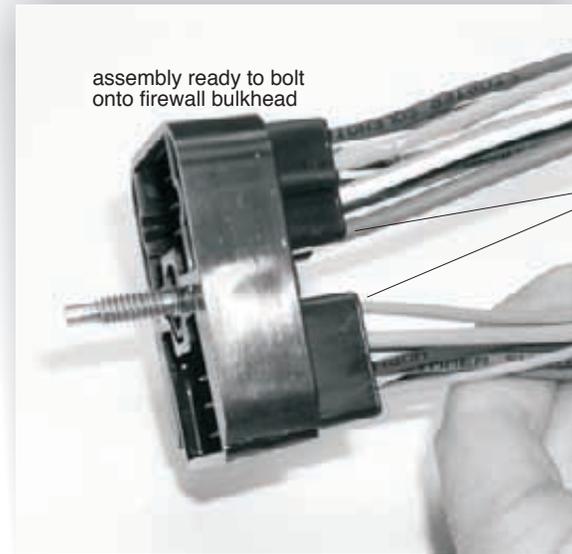
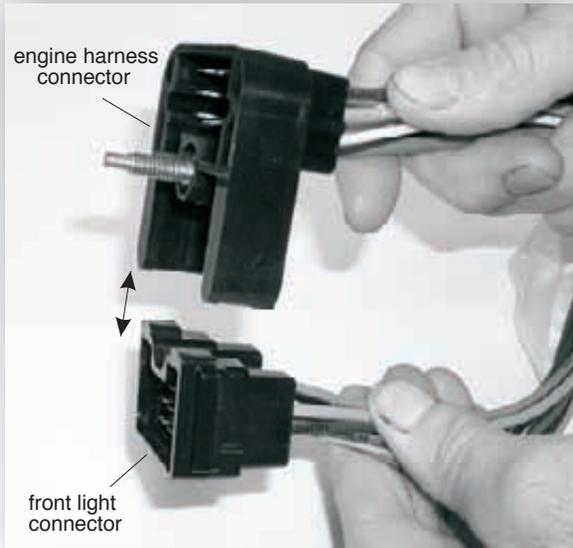


# Classic Update Series



The bulkhead connector from this front light kit must snap into the mating engine connector (bag J), as shown. After snapping together, then bolt the assembly into the dash harness firewall connector using the attached bolt.

Look!



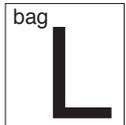
American Autowire also sells factory OEM style harness wrap. this is the same stuff used on original Impala harnesses! If you want that OEM look with your Classic Update wiring system, then give us a call and order p/n R0067108.



**American  
Autowire**

[www.americanautowire.com](http://www.americanautowire.com) 856-933-0801

Classic Update Series  
1968-1972 Pontiac  
GTO and  
1969 Firebird



FRONT LIGHT KIT

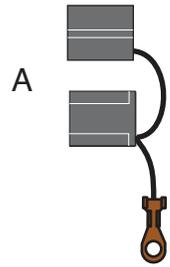
**510544**

92970642 Rev 1.0 11/4/2015



## 1968 GTO, Tempest, Le Mans

**NOTE:** See page 8 for directions regarding the connection of the Yellow, Purple, and Purple/White Stripe electric speedo wires.



**A** Assemble the bulkhead connector from this kit to the bulkhead connector from the engine kit (510543, bag J) and then bolt them to the main firewall bulkhead. After all wires are installed from this kit, apply die-electric grease to the terminals and silicone sealer to the outside of the connectors as a moisture seal.

### FRONT LIGHT WIRING:

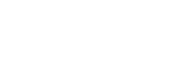
**Note 1:** We have included new parking lamp pigtails U (LH with lt. blue wire and RH with dk. blue wire) for you to connect to your parking lamp assemblies just as original. Plug the bare male terminals from these pigtails into connector F as shown on page 2. These pigtails will plug onto mating connectors H to complete the front parking/turn signal lamp circuits below. Attach the ring terminals on these U assemblies to a good known chassis ground to complete the parking/turn signal lamp circuits.



**B** LT BLUE

LH Turn

Route this wire to the LH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 2.



DK BLUE

RH Turn

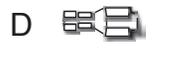
Route this wire to the RH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 2.



