RON FRANCIS Wiring

# HR-58
# Head Light Switch Relief Relay with Optional Brite Light Feature
# (Dual Head Lights)

The head light switch relief relay takes the heavy load off the head light switch caused by some aftermarket halogen bulbs. This system is also equipped with the optional brite light feature. If desired, change one plug-in connection and both the low and high beam filaments of the head light bulb will light producing much more candle power when the high beams are on. Installation is simple, just follow the paragraph below that pertains to your application.

## Panel Installation

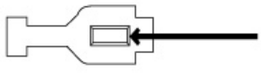
**FLOOR DIMMER SWITCHES*:** First unplug your dimmer switch (using the connector that was supplied with the wiring kit) and plug the wire connector into the relay connector. The red and brown low and high beam wires noted in your wire kits installation instructions will not be used. They will be replaced with the wires supplied in this kit. Plug the dimmer switch back into the additional connector on the relay. The red wire out of the relay runs to a 30 amp fused battery hot all the time source. The Black wire out of the relay runs to a good ground. Now run a red and brown wire to the left (drivers side) and right head lights. Connect the red to the low beam and the brown to the high beam. Be sure the head lights have a good ground.

**GM STEERING COLUMN DIMMER SWITCHES** plug the connector with the blue, yellow, white and brown wires into the column mounted dimmer switch. This connector lacks the locking tabs but the spacing of the three terminals will fit and can be plugged directly in. The other connector running from the relay with the red, blue and brown wires connects to the dimmer switch harness supplied with your complete vehicle wiring kit. The red and brown low and high beam wires noted in your wire kits installation instructions will not be used. They will be replaced with the wires supplied in this kit. The red wire out of the relay runs to a 30 amp fused battery hot all the time source. The Black wire out of the relay runs to a good ground. Now run a red and brown wire to the left (drivers side) and right head lights. Connect the red to the low beam and the brown to the high beam. Be sure the head lights have a good ground.

## Other Installations

**FLOOR DIMMER SWITCHES*:** First unplug your dimmer switch and plug the wire connector into the relay connector. Plug the dimmer switch back into the additional connector on the relay. The red wire out of the relay runs to a 30 amp fused battery hot all the time source with a minimum of 12 gauge wire. The Black wire out of the relay runs to a good body ground. The original low and high beam wires running to your head lights will not be used. They will be replaced with the wires in this kit. Now run a red and brown wire to the left (drivers side) and right head lights. Connect the red to the low beam and the brown to the high beam. Be sure the head lights have a good ground.

***Note for: GM FLOOR DIMMER SWITCHES*** **The stock plug on the GM floor dimmer switch will not fit into our relay plug. We have provided you with a plug that you can use to replace that one. You can easily remove the terminals from your existing plug and put them into our plug in the same color configuration (see instructions below).**



This is the tab that needs to be pushed down to remove, then pried back up to re-install. (Push down from front of terminal) Use small screwdriver or sturdy paper clip.

**GM STEERING COLUMN DIMMER SWITCHES** Note: The plugs out of the relay for the dimmer switch connection may not look the same as the shape of the dimmer switch mounted on the column. It will however plug into the necessary terminals to allow the dimmer switch to function. Connect your existing harness into the relay connector male plug out of the relay. Plug the female connector out of the relay into the dimmer switch. The original low and high beam wires running to your head lights will not be used. They will be replaced with the wires in this kit. The red wire out of the relay runs to a 30 amp fused battery hot all the time source with a minimum of 12 gauge wire. The Black wire out of the relay runs to a good body ground. Now run a red and brown wire to the left (drivers side) and right head lights. Connect the red to the low beam and the brown to the high beam. Be sure the head lights have a good ground.

**DS-05 TOGGLE DIMMER SWITCHES:** A dimmer switch harness has been supplied with your vehicles wire harness to connect to a dimmer switch. Plug this connector into the mating connector running from the HR-58 relay harness. The remaining connector and terminals with the blue, brown and red wires must be removed**. (NOTE: RFW manufactures an adapter (HR-57) to plug into this connection making this a simple plug and play connection).** Install a 10-12 gauge terminal with a #8 ring (not supplied) on all three wires. Connect the blue wire to the center post on the switch. Connect the red and brown wires to the remaining posts on the switch. It does not matter which post these wires connect too. The original low and high beam wires running to your head lights will not be used. They will be replaced with the wires in this kit. The red wire out of the relay runs to a 30 amp fused battery hot all the time source with a minimum of 12 gauge wire. The Black wire out of the relay runs to a good body ground. Now run a red and brown wire to the left (drivers side) and right head lights. Connect the red to the low beam and the brown to the high beam. Be sure the head lights have a good ground.

## Brite Light Feature

**IMPORTANT: Lighting both the high and low beam filaments at the same time will create a heavier amp draw than normal. Exceeding a thirty amp draw on this circuit will cause the relay to fail. Check the bulb manufacturer's amp ratings to ensure this system will not be over loaded when both filaments are lighted at the same time.**

Note the two black connectors down near the dimmer switch connector. The red wire connected to the white wire is the standard low/high beams. Reconnecting the red wire to the yellow wire will allow both high and low beams to function when the high beams are turned on resulting in much more candle power produced from the bulbs. Inst\HR-58