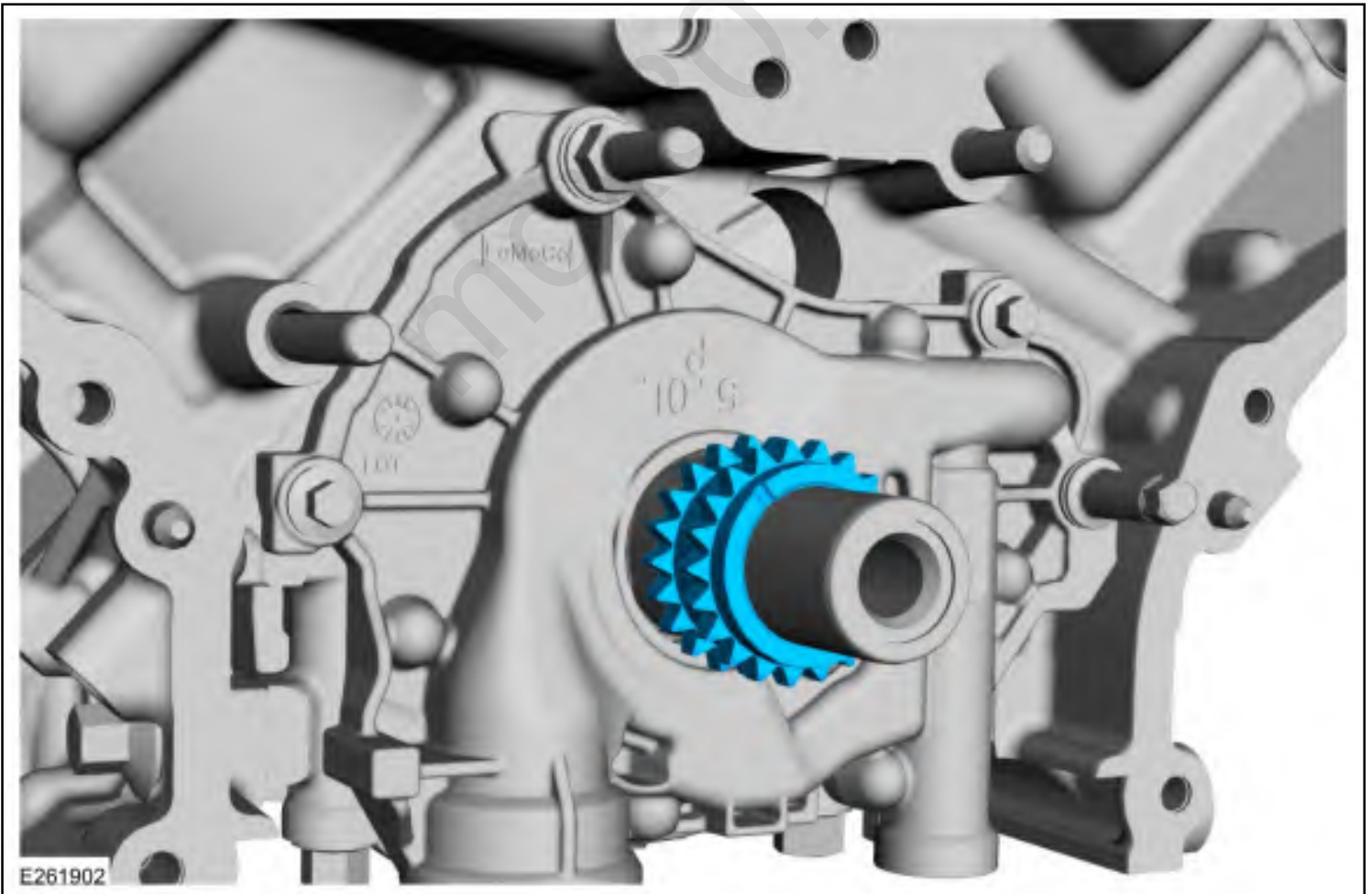


Oil Pump

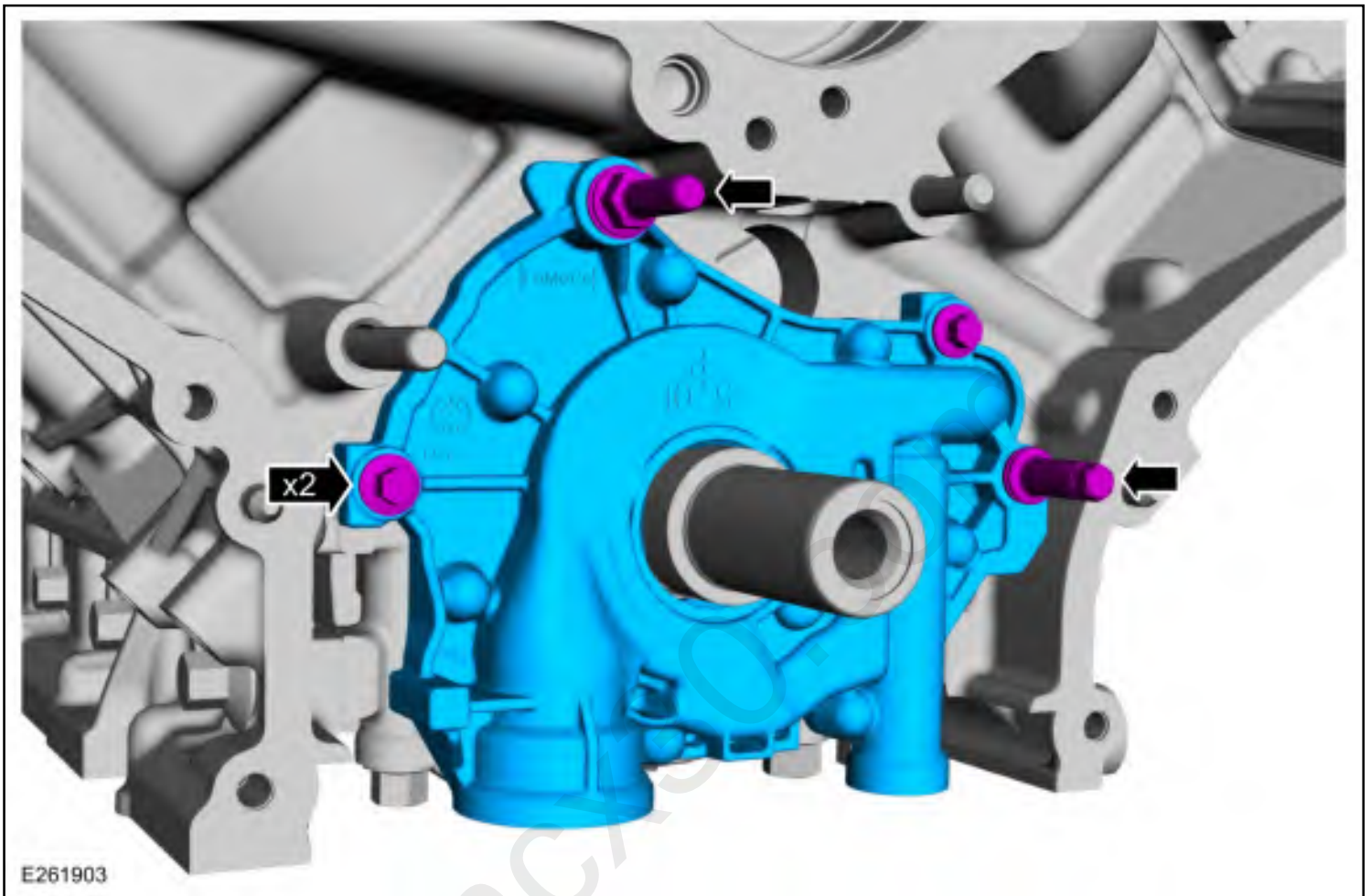
Base Part Number: Base Part Number: 6621

Removal

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. Remove the timing chains.
Refer to: Timing Chain (303-01 Engine - 5.0L 32V Ti-VCT).
3. Remove the crankshaft sprocket.



4. Remove the oil pan.
Refer to: Oil Pan (303-01 Engine - 5.0L 32V Ti-VCT) .
5. Remove the bolts, stud bolts and the oil pump.



Installation

1. Prime the oil pump. Add 2 tablespoons of clean engine oil to the oil pump and rotate the oil pump by hand.
2. **NOTE:** *Oil pump must be held against the cylinder block until all bolts are tightened.*
 - Rotate the inner rotor of the oil pump assembly to align the flats on the crankshaft and slip the oil pump over the crankshaft until seated against the block.
 - Rotate the oil pump until the bolt holes are aligned to the block and install the fasteners hand tight.

