TOYOTA SERVICE BULLETIN

Group: 03 No.: 05 Date: May, 17

Model: Prado 150

Subject: Corrections to Repair Manual RM24N1E

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	1GR-FE FUEL	SERVICE DATA (2013/08 - 2014/08)
		SERVICE DATA (2014/08 -)
1GR-FE FUEL	FUEL INJECTOR	INSPECTION (2013/08 - 2014/08)
		INSPECTION (2014/08 -)

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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1GR-FE FUEL

SERVICE DATA

(2013/08-2014/08)

Fuel pressure	Standard fuel pressure	at idle			321 to 327 kPa (3.27 to 3.33 kgf/cm^2, 46.5 to 47.4 psi)
		remains for 5 minutes after engine has stopped			147 kPa (1.5 kgf/cm^2, 21 psi) or higher
Fuel injector	Standard resistance		Tester Connection	Condition	Specified Condition
			1 - 2	20°C (68°F)	11.6 to 12.4 Ω
	Standard injection volume		89 to 107 cm^3 (5.4 to 6.5 cu. in.) per 15 seconds		
	Difference between each injector		15 cm^3 (0.9 cu. in.) or less		
	Standard fuel leakage		1 drop or less per 12 minutes		
Fuel pump (for Single Tank Type)		Standard resistance	Tester Connection	Condition	Specified Condition
			1 - 2	20°C (68°F)	0.2 to 3.0 Ω
Fuel pump (for Double Tank Type)		Standard resistance	Tester Connection	Condition	Specified Condition
			1 - 2	20°C (68°F)	0.2 to 3.0 Ω
Fuel sender gauge assembly (for Single Tank Type)		Standard resistance	Tester Connection	Condition	Specified Condition
			2 - 3	Float position is F (upper)	12 to 18 Ω
				Float position is E (lower)	405 to 415 Ω
Fuel sender gauge assembly (for Double Tank Type)	for Fuel Main Tank	Standard resistance	Tester Connection	Condition	Specified Condition
			2 - 3	Float position is F (upper)	12 to 18 Ω
				Float position is E (lower)	405 to 415 Ω
	for Fuel Sub Tank	Standard resistance	Tester Connection	Condition	Specified Condition
			1 - 2	Float position is F (upper)	12 to 18 Ω
				Float position is E (lower)	405 to 415 Ω

[Corrected]

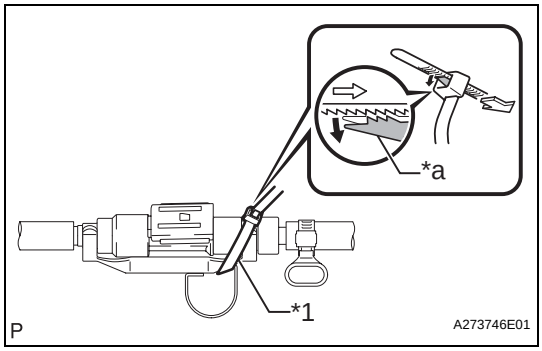
SERVICE DATA

(2014/08-)

Fuel pressure	Standard fuel pressure	at idle			321 to 327 kPa (3.27 to 3.33 kgf/cm^2, 46.5 to 47.4 psi)
		remains for 5 minutes after engine has stopped			147 kPa (1.5 kgf/cm^2, 21 psi) or higher
Fuel injector	Standard resistance		Tester Connection	Condition	Specified Condition
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	Standard fuel leakage		1 drop or less per 12 minutes		
Fuel pump (for Single Tank Type)		Standard resistance	Tester Connection	Condition	Specified Condition
			1 - 2	20°C (68°F)	0.2 to 3.0 Ω
Fuel pump (for Double Tank Type)		Standard resistance	Tester Connection	Condition	Specified Condition
			1 - 2	20°C (68°F)	0.2 to 3.0 Ω

[Corrected]

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(10) Pass SST (tie band) through the loop on the handle of SST (clamp) to secure SST (clamp) to SST (adapter).
SST 09268-31014 (09268-41800)
Text in Illustration

*1	SST (Tie Band)
*a	Lock

NOTICE:
- **As SST (tie band) does not completely prevent SST (clamp) from becoming loose, do not subject the parts to any impacts while using them.**
- **Before using SST (tie band), make sure that there is no deterioration, damage or cracks. If there are any abnormalities, replace SST.**

HINT:
When removing SST (tie band), disengage the lock.

