

2023 F-150

Specs

Key product specifications include vehicle dimensions and capacities, detailed powertrain information, transmission gear ratios and more.



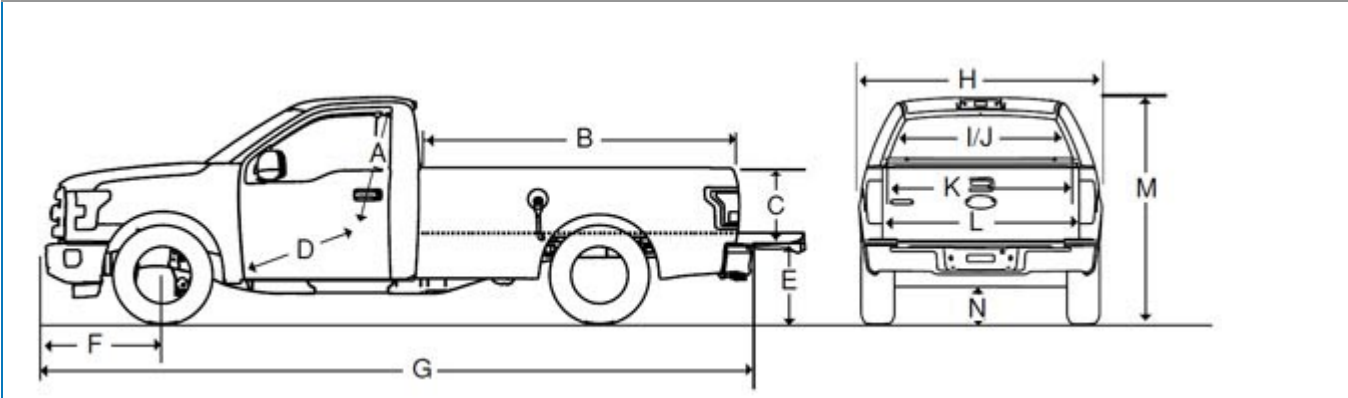
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Dimensions/Weights/Capacities

Accessory Reserve Capacity (ARC) Calculation	Gross Vehicle Weight Rating (GVWR)	SuperCab Dimensions
Base Curb Weight	Interior Volume	SuperCrew Dimensions
Fuel Tank Capacity	Maximum Payload Weight Rating	Tongue Weight
Gross Axle Weight	Maximum Payload Weight Ratings	Trailer Weight
Gross Axle Weight Rating (GAWR)	Option Weights	Truck "Nominal Tonnage"
Gross Combination Weight (GCW)	Passenger Weight	Vehicle Class Ratings by GVWR
Gross Combination Weight Rating (GCWR)	Payload	Weight Distribution
Gross Vehicle Weight (GVW)	Pickup Box Dimensions	Weight Ratings — 4x2
	Regular Cab Dimensions	Weight Ratings — 4x4

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Regular Cab Dimensions



Drive		4x2		4x4	
Cargo Box (ft.)		6.5	8.0	6.5	8.0
Wheelbase (in.)		122.8	141.5	122.8	141.5
Code	Description (in.)				
A	Head Room	40.8	40.8	40.8	40.8
B	Inside Length ⁽¹⁾ (at floor)	78.9	97.6	78.9	97.6
C	Inside Height ⁽¹⁾	21.4	21.4	21.4	21.4
D	Leg Room (maximum)	43.9	43.9	43.9	43.9
E	Open Tailgate to Ground (Empty) ⁽²⁾	33.9	33.9	35.7	35.6
F	Front Overhang	37.6	37.6	37.6	37.6
	Rear Overhang	48.6	48.6	48.6	48.6
G	Overall Length	209.1	227.7	209.1	227.7
	Front Bumper to Back of Cab	121.4	121.4	121.4	121.4
H	Width (Max.) (excluding mirrors)	79.9	79.9	79.9	79.9
I	Shoulder Room	66.7	66.7	66.7	66.7
J	Hip Room	62.5	62.5	62.5	62.5
K	Width Between Wheelhouses ⁽¹⁾	50.6	50.6	50.6	50.6
L	Max. Load Width ⁽¹⁾ (at floor)	60.3	60.3	60.3	60.3
M	Cab Height (Empty) ⁽²⁾	75.6	75.2	77.0	77.0
N	Ground Clearance	8.7	8.3	9.4	9.4
	Track Width — Front	67.9	67.9	67.9	67.9
	Track Width — Rear	68.3	68.3	68.3	68.3

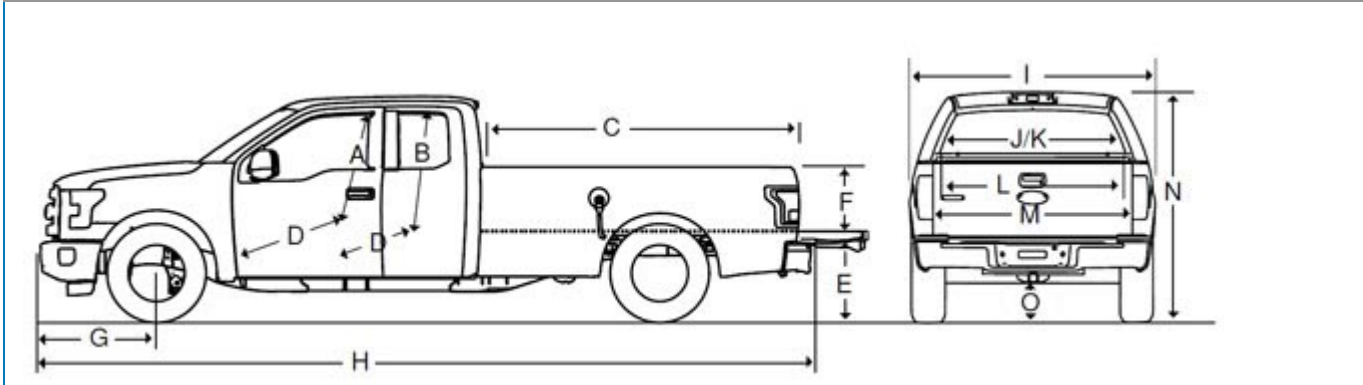
(1) Pickup box. Also refer to Pickup Box Dimensions.

(2) The height data shown represents dimensions of a nominal vehicle with no options. Actual height may vary due to production tolerances.

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SuperCab Dimensions



The diagram illustrates the dimensions of a SuperCab pickup truck. The side view shows dimensions A (Head Room), B (Inside Length), C (Inside Height), D (Leg Room), E (Open Tailgate to Ground), F (Front Overhang), G (Overall Length), H (Width), I (Shoulder Room), J (Hip Room), K (Width Between Wheelhouses), L (Max. Load Width), M (Cab Height), and N (Ground Clearance). The rear view shows dimensions J/K (Width Between Wheelhouses), L (Max. Load Width), M (Cab Height), and N (Ground Clearance).

Drive	4x2		4x4	
Cargo Box (ft.)	6.5	8.0	6.5	8.0

Wheelbase (in.)		145.4	164.1	145.4	164.1
Code	Description (in.)				
A	Head Room (Front)	40.8	40.8	40.8	40.8
B	Head Room (Rear)	40.3	40.3	40.3	40.3
C	Inside Length ⁽¹⁾ (at floor)	78.9	97.6	78.9	97.6
D	Leg Room (Front) (maximum)	43.9	43.9	43.9	43.9
	Leg Room (Rear)	33.5	33.5	33.5	33.5
E	Open Tailgate to Ground (Empty) ⁽²⁾	33.1	33.8	35.0	35.2
F	Inside Height ⁽¹⁾	21.4	21.4	21.4	21.4
G	Front Overhang	37.6	37.6	37.6	37.6
	Rear Overhang	48.6	48.6	48.6	48.6
H	Overall Length	231.7	250.3	231.7	250.3
	Front Bumper to Back of Cab	144.0	144.0	144.0	144.0
I	Width (Max.) (excluding mirrors)	79.9	79.9	79.9	79.9
J	Shoulder Room (Front)	66.7	66.7	66.7	66.7
	Shoulder Room (Rear)	66.1	66.1	66.1	66.1
K	Hip Room (Front)	62.5	62.5	62.5	62.5
	Hip Room (Rear)	62.6	62.6	62.6	62.6
L	Width Between Wheelhouses ⁽¹⁾	50.6	50.6	50.6	50.6
M	Max. Load Width ⁽¹⁾ (at floor)	60.3	60.3	60.3	60.3
N	Cab Height (Empty) ⁽²⁾	75.5	75.6	77.2	77.1
O	Ground Clearance	8.4	8.2	9.4	8.7
	Track Width — Front	67.9	67.9	67.9	67.9
	Track Width — Rear	68.3	68.3	68.3	68.3

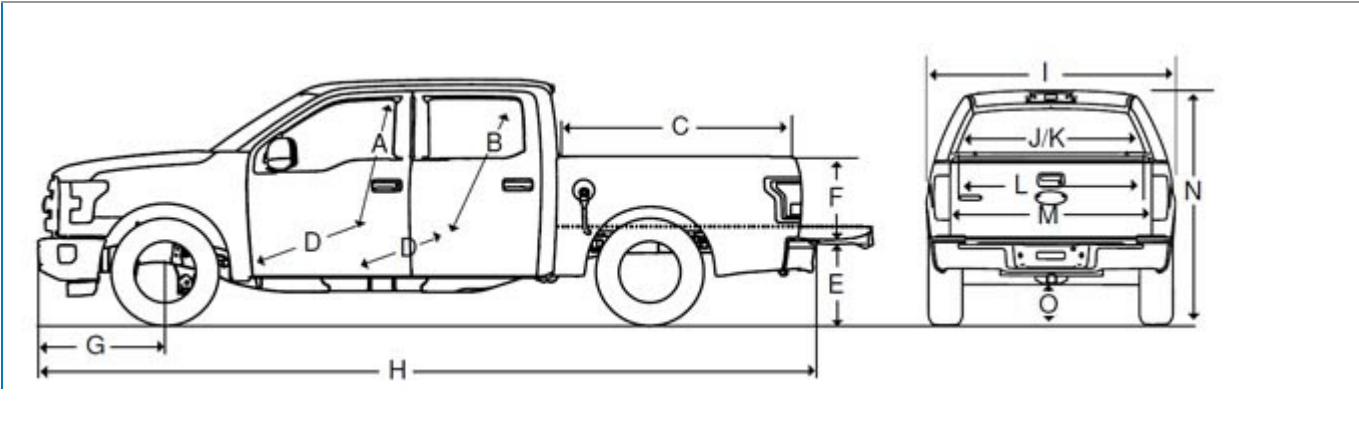
(1) Pickup box. Also refer to Pickup Box Dimensions.

(2) The height data shown represents dimensions of a nominal vehicle with no options. Actual height may vary due to production tolerances.

