INSTALLATION INSTRUCTIONS

MSD PRESSURE CHAMBER

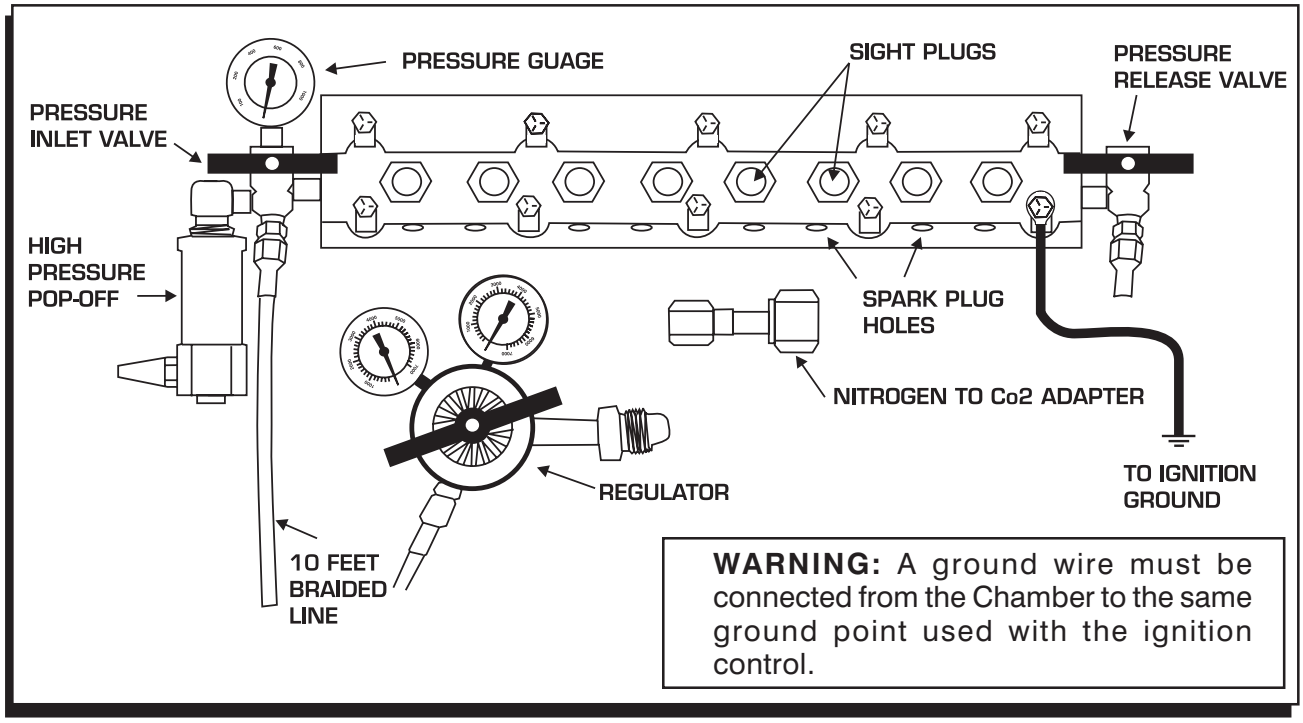
PN 9207

for the Professional Spin Fixture

Parts Included:

1 - Pressure Chamber	10' - Braided Line
1 - Pressure Regulator	1 - CO2 Adapter

WARNING: A ground wire MUST be connected from the Chamber to the same ground point used with the ignition control.



The MSD Pressure Chamber.

- This Pressure Chamber is designed for use with the MSD Distributor Spin Fixture. Many variables will affect the operation and results of the Pressure Chamber ranging from the spark plugs used, their gap and even the gas used to pressurize the Chamber.

- The Pressure Chamber will not measure voltage. To measure the voltage and other spark information you need an oscilloscope and high voltage probe or an MSD Load Bank, PN 8999.

- The regulator supplied with the Pressure Chamber has a fitting for a Nitrogen bottle and is set up for 450-500 psi. An adapter and nylon washer is supplied to connect to a CO2 bottle. There is also a high pressure pop-off valve that is set for approximately 550 psi.

- Nitrogen or Carbon Dioxide are preferred gases to use with the pressure chamber. CO2 offers a higher breakdown voltage than Nitrogen so less pressure is required. Since there are so many variables such as plug gap and the ignition being used, it is recommended to start the gas pressure at 100 psi and raise the pressure in small increments.

- If the windows of the chamber get cloudy over time, DO NOT remove them. There are pipe plugs on the back of the chamber that can be removed so the windows can be reached with cotton swabs.

- Too high of pressure can result in voltage breakdown of the spark plug wire, boot or even the plug itself. If this occurs, the boot, wire and spark plug must be replaced.

- When testing with the chamber, the gas inside will heat up and become ionized due to the sparks. Adjusting the pressure release valve for a small amount of leakage will allow the heated gas to escape.

  Spark Plugs: The electrode will affect the required voltage to jump the gap. Fine wire, V-groove, U-groove all will have different characteristics and results in the chamber. Also, just like in an engine, spark plug gap plays an important role in the voltage required to ionize the gap.
  Note that the washer/gasket of most spark plugs will leak a small amount. A set of plated copper washer/gasket is supplied to improve the spark plug sealing.

  Distributor Caps and Rotors: The distributor cap and rotor will also be affected by the pressure within the chamber. Smaller diameter caps will break down before larger diameter caps. When pressure exceeds the cap's ability you will be able to hear the spark firing erratically in the cap. When this occurs, lower the pressure or plug gap.

WARNING: A ground wire must be connected from the Chamber to the same ground point used with the ignition control.