Torque:

 - Stage 1: A: 89 lb.in (10 Nm)
 - Stage 2: B: 18 lb.ft (25 Nm)
 - Stage 3: C: 89 lb.in (10 Nm)

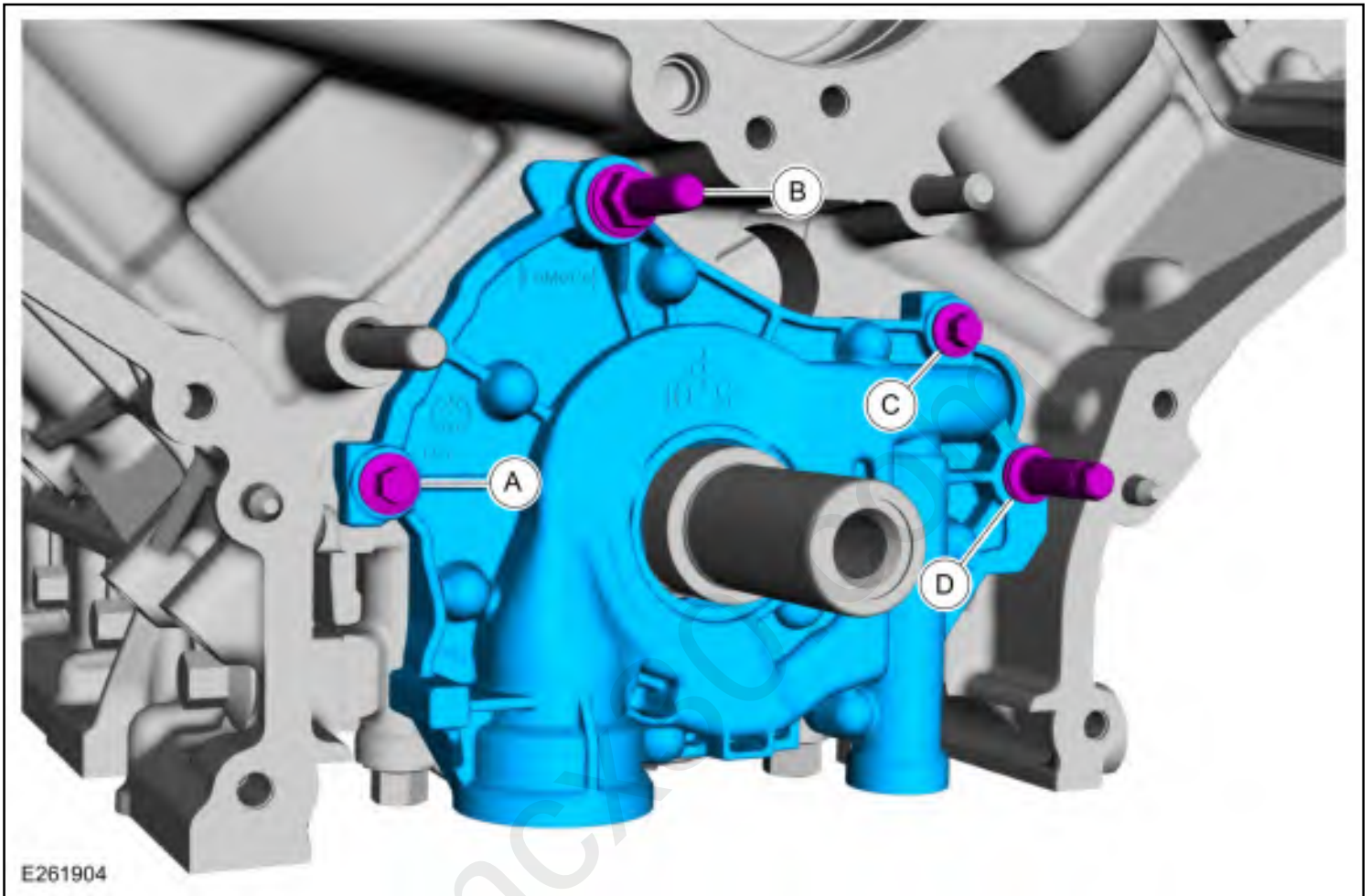
Stage 4: D: 177 lb.in (20 Nm)

