



**Application:** Corvette 1984-1987



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## Complete Headlight Repair & Upgrade Kit



### Tools Needed

### Part Includes

- 2 - Retractable Headlamp
- 1 - Headlamp Actuator Control Module
- 2 - Actuator Wire Pigtails
- 1 - Control Module to Relay Wire Adapter Harness
- 1 - Control Module to Actuator Wire Adapter Harness
- 2 - Special Adapter Nuts
- 6 - Cable Ties
- 2 - Screws

### PRECAUTIONS

Do not energize the Controller until all wiring changes are complete and proper:

While adjusting Headlamp, do not apply a power assist means such as drills, air drivers, etc to the knob of the actuator. Operation of the headlamp MUST be either through the normal operation of the switch and controller or by Hand rotation of the knob.

### PRIOR TO ASSEMBLY:

Insure that the retractable headlamp system on the vehicle is RELAY DRIVEN. There are two quick methods of identification.

### STEP 1.

Locate the relay cover and relays on the forward side of the front left wheel well. Remove cover and inspect for 3 relays offset in a diagonal line.

### STEP 2.

Look at the actuator on the Retractable Headlamp Assembly. It should be a self contained plastic housed motor with 2 stage gear reduction. Look on the case for the part number. The Left Hand actuator will feature part number 16500363 and the Right Hand 16500364. **Note:** also, that the actuator has 3 wires exiting the actuator.

Insure that all parts are included in the service package including:

1. Two Retractable Headlamp Assemblies – complete except for head lamp capsules. The Headlamp capsules from the vehicle being retrofitted will be transferred to the new units. The part numbers for the Retractable Head lamp Assemblies are Left Hand-16517069 and Right Hand-16517070.
2. One Headlamp Actuator Control Module (part number 16510537)
3. One Wiring Adapter package containing:
  - a. Two actuator wire pigtails (3 wire to 2 wire) part number 16517073
  - b. One Control Module to Relay Wire Adapter Harness (5 wire) part number 1217084
  - c. One Control Module to Actuator Wire Adapter Harness (4 wire) part number 12117085
  - d. Two Special Adapter Nuts to act as a hood bolt extender to adapt mechanism on 1984 models only.
  - e. Six Cable Ties (Packard Electric part number 08905262)
  - f. Two screws to attach Control Module
4. Complete instruction Sheet



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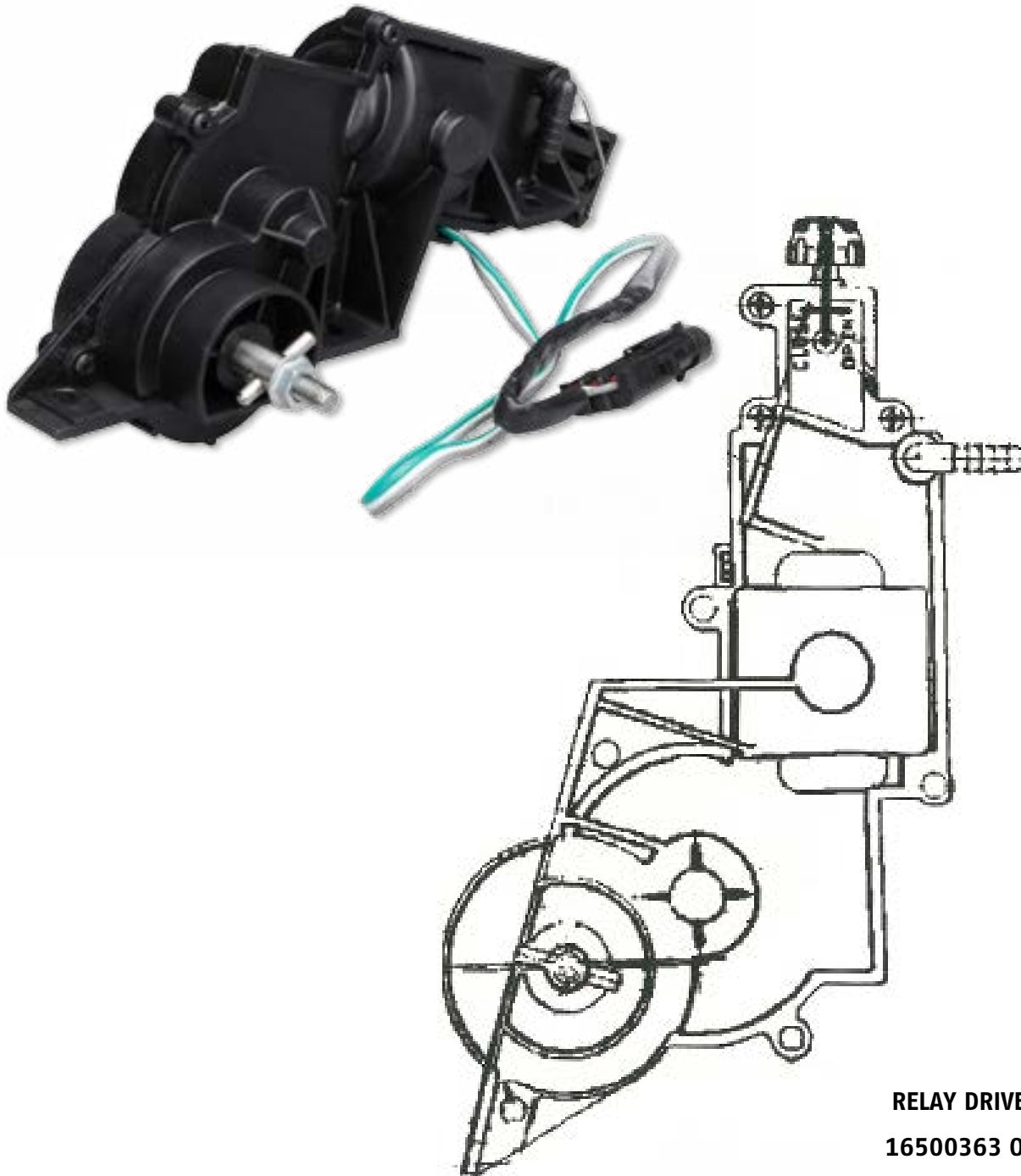


