

# MSD INSTALLATION INSTRUCTIONS

## MSD Digital Ignition Tester PN 8998

These instructions detail how to use the Ignition tester with an MSD 6, 7, 8, 10, or SCI Series Ignition and the CPC Ignition, PN 7600. If you need to test an MSD DIS Ignition, you need tester PN 8996.

**WARNING:** Do not connect directly to the coil or this unit will be damaged.

### PARTS INCLUDED:

- 1 - Digital Ignition Tester, PN 8998
- 1 - Load Plug

**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!

## PROGRAMMING

When you first connect power to the Tester, the LCD will display the name and Part Number. You can bypass this information by pushing the Red button. The Tester automatically defaults to the program for an 8-cylinder, single trigger ignition system. To select different applications press the Red Select button until the program you need is displayed.

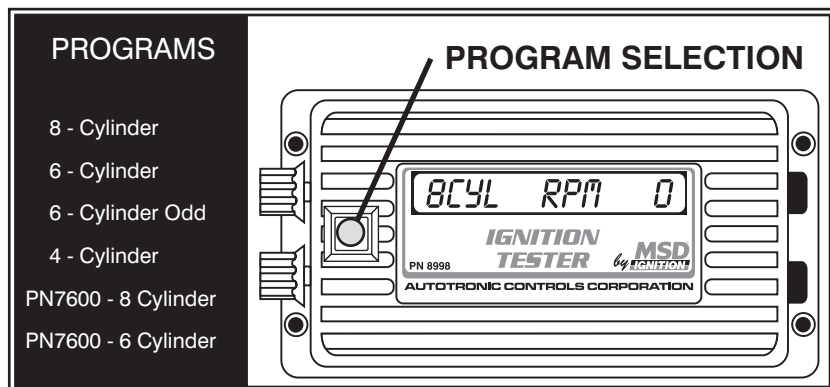


Figure 1 Ignition Tester Programs.

## WIRING

The wires of the tester connect as follows. **Note:** The Cam Sync connector is only used with the Digital Programmable 7 Series and Multi-Function Controllers.

<b>Red:</b>	Connect to 12 volts.
<b>Black:</b>	Connect to a good ground source.
<b>White:</b>	This is the trigger wire used to test the points/amplifier (white wire trigger) circuit of an MSD Ignition.
<b>Green/Violet:</b>	This 2-Pin connector is for testing the magnetic input circuit of MSD Ignitions. It plugs directly into the MSD's magnetic pickup connector. Violet is mag (+) and Green is mag (-).
<b>Cam Sync Lt. Blue/ Lt. Green:</b>	This is a 2-pin connector for testing the cam sync pickup circuit of an MSD Programmable Ignition or CPC Ignition System. It plugs directly into the MSD Digital 7 Programmable Ignition's cam pickup connector. Light Blue is cam (+) and Light Green is cam (-). The CPC Ignition is supplied with a harness adapter.

## RPM ADJUSTMENT

The MSD Digital Tester has two rpm adjustments; Coarse and Fine:

**Coarse Adjustment:** When this knob is turned clockwise the rpm will increase in 100 rpm increments. This allows a large spread of rpm to be covered in a short period of time.

**Fine Adjustment:** When this knob is turned clockwise the rpm will increase in 1 rpm increments for precise adjustments.

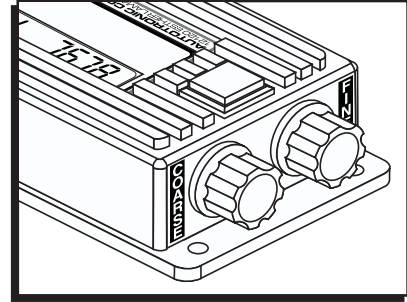


Figure 2 Adjusting the Tester's RPM.

## INSTALLATION & USE

1. Be sure the ignition is Off.
2. Remove the coil wire from the distributor cap and install the MSD Load Plug. Connect the Plug to a ground source. Make sure the ground source is away from fuel lines, the carburetor or throttle body as a spark will jump the gap.

**WARNING:** A spark is going to jump across the tester's gap. Make sure there are no fuel sources or wiring near the tester. Never touch the test plug with the tester connected.

3. Attach the Tester's Red wire to a 12 volt source such as the positive battery terminal.
4. Connect the Black wire to ground.
5. Connect the trigger wire to fit your application. This will be the wire with the White alligator clip or the 2-pin connector for magnetic pickups. **Note:** The 2-pin mag pickup connector will *never* be used with the White trigger wire.
6. Make sure both the coarse and the fine adjustments on the tester are turned to the full counter clockwise position (zero).
7. Turn the ignition switch On and press the red button of the Tester until your appropriate engine combination is selected.
8. Increase the Coarse adjustment until you reach the desired rpm. Note that a spark will be firing across the load plug. The fine adjustment can be used to get the exact rpm you desire.

