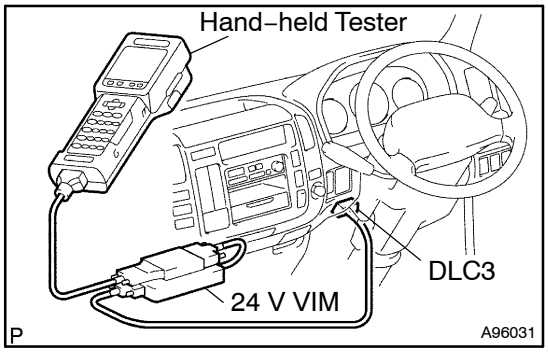
1114E–01

ON–VEHICLE INSPECTION



1. CHECK FUEL PRESSURE

(a) Connect the hand–held tester (with 24 V VIM) to the DLC3.

NOTICE:

Be sure to use the 24 V VIM, because the hand–held tester will be damaged if you do not use the 24 V VIM.

(b) Turn the ignition switch ON and turn the hand–held tester ON.

(c) Start the engine.

(d) Enter the following menus: DIAGNOSIS / OBD/MOBD / DATA LIST / ALL / COMMON RAIL and COMMON RAIL 2.

HINT:

For more information on the tester's DATA LIST mode, refer to the tester's instruction manual.

(e) Check that the internal fuel pressure of the common rail is within the specification below.

DATA LIST:

Hand–held Tester Display	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
COMMON RAIL	Common rail pressure status/ Min.: 0 MPa, Max.: 255 MPa (2,600 kgf/cm^2, 36,988 psi)	• Idling: 25 to 35 MPa (255 to 357 kgf/cm^2, 3,625 to 5,075 psi) • Engine running at 3,000 rpm: 80 to 90 MPa (816 to 918 kgf/cm^2, 11,604 to 13,055 psi)	—
COMMON RAIL 2	Common rail pressure status/ Min.: 0 MPa, Max.: 255 MPa (2,600 kgf/cm^2, 36,988 psi)	• Idling: 25 to 35 MPa (255 to 357 kgf/cm^2, 3,625 to 5,075 psi) • Engine running at 3,000 rpm: 80 to 90 MPa (816 to 918 kgf/cm^2, 11,604 to 13,055 psi)	—

2. CHECK FUEL LEAKS

(a) Enter the following menus: DIAGNOSIS / OBD/MOBD / ACTIVE TEST.

(b) According to the display on the tester, perform the ACTIVE TEST.

Hand–held Tester Display	Test Details	Diagnostic Note
FUEL LEAK TEST	Maintain engine speed at 2,000 rpm, and pressurize common rail internal fuel pressure to 160 MPa (1,632 kgf/cm^2, 23,215 psi) ON or OFF	Confirm that there is no leak in fuel system when common rail internal fuel pressure is high

(c) Turn the ignition switch OFF.

(d) Disconnect the hand–held tester from the DLC3.