BROWN

Parking Lights

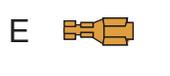
Route this brown wire to the LH side marker lamp area, trim to length, double it with the cut off portion, install terminal E, and plug into connector G as shown on page 2. Route the remaining portion of the brown wire to the LH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the light blue wire from above. Route the remaining portion of the brown wire to the RH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the dark blue wire from above. Route the remaining portion to the RH side marker lamp area, trim to length, install terminal D and plug into connector G as shown on page 2. You can now plug the connectors H onto the parking lamp pigtails U from above to complete your parking/turn signal lamp connections, and connectors G onto your side marker lamps to complete those circuits.



TAN

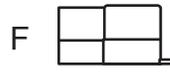
Headlight  
Low Beam

**Note 2:** We have included new headlight pigtails A (LH and RH) complete with ground wires for you to connect to your headlight lamp assemblies. You will plug the tan and lt. green headlight wires into these 2 assemblies below. Attach the ring terminals on these pigtail assemblies A to a good known chassis ground to complete the headlight circuits.



TAN

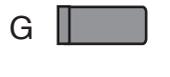
Route this wire to the driver side outer headlight and trim to length. Double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 2. Route the remaining portion of this TAN wire to the passenger side outer headlight and trim to length. Install terminal C and plug into the 3-way connector on the other headlight pigtail A as shown on page 2.



LT GREEN

Headlight  
Hi Beam

Route this wire to the driver side outer headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 2. Route the remaining portion of this lt green wire to the driver side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on headlight pigtail A as shown on page 2. Route the remaining portion of this lt green wire to the passenger side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on the other headlight pigtail A as shown on page 2. Route the remaining portion of this lt green wire to the passenger side outer headlight, trim to length, install terminal C, and plug this terminal into the 3-way connector on the other headlight pigtail A as shown on page 2.



BLACK

Ground

The ground wires that are part of the headlight A and parking light U pigtail assemblies are addressed in "Notes 1 and 2" above.



DK GREEN

Horn

Route this wire to one horn, trim to length, double it with the cutoff portion, install terminal E, and plug this terminal into connector G as shown on page 2. Route the remaining portion of this dk green wire to the second horn, trim to length, install terminal D and plug into connector G as shown on page 2. Plug the two connectors G onto each of your horns to complete the horn circuit.



### OTHER WIRING:

ORANGE

(no printing)

Route this wire to the electric fan relay and connect per the manufacturer's instructions.



BLACK/ORANGE

(no printing)

**NOTE:** We recommend that this wire be used as the "key on" trigger wire for the electric fan relay.



BLACK/WHITE

(no printing)

This is the feed wire for the optional RH corner lamp. If your car has this option, plug this black with orange stripe wire assembly L into the main bulkhead connector in the location shown on page 2, route the grommet thru the front sheet metal as original, then connect this wire to your RH cornering lamp assembly.



ORANGE

(no printing)

This is the feed wire for the optional LH corner lamp. If your car has this option, plug this black with white stripe wire assembly M into the main bulkhead connector in the location shown on page 2, then connect this wire to your LH cornering lamp assembly.



ORANGE

(no printing)

This wire is for the Turbo 400 kickdown solenoid. If your car has this option, plug this orange wire into the main bulkhead connector in the location shown on page 2, then connect this wire to your Turbo 400 kickdown solenoid.



## 1969 GTO, Tempest, Le Mans and 1970 GTO

**NOTE:** See page 8 for directions regarding the connection of the Yellow, Purple, and Purple/White Stripe electric speedo wires.

Assemble the bulkhead connector from this kit to the bulkhead connector from the engine kit (510543, bag J) and then bolt them to the main firewall bulkhead. After all wires are installed from this kit, apply die-electric grease to the terminals and silicone sealer to the outside of the connectors as a moisture seal.

### FRONT LIGHT WIRING:

**Note 1:** We have included new parking lamp pigtails U (LH with lt. blue wire and RH with dk. blue wire) for you to connect to your parking lamp assemblies just as original. Plug the bare male terminals from these pigtails into connector F as shown on page 4. These pigtails will plug onto mating connectors H to complete the front parking/turn signal lamp circuits below. Attach the ring terminals on these U assemblies to a good known chassis ground to complete the parking/turn signal lamp circuits. We have also provided side marker pigtails K for you to connect into your side marker lamp assemblies. You will plug the brown wires below into these lamp pigtails, then attach the ring terminals on these assemblies K to a good known chassis ground to complete the side marker circuit.

