

Injectronics

TECHNICAL BULLETIN

VARIOUS

#T0016

Make: Various

Model: Various

Subject: Corroded wiring connections

A common fault with automotive electronic wiring, which is often over looked, is corroded wiring connections. With engine steam cleaning becoming common place in workshops and drive in car wash outlets, more and more connectors / terminals are being affected by water residue and oxidisation.

Every time a connector / terminal is removed and refitted, a small percentage of the original protective coating is worn away, leaving the affected surface susceptible to oxidisation contamination. Once terminals / connectors are affected by oxidisation or moisture, damage to electronic components and / or voltage drops across the affected connection may result.

The connectors which are most likely to cause problems are those which either, face upwards and allow water to be contained for a period of time or those which are situated near washer bottles, radiator hoses, heater hoses, water pumps, thermostat housings etc.

Injectronics have found the following connectors / terminals to suffer most frequently from the effects of oxidisation:-

- VL Commodore / Skyline Crank angle sensors
- Nissan 300zx and 300c Injector plugs
- TN / TP Magna coolant temperature sensor plugs
- Connection under Skyline washer bottle (power supply to Injectors)

Injectronics recommend that the faulty connection / terminal be cleaned with an approved electrical contact cleaner (or replaced in extreme conditions) and that the protective rubber boot be serviceable or replaced if perished. Once the connector is clean, it should be covered / filled with an anti-oxidisation compound (Wurth silicon grease 0893 223 - L / Dow Corning P.G 21) and then reconnected with any excess being wiped away.