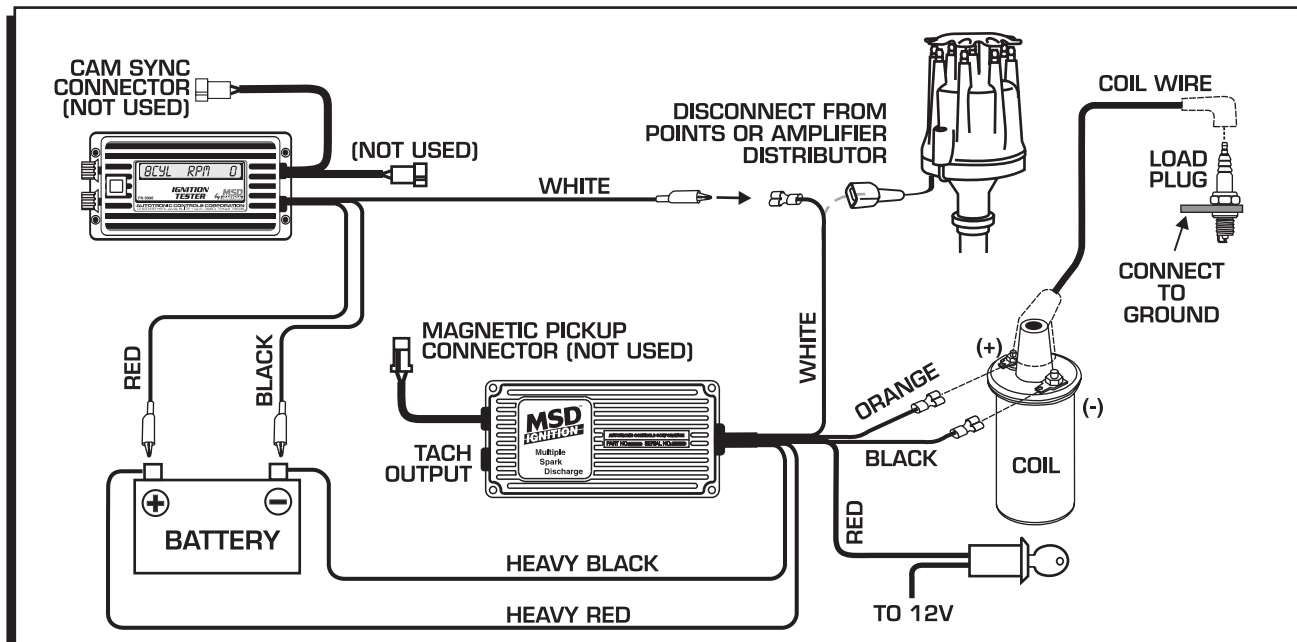


Figure 3 Testing an MSD 6 Series Through the White Wire.