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## Description (cont.)



**RELAY DRIVEN ACTUATOR**  
**16500363 OR 16500364**

**DISASSEMBLY:**  
**STEP 1.**

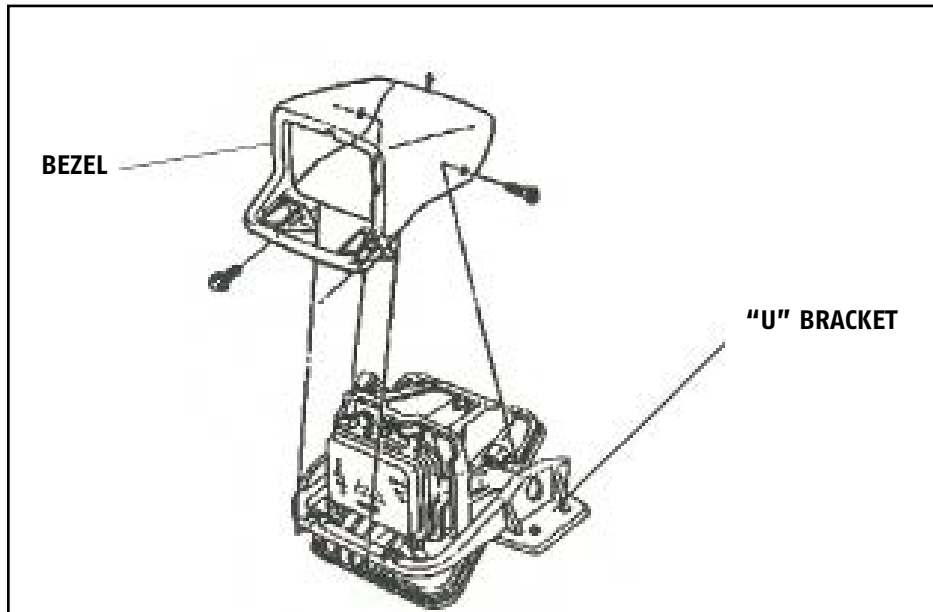
Open hood. Turn ignition switch OFF and Disconnect Negative Battery terminal and insure that cables can not come into inadvertant contact with battery terminals or external power sources.



## Description (cont.)

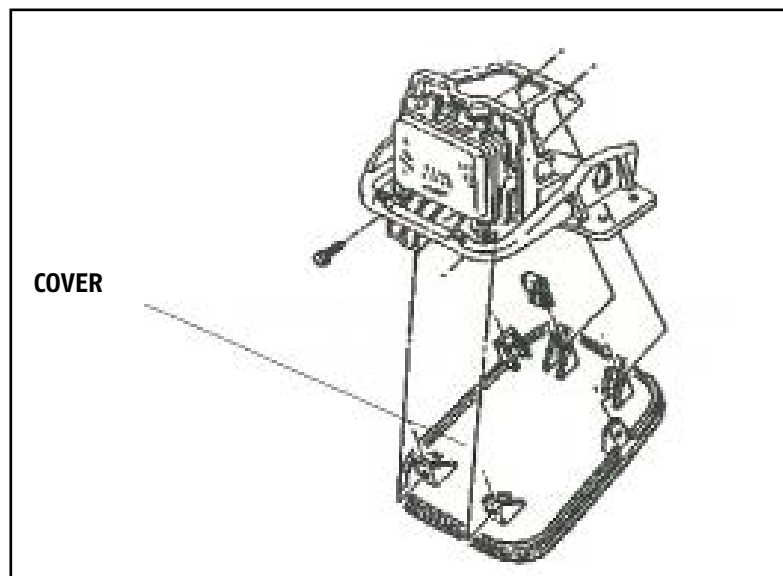
### STEP 2.

