

MSD INSTALLATION INSTRUCTIONS

MSD High Output Coil

PN 8280 / PN 82808 / PN 82803 / PN 828038

ONLINE PRODUCT REGISTRATION: Register your MSD product online and you'll be entered in our monthly 8.5mm Super Conductor Spark Plug Wire give-away! Registering your product will help if there is ever a warranty issue with your product and helps the MSD R&D team create new products that you ask for! Go to www.msperformance.com/registration.

IMPORTANT: Read the instructions before attempting the installation.

Parts Included, PN 8280, PN 82803:

1 - Coil
Mounting Hardware

Parts Included, PN 82808, PN828038:

8 - Coils
Mounting Hardware

WARNING: During installation, disconnect the battery cables. When disconnecting the battery, always remove the Negative cable first and install it last.

Note: This high output coil is meant to be used with MSD's Pro 600 CDI (PN 8000). The coil will be wired to the Pro 600 CDI harness.

WIRING

There are three terminals on top of the coil. The terminals are marked by a positive, and negative sign, and by the letters "CS". Two of the three wires used for the coil are integral to the Pro 600 CDI harness, the third will be a ground wire that must be connected to the associated cylinder head in which the corresponding spark plug is installed. Each wire requires a ring terminal to be crimped at the end in order to be connected to the coil. The ring terminals for each of the three wires are supplied with the coil. The brown and the grey wires coming from the harness must use the #10 ring terminals, and the black wire uses the #8 ring terminal. The brown and the grey wires attach with the 10-32 x .375 pan head screws and the #10 lock split washers. The black wire attaches with the 8-32 x .375 screw and #8 lock split washer. MSD recommends using black 14-16 gauge wire to connect the "CS" terminal to the cylinder head associated with the corresponding spark plug. The grey wire from the Pro 600 CDI harness attaches to the negative terminal of the coil, and the brown wire attaches to the positive coil terminal (Figure 1).

Note: CS = Current Sensing feature will be available on future products, and will have its own designated wire.

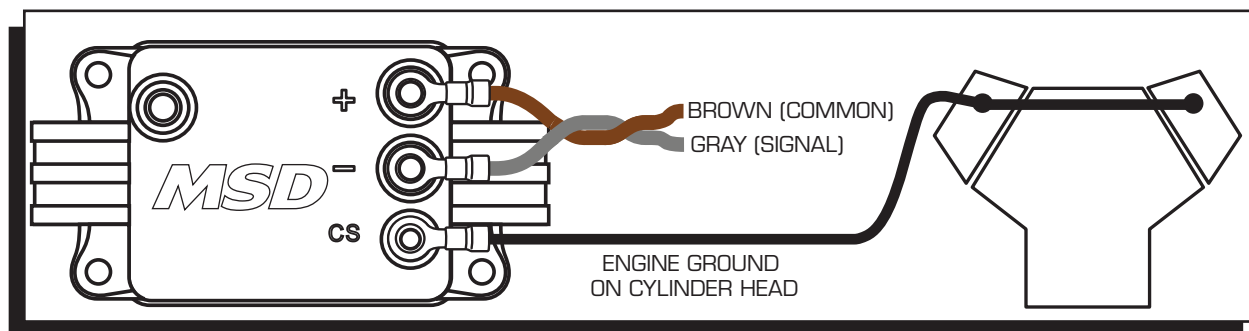


Figure 1 Coil Wiring.

MOUNTING

The coils come supplied with a variety of hardware to accommodate different mounting locations, and orientations. The coils are designed to be mounted on Holley's LS valve covers, or OEM LS passenger car coil brackets, using the two side mounts (Figure 2). The coils can be remotely mounted. When mounting the coils on Holley valve covers or OEM brackets, use the supplied M6 x 1.0 40mm bolts. If the coils will be remotely located, they can be placed using either the bottom or side tabs, and should be mounted out of the way of any excessive heat (Figure 3).

COIL SPECS

The following specifications show coil performance using the PRO 600 CDI operating at 600 millijoules.