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SuperCrew Dimensions



Drive		4x2		4x4			
Cargo Box (ft.)		5.5	6.5	5.5	6.5	5.5 Tremor	5.5 Raptor (35"/37" tire)
Wheelbase (in.)		145.4	157.2	145.4	157.2	145.6	145.4
Code	Description (in.)						
A	Head Room (Front)	40.8	40.8	40.8	40.8	40.8	40.8
B	Head Room (Rear)	40.4	40.4	40.4	40.4	40.4	40.4
C	Inside Length ⁽¹⁾ (at floor)	67.1	78.9	67.1	78.9	67.1	67.1
D	Leg Room (Front) (maximum)	43.9	43.9	43.9	43.9	43.9	43.9
	Leg Room (Rear)	43.6	43.6	43.6	43.6	43.6	43.6
E	Open Tailgate to Ground (Empty) ⁽²⁾	32.9	33.8	34.9	35.8	37.4	37.0/37.8
F	Inside Height ⁽¹⁾	21.4	21.4	21.4	21.4	21.4	21.4
G	Front Overhang	37.6	37.6	37.6	37.6	37.6	37.0
	Rear Overhang	48.6	48.6	48.6	48.6	48.5	50.2
H	Overall Length	231.7	243.5	231.7	243.5	231.7	232.6
	Front Bumper to Back of Cab	155.8	155.8	155.8	155.8	155.8	154.9
I	Width (Max.) (excluding mirrors)	79.9	79.9	79.9	79.9	79.9	79.8/80.7
J	Shoulder Room (Front)	66.7	66.7	66.7	66.7	66.7	66.6
	Shoulder Room (Rear)	66.0	66.0	66.0	66.0	66.0	65.8
K	Hip Room (Front)	62.5	62.5	62.5	62.5	62.5	62.5
	Hip Room (Rear)	62.6	62.6	62.6	62.6	62.6	62.6
L	Width Between Wheelhouses ⁽¹⁾	50.6	50.6	50.6	50.6	50.6	50.6
M	Max. Load Width ⁽¹⁾ (at floor)	60.3	60.3	60.3	60.3	60.3	65.2
N	Cab Height (Empty) ⁽²⁾	75.6	75.8	77.2	77.6	79.3	79.8/80.7
O	Ground Clearance	8.5	8.2	9.4	8.8	9.4	12.0/13.1
	Approach Angle (degrees)	—	—	—	—	27.6	31.0/33.1
	Breakover/Ramp Angle (degrees)	—	—	—	—	24.3	23.9/24.9
	Departure Angle (degrees)	—	—	—	—	21.2	22.7/24.4
	Track Width — Front	67.9	67.9	67.9	67.9	68.5	74.0/74.3
	Track Width — Rear	68.3	68.3	68.3	68.3	69.1	73.6/73.9

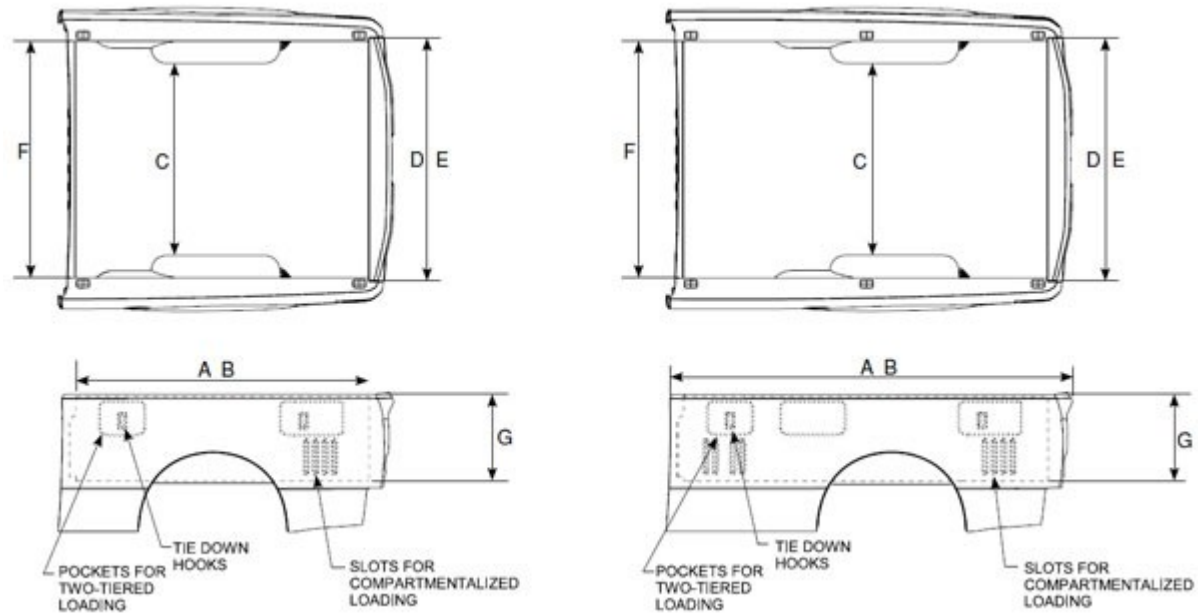
(1) Pickup box. Also refer to Pickup Box Dimensions.

(2) The height data shown represents dimensions of a nominal vehicle with no options. Actual height may vary due to production tolerances.

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Pickup Box Dimensions



Box Size (ft.)		5.5 ⁽¹⁾	6.5 ⁽²⁾	8.0 ⁽³⁾
Cargo Volume (cu. ft.)		52.8	62.3	77.4
Code	Description (in.)			
A	Cargo Box Inside Length @ Floor	67.1	78.9	97.6
B	Cargo Box Length @ Top	65.4	77.2	95.9
C	Cargo Width @ Wheelhouse	50.6	50.6	50.6
D	Rear Opening Width @ Floor	60.3	60.3	60.3
E	Rear Opening Width @ Top	60.3	60.3	60.3
F	Cargo Body Maximum Inside Width	65.2	65.2	65.2
G	Cargo Body Height with Molding	21.4	21.4	21.4

(1) On 145.4"/145.6" (Tremor only) wheelbase SuperCrew.
(2) On 122.8" wheelbase Regular Cab, 145.0" wheelbase SuperCab and 157.2" wheelbase SuperCrew.
(3) On 141.5" wheelbase Regular Cab and 164.1" wheelbase SuperCab.
NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

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Interior Volume

REGULAR CAB	
Cab Position	Volume (cu. ft.)
Front Passenger	64.7
Cargo Volume Behind First Row	8.8

SUPERCAB	
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Cab Position	Volume (cu. ft.)	
	6.5-ft. box	8.0-ft. box
Front Passenger	64.7	64.7
Rear Passenger	51.6	51.6
Total Passenger	116.3	116.3
Cargo Volume Behind First Row Rear-seat Cushion Folded Up	30.6	30.6

SUPERCREW

Cab Position	Volume (cu. ft.)	
	5.5-ft. box	6.5-ft. box
Front Passenger	64.7	64.7
Rear Passenger	67.2	67.2
Total Passenger	131.9	131.9
Cargo Volume Behind First Row Rear-seat Cushion Folded Up	50.9	50.9

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Fuel Tank Capacity

REGULAR CAB

Wheelbase (in.)	Location	Capacity (gallons)	
		Standard	Available
122.8 (4x2/4x4)	Midship	23.0	—
141.5 (4x2/4x4)	Midship	23.0	36.0

SUPERCAB

Wheelbase (in.)	Location	Capacity (gallons)	
		Standard	Available
145.4 (4x2/4x4)	Midship	23.0	36.0
164.1 (4x2/4x4)	Midship	23.0	36.0

SUPERCREW

Wheelbase (in.)	Location	Capacity (gallons)	
		Standard	Available
145.4 ⁽¹⁾ (4x2/4x4)	Midship	26.0	36.0

		36.0 (Raptor only)	30.6 (3.5L PowerBoost only)
157.2 (4x2/4x4)	Midship	26.0	36.0
			30.6 (3.5L PowerBoost only)

(1) Includes 145.6" WB on Tremor 4x4.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

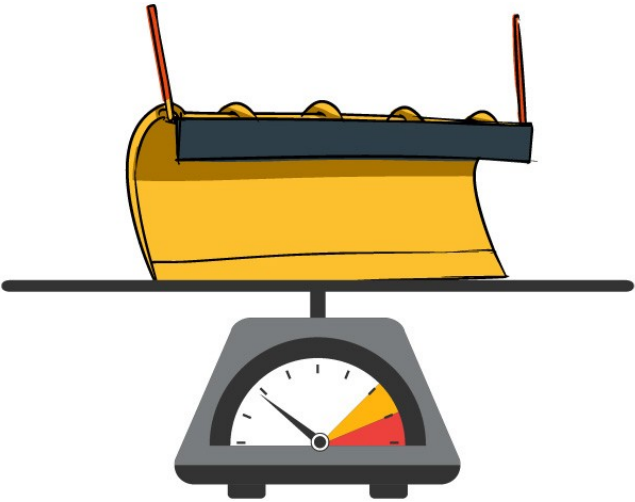
2023 F-150 > Specs > Dimensions/Weights/Capacities > General Truck Payload Information

Accessory Reserve Capacity (ARC) Calculation

This section provides the information needed to calculate the effect that vehicle options have on the payload capacity of Ford commercial vehicles.

This information is useful when the plan is to add aftermarket accessories or haul cargo at or near the vehicle's maximum capacity.

This section includes charts for each series, listing the maximum allowable weights for each GVWR.



ACCESSORY RESERVE CAPACITY

You can help prospective buyers estimate the total weight of accessories, equipment and modifications that may be added to the completed vehicle.

Ford vehicles are certified for compliance with the following FMVSS (Federal Motor Vehicle Safety Standards) or CMVSS (Canadian Motor Vehicle Safety Standards):⁽¹⁾

- 204 — Steering Column Rearward Displacement
- 208 — Occupant Crash Protection
- 212 — Windshield Mounting
- 219 — Windshield Zone Intrusion
- 301 — Fuel System Integrity
- 303 — CNG Fuel System Integrity (Canadian Standard 301.2)

The total added accessory weight must not exceed the allowable weight shown in the tables. Awareness is critical if the vehicle is going to be modified or have accessories installed.

If the modification or installation of accessories or equipment causes the unloaded weight of the vehicle, as revised with the added equipment, to exceed the test vehicle weight, the U.S. vehicle alterer⁽²⁾ may be responsible to certify the altered vehicle according to Title 49, Code of Federal Regulations 567.7 and 568.8. A Canadian vehicle alterer may be responsible to certify the altered vehicle according to Section 6 of the Canadian Motor Vehicle Safety Regulations.

In this section, each vehicle has a worksheet that addresses Total Accessory Reserve Capacity only. It does not consider Front Axle Accessory Reserve Capacity and does not include DSO option weights in the calculations.

To approximate the amount of accessory equipment or modification weight that can be added to a Ford light truck without exceeding the test vehicle weight, calculate an estimated Total Accessory Reserve Capacity as follows:

1. Determine the "Total Actual Regular Production Option Content Weight" of the desired regular production options from the corresponding Accessory Reserve Capacity Calculation/Worksheet on the following page
2. Subtract the "Total Actual Regular Production Option Content Weight" from the "Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)" for the appropriate model. The difference is the estimated "Total Accessory Reserve Capacity"

	Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)
–	Total Actual Regular Production Option Content Weight
=	Total Accessory Reserve Capacity

Warning: The Accessory Reserve Capacity weight information addresses FMVSS and CMVSS Nos. 204, 208, 212, 219, 301 and 303 compliance only. For all light-duty trucks with a GVW rating under 8,500 lbs., federally certified trucks with a GVW rating of 8,500 to 10,000 lbs. that are optionally emissions certified to light-duty standards and all California complete vehicles with a GVW rating of 14,000 lbs. or less, if more than 500 lbs. is added to the vehicle's "maximum vehicle weight,"⁽³⁾ the modifier may be responsible for recertification to the applicable EPA or CARB emissions standards.