Remove the Retractable Headlamp assembly Car Colored Close-out Bezel taking care not to ma or scratch surfaces



### STEP 3.

Remove Car Colored Headlamp Cover

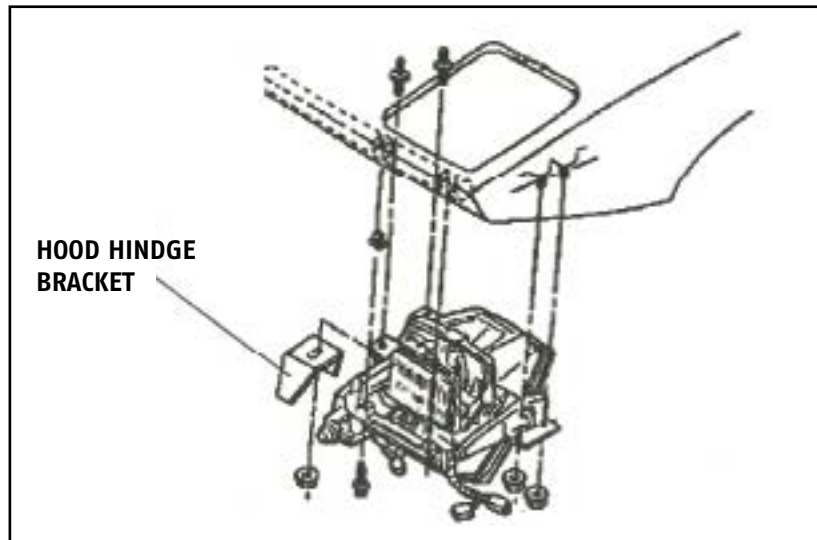




## Description (cont.)

### STEP 4.

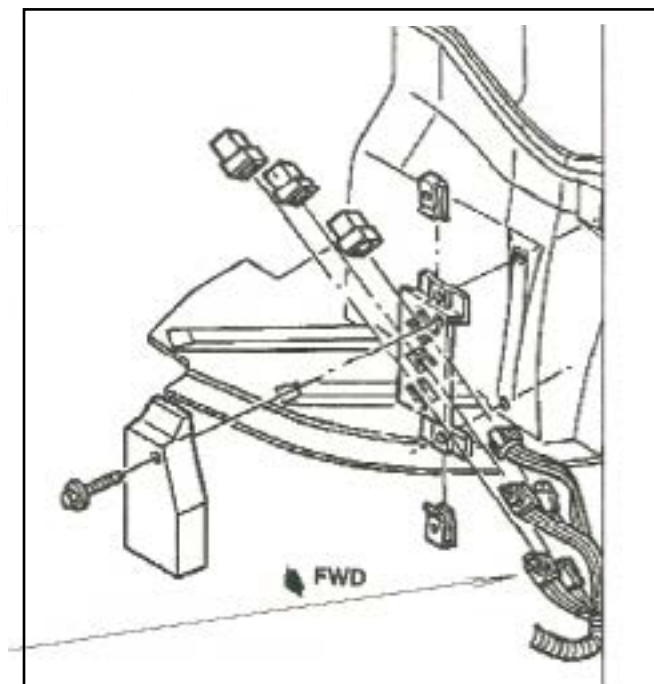
Remove Retractable Headlamp Assembly. Please not the Hood Hinge Bracket



### STEP 5.

Remove and discard Relay's, relay cover, and mounting bracket.

