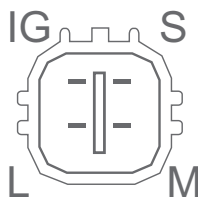


Denso Charging issues with a missing B+ Sense Supply

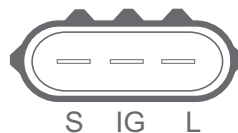
JAS have had a number of calls from customers who have fitted a new 3 or 4 pin Denso Alternator to later model vehicles, mainly Toyota, and still had the Alternator warning light staying on but charging Voltage at the battery is OK, or a vehicle presenting with this issue as the situation described below.

The Common 3 Pin round or Oval Plug has, Ignition, Light and Battery Sense and the early 4 Pin plug before ECU control has Ignition, Light, Battery Sense and M or FR which is essentially an Alternator output to advise the ECU how hard the Alternator is working.

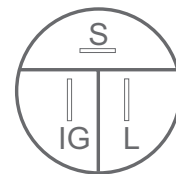
Plug RP224



Plug RP11



Plug RP07



The most common issue causing the light to remain on and still charge is lack of the battery sense supply. There can be any number of reasons for this to be missing from a blown fuse to a similar issue to a previous Tech Tip on Mitsubishi style plugs showing a Commodore with the Sense wire corroded off at the Battery Post.

Testing with Ignition on should show 3 terminals with 12volts on all 3 styles of plug.

Thanks to Sam Pearson from Sam's Auto Electrical in Bendigo on this one, as he had a 200 Series Toyota Land Cruiser where the customer had conveniently "relocated" the Battery Sense fuse in the fuse box behind the battery into a spare fuse spot leaving the correct holder spot empty! Let's face it we look for blown fuses not missing ones!

Talk about having to think outside the square.

