

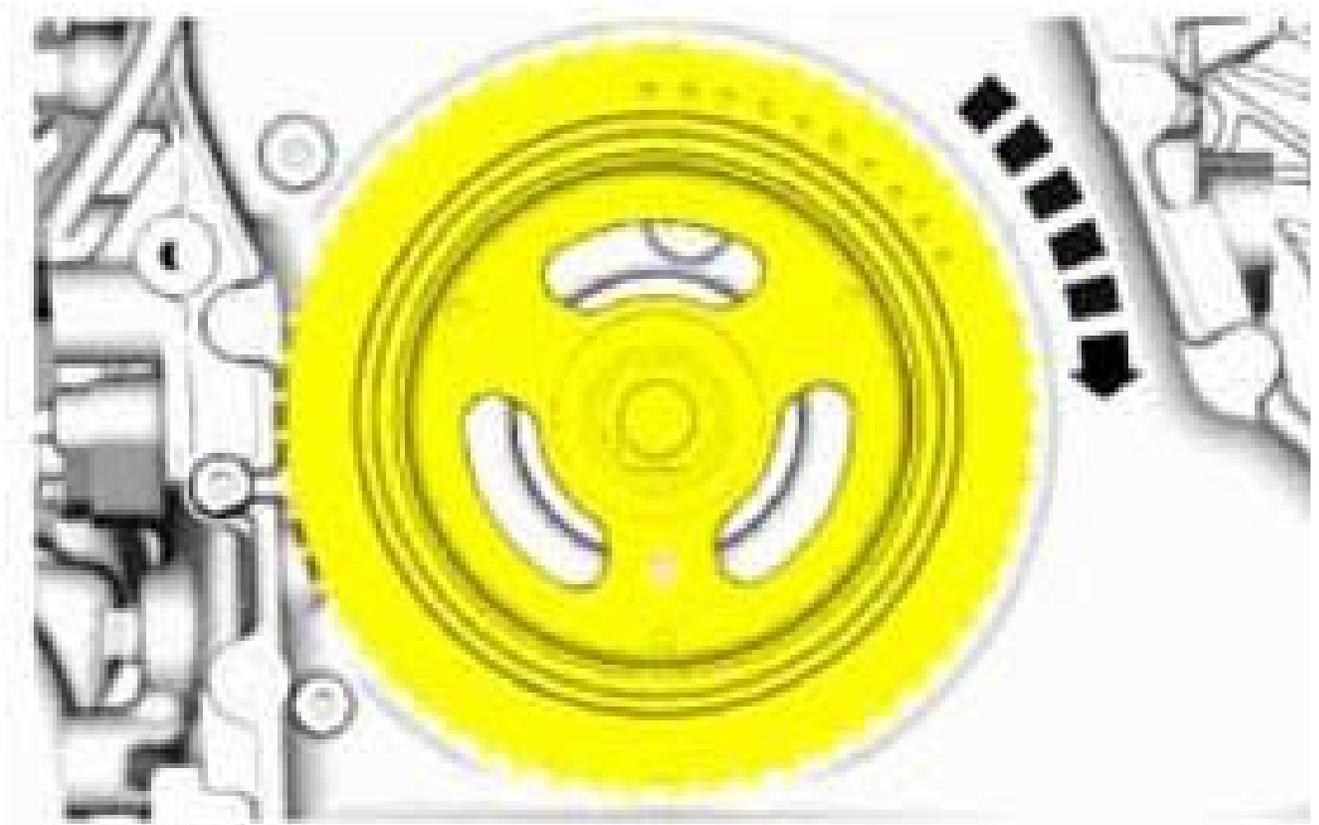
8. **NOTE:** The Crankshaft TDC Timing Peg will contact the crankshaft and prevent it from turning past TDC. However, the crankshaft can still be rotated in the counterclockwise direction. The crankshaft must remain at the TDC position during the crankshaft pulley removal and installation.

**NOTE:** The engine front cover is removed from graphic for clarity.

Use Special Service Tool: **303-507 Timing Peg, Crankshaft TDC** .

