

**American
Autowire**

bag **J**

1964-67 GTO

Classic Update Series

ENGINE KIT

510191

92969487 instruction rev. 0.0 9/28/2010

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 (12V BATTERY) Route this wire to the starter solenoid, cut to length, install terminal B and solder. Plug completed wire 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 from above.
- PURPLE (STARTER SOLENOID) Route this wire to the starter solenoid, cut to length, install rubber sleeve E and ring D. Connect to the 'S' terminal on solenoid.
- DK BLUE (OIL PRESSURE SENDER) Route this wire to the oil pressure sender, cut to length, install terminal P or terminal C and connector K, then attach to sending unit.
- DK GREEN (WATER TEMP SENDER) Route this wire to the water temperature sender, cut to length, install terminal P or terminal C and connector K, then attach to sending unit.
- ORANGE (HEAT / AIR) If using after-market air conditioning, remove this wire. If using a stock heater only system, route this wire to the heater blower, cut to length, install terminal C and connector A , then plug into the blower unit.
- PINK (12V IGNITION) **If using an HEI distributor, or after-market ignition system which requires a 12V feed:**
Route the PINK wire to the coil "+", trim to length, install terminal C and connector G, then plug onto distributor cap BAT location.
If using a points type ignition system which requires reduced voltage:
Route the PINK wire to the ignition feed side of the ballast resistor. 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 the to the distributor coil "+" side.
- WHITE (COIL-TACH) Route this wire to he coil and trim to length. if using an HEI distributor, terminal B and connector F are included for connection. Plug onto the TACH location on an HEI distributor or the "-" side of coil..

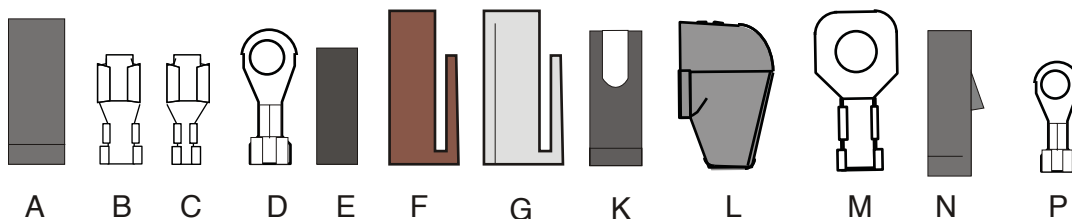
ALTERNATOR:

- 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 alternator. Do not plug the connector into the alternator yet as the exciter wire will be added to this white connector in the next step.
- BROWN (ALTERNATOR IGN) Route this wire to the alternator, cut to length, install terminal C and plug the completed wire into the empty cavity on the white alternator connector. You may now plug the completed connection into the alternator.

REMAINING LOOSE WIRES: These wires will only be used only if you are using an ECM module which is located in the engine compartment, an electronic speedometer, electric choke, or need a keyed 12 volt feed for an automatic transmission kickdown switch.

- RED (12V BATTERY) Used on ECM module which is mounted in the engine compartment. Plug this wire into the firewall bulkhead connector, at the location shown on sheet 1. Route the other end to the ECM harness, battery feed in.
- PINK (12V IGNITION) If used for ECM module which is mounted in the engine compartment, plug this wire into the firewall bulkhead connector, at the location shown on sheet 1. Route the other end to the ECM harness, ignition feed in. If used on vehicles which have an electronic speedometer with a 3 wire sender, route this wire to the vehicle speed sensor and connect to the 12 volt power in lead. If used on a car with an electric choke, connect this wire to the choke thermostat.
- ORANGE If used on a car with an automatic transmission that requires a 12 volt lead to downshift the transmission and it is operated by a gas pedal mounted downshift switch on the inside of the car, connect this wire to the transmission downshift solenoid using terminal C and connector A. If your switch is mounted on the carburetor, route this wire to the transmission downshift switch, cut to length and connect it to the switch using terminal C and connector A . Connect the remaining portion of the wire to the other side of the switch using terminal C and connector A , continue that wire down to the transmission downshift solenoid and connect it there using terminal C and connector A.
- PURPLE Used on vehicles which have an electronic speedometer. Route this wire to the vehicle speed sensor and connect to the signal lead.
- YELLOW Used on vehicles which have an electronic speedometer. Twist this wire with the purple wire above to assure proper shielding. Connect this wire to the vehicle speed sensor ground lead.

Once the main connector has all of it's wires plugged in, the connector cavities should be sealed with di-electric 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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