup>1/</sup> Completed by authorized converters.

<sup>2/</sup> Under normal driving conditions with routine fluid/filter changes.

# THINGS TO KNOW

## Things To Know Before You Tow

### Get The Facts Before You Buy . . .



#### Before You Buy

If you are selecting a vehicle that will be used for towing, you should determine the approximate weight of the trailer you intend to tow, including the weight of any additional cargo and fluids that you will be carrying in the trailer. Also be sure the vehicle has the proper optional equipment (see page 18).

**Note:** Performance can be severely compromised in hilly terrain when minimum acceptable powertrain combination is selected. It is wise to consider purchasing a vehicle with a more powerful engine for hilly terrain.

#### Brakes

- Most states require brakes on trailers weighing over 1,500 pounds when loaded. For your safety, Ford Motor Company urges that a separate functional brake system be used on any towed vehicle, including those dolly-towed or towbar-towed.
- There are basically three types of trailer brake activation:

##### Electronically Controlled Electric

- Provides automatic and manual control of electric trailer brakes
- Requires vehicle to be equipped with controlling device and additional wiring for electrical power

##### Hydraulically Controlled Electric

- Trailer brakes are applied in proportion to brake pedal pressure
- Should not be connected directly to vehicle's brake system

##### Surge (Hydraulic)

- Independent hydraulic brakes activated by a master cylinder at the junction of the hitch and trailer tongue

- Be sure your trailer brakes conform to all applicable government regulations.

#### Trailer Lamps

Make sure the trailer is equipped with lights that conform to all applicable government regulations. Do not connect a trailer lighting system directly to the lighting system of the vehicle. See a local recreational vehicle dealer or rental trailer agency for correct wiring and relays for the trailer and heavy-duty flashers.

#### After You Buy

Before heading out on a trip (remember, do not tow a trailer until your vehicle has been driven at least 500 miles), be sure to have your fully loaded vehicle (including passengers) and trailer weighed so as not to exceed critical weight limits (page 14). If any of these limits are exceeded, cargo should be removed from the vehicle and/or trailer until all weights are within the specified limits.

#### Safety Chains

- Always use safety chains when towing. Safety chains are used to retain connection between the towing and towed vehicle in the event of separation of the trailer coupling or ball.
- Cross chains under the trailer tongue and allow enough slack for turning corners.
- See your vehicle's Owner Guide for safety chain attachment information.
- When using a frame-mounted trailer hitch, attach the safety chains to the frame-mounted hitch using the recommendations supplied by the hitch manufacturer.
- For rental trailers, follow rental agency instructions for hook-up of safety chains.

#### Trailer Wiring Harness

- Vehicles equipped with a factory-installed Trailer Towing Package include a trailer wiring harness and a wiring kit.
- This kit is packaged in a cardboard box and includes one or more jumper harnesses (to connect to your trailer wiring connector) and installation instructions.
- Ranger, all Explorer models, Expedition, F-150, and E-Series Van and Wagon models include a standard 4-pin trailer wiring harness. Excursion and Super Duty F-Series pickup models include a standard 7-pin trailer wiring harness. Refer to page 17 for wiring harness usage with optional trailer towing packages.



## About Hitches



7-wire trailer wiring harness and frame-mounted hitch receiver (shown with aftermarket hitch equipment).

When towing, it is vital that the proper hitch be used. Here is the hitch information you should know:

**Weight-Carrying (Non-Weight-Distributing) Hitch** is commonly used to tow small and medium-sized trailers. Choose a proper hitch and ball and make sure its location is compatible with that of the trailer. Use a good weight-carrying hitch that uniformly distributes the trailer tongue loads through the bumper and frame (through the body with Escape; bumper hitch not available). Ford rear step bumpers and hitch receivers provide weight-carrying capacities as shown in the chart above right. (A label affixed to the hitch receiver provides both the weight-carrying and weight-distributing capacities for each receiver.) The vehicle owner is responsible for obtaining the proper hitch ball, ball mounting and other appropriate equipment to tow both the trailer and load that will be towed.

**Weight-Distributing Hitch** is used in conjunction with a hitch platform (receiver) to distribute tongue weight to all towing vehicle and trailer wheels. Required for certain Class III and all Class IV applications (see the chart).

- Weight-distributing hitch platforms are welded or bolted to vehicle frame. Bolt-on types are recommended because they can be removed.
- Properly installed bolt-on weight-distributing hitch platform will not weaken vehicle or underbody as heat of welding might.
- Equalizing arms are connected from hitch to trailer's A-frame, and are

## FORD REAR STEP BUMPER/HITCH RECEIVER WEIGHT CAPACITY

Vehicle	Weight-Carrying Capacity (Lbs.)(1)	Max. Tongue Weight (Lbs.)	Weight-Distributing Capacity (Lbs.)(2)	Max. Tongue Weight (Lbs.)
<b>Rear Step Bumper:</b>				
Ranger	2,000	200	•	•
Explorer Sport/Sport Trac	3,500	350	•	•
E-Series Van/Wagon	5,000	500	•	•
Expedition	4,000	400	•	•
Excursion	5,000	500	•	•
F-Series	5,000	500	•	•
<b>Hitch Receiver:</b>				
Escape	3,500	300	•	•
Ranger	3,500	350	6,000	600
Explorer 4-Dr (Class II)	3,500	350	•	•
Explorer 4-Dr (Class III/IV)	5,000	500	7,300	730
E-Series Van/Wagon	5,000	500	10,000	1,000
Expedition	5,000	500	8,200	820
Excursion	5,000	500	11,000	1,100
F-150	5,000	500	8,800	880
Super Duty F-Series	5,000	500	12,500	1,250

(1) Ford rear step bumpers and hitch receivers do not include a hitch ball. The vehicle owner is responsible for obtaining the proper hitch ball, ball mounting and other appropriate equipment to tow both the trailer and its cargo load. (2) Ford hitch receivers do not include a hitch ball or ball mounting. The vehicle owner is responsible for obtaining the proper hitch ball, ball mounting, weight distributing equipment (i.e., equalizing arms and snap-up brackets, sway control system) and other appropriate equipment to tow both the trailer and its cargo load.

adjusted for best towing performance. Lengths of chain are pulled up and tightened to bend spring bars upward, which lifts some of the weight from the rear wheels and transfers weight to the other wheels of the vehicle and trailer.

### Factory-Installed Trailer Hitch Receiver Options

- are available on the following Ford vehicles:
- **Super Duty F-250/350 Pickups:** Option Code 86R
  - **Expedition:** Included with Trailer Towing Group – Option Code 535
  - **F-150 Pickups:** Included with Trailer Tow Group – Option Code 535
  - **E-Series Van/Wagon:** Included with Trailer Towing Package – Option Code 536
  - **Excursion:** Standard
  - **Explorer 4-Door:** Class II Standard; Class III/IV Included with Trailer Towing Prep Package – Option Code 53G
  - **Escape:** With Class II Trailer Towing Package – Option Code 536
  - **Ranger Pickup:** With V6 only – Option Code 53L

**Note:** See chart above for the weight-carrying and weight-distributing capacities of these hitch receivers. (These capacities also are shown on a label affixed to each receiver.)