Note that there are five harness connectors to the three relays



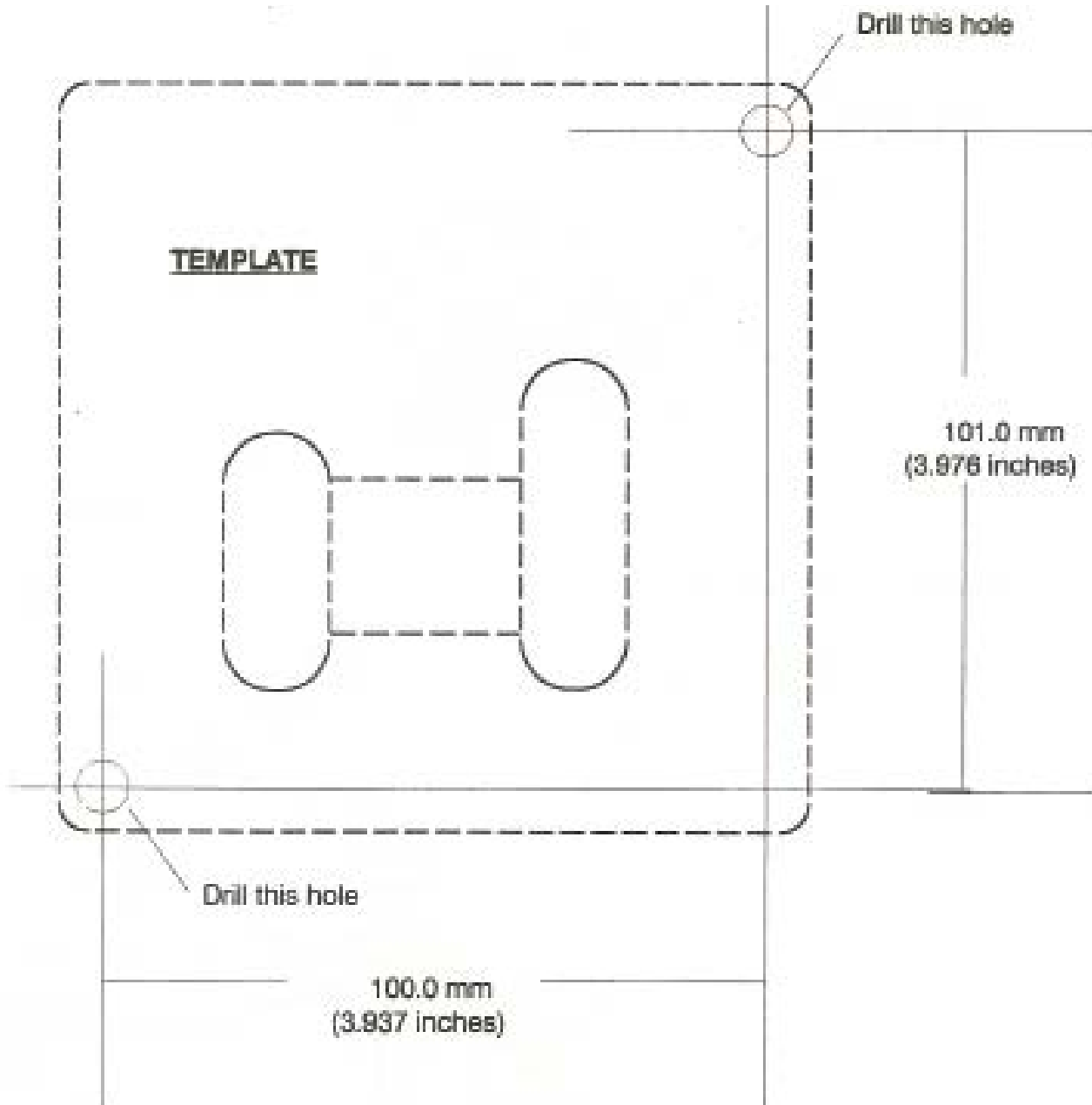


## Description (cont.)

### STEP 6.

Look at the Controller (P/N 6510537). To mount the controller, two holes must be drilled into the wheel well in the general location of the relay cover and mounting bracket. The holes must be spaced as shown and 8mm diameter.