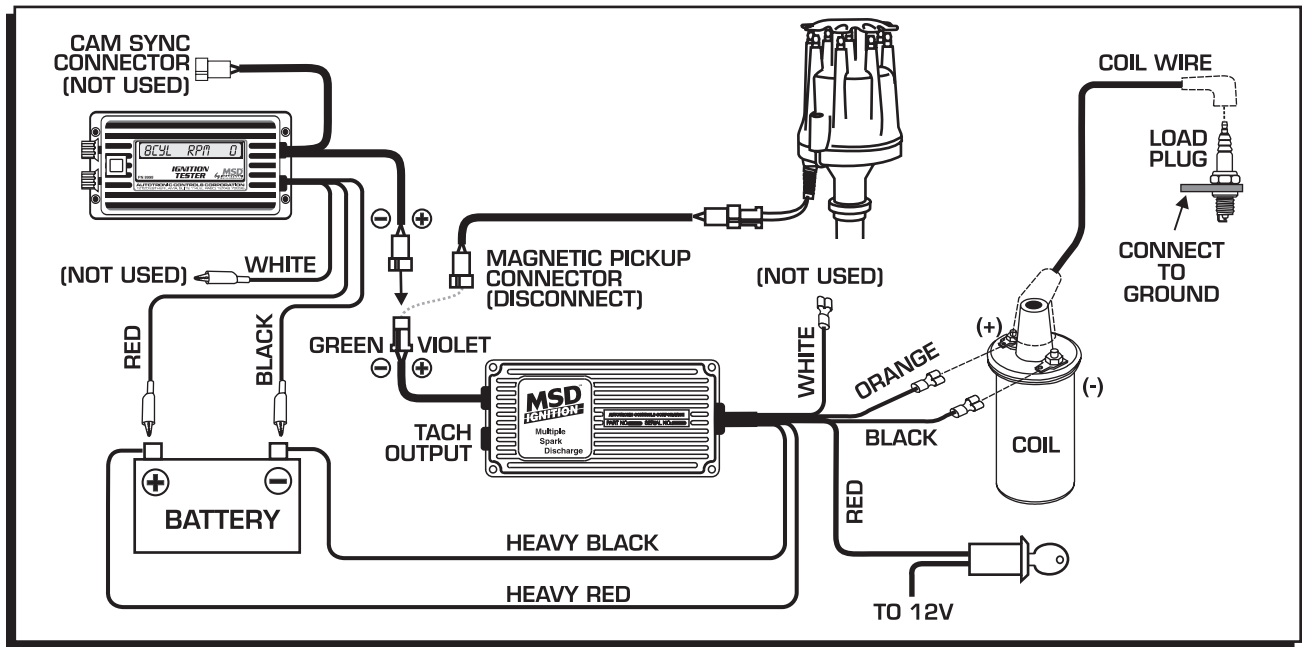


Figure 4 Testing an MSD 6 Series Through the Mag Pickup.

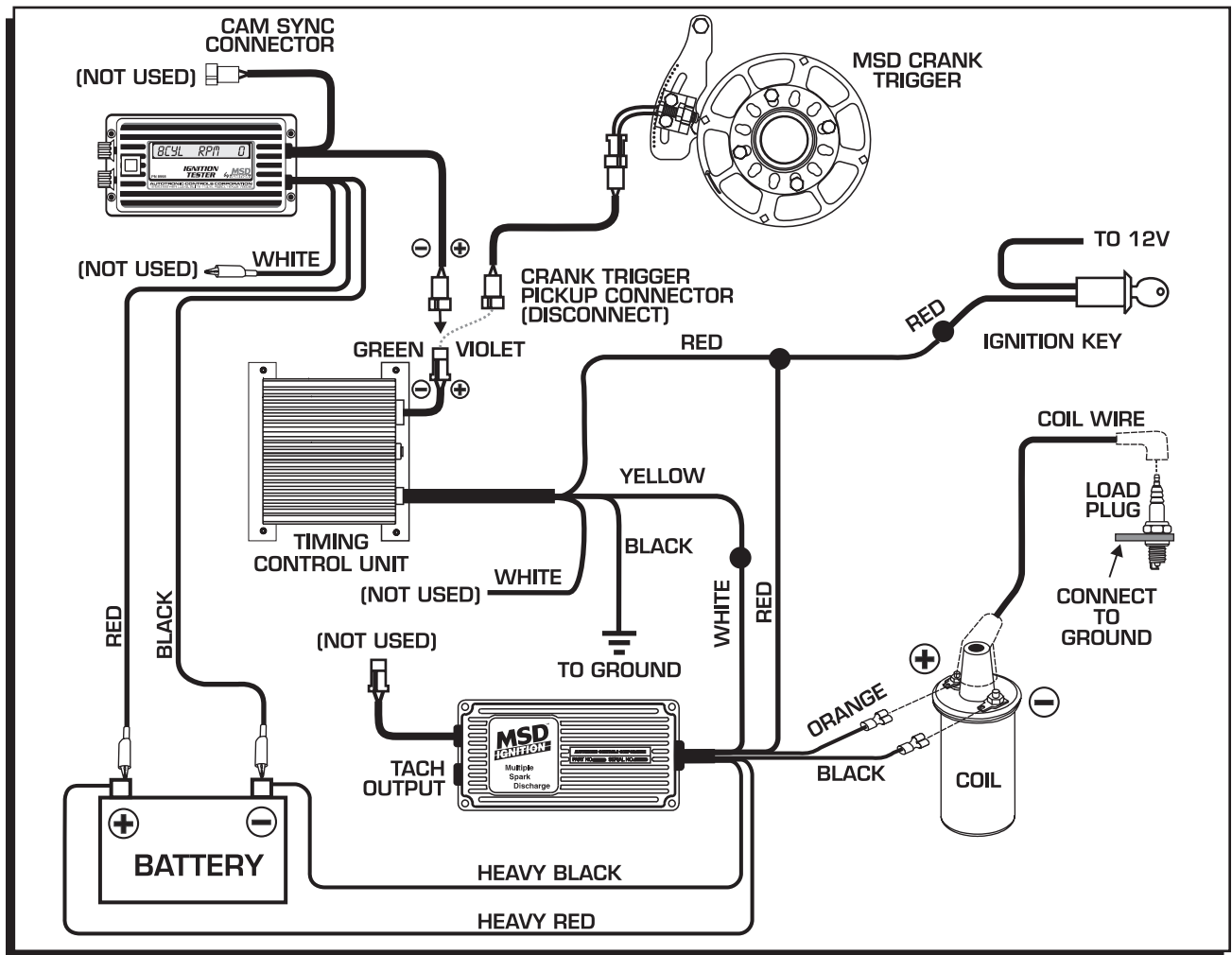


Figure 5 Testing an MSD 6 Series with a Timing Control.