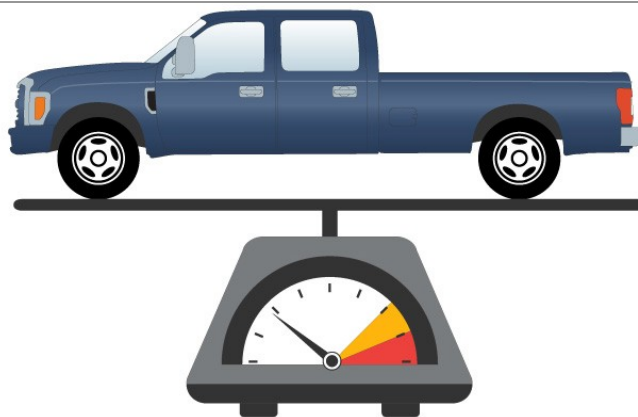
(1) Ford Motor Company's certification of compliance with FMVSS/CMVSS is based on specific vehicle test weights. These standards are applicable to completed vehicles of 10,000-lb. GVWR or less. Maximum allowable weights shown in the tables for vehicles above 10,000-lb. GVWR are maximum recommended values for optimum performance, durability and customer satisfaction.

(2) The same procedure to estimate the "Total Accessory Reserve Capacity" is recommended to completed vehicle alterers in Canada.

(3) **Important:** "Maximum vehicle weight" is calculated in accordance with the definition provided in an EPA guidance letter dated July 13, 1979, from C.N. Freed of the EPA to M.H. McBride, legal counsel of the Recreation Vehicle Industry Association. The preceding conditions are based on that letter and on EPA Advisory Circular No. 64 — a March 7, 1977, publication that provides guidance on the need for separate certification of vehicles modified after original manufacture, but prior to sale and delivery to the ultimate purchaser. Additional guidance or questions concerning EPA's policies with respect to alterers of completed vehicles should be directed to legal counsel or the Environmental Protection Agency.

Base Curb Weight

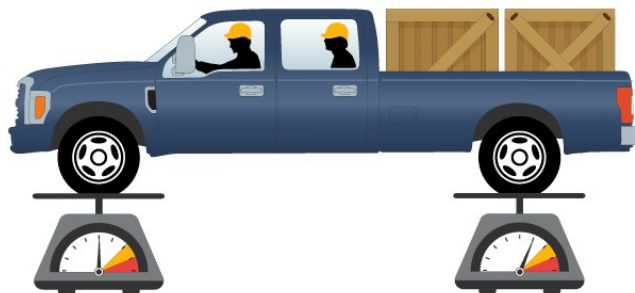
- The weight of the vehicle including standard equipment, oil, lubricants and a full tank of fuel. It does not include the weight of driver, passengers, cargo or any optional or aftermarket equipment
- **Base curb weights for each engine/standard equipment transmission combination are listed in the Weight Ratings pages of each vehicle section (see Maximum Payload Weight Ratings for reference)**
- Actual Regular Production Option Content Weights can be found in the charts under Actual Regular Production Option Content Weights



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Gross Axle Weight

The total weight placed on each axle of the vehicle (front and rear).



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Gross Axle Weight Rating (GAWR)

The maximum allowable weight to be placed on an individual axle (front or rear). Gross Axle Weight Ratings are provided for both front and rear axles.

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Gross Combination Weight (GCW)

Gross vehicle weight plus the trailer weight.



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Gross Combination Weight Rating (GCWR)

The maximum allowable weight of the towing vehicle, the trailer and all associated passengers, cargo and equipment.

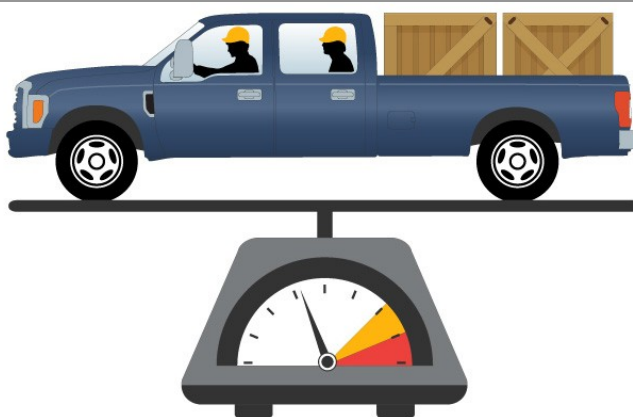
The point to remember is that the actual weights should never exceed the listed weight ratings. If recommended weight ratings are exceeded, the vehicle could be disqualified for warranty coverage.



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Gross Vehicle Weight (GVW)

The weight of the vehicle including driver, passengers, optional and aftermarket equipment, and all cargo.



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Gross Vehicle Weight Rating (GVWR)

The maximum allowable weight of the fully loaded vehicle (including passengers and cargo).



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Maximum Payload Weight Rating

This is the advertised payload rating. It is the maximum allowable payload for the truck, including driver, passengers, optional and aftermarket equipment, and cargo. The weight of the engine and its standard transmission is already factored into the Maximum Payload Weight Rating. If the engine is also available with an optional transmission, that engine/transmission weight can be found in the Actual Regular Production Option Content Weight charts. Max. payload varies and is based on accessories and vehicle configuration. See label on doorjamb for carrying capacity of a specific vehicle.

Vehicle Payload Calculation	Front/Total (lbs.)
Maximum Payload Weight Rating ⁽¹⁾	___ / ___
Less Total Actual Regular Production Option Content Weight (from Line A, Payload/GVWR Worksheet)	___ / ___
Equals Net Total Vehicle Payload (Front and rear axles and spring capacities will be sufficient to carry this payload uniformly distributed in vehicle cargo area)	___ / ___

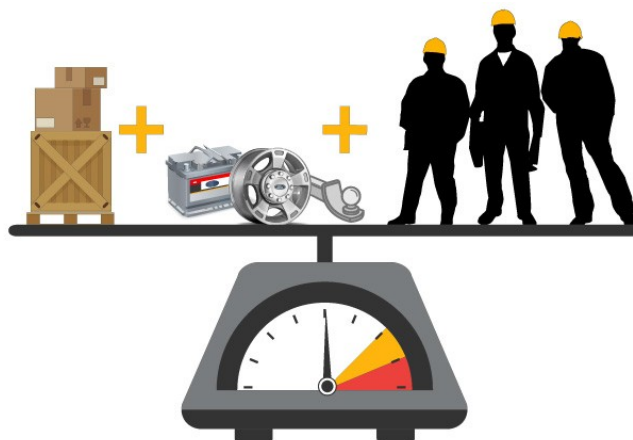
(1) Weight for driver and passengers must be deducted. Refer to the individual vehicle weight rating pages for maximum payload weight ratings. Refer to Regular Production Option Content Weight.

NOTE: Front springs are computer-selected to meet specific option requirements for each vehicle; HD front springs are standard if vehicle option weights require.

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Maximum Payload Weight Ratings

The Payload Weight Ratings and the Maximum Option Weight/Maximum Total Accessory Reserve Capacity (ARC) Weight Charts⁽¹⁾ are published and can be found in the weight ratings pages of the individual vehicle sections. This information is grouped together with other model, engine/transmission and maximum gross vehicle weight rating (GVWR) data for ease of use.

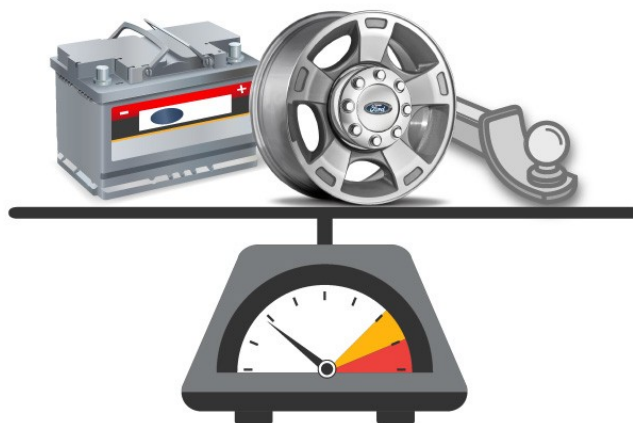


(1) OPT/ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

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Option Weights

The weight of any added equipment that is not included in the base curb weight.



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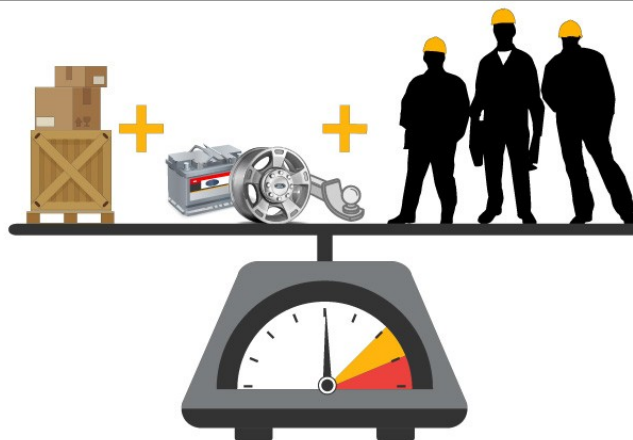
Passenger Weight

Defined as 150 lbs. multiplied by the number of safety-belted seating positions, including the driver, that the vehicle can carry.



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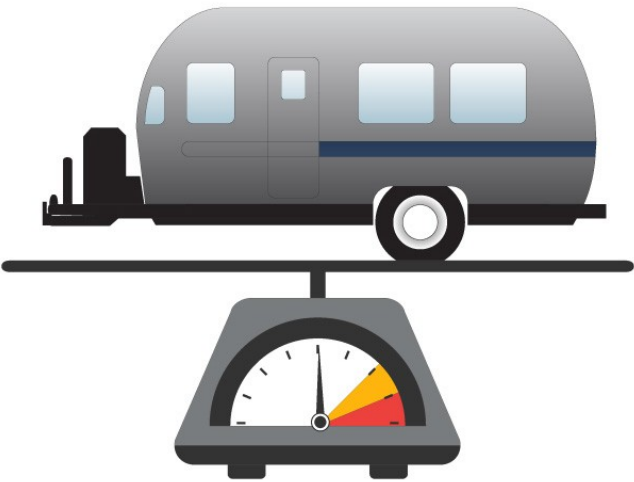
- Maximum payload is defined as the weight of all passengers, optional and aftermarket equipment, and cargo
- Net payload is defined as the weight that can be placed in the truck after subtracting for driver, passengers, and optional and aftermarket equipment

**2023 F-150 > Specs > Dimensions/Weights/Capacities > General Truck Payload Information****Tongue Weight**

The amount of the trailer's weight that bears down on the trailer hitch (10 to 15% of the total loaded conventional trailer weight or 15 to 25% of the total loaded 5th-wheel trailer weight).

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The weight of a fully loaded trailer, including all attachments, lights, etc.



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Truck “Nominal Tonnage”

“Nominal Tonnage” is a term that Ford and other manufacturers have historically used to **generally categorize** the load capacity of a vehicle series; it is not a term defined by federal or state law.

Our COV (Certificate of Origin for a Vehicle) includes each particular vehicle’s shipping weight, as well as the vehicle’s gross vehicle weight rating or GVWR (from which one can determine the particular vehicle’s rated carrying capacity, including driver, passengers, fluids, body upfit [if applicable] and aftermarket accessories). The COV also includes the vehicle’s “Nominal Tonnage.”

“Nominal Tonnage” provides the **general** usable cargo capability that most (but not all) of the vehicles with the designated nominal tonnage can expect to handle. That is, nominal tonnage states the general load capacity for each vehicle series, although particular vehicles may have a higher (or in some circumstances, lower) load capacity based on the specifications of the particular vehicle.