**WARNING:** Do not use Module itself to drill holes. Use the Template provided below.

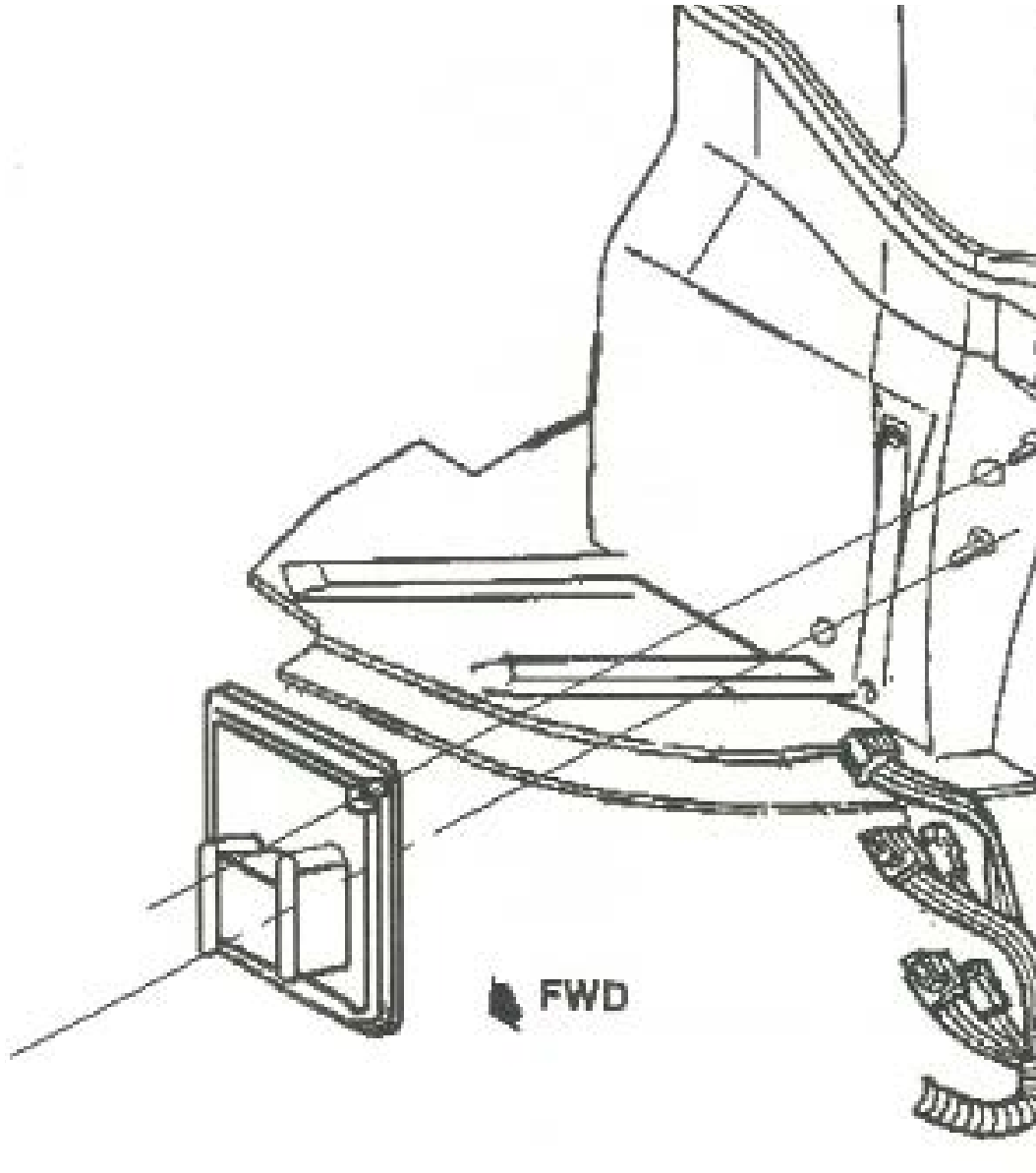




## Description (cont.)

- a. Mount the Controller (P/N) 16510537 over the wheel well in the same general location as the previous relay pack.

**NOTE:** The old pack mounting bracket locations differ from those of the Controller (P/N 16510537). The Controller has two threaded inserts (M 6x1 thread). Locate the Controller mounting inserts. Use two M 6x1 screws to mount the Controller to the wheel well. Tighten screws to 4.5 Nm (39.32 in-lb) torque maximum.





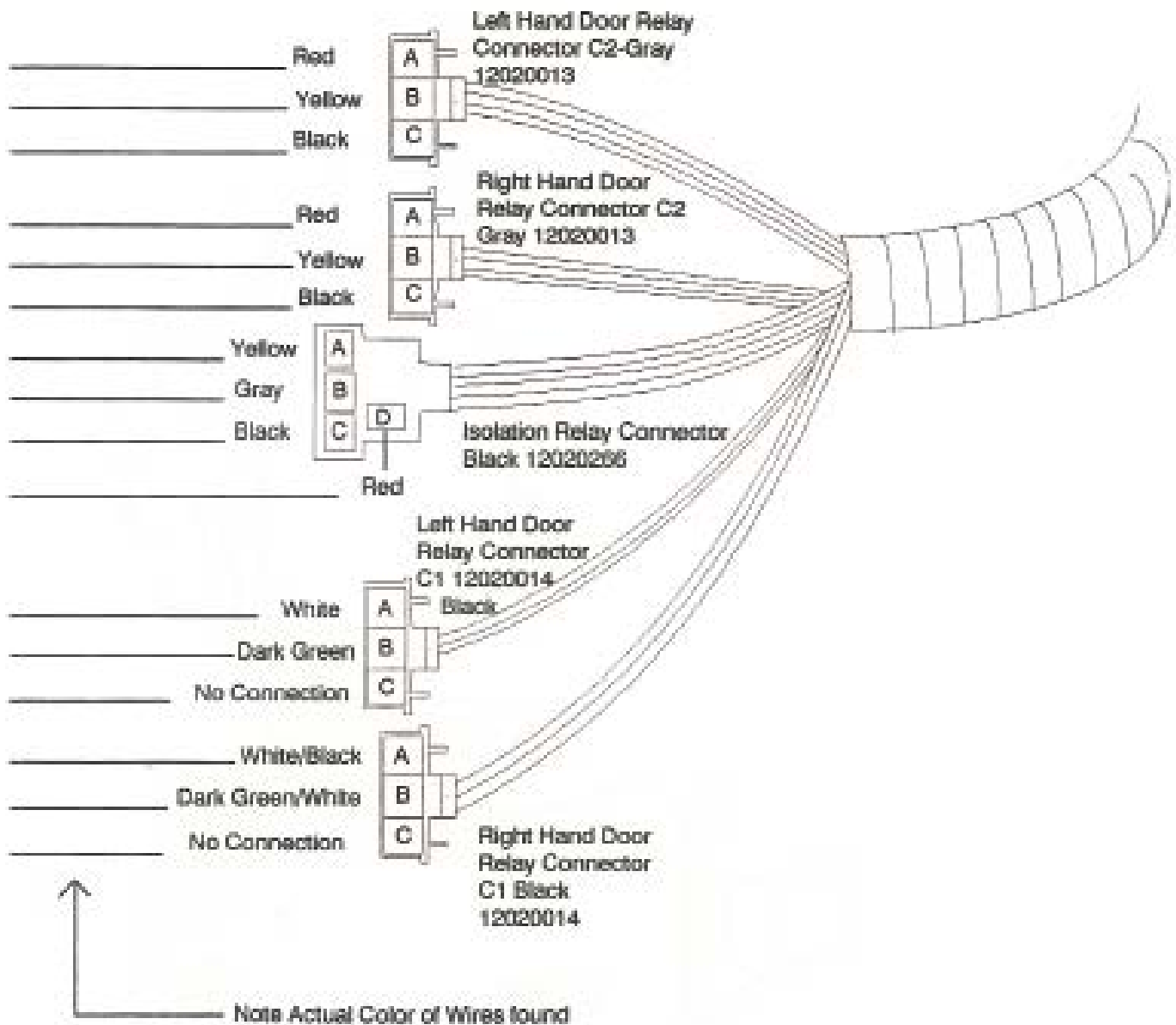
## Description (cont.)

