

2024 FORD F-150 PRELIMINARY TECHNICAL SPECIFICATIONS



BODY

Construction/materials	Fully boxed, high-strength steel frame. High-strength, military-grade, aluminum alloy body
Body style	Body on frame, Regular Cab, SuperCab, SuperCrew®
Trim levels	XL, STX, XLT, LARIAT, King Ranch®, Platinum, Tremor*
Final assembly location	Dearborn Truck Plant, Kansas City Assembly

ENGINES

	2.7-liter EcoBoost® V6	5.0-liter Ti-VCT V8	3.5-liter EcoBoost®	3.5-liter PowerBoost™ Full Hybrid V6
Configuration	Twin-turbocharged and intercooled 60-degree V6, overhead cams	Naturally-aspirated 90-degree V8, overhead cams	Twin-turbocharged and intercooled 60-degree V6, overhead cams	Twin-turbocharged and intercooled 60-degree V6, overhead cams
Block/Head material	Compacted graphite iron block, aluminum heads	Aluminum block, aluminum heads	Aluminum block, aluminum heads	Aluminum block, aluminum heads
Displacement	2.7 liters (2,700 cubic centimeters, 165.0 cubic inches)	5.0 liters (5,038 cubic centimeters, 307.0 cubic inches)	3.5 liters (3,497 cubic centimeters, 213.4 cubic inches)	3.5 liters (3,497 cubic centimeters, 213.4 cubic inches)
Bore x stroke	3.267 inches x 3.267 inches	3.66 inches x 3.65 inches	3.64 inches x 3.41 inches	3.64 inches x 3.41 inches
Compression ratio	10:1	12:1	10.5:1	10.5:1
Valvetrain	Roller finger follower	Roller finger follower	Roller finger follower	Roller finger follower
Ignition system	Coil on plug	Coil on plug	Coil on plug	Coil on plug
Recommended fuel	Regular unleaded (minimum 87 unleaded octane)	Regular unleaded or E85 (minimum 87 unleaded octane)	Regular unleaded (minimum 87 unleaded octane)	Regular unleaded (minimum 87 unleaded octane)
Fuel delivery	Port fuel injection and direct injection	Port fuel delivery and direct injection	Port fuel injection with direct injection	Port fuel injection with direct injection
Engine control system	Electronic	Electronic	Electronic	Electronic
Oil service fill volume/grade	6 quarts with Filter (5W-30 SAE GF6)	7.75 quarts (5W-30 SAE GF6)	6 quarts with Filter (5W-30 SAE GF6)	6 quarts with Filter (5W-30 SAE GF6)
Coolant capacity	14.3 liters	12.5 liters	13.5 liters	14.5 liters high temp loop, 6.8 liters low temp loop
Auto Start/Stop Technology	Standard	Standard	Standard	—

DRIVETRAIN

Layout standard	Front engine, rear wheel drive
Layout optional	Front engine, electronically-controlled 4x4 with open differential rear axle Front engine, electronically-controlled 4x4 with electronic locking rear differential Front engine full hybrid, rear wheel drive Front engine full hybrid, electronically-controlled 4x4 with electronic locking rear differential Front engine, electronically-controlled 4x4 with electronic locking rear differential, Torsen front differential (optional on Tremor*)
Transfer Case (4x4 models)	Electronic Shift on the Fly (XL, XLT, Lariat with Snow Plow) with Flat Tow Mode 2-Speed Torque on Demand (Lariat+) with Flat Tow Mode

SUSPENSION

Front configuration	Independent double-wishbone with coil-over shock and stamped lower control arm
Front shock absorber type	Standard - Heavy-duty gas-pressurized Tremor - Monotube
Rear configuration	Leaf spring/solid axle
Rear shock absorber type	Standard - Heavy-duty gas-pressurized Tremor - Twin tube