**LT BLUE** LH Turn Route this wire to the LH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 4.

**DK BLUE** RH Turn Route this wire to the RH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 4.

**BROWN** Parking Lights Route this brown wire to the LH side marker lamp area, trim to length, double it with the cut off portion, install terminal Q, and plug into side marker lamp pigtail assembly K as shown on page 4. Route the remaining portion of the brown wire to the LH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the light blue wire from above. Route the remaining portion of the brown wire to the RH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the dark blue wire from above. Route the remaining portion to the RH side marker lamp area, trim to length, install terminal P, and plug into the other side marker lamp pigtail assembly K as shown on page 4. You can now plug the connectors H onto the parking lamp pigtails U from above to complete your parking/turn signal lamp connections, and side marker lamp pigtail assemblies K into your side marker lamps to complete those circuits.

**Note 2:** We have included new headlight pigtails A (LH and RH) complete with ground wires for you to connect to your headlight lamp assemblies. You will plug the tan and lt. green headlight wires into these 2 assemblies below. Attach the ring terminals on these pigtail assemblies A to a good known chassis ground to complete the headlight circuits.

**TAN** Headlight Low Beam Route this wire to the driver side outer headlight and trim to length. Double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 4. Route the remaining portion of this TAN wire to the passenger side outer headlight and trim to length. Install terminal C and plug into the 3-way connector on the other headlight pigtail A as shown on page 4.

**LT GREEN** Headlight Hi Beam Route this wire to the driver side outer headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 4. Route the remaining portion of this lt green wire to the driver side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on headlight pigtail A as shown on page 4. Route the remaining portion of this lt green wire to the passenger side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on the other headlight pigtail A as shown on page 4. Route the remaining portion of this lt green wire to the passenger side outer headlight, trim to length, install terminal C, and plug this terminal into the 3-way connector on the other headlight pigtail A as shown on page 4.

**BLACK** Ground The ground wires that are part of the headlight A, parking light U, and side marker lamp K pigtail assemblies are addressed in "Notes 1 and 2" above.

### OTHER WIRING:

**DK GREEN** Horn Route this wire to one horn, trim to length, double it with the cutoff portion, install terminal E, and plug this terminal into connector G as shown on page 4. Route the remaining portion of this dk green wire to the second horn, trim to length, install terminal D and plug into connector G as shown on page 4. Plug the two connectors G onto each of your horns to complete the horn circuit.

**ORANGE** Electric Fan Route this wire to the electric fan relay and connect per the manufacturer's instructions.

**NOTE:** We recommend that this wire be used as the "key on" trigger wire for the electric fan relay.

**BLACK/ORANGE** (no printing) This is the feed wire for the optional RH corner lamp. If your car has this option, plug this black with orange stripe wire assembly L into the main bulkhead connector in the location shown on page 4, route the grommet thru the front sheet metal as original, then connect this wire to your RH cornering lamp assembly.

**BLACK/WHITE** (no printing) This is the feed wire for the optional LH corner lamp. If your car has this option, plug this black with white stripe wire assembly M into the main bulkhead connector in the location shown on page 4, then connect this wire to your LH cornering lamp assembly.

**ORANGE** (no printing) This wire is for the Turbo 400 kickdown solenoid. If your car has this option, plug this orange wire into the main bulkhead connector in the location shown on page 4, then connect this wire to your Turbo 400 kickdown solenoid.



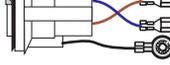
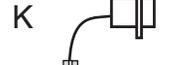
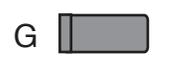
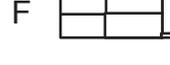
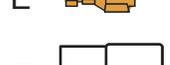
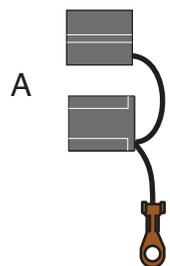
## 1970 Tempest, Le Mans and 1971-72 GTO, Tempest, Le Mans

**NOTE:** See page 8 for directions regarding the connection of the Yellow, Purple, and Purple/White Stripe electric speedo wires.

