TOYOTA SERVICE BULLETIN

Group: 03 No.: 01 Date: Feb, 19

Model: Hiace

Subject: Corrections to Repair Manual RM26T6E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
SERVICE SPECIFICATIONS	2TR-FE FUEL	SERVICE DATA (2015/01-)
2TR-FE FUEL	FUEL SYSTEM	ON-VEHICLE INSPECTION (2014/10-)

The revised pages listed above are attached.

(The corrected parts are indicated by arrows.)

This bulletin does not cause the Flat Rate Manual to be changed

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2TR-FE FUEL

SERVICE DATA

[Corrected]

FUEL SYSTEM

Standard fuel pressure	at idle	w/o Dual VVT-i: 263 to 344 kPa (2.7 to 3.5 kgf/cm^2, 38 to 50 psi) w/ Dual VVT-i: 300 to 389 kPa (3.1 to 4.0 kgf/cm^2, 44 to 56 psi)
	remains for 5 minutes after engine has stopped	147 kPa (1.5 kgf/cm^2, 21 psi) or more

FUEL INJECTOR (w/ Dual VVT-i)

Standard resistance	1 - 2	20°C (68°F)	11.6 to 12.4 Ω
Standard injection volume		82 to 99 cc (5.0 to 6.0 cu. in.) in 15 seconds	
Standard difference between each fuel injector assembly		17 cc (1.0 cu. in.) or less	
Standard fuel drop		1 drop or less per 25 minutes	

FUEL INJECTOR (w/o Dual VVT-i)

Standard resistance	1 - 2	20°C (68°F)	11.6 to 12.4 Ω
Standard injection volume		71 to 85 cc (4.3 to 5.2 cu. in.) in 15 seconds	
Standard difference between each fuel injector assembly		14 cc (0.9 cu. in.) or less	
Standard fuel drop		1 drop or less per 25 minutes	

FUEL PUMP

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	0.2 to 3.0 Ω

FUEL SENDER GAUGE ASSEMBLY

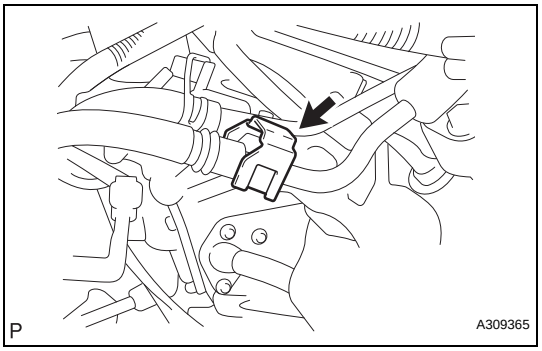
Tester Connection	Condition	Specified Condition
2 - 3	Float position is F (upper)	13.5 to 16.5 Ω
	Float position is E (lower)	405.5 to 414.5 Ω

TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Fuel delivery pipe sub-assembly x cylinder head	12	122	9
Fuel pressure pulsation dumper assembly x fuel delivery pipe sub-assembly	9.0	92	80 in.*lbf
Fuel tank bands x body	45	459	33
Parking brake cable No.3 x body	15	148	11

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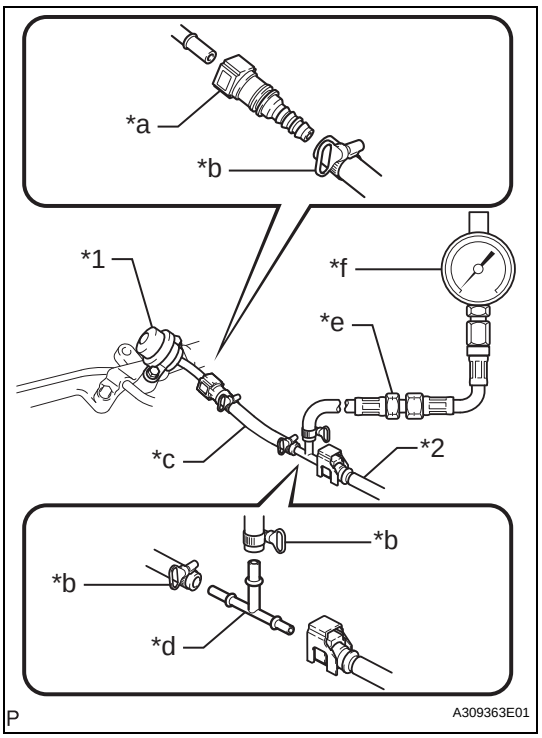
FU



(d) Pinch and pull the No. 1 fuel hose (fuel tube connector) to disconnect it from the fuel pressure pulsation damper assembly.

