# 1987 FORD RECREATION VEHICLE & TRAILER TOWING GUIDE



...putting it all together for outdoor fun!

### **FORD RVs**

### For the Pure Fun of it!

On mountain trails or four-lane expressways, Ford turns miles into smiles. How? It's easy, because Ford's roundup of recreational and trailer-towing vehicles is designed, engineered and built for the outdoor purist who takes fun very seriously. In 1987, more than ever before, Ford is putting it all together for outdoor fun.

RV drivers are demanding drivers and Ford knows how to meet their demands. Consumer research guides Ford engineers every step of the way. Leadership in overall truck sales for 11 of the last 15 years proves that Ford listens—then responds.

For example, customers say they want POWER to match the RV job to be done. Ford responds with a full-line of power-trains for RV and trailer towing use. (Engine/Powertrain details on page 3)

RV enthusiasts also want driving performance. For danswers this consumer demand by introducing a new rear wheel antillock brake system on certain models. And this is just one of the many driving-performance features added by Ford in 1987. Your Ford Dealer will be glad to show these new features to you model-by-model.

When it comes to QUALITY, Ford lives by it. Vehicle testing procedures are state-of-the-art and beyond for only one reason: to bring Ford drivers the best available.

Ford puts it all together for outdoor fun. So, if it's recreation, business, or both, the Ford roundup of recreational and trailer-towing vehicles is ready for your inspection and selection.

### **RV ROUNDUP**

Whether it's fields, streams, lakes or slopes— Ford and Ford Dealers have the vehicle for you. Your lifestyle, your interests, your budget—Ford responds to your needs. You local dealer works hand-in-hand with leading motorhome body fabricators and custom conversion companies. This teamwork provides a wide selection of floor plans, body styles and sizes, color/trim and accessories. Here's where to find information on the

styles and sizes, color/trim and accessories.

Here's where to find information on the Ford RV that will add a lot of pure family fun and pleasure to your life.

### **Full Size Van Conversions**

### Motorhomes—Class C

### Motorhomes—Class A

### Aerostar Custom Conversions

When you wish upon a star—make it a Ford Aerostar. If you're wishing for a tough & sturdy minivan that handles like a car, can be custom converted, and tows trailers too, check page .......10

### Camper Caps/ Slide-In Campers

There are many camper caps and slide-in campers for your selection. Whichever camper style fits your recreational requirements, matchmaker Ford Dealers have a camper-certified truck, compact or full size, to meet your re

### TRAILER TOWING

If either your fun-plans or business-plans call for proficient trailer towing, your Ford Dealer is at your service. Trailering is a matter of balance. Balancing the tow vehicle's power and weight to the type of trailer and its load is a "balancing act" best left to the pro your Ford Dealer. See why on page ...12-13

### Ford Cars and Compact Trucks

For pulling power when you need it, Ford cars and compact trucks—(Ranger, Bronco III and Aerostar) are ready for the short or long haul. To be sure they're equipped properly for towing and to check load limits, see page .

### Econoline Van/Club Wagon

If your recreational or business towing task runs into tons, Ford "can do." King-size trailers (up to 10,000 poundst) are no problem for a Ford Econoline Van or Club Wagon that's properly powered and equipped.

See page . 15

### F-Series Pickup/Bronco

Here come the super heavyweights for real heavy-duty trailering. Whether it's "gay-load" or "play-load", Ford's wide choice of engines and transmissions will allow you to match the towing task. 2- and 4-wheel drive plus "up to six" seating proves Ford's versatility as well as utility. Details on page ...16

### F-Series Fifth-Wheel

If you have an unusually heavy load (over six tons) you may need a special fifth-wheel application. When the load gets tough, Ford trucks get tougher. See how on page ... 17

### FORD WORKHORSES Rugged, Tough and Ready

Cargo meets its match with a Ford powerpack. Light loads are handled with horsesto-spare, in Ford passenger cars and compact trucks. If your work, or fun, runs more to the heavy-duty side, you'll need the sheer brawn of full-size vehicle engines. Whatever your needs, there's a Ford vehicle/engine combo right for the job.

#### 4.9L EFI 16

New for 1987! The industry's biggest 6-cylinder engine is made more powerful and efficient with the addition of multiple-port electronic fuel injection.\* It delivers even more horsepower and torque with no sacrifice in fuel economy:\* A workhorse in commercial applications, the 4.9L EFI is capable of towing trailer loads up to 7,100 pounds.

### 5.0L EFI V-8

The most powerful small V-8 in the industry, using multiple-port electronic fuel Injection, has been improved for 1987. This rugged engine is well-known for its towing capacity, fuel economy, \* smoothness and fun-to-drive response. Ford trucks can handle up to an impressive 12,500 GCWR when equipped with this powerplant.

### 5.8L-HO V-8

The mid-size V-8 that provides outstanding true-truck performance. It sports a four-barrel carburetor so that vehicles equipped with this engine can handle over 9,000 pounds on a trailer hitch with ease.

### 6.9L V-8 Diesel

This Ford-Tough Diesel is the industry power-leader for light-duty trucking chores and can tow up to 9,400 pounds in a properly equipped vehicle.

### 7.5L EFI V-8

Currently the largest and most powerful light truck engine available. In the Spring of 1987 the 7.5L engine is scheduled to receive portype electronic fuel injection (EFI), providing gains in performance, economy and driveability. It allows vehicles to do BIG jobs, like towing 12.500 pounds with a fifth-wheel application at a remarkable 18,500 GCWR.

### A Word About GCWR

GCWR is the abbreviation for Gross Combined Weight Rating; the combined weight of the tow vehicle (including passengers, cargo and additional equipment) and the loaded trailer. The charts below specify the GCWR that each Ford engine/axle combination can handle. Calculate your approximate GCWR; find it across the top of the chart, and read down that column to find the engine and axle ratio for your towing job.

