

# HET Installation Instructions

Applicable to Wisconsin TRA-12D & S-14D Engines equipped with CDI

Before installation, be sure that the box containing the HET trigger module is labeled with the appropriate Wisconsin model number or CIRCLED above. TRA12D & S14D modules are calibrated differently.

Use the wiring diagram on the reverse side of this document to properly connect and mount the HET (Hall-Effect-Trigger) module. After mounting the module, use an ohm meter to confirm that the mounting ring of the module to the negative post of the battery measures zero ohms. The paper bearing-spacers between the bearing plate and the block can produce a floating ground. A floating ground may allow the module to work for some time, yet ultimately cause permanent failure.

This module has been designed and calibrated to allow drop in installation, without the need to set the timing. Due to variances in the strength of magnets used in various flywheels, it is still very important to verify that the timing of the engine is accurate. Improper timing will result in sub-standard performance and can in fact cause serious damage to your engine.

## **TO PREVENT PERMANENT DAMAGE to the HET Module:**

**NEVER** apply power to the black HET wire

**NEVER** use the original ignition coil or coil mounting location on top of the engine

**NEVER** mount the new ignition coil on the engine – **MOVE AWAY FROM HEAT & VIBRATION**

**ALWAYS** make sure that the quick-connect coil connections are tight

After installing the module under the flywheel but prior to installing the flywheel nut, use the following procedure to confirm that your engine is timed properly. The sparkplug must not be installed, yet must be grounded on the engine block where it can be easily seen. Be certain that there are no fuel fumes present that could accidentally ignite.

- 1) Locate the timing mark on the flywheel
- 2) Locate the window in the back right-hand side of the blower housing sheet metal
- 3) With the flywheel in place and the ignition on, slowly turn the flywheel clockwise
- 4) You should witness a single spark for each revolution of the flywheel
- 5) Now repeat the process and pay close attention to precisely when the spark occurs
- 6) When the spark occurs, the timing mark should be nearly aligned in the window\*

\* Minor differences of plus/minus 1/16" are permissible. This applies to the TRA12D models only. S12D and S14D engine timing marks may be up to 1/8" prior to the being within the window, again with a plus/minus 1/16" tolerance. If the timing is incorrect, slight adjustments may be made by pivoting the module about the mounting bolt.

**Important:** It is **CRITICAL** that the ignition be turned off before any timing adjustments are made. Failure to do so can result in **PERMANENT DAMAGE** to the HET module.

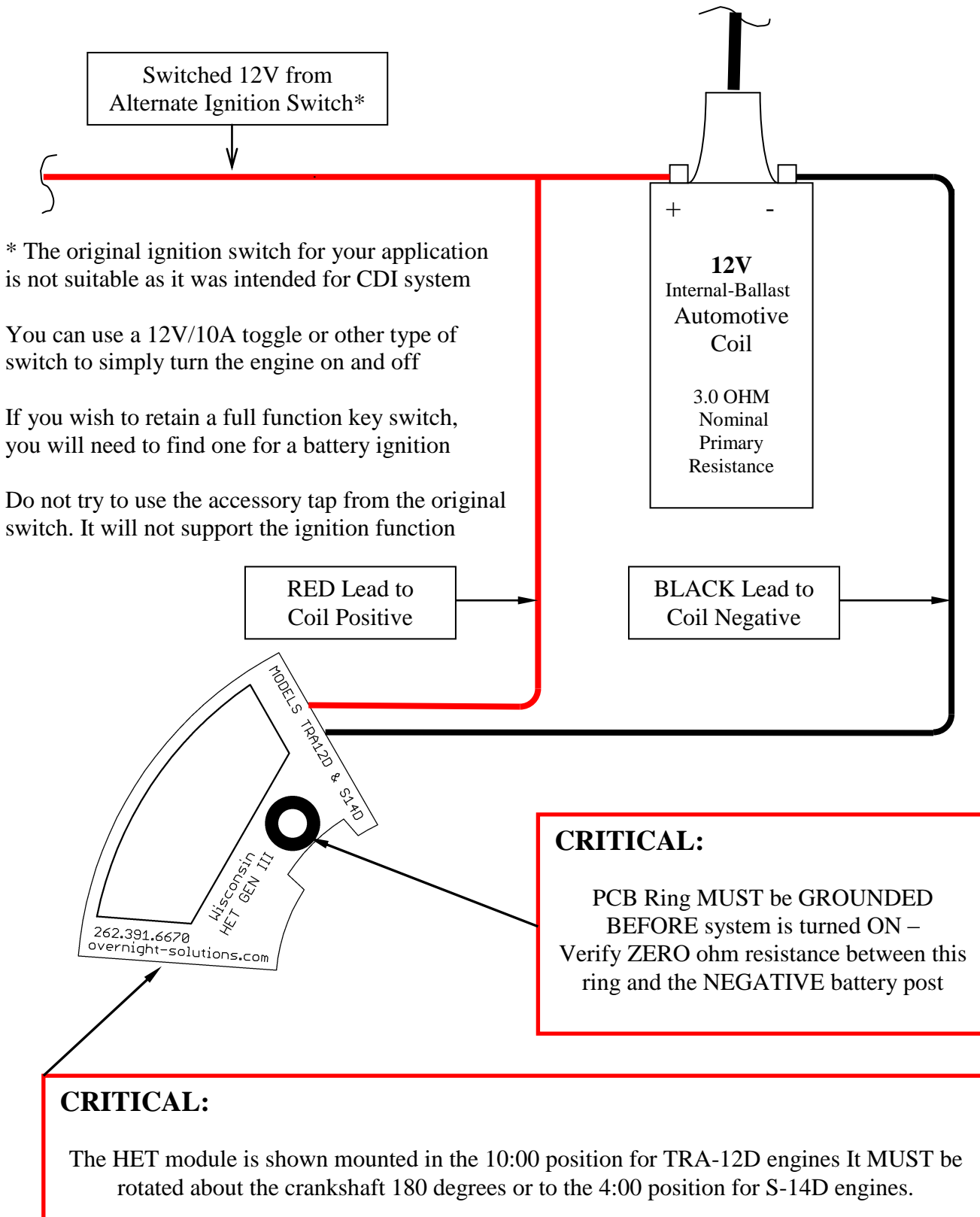
**NOTICE:** If you are not absolutely certain that you can perform these operations **SAFELY**, consult a professional mechanic

## **Overnight Solutions**

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# Wisconsin HET Wiring Diagram

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