

# Ircon<sup>®</sup> System Solutions – Automotive

## Diesel Engine Glow Plug Test

### Customer

Spark Plug Mfrs

### SIC code

3264, 3694

### Application

### Customer Needs

Diesel engines do not have a spark plug. But, they do have a glow plug, which is used to ignite the fuel during start up. Power is supplied to the glow plug and it heats up to 1037°C (1900°F). This temperature has to be achieved in so many seconds or the plug is defective.

To test the plug the manufacturer applies current and a timer. If the plug reaches the correct temperature in the proper time then the plug is accepted. The manufacturer has to warranty each plug for the engine manufacturer or the part wholesales company that resells to the general industry.

The best instrument to measure the plug temperature is the Modline 5 5R or 52 series. Both should have on off control for alarm condition. The accuracy is very critical so that the manufacture is not rejecting good parts or keeping bad parts.

### Features/Benefits to address

#### Product

- Modline 5 - 5R and 52 series.

#### Application

- All plugs are tested for compliance
- Manufacturer is assured that he is shipping good product.

### Who to talk to?

1. Production Engineer
2. Quality Manager
3. Plant Manager.

### What to take?

1. Modline 5 Demo and related literature



*Examples of glow plugs produced by Japanese firm NGK*

### Names of customer

Bosch, Champion, AC Spark Plug, NGK are all names of big players in the sparkplug/glow plug industry. It might also be beneficial to check with diesel engine manufacturers such as Cummins to determine if there are similar applications.