



BMW 843301/843311 Installation Instructions

These instructions are based on OEM procedures for damper/harmonic balancer removal and installation. Vehicle applications vary, before beginning, consult the OEM Damper/Harmonic Balancer Removal Instructions specific to your vehicle to confirm torque specs, special tools, and procedure steps.

Special Service Tools (or Equivalent) Required:

- Flywheel Locking Tool
- Crank Holding Tool

Removal Instructions:

1. Disconnect the ground cable from the battery.
2. Record the routing of the accessory belts.
3. De-tension and remove the accessory belts and all other components necessary to access the damper.
4. Lock the engine's rotating assembly in position using a flywheel locking tool.
5. Remove the [6] damper bolts and remove the OEM damper with pulleys.
6. Install crank holding tool onto the damper hub on the crankshaft.
7. Remove the [1] central crankshaft bolt. (Bolt is 1-time use, **DO NOT REUSE**)
8. Remove the damper hub and crank holding tool from the crankshaft.
9. Remove and discard the crankshaft radial seal. (Seal is 1-time use, **DO NOT REUSE**)

Installation Instructions:

10. Clean the sealing surface (OD) of the Fluidampr replacement damper bore, along with the engine's sealing surfaces.
11. Install new crankshaft radial seal.
12. **If engine is in-car**, consider removing the [3] screws securing the outermost pulley on the Fluidampr and set aside pulley to allow room for crank holding tool.
13. Position the replacement damper so its keyway aligns with the key on the crankshaft.
14. Secure the damper with a crank holding tool and install a **NEW** crankshaft bolt.
15. Torque crankshaft bolt to **410 N·m** (303 ft-lbs).
16. Remove the crank holding tool and flywheel locking tool.
17. **If pulley was removed in Step 12**, reinstall it and torque [3] screws with red Loctite 271 to **43 N·m** (32 ft-lbs).
18. Reinstall all previously removed components in the reverse order of removal.
19. Verify the installation by confirming the damper is properly seated and aligned with all accessory belts.

WARNING: FAILURE TO USE PROPERLY TORQUED BOLTS WILL VOID WARRANTY AND COULD RESULT IN DAMPER, KEY, OR CRANK DAMAGE. ONLY USE THESE TORQUE VALUES WHEN INSTALLING DAMPER WITH OEM BOLTS. *NEW BOLTS MUST BE USED EVERYTIME*

LIMITED WARRANTY

WARRANTY: All warranty claims must be made with your point of purchase. LIMITED WARRANTY: Fluidampr warranty extends to the original purchaser only and a copy of sales receipt must be provided. Keep your receipt. Fluidampr recommends to our customers that they have their Fluidampr products installed by a certified technician or engine builder as warranty does not cover installation errors. Fluidampr offers a 1 year warranty for defects in material and workmanship. Repair or replacement will be at Fluidampr's discretion. If purchased from Fluidampr: To obtain warranty service, call customer service to receive a return authorization number. Returns must include the RMA#, description of the problem and a copy of the purchase invoice/receipt. Returns without an RMA# will not be processed. Customers are responsible for freight charges to Fluidampr. If product is found to be faulty, Fluidampr will pay UPS Ground Freight when returning the product to customer. THIS WARRANTY DOES NOT INCLUDE AND IS NOT LIMITED TO THE FOLLOWING: • Failure due to improper installation or maintenance. Loss or injury incurred from use or operation of Vibratech/Fluidampr products. • Misuse, abuse, modifications, or unauthorized repairs. • Removal or replacement cost. • Cost incurred due to downtime of vehicle. • Damage to other engine or vehicle components. • Normal wear and tear. • Use in racing applications or competitive purposes. Fluidampr limited warranty coverage is subject to change due to uncontrolled circumstances with or without notice.

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