

## P0113 2005 TOYOTA COROLLA Intake Air Temperature Circuit High Input 3ZZ-FE Engine

### Symptoms

- Engine Light ON (or Service Engine Soon Warning Light)

### Possible causes

- Faulty Intake Air Temperature (IAT) sensor
- Dirty air filter
- Intake Air Temperature (IAT) sensor harness is open or shorted
- Intake Air Temperature (IAT) sensor circuit poor electrical connection

### Description

The Intake Air Temperature (IAT) sensor is built into mass air flow sensor or in some vehicles mounted to the air filter duct housing. The sensor detects intake air temperature and transmits a signal to the Engine Control Module (ECM). The temperature sensing unit uses a thermistor which is sensitive to the change in temperature. Electrical resistance of the thermistor decreases in response to the temperature rise. The Intake Air Temperature signal is used as an input for various systems in the vehicle.

### When is the code detected?

- An excessively high voltage from the sensor is sent to ECM.