*

TRANSMISSIONS

Configuration		10-Speed SelectShift® Automatic Electronically controlled hydraulic 10-speed automatic	10-Speed Modular Hybrid Transmission Electronically controlled hydraulic 10-speed automatic
Gear Ratios	First	4.696	4.696
	Second	2.985	2.985
	Third	2.146	2.146
	Fourth	1.769	1.769
	Fifth	1.520	1.520
	Sixth	1.275	1.275
	Seventh	1.000	1.000
	Eighth	0.854	0.854
	Ninth	0.689	0.689
	Tenth	0.636	0.636
	Reverse	4.866	4.866

STEERING

Electronic Power-Assisted		
	Wheelbase (inches)	Diameter (feet)
Turning circle (curb-to-curb)	122.8	41.2
	141.5	46.4
	145.4	47.8
	157.2	51.1
	164.1	52.5

BRAKES

	Standard	Heavy-Duty	Tow/Haul Package
Booster type	Electronically controlled brake boost	Electronically controlled brake boost	Electronically controlled brake boost
Front type	Power anti-lock vented disc	Power anti-lock vented disc	Power anti-lock vented disc
Front rotor/drum diameter/thickness/material	Nitro Tough Iron, 350 mm x 34 mm	Nitro Tough Iron, 350 mm x 34 mm	Nitro Tough Iron, 350 mm x 34 mm
Front caliper configuration	2 x 51 mm sliding caliper	2 x 51 mm sliding caliper	2 x 51 mm sliding caliper
Front pad material	FER9213	FER9213	FER9213
Front swept area	51547 mm ²	51547 mm ²	51547 mm ²
Rear type	Power anti-lock vented disc	Power anti-lock vented disc	Power anti-lock vented disc
Rear rotor/drum diameter	Nitro Tough Iron, 336 x 20 mm	Nitro Tough Iron, 336 x 20 mm	Nitro Tough Iron, 350 x 24 mm
Rear caliper configuration	1 x 54 mm sliding eIPB	1 x 54 mm sliding eIPB	1 x 54 mm sliding eIPB
Rear pad material	GA9105	GA9105	GA9105
Rear swept area	40998 mm ²	40998 mm ²	42997 mm ²
Parking/Emergency Brake	18.5 kN electronic parking brake	25.5 kN electronic parking brake	25.5 kN electronic parking brake

FUEL CAPACITY

Engine	Fuel tank capacity, gallons (dependent on cab and box configuration)
2.7-liter EcoBoost	36 gallons*
3.5-liter EcoBoost	36 gallons*
5.0-liter V8	36 gallons*
3.5-liter PowerBoost™	30.6 gallons

*Not available with 122" WB.

STANDARD SAFETY

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
Front, Driver and Passenger knee
Safety Canopy® side curtains

Chassis safety Tire Pressure Monitoring System (TPMS), SOS Post-Crash Alert System™

TECHNOLOGY

Standard Ford Power-Up 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 LCD capacitive touchscreen and 12-inch cluster screen, Connected Built-In Navigation (1-year trial), selectable drive modes, SYNC®4, 5G LTE with Wi-Fi® hotspot, wireless phone connection, Pre-Collision Assist® with Automatic Emergency Braking (AEB), Blind Spot Information System (BLIS®), Cross Traffic Alert, Lane-Keeping System, Rear View Camera, Auto high Beams, Reverse Sensing System, Reverse Brake Assist, Post-Collision Braking, Autolamp – Auto On/Off Headlamps

Available 2.0kW Pro Power Onboard, 2.4kW Pro Power Onboard, 7.2kW Pro Power Onboard, 360-Degree Camera with Split-View Display, Intelligent Access with Push-Button Start, 8-speaker B&O Sound System by Bang & Olufsen with HD Radio™, 14-speaker B&O Sound System Unleashed by Bang & Olufsen with HD Radio™, Sirius XM 360L, power-deployable running boards, Remote Start System, SecuriCode™ keyless entry keypad, rain sensing wipers, Fleet Telematics (fleet only), BlueCruise Equipped, Head-Up Display, Stolen Vehicle Services, Ford Pro Telematics and Services, Pro Trailer Backup Assist, Pro Trailer Hitch Assist, Onboard Scales with Smart Hitch; Tremor only: Trail Control with One Pedal Drive, Trail Control, Trail Turn Assist