Assemble the bulkhead connector from this kit to the bulkhead connector from the engine kit (510543, bag J) and then bolt them to the main firewall bulkhead. After all wires are installed from this kit, apply die-electric grease to the terminals and silicone sealer to the outside of the connectors as a moisture seal.

### FRONT LIGHT WIRING:

**Note 1:** We have included new parking lamp pigtails V (LH with lt. blue wire) and W (RH with dk. blue wire) for you to install into your parking lamp housings just as original. Plug the bare male terminals from these pigtails into connector F as shown on page 6. These pigtails will plug onto mating connectors H to complete the front parking/turn signal lamp circuits below. Attach the ring terminals on these V and W assemblies to a good known chassis ground to complete the parking/turn signal lamp circuits. We have also provided side marker pigtails K for you to connect into your side marker lamp assemblies. You will plug the brown wires below into these lamp pigtails, then attach the ring terminals on these assemblies K to a good known chassis ground to complete the side marker circuit.



|   |         |                |   |
|---|---------|----------------|---|
| A |         |                |   |
| B | LT BLUE | LH Turn        | Route this wire to the LH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 6.   |
| C | DK BLUE | RH Turn        | Route this wire to the RH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 6.   |
| D | BROWN   | Parking Lights | Route this brown wire to the LH side marker lamp area, trim to length, double it with the cut off portion, install terminal Q, and plug into side marker lamp pigtail assembly K as shown on page 6. Route the remaining portion of the brown wire to the LH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the light blue wire from above. Route the remaining portion of the brown wire to the RH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the dark blue wire from above. Route the remaining portion to the RH side marker lamp area, trim to length, install terminal P, and plug into the other side marker lamp pigtail assembly K as shown on page 6. You can now plug the connectors H onto the parking lamp pigtails V and W from above to complete your parking/turn signal lamp connections, and side marker lamp pigtail assemblies K into your side marker lamps to complete those circuits. |

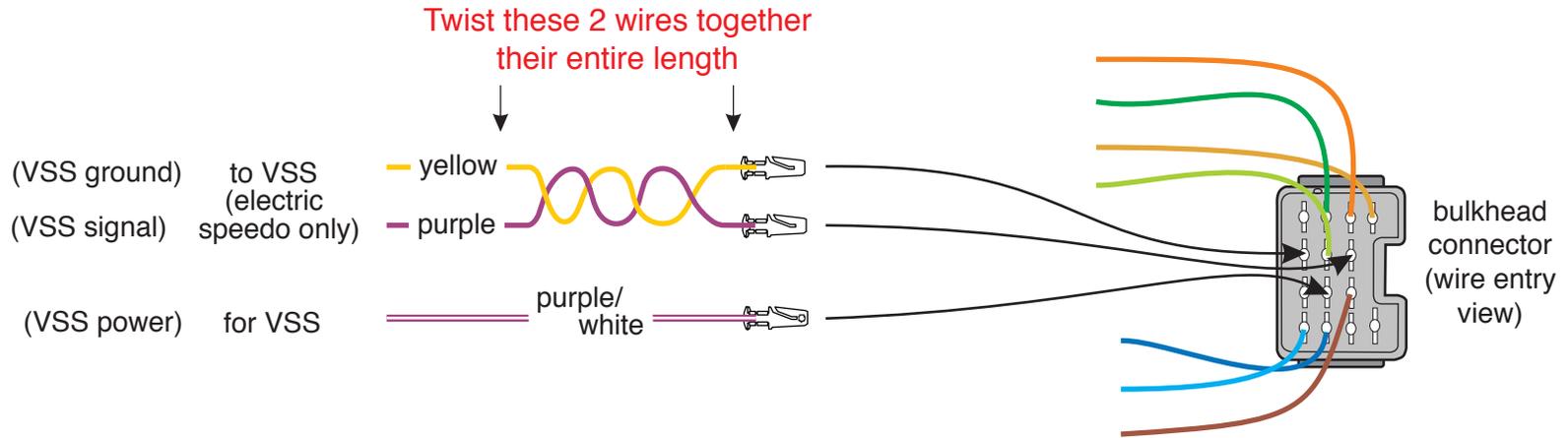
**Note 2:** We have included new headlight pigtails A (LH and RH) complete with ground wires for you to connect to your headlight lamp assemblies. You will plug the tan and lt. green headlight wires into these 2 assemblies below. Attach the ring terminals on these pigtail assemblies A to a good known chassis ground to complete the headlight circuits.

