



# INSTALLATION INSTRUCTIONS

## ENGINE KNOCK ALERT, PN 8964

**IMPORTANT:** Read the Instructions before attempting the installation.

### Parts Included:

- 1 - Engine Knock Alert Control
- 1 - Knock Sensor
- 1 - 3/8" Snap Bushing
- 1 - Adapter Fitting, Female
- 1 - Cable Harness
- 1 - Single Pin Connector
- 1 - T - Wire Splice
- 1 - Velcro Mount Kit

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

## MOUNTING

Use the supplied Velcro strips to mount the Engine Knock Alert (EKA). Be sure that it is visible to the driver and that the wiring reaches the Knock Sensor. Make sure the area is clean before applying the velcro.

## INSTALLING THE KNOCK SENSOR

The Knock Sensor is designed to be threaded into a hole in the engine block with 1/4" NPT. Many engines have drilled and tapped holes available, or you may have to remove a drain plug to install the Sensor. An Adapter is also supplied for more installation options.

## WIRING

The wires connect as follows:

**Red** - Connects to a switched 12 volt source.

**Black** - Connects to Ground.

**White** - Connects to the Knock Sensor. Route the wires away from moving components and hot engine parts such as the exhaust manifolds. The White wire should be routed through a grommet in the firewall. A 3/8" snap bushing is supplied to run the wire through the firewall if you need to drill a hole.

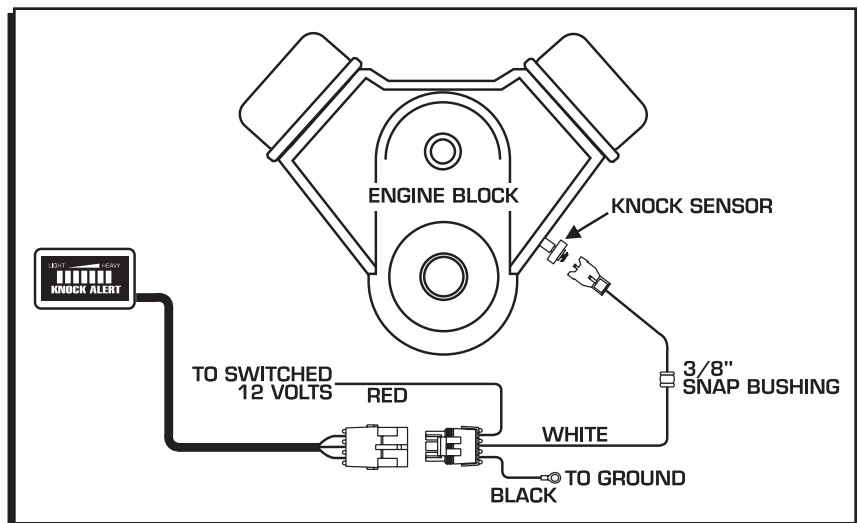


Figure 1 Wiring the Engine Knock Alert.



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## **OPERATION**

The EKA features a sensitivity adjustment so the Sensor can be adjusted to your engine's characteristics. To obtain a good starting point, follow the proceeding steps.

1. With the vehicle parked on a flat surface and the parking brake applied, start the engine.
2. When the engine is warm, bring the rpm level to approximately 2,500 rpm.
3. Turn the Sensitivity Control Dial until the first green LED lights. This gives you a good starting point.

**Note:** On applications where very light knocking is present, the Green light may not come on. If this occurs, turn the Sensitivity dial to the maximum setting.

The Audible Alert has a volume control to adjust the level to a comfortable beep. The Beep can also be turned completely off. It will not Beep until the knock is to the level of the Green to Yellow LEDs.

### **Service**

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936.**

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle.

The repaired unit will be returned as soon as possible after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (Mountain Time).

### **Limited Warranty**

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.