LIGHTING

Headlamps Standard Halogen Quad Beam Headlamp. Optional LED Quad Beam Headlamp with Daytime Running Lamp, or optional Adaptive LED Projector with Automatic Leveling and Dynamic Bending and Daytime Running Lamp

Taillamps Standard Halogen Taillamps, LED Taillamps optional

Aux Daytime Running Lamps, Cargo Lamp, Tailgate LED (optional), LED Side-Mirror Spotlights (optional), LED cargo box lights (optional), Halogen or LED fog lamps (optional)

EXTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)

	5.5-ft. Styleside		6.5-ft. Styleside		8.0-ft. Styleside	
REGULAR CAB	4x2	4x4	4x2	4x4	4x2	4x4
Wheelbase	NA	NA	122.8	122.8	141.5	141.5
Overall length	NA	NA	209.1	209.1	227.7	227.7
Cab height	NA	NA	75.6	77	75.2	77
Width - Excluding mirrors	NA	NA	79.9	79.9	79.9	79.9
Width - Including standard mirrors	NA	NA	95.7	95.7	95.7	95.7
Width - Standard Mirrors folded	NA	NA	83.6	83.6	83.6	83.6
Width - Including trailer tow mirrors	NA	NA	105.9	105.9	105.9	105.9
Width - Trailer tow mirrors folded	NA	NA	85.3	85.3	85.3	85.3
Track width - Front	NA	NA	67.9	67.9	67.9	67.9
Track width - Rear	NA	NA	68.3	68.3	68.3	68.3
Overhang - Front	NA	NA	37.6	37.6	37.6	37.6
Overhang - Rear	NA	NA	48.6	48.6	48.6	48.6
Angle of approach	NA	NA	21.7°	23.9°	21°	24.6°
Angle of departure	NA	NA	23.9°	26.2	23.9°	26.1°
Ramp breakover angle	NA	NA	20.8°	23.5°	18.3°	21°
Ground clearance	NA	NA	8.7	9.4	8.3	9.4
Open tailgate to ground	NA	NA	33.9	35.7	33.9	35.6
Front bumper to back of cab	NA	NA	121.4	121.4	121.4	121.4

EXTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)

SUPERCAB	5.5-ft. Styleside		6.5-ft. Styleside	
	4x2	4x4	4x2	4x4
Wheelbase	NA	NA	145.4	145.4
Overall length	NA	NA	231.7	231.7
Cab height	NA	NA	75.5	77.2
Width - Excluding mirrors	NA	NA	79.9	79.9
Width - Including standard mirrors	NA	NA	95.7	95.7
Width - Standard Mirrors folded	NA	NA	83.6	83.6
Width - Including trailer tow mirrors	NA	NA	105.9	105.9
Width - Trailer tow mirrors folded	NA	NA	85.3	85.3
Track width - Front	NA	NA	67.9	67.9
Track width - Rear	NA	NA	68.3	68.3
Overhang - Front	NA	NA	37.6	37.6
Overhang - Rear	NA	NA	48.6	48.6
Angle of approach	NA	NA	21.5°	24.6°
Angle of departure	NA	NA	23.2°	25.4°
Ramp breakover angle	NA	NA	17.6°	20.2°
Ground clearance	NA	NA	8.4	9.4
Open tailgate to ground	NA	NA	33.1	35.0
Front bumper to back of cab	NA	NA	144.0	144.0

