SFI SYSTEM (3MZ–FE)

100NS–01

ON–VEHICLE INSPECTION

1. CHECK THROTTLE BODY

(a) Listen to the throttle control motor operating sounds.
  (1) Turn the ignition switch ON.
  (2) When pressing the accelerator pedal position sensor lever, listen to the running motor. Make sure no friction noise comes from the motor.

If friction noise exists, replace the throttle body.

(b) Inspect the throttle position sensor.
  (1) Connect the hand–held tester to the DLC3.
  (2) Turn the ignition switch ON.
  (3) Check that the MIL turns off.
  (4) Under CURRENT DATA, the throttle valve opening percentage (THROTTLE POS) should be within the standard range below.

Standard throttle valve opening percentage: 60 % or more

If the percentage is less than 60 %, replace the throttle body.

NOTICE:

When checking the throttle valve opening percentage, the transmission should be in the neutral position.

2. CHECK ACCELERATOR PEDAL POSITION SENSOR

(a) Turn the ignition switch ON. Under CURRENT DATA, the voltage of the throttle position sensor should be within the standard range below.

Standard: 0.6 to 1.0 V

If the result is not as specified, replace the accelerator pedal position sensor.

3. CHECK CAMSHAFT TIMING OIL CONTROL VALVE (OCV) ASSY

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Start the engine and warm it up.
(d) Select the VVT from the ACTIVE TEST menu.
(e) Check the engine speed when the OCV is operated using the hand–held tester or OBDII scan tool.

Standard:

Condition	Specified Condition
VVT system is OFF (OCV is OFF)	Normal engine speed
VVT system is ON (OCV is ON)	Rough idle or engine stalled

If the result is not as specified, replace the OCV assy.