### **Picking Your Power**

Matching the right powertrain to the load is a critical element. It results in peak performance and a smooth ride as well as economy. In the charts below, and on pages 14-17, you'll find it easy to pick the Ford horsepower you'll need.

\*See your Ford Dealer for availability of EFI on Econoline models.

\*\*See note on fuel economy on page 19

### W/AUTOMATIC TRANSMISSION

Max. GCWR (lb.)	6,000	6,100	7,500	8,000	8,500	9,000	10,000	10,500	11,000	11,500	12,000	12,500	13,500	14,000	15,000	18,500
ENGINES							REAR	<b>AXLE R</b>	ATIOS							
2.3L I-4 EFI (1)	3.73															
2.9L V-6 EFI (2)	1000		3.45	3.73	4.10											10000
3.0L V-6 EFI (2)			3.45	3.73	4.10											
4.9L I-6 EFI (4)		2.73				3.08	3.54 3.55	3.73	4.10							
5.0L V-8 EFI (4)				100		3.08			70.0		3.73	4.10				
5.8L V-8 4V (4)						3.08				3.54 3.55		3.73	4.10			
6.9L V-8 Diesel (4)					4.63						3.54 3.55			4.10		
7.5L V-8 4V (4) (5)															3.54 3.55	4.10

#### W/MANUAL TRANSMISSION

Max. GCWR (lb.)	3,860	4,500	4,800	5,000	6,000	6,450	7,800	10,000	11,000	11,500	12,000	14,000	16,000
ENGINES						REAR	AXLE R	ATIOS					
2.0L I-4 2V (1)	3.45												
2.3L I-4 Turbo Diesel (1)		All											
2.3L I-4 EFI (1)			3.45 3.73										
2.9L V-6 EFI (3)				3.45	3.73								
3.0L V-6 EFI (3)				3.45	3.73								
4.9L I-6 EFI (4)						3.08	3.55	4.10					
5.0L V-8 EFI (4)						3.08	3.55 3.73	4.10					
5.8L V-8 4V (4)									3.55 4.10				
6.9L V-8 Diesel (4)											3.55	4.10	
7.5L V-8 4V (4) (5)	0.58						1			3.55			4.10

NOTE: Engine/Axle Ratio Combinations shown may not be available on all vehicles/in all areas. Your Ford Dealer can supply availability information.

- (1) Trailer frontal area is not to exceed the frontal area of the pulling vehicle.
- (2) Maximum GCWR 5,500 lbs. and trailer frontal area is not to exceed the frontal area of the pulling vehicle on: Ranger without optional Payload Package No. 2 and Super Cooling, Aerostar and Bronco II without optional Super Cooling. Trailer frontal area is not to exceed 50 s. ft. on altorrementioned models with optional equipment specified.
- (3) Trailer frontal area is not to exceed the frontal area of the pulling vehicle with 3.45 axle ratio; trailer frontal area is not to exceed 50 sq. ft. with 3.73 axle ratio on; Ranger with Payload Package No. 2 and Super Cooling; Aerostar and Bronco Il with potional Super Cooling.
- (4) Trailer frontal area is not to exceed frontal area of the pulling vehicle with 4.9L/2.73 axle ratio and all other engine/axle ratio combinations without optional Super Cooling; trailer frontal area is not to exceed 60 sq. ft. with all engine/axle combinations with optional Super Cooling except 4.9L/2.73 axler atto.
- (5) 7.5L EFI engine will be introduced in the Spring of 1987. The maximum GCWR for manual transmission/3.55 axle ratio will increase to 12,000 lbs.

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# MOTORHOMES CLASS C

Here comes Ford Fun

No outdoor lover should miss the pure joy of No outdoor lover should miss the pure by or a motorhome. Ford motorhomes practically invite you to hop in—get going—find your place in the sun. It can take you on vaca-tion—it can be a vacation. The Ford Class C motorhome is the practical and versatile approach to RV living at its best.

### The Ford Foundation— For Fun

FOR FUN
Ford's Econoline RV Cutaway chassis is the foundation for the finest Class C motorhomes for the eightles. This industry leading platform is offered in a choice of 3 wheelbases and has full-length siderails and seven-crossmember body-on-frame construction. This provides truck-tough sturdiness and roadability. Class C bodies up to 30 feet in length can be built onto this Econoline Cutaway chassis and it boasts a Gross Vehicle Weight Rating (GWB) of up to 11 000 pounds. (GVWR) of up to 11,000 pounds.

A 38 gallon aft-of-rear-axle single fuel tank provides great design flexibility and the convenience of fewer stops for refueling.

### **Cruising Comfort** at Your Doorstep

When you step into your motorhome's Econoline cab, you're stepping into real driving comfort and convenience. And, entry couldn't be easier! Wide-opening doors with low step-height provides easy access to generous and comfortable interior space.

Conveniences abound, at your option, making the comforts of home a reality, fore as well as aft. Smooth driving? You bet—thanks to Twin-I-Beam independent front suspension. Wheel vibrations and road shocks are sion. Wheel vibrations and road shocks are further softened by unique rubber body mounts and frame spacers. The bottom-line is—your Ford Class C motorhome is as easy and fun to drive as a van.

### **Horses For Your Kingdom**

Ford power has horses to spare for any Class C castle on wheels. Your Ford Dealer can recommend the right powerplant for your specific needs. Proven gasoline or diesel engines are available.

The brawny 5.8L High-Output V-8 is a natural for the small-to-medium Class C applications. For Heavy-Duty moving at higher gross vehicle weights, the Ford 7.5L V-8\* will handle it with ease. Also available: the industry's most powerful light truck diesel engine—Ford's 6.9L V-8.

\*See your Ford Dealer about the availability of electronic fuel injection (EFI).

### Any Questions?

Your Ford/RV Dealer is a professional who is knowledgeable on motorhomes. Their advice is free and they want your motorhome to fit your family life style. Protect your purchase. Let those who know help you select the features that provide comfort, efficiency, performance and convenience.