Relevant Vehicle Series/Nominal Tonnage Relationship Categories	
Nominal Tonnage	Vehicle
½	Ranger, F-150, Transit Connect, Transit Passenger Van
¾	E-350 Cutaway/Stripped Chassis, Transit-150 Cargo Van/Crew Van/Passenger Van, Transit-250 Cargo Van/Crew Van, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,499 lbs.), Transit-250 Cutaway/Chassis Cab, F-250 Pickup
1	E-450 Cutaway/Stripped Chassis, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,500 lbs.), Transit-350 Cutaway/Chassis Cab, F-350 Pickup, F-350 Chassis Cab
1½	F-450 Pickup, F-450 Chassis Cab
2	F-550 Chassis Cab

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Vehicle Class Ratings by GVWR

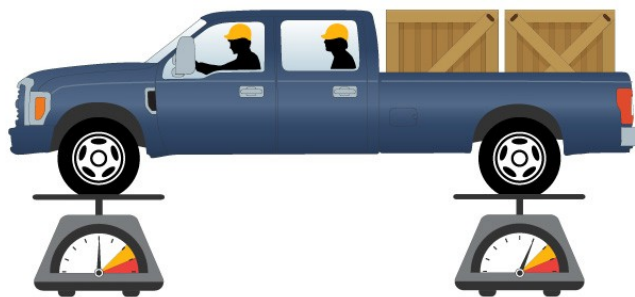
Weight Class	GVWR Range (lbs.)	Vehicle/Model
1	Up to 6,000	Transit Connect Cargo Van (5,110–5,302 lbs.) Transit Connect Passenger Wagon (5,302–5,420 lbs.)
2	6,001 to 10,000	Ranger (6,050 lbs.) Transit-150 Cargo Van/Passenger Van (8,670/8,550 lbs.) Transit-250 Cargo Van/Crew Van (9,070 lbs.) Transit-350 Cargo Van/Crew Van (9,250–9,950 lbs.) Transit-350 Passenger Van (9,250–9,550 lbs.) Transit-250 Cutaway/Chassis Cabs (9,070 lbs.) Transit-350 Cutaway/Chassis Cabs (9,500 and 9,950 lbs.) E-Transit T350 Cargo Van, Chassis Cab and Cutaway (9,500 lbs.) F-150 (6,070–7,850 lbs.) F-250 Pickup (9,900–10,000 lbs.) F-350 Pickup (10,000 lbs.) F-350 Chassis Cab SRW (9,800–10,000 lbs.)
3	10,001 to 14,000	E-350 Cutaway (10,050–12,500 lbs.) E-350 Stripped Chassis (11,500–12,500 lbs.) Transit-350 Cargo Van/Crew Van/Passenger Van (10,360 lbs.; 11,000 lbs. [Cargo Van only]) Transit-350 Cutaway/Chassis Cab (10,360 and 11,000 lbs.) F-250 Pickup (10,400–10,800 lbs.) F-350 SRW Pickup (10,100–12,400 lbs.) F-350 DRW Pickup (13,000 ⁽¹⁾ –14,000 lbs.) F-350 Chassis Cab SRW (10,500–11,500 lbs.) F-350 DRW Chassis Cab (14,000 lbs.) E-450 Cutaway (14,000 lbs.) E-450 Stripped Chassis (14,000 lbs.) F-450 Pickup (14,000 lbs.)
4	14,001 to 16,000	E-450 Cutaway (14,200–14,500 lbs.) E-450 Stripped Chassis (14,200–14,500 lbs.) F-450 Chassis (15,000–16,000 lbs.) F59 Commercial Stripped Chassis (16,000 lbs.) F53 Motorhome Chassis (16,000 lbs.)
5	16,001 to 19,500	F-450 Chassis Cab (16,500 lbs.) F-550 (17,500–19,500 lbs.) F59 Commercial Stripped Chassis (19,500 lbs.) F53 Motorhome Chassis (18,000 lbs.)
6	19,501 to 26,000	F-600 (22,000 lbs.) F-650 Gasoline (22,000–26,000 lbs.)/Diesel (22,000–26,000 lbs.) F59 Commercial Stripped Chassis (22,000 lbs.) F53 Motorhome Chassis (20,500–26,000 lbs.)
7	26,001 to 33,000	F-650 (27,500–29,000 lbs. Gas and Diesel) F-750 (31,000–33,000 lbs. Gas and Diesel)
8	33,001 and above	F-750 (34,200–37,000 lbs. Diesel)

(1) 13,000 lbs. Pickup Box Delete only.

2023 F-150 > Specs > Dimensions/Weights/Capacities > General Truck Payload Information

Weight Distribution

That portion of a vehicle's total weight that will be supported by each axle and each tire. Proper distribution of vehicle weight is critical to braking, handling and to the service life of components such as axles, springs, bearings and tires.



2023 F-150 > Specs > Dimensions/Weights/Capacities > Weight Ratings

Weight Ratings — 4x2

Cab Style/Drive/ WB (in.)	Engine	Max. GVWR (lbs.)	Max. Payload (lbs.) ⁽¹⁾	Max. Total ARC Weight (lbs.) ⁽²⁾	Max. GAWR (lbs.) ⁽³⁾		Base Curb Weight (lbs.)		
					Front	Rear	Front	Rear	Total
Regular Cab 4x2 122.8	3.3L PFDI V6	6,010	1,950	533	2,850	3,500	2,382	1,678	4,060
	2.7L EcoBoost	6,050	1,875	576	2,850	3,450	2,471	1,700	4,171
	5.0L PFDI	6,200	1,900	573	2,850	3,800	2,522	1,778	4,300
Regular Cab 4x2 141.5	3.3L PFDI V6	6,100	1,965	642	3,000	3,400	2,485	1,649	4,134
	2.7L EcoBoost	6,170	1,905	682	3,000	3,400	2,569	1,694	4,263
	2.7L EcoBoost ⁽⁴⁾	6,900	2,480	680	3,150	4,050	2,625	1,795	4,420
	5.0L PFDI	6,750	2,350	689	3,150	4,150	2,679	1,719	4,398
	3.5L EcoBoost	7,050	2,620	711	3,150	4,150	2,652	1,776	4,428
	5.0L PFDI ⁽⁵⁾	7,850	3,325	691	3,400	4,800	2,666	1,858	4,524
	3.5L EcoBoost ⁽⁵⁾	7,850	3,250	642	3,400	4,800	2,683	1,917	4,600
SuperCab 4x2 145.4	3.3L PFDI V6	6,250	1,850	658	3,150	3,400	2,575	1,825	4,400
	2.7L EcoBoost	6,325	1,815	806	3,300	3,400	2,649	1,859	4,508
	2.7L EcoBoost ⁽⁴⁾	6,750	2,175	845	3,375	3,800	2,657	1,916	4,573
	5.0L PFDI	6,900	2,345	844	3,375	3,800	2,727	1,827	4,554
	3.5L EcoBoost	6,900	2,290	878	3,375	3,800	2,690	1,917	4,607
SuperCab 4x2 164.1	2.7L EcoBoost	6,500	1,890	821	3,450	3,400	2,711	1,836	4,607
	2.7L EcoBoost ⁽⁴⁾	6,900	2,225	853	3,500	3,800	2,771	1,904	4,675
	5.0L PFDI	7,000	2,325	851	3,525	4,150	2,805	1,870	4,675
	3.5L EcoBoost	7,050	2,285	884	3,525	4,150	2,813	1,951	4,764
	5.0L PFDI ⁽⁵⁾	7,850	3,010	753	3,750	4,800	2,819	2,018	4,837
	3.5L EcoBoost ⁽⁵⁾	7,850	2,980	741	3,750	4,800	2,816	2,050	4,866
SuperCrew 4x2	3.3L PFDI V6	6,250	1,745	719	3,225	3,400	2,624	1,877	4,501

145.4	2.7L EcoBoost	6,400	1,815	896	3,375	3,400	2,682	1,902	4,584
	2.7L EcoBoost ⁽⁴⁾	6,650	1,960	896	3,375	3,800	2,716	1,973	4,689
	5.0L PFDI	6,800	2,135	895	3,450	3,800	2,748	1,913	4,661
	5.0L PFDI ⁽⁵⁾	7,050	2,335	845	3,450	4,150	2,748	1,963	4,711
	3.5L EcoBoost	6,750	2,050	927	3,375	3,800	2,717	1,979	4,696
	3.5L EcoBoost ⁽⁵⁾	7,050	2,300	877	3,375	4,150	2,717	2,029	4,746
	3.5L PowerBoost V6 Full Hybrid	7,350	2,090	848	3,750	4,150	3,058	2,202	5,260
SuperCrew 4x2 157.2	2.7L EcoBoost	6,450	1,830	902	3,450	3,400	2,756	1,860	4,616
	2.7L EcoBoost ⁽⁴⁾	6,800	2,085	900	3,500	3,800	2,771	1,944	4,715
	5.0L PFDI	6,950	2,235	881	3,525	4,150	2,823	1,889	4,712
	3.5L EcoBoost	7,000	2,245	931	3,525	4,150	2,798	1,954	4,752
	5.0L PFDI ⁽⁶⁾	7,850	2,900	795	3,750	4,800	2,879	2,071	4,950
	3.5L EcoBoost ⁽⁶⁾	7,850	2,880	784	3,750	4,800	2,867	2,100	4,967
	3.5L PowerBoost V6 Full Hybrid	7,350	2,120	940	3,750	4,150	3,098	2,130	5,228

(1) Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by available equipment weight.

(2) Total ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

(3) Gross Axle Weight Rating (GAWR) is determined by the rated capacity of the minimum component of the axle system (axle, computer selected springs, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR.

(4) Ratings based on 2.7L EcoBoost V6 Payload Package (622).

(5) Equipped with Max Trailer Tow Package (53C).

(6) Ratings based on Heavy-Duty Payload Package (627).