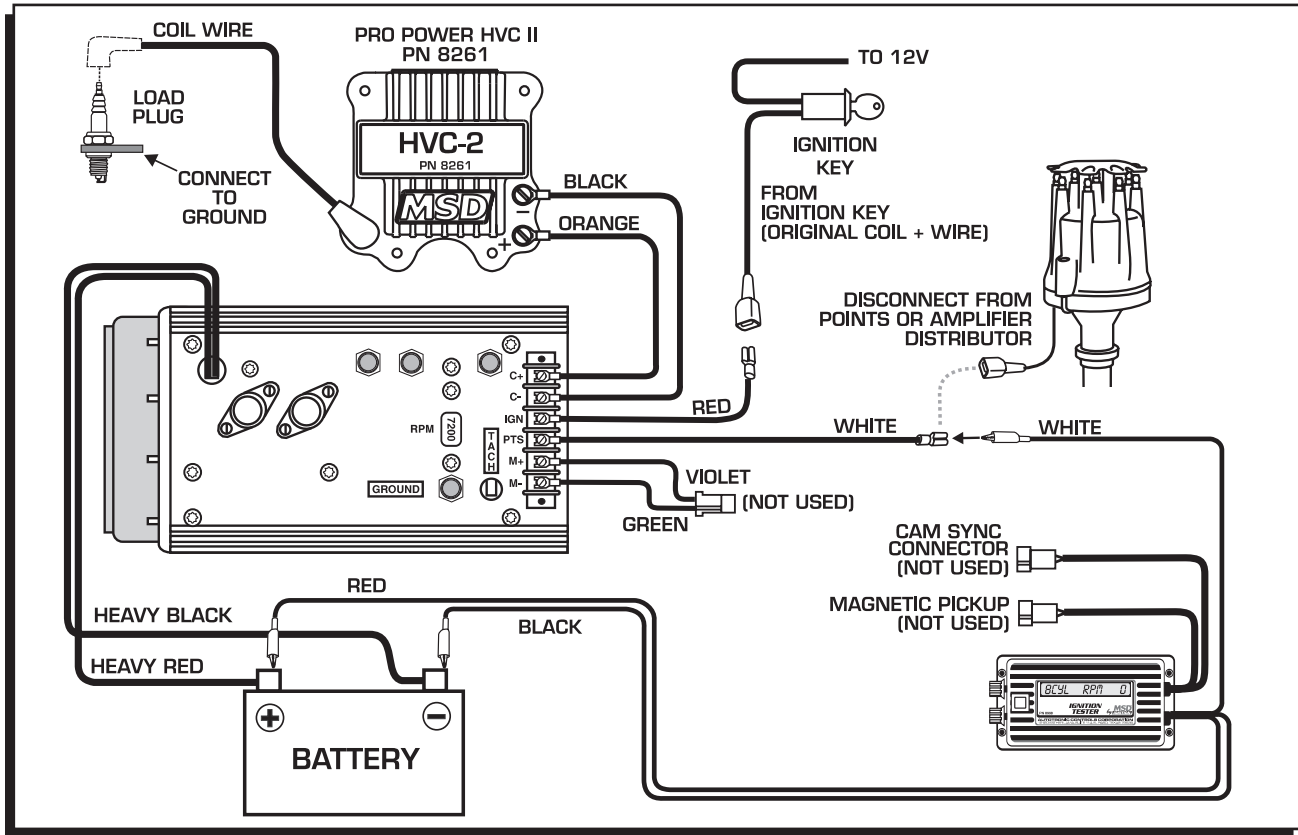


Figure 6 Testing an MSD 7 Series Ignition Through the White Wire.

