



DINAN

STAGE 1 LIGHTWEIGHT FLYWHEEL ASSEMBLY

INSTALLATION INSTRUCTIONS

PART NUMBER D550-3904

APPLICATION: E39 M5, E52 Z8

PARTS LIST

<u>Qty</u>	<u>Description</u>
1	Lightweight Flywheel

Congratulations for being selective enough to use a Dinan Engineering Lightweight Flywheel. We have spent many hours developing this clutch to assure that you will receive maximum performance and durability with minimum difficulty in installation. Please take the time to read these instructions and call us if you have any difficulties during the installation.

FLYWHEEL INSTALLATION NOTES:

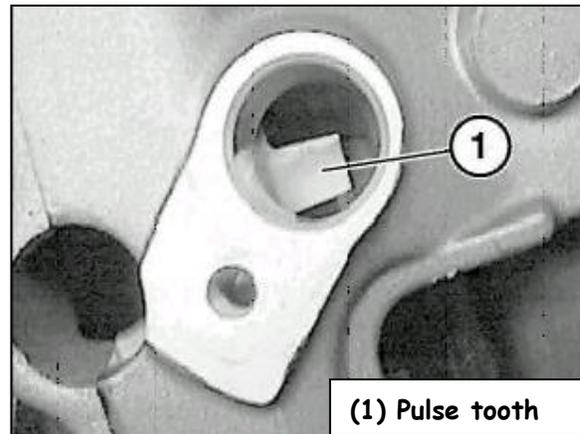
- **YOU MUST USE THE FACTORY TOOLS AND FOLLOW THE TIS FOR REMOVAL AND INSTALLATION OF THE PRESSURE PLATE!**
- Lubricate flywheel bolt threads lightly. **NO LOCTITE**
- Torque flywheel bolts to 75-80 ft-lbs.
- Re-install the factory disc and pressure plate cover.
- Torque pressure plate cover bolts to 20 ft-lbs.

If you encounter any difficulties during the installation, or if these instructions are not clear to you, please call Dinan's Technical Support Staff at (408) 779-8584.

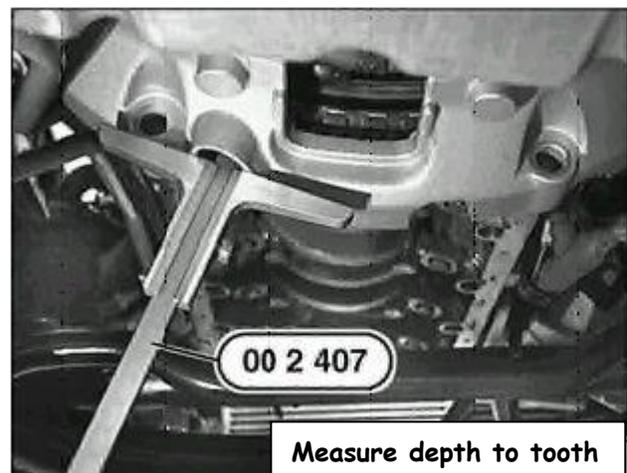
PULSE GENERATOR NOTES:

YOU MUST CHECK AND ADJUST IF NECESSARY THE DEPTH OF THE PULSE GENERATOR TO THE FLYWHEEL TEETH.

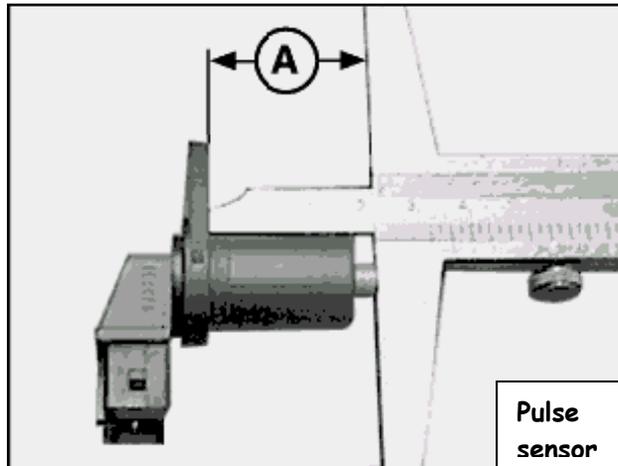
- Remove the Pulse Generator.
- Turn the crankshaft bolt over until you can see a full pulse tooth through the removed Pulse Generator hole. Make sure that the pulse tooth (1) is exactly centered in the hole.



- Use a depth gauge (BMW Tool # 00 2 407) or Dial calipers with a depth gauge to determine depth to flywheel pulse tooth.
- Note depth.



- Measure depth (A) of pulse sensor.
- Deduct depth (A) of pulse sensor from depth of flywheel pulse tooth. This result is the gap dimension.



- Set a gap of $0.55 \pm 0.2\text{mm}$ with the shims.
- Set measurement of 0.55mm as precisely as possible in order to:
 1. Enable exact misfiring detection.
 2. Prevent Crankshaft Sensor fault.
 3. Prevent pulse generator from coming in contact with pulse teeth.
- BMW Shim parts number: 12 14 1 742 693