The vehicle owner is responsible for obtaining the proper hitch ball, ball mounting, weight-distributing equipment (i.e., equalizing arms and snap-up brackets, sway control system) and other appropriate equipment to tow both the trailer and load that will be towed.

**Fifth-Wheel Hitch** is mounted in the pickup bed to put more of the trailer weight directly over the towing vehicle. The receiver centerline of the hitch should be mounted at least two inches forward of the rear axle of the truck chassis. This mounting location will distribute the tongue load of the trailer for optimum load-carrying and sway-control performance. Care must be taken to maintain nominal clearance from the back of the cab to the front of the trailer during tight cornering or backing maneuvers. Failure to follow this recommendation can adversely affect the towing vehicle's steering, braking, and handling characteristics.



Fifth-Wheel Hitch

# MORE THINGS TO KNOW

## More Things To Know Before You Tow

### Get The Facts Before You Buy . . .



#### Weights to Check

**Base Curb Weight + Cargo Weight + Passenger Weight = Gross Vehicle Weight (GVW)**

GVW must not exceed GVWR (obtain from Safety Compliance Certification Label on the left front door lock facing or the door latch post pillar).

**GVW + Loaded Trailer Weight = Gross Combination Weight (GCW)**

GCW must not exceed GCWR (obtain from charts on pages 19-23 or your vehicle's Owner Guide).



**Base Curb Weight** is the weight of the vehicle including a full tank of fuel and all standard equipment. It **does not include** passengers, cargo or any optional equipment. Your Ford dealership salesperson can give you this number for the vehicle(s) you are considering.

**Cargo Weight** includes all weight added to the Base Curb Weight, **including** cargo and optional equipment (consult salesperson). When towing, trailer tongue weight also is part of the Cargo Weight.

**Payload** is the combined maximum allowable weight of cargo and passengers that the truck is designed to carry. It is Gross Vehicle Weight Rating minus the Base Curb Weight.

**Gross Vehicle Weight (GVW)** is the Base Curb Weight *plus* actual **Cargo Weight** *plus* passengers. It is important to remember that GVW is not a limit or specification . . . it is the actual weight that is obtained when the fully loaded vehicle is driven onto a scale.

**Gross Vehicle Weight Rating (GVWR)** is the *maximum allowable weight* of the fully loaded vehicle (including passengers and cargo). This number – along with other weight limits, as well as tire, rim size and inflation pressure data – are shown on the vehicle's Safety Compliance Certification Label, located on the left front door lock facing or the door latch post pillar. **The GVW must never exceed the GVWR.**

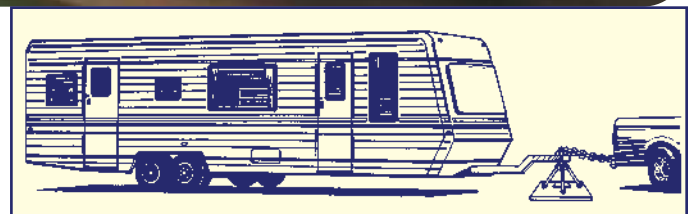
**Gross Axle Weight (GAW)** is the total weight placed on each axle (front and rear). To determine the Gross Axle Weights for your vehicle and trailer combination, take your loaded vehicle and trailer to a scale. With the trailer attached, place the front wheels of the vehicle on the scale to get the front GAW. For rear GAW, weigh the towing vehicle with the trailer attached, but with just the four wheels of the vehicle on the scale. You get the rear GAW by subtracting the front GAW from that amount.

**Gross Axle Weight Rating (GAWR)** is the maximum weight to be carried by a single axle (front or rear). These numbers also are shown on the Safety Compliance Certification Label. **The total load on each axle must never exceed its GAWR.**





**Measuring tongue weight with commercial scale**



**Measuring tongue weight with bathroom scale**

**Gross Combination Weight (GCW)** is the weight of the loaded vehicle (GVW) *plus* the weight of the fully loaded trailer. It is the actual weight obtained when the vehicle and trailer are weighed together on a scale.

**Gross Combination Weight Rating (GCWR)** is the *maximum allowable weight* of the towing vehicle and the loaded trailer – including all cargo and passengers – that the vehicle can handle without risking costly damage. (**Important: The towing vehicle's brake system is rated for operation at the GVWR – NOT GCWR. Separate functional brake systems should be used for safe control of towed vehicles and for trailers weighing more than 1,500 lbs. when loaded.**) The measured GCW must never exceed the GCWR.

**Maximum Loaded Trailer Weight** (as shown in the Trailer Towing Selector charts pages 19-23) is the highest possible weight of a fully loaded trailer the vehicle can tow, based on a minimum towing vehicle GVW. It assumes a towing vehicle with any mandatory options, no cargo, and driver (150 pounds) only. Super Duty F-Series chassis cab models also assume a second-unit

**Sample Truck Safety Compliance Certification Label**  
(Refer to actual label on your vehicle)

**Front GAWR GVWR Rear GAWR**

<b>MFD. BY FORD MOTOR CO IN U.S.A.</b>																																				
DATE: 06/95		GVWR: 6250 LB/2834 KG																																		
FRONT GAWR: 3450 LB		REAR GAWR: 3777 LB																																		
1564KG		1713KG																																		
P265/75R15SL		P265/75R15SL																																		
15x7.5J		15x7.5J																																		
AT 30 PSI COLD		AT 30 PSI COLD																																		
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.																																				
XXXXXXXXXXXXXXXXXXXX																																				
VIN: 1FTEX14H0SKB 00000																																				
TYPE: XXXXXXXXXXXXXXXXXXXX																																				
F0018 T0183																																				
<table border="1"> <tr> <td colspan="2">EXTERIOR PAINT COLORS</td> <td colspan="2"></td> <td colspan="2">DSO</td> </tr> <tr> <td>WB</td> <td>TYPE-GVW</td> <td>BODY</td> <td>TRANS</td> <td>AXLE</td> <td>TAPE</td> </tr> <tr> <td>155</td> <td></td> <td>FGM</td> <td>E</td> <td>H9B</td> <td></td> </tr> <tr> <td colspan="4"></td> <td colspan="2">SPRINGS</td> </tr> <tr> <td colspan="4"></td> <td colspan="2">M41</td> </tr> </table>							EXTERIOR PAINT COLORS				DSO		WB	TYPE-GVW	BODY	TRANS	AXLE	TAPE	155		FGM	E	H9B						SPRINGS						M41	
EXTERIOR PAINT COLORS				DSO																																
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body weight of 1,000 lbs. Weight of additional options, passengers, cargo and hitch must be deducted from this weight.

**Tongue Weight** is another critical measurement that must be made before towing. It refers to the amount of the trailer's weight that presses down on the trailer hitch. Too much tongue weight can cause suspension/drivetrain damage, and can press the vehicle down in back causing the front wheels to lift to the point where traction, steering

response and braking are severely decreased. Too little tongue weight can reduce rear-wheel traction and cause instability which may result in tail wagging or jackknifing.