### MOTORHOMES CLASS A Homes in Motion Season Ticket to **Ford Construction** Carefree GO-POWER Comfort-ahh-ble Too! More driver room, passenger room and More driver room, passenger room and walk-through convenience are the results. Adding to the driver's comfort and conven-ience, Ford offers these standard features: 5 position till steering wheel, automatic trans-mission, and speed control. Class-AHH, comfort all the way. Whether it's a weekend for the kids at a nearby theme park or a faraway wilderness river trip for the grown-ups, sensible driving comfort is important. Comfortable driving has always been an up-front priority for Ford. Ford's Class A chassis/engine combination makes it easy to handle and a pleasure to drive. The out-front engine design positions the powerplant and front wheels forward to minimize the size of the engine cover in the driving compartment. Ford Engineers are dedicated to quality. This dedication is evident in every inch of the special Econoline RV chassis for Class Ford's 7.5L V-8 engine is the powerhouse for this Class A motorhome. This heavy-duty engine is the industry's most powerful in the the Great Outdoors As the owner of a Class A motorhomeyou'll never leave home, because your home engine is the industry's most powerful in the light-truck class. And in the Spring of 1987 it will include the precise fuel metering and performance benefits of multi-port electronic fuel injection. The 7.5L makes motorhome driving fun. you'll never leave home, because your home comes with you. If "going places" is one of your favorite things—your favorite motor-home will be a Ford, and you'll know it the minute you roll out of the driveway. Ford starts with a tough, heavy-duty RV chassis and a rugged, responsive powertrain—both designed, engineered and built for the popular 22 '27' motorhome bodies. A motorhomes. Low, wide frame rails and Twin-I-Beam independent front suspension smooth the ride and tame the roads. Design smooth the ride and tame the roads. Design flexibility reaches new dimensions with Ford's Class A end-to-end flat floor platform. Individually yours—the floorplans and furnishings can reflect what you and your family desire. And, for the motorhome builder, it's a sturdy foundation that provides virtually limitless opportunity to create a strong, functional motorhome body with economical aerodynamics. driving compartment.

## **AEROSTAR** Catch a Rising Star

Yes, a rising star that's catching on all over the country—it's Ford's Aerostar. To sum it up, it just plain does more—for less. It's roomy, comfortable, convenient and has the toughness of a traditional van. Yet it has the maneuverability and garageability of a sedan. The Aerostar can play many roles on both the recreation and professional stage. It distinguishes itself as a payload carrying efficient workhorse, but it also earns plaudits for sleek aerodynamic styling, operating economy, easy handling and capacity to carry up to 7 people with optional seating arrangements.

### The Versatility

The best seats in the house can be almost anywhere you want them. Aerostar models arrywhere you want them. Aerostar models are designed to allow for a variety of seating arrangements. Seating options include Quad Captain's Chairs or a handy seat/bed\*\* ideal for long vacation trips. Up front choices include Captain's Chairs or one or two bucket seats. Cargo and/or passenger loading is made easy with Aerostar's flat floor, large front doors, wide sliding side door and fullwidth rear liftgate. The Aerostar is a star of the greatest magnitude when it comes to versatility. Your Ford Dealer can help you select the just-right combination for your pleasure or business needs.

### The Star of RV Conversion

With a RV prep model Aerostar, you're ready for a first-class conversion to luxury travel or camping. These specially prepared models are readily adaptable to customizing.

And, since they are uniquely designed with a floor plan for van conversion, they're less expensive to complete. Your Ford Dealer can show you a constellation of Aerostar possibilities.

#### **Star Power**

Peak overall performance is provided with Aerostar's 3.0L EFI V-6 engine. It's got the "pull" for up to a 4,900 pound trailer load too. On van models only, a 2.3L EFI engine is standard. This peppy powerplant is a model of efficiency and economy."

#### AEROSTAR TRAILER-LOAD RANGE

2.800-4.900 (automatic) 1,500-2,700 (manual) -depending on model, engine, axle ratio and other required equipment.

\*See note on fuel economy on page 19
\*\*See your Ford Dealer for availability Note: All maximum trailer weights shown must be reduced by passenger and cargo weight in the towing vehicle. SEE PAGE 14 FOR SPECIFICATIONS

# CAMPER CAPS & SLIDE-IN CAMPERS

### Ford Pickups for a "Pick Up and Go" Vacation

Ford F-series pickups, the best selling camper carriers in America, and the sporty Ford Ranger cover everyone's camper requirements. You can choose either 2- or 4-wheel drive and a variety of wheelbases, cab styles and powertrains. The Ranger 4 x 4 STX High Rider includes a unique suspension system that raises the vehicle height and is designed to satisfy the funloving Ford buyer who desires better offroad handling and a sportier appearance.\*
The chart at right can help you match your load to the pickup most suited to carry it.

Note: All Ford pickups qualified for slide-in camper bodies will Note: All Ford pickups qualified for side-in camper bodies will have maximum camper/cargo weight and center of gravity location information on the Truck Consumer Information Sheet in the glovebox. Your Ford Dealer will review Ford Required Minimum Equipment and Recommended Equipment to ensure you'll have a complete component package to meet your

### Slide-in Camper Data Ranger & F-Series Pickups

		Minimur	m Equipment		
MODEL		W.B.	GVWR (1)	ENGINE	RECOMMENDED AXLE RATIO
Ranger (5)	4X2 Reg. Cab 4X4 Reg. Cab	107.9" 113.9" 107.9" 113.9"	4,460 4,500 4,480 4,500	2.3L EFI-I4 (2) 2.3L EFI-I4 (2) 2.3L EFI-I4 (2) 2.3L EFI-I4 (2)	3.73 (2) 3.73 (2) 3.73 (2) 3.73 (2)
F-150 (3)	4X2 Reg. Cab	133.0"	6,250	V-8	3.55
	4X4 Reg. Cab	133.0"	6,250	V-8	3.55
F-250 (3)	4X2 Reg. Cab	133.0"	6,400	V-8	3.55
	4X4 Reg. Cab	133.0"	6,600	V-8	3.55
F-250HD (3)	4X2 Reg. Cab	133.0"	8,600	V-8	3.55 (6)
	Super Cab	155.0"	8,800	V-8	3.55 (6)
	4X4 Reg. Cab	133.0"	8,600	V-8	3.55 (6)
	Super Cab	155.0"	8,800	V-8	3.55 (6)
F-350 (3)	4X2 Reg. Cab	133.0"	10,000	V-8	4.10 (7)
	Crew Cab	168.4"	9,200 (4)	V-8	4.10 (7)
	4X4 Reg. Cab	133.0"	9,000	V-8	4.10 (7)
	Crew Cab	168.4"	9,200	V-8	4.10 (7)

NOTE: If you intend to pull a trailer in addition to carrying your camper, refer to the section in this catalog on the specific pickup you'll use, for detailed towing specifications.

