

Installing the Hotronics CLT-1a Interior lamp delay.

The CLT-1a, is an adjustable 'time delay off' for automobile interior, courtesy lamps, activated when the door is opened and closed, holding the interior lights ON for a specified length of time ranging from 0 to 60 seconds, allowing you time to settle in and prepare for nighttime driving.

Fits all 12-volt negative ground electrical systems. Easily connects to existing lighting systems and door jam buttons, then gives you lighting luxuries found only in expensive production vehicles.

Conveniently packaged with a built-in high amp, switching relay for handling several bulbs in several locations all at the same time.

Features include; compact solid state design, ultra low power consumption, low voltage door triggers, a built-in switching relay to handle large 10 amp lighting loads, switching both power or ground type lighting systems and has an adjustment to tailor the run times to your liking.

The CLT-1a also has an ignition activated NO GLARE feature that turns off the lights when the engine is started, allowing for full driving vision and no hazardous reflections on the glass.

Disconnect the battery before beginning installation.

Select a mounting location inside and away from water or leaky window seals, usually under the dash, near the driver's door-jam switch. Electrically the door-jam buttons, switch one, of two methods, power to the bulbs or ground to the bulbs.

Determine which type door-jam switching your vehicle has. The door-jam switch will have a wire plugged to it that leads to the bulbs.

If you have a ground type system, the lights wire, when grounded will make the bulbs come 'On'. This is a ground type system. Meaning the switch completes ground.

Find this wire and unplug it from the drivers door-jam switch and connect it to the interior light delay Blue wire. Do NOT connect the Blue wire back to the door switch!

Once activated the output from the delay blue-wire, will now control the lights.

The door switch will now become the activation trigger to the delay.

Connect the delay Green wire to the door switch where you unplugged the lights wire.

The CLT-1a activates using a ground path to the Green wire when the door is opened.

Be sure to convert a positive type door switch, to trigger a ground signal to the green wire.

Chevy, Chrysler and most after market wiring kits use door switches that trigger ground.

If you have a Positive (Ford) switching system, convert the switch to trip ground. Just disconnect the hot wire from the other side of the drivers switch. Connect a ground wire to the switch where you removed the hot wire, now the switch will trip ground to the Green delay wire. Do NOT reconnect the hot wire to the door switch. (See wiring chart)

For the Ford positive switching systems, the disconnected positive hot wire of the driver's switch we are going to connect later in the installation to the delay Yellow wire.

All other doors you wish to use to activate the delay, convert the door switches to trigger ground and connect to the green wire. Insulate all wires unplugged from switches.

Do not hook them back up or allow them to touch together or to ground.

You'll only need the one Blue wire at the drivers door hooked to the lights wire. But you'll need the green wire to go to all door switches to be used as triggers.

So just insulate the other light wires from any or all door switches being used.

The CLT-1a uses solid state electronics, so remote control outputs can also be connected to the Green wire to activate the lights when operating a remote transmitter to open doors or unlocking the locks, this way the inside lights will come ON when the transmitter button is pressed, illuminating the interior as you approach.

By now you have determined the type of switching your vehicle uses, either switches power source to the lamps or switches ground source to the lamps. The Yellow wire is the source wire. (The current that will flow to the lights, Hot or ground.)

This yellow wire will now become the source the CLT-1a will switch, when activated. So hook up the Yellow wire to your vehicles switching type.

For a Power type switching system, connect the CLT-1a Yellow wire to a fuse at the fuse box that is HOT all the time. Or if you have an existing Power switching system, use the hot wire, removed from the driver's door-jam switch and connect to the Yellow source wire. (See wiring chart)

For Ground type switching, connect the Yellow wire to clean body Ground

Next connect the White CLT-1a wire to 12 volts switch ON by the key.

Now connect the Hotronics Black wire to a clean metal ground.

Last, connect the CLT-1a Red wire to the fuse box or battery constant Hot.

Reconnect the Battery, the interior lights will activate and cycle one time if the doors are shut, if not the lights will come on and go into delay when the door is closed. Set the desired delay time you wish the light to remain ON after the door is shut.

When the key is turned to the 'On' position' and the doors are closed the lights will turn to instant 'off', so your not attempting to drive blinded by glare on the glass.

Interior lights will operate without delay whenever the door is opened and closed while the key is in the ON position. Only when the key is off will the delay begin.

Entering or exiting the vehicle triggers the delay and the lights go on for your preset delay time. When the time program elapses, the lights will turn off.

This is a fabulously convenient feature and will enhance your driving pleasure.