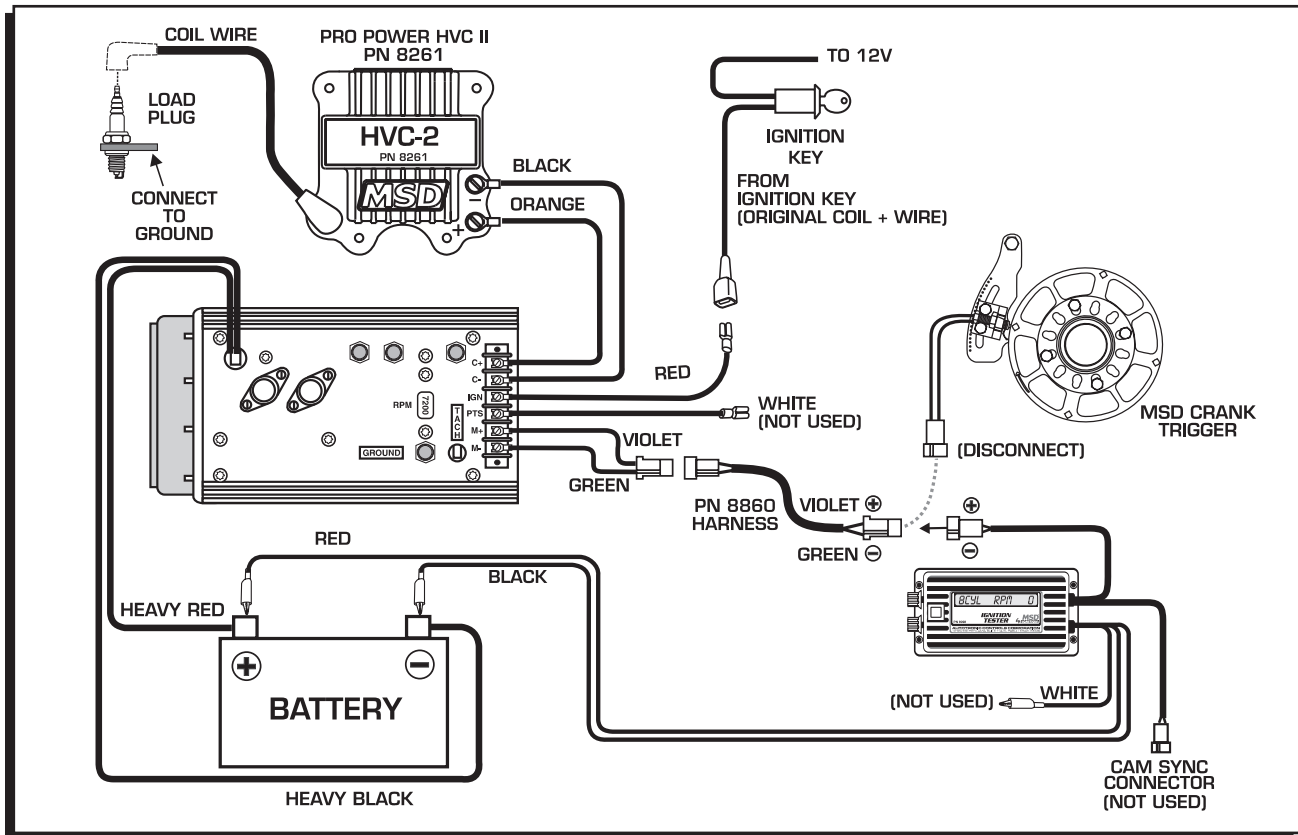


Figure 7 Testing an MSD 7 Series Ignition Through the Mag Pickup.