2014 Ford C-Max Hybrid SE

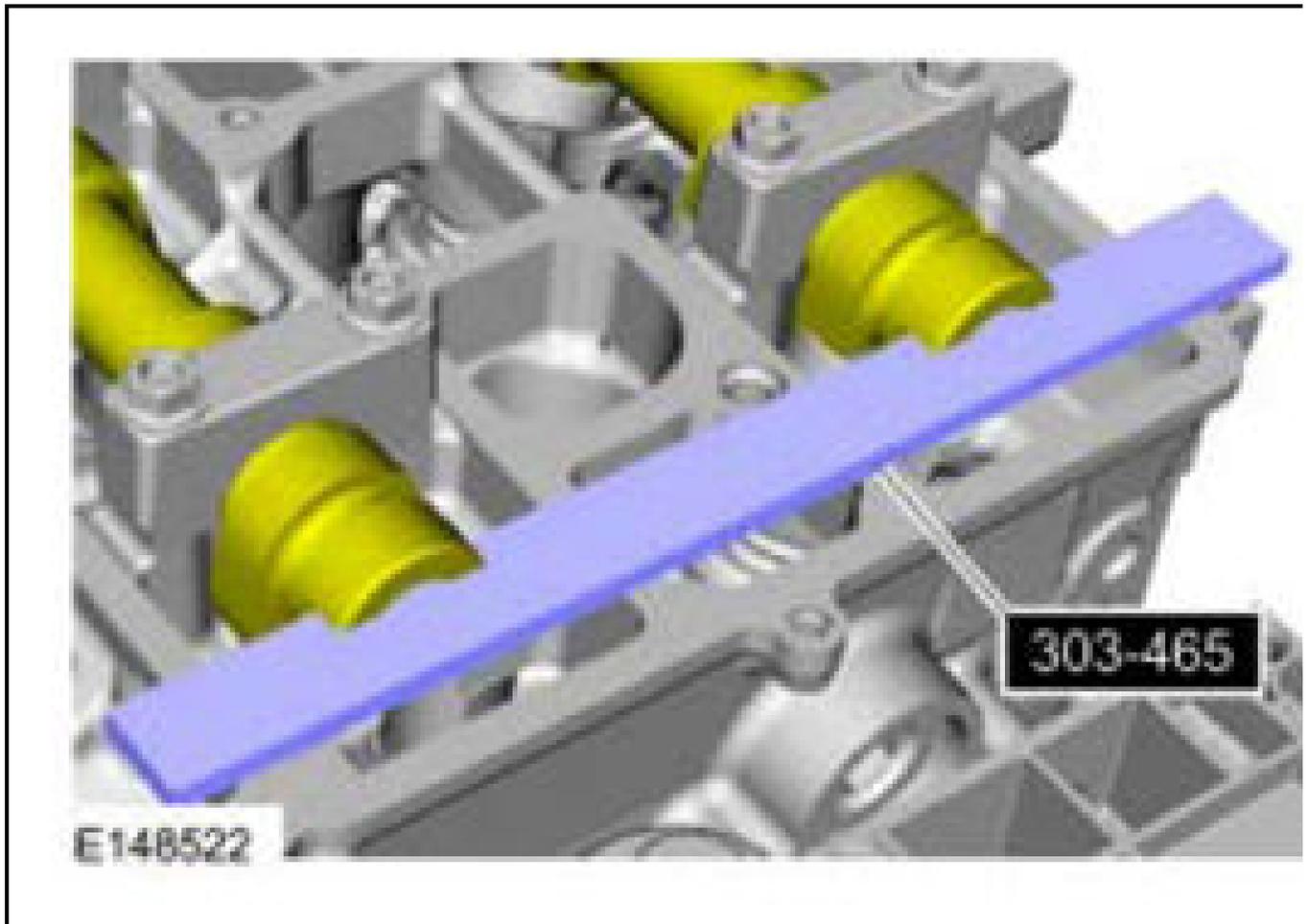
2014 ENGINE Engine Mechanical - 2.0L - C-MAX Hybrid/Energi



9. **NOTE:** The Camshaft Alignment Timing Tool is for camshaft alignment only. Using this tool to prevent engine rotation can result in engine damage.

**NOTE:** The camshaft timing slots are offset. If the Camshaft Alignment Timing Tool cannot be installed, remove the TDC Timing Peg and rotate the crankshaft three-fourths of a revolution clockwise and repeat the previous 2 steps of this procedure.

Install Special Service Tool: 303-465 Tool, Camshaft Align Timing .