### MODIFY CONNECTIONS

Relay Connections: The relays having been removed, take to note the connections and wire colors to the relays. It is very important that these connections be made accurately. Although the wire colors shown are typical, it is not uncommon for colors to vary for a variety of reasons.

### STEP 1.

Before removing the connectors, Mark and wrap Masking Tape around each of the five wire bundles. Remove the connectors in preparation to splice connect new connectors.

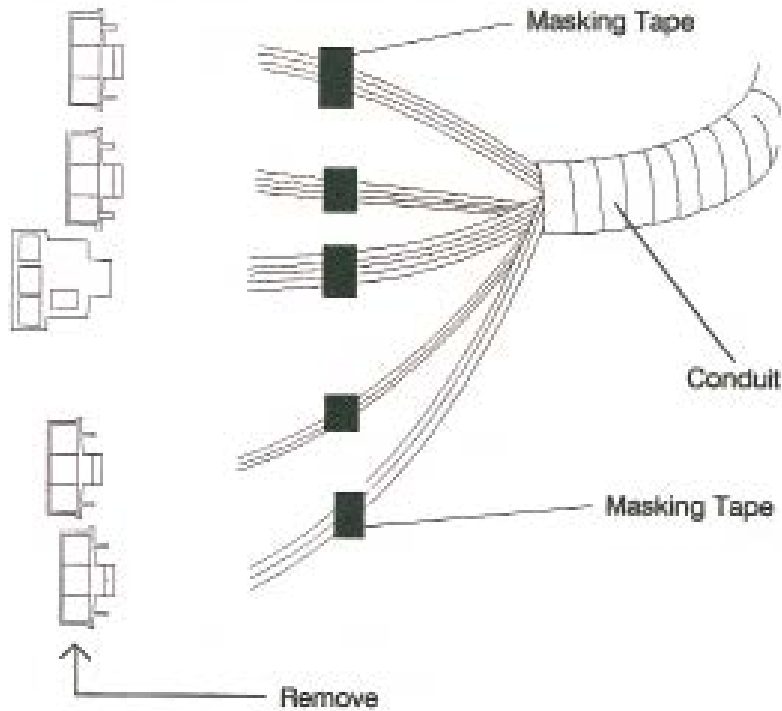




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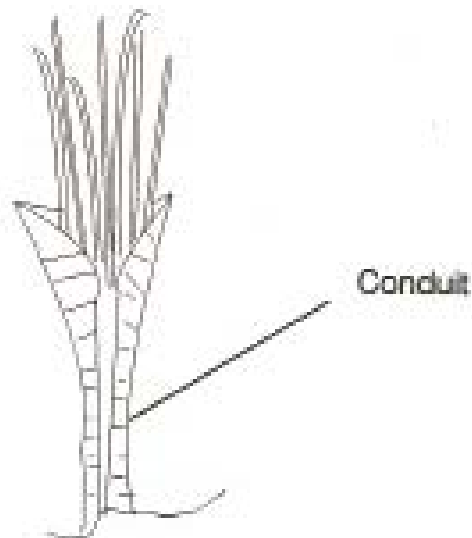
### STEP 2.

Cut off and discard Relay Connectors



### STEP 3.

Peel Back the protective conduit in order to expose the wires. The connector assembly P/N 12117084 (five wire) has wires of varying length and the connections are staggered such that connections should be made down the wires. Wire lengths should be cut as necessary.