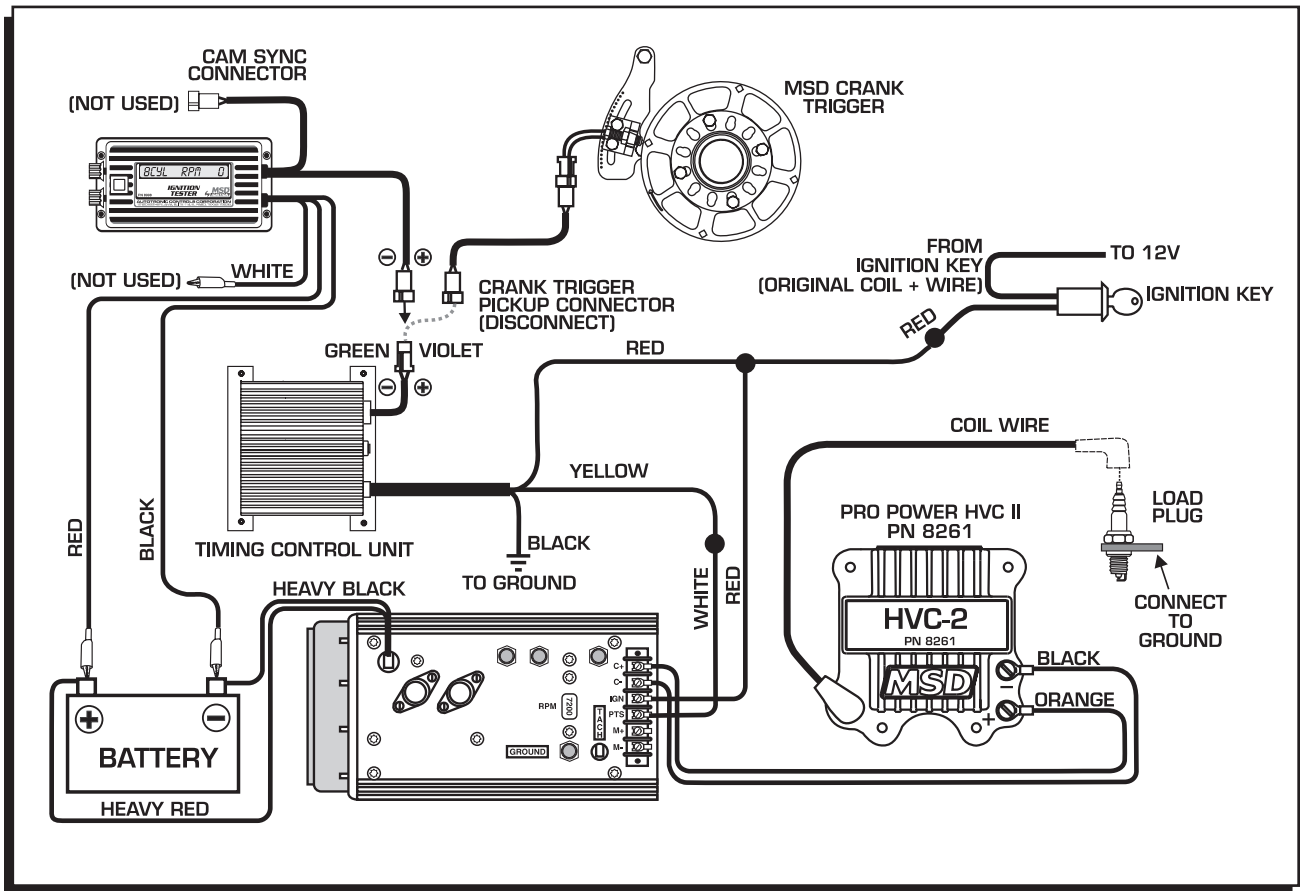


Figure 8 Testing an MSD 7 Series with a Timing Control.