For proper handling, tongue loads must meet the following requirements\*:

- For trailers up to 2,000 lbs., not to exceed 200 lbs.
- For trailers over 2,000 lbs., 10 - 15% of trailer weight.
- For fifth-wheel trailers, approximately 25% of trailer weight.

To determine the proper tongue load for a 3,000-lb. trailer, for example, multiply 3,000 by .10 and .15 to obtain a tongue load range of 300 to 450 lbs. For a fifth-wheel trailer, multiply 3,000 by .25 to arrive at a tongue load of approximately 750 lbs.

To measure actual tongue load, disconnect the trailer and place only the tongue – with the coupler at hitch ball height – on a scale. If the tongue load exceeds the upper weight limit, move more of the trailer contents rearward to achieve the recommended tongue load. If the tongue load is less than the lower limit, shift the load forward.

\*Refer to the chart on page 13 for tongue weight recommendations with Ford factory-installed step bumper trailer hitch receivers.

# TRAILER CLASSES

## Trailer Classes & RV Trailer Types

### FOUR TRAILER CLASSES . . .

#### CLASS I – LIGHT-DUTY

- 2,000-lb. maximum weight (trailer and cargo combined)
- Folding camping trailers and trailers for small boats, motorcycles and snowmobiles
- Many Ford vehicles can handle easily
- Weight-carrying hitch

#### CLASS II – MEDIUM-DUTY

- 2,001-3,500-lb. gross trailer weight
- Single-axle, small- to medium-length (up to 18 ft.) trailers
- Ford trucks can be equipped to tow these trailers
- Weight-distributing hitch not required unless specified for a particular vehicle

#### CLASS III – HEAVY-DUTY

- 3,501-5,000-lb. gross trailer weight
- Dual-axle or large single-axle travel trailers
- Most properly equipped Ford trucks can tow them
- Weight-distributing hitch not required unless specified for a particular vehicle

#### CLASS IV – EXTRA-HEAVY-DUTY

- Over 5,001-lb. gross trailer weight
- Largest travel and fifth-wheel trailers made for recreation
- E-Series Vans/Wagons, F-Series Pickups/Chassis Cabs, Excursion and Expedition can be equipped to handle these trailers
- Weight-distributing or fifth-wheel hitch required (Trailers over 12,500 pounds require fifth-wheel hitch)

### Three Basic RV Trailer Types



#### Folding Camping Trailer

Relatively inexpensive units providing campers with a comfortable, dry mobile shelter, plus these added benefits:

- Lightweight for easy towing (usually range from 300 to 2,000 pounds).
- Simple weight-carrying hitch is usually sufficient for towing.
- Compact, low-profile traveling package.
- Easily maneuverable – generally 8 to 16 feet long.



#### Conventional Travel Trailer

Generally larger, rigid construction units offering more of the conveniences of home, including such features as kitchen sink, dinette, shower, refrigerator and flush toilet. Additional benefits include:

- Widely varied levels of roominess, comfort and luxury – depending on the towing capacity of your vehicle, and your budget.
- Sizes usually range from 12 to 35 feet long.
- Normally towed with a weight-distributing hitch, depending on weight.



#### Fifth-Wheel Trailer

Provide the same types of accommodations as a conventional travel trailer, but with these unique characteristics:

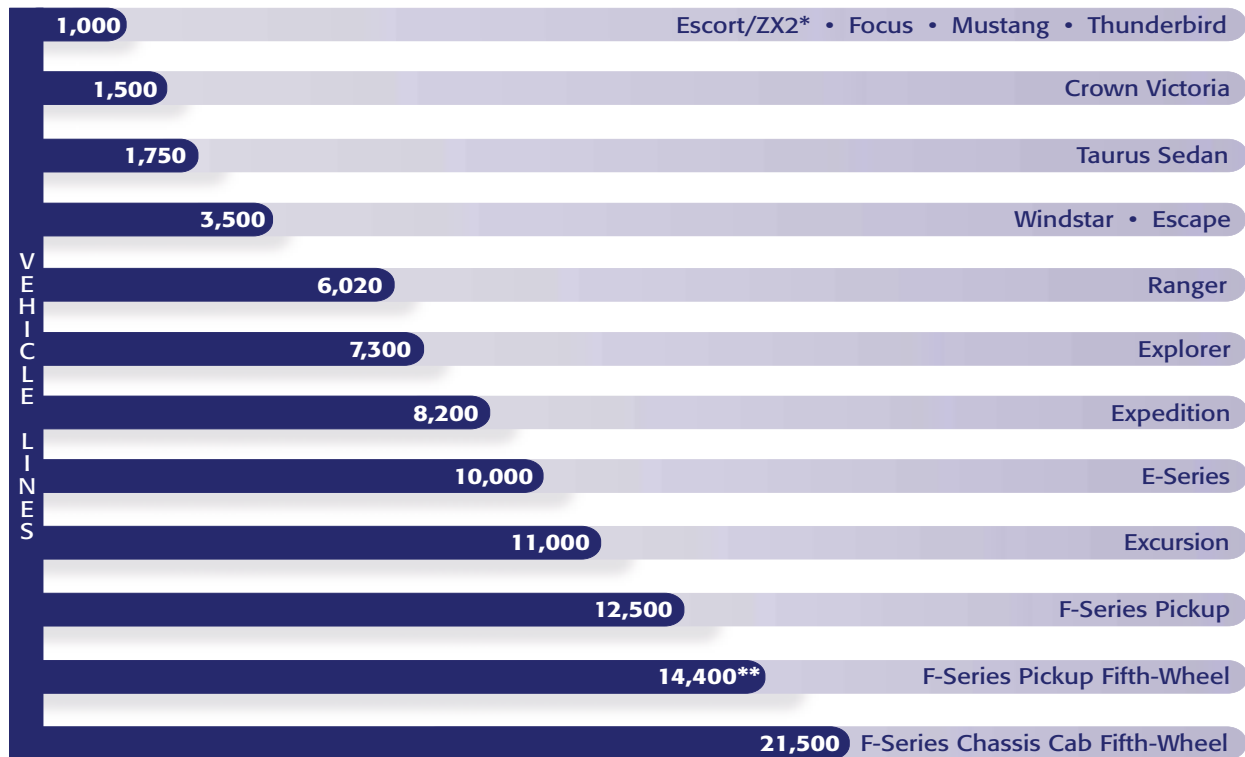
- The forward raised portion is designed to extend over the box of a pickup truck.
- Attaches to the truck via a fifth-wheel hitch mounted in the pickup bed.
- Offers the advantages of improved weight distribution and towing dynamics, since some trailer weight is directly over the towing vehicle.



# MAXIMUM TRAILER WEIGHTS

## Maximum Trailer Weights And Towing Packages

### MAXIMUM TRAILER WEIGHTS IN POUNDS FOR PROPERLY EQUIPPED FORD VEHICLES WITH NO CARGO



\*Manual transmission only.

\*\*F-250 Regular Cab 4x2 with automatic transmission.