NOTE: Refer to Standard Equipment for Standard Powertrain/Chassis Equipment Specifications.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Dimensions/Weights/Capacities > Weight Ratings

Weight Ratings — 4x4

Cab Style/Drive/ WB (in.)	Engine	Max. GVWR (lbs.)	Max. Payload (lbs.) ⁽¹⁾	Max. Total ARC Weight (lbs.) ⁽²⁾	Max. GAWR (lbs.) ⁽³⁾		Base Curb Weight (lbs.)		
					Front	Rear	Front	Rear	Total
Regular Cab 4x4 122.8	3.3L PFDI V6	6,050	1,705	511	3,000	3,400	2,610	1,734	4,344
	2.7L EcoBoost	6,150	1,705	598	3,150	3,400	2,677	1,764	4,441
	5.0L PFDI	6,400	1,835	583	3,150	3,800	2,769	1,795	4,564
Regular Cab 4x4 141.5	3.3L PFDI V6	6,325	1,910	624	3,150	3,400	2,712	1,700	4,412
	2.7L EcoBoost	6,435	1,885	699	3,300	3,400	2,837	1,709	4,546
	2.7L EcoBoost ⁽⁴⁾	6,800	2,125	704	3,300	3,800	2,874	1,798	4,672
	5.0L PFDI	6,950	2,300	752	3,375	4,150	2,887	1,763	4,650
	3.5L EcoBoost	7,050	2,360	735	3,300	4,150	2,839	1,851	4,690
	5.0L PFDI ⁽⁵⁾	7,850	3,050	674	3,400	4,800	2,895	1,902	4,797

	3.5L EcoBoost ⁽⁵⁾	7,850	3,035	665	3,400	4,800	2,882	1,932	4,814
SuperCab 4x4 145.4	3.3L PFDI V6	6,480	1,840	696	3,375	3,400	2,799	1,839	4,638
	2.7L EcoBoost	6,500	1,735	818	3,600	3,400	2,908	1,854	4,762
	2.7L EcoBoost ⁽⁴⁾	7,000	2,165	852	3,600	3,800	2,894	1,937	4,831
	5.0L PFDI	7,050	2,240	888	3,600	3,800	2,929	1,881	4,810
	3.5L EcoBoost	7,050	2,190	883	3,600	3,800	2,907	1,953	4,860
SuperCab 4x4 164.1	5.0L PFDI	7,150	2,205	899	3,650	4,150	2,929	2,012	4,941
	3.5L EcoBoost	7,150	2,125	892	3,600	4,150	2,898	2,127	5,025
	5.0L PFDI ⁽⁵⁾	7,850	2,765	782	3,750	4,800	2,975	2,107	5,082
	3.5L EcoBoost ⁽⁵⁾	7,850	2,740	770	3,750	4,800	2,969	2,137	5,106
SuperCrew 4x4 145.4	3.3L PFDI V6	6,470	1,720	744	3,450	3,400	2,841	1,906	4,747
	2.7L EcoBoost	6,600	1,760	842	3,600	3,400	2,916	1,922	4,838
	2.7L EcoBoost ⁽⁴⁾	6,900	1,965	903	3,600	3,800	2,937	1,994	4,931
	5.0L PFDI	7,050	2,135	939	3,650	4,150	2,976	1,936	4,912
	3.5L EcoBoost	7,050	2,100	934	3,650	4,150	2,944	2,004	4,948
	3.5L PowerBoost V6 Full Hybrid	7,350	1,830	846	3,900	4,150	3,253	2,264	5,517
SuperCrew 4x4 145.6 (Tremor)	3.5L EcoBoost	7,000	1,885	598	3,600	3,800	2,970	2,145	5,115
SuperCrew 4x4 145.4 (Raptor std.)	H.O. 3.5L EcoBoost	7,150	1,400	540	3,750	3,800	3,301	2,456	5,757
SuperCrew 4x4 145.4 (Raptor 37)	H.O. 3.5L EcoBoost	7,300	1,400	429	3,750	3,850	3,362	2,505	5,867
SuperCrew 4x4 145.4 (Raptor R)	5.2L Supercharged V8	7,450	1,400	TBD	3,850	3,925	3,454	2,496	5,950
SuperCrew 4x4 157.2	5.0L PFDI	7,150	2,135	870	3,850	4,150	3,098	1,916	5,014
	3.5L EcoBoost	7,150	2,155	938	3,750	4,150	3,011	1,984	4,995
	5.0L PFDI ⁽⁵⁾	7,850	2,650	824	3,750	4,800	3,115	2,084	5,199
	3.5L EcoBoost ⁽⁶⁾	7,850	2,640	813	3,750	4,800	3,099	2,110	5,209
	3.5L EcoBoost V6 Full Hybrid	7,350	1,810	890	4,050	4,150	3,332	2,208	5,540

(1) Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by available equipment weight.

(2) Total ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

(3) Gross Axle Weight Rating (GAWR) is determined by the rated capacity of the minimum component of the axle system (axle, computer selected springs, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR.

(4) Ratings based on 2.7L EcoBoost V6 Payload Package (622).

(5) Ratings based on Heavy-Duty Payload Package (627).

(6) Limited model.

NOTE: Refer to Standard Equipment for Standard Powertrain/Chassis Equipment Specifications.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs

Standard Equipment

[F-150 4x2 Pickup](#)
[F-150 4x4 Pickup](#)

2023 F-150 > Specs > Standard Equipment

F-150 4x2 Pickup

POWERTRAIN:		Refer to the Order Guide for 50 States Usage
Engine	Type	3.3L PFDI V6
Transmission	Type	10-speed automatic with Selectable Drive Modes
AXLES:		
Front Axle	Type	Long-spindle, double-wishbone, coil-over-shock IFS
	Gross Axle Weight Rating (GAWR) (lbs.)	2,850-3,450
Rear Axle	Type	Semi-floating
	Gross Axle Weight Rating (GAWR) (lbs.)	3,500 (Reg. Cab 141.5 WB is 3,400)
BRAKES:		
Front/Rear Disc	Type	Vented with Nitro Tough Iron, twin-piston front and single-piston rear caliper
	Rotor Diameter — Front/Rear	13.8"/13.7" 350 mm/336 mm
Anti-Lock Brake System		4-wheel (4-channel with electronic brakeforce distribution)
Parking Brake		Electric (rear)
ELECTRICAL:		
Alternator	Rating	200-amp
Battery	Type	Maintenance-free (Battery Saver System standard)
	Rating	70-AH, 610 CCA; 80-AH, 730 CCA
Harnesses	Type	3-pin connector
FUEL TANK:	Capacity	23.0 gal.
JACK:	Capacity	2 tons
STEERING:	Type	Power, rack-and-pinion; electric power-assist
	Ratio	20.4:1 (122.8" and 141.5" WB) 17.4:1 (145.4", 157.2" and 164.1" WB)
SUSPENSION:		
Frame	Type	Fully boxed, modular high-strength steel with 8 crossmembers that are welded on both sides
	Section Modulus (cu. in.)	See frame specifications
Springs, Front	Type	Coil, computer selected
Springs, Rear	Type	Leaf, two-stage variable-rate, computer selected
Shock Absorbers	Gas-pressurized Monotube — Front/Rear	1.1"/1.1" 28 mm/28mm
Stabilizer Bar	Position/Diameter/Type	Front/27.0 mm/solid ⁽¹⁾
TIRES:	Type	Steel-belted radial all-season less 8,200-lb. GVWR; steel-belted radial all-terrain with 8,200-lb. GVWR

	Size	Four 235/75R17 less 8,200-lb. GVWR; four LT245/75R17E with 8,200-lb. GVWR
	Spare Tire Carrier	Rear underframe, winch-type with safety catch (locking-type, lock cylinder in rear bumper opened by ignition key)
WHEELS:	Type and Size	Four 17" x 7.5" gray styled steel (6-hole disc) or 17" x 7.5" 7-lug steel (7-hole disc) with 8,200-lb. GVWR

(1) Stabilizer bar changes to a hollow 25.4 mm with any configuration that includes the 3.3L PFDI/2.7L EcoBoost V6 engine and 3,400 RGAWR.

NOTE: Refer to Weight Ratings for Standard & Available Weight Rating Specifications (GVWR/Payload/Spring & GAWR/Base Curb Weight).

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Standard Equipment

F-150 4x4 Pickup

		F-150	F-150 Tremor	F-150 Raptor
POWERTRAIN:				
Engine	Type	3.3L PFDI V6	3.5L EcoBoost V6	High-Output 3.5L EcoBoost V6
Transmission	Type	10-speed automatic with Selectable Drive Modes		
Transfer Case	Type	Electronic shift		
	Low/High Gear Ratio	2.64:1/1.00:1		
AXLES:				
Front	Type	Long-spindle, double-wishbone, coil-over-shock IFS		
	Gross Axle Weight Rating (FGAWR) (lbs.)	3,000-3,850	3,600	3,750
Rear	Type	Semi-floating		
	Gross Axle Weight Rating (RGAWR) (lbs.)	3,400-4,150	3,800	
BRAKES:				
Front/Rear Disc	Type	Vented with Nitro Tough Iron, twin-piston front and single-piston rear caliper		
	Rotor Diameter — Front/Rear	13.8"/13.7" 350 mm/336 mm		
Anti-Lock Brake System		4-wheel (4-channel with electronic brakeforce distribution)		
Parking Brake, Integrated Electric (rear)		18.5 kN	25.5 kN	
ELECTRICAL:				
Alternator	Rating	200-amp	240-amp	
Battery	Type	Maintenance-free (Battery Saver System standard)		
	Rating	70-AH, 610 CCA; 80-AH, 730 CCA	80-AH, 800 CCA	
Harnesses	Type	3-pin connector		
FUEL TANK:	Capacity	23.0 gal.		36.0 gal.
JACK:	Capacity	2 tons		
STEERING:	Type	Power, rack-and-pinion; electric power-assist		
	Ratio	20.4:1 (122.8" and 141.5"	17.4:1	17.2:1

		WB) 17.4:1 (145.4", 157.2" and 164.1" WB)		
SUSPENSION:				
Frame	Type	Fully boxed, modular high-strength steel with 8 crossmembers that are welded on both sides		
	Section Modulus (cu. in.)	See frame specifications		
Springs, Front	Type	Coil, computer selected		
Springs, Rear	Type	Leaf, two-stage variable-rate, computer selected		Coil, computer selected
Shock Absorbers	Gas-pressurized — Front/Rear	Monotube 1.1"/1.1" 28 mm/28 mm	Monotube/twin-tube 1.10"/1.26" 28 mm/32 mm	Monotube/twin-tube electronically controlled with external reservoir 0.875"/0.875" 22 mm/22 mm
Stabilizer Bar	Position/Diameter/Type	Front/25.4 mm/hollow	Front/27.0 mm/solid	
TIRES:	Type	Steel-belted radial all-terrain		
	Size	Four 235/75R17	Four 275/70R18 (33") AT/X	Five LT315/70R17 (35")
	Spare Tire Carrier	Rear underframe, winch-type with safety catch (locking-type, lock cylinder in rear bumper opened by ignition key)		
WHEELS:	Type and Size	Four 17" x 7.5" gray styled steel	Four 18" x 7.5" cast aluminum	Five 17" x 8.5" cast aluminum

NOTE: Refer to Weight Ratings for Standard & Available Weight Rating Specifications (GVWR/Payload/Spring & GAWR/Base Curb Weight).

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs

Powertrain

10-speed Automatic Transmission Specifications	Engine	Transfer Case Specifications
Cooling System Specifications	Fuel System Data	

2023 F-150 > Specs > Powertrain

10-speed Automatic Transmission Specifications

Make/Type	Ford 10-Speed Automatic Overdrive (10R80)
Engine	All
Ratios (to 1):	
1st	4.696
2nd	2.985
3rd	2.146
4th	1.769
5th	1.520
6th	1.275
7th	1.000

8th	0.854
9th	0.689
10th	0.636
Reverse	4.866
Converter Size (mm) and Type	260 with turbine damper
Converter Stall Ratio	1.82:1
Lubricant Capacity (qt.)	12.2
Planetary	Simple (4)
Helical Gears	All
Oil Cooler	Raptor only — 6-channel
Turbine Speed Sensor System	Yes with (4) internal speed sensors
Fully Electronic Shift Scheduling	Yes
Weight (lbs.; Fluid)	231 (4x2)/234 (4x4)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Powertrain

Cooling System Specifications

Engine	Radiator Usage	Frontal Area ⁽¹⁾ (sq. cm)	Core Size (mm)			Rows of Tubes	Fins Per Inch	Cooling System Cap. (liters)	Fans	
			Height	Width	Core				Diameter (Left/Right) (mm)	No. of Blades (Left/Right)
3.3L PFDI V6	Standard	4,000	454.3	880	26	56	75	12	375/395	5/7
2.7L EcoBoost V6	Standard	4,000	454.3	880	26	56	75	14.3	375/395	5/7
	Trailer Tow ⁽²⁾	4,000	454.3	880	32	56	75			
5.0L PFDI V8	Standard	4,000	454.3	880	26	56	75	12.5	375/395	5/7
3.5L EcoBoost V6	Standard	4,000	454.3	880	26	56	75	13.5	375/395	5/7
	Trailer Tow ⁽³⁾	4,000	457.4	880	28	61	85			
3.5L PowerBoost V6 Full Hybrid	Standard	4,000	457.4	880	28	61	85	14.5	375/395	5/7
High-Output 3.5L EcoBoost V6 (Raptor)	Standard	4,000	454.3	880	32	56	75	14.75	375/395	5
5.2L Supercharged V8 (Raptor R)	Standard	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

(1) Based on front face area of the radiator.

