



Harmonic Balancer Installation Caution for 2002-2009 GM 4.2L Engines

The AERA Technical Committee offers the following information caution on harmonic balancer installation for 2002-2009 GM 4.2L engines. The caution expressed is to advise engine assemblers to make sure to use a NEW shim Part #12573950 while installing the balancer bolt. Failure to using a new bolt while torquing the bolt may provide an inadequate mounting clamp force.

Follow the steps listed below to correctly install the harmonic balancer bolt:

Important: The crankshaft balancer does not have a key-way; so, the crankshaft could turn when tightening, causing an improper torque. Make sure to follow the installation procedure to prevent damage.

- Obtain and use a J41478 installation tool for proper installation
- Use the torque converter holding tool from the J44226 kit and secure the torque converter while tightening the crankshaft balancer bolt.
- Install a NEW crankshaft balancer shim GM Part #12573950 over the crankshaft snout against the crankshaft gear.
- Using the J41478 install and seat the crankshaft balancer until it bottoms out.
- Remove the J41478.
- While still holding the flywheel, install the balancer washer and the bolt, Tighten the crankshaft balancer bolt to 110 FT/LBS (150 Nm). Use the J36660-A tool to tighten the balancer bolt an additional 180 degrees turn.



Figure 1. J1478 Tool