- ) The combined weight of any camper body, occupants and equipment when added to the vehicle weight must not exceed Gross Vehicle Weight Rating
- Required minimum ratio with 2.3L EFI I-4. 2.9L EFI V-6 engine is recommended.
- B) Requires optional Handling Package or the Trailer Towing/Camper Package. Not available with 3-speed manual or 4-speed manual overdrive
- 4) 10,000 lbs. GVWR for Dual
- (5) Requires Camper Package. Combined Frontal Area of vehicle and camper must not exceed 45 sq. ft. New 4 × 4 STX High Rilder is not recommended for camper
- (6) 4.10 with 5.8L V-8 engine.
- (7) 3.55 with 6.9L Diesel and 7.5L V-8 engines.



# TRAILER-TOWING Ford's got the Pull

Tackling a trailer-towing task? Ford trucktough vehicles are for you. They'll deliver unquestionable authority to the job to be done, whether it's a fun-load or a businessload. After you've decided which trailer you'll need—let Ford make the rest of it easy for you. Your Ford Dealer is a matchmaker. He's been matching Ford vehicles to all sizes and types of trailers for a long time.

Generally, trailers fall into one of three weight classifications: Light-Duty (Class I), Medium-Duty (Class II) and Heavy-Duty (Classes III & IV). These classes identify the effective maximum weight that can be towed by a vehicle. Determine what your current towing plans will include—then think about what they may be in the future. With this in what they may be in the induce, with this in mind, you can now choose the Ford vehicle and powertrain you'll need for your trailering requirements. A review of the following infor-mation will convince you that there's a Ford in your trailering future.

### **Light-Duty Trailers** (Class I)

The maximum weight for this class (cargo and trailer combined) is 2,000 pounds. As an and trailer combined) is 2,000 pounds. As ar example, small boats and pop-up campers usually fit into this Class I category. Many Ford cars and trucks "meet this load chal-lenge with power to spare. Escort. Tempo and Mustang and Taurus are limited to a 1,000 pound gross towing weight.

Note: Vehicles equipped with turbocharged engines are not recommended for trailer towing.

\*New "High Rider" Ranger STX 4 x 4 is not recommended for

### Medium-Duty Trailers (Class II)

This class includes gross weights between 2,001 and 3,500 pounds. Typical of this group would be single-axle travel trailers. Full-size Ford passenger cars, such as the LTD Crown Victoria/Country Squire and all properly equipped Ford trucks are rated for towing Class II loads.

### Heavy-Duty Trailers (Classes III & IV)

The Class III category covers the gross weight range from 3,501 to 5,000 pounds. Trailers in this class have either a dual-axle or a large single axle. Ford's LTD Crown Victoria and all trucks" can manage these loads when properly equipped and with the appropriate powertrain combination and weight distribution hitch.

Class IV gross-trailer weights are 5,001 to 10,000 pounds. Properly outfitted Econo-

line vans and Club Wagons, F-series Pickups, and Broncos can handle this trailering. With a fifth-wheel application, certain F-series models can handle trailer loads up to 12,500 pounds.

In commercial applications, Ford offers In commercial applications, Ford others functionally light-duly trucks with mediumduty capability; specially modified light trucks to handle unique towing requirements; and a Dual Rear Wheel Regular Cab and Crew Cab for the trailering 'pros." To help you find the right vehicle for the job, see your Ford Dealer and the specification charts on pages 14 through 18.

Note: All maximum trailer weights shown must be reduced by passenger and cargo weight in the towing vehicle.

"New "High Rider" Ranger STX 4 × 4 is not recommended for

# TRAILER TOWING WITH FORD CARS OR COMPACT TRUCKS

### A Note About Ford Cars and Compact Trucks

Properly equipped, Ford cars and compact trucks can do an astoundingly hefty job of trailering. In fact, up to 5,000 pounds (trailer and load) for cars; and up to 5,600 gross pounds for compact trucks. The charts will show specifications details.

To use the FORD CARS chart, find the car model across the top, then read down that column to find what weight that model can tow and what engine is most appropriate.

To use the FORD COMPACT TRUCK chart, find the truck model across the top, then read down that column to find the maximum trailer weight you have to pull, then read across to the left to find the axle ratio and engine required.

The column marked "GCWR MAX" gives the Gross Combined Weight Rating (see definition on page 19).

### Ford Cars

	CROWN V		THUNDERBIRD (1)	TEMPO	MUSTANG	ESCORT	TAURUS
TOWING CLASS	HEAVY- DUTY III	LIGHT- DUTY I	LIGHT- DUTY I	LIGHT- DUTY I (2)	LIGHT- DUTY I (2)	LIGHT- DUTY I (2/3)	LIGHT- DUTY I
Gross Trailer Weight (lbs.)	5,000 or less (4)	2,000 or less	2,000 or less	1,000 Max.	1,000 Max.	1,000 Max.	2,000 Max (5)
Maximum Tongue Load (lbs.)	750	200	200	100	100	100	100
Minimum Engine	5.0L V-8	5.0L* V-8	3.8L* V-6	2,300 HSC* 4-Cyl.	2.3L OHC* 4-Cyl.	1.9L CVH* 4-Cyl. (3)	3.0L* V-6

Turbocharged engine not to be used for trailer towing.
 Frontal area under 20 square feet.

