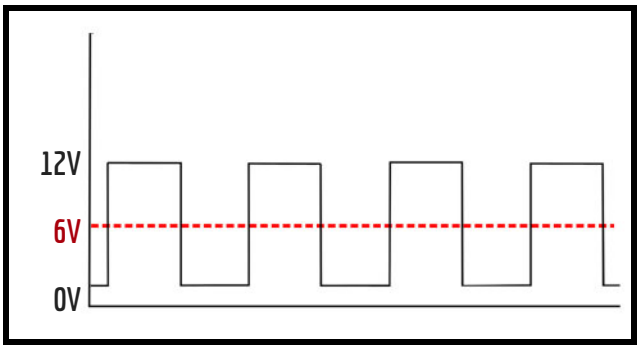
DRL DECODER
TECH BULLETIN



DRL DECODER FOR DAYTIME HEADLIGHTS "PULSED" (DUTY CYCLE / PWM)

The DRL decoder will be used on the majority of vehicles 2006 and up, when high beams or low beams are used as "DRL" daylight systems activated by the car's computer. The cars's computer ensures that the voltage directed to the original bulb is provided by micro pulsation from 0 to 12 volts as shown in the diagram to the left. It is possible to check this micro-pulsation using an oscilloscope. A regular multimeter would not be fast enough to see the reading so it would display an average voltage of 6 volts.

WHY USE A DRL DECODER AND IN WHAT SITUATIONS

- Use the decoder when there is flickering on "DRL" headlights.
- For optimum lighting stability in "Day lights" mode by regularizing voltage at 12 volts to avoid all flickering of headlights.
- Stabilizes the output voltage to +/- 2%.
- With connectors identical to those used by the manufacturers which allows quick and easy installation.
- Operating capacity of 6-30v dc.
- In a robust water-resistant box superior to ip67 standards.

IN WHICH CASE A DRL DECODER WILL NOT BE THE SOLUTION FOR YOUR PROBLEM

- In vehicles built before 2006 that have the DRL system in real 6v serial on each bulb (12v total).
- The halogen bulb lights at very low intensity on the 6v. The ODX LEDs are stable from 8v so if you have this type of vehicle, the LEDs will simply not light up or flicker. The only way to solve this issue is to power the circuit with 12v directly with a 6V relay wiring set with ODX capacitor.