



## 12 & 6-volt Negative Ground Module Test

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1. Connect the Ignitor plate to the battery negative terminal.
2. Connect the red Ignitor wire to the battery positive terminal.
3. Attach the black lead from the voltmeter to the Ignitor black wire.
4. Attach the red lead from the voltmeter to the Ignitor red wire.
5. Rotate the magnet sleeve in front of the module; the meter should fluctuate between battery voltage and 0 volts.
6. A constant measurement indicates that the power transistor or hall cell may have failed.

## 6 & 12 VOLT NEGATIVE GROUND TESTS

(DO NOT LEAVE IGNITION SWITCH ON WITH ENGINE OFF - IGNITOR WILL OVERHEAT AND FAIL)

### Grounds:

- Ignitor "MUST" be grounded properly.
- Make sure that your breaker plate is grounded to the distributor housing
- Re-attach original ground strap from breaker plate to distributor housing, if equipped.
- Distributor Housing needs to be grounded to engine or intake.
- Check contact surface area of distributor "Hold Down Bracket" for proper ground.

VOLTAGE TESTS				
	6 Volt System		12 Volt System	
	Minimum	Maximum	Minimum	Maximum
Ignition Switch "ON"	5.2	N/A	8.0	N/A
Cranking	5.2	N/A	8.0	N/A
Engine Running	N/A	9.0	N/A	16.0

1. Do not disconnect wires from ignition coil.  
 2. Use jumper wire (With alligator clips on both ends)  
 3. Connect jumper wire from negative (-) side of coil to a good engine ground.  
 4. Connect volt meter red lead to positive (+) side of coil and black lead to engine ground.  
 5. See chart above for specifications.

**Note: Low voltage can be caused by poor connections, poor contacts in the ignition switch, and or a resistor wire in the wiring harness (Factory Installed)**

IGNITION COIL TEST & SPECIFICATIONS				
	6 Volt System		12 Volt System	
	Minimum	Maximum	Minimum	Maximum
1, 2 & 3 CYL	1.5 ohms	2.0 ohms	3.0 ohms	4.5 ohms
4 & 6 CYL	1.5 ohms	2.0 ohms	3.0 ohms	4.5 ohms
8 & 12 CYL	0.6 ohms	2.0 ohms	1.5 ohms	4.5 ohms

1. Remove all electrical wiring from ignition coil (coil must be tested by itself).  
 2. Connect the red ohm meter lead to the positive (+) side of the coil.  
 3. Connect the black ohm meter lead to the negative side of the coil.  
 4. Check ohm meter readings for proper coil resistance and make sure that it meets our minimum specifications or an external resistor must be added.

**Note: Do Not Remove Ballast Resistor or Resistor Wire when using a coil that does not meet our minimum ohm specifications (Permanent damage to Ignitor will occur).**

### OTHER CHECKS:

- Check sticker on the backside of module "Ignitor by PerTronix" If the Sticker is shriveled up, wrinkled, cracked, or if you see any burn marks on that side of module the unit over heated and failed for various reasons.
- **We recommend suppression or carbon core type spark plug wires.**
- If you're using Part #1281 or 91281 (only), make sure that module and magnet sleeve are level with each other on top.