### FORD TRUCK TRAILER TOWING PACKAGES

Model (Option Code)	Escape (536)	Expedition (535)	F-150 (535)	Super Duty F-Series (531)(a)	E-Series Van/Wagon (536)	Explorer 4-Door (53G)	Excursion (Standard)
Super Engine Cooling	•	X	•	•	•	•	•
72 Amp.-Hr. Heavy-Duty Battery	•	•	X	•	•	•	•
Trailer Wiring Harness (7-Pin)	•	X	X	•	X(b)	X	X
Trailer Wiring Harness (4-Pin)	X	•	•	•	•	•	•
Hitch Receiver (See Chart on Page 13)	X	X	X	•	X	X	X
Aux. Auto Trans. Oil Cooler	•	X	X	•	•	•	•
Rear Load Leveling Suspension (4x2 Only)	•	X	•	•	•	•	•
Heavy-Duty Shocks	•	•	X	•	•	•	•
Trailer Brake Wiring/Feed Kit	•	•	•	X	•	•	X
3.73 Limited Slip Rear Axle	•	•	•	•	•	X	•
Engine Oil Cooler	X	•	•	•	•	X(c)	•
Electric Brake Controller Tap-in Capability	•	•	•	•	X	•	•

(a) Standard with pickup and Lariat Chassis Cab models (optional on XL and XLT Chassis Cab). High Capacity Trailer Tow Package (535) is available with F-550 Crew Cab 4x2 and includes Trailer Tow Package (531), synthetic lube in rear axle, and radiator in-tank transmission oil cooler. (b) Blade-style female connector/bumper bracket, including relay system for backup/B+/running lights. (c) With 4.0L/automatic transmission.

**NOTE:** Content may vary depending on model, trim and/or powertrain. See your Ford Dealer for specific content information.

**NOTE:** Trailer Towing Package recommended for all light trucks that will be used for towing, to help ensure easy, proper connection of trailer lights.

### WINDSTAR WAGON CLASS II TRAILER TOWING PACKAGE (OPTION CODE 53B)

• Full-size Spare Tire	• Heavy-duty Battery	• Trailer Tow Wiring
------------------------	----------------------	----------------------

# REQUIRED/RECOMMENDED

## Required/Recommended Trailer Towing Equipment

It is essential that your vehicle includes any optional equipment needed to best perform its expected towing tasks. This equipment falls into the two categories listed at right:

1. **Required Equipment** includes items that must be installed. Your New Vehicle Limited Warranty (see your Dealer for a copy) may be voided if you tow without them.

2. **Recommended Equipment** includes items that can make towing easier, and are strongly recommended for strenuous towing conditions.



### REQUIRED EQUIPMENT

#### Windstar Wagon

- For Trailers From 2,000-3,500 pounds – Class II Trailer Tow Package.

#### Escape

- For Trailers Over 1,000 pounds – 3.0L Engine.
- For Trailers Over 2,000 pounds – 3.0L Engine and Class II Trailer Tow Package.

#### Explorer 4-Door

- For Trailers Over 3,500 pounds – Class III/IV Trailer Tow Prep Package.

#### F-150

- For Trailers Over 4,000 pounds – Class III Trailer Tow Group, 7700 Payload Group A or B.

#### F-550 Crew Cab 4x2

- For 30,000 pounds GCWR Capability – High Capacity Trailer Tow Package.

#### Expedition

- For Trailers Over 4,000 pounds – Class IV Trailer Tow Group.

### RECOMMENDED EQUIPMENT (WHERE NOT REQUIRED)

	Ford Cars	Escape	Windstar	Ranger	Explorer	Expedition	F-150	Super Duty F-250/350	F-Series 5th Wheel	E-Series Van/Wagon
Aftermarket Auxiliary Transmission Oil Cooler	X(a)	•	•	•	•	X(h)	X(h)	•	•	•
Step Bumper (f)	•	•	•	X(b)	•	X(d)	X(e)	X(e)	•	X(e)
Weight-Carrying Hitch (f) (Trailers Under 5,000 lbs.)	X	•	X	X	X	X	X	X	•	X
Weight-Distributing Hitch (f) (Trailers Over 5,000 lbs.)	•	•	•	X	X	X	X	X	•	X
Trailer Towing Package	•	X	X	•	X(c)	X	X	X(j)	X(j)	X
Hitch Receiver (f)	•	•	•	X(i)	•	•	•	X	•	•
Long Pickup Box	•	•	•	•	•	•	•	•	X(g)	•

(a) Recommended for long-distance, high-speed towing with automatic transmission on Escort/ZX2, Focus, Crown Victoria, Mustang, and Taurus Light-Duty applications. (b) Ranger step bumper is rated at 2,000 lbs. maximum trailer weight. (c) Available on 4-Door only. (d) Step bumper with 4,000-lb. trailer rating is standard. (e) For trailers under 5,000 lbs. with rear step bumper. (f) Capacities for bumpers/hitch receivers shown on page 13. (g) 5th wheel towing with short-box units limits turning angle. Parking maneuvers can be improved with a sliding-type 5th wheel hitch. (h) If vehicle is not equipped with factory Trailer Tow Group, auxiliary transmission oil cooler is recommended if you are planning on: traveling farther than 50 miles, towing in hilly terrain, or towing frequently. (i) Available with V6 – option code 53L (j) Standard on pickup models and Lariat Chassis Cab.

### FRONTAL AREA CONSIDERATIONS

Frontal area is the total area in square feet that a moving vehicle and trailer exposes to air resistance. The chart shows the limitations that must be considered in selecting a vehicle/trailer combination. Exceeding these limitations may significantly reduce the performance of your towing vehicle.

Vehicle Line	Frontal Area Limitations/Considerations	With
Escort/ZX2*/Focus/Mustang	20 sq. ft.	All applications
Windstar Van/Wagon	Base Vehicle Frontal Area	Cargo Van <b>OR</b> Wagon without Class II Trailer Tow Pkg.
	32 sq. ft.	Wagon with Class II Trailer Tow Pkg.
Explorer Sport & Sport Trac	50 sq. ft.	All applications
Explorer 4-Door	Base Vehicle Frontal Area	Without Trailer Towing Prep Package Class III/IV
	60 sq. ft.	With Trailer Towing Prep Package Class III/IV
Ranger	Base Vehicle Frontal Area	2.3L I4 Engine
	50 sq. ft.	3.0L V6 or 4.0L V6 Engine
E-Series	60 sq. ft.	All applications
Excursion	60 sq. ft.	All applications
F-150	Base Vehicle Frontal Area	Without Class III Trailer Tow Group or 7700 Payload Group A or B
	60 sq. ft.	With Class III Trailer Tow Group or 7700 Payload Group A or B
Expedition	Base Vehicle Frontal Area	Without Class IV Trailer Tow Group
	60 sq. ft.	With Class IV Trailer Tow Group
Super Duty F-Series	60 sq. ft.	All applications except F-550 Crew Cab 4x2 with High Capacity Trailer Tow Pkg.
	90 sq. ft.	F-550 Crew Cab 4x2 with High Capacity Trailer Tow Pkg.

\* Manual Transmission Only



# TOWING SELECTOR

## Trailer Towing Selector

Pages 19 - 23

Select column with transmission, cab design and drive system (4x2 or 4x4) you prefer. Read down column to find the trailer weight that can be towed with engine/axle ratio combinations listed at left. **GCWR** column shows maximum allowable combined weight of vehicle, trailer and cargo (including passengers) for each engine/axle ratio combination. **Maximum Loaded Trailer Weight** assumes towing vehicle with mandatory options, no cargo and driver (150 pounds) only. Weight of

additional options, passengers, cargo and hitch must be deducted from this weight. Also check Required and Recommended Equipment on page 18.