(2) Trailer tow class Heavy CICAЕ.

(3) Trailer tow class Heavy CICAЕ, Max CICAР and SuperMax CICAQ.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Powertrain

Engine

Driveline Layout	Front engine, rear wheel (4x2 or 4x4)					Front engine, 4x4	
Engine Type	3.3L PFDI V6	2.7L EcoBoost V6	5.0L PFDI V8	3.5L EcoBoost V6	3.5L PowerBoost Full Hybrid V6	High-Output 3.5L EcoBoost V6	5.2L Supercharged V8
Displacement (liters/cu. in.)	3.3/204	2.7/165	5.0/307	3.5/214	3.5/214	3.5/214	5.2/315
Horsepower @ rpm	290 @ 6,500	325 @ 5,500	400 @ 6,000	400 @ 6,000	430 @ 6,000 ⁽¹⁾	450 @ 5,850 ⁽²⁾	700 @ 6,650 ⁽²⁾
Torque (lb.-ft. @ rpm)	265 @ 4,000	400 @ 3,500	410 @ 4,250	500 @ 3,100	570 @ 3,000 ⁽¹⁾	510 @ 3,000 ⁽²⁾	640 @ 4,250 ⁽²⁾
Compression Ratio	12.0:1	10.0:1	12.0:1	10.5:1	10.5:1	10.5:1	9.5:1
Valvetrain	DOHC						
Valve Operation	Roller finger follower						
Bore & Stroke (in.)	3.56 x 3.41	3.27 x 3.27	3.63 x 3.65	3.64 x 3.41	3.64 x 3.41	3.64 x 3.41	3.70 x 3.67
Main Bearings	4	4	5	4	4	4	5
Induction	Naturally aspirated	Twin turbocharged	Naturally aspirated	Twin turbocharged			Supercharged
Fuel System	Port Fuel Direct-Injection (PFDI) dual system						Sequential multiport (PFI)
Fuel Requirement	87 octane (min.)					Premium unleaded 91+ (rec.)	

(1) Calculated via combined performance of the engine and electric motor with peak battery power. The calculations utilize SAE J1349® engine results and Ford electric motor dyno testing. Your results may vary.

(2) Horsepower and torque ratings based on premium fuel per SAE J1349® standard. Your results may vary.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Powertrain

Fuel System Data

Fuel Injection	All Engines	Port Fuel/Direct-Injection (PFDI)
Fuel Pump	Single Electric In-Tank High-Pressure	
	In-Tank Electric High-Pressure Engine-Mounted Booster	
Fuel Filter	All Engines	In-Tank Lifetime
Air Cleaner	All Engines	Dry Element, Replaceable

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Powertrain

Transfer Case Specifications

Shift Type	Electric Shift-on-the-Fly (ESOF)/ 2-Speed Automatic Four-wheel Drive (4WD)	Electric Shift-on-the-Fly (ESOF)/2-Speed Automatic with Mechanical Locking Four- Wheel Drive (4WD)
Gear Type	2-Speed Planetary Gears	
Lubricant Capacity (qts.)	1.3	1.5
Gear Ratio — High	1.00:1	
Gear Ratio — Low	2.64:1	
Case Material	Magnesium	

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs

Chassis

Brake System Specifications

Frame Specifications

Front Axle Specifications

Rear Axle Specifications

Rear Axle Specifications — Raptor

Shock Absorber Specifications

Shock Absorber Specifications — Raptor

Spring Specifications — Front Coil

Spring Specifications — Raptor Rear Coil

Spring Specifications — Rear Leaf

Steering

Tire Specifications

Wheel Specifications

2023 F-150 > Specs > Chassis

Front Axle Specifications

Series/Model		F-150 4x2	F-150 4x4	F-150 Raptor 4x4
Type		Long-spindle double-wishbone, coil-over-shock independent front suspension		
Gross Axle Weight Rating (FGAWR) (lbs.)		2,850-3,750	3,400-4,800	3,750
Upper Control Arm	Material	Stamped steel		Forged steel
Lower Control Arm	Material	Stamped steel		Cast aluminum
Spring	Type	Coil-over-shock, computer selected		
Ball Joints		Lubed-for-life		
Spindle	Material	Cast-aluminum body with forged steel stem		
Wheel Bearings	Type	Self-retained tapered roller (GEN II cartridge)		

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Rear Axle Specifications

Series/Model		F-150 4x2			F-150 4x4		
Gross Axle Weight Rating (RGAWR) (lbs.)		3,400-3,800	3,800-4,050	4,800 ⁽¹⁾	3,400-3,800	3,800-4,050	4,800 ⁽¹⁾
Make		Standard/electronic-locking		Electronic-locking	Standard/Electronic-locking		Electronic-locking
Axle Ratios (:1)		3.15, 3.31, 3.55, 3.73	3.31, 3.55, 3.73	3.55, 3.73	3.15, 3.31, 3.55, 3.73	3.31, 3.55, 3.73	3.55, 3.73
Ring Gear	Pitch Diameter (in.)	8.80	9.75	9.75HD	8.80	9.75	9.75HD
Housing	Type	Cast center					
	Cover Attachment	Bolted					
	Cover Seal Method	RTV silicone	Gasket		RTV silicone	Gasket	
Lubricant Capacity (pt.)		4.0–4.15	4.5–4.65		4.0–4.15	4.5–4.65	
Wheel Bearings	Type	Straight roller		Tapered roller	Straight roller		Tapered roller
Gears	Type	Hypoid					
	Material	Alloy steel					
Pinion	Mounting	Overhung					
Differential	Type	2-pinion					
	Bearings	Tapered roller					

(1) With Heavy-Duty Payload Package.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Rear Axle Specifications — Raptor

Series/Model		F-150 Raptor 4x4
Gross Axle Weight Rating (RGAWR) (lbs.; at ground 35"/37" tire)		3,800/3,850
Make		Electronic-locking
Axle Ratios (:1)		4.10
Ring Gear	Pitch Diameter (in.)	9.75HD
Housing	Type	Cast center
	Cover Attachment	Bolted
	Cover Seal Method	Gasket
Lubricant Capacity (pt.)		5-5.15
Wheel Bearings	Type	Straight roller
Gears	Type	Hypoid
	Material	Alloy steel
Pinion	Mounting	Overhung

Differential	Type	2-pinion
	Bearings	Tapered roller

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Brake System Specifications

	Standard	Heavy-Duty (incl. Raptor)	With Heavy-Duty Payload or Max Trailer Tow Package
Description	Power vented disc with Anti-Lock Brake System (ABS), electronically controlled brake boost and Automatic Emergency Braking (AEB)		
Front Specifications			
Rotor Material	Nitro Tough Iron		
Rotor Size (dia. x thickness) (mm)	350 x 34		
Swept Area (sq. mm)	51,547		
Caliper Description	Sliding-caliper, dual-piston		
Caliper Piston Dia. (x2; mm)	51		
Rear			
Rotor Material	Nitro Tough Iron		
Rotor Size (dia. x thickness) (mm)	336 x 20		350 x 24
Caliper Description	Sliding-caliper, single-piston with electric integrated parking brake (eIPB)		
Caliper Piston Dia. (mm)	54/2.13		
Swept Area (sq. mm)	40,998		42,997
Electric Parking Brake Rating (kN)	18.5	25.5	

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Frame Specifications

Model	Wheelbase (in.)	No. of Crossmembers	Maximum Side Rail Section (in.)	Section Modulus (cu. in.)	Yield Strength (psi)
Regular Cab 4x2	122.8	8	9.06 x 3.58 x .087 (LD) 9.06 x 3.58 x .094 (HD)	4.726 5.14	34,800 34,800
	141.5	8	9.06 x 3.58 x .087 (LD) 9.06 x 3.58 x .102 (HD/HPP)	4.726 5.55	49,300 49,300
Regular Cab 4x4	122.8	8	9.06 x 3.58 x .087 (LD) 9.06 x 3.58 x .094 (HD)	4.726 5.14	34,800 34,800
	141.5	8	9.06 x 3.58 x .102 (HD/HPP)	5.55	49,300
SuperCab 4x2	145.4	8	9.06 x 3.58 x .087 (LD)	4.726	49,300

			9.06 x 3.58 x .094 (HD)	5.14	49,300
SuperCab 4x4	145.4	8	9.06 x 3.58 x .094 (HD)	5.14	49,300
SuperCrew 4x2	145.4	8	9.06 x 3.58 x .094 (HD) 9.06 x 3.58 x .102 (HPP)	5.14 5.55	49,300 49,300
SuperCrew 4x4	145.4/145.6 Tremor	8	9.06 x 3.58 x .094 (HD) 9.06 x 3.58 x .102 (HPP)	5.14 5.55	49,300 49,300
Raptor SuperCrew 4x4	145.4	8	9.06 x 3.58 x .102	5.86	49,300
SuperCrew 4x2	157.2	8	9.06 x 3.58 x .102 (HPP)	5.55	49,300
SuperCrew 4x4	157.2	8	9.06 x 3.58 x .094 (HD) 9.06 x 3.58 x .102 (HPP)	5.14 5.55	49,300 49,300
SuperCab 4x2	164.1	8	9.06 x 3.58 x .11 (HD/HPP)	5.96	49,300
SuperCab 4x4	164.1	8	9.06 x 3.58 x .11 (HD/HPP)	5.96	49,300

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Shock Absorber Specifications

Usage	Front			Rear		
	No. Used	Piston Dia.	Type	No. Used	Piston Dia.	Type
Standard	2	28 mm/1.10 in.	Monotube gas-pressurized	2	28 mm/1.10 in 32 mm/1.26 in.	Monotube gas-pressurized Twin-tube gas-pressurized

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Shock Absorber Specifications — Raptor

Front			Rear		
Piston Dia. (in.)	Rod Dia. (in.)	Type	Piston Dia. (in.)	Rod Dia. (in.)	Type
2.5	.0.875/1.0 (std./opt)	Position-sensitive, electronically controlled compression, gas-pressurized monotube FOX™ shocks with 3.1" body	2.5	.0.875	Position-sensitive, electronically controlled compression, monotube FOX shocks with 3.1" body

FOX is a trademark of FOX Factory Inc.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Spring Specifications — Front Coil

Model	Combined Rating @ Ground (lbs.)	Normal Working Height of Spring (in.)	Inside Dia. (in.)	Wire Dia. (in.)	Deflection Rate @ Ground (lbs. per in. ea.)
4x2/4x4 ⁽¹⁾	2,850	12.0	3.79	.619	314
	3,000	12.0	3.79	.640	354
	3,150	12.0	3.79	.659	394
	3,225	12.0	3.79	.678	434
	3,300	12.0	3.79	.678	434
	3,375	12.0	3.79	.695	474
	3,450	12.0	3.79	.695	474
	3,525	12.0	3.79	.712	514
	3,600	12.0	3.79	.712	514
	3,750	12.0	3.79	.727	554
4x2/4x4 ⁽²⁾	3,400	12.0	3.79	.744	634
	3,750	12.0	3.79	.752	634
Raptor SuperCrew 4x4	3,750	14.3	3.75	.799	600
	3,850	14.3	3.75	.799	628

(1) Except Heavy-Duty Payload Package.