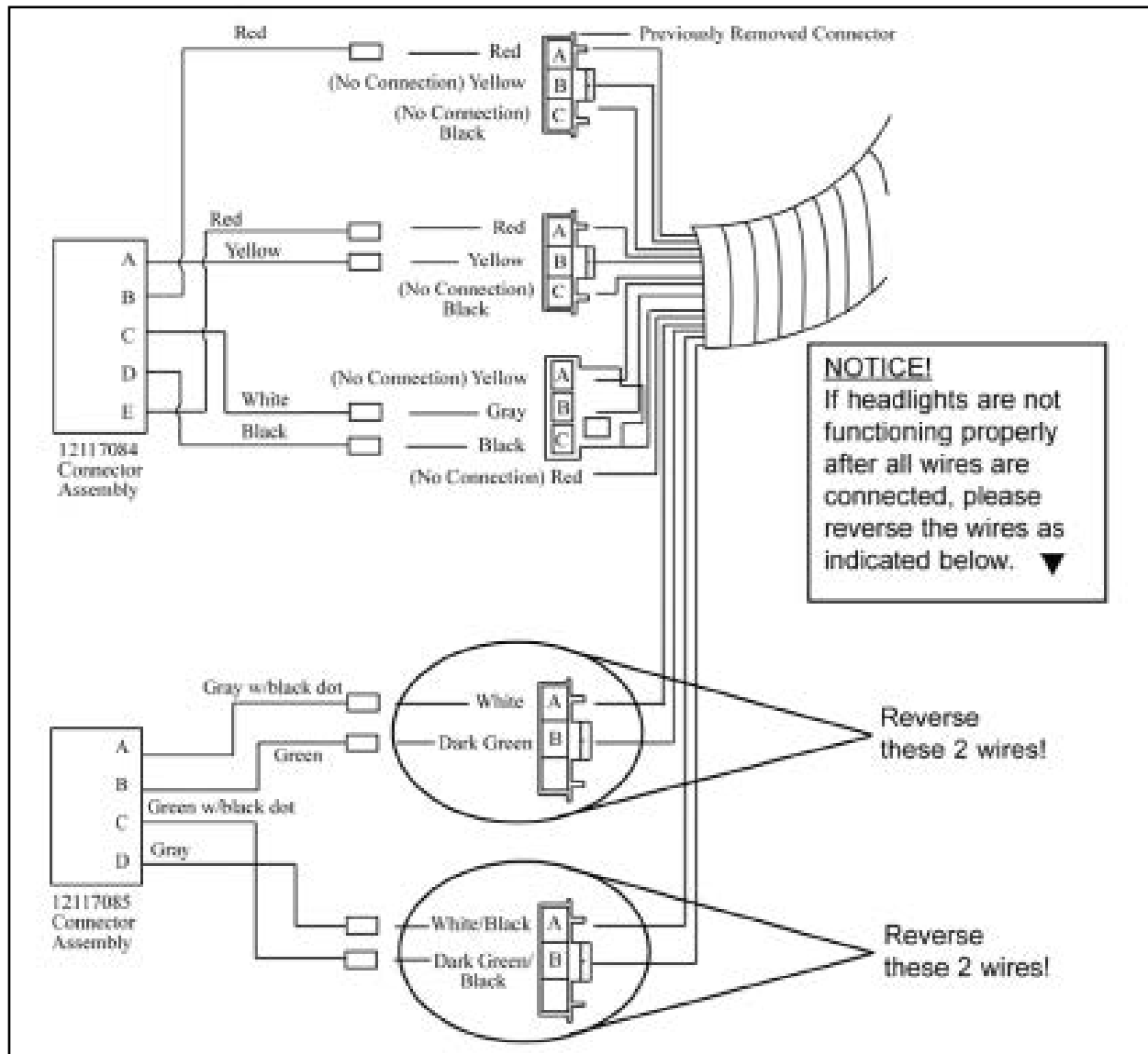




## Description (cont.)

### STEP 4.

Attach Connector Adapter assemblies 12117084 and 12117085 to wires using the splice connectors on the adapter assemblies. Note that not all wires are to be reconnected. Leave unused wires in place.

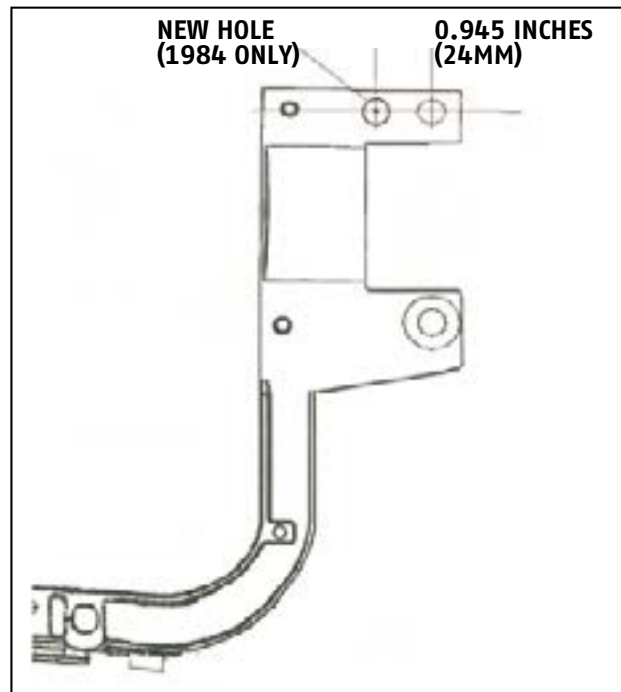




## Description (cont.)

### PRIOR TO RE-ASSEMBLY

For 1984 Model Year Vehicles, examine the New Replacement Headlamp assemblies and note the attachment extensions on the actuator side of the "U" shaped aluminum bracket. On 1984 vehicles, an additional 12mm diameter hole will have to be drilled as shown.



