

## 2024 FORD F-150® RAPTOR™ TRUCK

# TECHNICAL SPECIFICATIONS



### BODY

Construction/materials	High-strength steel frame, aluminum cabin and bed
Body configuration	SuperCrew®
Final assembly location	Dearborn Truck Plant

### DRIVETRAIN

Layout	Longitudinally mounted front-engine 10-speed automatic transmission, 2-speed torque on-demand 4x4 with mechanical lock; electronic locking rear differential with 4.10 axle
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### ENGINE

	Raptor	Raptor R
Configuration	High-output 3.5-liter twin-turbocharged, intercooled 60-degree overhead-cam EcoBoost V6	High-output 5.2-liter supercharged, intercooled 90-degree overhead-cam V8
Block/head material	Aluminum block, aluminum heads	Cast aluminum block and head with plasma transfer wire arc cylinder liners
Displacement	3.5 liters (213 cubic inches)	5.2 liters (315 cubic inches)
Bore x stroke	3.64 in. x 3.41 in.	3.70 in. x 3.66 in.
Compression ratio	10.5:1	9.5:1
Valvetrain	DOHC, four valves per cylinder, twin independent variable camshaft timing	DOHC, four valves per cylinder, twin independent variable camshaft timing
Pistons material	Aluminum alloy	Forged aluminum
Ignition system	Distributor-less with coil-on-plug	Distributor-less with coil-on-plug
Recommended fuel	Premium unleaded	Premium unleaded
Oil capacity	6 quarts	11.5 quarts
Coolant capacity	13.0 liters	12.0 liters (engine), 3.1 liters (supercharger)
SAE horsepower*	450 hp @ 5,850 rpm	720 hp @ 6,650 rpm
SAE torque*	510 lb.-ft. @ 3,000 rpm	640 lb.-ft. @ 4,300 rpm
Build location	Cleveland, Ohio	Dearborn, Michigan

\*Horsepower and torque ratings based on premium fuel per SAE J1349® standard. Your results may vary.

### ELECTRICAL

Alternator	Dual alternator	Standard single 240A
Battery group, CCA	H7 AGM 80AH 800CCA	H7 AGM 80AH 800CCA

### TRANSFER CASE

	Raptor	Raptor R
Type	Hi-lock transfer case; two-speed automatic four-wheel-drive system with neutral towing capability	Hi-lock transfer case; two-speed automatic four-wheel-drive system with neutral towing capability
4-high drive ratio	1:1	1:1
4-low drive ratio	2.64:1	2.64:1

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## FINAL DRIVE

	Raptor	Raptor R
Final drive front/rear axle ratios	4.10:1	4.10:1

## TRANSFER CASE

Type	Hi-lock transfer case; two-speed automatic four-wheel-drive system with neutral towing capability	Hi-lock transfer case; two-speed automatic four-wheel-drive system with neutral towing capability
4-high drive ratio	1:1	1:1
4-low drive ratio	2.64:1	2.64:1

## TRANSMISSION

Configuration	10-speed SelectShift® Automatic	
Gear ratios	First	4.69
	Second	2.98
	Third	2.14
	Fourth	1.76
	Fifth	1.52
	Sixth	1.27
	Seventh	1
	Eighth	0.85
	Ninth	0.69
	10th	0.63
Reverse	4.86	
Cooling	Automatic Transmission Oil Cooler and warm up unit with thermostatic fin cooler	

## SUSPENSION

Front configuration	Independent double-wishbone with coil-over shock and cast aluminum lower control arm	
Front shock absorber type/diameter	High-output, gas-pressurized, electronically controlled continuously variable compression damping FOX Racing Shox™, 3.1-inch damper, 0.875-inch rod diameter (standard), 1.0-inch rod diameter with optional 37-inch tires (standard with Raptor R)	
Rear configuration	Five-link coil with Panhard rod	
Front travel	14.0-inch (standard), 13.0-inch with optional 37-inch tires (standard with Raptor R)	
Rear shock absorber type/diameter	High-output, gas-pressurized, electronically controlled continuously variable compression damping FOX Racing Shox™, 3.1-inch damper, 0.875-inch rod diameter	
Rear travel	15.0-inch (standard), 14.1-inch with optional 37-inch tires (standard with Raptor R)	

