

ABN 16 093 260 381

LED BRAKE LAMPS TECH BULLETIN

We occasionally receive calls from Cruise Control installers and vehicle owners asking why their Cruise Control does not work on a vehicle that has LED brake lamps. The simple answer is that LED lamps have a much lower resistance value than conventional bulbs, and Cruise Controls check the resistance value of the brake light circuit before engaging as a safety check to ensure reliable disengagement when the brake pedal is depressed.

Therefore all we need to do is increase the resistance value of the brake lamp circuit, which is achieved by the following.

OPTION 1 – CIRCUIT LOAD RESISTOR

This is the simplest solution provided you can easily obtain a load resistor. We recommend a resistor specification around 5-10 watts and with a resistance value of 100ohms. Identify the switched output wire from the brake lamp switch which is the wire that feeds voltage to the brake lights when the brake pedal is depressed. At the point where the Cruise Control Brown wire is connected to this wire, connect one side of the load resistor (It doesn't matter which side) and connect the other side to earth.

OPTION 2 – 5 PIN CHANGEOVER RELAY

This is slightly more involved to fit, but a changeover relay may be easier to obtain and provides the same result.

Connect relay pins 85 and 87A to earth.

Connect relay pin 87 to 12volt ignition switched power.

In the Cruise Control wiring harness you have a Brown wire and Brown wire with a White trace line. One of these wires will be connected to the power feed into the brake light switch. The second will be connected to the switched output wire from the brake lamp switch that feeds voltage to the rear brake lamps when the brake pedal is depressed. **This is the wire we need for this modification.**

Cut this wire and connect side from brake lamp switch to relay terminal 86. Connect the other side of this wire (to Cruise Control module) to relay terminal 30. So on the switched output side of the brake lamp switch you will have the factory wire, soldered connection of Brown or Brown with White trace connected to relay terminal 86, out of relay terminal 30 to Cruise Control Electronic Module.

DISCLAIMER: Command Auto Group Pty Ltd (hereafter referred to as the company) provides this information as a diagnostic support service to customers to assist in fault-finding automotive Cruise Control installations. When followed correctly there is no risk of damage to the Cruise Control, the vehicle to which it is fitted, other property, or personal injury. The company cannot be held liable for damage, loss or injury that occurs though product fitment to non-specified vehicles or other mechanical or electronic devices. Further the company cannot be held liable for damage, loss or injury that occurs from failure to understand and correctly apply this information, or for action taken beyond that described in this or similar technical support documents, or verbal advice provided by TCAG Technical staff.