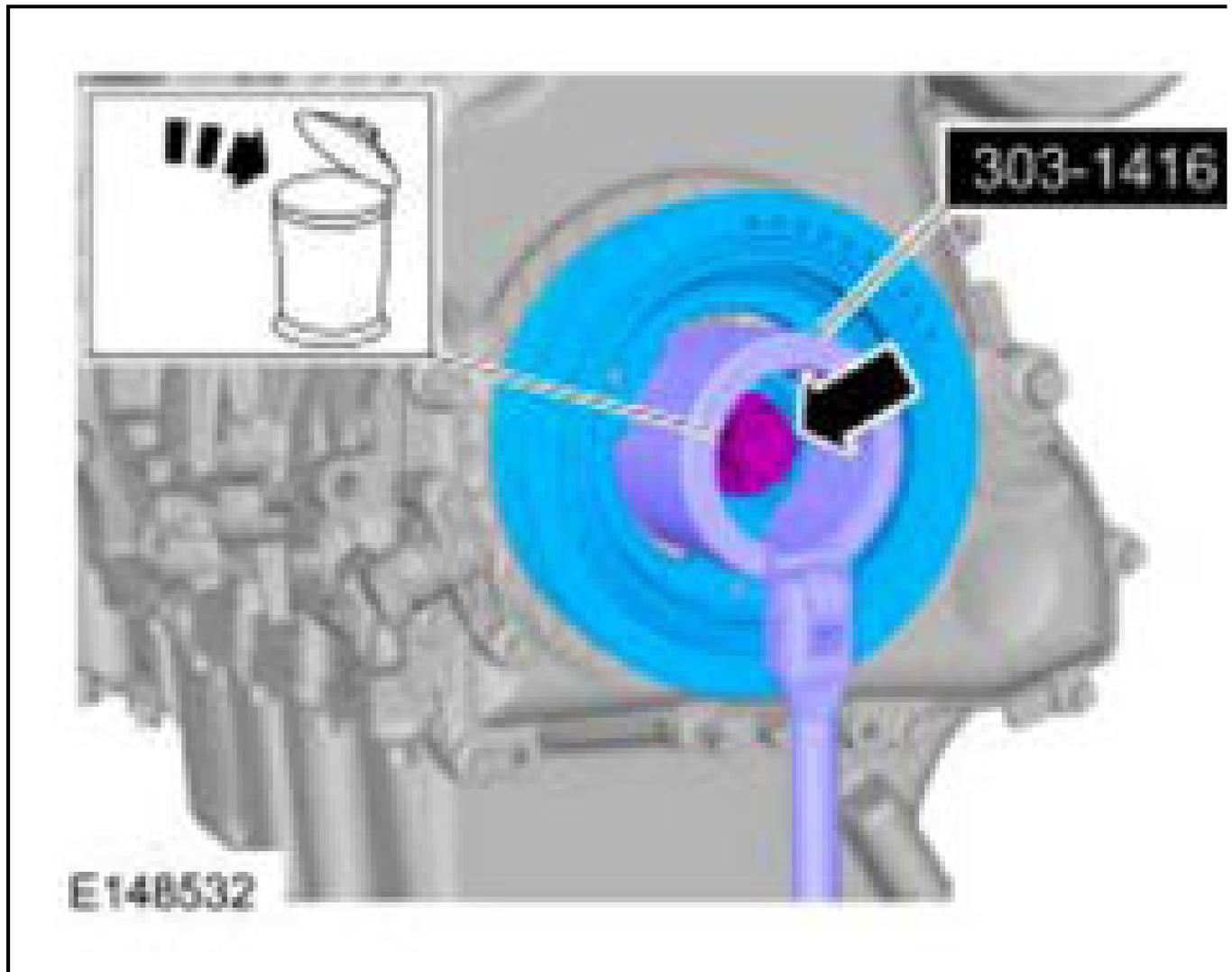
10. **NOTE:** The crankshaft must remain in the TDC position during removal of the pulley bolt or damage to the engine can occur. Therefore, the crankshaft pulley must be held in place with the Crankshaft Damper Holding Tool, and the bolt should be removed using an air impact wrench (1/2-in drive minimum).

**NOTE:** The crankshaft sprocket diamond washer may come off with the

crankshaft pulley.

**NOTE:** Use an air impact wrench to remove the crankshaft pulley bolt.

Use Special Service Tool: **303-1416 Tool, Crank Damper Holding** .



**NOTE:** The crankshaft sprocket diamond washer may come off with the crankshaft pulley. The diamond washer should be cleaned and inspected for any damage. If damage is evident, replace the diamond washer. If no damage, the diamond washer is to be reused during installation. If the diamond washer is not installed, engine damage may occur.

11.

If the diamond washer did not come off with the crankshaft pulley, remove the diamond washer.