



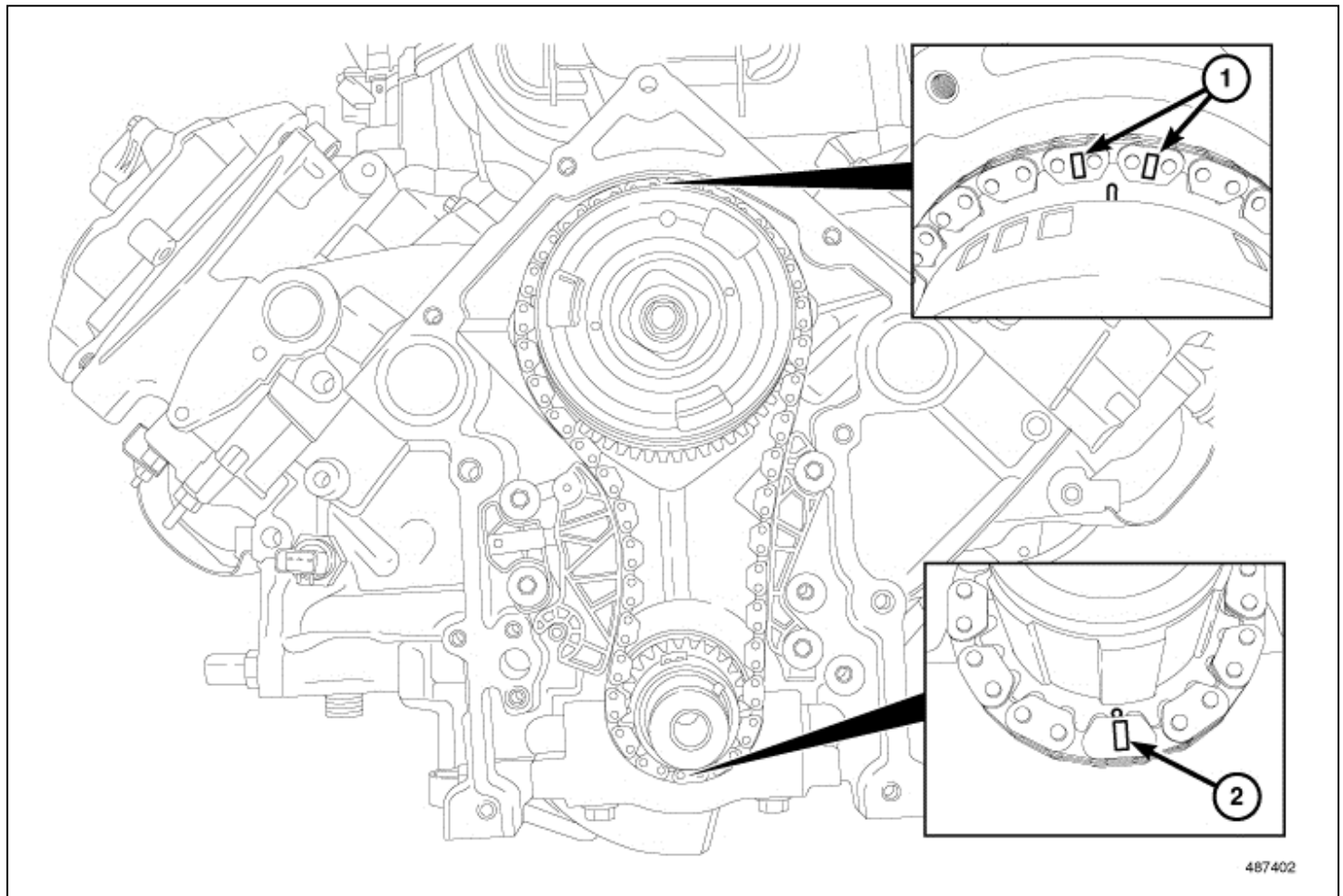
**INSTALLATION INSTRUCTIONS**  
**SCAT PACK 2 KIT PART NUMBER 77072313**  
2011-2015 DODGE CHARGER/CHALLENGER 5.7 HEMI  
**STAGE 2 KIT PART NUMBER 77072315**  
2011-2015 CHRYSLER 300 5.7 HEMI

**09 - Engine, 5.7L / Valve Timing / CHAIN and SPROCKETS, Timing/Removal**

**Special Tools:**

[8514 - Pins, Tensioner](#)

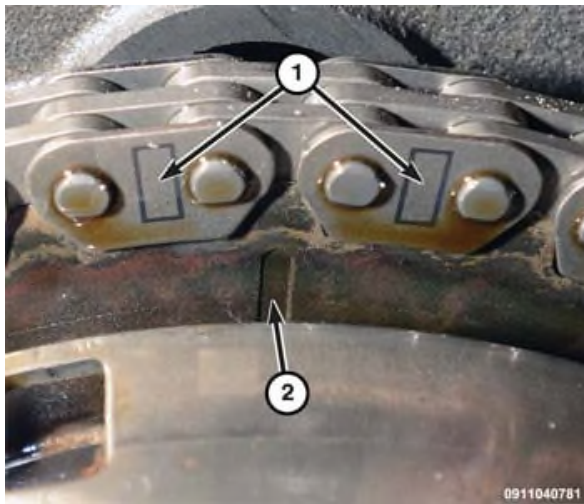
1. Remove the timing chain cover (Refer to 09 - Engine/Valve Timing/COVER(S) , Engine Timing - Removal).



