TOYOTA SERVICE BULLETIN

Group: 04 No.: 02 Date: Feb, 19

Model: Prado (KDJ150)

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	1KD-FTV STARTING	SERVICE DATA (2013/08-)
1KD-FTV STARTING	GLOW PLUG (w/o DPF)	ON-VEHICLE INSPECTION (2013/08-2014/08)
1KD-FTV STARTING	GLOW PLUG (w/o DPF)	ON-VEHICLE 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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1KD-FTV STARTING

SERVICE DATA

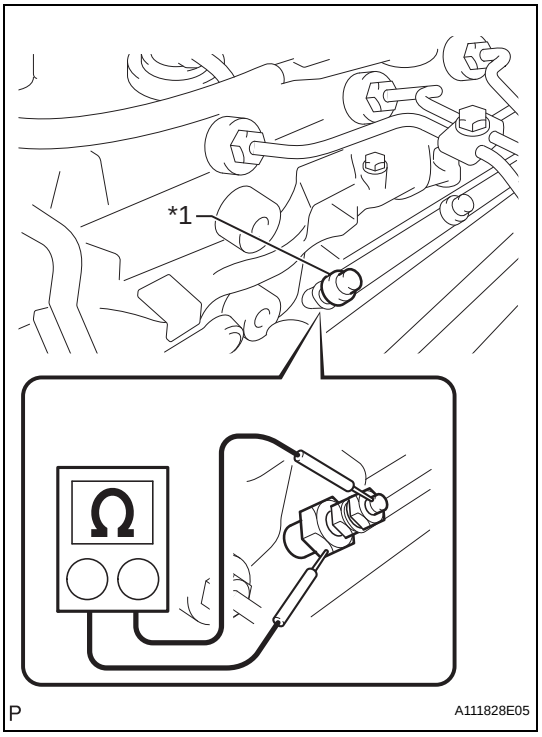
[Corrected]

Glow plug		Standard resistance	Tester condition		Specified condition
			Glow plug terminal - Body ground		0.15 to 1.75 Ω
2.2 kW Type	No-load characteristics	Standard current		120 A or less at 11.5 V	
	Magnet starter switch assembly	Standard resistance	Tester condition	condition	Specified condition
			Terminal 50 - Terminal C	Always	Below 1 kΩ
			Terminal 50 - Starter switch body	Always	Below 2 kΩ
	Brush length	Standard length		16.5 mm (0.650 in.)	
		Minimum length		9.0 mm (0.354 in.)	
	Brush holder	Standard resistance	Tester condition	condition	Specified condition
			Positive (+) brush holder - Negative (-) brush holder	Always	10 kΩ or higher
	Starter brush holder assembly	Brush spring lead	Standard	27 to 33 N (2.7 to 3.3 kgf, 5.9 to 7.3 lbf)	
			Minimum	18 N (1.8 kgf, 4.0 lbf)	
	Starter yoke assembly	Standard resistance	Tester condition	condition	Specified condition
			Terminal C - Brush	Always	Below 1 kΩ
			Terminal C - Starter yoke Body	Always	10 kΩ or higher
	Starter armature assembly	Standard resistance	Tester condition	condition	Specified condition
			Segment - Segment	Always	Below 1 kΩ
			Segment - Coil Core	Always	10 kΩ or higher
		Maximum circle runout		0.05 mm (0.00197 in.)	
		Standard commutator diameter		35.0 mm (1.38 in.)	
		Minimum commutator diameter		34.0 mm (1.34 in.)	
		Standard undercut depth		0.7 mm (0.0276 in.)	
		Minimum undercut depth		0.2 mm (0.0787 in.)	

SS

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ST



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

Standard Resistance

Tester Connection	Specified Condition
Glow plug terminal - Body ground	0.15 to 1.75 Ω

Text in Illustration

*1	Screw Grommet	[Corrected]

If the result is not as specified, replace the glow plug.

NOTICE:

- **Be careful not to damage the glow plug pipes, as this may cause an open circuit or shorten the life of the glow plugs.**
- **Do not allow oil or gasoline to contact the glow plug when cleaning it.**
- **Clean any oil on the terminal and Bakelite washer with a dry cloth.**
- **Do not apply more than 11 V to the glow plug, as this may cause an open circuit.**

(c) Install the No. 1 glow plug connector (See page ST-13).

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

   NOTICE:

   - **After turning the ignition switch off, waiting time may be required before disconnecting the cable from the battery terminal. Therefore, make sure to read the disconnecting the cable from the battery terminal notice before proceeding with work (See page).**
   - **When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See page).**

2. **REMOVE ELECTRIC EGR CONTROL VALVE ASSEMBLY (w/ EGR System)**

   (a) Remove the electric EGR control valve (See page).

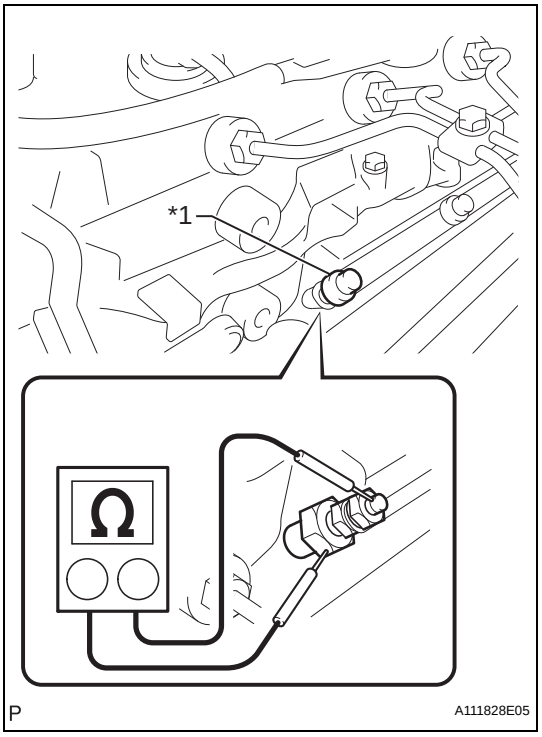
3. **DISCONNECT INLET HEATER WATER HOSE (w/o EGR System) (See page)**

4. **DISCONNECT NO. 4 VACUUM TRANSMITTING PIPE SUB-ASSEMBLY (w/o EGR System) (See page)**

5. **REMOVE NO. 1 INTAKE PIPE (w/o EGR System) (See page)**

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