TOYOTA SERVICE BULLETIN

Group: 04 No.: 05 Date: Apr, 14

Landcruiser VDJ76/78/79

Corrections to Repair Manual RM0584E

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
SPECIFICATIONS	1VD-FTV FUEL	SERVICE DATA (2007/01 - 2012/08)
		SERVICE DATA(2012/08 -)
1VD-FTV FUEL	FUEL SUPPLY PUMP	INSPECTION(2012/08 -)
	FUEL TEMPERATURE SENSOR	INSPECTION

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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1VD-FTV FUEL

SERVICE DATA

(2007/01-2012/08)

SS

Common rail assembly			Resistance (1 - 2)	16.4 kΩ or less at 25°C (77°F)	
			Resistance (2 - 3)	3 kΩ or less at 25°C (77°F)	
Injector assembly			Resistance (1 - 2)	0.85 to 1.05 Ω at 20°C (68°F)	
Supply pump (suction control valve)			Resistance (1 - 2)	1.9 to 2.3 Ω at 20°C (68°F)	
Supply pump (fuel temperature sensor)			Resistance (1 - 2)	2.32 to 2.59 kΩ at 20°C (68°F)	
				0.310 to 0.326 kΩ at 80°C (176°F)	
Level warning switch			Resistance (1 - 2)	Float upper end position	Below 1 Ω
				Float lower end position	10 MΩ or higher
Clogging switch			Resistance (1 - 2)	Below 1 Ω at 20°C (68°F)	
Fuel tank select valve (for main)			Resistance (1 - Body ground)	10 MΩ or higher	
			Resistance (2 - Body ground)		
			Resistance (1 - 2)	33 to 39 Ω at 20°C (68°F)	
Fuel tank select valve (for return)			Resistance (1 - Body ground)	10 MΩ or higher	
			Resistance (2 - Body ground)		
			Resistance (1 - 2)	33 to 39 Ω at 20°C (68°F)	
w/o Airbag System: Fuel sender gauge assembly			Resistance (1 - 2)	Float upper end position	1.0 to 4.0 Ω
				Float lower end position	105.0 to 115.0 Ω
w/ Airbag System: Fuel sender gauge assembly	for Single Tank Type		Resistance (2 - 3)	F (Upper End)	12 to 18 Ω
				E (Lower End)	405.0 to 415.0 Ω
w/ Airbag System: Fuel sender gauge assembly	for Double Tank Type	for Fuel Main Tank	Resistance (1 - 2)	F (Upper End)	12 to 18 Ω
				E (Lower End)	405.0 to 415.0 Ω
		for Fuel Sub Tank	Resistance (2 - 3)	F (Upper End)	12 to 18 Ω
				E (Lower End)	405.0 to 415.0 Ω
w/o Airbag System: Fuel tank select switch			Resistance (2 - 3)	Switch ON	Below 1 Ω
				Switch OFF	1 MΩ or higher
w/ Airbag System: Fuel tank select switch			Resistance (3 - 4)	Switch OFF	1 MΩ or higher
				Switch ON	Below 1 Ω

[Corrected]

SERVICE DATA

(2012/08-)

Common rail assembly			Resistance (1 - 2)	16.4 kΩ or less at 25°C (77°F)	
			Resistance (2 - 3)	3 kΩ or less at 25°C (77°F)	
Injector assembly			Resistance (1 - 2)	0.85 to 1.05 Ω at 20°C (68°F)	
Supply pump (suction control valve)			Resistance (1 - 2)	1.9 to 2.3 Ω at 20°C (68°F)	
Supply pump (fuel temperature sensor)			Resistance (1 - 2)	2.32 to 2.59 kΩ at 20°C (68°F)	
				0.310 to 0.326 kΩ at 80°C (176°F)	
Level warning switch			Resistance (1 - 2)	Float upper end position	Below 1 Ω
				Float lower end position	10 MΩ or higher

[Corrected]

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If the result is not as specified, replace the fuel supply pump.

INSPECTION

(2012/08-)

1. INSPECT FUEL SUPPLY PUMP

(a) Inspect the suction control valve.

(1) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	1.9 to 2.3 Ω

[Corrected]

If the result is not as specified, replace the fuel supply pump.

(b) Inspect the fuel temperature sensor.

(1) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	2.32 to 2.59 kΩ
1 - 2	80°C (176°F)	0.310 to 0.326 kΩ

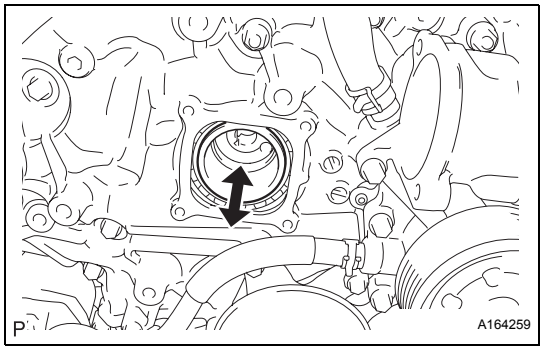
If the result is not as specified, replace the fuel temperature sensor.

