2021-2024 Ford F-150 - Spark Plug Replacement

2021-2024 Ford F-150 | Advanced | 1-3 hours | $115 DIY

TOOLS

Metric/SAE socket set with extensions and swivel Spark-plug socket with rubber insert or magnet Torque wrench covering the plug range Compressed air or a soft brush, dielectric grease, gloves, and eye protection

PARTS

Correct spark plug set for the gasoline/ICE engine in 2021-2024 Ford F-150 Hybrid; verify engine, heat range, gap, and VIN fitment $115.00

Coil-boot seals or ignition coils only if inspection finds damage $35.00

STEPS

1. **Confirm engine and plug fitment - Plugs differ by engine: 2.7L/3.5L EcoBoost takes** Motorcraft SP-594 (CYFS-12Y-PT), 0.030 in, pre-gapped - buy 6, never adjust. 5.0L V8 takes Motorcraft CYFS-12F-1X platinum - buy 8. Scan for P0300 misfires first.
2. **Cool and expose the plugs - Cool fully; disconnect the negative cable. Remove the engine** cover. Rear EcoBoost coils hug the cowl - swivel sockets help. Late-build trucks use a revised washer-seat plug, so match what comes out.
3. **Remove coils and clean wells - Unplug each coil, remove the hold-down bolt (89 in-lb on** reinstall), lift the coil straight up. Blow/brush every well clean first - grit in deep EcoBoost wells scores cylinders. One cylinder at a time.
4. **Install the new plugs - Read old plug deposits for boost-leak or oil clues. Start each** new Motorcraft plug by hand - never an impact. Verify the 0.030 in EcoBoost gap without prying the finewire tips. Dab dielectric grease inside each coil boot.
5. **Reconnect and verify - Reinstall coils, torque hold-downs, click every connector home.** Refit cover and battery cable. Start, idle, then drive under light boost - smooth pull expected. Any stumble = loose coil connector, not the new plugs.

TORQUE

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