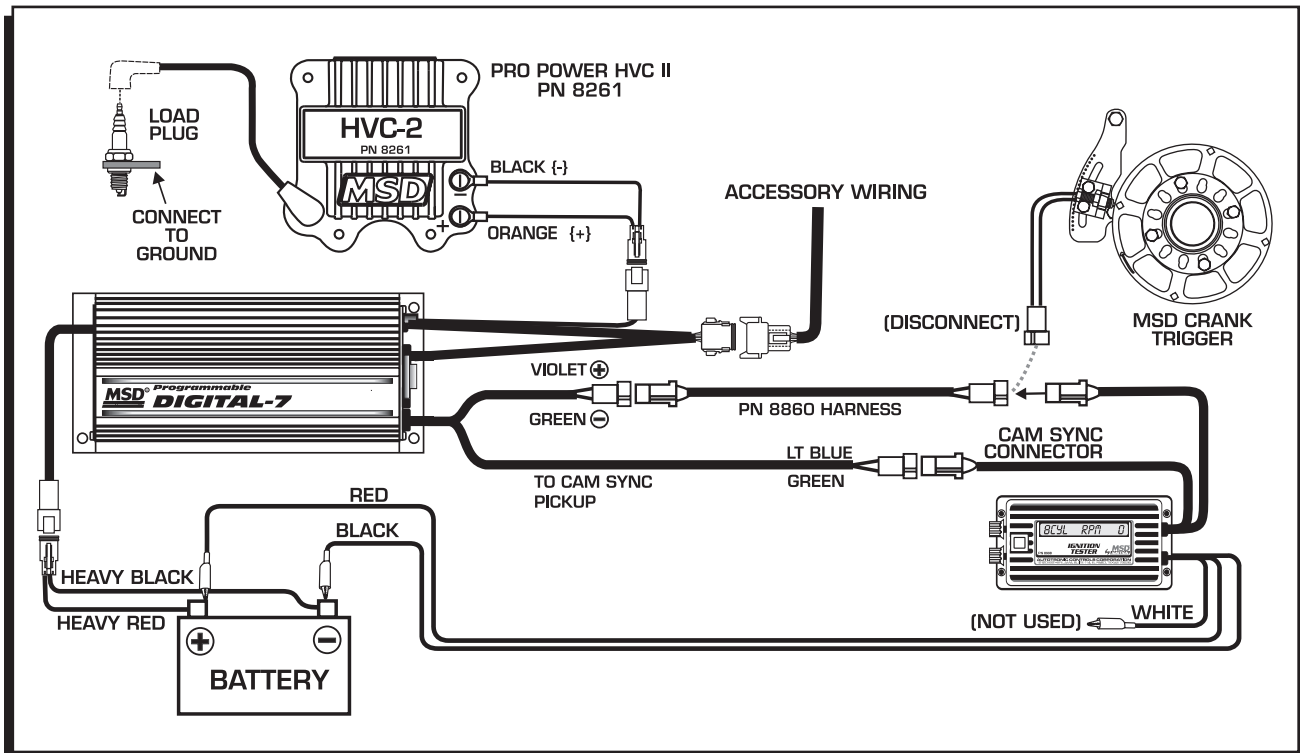


Figure 9 Testing an MSD Programmable 7 Series Initiation.

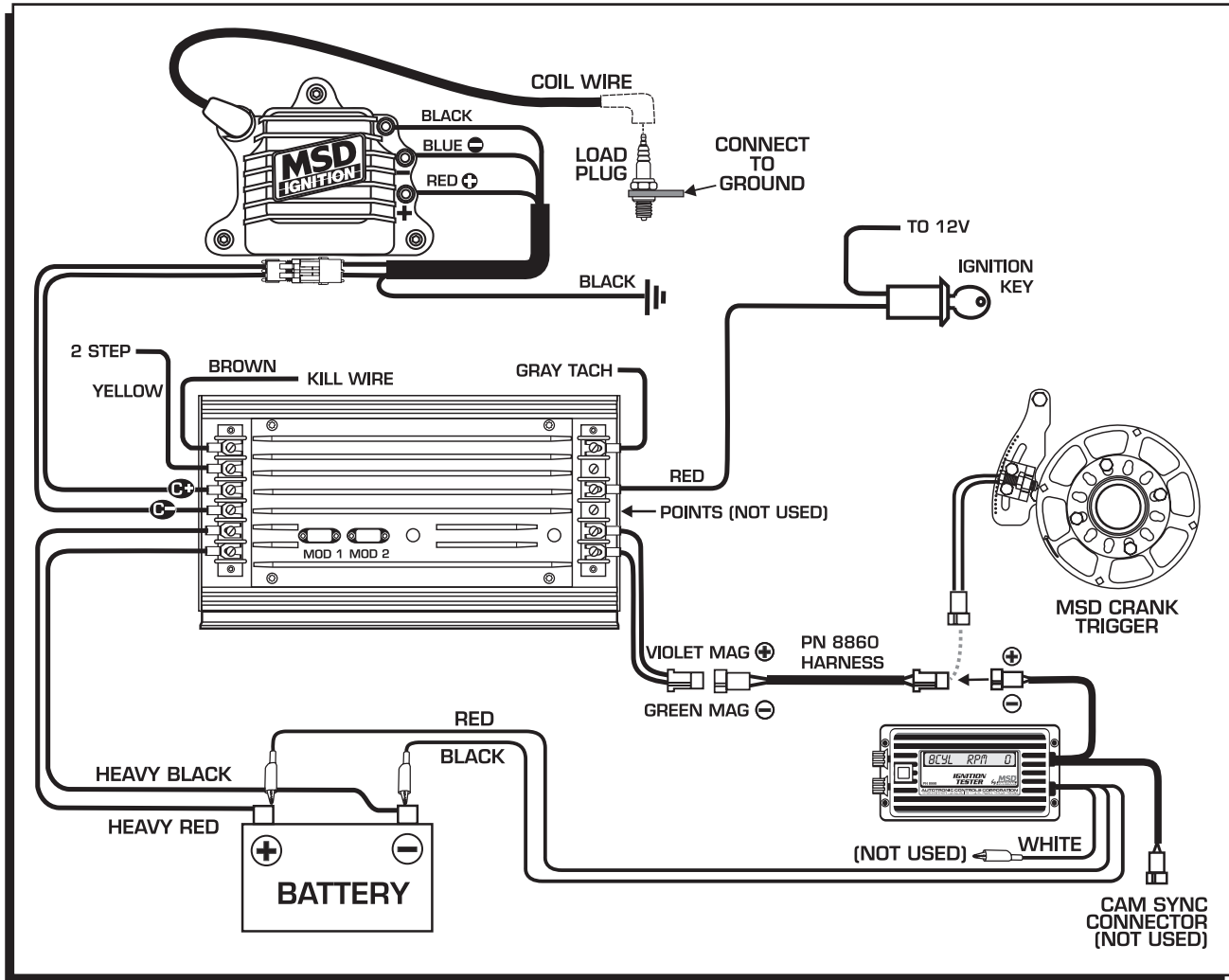


Figure 10 Testing an MSD 10 Plus Ignition.

