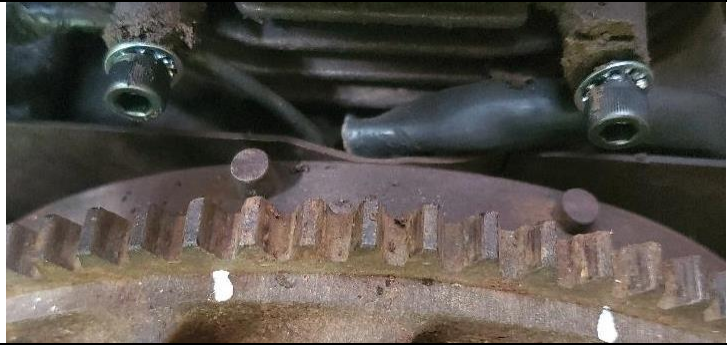
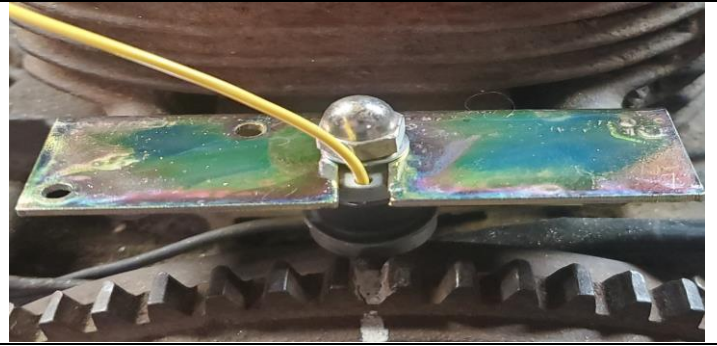


GMCT 12V Ignition Installation instructions

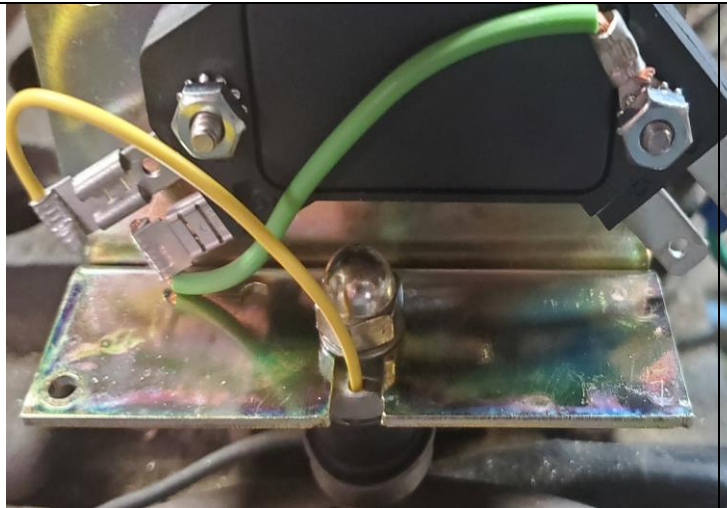
Replaces 610748/610855/610906 OEM CDI Systems



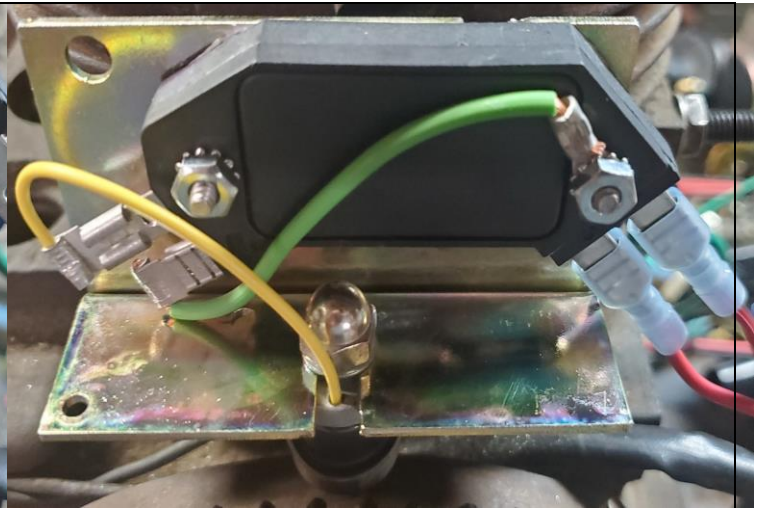
Install (2) ¼-20 socket head fasteners & star washers
Mark Long (TDC) & Short (ADV) pins for later use



Place the Magnetic pickup over the fasteners



Slip the GMCT plate behind it and loosely tighten the fasteners.
Connect YELLOW magnet pick-up lead as shown



Gap 0.010" Long pin to magnetic pick-up – Tighten the fasteners
- Connect RED (Bottom) & BLACK (Top) leads