### RE-ASSEMBLY

#### STEP 1.

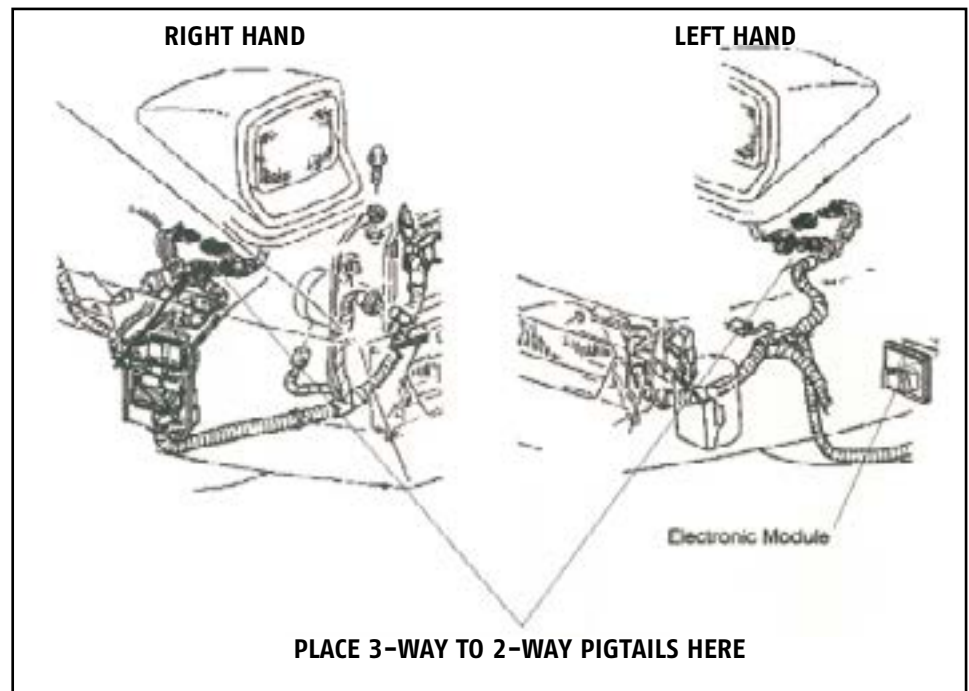
Install new Headlamp assemblies onto hood. Transfer headlamp capsules from the old units to the new and re-fit the Cover and Bezel. Align Cover.

#### STEP 2.

Connect the actuator adapter assemblies (3 way to 2 way pigtails) P/N 16517073) to the Right Hand and Left Hand connectors that the Head lamp actuator would normally connect (P/n 12034351)

#### STEP 3.

After insuring that all connections are proper, secure and mounted away from the rotating space of the headlamp, connect the Negative Battery power.

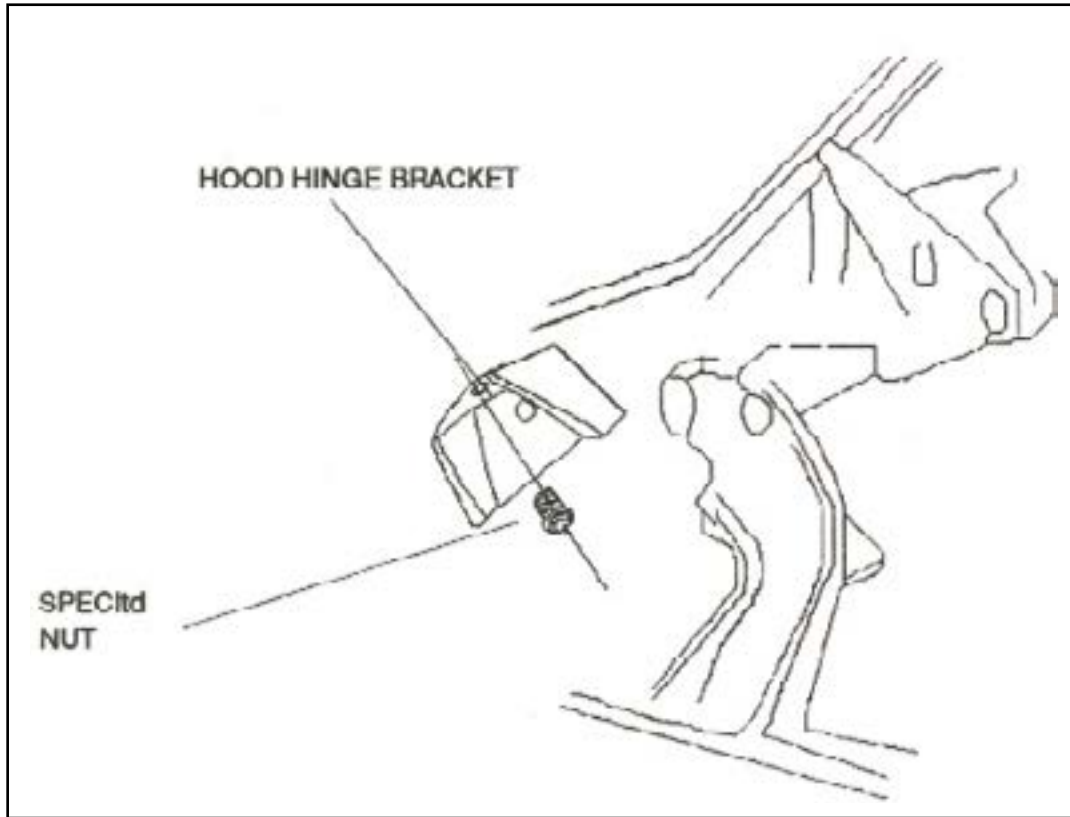




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### OTHER NOTES