## STEERING

Type	Electric power-assisted	Electric power-assisted
Ratio	16.1:1	16.1:1
Turning circle (curb to curb)	35-in. tires – 48.0 ft. 37-in. tires – 50.0 ft.	37-in. tires – 50.0 ft.

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## BRAKES

<b>Front type</b>	Power anti-lock vented disc	Power anti-lock vented disc
<b>Booster type</b>	Electronically controlled brake boost	Electronically controlled brake boost
<b>Front rotor diameter/ thickness/material</b>	350 x 34 mm Nitro Tough iron	350 x 34 mm Nitro Tough iron
<b>Front caliper configuration</b>	2 x 51 mm sliding caliper	2 x 51 mm sliding caliper
<b>Front pad material</b>	FER9213	FER9213
<b>Front swept area</b>	51,547 mm <sup>2</sup>	51,547 mm <sup>2</sup>
<b>Rear type</b>	Power antilock vented disc	Power antilock vented disc
<b>Rear rotor diameter/ thickness/material</b>	336 x 20 mm Nitro Tough iron	336 x 20 mm Nitro Tough iron
<b>Rear caliper configuration</b>	1 x 54 mm sliding eiPB	1 x 54 mm sliding eiPB
<b>Rear pad material</b>	GA9105	GA9105
<b>Rear swept area</b>	40,998 mm <sup>2</sup>	40,998 mm <sup>2</sup>
<b>Parking/emergency brake</b>	25.5 kN electronic parking brake	25.5 kN electronic parking brake

## FUEL CAPACITY

<b>SuperCrew</b>	36 gallons (Raptor and Raptor R)
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## SAFETY/CONTROL SYSTEMS

<b>ABS/stability control</b>	Four-Wheel Anti-Lock Brakes, AdvanceTrac® with Roll Stability Control™ (RSC®)	Four-Wheel Anti-Lock Brakes, AdvanceTrac® with Roll Stability Control™ (RSC®)
<b>Airbags</b>	Front, driver and passenger Front, driver and passenger seat-mounted side Safety Canopy® side curtains Front, driver and passenger knee	Front, driver and passenger Front, driver and passenger seat-mounted side Safety Canopy® side curtains Front, driver and passenger knee
<b>Chassis safety</b>	Tire Pressure Monitoring System (TPMS), SOS Post-Crash Alert System™	Tire Pressure Monitoring System (TPMS), SOS Post-Crash Alert System™

## WHEELS AND TIRES

<b>Standard</b>	17 x 8.5-inch cast aluminum wheels LT315/70R17 BFGoodrich® All-Terrain T/A® KO2 Tires	17 x 8.5-inch forged aluminum beadlock-capable wheels, 37x12.5R17LT BFGoodrich All-Terrain T/A KO2 Tires
<b>Available</b>	17 x 8.5-inch aluminum beadlock-capable wheels, 37x12.5R17LT BFGoodrich All-Terrain T/A KO2 Tires	
<b>Spare (Under-bed mounted)</b>	Full-size matching spare wheel and tire	Full-size matching spare wheel and tire

## LIGHTING

<b>Headlamps</b>	Adaptive LED projector with automatic leveling, dynamic bending and daytime running lamp
<b>Taillamps</b>	LED
<b>Auxiliary</b>	Daytime running lamp, cargo lamp, integrated marker lights, tailgate LED, LED side-mirror spotlights, LED cargo box lights, Rigid™ LED fog lamps and off-road driving lamp package