- Wiring Diagram is on the reverse side of this page –

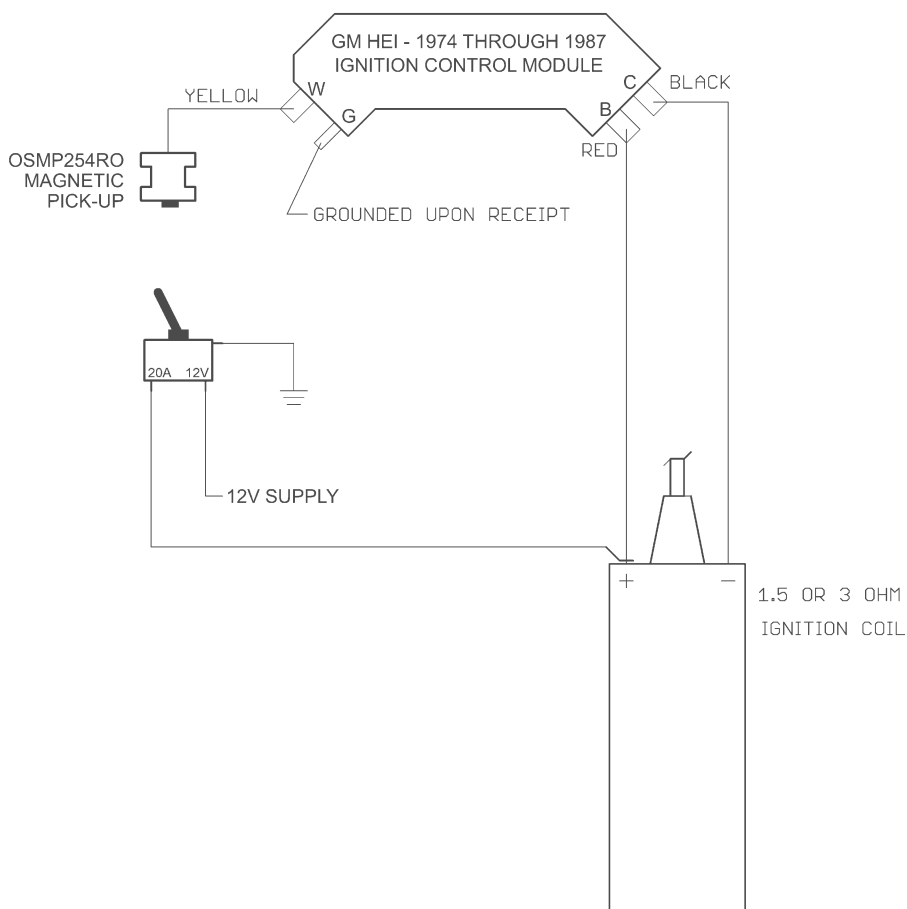
- 1) Disconnect the Negative terminal from the battery, then remove the blower housing
- 2) Verify that the trigger pins on the flywheel are in good shape – replace if not – distorted or beat up pins won't work
- 3) Remove the OEM coil assembly and install the (2) 1/4" socket head fasteners and internal star lock washers
- 4) Mark the relative positions of the long (TDC) and short (ADVANCE) trigger pins for potential later use
- 5) Place the Magnetic pickup over the fasteners– slip the GMCT plate behind it and loosely tighten the fasteners
- 6) Set the gap between the long pin and the magnetic pick-up to 0.010" – Tighten the fasteners
- 7) Route the associated bonded-pair wires through the original spark plug opening in the blower housing using the grommet
- 8) Mount the Ignition Coil away from heat & vibration within reach of the spark plug and the magnetic pick-up leads
- 9) Install the LED toggle switch where convenient. Ground the QC tab for LED operation – wire & terminals are not included
- 10) Connect the load side of the switch to the QC tab at the back end of the Ignition Coil - wire & terminals are not included
- 11) Connect the source side of the switch to the positive side of the battery – fuse if desired – wire, terminals & fuse are not included
- 12) Using cable ties or other means to secure all wires associated with the various components
- 13) Reconnect the Negative battery terminal – Start the engine and verify proper performance

If the engine fails to develop power, the marked trigger pins may be used to verify proper timing if needed. Take this step ONLY after considering other issues such as carburetion or other related fuel issues, valve adjustment, etc.

Overnight Solutions LLC

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GMCT WIRING DIAGRAM



NOTE:

- 1) TOGGLE SWITCH MUST BE GROUNDED TO LIGHT
- 2) IF LED REMAINS ON, THE SUPPLY & LOAD ARE REVERSED
- 3) TOGGLE SWITCH CONNECTIONS ARE CUSTOMER SUPPLIED
- 4) SET MAGNETIC PICK-UP GAP TO 0.010" FROM THE LONG TRIGGER PIN
- 5) IF THE GM HEI IS EVER REPLACED, MAGNETIC PICK-UP GAP MAY NEED TO BE INCREASED ●

- THROUGH ALL OF MY BENCH TESTING, I HAVE SEEN MANY PARAMETRIC DIFFERENCES IN THE SENSITIVITY (VOLTAGE THRESHOLD) REQUIRED TO TRIGGER THE SPARK EVENT. THE GAP ON SEVERAL UNITS IS ONLY 0.010", WHEREAS SOME NEEDED TO BE INCREASED TO 0.060" TO AVOID PREMATURE TIMING ADVANCEMENT RESULTING IN KICK BACK WHEN STARTING

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