### Ride Height Considerations on Super Duty 4x4 Pickups

The tough monobeam front axle and spring capacity result in a durable vehicle with the ride heights (shown at right) you will need to consider when towing a fifth-wheel or gooseneck trailer:

Model	Max. Ride Ht.
F-250	56-57 inches
F-350 SRW	58-59 inches
F-350 DRW	57-58 inches

**NOTE:** Vehicles with other configurations may have varying ride heights.

## SUPER DUTY F-250/350 PICKUP CONVENTIONAL TOWING

			Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission											
			REGULAR CAB				SUPERCAB				CREW CAB			
	Axle Ratio	GCWR (Lbs.)	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4
5.4L SEFI V8	3.73	13,500	7,900	7,500	7,600	7,200	7,500	7,100	7,200	6,900	7,300	6,900	•	•
	4.10	15,000	9,400	9,000	9,100	8,700	9,000	8,600	8,700	8,600	8,800	8,400	•	•
6.8L SEFI V10	3.73	17,000	11,200	10,800	10,900	10,500	10,900	10,500	10,500	10,200	10,600	10,300	10,300	9,900
	4.30	20,000	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
7.3L V8 DI Turbo Diesel	3.73	20,000	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
	4.10	20,000	•	•	12,500	12,500	•	•	12,500	12,500	•	•	12,500	12,500
			Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission											
5.4L SEFI V8	3.73	13,500	7,800	7,400	7,600	7,100	7,500	7,100	7,200	6,900	7,200	6,900	•	•
	4.10	15,000	9,300	8,900	9,100	8,600	9,000	8,600	8,700	8,400	8,700	8,400	•	•
6.8L SEFI V10	3.73	16,500	10,700	10,300	10,300	9,900	10,300	9,900	10,000	9,700	10,100	9,700	9,800	9,300
	4.30	20,000	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
7.3L V8 DI Turbo Diesel	3.73	20,000	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,400
	4.10	20,000	•	•	12,500	12,500	•	•	12,500	12,500	•	•	12,500	12,400

### Notes:

- This information also applies to models with Pickup Box Delete option (66D).
- For F-250/350 SRW models, F-350 trailer weights are shown; F-250 trailer weights may be 100-200 pounds greater. Check with your sales consultant.
- Trailer weights are limited to 12,500 lbs. due to limitations of the conventional hitch. If you wish to tow a heavier weight, consider a fifth-wheel hitch (see chart below).

## SUPER DUTY F-250/350 PICKUP FIFTH-WHEEL TOWING

			Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission											
			REGULAR CAB				SUPERCAB				CREW CAB			
	Axle Ratio	GCWR (Lbs.)	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4	F-250/350 SRW 4x2	F-250/350 SRW 4x4	F-350 DRW 4x2	F-350 DRW 4x4
5.4L SEFI V8	3.73	13,500	7,900	7,500	7,600	7,200	7,500	7,100	7,200	6,900	7,300	6,900	•	•
	4.10	15,000	9,400	9,000	9,100	8,700	9,000	8,600	8,700	8,400	8,800	8,400	•	•
6.8L SEFI V10	3.73	17,000	11,200	10,800	10,900	10,500	10,900	10,500	10,500	10,200	10,600	10,300	10,300	9,900
	4.30	20,000	14,200	13,800	13,900	13,500	13,900	13,500	13,500	13,200	13,600	13,300	13,300	12,900
7.3L V8 DI	3.73	20,000	13,800	13,400	13,400	13,000	13,400	13,000	13,100	12,800	13,200	12,800	12,900	12,400
Turbo Diesel	4.10	20,000	•	•	13,400	13,000	•	•	13,100	12,800	•	•	12,900	12,400
			Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission											
5.4L SEFI V8	3.73	13,500	7,800	7,400	7,600	7,100	7,500	7,100	7,200	6,900	7,200	6,900	•	•
	4.10	15,000	9,300	8,900	9,100	8,600	9,000	8,600	8,700	8,400	8,700	8,400	•	•
6.8L SEFI V10	3.73	16,500	10,700	10,300	10,300	9,900	10,300	9,900	10,000	9,700	10,100	9,700	9,800	9,300
	4.30	20,000	14,200	13,800	13,800	13,400	13,800	13,400	13,500	13,200	13,600	13,200	13,300	12,800
7.3L V8 DI	3.73	20,000	13,700	13,300	13,400	12,900	13,400	13,000	13,100	12,700	13,100	12,800	12,800	12,400
Turbo Diesel	4.10	20,000	•	•	13,400	12,900	•	•	13,100	12,700	•	•	12,800	12,400

### Notes:

- This information also applies to models with Pickup Box Delete option (66D).
- For F-250/350 SRW models, F-350 trailer weights are shown; F-250 trailer weights may be 100-200 pounds greater. Check with your sales consultant.

# Trailer Towing Selector



## SUPER DUTY F-350/450/550 CHASSIS CAB FIFTH-WHEEL TOWING

Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission

Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CHASSIS CAB								SUPER CHASSIS CAB								CREW CHASSIS CAB							
			F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW*	F-450 4x4 DRW*	F-550 4x2 DRW*	F-550 4x4 DRW*	F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW	F-450 4x4 DRW	F-550 4x2 DRW	F-550 4x4 DRW	F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW	F-450 4x4 DRW	F-550 4x2 DRW	F-550 4x4 DRW
5.4L	3.73	13,500	7,300	6,800	7,000	6,500	•	•	•	•	6,900	6,500	•	•	•	•	•	•	6,700	6,300	•	•	•	•	•	•
SEFI V8	4.10	15,000	8,800	8,300	8,500	8,000	•	•	•	•	8,400	8,000	•	•	•	•	•	•	8,200	7,800	•	•	•	•	•	•
6.8L	3.73	17,000	10,600	10,200	10,300	9,800	•	•	•	•	10,200	9,800	9,900	9,500	•	•	•	•	10,000	9,600	9,700	9,300	•	•	•	•
SEFI V10	4.30	20,000	•	•	13,300	12,800	•	•	•	•	•	•	12,900	12,500	•	•	•	•	•	•	12,700	12,300	•	•	•	•
	4.88	24,000	•	•	•	•	16,600	16,300	16,500	16,200	•	•	•	•	16,200	15,800	16,200	15,700	•	•	•	•	16,000	15,700	15,900	15,600
	5.38	26,000	•	•	•	•	18,600	18,300	18,500	18,200	•	•	•	•	18,200	17,800	18,200	17,700	•	•	•	•	18,000	17,700	17,900	17,600
7.3L V8	3.73	20,000	13,200	12,700	12,800	12,300	•	•	•	•	12,800	12,400	12,400	12,000	•	•	•	•	12,600	12,200	12,300	11,800	•	•	•	•
DI Turbo	4.10	20,000	•	•	12,800	12,300	•	•	•	•	•	•	12,400	12,000	•	•	•	•	•	•	12,300	11,800	•	•	•	•
Diesel	4.30	26,000	•	•	•	•	18,100	17,800	•	•	•	•	•	•	17,800	17,400	•	•	•	•	•	•	17,500	17,200	•	•
	4.88	26,000	•	•	•	•	18,100	17,800	18,000	17,700	•	•	•	•	17,800	17,400	17,700	17,300	•	•	•	•	17,500	17,200	17,500	17,100
	4.88	30,000(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	21,500	•

Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission

Engine	Axle Ratio	GCWR (Lbs.)	F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW*	F-450 4x4 DRW*	F-550 4x2 DRW*	F-550 4x4 DRW*	F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW	F-450 4x4 DRW	F-550 4x2 DRW	F-550 4x4 DRW	F-350 4x2 SRW	F-350 4x4 SRW	F-350 4x2 DRW	F-350 4x4 DRW	F-450 4x2 DRW	F-450 4x4 DRW	F-550 4x2 DRW	F-550 4x4 DRW
5.4L	3.73	13,500	7,200	6,800	6,900	6,400	•	•	•	•	6,900	6,400	•	•	•	•	•	•	6,700	6,200	•	•	•	•	•	•
SEFI V8	4.10	15,000	8,700	8,300	8,400	7,900	•	•	•	•	8,400	7,900	•	•	•	•	•	•	8,200	7,700	•	•	•	•	•	•
6.8L	3.73	16,500	10,100	9,700	9,700	9,300	•	•	•	•	9,700	9,300	9,400	9,000	•	•	•	•	9,500	9,100	9,200	8,700	•	•	•	•
SEFI V10	4.30	20,000	•	•	13,200	12,800	•	•	•	•	•	•	12,900	12,500	•	•	•	•	•	•	12,700	12,200	•	•	•	•
	4.88	22,000	•	•	•	•	14,500	14,200	•	•	•	•	•	•	14,200	13,800	•	•	•	•	•	•	14,000	13,700	•	•
	5.38	22,000	•	•	•	•	14,500	14,200	•	•	•	•	•	•	14,200	13,800	•	•	•	•	•	•	14,000	13,700	•	•
7.3L V8	3.73	20,000	13,100	12,700	12,800	12,300	•	•	•	•	12,800	12,300	12,400	12,000	•	•	•	•	12,600	12,100	12,200	11,800	•	•	•	•
DI Turbo	4.10	20,000	•	•	12,800	12,300	•	•	•	•	•	•	12,400	12,000	•	•	•	•	•	•	12,200	11,800	•	•	•	•
Diesel	4.30	26,000	•	•	•	•	18,100	17,800	•	•	•	•	•	•	17,700	17,300	•	•	•	•	•	•	17,500	17,200	•	•
	4.88	26,000	•	•	•	•	18,100	17,800	18,000	17,700	•	•	•	•	17,700	17,300	17,700	17,200	•	•	•	•	17,500	17,200	17,400	17,100

\* F-450/550 weights shown are for 141-inch wheelbase Regular Cab or 176-inch wheelbase Crew Cab models. For 165, 189, 200 and 201-inch wheelbase models, weights may be somewhat less (usually not more than 400 pounds). (1) Available with High Capacity Trailer Tow Package Only

## SUPER DUTY CLASS A MOTORHOME CHASSIS

Max. GVWR	Max. GCWR	Max. Trailer Weight
15,700 Lbs.	26,000 Lbs.	10,300 Lbs.
18,000 Lbs.	26,000 Lbs.	8,000 Lbs.
20,500 Lbs.	26,000 Lbs.	5,500 Lbs.
22,000 Lbs.	26,000 Lbs.	4,000 Lbs.

**Note:** Towing vehicle's braking system is rated for operation at GVWR – NOT GCWR. Separate functional brake systems should be used for safe control of towed vehicles or trailers weighing more than 1,500 lbs. when loaded.

## SUPER DUTY F-650/750

To determine Maximum Trailer Weight, subtract your vehicle's GVWR from the following Maximum GCWRs:

Model	Max. GVWR	Max. GCWR*
F-650 Regular/Super/Crew Cab	26,000 Lbs.	40,000 Lbs.
F-750 Regular/Super/Crew Cab	30,000 Lbs.	45,000 Lbs.
F-750 Regular/Super/Crew Cab	33,000 Lbs.	60,000 Lbs.

\* Figures shown are the maximum available for each model. Actual ratings may be less, depending on your transmission. Check with your sales consultant for the exact rating on your vehicle.

**Note:** Applications that exceed 10,000 Lbs. Maximum Trailer Weight require a fifth-wheel hitch.



# Trailer Towing Selector



## F-150 PICKUP FIFTH-WHEEL TOWING

				Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission			
Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CAB		SUPERCAB		
			4x2	4x4	4x2	4x4	
4.2L SEFI V6	3.55	10,000	5,800	5,400	5,500	•	
4.6L SEFI V8	3.55	11,500(1)	7,200	6,900	6,900	6,600	
	3.55	11,000(2)	•	6,400	•	6,100	
5.4L SEFI V8	3.55	13,000(1)	8,600	8,300	8,300	8,000	
	3.55	12,500(2)	•	7,800	•	7,500	
	3.73(3)	13,500	8,800	8,400	8,600	8,300	
	4.10(4)	15,000	8,800	•	8,600	•	

(1) (2) (3) (4) See footnotes with chart below.

**Note:** While F-150 SuperCrew is capable of towing up to 8,000 lbs. and the box will accept a fifth-wheel hitch, current fifth-wheel trailer designs are not compatible with SuperCrew. Any questions should be referred to the trailer dealer/manufacture.

## F-150 PICKUP CONVENTIONAL TOWING

				Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission			
Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CAB		SUPERCAB		SUPERCREW
			4x2	4x4	4x2	4x4	4x2 4x4
4.2L SEFI V6	3.31	9,000	4,700	•	4,500	•	• •
	3.55	10,000	5,700	5,400	5,500	•	• •
4.6L SEFI V8	3.08	10,000	2,000	•	2,000	•	• •
	3.31	10,500	6,200	5,800	5,900	5,600	• •
	3.55	11,500(1)	7,200	6,800	6,900	6,600	6,600 6,200
	3.55	11,000(2)	•	6,300	•	6,100	• •
	3.73	11,500(2)	•	•	•	•	• 6,100
5.4L SEFI V8	3.31	12,000	7,600	7,200	7,300	7,000	• •
	3.55	13,000(1)	8,600	8,200	8,300	8,000	8,000 7,600
	3.55	12,500(2)	•	7,700	•	7,500	• 7,100
	3.73(3)	13,500	8,800	8,400	8,600	8,200	• •
	4.10(4)	15,000	8,800	•	8,600	•	• •
5.4L NGV V8 (Natural Gas)	3.73	11,000	5,900	•	•	•	• •

				Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission			
Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CAB		SUPERCAB		
			4x2	4x4	4x2	4x4	
4.2L SEFI V6	3.08	6,500	2,000	•	2,000	•	• •
	3.31	7,200	•	2,600	•	•	• •
	3.55	7,800	3,500	3,200	3,300	•	• •
4.6L SEFI V8	3.08	6,500	2,000	•	2,000	•	• •
	3.31	7,200	2,900	2,500	2,600	2,300	• •
	3.55	7,800	3,500	3,100	3,200	2,900	• •

(1) With 16-inch tires or 4x2 17-inch tires. (2) With 4x4 17-inch tires.