(2) With Heavy-Duty Payload Package only.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Spring Specifications — Raptor Rear Coil

Model	Combined RGAWR Rating (lbs.)	Curb Height of Spring (in.)	Inside Dia. (in.)	Wire Dia. (in.)	Spring Rate (lb./in.)
SuperCrew 4x4	3,800 (std.) 3,850 (Raptor 37) 3,925 (Raptor R)	14.7	5.50	0.670	63/148/223

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Spring Specifications — Rear Leaf

Comb. Rating @ Ground (lbs.)	Number of Leaves	Total Thickness @ Pad (in.)	Flat Length ⁽¹⁾ (in.)	Width (in.)	Deflection Rate (lbs. per in./spring)
3,400	2	1.9	61.5	3.0	219.8/325.5
3,800	2	1.9	61.5	3.0	219.8/388.3
4,050/4,150	3	1.6	61.5	3.0	247/388
4,800	3	1.6	61.5	3.0	274/431

(1) Length measured at bushings, center to center.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Steering

Cab	Wheelbase (in.)	Rack-and-Pinion Power Steering ⁽¹⁾		Turning Diameter Curb-to-Curb (ft.)
		Rack Speed (mm per Revolution)	Vehicle Steering Ratio	
Regular	122.8	45.7	20.4:1	41.2
	141.5	45.7	20.4:1	46.4
SuperCab	145.4	54.5	17.4:1	47.8
	164.1	54.5	17.4:1	52.5
SuperCrew	145.4 and 145.6 (Tremor)	54.5	17.4:1	47.8
	145.4 (Raptor)	54.5	17.2:1	47.3
	157.2	54.5	17.4:1	51.1

(1) All gears include nibble damper.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Tire Specifications

Size	Rim Width (in.)	Section Width (in.)	Static Loaded Radius (in.)
245/70R17 110T A/S	7.5	9.84	13.47
265/70R17 115T A/T	7.5	10.58	13.79
265/60R18 110T A/S (T82)	7.5	10.57	13.55
275/65R18 110T A/S (T84)	7.5	10.57	13.55
275/65R18 116T A/T	7.5 and 8.5	11.22	14.28
275/50R22 111T A/S	8.5	10.90	19.98
275/65R18 116T A/T (T88)	7.5	10.84	14.18
275/60R20 115T A/S (T22)	8.5	11.40	14.95
275/60R20 115T A/T (T24)	8.5	10.79	14.49

275/60R20 115T A/T (T2P)	8.5	11.10	14.75
LT265/70R17C 112/109S A/T (T7C)	8.5	10.75/10.79 (112/109S)	14.62
LT315/70R17 (35") A/T (Load Range "C"- 113T) (Raptor)	8.5	12.5	15.80
37x12.50R17LT A/T (Load Range "C"- 116S) (Raptor)	8.5	12.1	16.40
275/70R18 A/T	TBA	TBA	TBA
LT265/70R18C 113/109S A/T (T8C)	7.5 and 8.5	10.53	15.14

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Chassis

Wheel Specifications

Wheel Type	Wheel Size (in.)	Inset (in./mm)	No. of Studs	Bolt Circle (in./mm)	Maximum Wheel Capacity Load Front/Rear (lbs.)
Cast aluminum (64B)	17 x 8.5	1.3/34	6	5.3/135	1,900/1,925
Forged-aluminum, beadlock-capable (64D)	17 x 8.5	1.3/34	6	5.3/135	1,900/1,925
"Raptor 37" forged-aluminum, beadlock-capable (68R)	17 x 8.5	1.2/30	6	5.3/135	1,900/1,925
Silver-painted steel (64C)	17 x 7.5	1.73/44	6	5.3/135	2,025/2,249
Silver-painted aluminum (64F)	17 x 7.5	1.73/44	6	5.3/135	2,025/2,249
6-spoke aluminum with gloss black-painted pockets (64X) and Magnetic-painted pockets (64R)	18 x 8.5	1.73/44	6	5.3/135	2,025/2,249
Silver-painted heavy-duty aluminum (64H; Heavy-Duty Payload Package [627])	18 x 8.5	1.73/44	6	5.3/135	2,100/2,400
Chrome-like PVD aluminum (64T)	18 x 7.5	1.73/44	6	5.3/135	2,025/2,249
18" aluminum with Dark Matte finish (Tremor only)	18 x 7.5	1.73/44	6	5.3/135	2,025/2,249
6-spoke machined aluminum with Magnetic-painted pockets (642)	20 x 8.5	1.73/44	6	5.3/135	1,875/2,083
Machined aluminum with Light Caribou-painted pockets (64G)	20 x 8.5	1.73/44	6	5.3/135	2,025/2,249
Chrome-like PVD aluminum (64L)	20 x 8.5	1.73/44	6	5.3/135	2,025/2,249
6-spoke Dark Alloy-painted aluminum (64S)	20 x 8.5	1.73/44	6	5.3/135	2,025/2,249
Polished aluminum (64P)	20 x 8.5	1.73/44	6	5.3/135	2,025/2,249
Polished aluminum (64Z)	22 x 8.5	1.73/44	6	5.3/135	1,950/2,166

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs

Special Applications

Completed Vehicle Weight

Electrical Connections

Trailer Towing/Camper Information

Front-End Wheel Alignment and Headlamp Aim

2023 F-150 > Specs > Special Applications

Trailer Towing/Camper Information

For additional towing information, refer to the RV & Trailer Towing Guide, available as a printable PDF on **eSourceBook** or the vehicle Owner's Manual for more information.



2023 F-150 > Specs > Special Applications

Completed Vehicle Weight

The weight of the completed vehicle with equipment installed (and second unit body, if applicable) must not exceed the Front GAWR, Rear GAWR or GVWR established by Ford. If sufficient weight is added such that the completed vehicle with a driver and more than one passenger would exceed Front GAWR, Rear GAWR or GVWR, it is the responsibility of the equipment installer to notify the customer of the appropriate use restrictions (i.e., that the user should limit occupancy of the vehicle to the driver and one passenger while the equipment is installed). The addition of ballast weight, placed rearward of the rear axle, may be required to prevent front-end overloading or exceeding Front GAWR. If required, the ballast weight must be securely attached to the vehicle. For Ford completed vehicles of 10,000 lbs. GVWR or less, the weight of permanently attached equipment must not exceed the Total Accessory Reserve Capacity (TARC) as specified on the Safety Compliance Certification Label. Exceeding TARC will require recertification.



2023 F-150 > Specs > Special Applications

Front-End Wheel Alignment and Headlamp Aim

Front-end wheel alignment (toe) and headlamp aim may require adjustment after installation of equipment, and is the responsibility of the equipment installer. Failure to reset front wheel alignment may cause premature, uneven tire wear. If required, reset to chassis manufacturer's specifications found in the Ford Shop Manual.



2023 F-150 > Specs > Special Applications

Electrical Connections

Installation of any inductive load devices (i.e., electric motors, electric clutches for clutch pumps, etc.) MUST NOT be connected to OEM wiring or fuse panels. Power for such devices should be taken directly from the battery or starter motor relay power terminal. Control of these devices should be achieved via relays. No direct current path should exist between OEM wiring and the installed load that is not filtered by the battery. These recommendations are intended to reduce or eliminate any induced reverse voltage into the OEM circuitry.



2023 F-150 > Specs

Electrical

200-Amperes Alternator
240-Amperes Alternator

Alternator Specifications
Battery Applications
Cold Weather Recommendations

Light Specifications and Usage
Standard Lighting/Reflector Equipment
Trailer Towing Wiring Harness

2023 F-150 > Specs > Electrical

Alternator Specifications

Output (ampere) ⁽¹⁾	200	240
Output (watts)	2,700	3,240

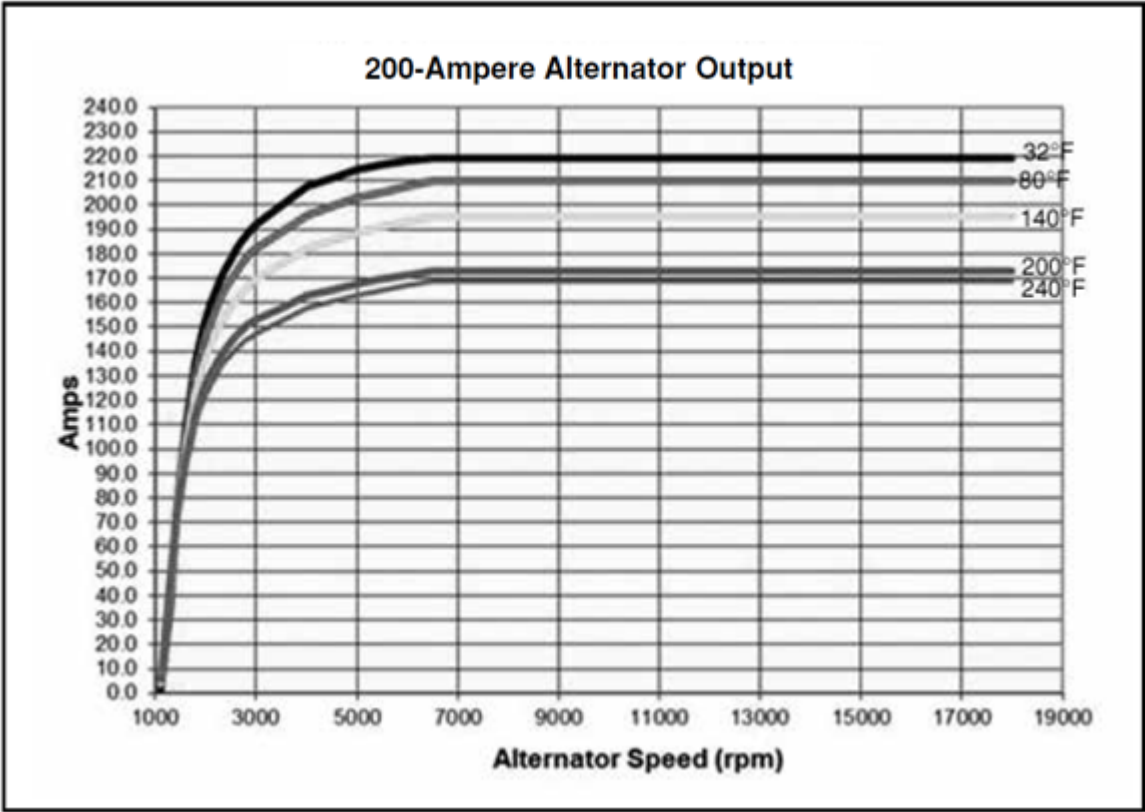
(1) Actual output is temperature- and application-dependent.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical > Alternator Performance Curves

200-Amperes Alternator

Engine	Pulley Ratio	Model Application
2.7L EcoBoost V6, 3.3L PFDI V6, 3.5L EcoBoost V6	2.67:1	XL and XLT
5.0L PFDI V8	2.81:1	XL and XLT