Stage 5: A: 45°

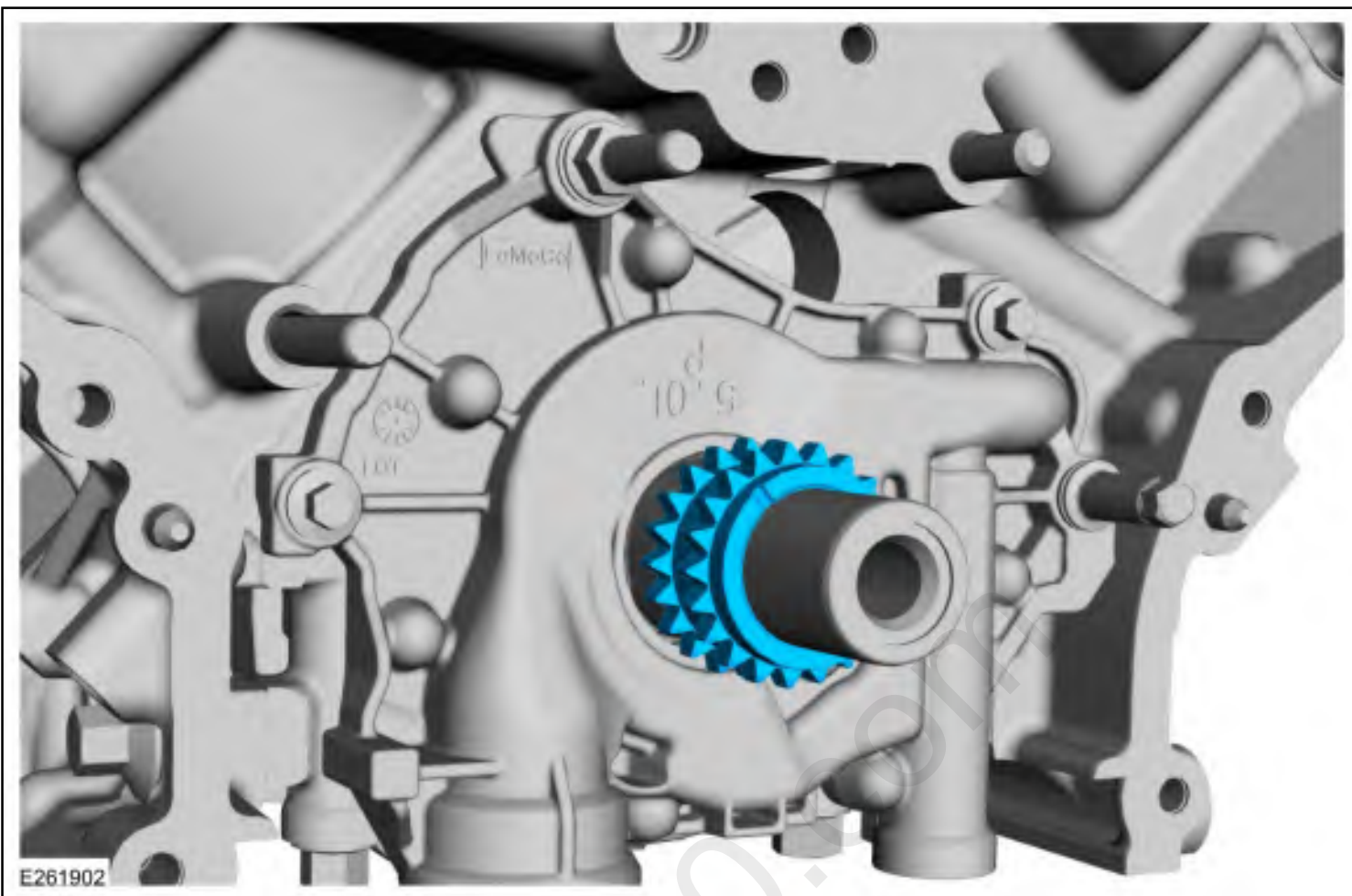
Stage 6: B: 75°

Stage 7: C: 45°

Stage 8: D: 60°



3. Install the oil pan.
Refer to: Oil Pan (303-01 Engine - 5.0L 32V Ti-VCT) .
4. Install the crankshaft sprocket.



5. Install the timing chains.

Refer to: Timing Chain (303-01 Engine - 5.0L 32V Ti-VCT) .

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