2015-2020 Ford F-150 - Serpentine Belt

2015-2020 Ford F-150 | Moderate | 1-2 hours | $45 DIY

TOOLS

3/8-inch-drive breaker bar or low-profile long ratchet with swivel head (tensioner) Jack and jack stands Socket set (splash shield fasteners, lug nuts) Stretch-belt install tool (only if replacing the A/C stretch belt) Torque wrench (lug nuts) Phone camera (routing photos) Headlamp Gloves

PARTS

Serpentine belt (matching routing) $45.00

STEPS

1. **Inspect the belt and identify your engine’s layout - Engine OFF: inspect the belt for** cracked or missing ribs, fraying edges, glazing, or a belt off-center. Confirm your engine on the emissions label before ordering parts.
2. **Photograph the routing and find the decal - Photograph the belt around every pulley from** several angles - on EcoBoost trucks the lower pulleys are hard to see, so photos are non-negotiable. Decal missing or unreadable? Pull the routing from a service manual for your year and engin...
3. **Gain access - usually from below and the wheel well - The 13th-gen F-150’s engine bay is** tight at the front drive. The practical approach on the 3.5L EcoBoost is from underneath: safely raise and support the front of the truck, remove the lower aero/splash shield fasteners, and many owners...
4. **Rotate the tensioner counterclockwise and free the belt - Find the automatic tensioner on** the engine front - it has a 3/8-inch square drive hole in the arm. Feed the belt off the remaining pulleys.
5. **Inspect all pulleys while the belt is off - Check the tensioner arm’s spring action; Ford** tensioners have wear-indicator marks, and a pointer outside the normal range means a new assembly. Spin the alternator and A/C compressor pulleys - a seized compressor is a common reason EcoB...
6. **Verify the belt is centered and seated - Verify the belt is centered on every pulley with** all ribs seated - then check twice more, because the lower crank pulley is nearly blind from above.
7. **Reassemble, start, and verify under load - Reinstall the splash shield, fender liner, and** wheel; torque the lug nuts to spec and reconnect the battery. Drive 10 minutes with the A/C on max, headlights and blower on to fully load the belt, then confirm it’s still centered and quiet.

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