(3) Available with 7700 Payload Group A only. Group A includes the necessary equipment (72 amp-hr. battery, upgraded radiator – 1.42" core thickness, 14-plate auxiliary automatic transmission oil cooler and heavy-duty shock absorbers) to tow the maximum trailer weights shown.

(4) Available with 7700 Payload Group B only. Group B includes the necessary equipment (72 amp-hr. battery, upgraded radiator – 1.42" core thickness, 22-plate auxiliary automatic transmission oil cooler and heavy-duty shock absorbers) to tow the maximum trailer weights shown. Group B also includes the Class III Trailer Towing Group which adds the frame-mounted hitch receiver and 7-pin trailer wiring harness and connector.

## RANGER

				Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission			
Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CAB		SUPERCAB		
			4x2	4x4	4x2	4x4	
2.3L SEFI I4	4.10	5,500	2,240	•	•	•	
3.0L SEFI V6	3.73	7,500	4,100	•	3,940	•	
	3.73(1)	7,500	4,000	•	3,780	•	
	3.73/4.10	7,500	•	3,820	•	3,680	
4.0L SOHC SEFI V6	3.55	9,500	6,020	•	5,860	•	
	3.55(1)	9,500	5,940	•	5,720	•	
	3.73/4.10	9,500	•	5,760	•	5,600(2)	

				Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission			
Engine	Axle Ratio	GCWR (Lbs.)	REGULAR CAB		SUPERCAB		
			4x2	4x4	4x2	4x4	
2.3L SEFI I4	3.73/4.10	4,800	1,640	•	1,480	•	
3.0L SEFI V6	3.73	6,000	2,640	•	2,480	•	
	3.73(1)	6,000	2,540	•	2,320	•	
	3.73/4.10	6,000	•	2,360	•	2,200	
4.0L SOHC SEFI V6	3.55	7,000	3,560	•	3,400	•	
	3.55(1)	7,000	3,460	•	3,260	•	
	3.73/4.10	7,000	•	3,300	•	3,140(3)	

(1) Ranger Edge only. (2) 5,200 lbs. with FX4. (3) 2,740 lbs. with FX4.



**M** Metric Conversion – To obtain information in kilograms, multiply pounds by .45; to obtain information in centimeters, multiply inches by 2.54.

# Trailer Towing Selector

## ESCAPE

Engine	Axle Ratio	Maximum Loaded Trailer Weight (Lbs.)
2.0L SEFI I4	All	1,000
3.0L SEFI V6	All	2,000 Without Class II Trailer Towing Package
	All	3,500 With Class II Trailer Towing Package



ESCAPE



EXPLORER 4-DOOR

## EXPLORER 4-DOOR

		Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission	
Engine	Axle Ratio	GCWR (Lbs.)	
4.0L SOHC SEFI V6	3.55	7,700	4x2
	3.55	8,000	4x4
	3.73 LS	10,000	
	3.73 LS	10,240	
4.6L SOHC SEFI V8	3.55	7,700	4x2
	3.55	8,000	4x4
	3.73 LS	11,600	
		Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission	
4.0L SOHC SEFI V6	3.73 LS	7,000	
		2,700	2,500



EXPLORER SPORT TRAC

## EXPLORER SPORT & SPORT TRAC

		Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission	
Engine	Axle Ratio	GCWR (Lbs.)	
4.0L SOHC SEFI V6	All	9,100	SPORT 2-DOOR 4x2
	All	9,600	SPORT TRAC 4-DOOR 4x2
			4x4
			4x4
			4x4
			4x4
		Maximum Loaded Trailer Weight (Lbs.) – Manual Transmission	
4.0L SOHC SEFI V6	All	7,000	
		3,060	2,840
			2,740
			2,480

## EXPEDITION

		Maximum Loaded Trailer Weight (Lbs.)	
Engine	Axle Ratio	GCWR (Lbs.)	
4.6L SEFI V8	3.55	11,500(1)	4x2
	3.55	11,000(2)	4x4
5.4L SEFI V8	3.31	12,000	4x2
	3.55	13,000(1)	4x4
	3.55	12,500(2)	
	3.73	13,500(1)	
	3.73	13,000(2)	

(1) With 16-inch tires or 4x2 P275 17-inch tires.

(2) With 4x4 P265 17-inch tires.

\* Available in High Altitude Areas only.



EXPEDITION



EXPLORER SPORT

## WINDSTAR

		Maximum Loaded Trailer Weight (Lbs.)	
Engine	Axle Ratio	GCWR (Lbs.)	
3.8L SPI	3.56	7,000	Wagon
SEFI V6	3.56	8,500*	Van

\* Requires Class II Trailer Tow Package.

## EXCURSION

		Maximum Loaded Trailer Weight (Lbs.)	
Engine	Axle Ratio	GCWR (Lbs.)	
5.4L SEFI V8	3.73	13,000	4x2
	4.10	14,500	4x4
6.8L SEFI V10	3.73	17,000	4x2
	4.30	20,000	4x4
7.3L V8 DI Turbo Diesel	3.73	20,000	4x2
			4x4



EXCURSION



WINDSTAR



# Trailer Towing Selector



## E-SERIES VAN/WAGON

Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission

Engine	Axle Ratio	GCWR (Lbs.)	VAN				WAGON		
			E-150	E-250	E-250 Extended	E-350 Super Duty	E-350 Super Duty Extended	E-150	E-350 Super Duty
4.2L SEFI V6	3.55	10,000	5,000	•	•	•	•	4,700	•
	3.73	10,500	•	5,100	5,000	•	•	•	•
	4.09	11,000	•	5,500	5,400	•	•	•	•
4.6L SEFI V8	3.55	11,500	6,400	•	•	•	•	6,100	•
5.4L SEFI V8	3.55	12,000	6,800	•	•	6,300	6,200	6,500	•
	3.73	13,000	•	7,400	7,300	•	•	•	5,700
	4.10	13,000	•	•	•	7,300	7,200	•	6,700
5.4L NGV V8 (Natural Gas)	3.73	13,000	•	6,800	7,300	•	•	•	•
	4.10	13,000	•	•	•	6,700	6,600	•	6,200
6.8L SEFI V10	3.73	15,000	•	•	•	9,200	9,000	•	8,800
	4.10	18,500	•	•	•	10,000	10,000	•	10,000
7.3L V8 DI Turbo Diesel	3.55	16,000	•	•	•	9,700	9,600	•	9,400
	4.10	20,000	•	•	•	10,000	10,000	•	10,000

