2021 FORD F-150 RAPTOR

TECHNICAL SPECIFICATIONS



Preproduction model shown. Available late summer.

BODY

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

DRIVETRAIN

Layout standard	Front engine 3.5L EcoBoost V6, 10R80 Transmission, 2-Speed Torque-On-Demand® 4x4 with Mechanical Lock, and Electronic-Locking Rear Differential with 4.10 rear-axle

ENGINE

	Hi-Output 3.5-liter EcoBoost V6
Configuration	Twin-turbocharged and intercooled 60 degree V6, overhead cams
Block/head material	Aluminum block, aluminum heads
Displacement	3.5 liters (213 cubic inches)
Bore x stroke	3.64 inches x 3.41 inches
Compression ratio	10.5:1
Valvetrain	Roller finger follower
Pistons material	Aluminum alloy
Ignition system	Coil on plug
Recommended fuel	Premium unleaded
Fuel delivery	Port fuel injection with direct injection
Engine control system	Electronic
Oil capacity	6 quarts
Coolant capacity	13.0 liters
SAE Horsepower	TBD
SAE Torque	TBD
Build location	Cleveland, OH

ELECTRICAL

Alternator	Standard: Single 240A
Battery group, CCA	H7 AGM 80AH 800CCA

TRANSFER CASE

4-high drive ratio	1:1
4-low drive ratio	2.64:1

FINAL DRIVE

Final drive rear axle ratio	4.10:1
Final drive front axle ratio	4.10:1
Final drive front axle ratio (optional)	4.10:1 w/TORSEN® Differential

TRANSMISSION

	10-Speed SelectShift® Automatic	
Configuration	Electronically controlled hydraulic 10 speed 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
	Tenth	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
Rear configuration	5-link coil with Panhard rod
Front suspension travel	14.0-inch (standard), 13.0-inch (w/optional 37-inch tires)
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 suspension travel	15.0-inch (standard), 14.1-inch (w/optional 37-inch tires)

STEERING

Type	Electric power-assisted
Ratio	17.2:1

BRAKES

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

FUEL CAPACITY

SuperCrew®	36 gallons

SAFETY/CONTROL SYSTEMS

ABS/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
Chassis safety	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, LT315/70 R17 BFGoodrich® All-Terrain T/A® KO2 Tires Load Range "C"- 113T
Optional	17 x 8.5 inch forged aluminum bead-lock capable wheels - Matte Black 10 painted wheel with Magnetic painted ring, LT315/70 R17 BFGoodrich® All-Terrain T/A® KO2 Tires Load Range "C"- 113T 17 x 8.5 inch unique pattern forged aluminum bead-lock capable wheels - Magnetic painted wheel and ring, 37x12.50R17LT BFGoodrich® All-Terrain T/A® KO2 Tires Load Range "C"-116S
Spare	Full-size matching spare wheel and tire

LIGHTING

Headlamps	Standard LED Quad Beam Headlamp with Daytime Running Lamp, or optional Adaptive LED Projector with Automatic Leveling and Dynamic Bending and Daytime Running Lamp
Taillamps	LED taillamps
Aux	Daytime running lamps, cargo lamp, integrated marker lights, tailgate LED, LED side-mirror spotlights, LED cargo box lights, Rigid™ Brand LED fog lamps & off-road driving lamp package (optional)

EXTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)

	SuperCrew® with 35-inch tires	SuperCrew® with 37-inch tires
Wheelbase	145.4	145.4
Overall length	232.6	232.6
Overall width	96.0	96.0
Width w/o mirrors	86.6	86.6
Overall height	79.8	80.7
Track width, front	74.0	74.3
Track width, rear	73.6	73.9
Ground clearance	12.0	13.1
Approach angle	31.0°	33.1°
Departure angle	23.9°	24.9°
Breakover angle	22.7°	24.4°
Open tailgate to ground	37.0	37.8

INTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)

	SuperCrew®
Seating	Five
Front headroom	40.8
Maximum front legroom	43.9
Front shoulder room	66.7
Front hip room	62.5
Rear headroom	40.4
Maximum rear legroom	43.6
Rear shoulder room	66.0
Rear hip room	62.6

CAPACITIES (INCHES UNLESS OTHERWISE NOTED)

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

TECHNOLOGY

Standard	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 touchscreen, SYNC® 4, Intelligent Access with push-button start, SecuriCode™ keyless entry keypad, Remote Start System, SiriusXM® with 360L, 4G LTE with WiFi® hotspot, MyKey®, Onboard 400W Outlet, Terrain Management System™, Trail Control™, Trail 1-Pedal Drive, Reverse Sensing System and Adaptive Cruise Control
Available	2.0kW Pro Power Onboard, Connected Built-In Navigation, 360-Degree Camera with Split-View Display, 18-speaker B&O Sound System Unleashed by Bang & Olufsen with HD Radio™ and rain sensing wipers

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), Rear View Camera with Dynamic Hitch Support, Blind Spot Information System with Cross-Traffic Alert, Trailer Coverage and Reverse Brake Assist
Available	Active Drive Assist Prep Kit, Distance Alert/Distance Indication, Forward Sensing Systems, Pro Trailer Backup Assist and Trailer Reverse Guidance

WARRANTY

Bumper-to-bumper	3 years/36,000 miles
Powertrain	5 years/60,000 miles
Aluminum body panels	5 years/unlimited miles
Corrosion - sheetmetal (Perforation only excluding aluminum)	5 years/unlimited miles
Paint adhesion	5 years/unlimited miles
Roadside assistance	5 years/60,000 miles

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