(2) Frontal area under 20 square feet.
(3) 4-spd. transaxle w/FS 2.85:1 Transfer
Ratio not to be used for trailer towing.
(4) Require Trailer Towing Package and Load

Equalizing Hitch.

(5) When the geographic location for your planned trailer-towing is in relatively flat country (interstate highways in non-

mountainous areas generally fall into this category) and ambient temperatures do not exceed 100 degrees F, you can increase the maximum trailer weight to 2.000 lbs (200 lbs tongue load). On roads with steep grades or moderate but long sustained grades (5 miles or more), the 1,000 lbs maximum gross trailer weight limit should be followed and vehicle speeds should not

NOTE: Trailer Towing Packages vary in content with certain powertrains. See individual car catalogs for contents.

\*Aftermarket auxiliary transmission oil cooler recommended for long distance, high speed towing with automatic transmission.

### Ford Compact Trucks

				RAN	CER						
ENGINE	AXLE RATIO	GCWR MAX.	REGI C	ULAR	SU	PER AB	BRO	NCO II	AEROSTAR		
			4x2	4x4 (2)	4x2	4x4	4x2	4x4	VAN	WAGON	
2.3L I-4 EFI	3.73	6,000*	3,100°	-	2,800	-	-	-	2,800	-	
2.9L V-6 EFI	3.45 3.73 4.10	7,500 8,000 8,500	4,600 - 5,600	- 4,800 5,300	4,300 - 5,300	- 4,500 5,000	- 4,700 5,200	- 4,500 5,000	-	=	
3.0L V-6 EFI	3.45 3.73 4.10	7,500 8,000 8,500	1 - 1	-	-		1 1 1		4,200 4,700 (1)	3,900 4,400 4,900	
**		TRAIL	R WEIG	HT (MAX	) W/MAI	NUAL TR	ANSMIS	SION			
2.0L I-4 2V	3.45			-	-	-	-	-	-	-	
2.3L I-4 EFI	3.45 3.73	4,800° 4,800°	2,000* 2,000*	1,800	1,700	1,500	=	=	1,600 1,600	Ξ	
2.3L I-4 Turbo Diesel	All	4,500	1,400	1,100	=		-	-	=	-	
2.9L V-6 EFI	3.45 3.73	5,000 6,000	2,100 3,100	1,900 2,900	1,800 2,800	1,600 2,600	=	1,600 2,600	=	Ξ	
3.0L V-6 EFI	3.45 3.73	5,000 6,000	_	=	=	=	- =	Ξ	1,700 2,700	1,500 2,500	

Note: Required and Recommended Equipment Charts can be found on page 18. \*GCWR not to exceed GVWR on Ranger w/2.0L engine or with manual brakes.

NOTE: Engine/Axie ratio combinations shown may not be available on all vehicles in all areas. Your Ford Dealer can supply availability information.

(1) Maximum GCWR 8500 lbs. Maximum trailer weight will vary as the 4.10 ratio is available with RV Prep Van only.

(2) High Rider Ranger not recommended for trailer towing applications.

# TRAILER TOWING WITH ECONOLINE VANS OR CLUB WAGONS

### All This and a Trailer Too?

With a van or wagon full of family and rec equipment can you still take your boat? You bet you can! Both the Ford Econoline and the Club Wagon have the brawny, robust power to take on the really big trailering assignments. When equipped with the available 7.5L V-9 engine", your Ford vehicle boasts a maximum trailer-weight rating of 10,000 pounds. A 6.9L Diesel V-8 can pull a trailer up to 8,000 pounds on the Club Wagon and up to 8,400 pounds on the Econoline.

To use the chart, find the van or wagon model across the top, then read down that column to find the maximum trailer weight you have to pull. Reading across, to the left, you'll find the engine and axle ratio required as well as the maximum Gross Combined Weight Rating (see definition on page 19).

\*Ask your Ford Dealer about the availability of the 4.9L and 7.5L EFI engines.

ENGINE	AXLE	GCWR	R	EGULAR VA	N		SUPER VAN		CLUB V	VAGON	SUPER
	RATIO	MAX.	E-150	E-250	E-350	E-150	E-250	E-350	E-150	E-250	E-350
4.9L I-6 EFI (1)	3.08 3.54 3.55 3.73 4.10	9,000 10,000 10,000 10,500 11,000	4,600 5,600 —	5,200 5,700	- - - 6,100	5,400 —	5,100 5,600	- - - 5,900	5,300 —	- - - 5,700	- - - 5,300
5.0L V-8 EFI	3.55 3.73	11,500 12,000	7,200 —	7,300	Ξ	6,900 —	7,100	Ξ	6,800	Ξ	Ξ
5.8L V-8 4V	3.08 3.54 3.55 3.73 4.10	9,000 11,500 11,500 12,500 13,500	4,600 7,100 —	6,700 7,700	6,500 — 8,500	6,800 —	6,500 - 7,500	6,400 - - 8,400	6,700 —	6,100 — 8,100	5,800 - 7,800
6.9L V-8 Diesel	3.54 4.10	12,000 14,000	I	- 2	6,400 8,400	Z	=	6,200 8,200	Ξ	6,000 8,000	5,700 7,700
7.5L V-8 4V (1)	3.54 4.10	15,000 18,500	=	_	9,800 10,000	Ξ	=	9,600 10,000	=	9,400 10,000	9,000
		TRA	ILER W	EIGHTS	(MAX) \	W/MANU	IAL TRA	NSMISS	ION		
4.9L I-6 EFI (1)	3.55	7,800	3,500	-	-	3,200	-	-	3,100	-	-

(1) Ask your Ford Dealer about the availability of the 4.9L and 7.5L EFI engines.

Note: Required and Recommended Equipment on page 18.