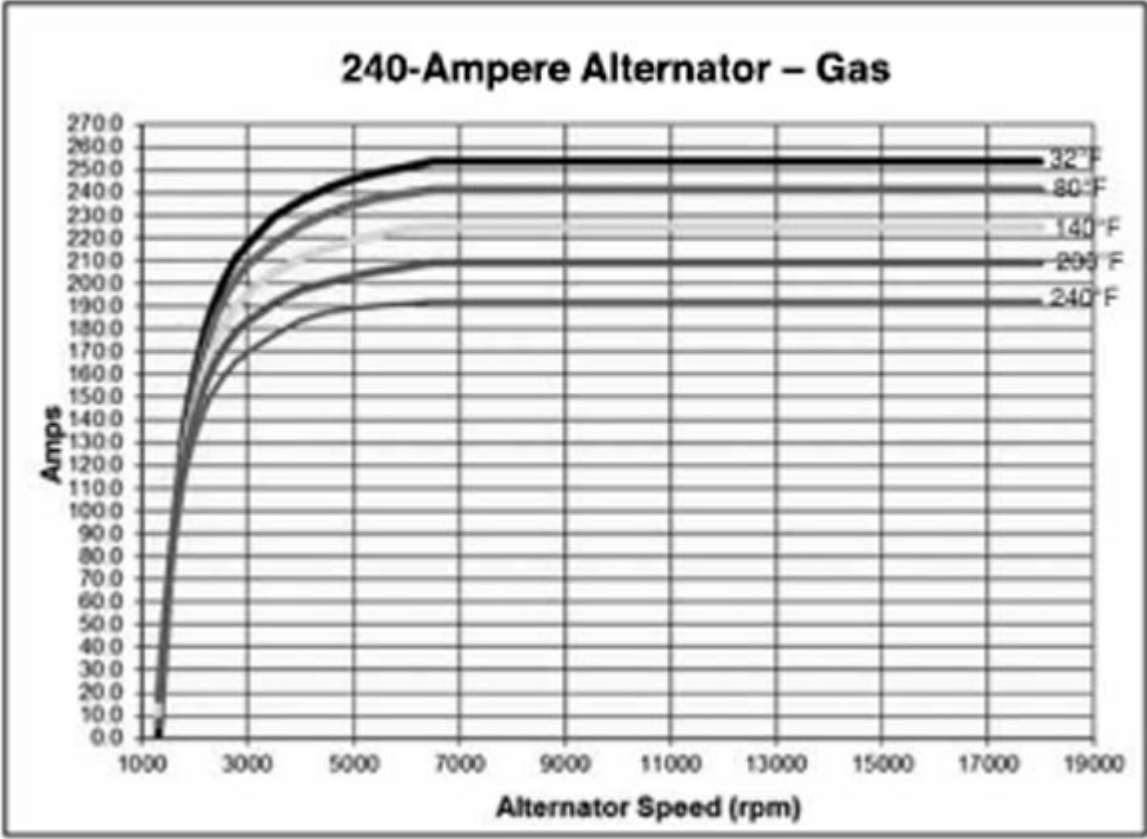


NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical > Alternator Performance Curves

240-Ampere Alternator

Engine	Pulley Ratio	Model Application
3.5L EcoBoost V6	2.67:1	LARIAT, King Ranch®, Platinum, Limited and Tremor
High-Output 3.5L EcoBoost V6	2.67:1	Raptor
5.0L PFDI V8	2.81:1	LARIAT, King Ranch and Platinum



NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical

Battery Applications

Ampere-Hour Rating	70	80
Cold-Cranking Amps at 0°F	760	800
2.7L EcoBoost V6	XL/XLT ⁽¹⁾	LARIAT ⁽¹⁾
3.5L EcoBoost V6	XL/XLT ⁽¹⁾	LARIAT/King Ranch®/Platinum/Limited/Tremor ⁽¹⁾
3.5L PowerBoost Full Hybrid V6	—	All ⁽¹⁾⁽²⁾
High-Output 3.5L EcoBoost V6	—	Raptor
5.2L Supercharged V8	—	Raptor R (802A)
Cold-Cranking Amps at 0°F	610	730
3.3L PFDI V6	XL/XLT	—
5.0L PFDI V8	XL/XLT	LARIAT/King Ranch/Platinum

(1) Absorbent Glass Mat (AGM) battery.

(2) 3.5L PowerBoost Full Hybrid V6 includes a 7.5AH auxiliary battery for transient load support during rolling engine crank events.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical

Cold Weather Recommendations

Minimum Temperature	Equipment	
	HD Battery	Engine Block Heater
0° F	Suggested	Not Needed
-10° F	Recommended	Suggested
-20° F	Recommended	Recommended
Below -20° F	Strongly Recommended	Strongly Recommended

DEFINITIONS

Suggested: Helpful, but not needed.

Recommended: Could improve reliability in less-than-ideal conditions.

Strongly Recommended: Will give definite improvement over the standard components.

HD Battery: Higher-capacity battery available. (Usage varies by model.)

Engine Block Heater: Available equipment for all engines. (Usage and heater capacity vary with engine requirements.)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical

Standard Lighting/Reflector Equipment

Light Reflector	Application
Headlamps (Halogen)	XL, XLT, Tremor
Headlamps (LED)	LARIAT, King Ranch, [®] Platinum, Limited, Raptor
Parking Lamps	All Series — Integral with turn signals
Front/Rear Turn Signals	All Series
Front Side Marker Lamps	All Series
Front Side Reflectors	All Series
Rear Side Reflectors	All Series
Rear Side Marker Lamps	All Series — integral with taillamps
License Plate Lamps	All Series
Two Combination Taillamps with Integral Stop, Turn Signal and Backup Lamps and Reflective Surface	All Series
Rear Reflectors	All Series
Front Daytime Running Lamps	All Vehicles Registered in Canada

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical

Light Specifications and Usage

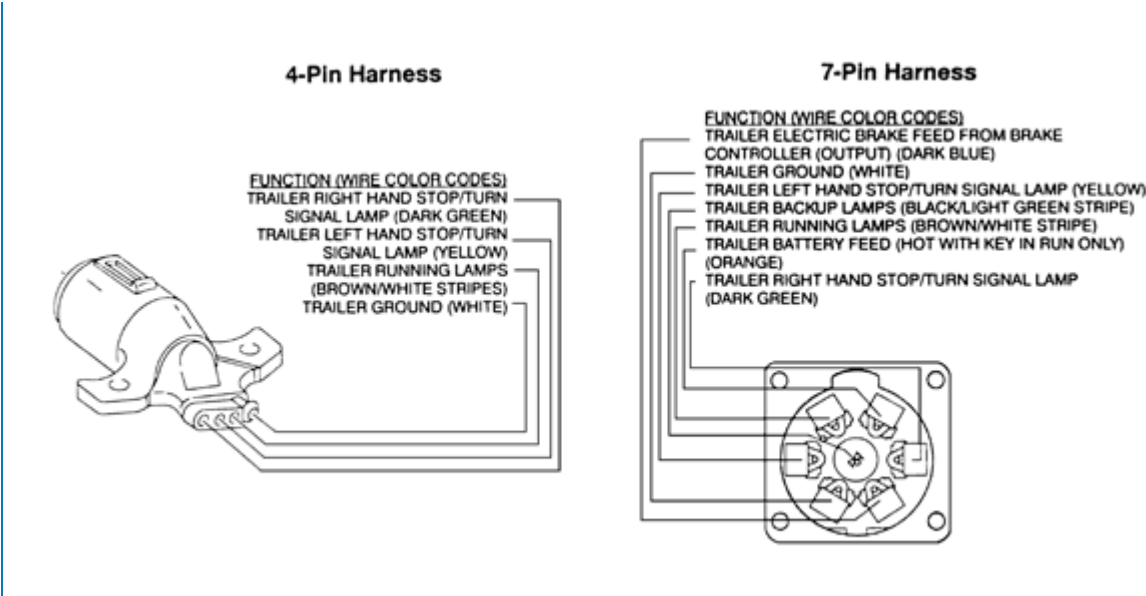
Lamp	Code	Description	Usage
Cab Marker — (5 lights) Amber	STD	Torpedo, Hella	All Model Series
Daytime Running Lamps	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in Canada
Headlamps	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in U.S. and Canada

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 > Specs > Electrical

Trailer Towing Wiring Harness

Circuit Number	Circuit Description	Color Code
RAT08	Ground	White
CAT17	Parking Lamps	Brown
CAT14	Trailer Battery Feed	Orange
CAT19	To Electric Brakes	Dark Blue
CAT09	RH Turn Signal and Stop Lamps	Dark Green
CAT06	LH Turn Signal and Stop Lamps	Yellow
CAT03/CAT16	Trailer Backup Lamps	Gray with Brown Stripe
CBP30	Front Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Blue Stripe
CBP40	Rear Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Green Stripe
CLS30	Brake Controller Running Lamp Feed/Park Lamp Feed	Violet with White Stripe
CCB08	Vehicle Stop Lamps	Violet with White Stripe
SBB18/SBB17	B+ to Electric Brake Controller	Yellow with Red Stripe



NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

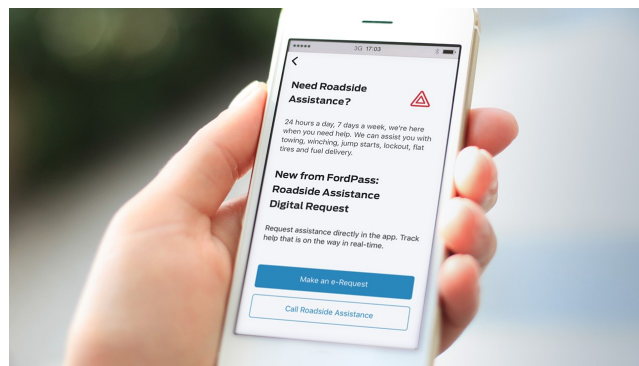
2023 F-150 > Specs

Warranties

24-HOUR ROADSIDE ASSISTANCE⁽¹⁾

- Owners can call the toll-free number (1-800-241-3673) 24 hours a day
- FordPass⁽²⁾ App key functionality
 - Tap the Service symbol on the bottom menu
 - Tap on 24/7 Assistance to make a request
 - Follow the prompts, which allow owners to identify the type of service they need
 - Owners can follow real-time progress of their request on the FordPass map
- Services available include flat tire change, towing to the nearest Ford dealership, fuel delivery, jump start and lockout assistance

- The FordPass App also offers a link to Accident Assistance under Vehicle Details/Vehicle Support
 - Accident Assistance includes information on what to do in an accident and about collision repairs
 - It also provides a collision shop locator that identifies the nearest Ford Certified Collision Center



POWERTRAIN LIMITED WARRANTY

- Powertrain Limited Warranty for Ford vehicles is 5 years or 60,000 miles, whichever comes first
- That's an additional 2 years/24,000 miles (whichever comes first) of coverage beyond the bumper-to-bumper coverage for components such as the engine, transmission and front- or rear-wheel-drive parts

NEW VEHICLE LIMITED WARRANTIES

- 3-year/36,000-mile (whichever comes first) bumper-to-bumper; no deductible
- 5-year/60,000-mile (whichever comes first) Powertrain Limited Warranty
- 5-year/unlimited mileage (whichever comes first) Corrosion Perforation (aluminum panels don't require perforation)
- 5-year/60,000-mile (whichever comes first) Safety Restraint Warranty

(1) Roadside Assistance is included for certain owners and available to everyone for a per-service fee. Ford reserves the right to change program details without obligations. Ford Roadside Assistance is a complimentary offering to all Ford owners for up to 5 years or 60,000 miles (from the date of sale), whichever occurs first.

(2) FordPass App, compatible with select smartphone platforms, is available via a download. Message and data rates may apply.

NOTE: See dealer for limited warranty details.

NOTE: See www.motorcraftservice.com for a link to a printable PDF of the Warranty Guide.

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