- Maximum Secondary Voltage with 50 pF load - 50 kilovolts.
- Peak Secondary Current - 1.7 Amps
- Spark Duration - 345 microseconds
- Spark Gap Energy - 208 millijoules

Values stated above are for reference only. Actual values may vary across different applications.

A template is supplied (Figure 4) in order to mock up the four mounting holes located on the bottom side of the coil.

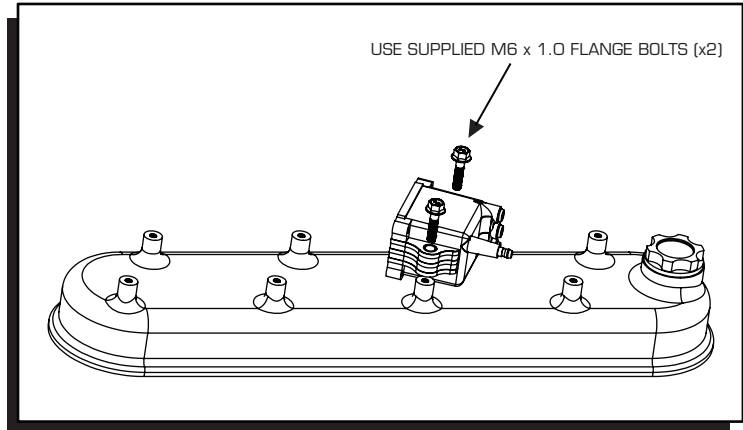


Figure 2 LS Valve Cover Mounting.

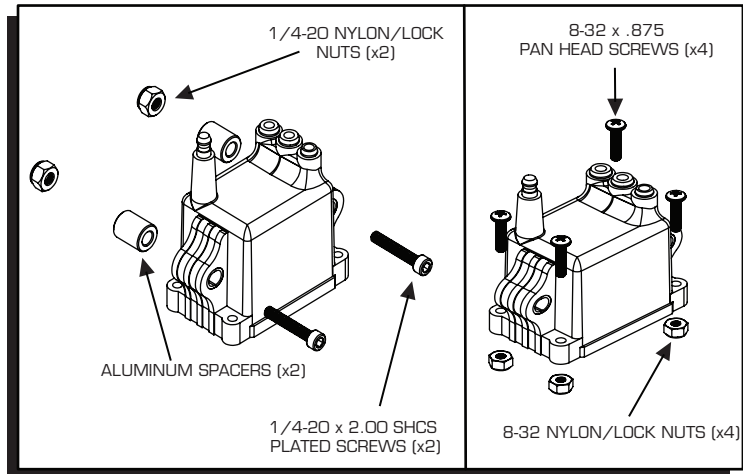


Figure 3 Remote Mounting Options.

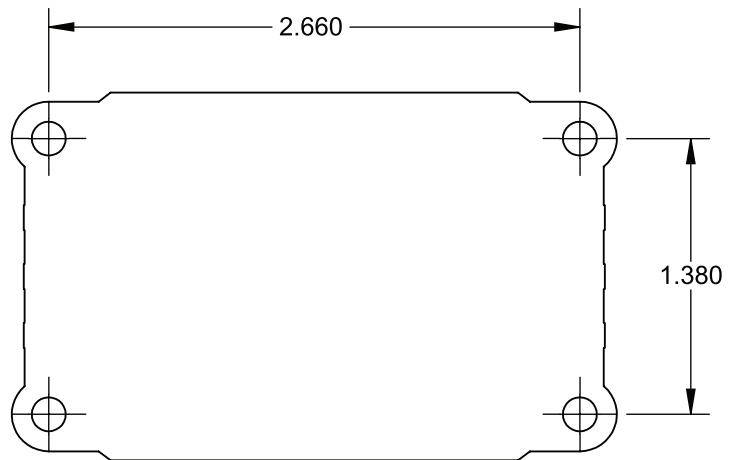


Figure 4 Coil Mounting Template