(11) Check that SST (clamp) and SST (adapter) cannot be easily separated.

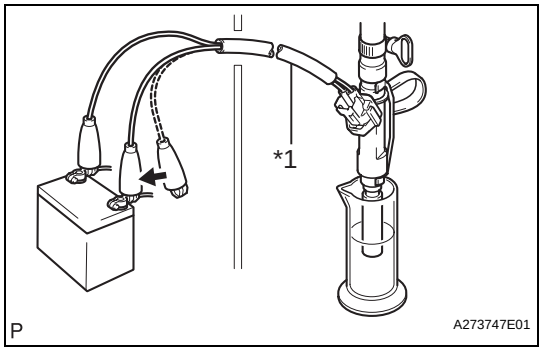
(12) Put the injector into a graduated cylinder.
CAUTION:
Install a suitable vinyl tube to the injector to contain any gasoline spray.

(13) Connect the intelligent tester to the DLC3.

(14) Turn the ignition switch to ON.
NOTICE:
Do not start the engine.

(15) Turn the intelligent tester on.

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



(17) Connect SST (EFI inspection wire) to the injector and the battery for 15 seconds and measure the injection volume with a graduated cylinder. Test each injector 2 or 3 times.
SST 09842-30080
Standard injection volume:

[Corrected]

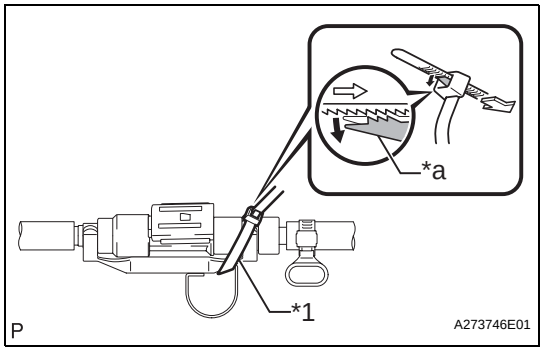
89 to 107 cm^3 (5.4 to 6.5 cu. in.) per 15 seconds

Difference between each injector:
15 cm^3 (0.9 cu. in.) or less
Text in Illustration

*1	SST (EFI Inspection Wire)
➡	Connect

NOTICE:
- **Make sure that SST (EFI inspection wire) is securely connected.**

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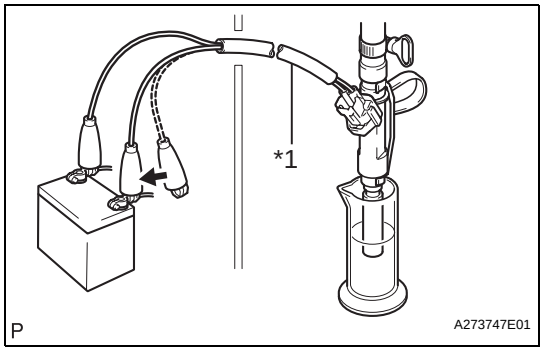
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SST 09268-31014 (09268-41800)
Text in Illustration

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HINT:
When removing SST (tie band), disengage the lock.

(11) Check that SST (clamp) and SST (adapter) cannot be easily separated.
(12) Put the injector into a graduated cylinder.
CAUTION:
Install a suitable vinyl tube to the injector to contain any gasoline spray.
(13) Connect the intelligent tester to the DLC3.
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SST 09842-30080
Standard injection volume:

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