

**American  
Autowire**

www.americanautowire.com 856-933-0801

Classic Update Series

bag **J**

1961-64  
Impala

ENGINE KIT

**510066**

92968954 instruction rev 2.0 8/22/2011

TEMPORARILY, PLUG THE MAIN BULKHEAD CONNECTOR FROM THIS KIT INTO THE MATING CONNECTOR ON THE DASH BULKHEAD CONNECTOR (LOCATED UNDER THE MASTER CYLINDER) Note: This will be unbolted to install the front light harness later.

**BULKHEAD CONNECTOR WIRES:**

- |           |                       |   |
|-----------|-----------------------|---|
| RED       | (12 V BATTERY)        | Route this wire to the starter solenoid and cut to length. Install terminal B and solder. Plug into connector N.  |
| BROWN     | (fuse link wire)      | Connect to the battery stud on the starter solenoid and plug the other end into the RED wire above.   |
| PURPLE    | (STARTER SOLENOID)    | Route to the starter solenoid and cut to length. Install rubber sleeve E and ring terminal D. Connect to the "S" terminal on the solenoid.  |
| DARK BLUE | (OIL PRESSURE SENDER) | Connect this wire to the oil pressure sending unit using terminal P or terminal C together with connector A.  |
| ORANGE    | (HEAT / AIR)          | If using stock or after-market air conditioning, remove this wire. If using a stock heater only system, route this wire to the heater blower and cut to length, install terminal C and connector K (61, 62, 64) or slide through boot H, install terminal J (63) and plug into the blower unit.   |
| PINK      | (12 V IGNITION)       | If using an HEI distributor or after-market ignition system which requires a 12 volt feed:<br>Route the PINK wire to the coil and trim to length. Install terminal C and connector G, and plug into the distributor cap BAT location.<br>If using a points type ignition system which requires reduced voltage:<br>Route the PINK wire to the ignition feed side of a ballast resistor (not included). Connect the loose piece YELLOW wire to the R terminal on the starter and connect the other end to the coil side of the ballast resistor (not included). Connect a piece of left over PINK wire to the coil side of the ballast resistor and route to the distributor coil positive (+) side. |
| WHITE     | (COIL-TACH)           | Route this wire to the coil and trim to length. If using an HEI distributor, terminal B and connector F are included for connection to the TACH location. If using a conventional coil, terminal P is included for connection to the negative (-) side of the coil.   |
| WHITE     | (WIPER 12 VOLT FEED)  | Route this wire to the wiper motor, trim to length, install terminal C and plug into connector A.   |

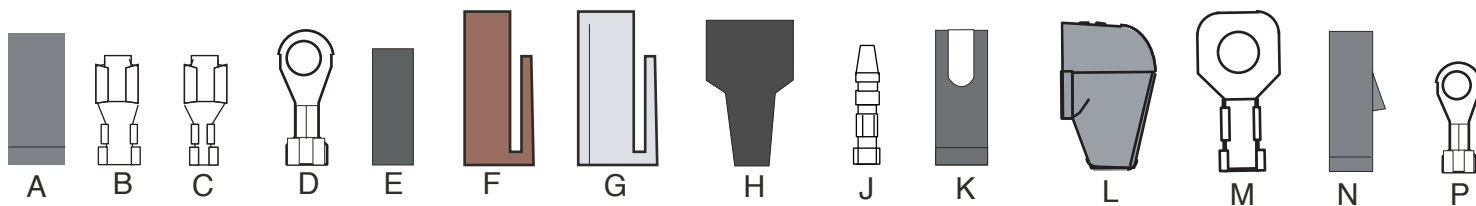
**ALTERNATOR:**

- |           |                     |   |
|-----------|---------------------|---|
| HEAVY RED | (AMERICAN AUTOWIRE) | Connect the blue fuse-link wire to the battery stud on the starter solenoid. Route the other end to the alternator and trim to length. Install boot L and terminal M and connect to the battery stud on the alternator.   |
| SMALL RED |                     | Send the ring terminal end of this wire through boot L (as shown on sheet 1) and connect to the battery stud on the alternator. Do not plug the connector into the alternator yet. The brown exciter wire will need to be added to this connector when the front light harness wires are installed. |

**REMAINING LOOSE WIRES:** These wires will be used only if you are using an electronic speedometer or an electric choke. Plug them into the main engine connector as shown on page 1 of this instruction sheet and route them as outlined below.

- |                      |   |
|----------------------|---|
| PURPLE/WHITE (POWER) | Route this wire to the vehicle speed sensor and connect to the 12 volt power lead. (NOTE: This wire can also be utilized as an electric choke feed wire if not being used for an electronic speedometer.) |
| PURPLE (SIGNAL)      | Route this wire to the vehicle speed sensor and connect to the signal lead.   |
| YELLOW (GROUND)      | Twist this wire with the purple signal lead wire above to assure proper shielding. Connect this wire to the vehicle speed sensor ground lead.   |

Once the main connector has had all of it's wires plugged in, the connector cavities should be sealed with dielectric grease on the terminals. Also, to assure a moisture resistant seal, silicone can be applied to seal the outside of the connector.



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