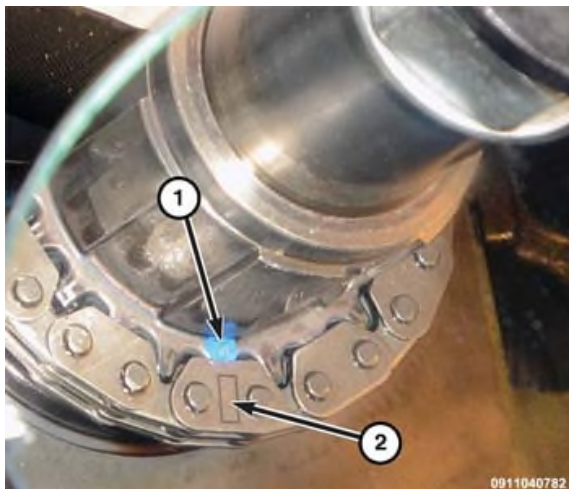


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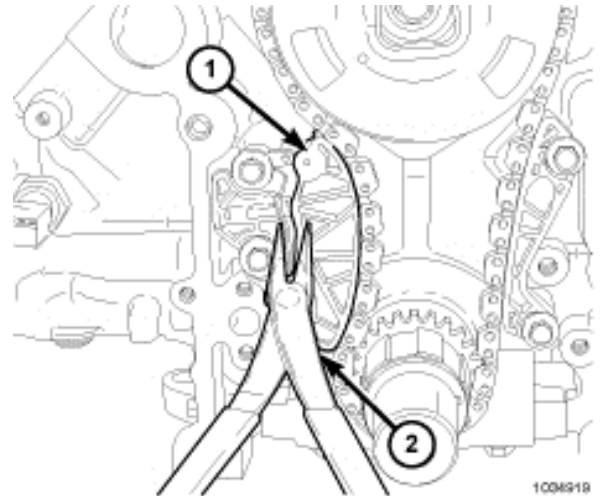
2. Install the vibration damper bolt finger tight. Using a suitable socket and breaker bar, rotate the crankshaft to align the timing marks with the timing chain sprockets (1, 2).
3. Ensure that the camshaft gear (2) is aligned with the camshaft timing chain marks (1) in the twelve O'clock position.



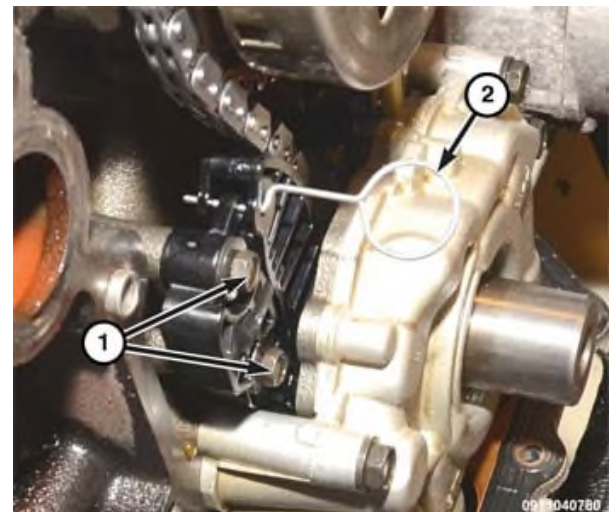
4. The crankshaft gear mark (1) should align with the timing chain mark (2) at the six O'clock position.



5. Retract the chain tensioner arm (1) until the hole in the arm lines up with the hole in the bracket.



6. Install the Tensioner Pin [8514](#) (2) into the chain tensioner holes.

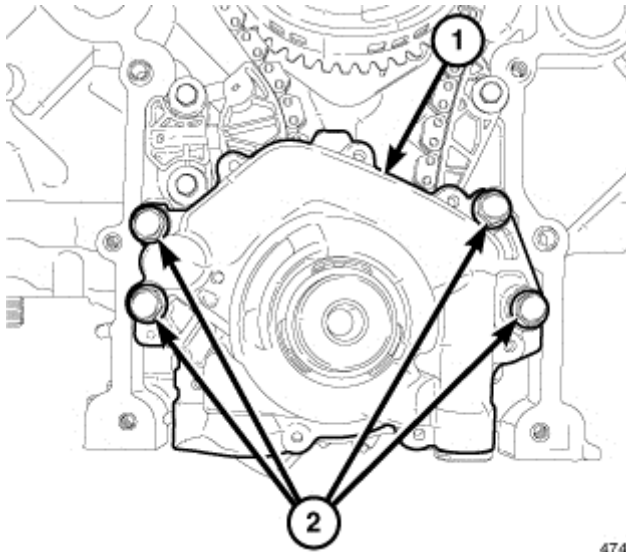


7. If the timing chain tensioner is being replaced, remove the retaining bolts (1) and remove the timing chain tensioner.