## E-SERIES CUTAWAY/STRIPPED CHASSIS

Maximum Loaded Trailer Weight (Lbs.) – Automatic Transmission

Engine	Axle Ratio	GCWR (Lbs.)	CUTAWAY		STRIPPED CHASSIS	
			E-350	E-450	E-250	E-350
4.2L SEFI V6	4.09	11,000	•	•	7,300	•
5.4L SEFI V8	3.55	13,000	•	•	•	8,800
	4.10	13,000	8,000	•	•	8,800
	4.56	13,000	7,800	•	•	•
6.8L SEFI V10	4.10	18,500	10,000	•	•	10,000
	4.56	18,500	10,000	•	•	•
	4.63	20,000	•	10,000	•	•
7.3L V8 DI Turbo Diesel	4.10	20,000	10,000	10,000	•	•

## FORD CARS

CAR LINE	ESCORT/ZX2	FOCUS	MUSTANG	THUNDERBIRD	TAURUS	CROWN VICTORIA
Towing Class	Light-Duty I (1)(2)	Light-Duty I (1)	Light-Duty I (1)	Light-Duty I	Light-Duty I	Light-Duty I
Max. Gross Trailer Wt. (Lbs.)	1,000	1,000	1,000	1,000	1,100(Wagon)/1,250 (Sedan)(3)	1,500
Max. Tongue Load (Lbs.)	100	100	100	100	110/125(3)	150
Minimum Engine	2.0L 4-Cyl.*	2.0L 4-Cyl.*	3.8L V6*	3.9L V8*	3.0L V6*	4.6L V8

(1) Frontal area under 20 square feet. (2) Automatic transmission not to be used for trailer towing on ZX2. (3) 1,600 (Wagon)/1,750 (Sedan) Max. Gross Trailer Weight and 160/175 Max. Tongue Load with optional Duratec engine and only driver and one passenger with no cargo. When towing on roads with steep grades or moderate but long sustained grades (5 miles or more), or when ambient temperatures exceed 100 degrees F, vehicle speed should not exceed 45 MPH in both cases.

\* Auxiliary transmission oil cooler recommended for automatic transmission during long-distance hauling (greater than 50 miles); see vehicle's Owner Guide for complete towing requirements.

**M** Metric Conversion – To obtain information in kilograms, multiply pounds by .45; to obtain information in square meters, multiply square feet by .09; to obtain information in centimeters, multiply inches by 2.54; to obtain information in kilometers, multiply miles by 1.6.

# TRAILERING TIPS

## Trailer Tips

Trailer towing is a special driving situation which places extra demands on your driving skills. We have included a few basic tips that you should know in order to transport your trailer and its contents safely, comfortably and without abusing the towing vehicle:

### Weight Distribution

- For optimum handling, the trailer must be properly loaded and balanced.
- Keep center of gravity low for best handling.
- Approximately 60% of the cargo weight should be in the front half of the trailer and 40% in the rear (within limits of Tongue Weight).
- Load should also be balanced from side to side for good handling and proper tire wear.
- Load must be firmly secured to prevent shifting during cornering or braking, which could result in a sudden loss of control.

### Before Starting

- Before setting out on a trip, practice turning, stopping and backing up your trailer in an area away from heavy traffic.

### Backing

- Back slowly, with someone outside at rear of trailer to guide you.
- Place one hand at bottom of steering wheel and move it in the direction you want the trailer to go.
- Make small steering inputs ... slight movement of steering wheel results in much greater movement in rear of trailer.

### Braking

- Allow considerably more distance for stopping with trailer attached. (See page 12)
- If you have a manual brake controller, "lead" with trailer brakes, if possible.
- To correct trailer side-sway, touch trailer brakes momentarily without using vehicle brakes.

### Downgrades and Upgrades

- Downshifting assists braking on downgrades and provides added power at the drive wheels for climbing hills.

### Parking with a Trailer

- Whenever possible, vehicles with trailers should not be parked on a grade. However, if it is necessary, place wheel chocks under the trailer's wheels as follows:

- Apply the foot service brakes and hold.
- Have another person place the wheel chocks under the trailer wheels on the downgrade side.
- Once the wheel chocks are in place, release foot service brakes, making sure that the chocks are holding the vehicle and trailer.
- Apply the parking brake.
- Shift the transmission into P (PARK) with an automatic transmission and make sure it is latched there. If your vehicle has a manual transmission, put the gearshift lever in R (REVERSE).  
*NOTE: With 4-wheel drive, make sure the transfer case is not in N (NEUTRAL) (where applicable).*
- To start, after being parked on a grade:
  - Apply the foot service brake and hold.
  - Start the engine with the gearshift selector lever in P (PARK) on automatic transmissions or N (NEUTRAL) on manual transmissions.
  - Shift the transmission into gear and release the parking brake.
  - Release the foot service brakes and move the vehicle uphill to free the wheel chocks.
  - Apply the foot service brakes and hold while another person retrieves the chocks.

### Acceleration and Passing

- The added weight of the trailer can dramatically decrease the acceleration of the towing vehicle — exercise caution.
- If you must pass a slower vehicle, be sure to allow extra distance ... remember, you also have the added length of the trailer which must clear the other vehicle before you can pull back in.
- Make your pass on level terrain with plenty of clearance.
- If necessary, downshift for improved acceleration.

### Driving with an Automatic Overdrive Transmission

- With certain car and compact truck automatic overdrive transmissions, towing — especially in hilly areas — may result in excessive shifting between overdrive and the next lower gear.
- If this occurs, it is recommended that the overdrive gear be locked out to eliminate the condition and provide steadier performance (see your vehicle's Owner Guide for information).

- When there is no excessive shifting, use the overdrive gear for optimum fuel economy.
- Overdrive also may be locked out to obtain engine braking on downgrades.

### Driving with Speed Control

- When driving uphill with a heavy load, significant speed drops may occur.
- A speed drop of more than 8 to 14 mph will, by design, cancel the automatic speed control.
- Temporarily resume manual control through the vehicle's accelerator pedal until the terrain levels off.

### Tire Pressure

- Underinflated tires get very hot and can lead to tire failures and possible loss of vehicle control.
- Overinflated tires can cause uneven tire wear.
- Tires should be checked often for conformance to cold inflation pressures recommended on the Safety Compliance Certification Label for original equipment tires.

### Spare Tire Use (Car Applications)

- A conventional full-size spare tire is required for trailer towing (mini spare tires should not be used).

### On the Road

- After about 50 miles, stop in a protected location and double-check:
  - Trailer hitch attachment.
  - Lights and electrical connections.
  - Trailer wheel lug nuts for tightness.
  - Engine oil ... check regularly throughout trip.

### High Altitude Operation

- Since gasoline engines lose power at a rate of 3% to 4% per 1,000 ft. elevation, a reduction in gross vehicle weights and gross combination weights of 2% per 1,000 ft. elevation is recommended to maintain performance.

### Powertrain Considerations

- The charts in this guide show the minimum engine size needed to move the gross combination weight of the tow vehicle and trailer.
- Under certain conditions, however, (e.g., when the trailer has a large frontal area that adds substantial air drag or when trailering in hilly or mountainous terrain) it's wise to choose a larger engine.

**NOTE:** For additional trailering information pertaining to your Ford vehicle, refer to the vehicle's Owner Guide.

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**M** Metric Conversion – To obtain information in centimeters, multiply feet by 30; to obtain information in kilometers, multiply miles by 1.6.

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