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## EXTERIOR DIMENSIONS

(inches unless otherwise noted)

### SuperCrew with 35-inch tires

### SuperCrew with 37-inch tires/Raptor R

Wheelbase	145.4	145.4
Overall length	232.6	232.6
Overall width	96.0	96.0
Width w/o mirrors	86.6	87.0
Overall height	79.8	80.6
Track width, front	74.0	74.3
Track width, rear	73.6	73.9
Ground clearance	12.0	13.1
Approach angle	31.0 degrees	33.1 degrees
Departure angle	23.9 degrees	24.9 degrees
Breakover angle	22.7 degrees	24.4 degrees
Open tallgate to ground	37.0	37.8

## INTERIOR DIMENSIONS

(inches unless otherwise noted)

### Raptor

### Raptor R

Seating	Five	Five
Front headroom	40.8	40.8
Maximum front legroom	43.9	43.9
Front shoulder room	66.6	66.6
Front hip room	62.5	62.5
Rear headroom	40.4	40.4
Maximum rear legroom	43.6	43.6
Rear shoulder room	65.8	65.8
Rear hip room	62.6	62.6

## CAPACITIES

(inches unless otherwise noted)

Length at floor	67.1	67.1
Width at wheelhouse	50.6	50.6
Maximum width inside box	65.2	65.2
Rear opening width	60.3	60.3
Cargo volume	52.8 cu. ft.	52.8 cu. ft.
Maximum payload	1,400 lbs.	1,400 lbs.
Maximum conventional towing	8,200 lbs.	8,700 lbs.

## TECHNOLOGY

### Standard

Ford PowerUp over-the-air-updates, FordPass® Connect (with remote lock/unlock, vehicle status check, schedule remote start times, Trailer Theft Alert, Trailer Light Check and other truck features), 12-inch digital productivity screen, 12-inch touch screen, SYNC® 4, Intelligent Access with push-button start, SecuriCode™ keyless entry keypad, Remote Start System, SiriusXM® with 360L, 5G LTE with Wi-Fi® hotspot, Onboard 400W outlet, MyMode™, pre-wired overhead auxiliary switches with under-hood distribution box, Reverse Sensing System and Adaptive Cruise Control, 2.0-kilowatt Pro Power Onboard (Raptor only), connected built-in navigation, 360-degree camera with split-view display, 14-speaker B&O sound system Unleashed by Bang & Olufsen with HD Radio™ and rain-sensing wipers, Pro Trailer Hitch Assist

### Off-road

Terrain Management System™, Trail Control™, Trail 1 Pedal Drive, Trail Turn Assist

## FORD CO-PILOT360™ TECHNOLOGIES

### Standard

Auto Hold, auto on/off headlamps, auto high-beam headlamps, Forward Collision Warning and Dynamic Brake Support, Hill Start Assist, Pre-Collision Assist with Automatic Emergency Braking (with Pedestrian Detection), rearview camera with Dynamic Hitch Support, Blind Spot Information System with Cross-Traffic Alert, Trailer Coverage and Reverse Brake Assist, Active Drive Assist Prep Kit, Distance Alert/Distance Indication, Forward Sensing System, Pro Trailer Backup Assist and Trailer Reverse Guidance

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## WARRANTY

<b>Bumper-to-bumper</b>	Three years/36,000 miles	Three years/36,000 miles
<b>Powertrain</b>	Five years/60,000 miles	Five years/60,000 miles
<b>Aluminum body panels</b>	Five years/unlimited miles	Five years/unlimited miles
<b>Corrosion, sheetmetal (perforation only excluding aluminum)</b>	Five years/unlimited miles	Five years/unlimited miles
<b>Paint adhesion</b>	Five years/unlimited miles	Five years/unlimited miles
<b>Roadside assistance</b>	Five years/60,000 miles	Five years/60,000 miles

**FORD F-150<sup>®</sup> RAPTOR<sup>™</sup>**