# TRAILER TOWING WITH F-SERIES OR BRONCO

### The Heavyweight Champs

The F-Series and Broncos have both earned championship belts in the heavyweight division. The Bronco can conquer loads up to 7,900 pounds trailer weight. The F-Series models easily handle up to 10,000 pounds or 12,500 with fifth-wheel application. In this weight range, it's very important to match powertrains, axles and special equipment to the job to be

done. On the chart below find the truck model across the top, then read down that column to find the maximum trailer weight you have to pull. Reading across, to the left, you'll find the axle ratio and engine required as well as the maximum Gross Combined Weight Rating (see definition on page 19).

				donastilis	Part Colombia		(MAX)			1		B PICKI		CREW CA	B PICKUP	BBONCO
ENGINE	AXLE RATIO	GCWR MAX.	F-150 4x2	F-150 4x4	F-250 4x2	F-250 4x4	F-250 H.D. 4x2	F-250 H.D. & F-350 4x4	F-350 DRW 4x2	F-150 4x2	F-150 4x4	F-250 H.D. 4x2	F-250 H.D. 4x4	F-350 4x2	F-350 4x4	4x4
4.9L I-6 EFI	2.73 3.08 3.55 4.10	6,100 9,000 10,000 11,000	2,200 5,100 6,100	_ 5,900 _	_ 5,800 _	1111	_ 	1111	1111	_ 5,600 _	1.13.1	1111	1111	1111	1111	5,300
5.0L V-8 EFI	3.08 3.55 4.10	9,000 11,500 12,500	5,100 7,600 —	7,400- 8,400	- 8,300	_ 8,100	=	-	111	7,100	6,900 7,900	1 1 1	111	1-1	1-1	6,900 7,900
5.8L V-8 4V	3.08 3.55 4.10	9,000 11,500 13,500	5,000 7,500 —	7,300 —	7,200 9,200	7,000 9,000	7,100 9,100	6,700 8,700	6,800 8,800	7,000	6,700	6,600 8,600	6,200 8,200	6,100 8,100	6,000 8,000	6,800
6.9L V-8 Diesel	3.55 4.10	12,000 14,000	1.1	-	Ξ	_	7,100 9,100	6,600 8,600	6,700 8,700	-	-	6,500 8,500	6,100 8,100	6,100 8,100	5,900 7,900	Ξ
7.5L V-8 4V (1)	3.55 4.10	15,000 18,500	1.1	_	Ξ	_	10,000 10,000	10,000 10,000	10,000 10,000	-	-1	9,900 10,000	9,500 10,000	9,500 10,000	9,300 10,000	=
			TR	AILE	R WE	IGHT	S (MAX	W/MAN	IUAL	TRA	NSM	SSIO	N			
4.9L I-6 EFI	3.08 3.55 4.10	6,450 7,800 10,000	2,500 3,900 —	2,300 3,600	3,600	3,400	_ 5,700	-	111	3,500	3,100	5,200	111	111	1	1,800 3,200
5.0L V-8 EFI	3.08 3.55 3.73 4.10	6,450 7,800 7,800 10,000	2,600 3,800 —	3,600	_ 3,600 5,800	3,400	1	=	1111	3,300	3,100 	1111	1111	1111		3,100
5.8L V-8 4V	3.55/4.10	11,000	-	-	-	-	6,600	6,100	6,300	-	-	6,000	5,700	5,600	5,400	-
5.9L V-8 Diesel	3.55 4.10	12,000 14,000	1 1	_	Ξ	_	7,000 9,000	6,600 8,600	6,700 8,700	=	_	6,500 8,500		6,000 8,000	5,900 7,900	_
7.5L V-8 4V (1)	3.55 4.10	11,500(2) 16,000	-	_	Ξ	_	6,900	6,400	6,600	_	_	6,300	6,000	5,900 10,000	5,700 10,000	_

(1) Ask your Ford Dealer about the availability of new multi-port electronic fuel injection (EFI).

(2) 12,000 lb. maximum GCWR with introduction of EFI.

Note: Required and Recommended Equipment on page 18.

# TRAILER TOWING WITH F-SERIES/FIFTH-WHEEL

### **Special Applications**

No matter how tough the trailer towing job may be, Ford provides the power and vehicle combination to get it done. This includes fifth-wheel applications for big trailer towing. Trailering pros have asked for Dual Rear Wheel Crew and Regular Cab models and Ford provides them. And new for 1987½, Ford introduces an exclusive...The new Dual Rear Wheel Super Cab! Virtually anything and everything needed to pull trailers is available from Ford. Use the chart

below to see how fifth-wheel application can meet your requirements. Find the truck model across the top, then read down that column to find the maximum trailer weight you have to pull. Reading across, to the left, you'll find the axler ratio and engine you'll need to do the job and the maximum Gross Combined Weight Rating (see definition on page 19).