SUPERCREW®	5.5-ft. Styleside		Tremor	6.5-ft. Styleside		8.0-ft. Styleside	
	4x2	4x4	4x4	4x2	4x4	4x2	4x4
Wheelbase	145.4	145.4	145.4	157.2	157.2	NA	NA
Overall length	231.7	231.7	231.7	243.5	243.5	NA	NA
Cab height	75.6	77.2	79.3	75.8	77.6	NA	NA
Width - Excluding mirrors	79.9	79.9	79.9	79.9	79.9	NA	NA
Width - Including standard mirrors	95.7	95.7	95.7	95.7	95.7	NA	NA
Width - Standard Mirrors folded	83.6	83.6	83.8	83.6	83.6	NA	NA
Width - Including trailer tow mirrors	105.9	105.9	NA	105.9	105.9	NA	NA
Width - Trailer tow mirrors folded	85.3	85.3	NA	85.3	85.3	NA	NA
Track width - Front	67.9	67.9	68.5	67.9	67.9	NA	NA
Track width - Rear	68.3	68.3	69.1	68.3	68.3	NA	NA
Overhang - Front	37.6	37.6	37.6	37.6	37.6	NA	NA
Overhang - Rear	48.6	48.6	48.5	48.6	48.6	NA	NA
Angle of approach	21.8°	24.3°	27.6°	21.0°	24.0°	NA	NA
Angle of departure	22.9°	25.3°	24.3°	23.9°	26.3°	NA	NA
Ramp breakover angle	17.6°	20.0°	21.2°	16.6°	19.0°	NA	NA
Ground clearance	8.5	9.4	9.4	8.2	8.8	NA	NA
Open tailgate to ground	32.9	34.9	37.4	33.8	35.8	NA	NA
Front bumper to back of cab	155.8	155.8	155.8	155.8	155.8	NA	NA

INTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)

	Regular Cab	SuperCab	SuperCrew
Seating	3	5, 6	5, 6
Front headroom	40.8	40.8	40.8
Front leg room SAE ("max" is currently listed)	43.9	43.9	43.9
Front shoulder room	66.7	66.7	66.7
Front hip room	62.5	62.5	62.5
Rear head room	N/A	40.3	40.4
Rear leg room SAE ("max" is currently listed)	N/A	33.5	43.6
Rear shoulder room	N/A	66.1	66.0
Rear hip room	N/A	62.6	62.6

CARGO CAPACITIES (INCHES UNLESS OTHERWISE NOTED)

	5.5-ft. Styleside	6.5-ft. Styleside	8.0-ft. Styleside
Inside Length (at floor)	67.1	78.9	97.6
Width between wheelhouses	50.6	50.6	50.6
Inside Height	21.4	21.4	21.4
Cargo box volume	52.8 cu. ft.	62.3 cu. ft.	77.4 cu. ft.

WHEELS

Standard	17-inch silver-painted steel wheels
Optional	17-inch silver-painted aluminum alloy wheels
	18-inch black-plated aluminum alloy wheels
	18-inch gloss black aluminum alloy wheels
	18-inch aluminum alloy chrome-like PVD wheels
	20-inch aluminum alloy chrome-like PVD wheels
	20-inch gloss black wheels
	20-inch painted gloss ebony black wheels
	20-inch gloss black painted aluminum alloy wheels
	20-inch dark gray with machined aluminum alloy wheels
	22-inch gloss black wheels without inserts
	22-inch chrome wheels without inserts

TIRES

Standard	245/70R17 black side wall (BSW) all-season tires
Optional	245/70R17 outlined white letters (OWL) all-terrain tires
	265/70R17C BSW all-terrain tires
	265/60R18 BSW all-season tires
	275/65R18 OWL all-terrain tires
	265/70R18C OWL all-terrain tires
	275/60R20 BSW all-season tires
	275/60R20 OWL all-terrain tires
	275/60R20 BSW all-terrain tires
	275/50R22 BSW all-season tires
	275/70R18 BSW all-terrain tires, Tremor*

WARRANTY

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