



# INSTALLATION INSTRUCTIONS

## MSD RICH/LEAN INDICATOR PN 8933

**Important:** Read the instructions before the installation.

### Parts Included:

- |                                      |               |
|--------------------------------------|---------------|
| 1- Rich/Lean Indicator, PN 8933      | 1 - Parts Bag |
| 1 - Oxygen Sensor, PN 8935           |               |
| 1 - 8 Foot Indicator to Sensor Cable |               |

**WARNING:** Before installing the Rich/Lean indicator, disconnect the Battery cables. When disconnecting the battery cables, always remove the negative (-) first and install it last.

**Note:** PN 8933 Rich/Lean indicator will not work with leaded fuels.

The Rich/Lean Indicator uses a heated Oxygen Sensor to measure the amount of oxygen in the exhaust system. Optimum air/fuel ratio is 14.7:1. When the green LED light is lit, the mixture is rich. When the red LED light is lit, the mixture is Lean. The optimum mixture will be shown as a rapid switching of the green and red LED lights.

### MOUNTING

The RLI should be mounted in plain view using the supplied self-tapping screws. A 3/8" snap bushing is included so the 8 foot extension harness can be routed through a firewall or panel.

### INSTALLING THE OXYGEN SENSOR

The sensor will need to be mounted in the exhaust system using the supplied weld-in bung. With a full exhaust, the sensor should be mounted in the header collector approximately 6-inches from where the header tubes merge. On an open exhaust, it is recommended to position the sensor into one of the individual exhaust tubes approximately 3"-6" inches from the cylinder head. For bank to bank readings, an optional switch, PN 8967, can be used along with an additional O2 sensor, PN 8935, and bung kit, PN 8934.

**Note:** A 7/8" hole will be needed in order to install the weld-in bung.

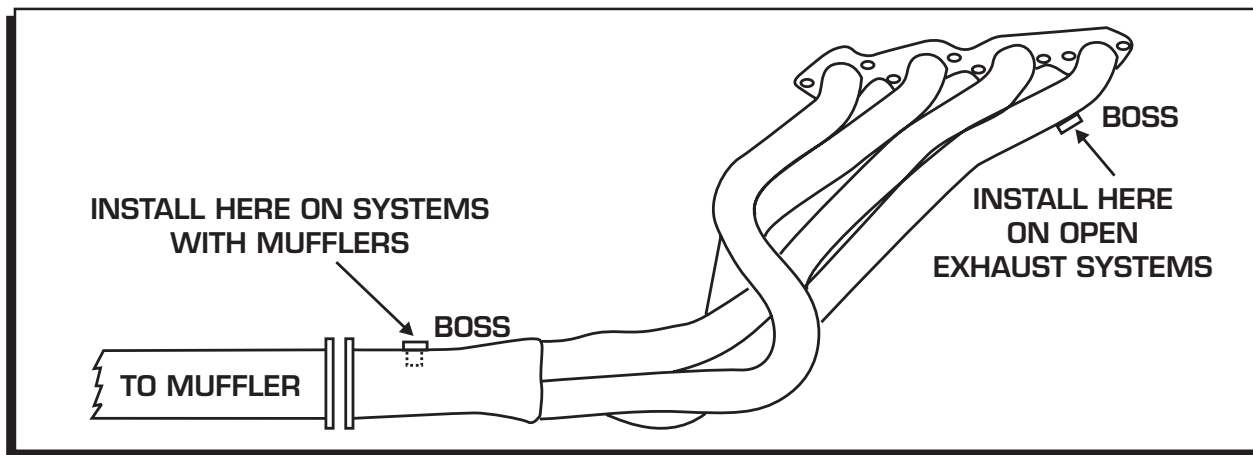
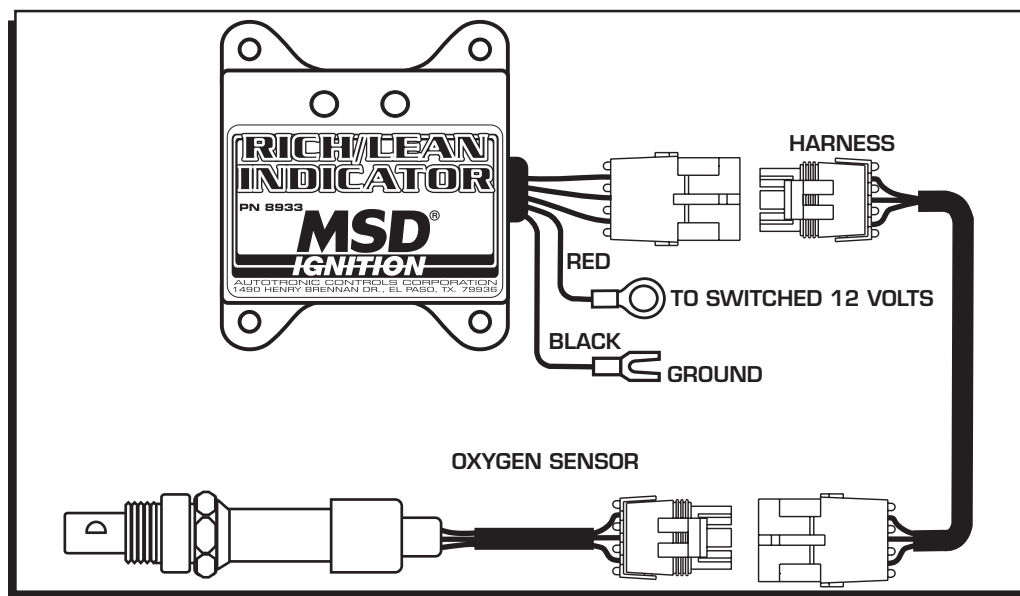


Figure 1 Installing the O2 Sensor Bung.

# MSD IGNITION<sup>®</sup> INSTALLATION INSTRUCTIONS



**Figure 2 Wiring the Indicator (Optional Extension Harness Shown).**

**Tech Notes:** For accurate readings make sure that there are no intake or exhaust leaks. If the RLI stays on at all times, there may be an intake or exhaust leak. The weld in bung should also be fully sealed.

## 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, MSD Ignition, 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

MSD IGNITION 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 MSD Ignition. 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 MSD Ignition be liable for special or consequential damages.