

SPEC'ING F-SERIES TRUCKS FOR TOWING



2019 SUPER DUTY F-450 PLATINUM CREW CAB 4X4

MATCH YOUR CUSTOMERS WITH THE RIGHT PICKUP TRUCK

Different truck buying customers have different needs. That's why it's important you have expertise in spec'ing a Ford truck. Not only can you help ensure your customers have the right truck to meet their needs, but you can also ensure that they have a satisfying ownership experience.

 **Before You Begin:** Download the [Customer Needs Assessment Worksheet for Spec'ing Trucks](#) to use with this instruction guide.

The Three Elements of the Truck Selection Process

To select trucks that fit your customers' needs, work with them to determine exactly what those needs are. Your process should include investigating these three elements:



The Support element is essential when spec'ing a truck for towing — it's key in determining the total payload and towing capabilities needed.

GROSS COMBINATION WEIGHT

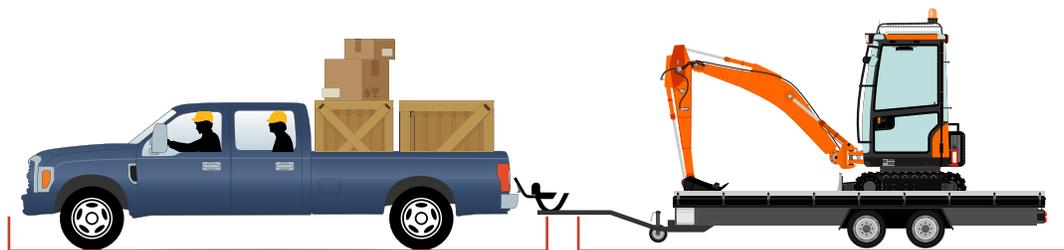


Your Secret Weapon for Truck Spec'ing

The **gross combination weight (GCW)** provides a picture of how much “total work” a truck can do. That’s because it measures the weight of everything the powertrain must carry and pull, including the:

- Truck
 - Driver and passengers
 - Payload in the cab and in the bed
 - Hitch
- Trailer
 - Contents in/on the trailer

Gross Combination Weight (GCW) =



Truck + Payload
(Cargo, Options, People, Hitch)

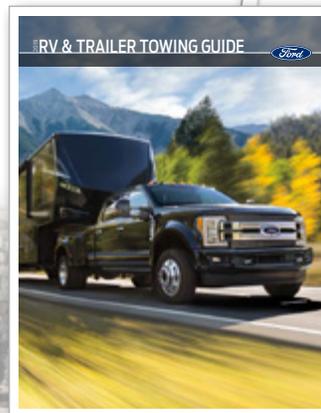


Total Trailer Weight
(Trailer and Trailer Contents)

Tools to Help Get the Job Done

Work with the customer to ensure all of the items above result in a gross combination weight (GCW) that’s less than the gross combination weight rating (GCWR) of the truck being recommended, by using these tools:

- [Customer Needs Assessment Worksheet for Spec'ing Trucks](#) – Helps you easily complete the calculations to find the GCW
- [RV & Trailer Towing Guide](#) – Provides the gross combination weight ratings (GCWR) for Ford vehicles



FOUR EASY STEPS TO SPEC A TRUCK

STEP 1 Determine Trailer and Trailer Contents Weight



Ask your customer these key questions and record the answers on the Customer Needs Assessment Worksheet for Spec'ing Trucks:

A What is the weight of the trailer itself?

TIP: If the customer doesn't know the weight of the trailer, consult the trailer manufacturer's website, suggest the customer weigh the trailer or check the trailer's gross vehicle weight rating (GVWR) sticker to determine a more precise weight.

TIP: Customers may not know the exact weight or may underestimate the weight, so be generous with the estimate.

B What is the weight of the cargo on or in the trailer?

TIP: This could include shelves, storage bins, etc. You may want to overestimate this weight as well.

C [Click here if your customer wants to use a fifth-wheel/gooseneck application instead of a conventional hitch.](#)

Step 1 – Tongue Weight Calculation

A Trailer Weight: _____ lbs.

B Trailer Contents: + _____ lbs.

Total Trailer Weight: = _____ lbs.

x _____ .15(.25)

Tongue Weight: = _____ lbs.

C Fifth-wheel/gooseneck application

NOTE: The Customer Needs Assessment Worksheet for Spec'ing Trucks automatically calculates a less conservative 10% to account for the tongue weight with conventional towing or 15% for fifth-wheel/gooseneck towing. Note that the Owner's Manual recommends a range of 10%-15% for conventional hitch and 15%-25% for 5th wheel/gooseneck hitch.