					REG	ULAR	CAB PIC	KUP		S	UPERC	AB PICK	UP	CREW CA	B PICKUP	REG	ULAR CHA	SSIS CAB
ENGINE	AXLE RATIO	GCWR MAX.	F-150 4x2	F-150 4x4	F-250 4x2	F-250 4x4	F-250 H.D. 4x2	F-250 H.D. & F-350 4x4	F-350 DRW 4x2	F-150 4x2	F-150 4x4	F-250 H.D. 4x2	F-250 H.D. 4x4	F-350 4x2	F-350 4x4	F-350 133 "WB 4x2	F-350 133"/137" WB 4x4	F-350 137 "/161 "WE 4x2
4.9L I-6 EFI	3.08 3.55 4.10	9,000 10,000 11,000	5,100 6,100	5,900	5,800	Ξ	_ 6,700	111	=	5,600	1 1 1	111		1 - 1	111	7,100	111	=
5.0L V-8 EFI	3.08 3.55 4.10	9,000 11,500 12,500	5,100 7,600	7,400 8,400	_ 8,300	_ 8.100		Ξ		7,100	6,900 7,900	111	Ξ	=	Ξ	Ξ	111	Ξ
5.8L V-8 4V	3.08 3.55 4.10	9,000 11,500 13,500	5,000 7,500 —	7,300	7,200 9,200	7,000 9,000	7,100 9,100	6,700 8,700	6,800 8,800	7,000	6,700	6,600 8,600	6,200 8,200	6,100 8,100	6,000 8,000	7,500 9,500	111	7,000 8,800
6.9L V-8 Diesel	3.55 4.10	12,000 14,000	-	-	=	Ξ	7,100 9,100	6,600 8,600	6,700 8,700	-	1.1	6,500 8,500	6,100 8,100	6,100 8,100	5,900 7,900	7,400 9,400	6,900 8,700	6,800 8,800
7.5L V-8 4V (1)	3.55 4.10	15,000 18,500	-	1.1	_	1.1	10,400 12,500	10,000 12,500	10,100 12,500	-	1.1	9,900 12,500	9,500 12,500	9,500 12,500	9,300 12,500	10,800 12,500	10,300 12,500	10,100 12,500
				T	RAIL	ER V	VEIGI	HTS (MA	X) W	MAN	IUAL	TRA	NSM	ISSION				
4.9L I-6 EFI	3.55 4.10	7,800 10,000	4,000	=	Ξ	Ξ	5,700	=	=	Ξ	=	5,200	=	=	=	6,100	Ξ	5,400
5.0L V-8 EFI	3.55 4.10	7,800 10,000	3,800	=	5,800	=	-	=	Ξ	3,300	Ξ	Ξ	Ξ	=	Ξ	Ξ	Ξ	=
5.8L V-8 4V	3.55/4.10	11,000	-		-	-	6,600	6,100	6,300	-	-	6,000	5,700	5,600	5,400	7,000	-	6,300
6.9L V-8 Diesel	3.55 4.10	12,000 14,000		1.1		1	7,000 9,000	6,600 8,600	6,700 8,700	Ξ	1.1	6,500 8,500	6,100 8,100	6,000 8,000	5.900 7,900	7.400 9.400	6,900 8,700	6,800 8,800
7.5L V-8 4V (1)	3.55 4.10	11,500(2) 16,000		-	=	-	6,900 11,400	6,400 10,900	6,600 11,100	-		6,300 10,800	6,000 10,500	5,900 10,400	5,700 10,200	7,300 11,800	6,800 11,100	6,600 11,100

(2) 12,000 lb. maximum GCWR with the introduction of EFI.

Note: Required and Recommended Equipment on page 18.

### TRAILERING EQUIPMENT

### Important Information

Your comfort and convenience is the primary goal of Ford engineers. Also, the appropriate power package is critical to peak vehicle performance. With this in mind, the charts below show the "Required" and the "Recommended" equipment for trailer towing, REQUIRED EQUIPMENT (mini-

mum) is deemed essential to assure that your

vehicle includes the necessary powertrain and suspension components to meet the additional ride, handling and performance requirements of hauling your camper or trailer. RECOMMENDED EQUIPMENT is suggested to assure that your vehicle includes the proper combination of comfort and convenience features to make your trailering a pleasant experience.

### Required Equipment

MODEL	FORD CARS*	AEROSTAR 7	RANGER	BRONCO II	BRONCO	F-SERIES	F-SERIES 5th WHEEL	ECONOLINE VANS	CLUB
Trailer Towing/Camper Package**		8				5	5	5	3
Power Brakes			2						
Super Cooling		1	1	1	6	6	6	6	
Handling/H.D. Suspension			1110		4	4	4	4	3
*LTD Crown Victoria and Country Sc	mire	3 - Trailer To	wing Packa	ge or air cond	litioning	4 - w/trailer	s over 3.500	bs , except w	7.5L

- models only \*See chart below for Package Contents
- 1 w/trailers over 2,000 lbs.: also Payload
- Package 2 w/Ranger models only 2 - Ranger 4x2 w/Payload Package 1 when GCWR exceeds GVWR
- v/trailers from 2.000-3.500 lbs Trailer Towing Package or air conditioning with handling package w/trailers over 3,500 lbs., except w/7.5L engine and over
- 11.000 lbs. GCWR Trailer Towing Package w/7.5L engine and over 11,000 lbs. GCWR
- 5 w/7.5L engine and over 11,000 lbs. GCWR
- 6 w/trailers from 2,000-3,500 lbs., and includes Auxillary Transmission Oil Cooler w/trailers over 3.500 lbs., except w/7.5L engine and over 11,000 lbs. GCWR. - requires minimum P195/75R-14SL tires. 8 - Van w/Payload Package no. 1

### Recommended Equipment

MODEL	AEROSTAR	RANGER	BRONCO II	BRONCO	F-SERIES	F-SERIES 5th WHEEL	ECONOLINE VANS	CLUB WAGONS
Super Cooling*								
Hitch: Weight Carrying or Step Bumper 1/3/4 Weight Distributing 2/4								
Trailer Towing Package*				1				
*Where not Required as shown in chart above.	1 - with trail 2 - with trail			w/Rear	Step Bumper.	000 lbs. on Bronc ly mounted hitch.		

### Trailer Towing Package Contents'

MODEL:	AEROSTAR	BRONCO	F-SERIES	ECONOLINE VANS	CLUB WAGONS
Cooling: Super					
Aux. Auto. Trans. Oil					
7.5L V-8 Engine Oil (1)			The latest the same of the sam		
Electrical: H.D. Battery					
Wiring Harness					
H.D. Turn Signal Flasher					
7.5L Electric Fuel Pump (1)					
Suspension: Handling/Suspension Pkg.			(2)		
Other Equipment: Low Mount Mirrors					
Limited Slip Rear Axle		and the same of	1		
Dual Elect, Horns		1000			April 1

- \*Packages vary in content with certain powertrains. See your Ford Dealer for content information. Not available with F-series Flareside (1) - Standard when 7.5L EFI engine is introduced.
- (2) A higher capacity rear spring is substituted for front and rear stabilizer bars on F-250 4x4 with 6.9L Diesel in combination with air conditioning or super cooling. Higher capacity front and rear springs are substituted for front and rear stabilizer bars on 133" Wb. F-350 4x4

## TRAILERING

Trailer-towing is a unique driving experience The usual rules of driving must be modified in order to move cargo and people safely, comfortably and without abuse to the towvehicle. Since all of these "rules of the trailering road" and the language that goes with trailering are not self-explanatory, a number of tips and terms have been included here. They're most important for you to know.

