

Injectronics

TECHNICAL BULLETIN

BMW – 5 & 7 SERIES

#T0067

Make: BMW

Model: 5 & 7 Series

Subject: Running rich

Some early to mid 1980 BMW 6 cylinder engines used the Bosch L Jetronic system. This was the earliest of the air flap type engine management systems and used a 35 pin ECM.

The ECM pin 4 monitors crank signal from the starter motor and uses this signal to give start up enrichment. There should be zero volts at this pin when the engine is running or the key is just in the on position. When cranking there should be a crank voltage of approx 10 volts depending on the voltage drop.

Injectronics has had many customers call to say they have a running rich BMW and upon questioning we have learnt that starter motor work has been performed. In some cases a relay has been wired into the starter circuit, which causes a voltage to be present on pin 4 when the engine is running. This of course will make the engine run rich. To confirm this is your fault check the voltage at pin 4 with the engine running and it should be zero volts. If there is a voltage present, disconnect the relay or temporarily cut the wire going to pin 4.