STEP 2



Determine the Total Payload Weight

$$\text{Payload Weight} = \text{Cargo} + \text{Options} + \text{People} + \text{Tongue Weight} + \text{Hitch Weight}$$



Payload Weight

This step is critical to ensuring your customer receives a truck that can carry the required weight. *At this point, you'll need to know which truck they have in mind.* Ask these questions and record the answers on the Customer Needs Assessment Worksheet for Spec'ing Trucks:

A How much will the typical cargo being carried in the bed weigh?

B How much do the vehicle options weigh?

TIP: Generally, the higher the trim level, the more the truck will weigh. For instance, a King Ranch® weighs more than an XL. Check the appropriate eSourceBook vehicle section for trim level weights under Specs. Check the appropriate eSourceBook vehicle section for trim level and option content weights under Specs, then Dimensions/Weights/Capacities.

C How much do the people weigh?

TIP: Account for all safety-belted positions multiplied by 150 lbs. each (or more, if you know the passengers' weights).

D What is the tongue weight?

TIP: This figure is automatically calculated and populated from Step 1.

E How much does the hitch itself weigh?

TIP: Be sure to include stabilizer or weight distribution bars and any other hitch accessories, if applicable.

Step 2 – Payload Calculation

A Cargo: _____ lbs.
B Options: + _____ lbs.
C People: + _____ lbs.
D Tongue Weight: + _____ lbs.
E Hitch Weight: + _____ lbs.
Payload: = _____ lbs.
Is Payload Less Than Max.
Payload Rating? _____ lbs.



Checkpoint #1: Make sure the payload weight calculated here is lower than the maximum payload rating for the truck your customer has selected. If the payload weight is higher, recommend a truck with a higher maximum payload rating. **Remember, option weights add up quickly, which leaves less capability available for towing.**



Find truck option weights under Specs, Option Content Weight in the eSourceBook vehicle section, or click here.

STEP 3



Determine the Gross Vehicle Weight

$$\text{Gross Vehicle Weight (GVW)} = \text{Base Curb Weight} + \text{Payload}$$



Using the truck selection that passed Checkpoint #1, continue to complete the Customer Needs Assessment Worksheet:

A Add the selected vehicle's curb weight.

TIP: Remember, curb weights can change dramatically based on engine and powertrain. The vehicle's base curb weight can be found in the vehicle section on **eSourceBook** under Specs, by clicking on Dimensions/Weights/Capacities, then Weight Ratings, located in the left-hand navigation.

NOTE: Payload and Gross Vehicle Weight are automatically calculated and populated on the Worksheet PDF.

B Make sure the spec'd GVW is less than the GVWR.

TIP: You can find the vehicle's GVWR on **eSourceBook** under Specs located in the left hand navigation. Click on Dimensions/Weights/Capacities, then Weight Ratings in the left-hand navigation.

Step 3 – Select Tentative Truck to Meet Payload GVW Requirements

Payload: = _____ lbs.

A Curb Weight: + _____ lbs.

GVW: = _____ lbs.

B Is GVW Less Than GVWR? _____ lbs.

GVW must be less than GVWR.



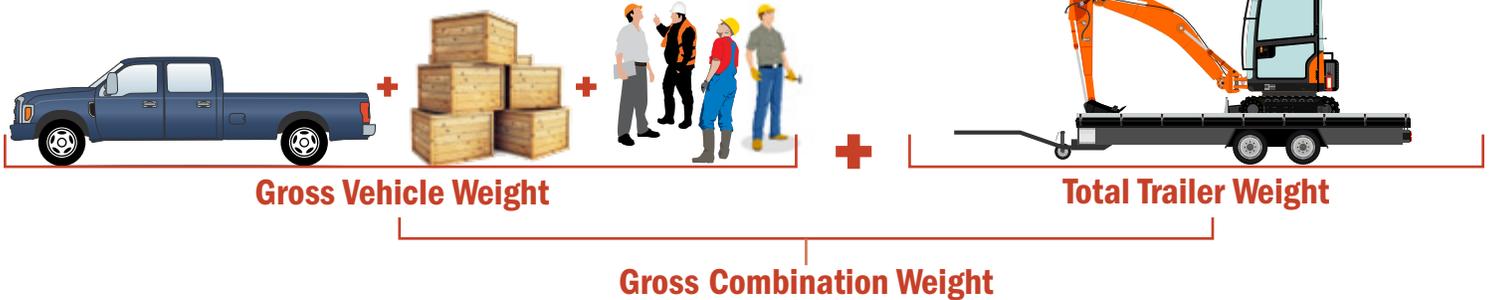
Checkpoint #2: Make sure that the spec'd gross vehicle weight listed here is **lower** than the gross vehicle weight rating for the truck selected. If it's higher, recommend a truck with a higher gross vehicle weight rating and restart the process at Step 2. Remember, trucks with more options and higher trim levels tend to weigh more, which can affect the towing capability.