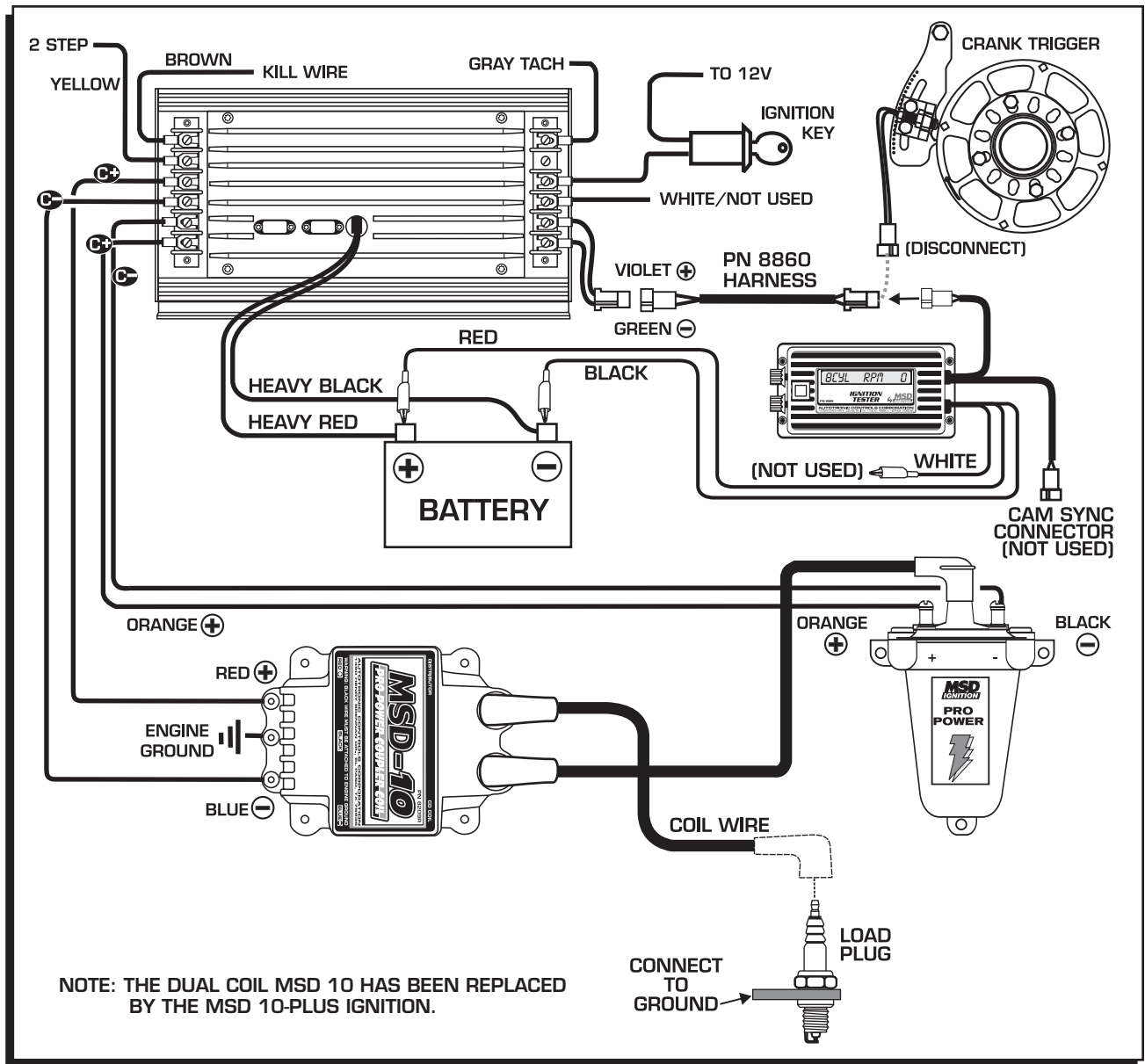


Figure 11 Testing a Dual Coil MSD 10 Ignition.

## TIPS & TROUBLESHOOTING:

### No spark after Tester is connected:

- Inspect the wiring of the tester. Make sure you have a good ground and 12 volt source.
- Check to make sure you have the correct testing program for your application.
- Swap another coil in and repeat the test. If spark occurs, the coil is at fault.