|   |          |                    |   |
|---|----------|--------------------|---|
| G | TAN      | Headlight Low Beam | Route this wire to the driver side outer headlight and trim to length. Double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 6. Route the remaining portion of this TAN wire to the passenger side outer headlight and trim to length. Install terminal C and plug into the 3-way connector on the other headlight pigtail A as shown on page 6.  |
| H | LT GREEN | Headlight Hi Beam  | Route this wire to the driver side outer headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 6. Route the remaining portion of this lt green wire to the driver side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on headlight pigtail A as shown on page 6. Route the remaining portion of this lt green wire to the passenger side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on the other headlight pigtail A as shown on page 6. Route the remaining portion of this lt green wire to the passenger side outer headlight, trim to length, install terminal C, and plug this terminal into the 3-way connector on the other headlight pigtail A as shown on page 6. |
| P | BLACK    | Ground             | The ground wires that are part of the headlight A, parking light V and W, and side marker lamp K pigtail assemblies are addressed in "Notes 1 and 2" above.   |

### OTHER WIRING:

|        |          |               |  |
|--------|----------|---------------|--|
| V      | DK GREEN | Horn          | Route this wire to one horn, trim to length, double it with the cutoff portion, install terminal E, and plug this terminal into connector G as shown on page 6. Route the remaining portion of this dk green wire to the second horn, trim to length, install terminal D and plug into connector G as shown on page 6. Plug the two connectors G onto each of your horns to complete the horn circuit. |
| ORANGE | ORANGE   | Electric Fan  | Route this wire to the electric fan relay and connect per the manufacturer's instructions.<br><b>NOTE:</b> We recommend that this wire be used as the "key on" trigger wire for the electric fan relay.  |
| ORANGE | ORANGE   | (no printing) | This wire is for the Turbo 400 kickdown solenoid. If your car has this option, plug this orange wire into the main bulkhead connector in the location shown on page 6, then connect this wire to your Turbo 400 kickdown solenoid.   |

## Electric Speedometer Wiring for all years



**ELECTRIC SPEEDOMETER WIRES:** These wires should ONLY be used only if your car has an electric speedometer. Plug them into the main connector as shown here or, on pages 2, 4, or 6 (depending on the proper application for your car) of this instruction set and route them as outlined below.

|              |            |  |
|--------------|------------|--|
| PURPLE/WHITE | VSS power  | Route this wire to the vehicle speed sensor and connect to the 12 volt power lead.   |
| PURPLE       | VSS signal | Twist this wire with the yellow VSS ground lead wire below to assure proper shielding. Connect this wire to the vehicle speed sensor and connect to the signal lead. |
| YELLOW       | VSS ground | Twist this wire with the purple VSS signal lead wire above to assure proper shielding. Connect this wire to the vehicle speed sensor ground lead.                    |

**NOTE:** 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.



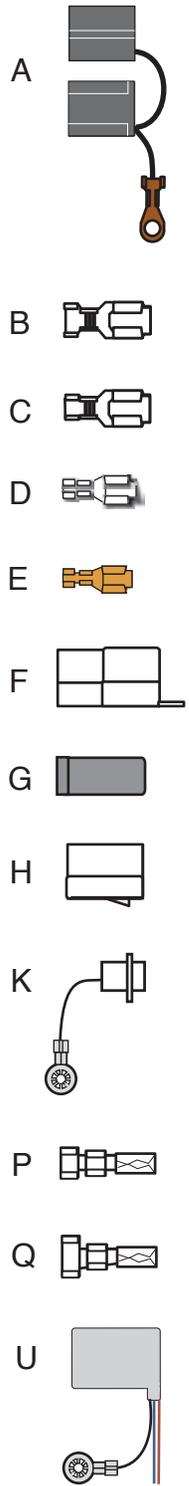
## 1969 Firebird

**NOTE:** See page 8 for directions regarding the connection of the Yellow, Purple, and Purple/White Stripe electric speedo wires.