INSTALLATION

(2007/01-2012/08)

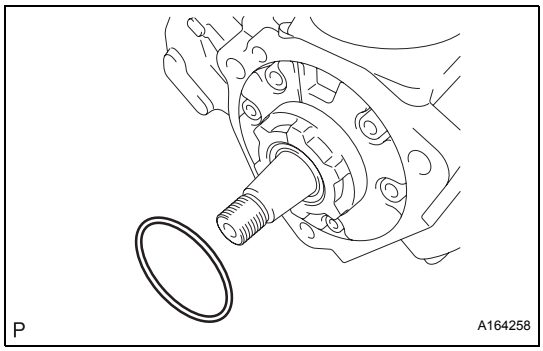
1. INSTALL FUEL SUPPLY PUMP

(a) Check that the supply pump drive gear in the timing chain cover moves back and forth smoothly.



(b) Install a new O-ring to the pump.

(c) Apply a light coat of engine oil to the O-ring.

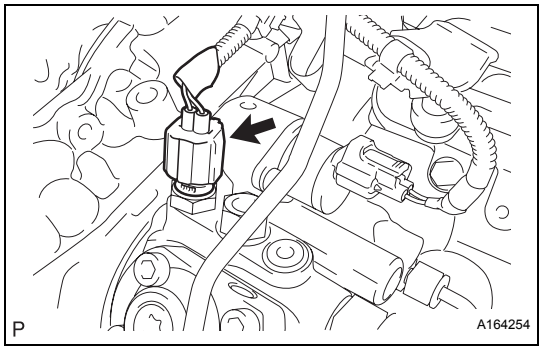


FU

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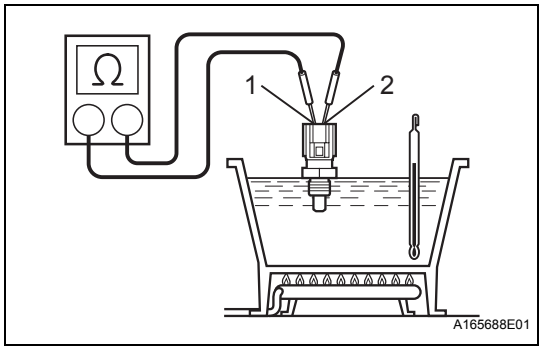
REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE INTERCOOLER ASSEMBLY**
   (a) Remove the intercooler (see page ○○-○○).
3. **REMOVE FUEL TEMPERATURE SENSOR**
   (a) Disconnect the sensor connector.
   (b) Using a 19 mm deep socket wrench, remove the sensor.
   (c) Remove the O-ring from the sensor.



INSPECTION

1. **INSPECT FUEL TEMPERATURE SENSOR**
   (a) Measure the resistance according to the value(s) in the table below.



[Corrected]

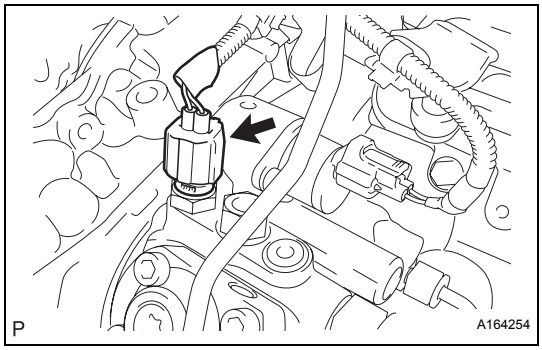
Standard Resistance

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	2.32 to 2.59 kΩ
1 - 2	80°C (176°F)	0.310 to 0.326 kΩ

NOTICE:
When checking the fuel temperature sensor in water, keep the terminals dry. After the check, wipe the sensor dry.
If the result is not as specified, replace the sensor.

FU

INSTALLATION



1. **INSTALL FUEL TEMPERATURE SENSOR**
   (a) Install a new O-ring to the sensor.
   (b) Using a 19 mm deep socket wrench, install the sensor.
   Torque: 22 N*m (224 kgf*cm, 16 ft.*lbf)
   (c) Connect the sensor connector.
2. **INSTALL INTERCOOLER ASSEMBLY**
   (a) Install the intercooler (see page ○○-○○).
3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
4. **INSPECT FOR COOLANT LEAK (See page)**

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