

# Injectronics

Remanufactured Automotive Electronics Components

## TECHNICAL BULLETIN

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**Make: Holden**

**Model: Various**

**Subject: Intermittent Delco problem**

Various intermittent problems have been found on the Delco system and can be traced back to faulty components, such as the wiring, Hall sensors or DFI modules. Some intermittent faults are often attributed to the ECM (some are found to be faulty) and it has also been found that replacing the ECM may solve an intermittent problem but only for a short time. Injectronics has found that often the ECM is replaced and the fault disappears, then after some time the customer is back with a similar complaint.

When testing the Delco system it is advisable to do the standard EFI checks and also check the actual connections to the ECM because when the ECM is replaced the connections are disturbed (wiped) and often this may temporarily fix the problem. If any of the terminals are relaxed or oxidised the simple action of unplugging and plugging the ECM may temporarily repair an intermittent problem.

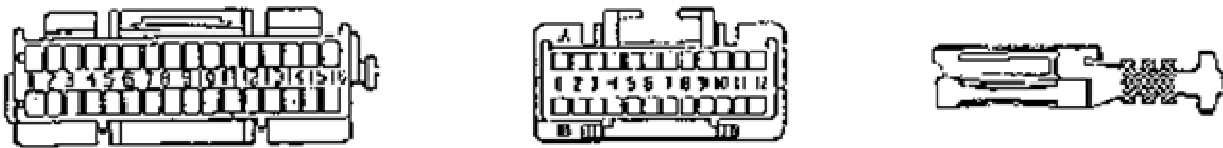
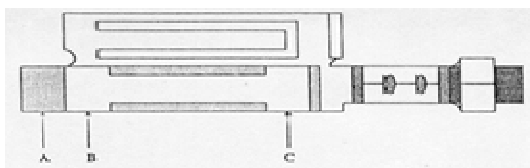


Figure 1. Terminals & connectors for Delco system

To check individual terminals carefully insert a 0.95mm drill bit into each terminal to ensure that there is a reliable connection between the ECM and the vehicle plug. If any terminals appear to be loose or relaxed, the terminal will have to be backed out of the connector and be re-tightened. It is advisable to do each terminal individually, that is back it out of the plug, retighten it then re-install into the connector. This is done to avoid any confusion and prevent replacing the terminal into the wrong place in the housing. To remove the terminal from the housing, insert the correct extraction tool and remove the terminal from the rear of the plug. To retighten the terminal once it is out of the housing insert the 0.95mm drill bit used previously, and very gently re crimp the terminal in the places as shown in figure 2.

Ensure there is sufficient friction between the terminal and drill shank, remove the drill bit replace the terminal into the housing and proceed to the next terminal.

Figure 2. Shows the terminal removed from the connector. A is the 0.95mm drill. B & C show where the connector must be gently re crimped to increase the tension on the ECM terminal.



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