Assemble the bulkhead connector from this kit to the bulkhead connector from the engine kit (510543, bag J) and then bolt them to the main firewall bulkhead. After all wires are installed from this kit, apply die-electric grease to the terminals and silicone sealer to the outside of the connectors as a moisture seal.

### FRONT LIGHT WIRING:

**Note 1:** We have included new parking lamp pigtails U (LH with lt. blue wire and RH with dk. blue wire) for you to connect to your parking lamp assemblies just as original. Plug the bare male terminals from these pigtails into connector F as shown on page 9. These pigtails will plug onto mating connectors H to complete the front parking/turn signal lamp circuits below. Attach the ring terminals on these U assemblies to a good known chassis ground to complete the parking/turn signal lamp circuits. We have also provided side marker pigtails K for you to connect into your side marker lamp assemblies. You will plug the brown wires below into these lamp pigtails, then attach the ring terminals on these assemblies K to a good known chassis ground to complete the side marker circuit.



|   |         |                |   |
|---|---------|----------------|---|
| B | LT BLUE | LH Turn        | Route this wire to the LH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 9.   |
| C | DK BLUE | RH Turn        | Route this wire to the RH parking lamp area, trim to length, install terminal D and plug this wire into connector H as shown on page 9.   |
| D | BROWN   | Parking Lights | Route this brown wire to the LH side marker lamp area, trim to length, double it with the cut off portion, install terminal Q, and plug into side marker lamp pigtail assembly K as shown on page 9. Route the remaining portion of the brown wire to the LH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the light blue wire from above. Route the remaining portion of the brown wire to the RH parking lamp area, trim to length, double it with the cut off portion, install terminal E and plug into connector H with the dark blue wire from above. Route the remaining portion to the RH side marker lamp area, trim to length, install terminal P, and plug into the other side marker lamp pigtail assembly K as shown on page 9. You can now plug the connectors H onto the parking lamp pigtails U from above to complete your parking/turn signal lamp connections, and side marker lamp pigtail assemblies K into your side marker lamps to complete those circuits. |

**Note 2:** We have included new headlight pigtails A (LH and RH) complete with ground wires for you to connect to your headlight lamp assemblies. You will plug the tan and lt. green headlight wires into these 2 assemblies below. Attach the ring terminals on these pigtail assemblies A to a good known chassis ground to complete the headlight circuits.

|   |          |                       |   |
|---|----------|-----------------------|---|
| G | TAN      | Headlight<br>Low Beam | Route this wire to the driver side outer headlight and trim to length. Double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 9. Route the remaining portion of this TAN wire to the passenger side outer headlight and trim to length. Install terminal C and plug into the 3-way connector on the other headlight pigtail A as shown on page 9.  |
| H | LT GREEN | Headlight<br>Hi Beam  | Route this wire to the driver side outer headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 3-way connector on headlight pigtail A as shown on page 9. Route the remaining portion of this lt green wire to the driver side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on headlight pigtail A as shown on page 9. Route the remaining portion of this lt green wire to the passenger side inner headlight, trim to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into the 2-way connector on the other headlight pigtail A as shown on page 9. Route the remaining portion of this lt green wire to the passenger side outer headlight, trim to length, install terminal C, and plug this terminal into the 3-way connector on the other headlight pigtail A as shown on page 9. |
| K | BLACK    | Ground                | The ground wires that are part of the headlight A, parking light U, and side marker lamp K pigtail assemblies are addressed in "Notes 1 and 2" above.   |

### OTHER WIRING:

|   |          |              |  |
|---|----------|--------------|--|
| P | DK GREEN | Horn         | Route this wire to one horn, trim to length, double it with the cutoff portion, install terminal E, and plug this terminal into connector G as shown on page 9. Route the remaining portion of this dk green wire to the second horn, trim to length, install terminal D and plug into connector G as shown on page 9. Plug the two connectors G onto each of your horns to complete the horn circuit. |
| Q | ORANGE   | Electric Fan | Route this wire to the electric fan relay and connect per the manufacturer's instructions.<br><b>NOTE:</b> We recommend that this wire be used as the "key on" trigger wire for the electric fan relay.  |