CAUTION:

- **Always read the precautions (See page FU-1) before disconnecting the fuel tube connector (quick type).**
- **The fuel tube may spray fuel as a result of pressure that remains in it. Do not allow fuel to be sprayed in the engine compartment.**



(e) Install SST (pressure gauge) as shown in the illustration.

SST 09268-45101 (09268-41250, 09268-41260, 09268-41280, 09268-41500, 09268-41700, 95336-08070)

Text in Illustration

*1	Fuel Pressure Pulsation Damper Assembly
*2	No. 1 Fuel Hose
*a	SST (Fuel Tube Connector)
*b	SST (Hose Band)
*c	SST (Hose)
*d	SST (T-Joint)
*e	SST (Hose Joint)
*f	SST (Pressure Gauge)

(f) Wipe off any gasoline.

(g) Reconnect the negative terminal cable.

(h) Operate the fuel pump.

(1) Connect the intelligent tester to the DLC3.

(2) Turn the ignition switch to ON.

NOTICE:

Do not start the engine.

(3) Turn the intelligent tester on.

(4) Enter the following menus: Powertrain / Engine and ECT / Active Test / Control the Fuel Pump / Speed.

(i) Measure the fuel pressure.

[Corrected]

Standard fuel pressure:

w/o Dual VVT-i:

263 to 344 kPa (2.7 to 3.5 kgf/cm^2, 38 to 50 psi)

w/ Dual VVT-i:

300 to 389 kPa (3.1 to 4.0 kgf/cm^2, 44 to 56 psi)

If the pressure is higher than the specification, replace the fuel pressure regulator assembly.

If the pressure is lower than the specification, check the fuel hoses and connections, fuel pump, fuel filter assembly and fuel pressure regulator assembly.

(j) Start the engine.

(k) Measure the fuel pressure.

[Corrected]

Standard fuel pressure:

w/o Dual VVT-i:

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[Corrected]

263 to 344 kPa (2.7 to 3.5 kgf/cm^2, 38 to 50 psi)
w/ Dual VVT-i:
300 to 389 kPa (3.1 to 4.0 kgf/cm^2, 44 to 56 psi)

If the pressure is not as specified, check the fuel pump, fuel pressure regulator assembly and/or fuel injector assemblies.

(l) Stop the engine.

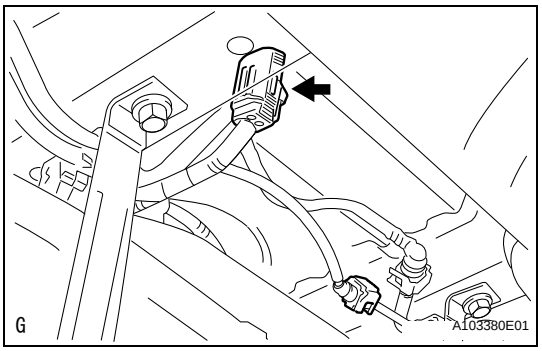
(m) Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.
Standard fuel pressure:
147 kPa (1.5 kgf/cm^2, 21 psi) or more
If the pressure is not as specified, check the fuel pump, fuel pressure regulator assembly and/or fuel injector assemblies.

(n) After checking the fuel pressure, disconnect the negative terminal cable and carefully remove SST and the fuel tube connector to prevent gasoline from spraying.

(o) Reconnect the No. 1 fuel hose (fuel tube connector) to the fuel pressure pulsation damper assembly.

2. CHECK FUEL PUMP OPERATION AND FUEL LEAK

(a) When using the intelligent tester
(1) Connect the intelligent tester to the DLC3.
(2) Turn the ignition switch to the on position and intelligent tester main switch ON.
NOTICE:
Do not start the engine.
(3) Select the Active Test mode on the intelligent tester.
HINT:
Please refer to the intelligent tester operator's manual for further details.



(b) When not using the intelligent tester.
(1) Disconnect the fuel pump connector.
(2) Using a service wire, connect terminals FP and +B of the relay block.
NOTICE:
Pay attention to the terminal connecting position to avoid a malfunction.
(3) Turn the ignition switch to the ON position, and check that the fuel pump operates.
NOTICE:
Do not start the engine.

(c) Check that there are no fuel leaks anywhere on the fuel system after doing maintenance.

(d) Check that the pulsation damper screw rises up when the fuel pump operates.
If operation is not as specified, check the following parts:
- Fusible link
- Fuel pump

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