# 2024 FORD F-150® RAPTOR™ LINEUP PRELIMINARY TECHNICAL SPECIFICATIONS



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Construction/materials	High-strength steel frame, aluminum cabin and bed				
Body configuration	SuperCrew®				
Final assembly location	Dearborn Truck Plant	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			
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			
Fuel delivery	Port fuel injection with direct injection	Port fuel injection with twin high-flow fuel pumps			
Engine control system	Electronic	Ford powertrain control module			
Oil capacity	6 quarts	11.5 quarts 5W-50 full synthetic with filter			
Coolant capacity	13.0 liters	12.0 liters (engine), 3.1 liters (supercharger)			
SAE horsepower*	450 @ 5,850 rpm				
SAE torque*	510 lb.ft. @ 3,000 rpm				
Build location	Cleveland, Ohio	Dearborn, Michigan			
ELECTRICAL					
Alternator	Standard single 240A	Standard single 240A			
Battery group, CCA	H7 AGM 80AH 800CCA	H7 AGM 80AH 800CCA			
TRANSFER CASE					
Туре	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			



2.64:1

4-high drive ratio 4-low drive ratio

2.64:1

## FINAL DRIVE

	Raptor	Raptor R
Final drive front/rear axle ratios	4.10:1	4.10:1
Final drive front axle ratio (optional)	4.10:1	4.10:1

## **TRANSMISSION**

	10-speed SelectShift® Automatic			
Configuration	Electronically controlled hydraulic 10-speed automatic			
	First	4.69		
	Second	2.98		
	Third	2.14		
	Fourth	1.76		
	Fifth	1.52		
Gear ratios	Sixth	1.27		
Gearratios	Seventh	1		
	Eighth	0.85		
	Ninth	0.69		
	10th	0.63		
	Reverse	4.86		
	Cooling	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)
Rearconfiguration	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

	Raptor	Raptor R
Туре	Electric power-assisted	Electric power-assisted
Ratio	17.2:1	17.2:1
Turning circle (curb to curb)	35-in. tires – 48.0 ft.	37-in. tires – 50.0 ft.

# **BRAKES**

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

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FUEL CAPACITY	26 million (Donator and Donator D)	
SuperCrew	36 gallons (Raptor and Raptor R)	
SAFETY/CONTROL SYSTEMS		
	Raptor	Raptor R
ABS/stability control	Four-wheel antilock brakes, AdvanceTrac with Roll Stability Control	Four-Wheel Anti-Lock Brakes, AdvanceTrac® with Roll Stability Control™ (RSC®)
Airbags	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
Chassis safety	Tire Pressure Monitoring System (TPMS), SOS Post-Crash Alert System™	Tire Pressure Monitoring System (TPMS), SOS Post-Crash Alert System™
WHEELS AND TIRES		
Standard	17 x 8.5-inch cast aluminum wheels with bright machined face and Magnetic painted pockets, LT315/70R17 BFGoodrich® All-Terrain T/A® KO2 Tires	17 x 8.5-inch forged aluminum beadlock-capable wheels, Matte Black 10 painted wheel with Magnetic painted ring, available Code Orange ring, L37x12.50R17LT BFGoodrich All-Terrain T/A KO2 Tires
Available	17 x 8.5-inch unique pattern forged aluminum beadlock-capable wheels, Magnetic painted wheel and ring, 37x12.50R17LT BFGoodrich All-Terrain T/A KO2 Tires Load Range"C"-116S	
Spare (Under-bed mounted)	Full-size matching spare wheel and tire	Full-size matching spare wheel and tire
LIGHTING		
Headlamps	Standard LED quad-beam with daytime running lam leveling, dynamic bending and daytime running lam	p or optional adaptive LED projector with automatic p
Taillamps	LED	
Auxiliary	Daytime running lamp, cargo lamp, integrated mark cargo box lights, Rigid™ LED fog lamps and off-road c	er lights, tailgate LED, LED side-mirror spotlights, LED driving lamp package (optional)
EXTERIOR DIMENSIONS		
	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
Track width, rear Ground clearance	73.6 12.0	73.9 13.1
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Ground clearance	12.0	13.1
Ground clearance Approach angle	12.0 31.0 degrees	13.1 33.1 degrees



#### 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.

#### **TECHNOLOGY**

Standard

Ford PowerUp software-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, Trailer Coverage and Reverse Brake Assist, Distance Alert/Distance Indication, Forward Sensing System, Pro Trailer Backup Assist and Trailer Reverse Guidance

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

#### WARRANTY

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

