

# Injectronics

## TECHNICAL BULLETIN

### TOYOTA – 3SFE

#T0020

**Make:** Toyota

**Model:** 3SFE

**Subject:** Injector impedance problem

The Toyota series Camry / Celica (3SF) vehicles have two different values of resistance for the injectors.





- Low ohm = 1.6 ohm
- High ohm = 16 ohm

Problems arise when a motor transplant is performed and the engine is incorrect or a Japanese import is supplied. After installation of the replacement engine the vehicle will run for a short duration, then it stops and will not restart.

Injectronics has found that if the above problem exists, ECM damage may have occurred due to an engine with lower resistance injectors being fitted. The ECM will then need repairing or replacing.

To avoid any problems when doing an entire engine swap, Injectronics suggests checking the resistance of the injectors on the motor being replaced, and the replacement motor. This will ensure that an expensive ECM repair can be avoided.

Another method of checking which system is fitted to the vehicle is to check for an injector ballast pack on the fire wall. Vehicles fitted with a ballast pack have lower ohm injectors.

CONNECTOR SHAPE	SHAPE OF INJECTION PORT	RESISTANCE VALUE
	Pintle type	Low resistance
	Pintle type	High resistance
	Hole type	Low resistance
	Hole type	High resistance