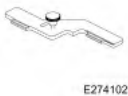


Removal and Installation

Camshafts

Special Tool(s) / General Equipment

 E274102	303-1685 Alignment Tool, Camshaft
 PZ21210	303-507 Timing Peg, Crankshaft TDC TKIT-2001N-FLM TKIT-2001N-ROW
Feeler Gauge	

Removal

NOTE: During engine repair procedures, cleanliness is extremely important. Any foreign material (including any material created while cleaning gasket surfaces) that enters the oil passages, coolant passages or the oil pan can cause engine failure.

NOTE: Do not rotate the camshafts unless instructed to in this procedure. Rotating the camshafts or crankshaft with timing components loosened or removed can cause serious damage to the valves and pistons.

1.

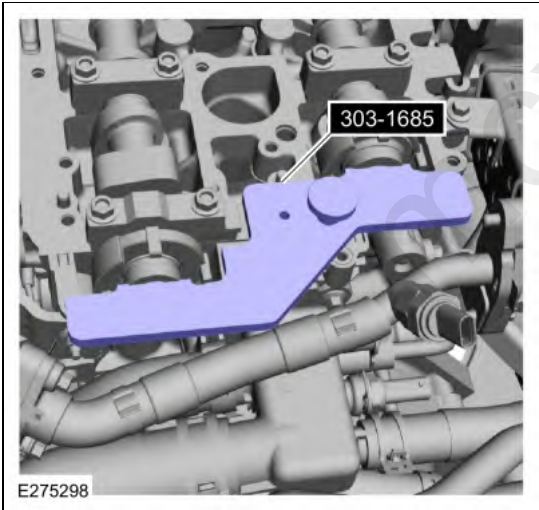
With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
2.

Release the fuel system pressure.
Refer to: Fuel System Pressure Release (310-00A Fuel System - General Information - 2.0L EcoBoost (184kW/250PS) â€“ MI4, General Procedures).
3.

If the camshafts are being removed for servicing other components, remove the timing chain.
Refer to: Timing Chain (303-01A Engine - 2.0L EcoBoost (184kW/250PS) â€“ MI4, Removal and Installation).

If the camshafts are being replaced, remove the VCT units.
Refer to: Variable Camshaft Timing (VCT) Unit (303-01A Engine - 2.0L EcoBoost (184kW/250PS) â€“ MI4, Removal and Installation).
4.

Remove Special Service Tool: 303-1685 Alignment Tool, Camshaft.



5.

Remove the bolts and the VCT oil control solenoids.