

# 2024 Ford F-150

# 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<br>EcoBoost® V6                                     | 5.0-liter<br>Ti-VCT V8                                   | 3.5-liter<br>EcoBoost®                                        | 3.5-liter<br>PowerBoost™<br>Full Hybrid V6                    |
|-------------------------------|---------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| HP @ rpm                      | 325 @ 5,000                                                   | 400 @ 6,000                                              | 400 @ 6,000                                                   | 430 @ 6,000                                                   |
| Torque @ rpm                  | 400 lb.-ft @ 3,000                                            | 410 lb.-ft @ 4,250                                       | 500 lb.-ft @ 3,100                                            | 570 lb.-ft @ 3,000                                            |
| Avail. Max Towing (lbs.)      | 8,400                                                         | 12,000                                                   | 13,500                                                        | 11,200                                                        |
| Avail. Max Payload (lbs.)     | 1,775                                                         | 2,230                                                    | 2,445                                                         | 1,755                                                         |
| 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<br>0.1875 in                      |
|                            | Front engine full hybrid, rear wheel drive                                                                     |
|                            | Front engine full hybrid, electronically-controlled 4x4 with electronic locking rear differential<br>0.1875 in |
| 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<br>Tremor - Monotube                     |
| Rear configuration        | Leaf spring/solid axle                                                         |
| Rear shock absorber type  | Standard - Heavy-duty gas-pressurized<br>Tremor - Twin tube                    |

**TRANSMISSIONS**

| Configuration |         | 10-Speed SelectShift® Automatic                        | 10-Speed Modular Hybrid Transmission                   |
|---------------|---------|--------------------------------------------------------|--------------------------------------------------------|
|               |         | Electronically controlled hydraulic 10-speed automatic | 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            |

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 <sup>2</sup>                 | 51547 mm <sup>2</sup>                 | 51547 mm <sup>2</sup>                 |
| 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 <sup>2</sup>                 | 40998 mm <sup>2</sup>                 | 42997 mm <sup>2</sup>                 |
| 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                                                         |

STANDARD SAFETY

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

\*Not available with 122" WB.

# 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 Assist¹ |

# 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)

| REGULAR CAB                           | 5.5-ft. Styleside |     | 6.5-ft. Styleside |       | 8.0-ft. Styleside |       |
|---------------------------------------|-------------------|-----|-------------------|-------|-------------------|-------|
|                                       | 4x2               | 4x4 | 4x2               | 4x4   | 4x2               | 4x4   |
| Wheelbase                             | NA                | NA  | 122.8             | 122.8 | 141.5             | 141.5 |
| Overall length                        | NA                | NA  | 209.4             | 209.4 | 228.1             | 228.1 |
| Cab height                            | NA                | NA  | 75.4              | 76.9  | 76.7              | 76.7  |
| 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  | 37.4              | 37.4  | 37.4              | 37.4  |
| Overhang - Rear                       | NA                | NA  | 49.2              | 49.2  | 49.2              | 49.2  |
| Angle of approach                     | NA                | NA  | 20.7°             | 23.7° | 20.8°             | 23.9° |
| Angle of departure                    | NA                | NA  | 19.9°             | 22°   | 19.4°             | 22°   |
| Ramp breakover angle                  | NA                | NA  | 20.1°             | 23.3° | 17.9°             | 20.7° |
| Ground clearance                      | NA                | NA  | 8.3               | 9.8   | 8.2               | 9.8   |
| Open tailgate to ground               | NA                | NA  | 33.9              | 35.7  | 33.9              | 35.6  |
| Front bumper to back of cab           | NA                | NA  | 121.2             | 121.2 | 121.2             | 121.2 |

**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  | 232               | 232   |
| Cab height                            | NA                | NA  | 75.3              | 77.1  |
| 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  | 37.4              | 37.4  |
| Overhang - Rear                       | NA                | NA  | 49.2              | 49.2  |
| Angle of approach                     | NA                | NA  | 21.2°             | 24.6° |
| Angle of departure                    | NA                | NA  | 18.8°             | 21°   |
| Ramp breakover angle                  | NA                | NA  | 17.3°             | 20°   |
| Ground clearance                      | NA                | NA  | 8.2               | 9.8   |
| Open tailgate to ground               | NA                | NA  | 33.1              | 35.0  |
| Front bumper to back of cab           | NA                | NA  | 143.8             | 143.8 |

**EXTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED)**

| 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                        | 232.0             | 232.0 | 231.7  | 243.8             | 243.9 | NA                | NA  |
| Cab height                            | 75.4              | 77.1  | 79.3   | 75.8              | 77.5  | 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                      | 37.4              | 37.4  | 37.6   | 37.4              | 37.4  | NA                | NA  |

**EXTERIOR DIMENSIONS (INCHES UNLESS OTHERWISE NOTED) CONTINUED**

|                             | 5.5-ft. Styleside |       | Tremor | 6.5-ft. Styleside |       | 8.0-ft. Styleside |     |
|-----------------------------|-------------------|-------|--------|-------------------|-------|-------------------|-----|
| SUPERCREW®                  | 4x2               | 4x4   | 4x4    | 4x2               | 4x4   | 4x2               | 4x4 |
| Overhang - Rear             | 49.2              | 49.2  | 48.5   | 49.0              | 49.2  | NA                | NA  |
| Angle of approach           | 21°               | 24.2° | 27.6°  | 0°                | 23.9° | NA                | NA  |
| Angle of departure          | 18.6°             | 21°   | 24.3°  | 0°                | 22°   | NA                | NA  |
| Ramp breakover angle        | 17.1°             | 19.8° | 21.2°  | 0°                | 18.8° | NA                | NA  |
| Ground clearance            | 8.2               | 9.8   | 9.4    | 0                 | 9.7   | NA                | NA  |
| Open tailgate to ground     | 32.9              | 34.9  | 37.4   | 33.8              | 35.8  | NA                | NA  |
| Front bumper to back of cab | 155.6             | 155.6 | 155.8  | 155.6             | 155.6 | 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    |