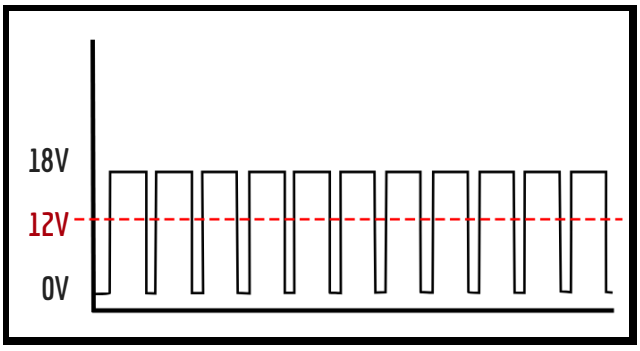
INTELLIGENT DECODER

TECH BULLETIN



INTELLIGENT DECODER

The smart decoder is used when the vehicle's computer performs a verification of the original bulbs to inform the driver of the fault using a display in the dashboard of the vehicle. The smart decoder also allows a "pulsed" current (as shown in the diagram to the left), frequently encountered in American vehicles such as Ram and JEEP, much like the DRL decoder, to provide a steady current coming from the car computer to the LED bulb.

WHY USE AN INTELLIGENT DECODER AND IN WHAT SITUATIONS

- Allows control of the manufacturer's anomaly detectors.
- Allows stabilizer power from car's computer to the LED bulb.
- Stabilizes the output voltage to +/- 2%.
- With identical connectors to those used by manufacturers which allows quick and easy installation.
- Operating capacity of 8-24v dc.
- In a robust water-resistant box superior to ip68 standards.

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

In some American vehicles (Cherokee, 300, Charger) and some Mercedes that have a greater sensitivity to the variances of the bulb charge than the majority of manufacturers. If the original bulb has 55w and your ODX LED bulb has 30w, a 25w loss is perceived by the computer, which will turn on a burnt bulb signal on the dashboard. In some cases, such as the American models, the light circuit may shut down after a few days during an automatic test. Despite the fact that the Intelligent ODX decoder adds 5w to the circuit for a total of 35w and works in most cases, the vehicles listed above are more sensitive because there is still too much of a difference. In this very specific case, you will have to use the relays with capacitor with the Add-a-circuit option and our 55w resistor sets from ODX. Contact your representative for further questions.