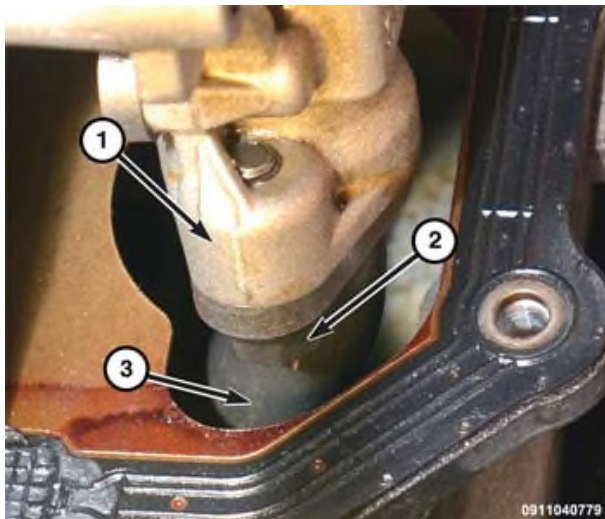
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8. Remove the four engine oil pump (1) retaining bolts (2).



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9. Rotate the engine oil pump body (1) clockwise to gain access to the oil pump pickup tube (3) retaining bolt (2).

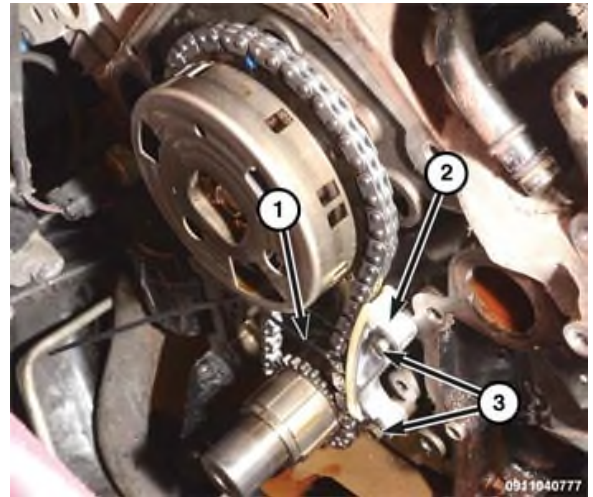


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10. Remove the engine oil pump pickup tube retaining bolt.
11. Remove the engine oil pump pickup tube from the engine oil pump body.

**NOTE:** There is an O-ring on the pickup tube. Be sure not to drop the O-ring into the engine oil pan.

12. Remove the oil pump from the engine.
13. If the timing chain guide (2) is being replaced, remove the retaining bolts (3) and remove the timing chain guide.



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**CAUTION:** Never attempt to disassemble the camshaft phaser, severe engine damage could result.



## INSTALLATION INSTRUCTIONS

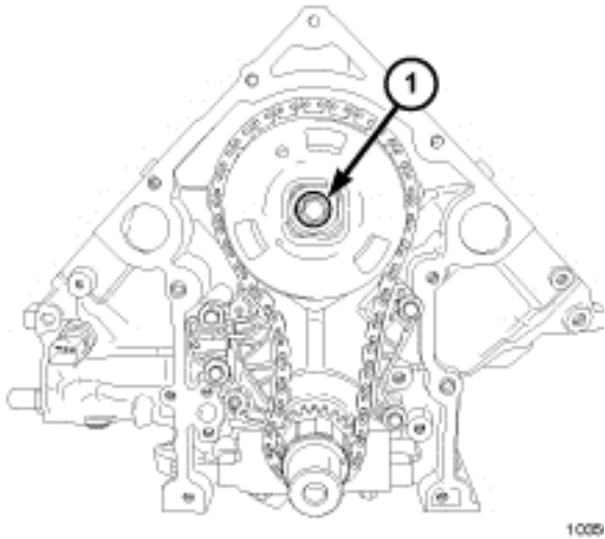
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14. Remove the camshaft phaser retaining bolt (1) and remove the timing chain with the camshaft phaser and crankshaft sprocket.



**NOTE:** Do not rotate the crankshaft or camshaft after timing chain removal. The 5.7L engine has zero skipped tooth clearance. Catastrophic engine damage will result if the proper camshaft and crankshaft positions and not established during assembly.