

## **Mini Cooper Ignition Upgrade kit! R50 R52 R53 Cooper & S**

**R50 MINI Cooper (2002-06)**

**R53 MINI Cooper S (2002-06)**

**R52 MINI Cooper Convertible (2005-08)**

**R52 MINI Cooper S Convertible (2005-08)**

### Installation of Coil Pack

1. Locate OEM coil pack on top of valve cover toward back of engine.
2. Remove electrical plug from coil pack. Note: slide small red tab to one side, then push down on release to remove plug.
3. Remove spark plug wires from coil pack. Note: keep track of where wires came off of OEM coil pack as MSD coil pack do not have the cylinders marked. You can always use the OEM coil pack as reference where plug wires went as the OEM coil pack has the cylinders marked.
4. Remove 4 bolts (10mm head) from coil pack. These bolts have thread locker applied on them, which makes them tight to remove. Note: keep track of rubber bumpers/washers below coil pack, as these will be reused with MSD coil pack.
5. Remove OEM coil pack and install MSD coil pack in same orientation as OEM one was installed.
6. Install supplied bolts/rubber washers through coil pack making sure to install with rubber washers facing away from head of bolt. Install OEM rubber bumper/washers between coil pack and valve cover. Note: failure to install these and over tightening coil pack WILL result in valve cover failure.
7. Tighten bolts into valve cover until bolts stop. Because bolts are tight to thread into valve cover, a torque spec is not supplied. Simply tighten bolts by hand (with nut driver) until bolt stops. This where bolt bottoms out in valve cover. Further tightening from here will result in valve cover failure. If installed properly, coil pack will be able to move slightly on valve cover.
8. Install plug wires same way as removed from OEM coil pack. Remember to use OEM coil (with cylinders marked on top of coil pack) to help with installing plug wires on MSD coil pack. For reference, Cylinder #1 is on right side of engine (side with serpentine belt) and #4 is on left side of engine (side with air box).
9. Plug electrical plug into coil pack. Make sure to slide red tab back after completely plugged in.
10. Start car and check that car idles normally. If car idles normal take car for test drive. If car idles erratically, check that all spark plug wires are plugged into the proper pin on coil pack.