STEP 4



Determine the Gross Combination Weight

Gross Combination Weight = **Truck + Payload** (Cargo, Options, People, Hitch)
 +
Total Trailer Weight
 (Trailer and Trailer Contents)



Now that you've selected a vehicle with an appropriate maximum payload rating (Checkpoint #1) and appropriate gross vehicle weight rating (Checkpoint #2), it's time to make sure the vehicle can also tow the weight required:

NOTE: All weights in Step 4 should already be populated in the Worksheet PDF.

- A** Find the GCW results in the Step 4 box on the Customer Needs Assessment Worksheet for Spec'ing Trucks.
- B** Compare that to the GCWR shown for that vehicle found in the *RV & Trailer Towing Guide*. Look for the first column as shown.

F-250 SRW SUPER DUTY® PICKUPS 5.0L

Automatic Transmission		GCWR (lbs.)	REGULAR CAB		
Engine	Axle Ratio		4x2 142" WB 8' Box	4x4 142" WB 8' Box	4x2 148" WB 6-3/4' Box
6.2L V8	3.73	19,500	13,200	12,800	13,000
	4.30	22,000	15,700	15,300	15,500
6.7L V8 Turbo Diesel	3.38	20,600(2)	--	--	--
		20,900(1)	--	--	--
		21,300	--	--	--
		21,900(2)	--	--	--
		22,000(2)	--	--	--
		22,200(3)	--	--	--
		22,400(3)	--	--	--
		22,500	--	--	--

Step 4 – Gross Combination Weight (GCW) Calculation

GVW: _____ lbs.

Tongue Weight: (-) _____ lbs.

Adjusted GVW: + _____ lbs.

Trailer Weight and Trailer Contents: + _____ lbs.

A GCW: = _____ lbs.

B Is GCW Less Than GCWR? _____ lbs.

GCW must be less than GCWR.



Checkpoint #3: Make sure the gross combination weight for the selected truck is lower than the gross combination weight rating listed in the *RV & Trailer Towing Guide*. If the gross combination weight is higher than the gross combination weight rating, recommend a truck with a higher GCWR as listed in the *RV & Trailer Towing Guide* and start the process over at Step 2.

LOCATING GVWR AND MAXIMUM PAYLOAD RATING FOR TRUCKS ON YOUR LOT



It's easy to match a truck on your lot to a customer's needs once you know the gross vehicle weight rating and the maximum payload rating. Here's how to locate these key specifications:

- A** Look for the labels below on the driver's side B-pillar of the doorjamb. GVWR is stated here in kilograms and pounds.
- B** Maximum Payload Rating is also located on the doorjamb in kilograms and pounds.



MFD. BY FORD MOTOR CO. DATE: 07/18 **GVWR: 4536 KG (10000 LB)** **A**
 FRONT GAWR: 2359 KG (5200 LB) REAR GAWR: 2876 KG (6340 LB)
 WITH LT275/65R20E 126/123R TIRES WITH LT275/65R20E 126/123R TIRES
 20XB DJ RIMS 20XB DJ RIMS
 AT 420 kPa/ 60 PSI COLD AT 450 kPa/ 65 PSI COLD
 THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE
 SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
 VIN: 1FT7W2B7KEC05238 TYPE: Truck

EXT PNT: RR D1 RC: 52 DSO: F0139
 WB INT TR TP/PS R AXLE TR SPR T1131
 160 SP X 3J W TTJJ ULC ♡ SUSA-3520472-AA

1FT7W2B7KEC05238
DO NOT APPLY

TIRE AND LOADING INFORMATION

SEATING CAPACITY TOTAL : 5 FRONT: 2 REAR: 3 **B**

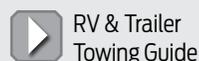
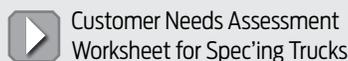
The combined weight of occupants and cargo should never exceed : **984 kg or 2170 lbs.**

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION
FRONT	LT275/65R20E 126/123R	420 KPA, 60 PSI	FT7W2B7KEC05238
REAR	LT275/65R20E 126/123R	450 KPA, 65 PSI	
SPARE	LT275/70R18E 125/122R	450 KPA, 65 PSI	

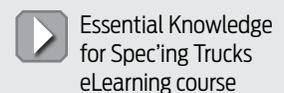
♡ SUSA-1532-AA (TLU)

Key Spec'ing Resources for Towing

Download these tools to assist your spec'ing process:



Interested in sharpening your spec'ing skills further? Check this out:



Retailer Education & Training

© Copyright January 2019 by Ford Motor Company. Intended for use by dealership personnel to inform consumers and cannot be used in advertising without permission from the Office of the General Counsel of Ford Motor Company. Specifications and descriptions contained within are based upon the most current information available at the time of release.