#### **Trailer Hitches**

There are two basic types of trailer-towing hitches. The "weight-carrying hitch" and the "load equalizing hitch." When hauling trailers over 2,000 lbs., a load equalizing hitch is designed to distribute the weight of the trailer and towing vehicle equally between the axles of both the vehicle and the trailer. For trailers under 2,000 lbs., a simple bumper hitch is usually sufficient. Bronco and F-Series rear step bumpers are rated to haul trailers up to 4,000 lbs. and 5,000 lbs... respectively.

#### **Trailer Brakes**

Separate trailer brakes are recommended and required on most trailers weighing over 1,500 lbs. Check state requirements and trailer manufacturers recommendations for brake system installation and adjustment. Ford Motor Company does not recommend trailer braking systems that have a direct hydraulic brake fluid connection with the towing vehicle's braking system. Any trailer brake control system utilizing a connection to the towing vehicle's hydraulic fluid system may increase the towing vehicle's stopping distance.

### Safety Chains

Always use safety chains between your vehicle and trailer. This will avoid danger to road users if the hitch fails. Cross chains under the trailer tongue and allow enough slack for turning corners. Connect safety chains to the vehicle frame or hook retainers. Never attach safety chains to the bumper. For rental trailers, follow rental agency instructions for proper hookup of safety chains.

### **High-Altitude Performance**

In a high-altitude operating environment. gasoline and diesel engines lose power at the rate of 3% to 4% per 1,000 ft, elevation. For these high altitude operating conditions. a reduction in gross vehicle weights and gross combination weights is recommended (2% per 1,000 ft. elevation) and will result in improved vehicle performance.

### **Gross Vehicle Weight** Rating (GVWR)

The total allowable weight of a fully-equipped truck with driver, passengers, cargo, fluids and accessories (the manufacturer's operating weight limitation).

### **Gross Combined Weight** Rating (GCWR)

GCWR equals the combined weight of the fully-equipped towing vehicle, including passengers and cargo, and the loaded trailer. Maximum GCWR and both the front and rear GAWR's (Gross Axle Weight Ratio) must not be exceeded.

### **Gross Axle Weight** Rating (GAWR)

The maximum allowable loaded weight on each axle system. The load on each axle system should NOT exceed the Gross Axle Weight Rating specified on the safety certification label-nor should the total load on both axle systems exceed the pickup's Gross Vehicle Weight Rating.

### Trailer Weight, Maximum

Assumes the weight of the standard vehicle and powertrain indicated, the driver only (150 lbs.) and no cargo. A tongue load of 10-15% of trailer weight for conventional trailers and 25% of trailer weight for fifth-wheel trailers is also assumed. The weight of optional equipment, passengers (150 lbs. per), cargo and the load equalizing hitch (for trailers over 2,000 lbs.) or saddle hitch for fifth-wheel trailers must be deducted from trailer weights shown.

### **Tonque Weight**

The amount of trailer weight imposed on the vehicle by the hitch. In most cases this should not be less than 10% of the trailer load or more than 15%. Fifth-wheel applications should place about 25% of the trailer weight on the coupling when the weight is properly distributed. Placing too much of the trailer weight on the hitch can damage the suspension and drivetrain components of the vehicle. Too little can reduce traction and tend to lift the rear of the vehicle.

### Fifth-Wheel Trailer

One with its tongue attached to a special mount in a pickup bed, which permits heavier loads to be hauled, since it puts the tonque weight directly over the pickup's rear wheels.

#### Note: Fuel Economy Information

Aerostar equipped with 2.3L 4 cylinder engine has EPA estimated 21 mpg city and 26 mpg highway. 150 and 250 F-series 2-wheel drive pickups equipped with 5.0L V-8 have EPA estimated 14 mpg city and 18 mpg highway. 4-wheel drive 150 and 250 F-series pickups equipped with this engine have EPA estimated 11 mpg city and 13

mpg highway. E150 and Econoline 250 vans equipped with 5.0L V-8 engine have EPA estimated 13 mpg city and 17 mpg highway. 150 and 250 F-series pickups equipped with

 5.8L H.O. V-8 engine have EPA estimated 12 mpg city and 13 mpg highway.
 E150 and Econoline vans equipped with 5.8L. H.O. V-8 engine have EPA estimated 11 mpg city

and 13 mpg highway.

EPA estimated fuel economy ratings are not available for 4.9L six cylinder engine at time of printing. See your Ford Dealer for details.

EPA estimated mileage figures indicated are representative of vehicles and powerfrain combina-

tions equipped with automatic transmissions and commonly used in trailer towing applications. See your Ford/RV Dealer for mileage figures related to other applications.

Illustrations and information presented herein were correct when approved for printing. Ford Division reserves the right to discontinue or change at any time specifications or designs without incurring obligations. Some features shown or described are optional at extra cost. Most options offered on all models. Some options are required in com-bination with other options. Always consult your Ford dealer for the latest, most complete information on models, features, prices and availability.

Camper units and other vehicle modifications shown within are performed through establishments not connected with Ford Motor Company. Availability, price, quality, safety, and durability of these modifications rest solely with the respective manufacturers and Ford assumes no responsibility for their use.

Note: All horsepower and torque comparisons shown in this catalog are based on SAE standard J1349.

All maximum trailer weights shown must be reduced by passenger and cargo weight in the towing vehicle.

Get It Together—Buckle Up

FDT8725

Ford FORD DIVISION

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