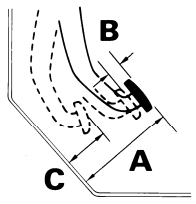
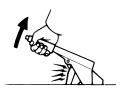
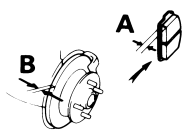
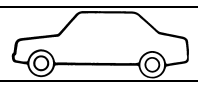
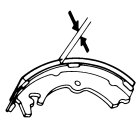
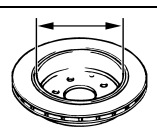
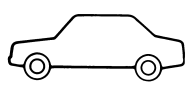
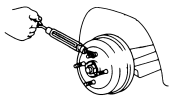
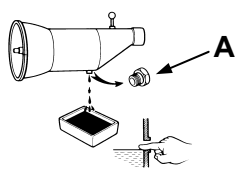
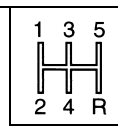
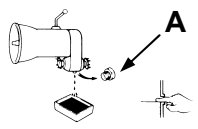
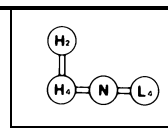
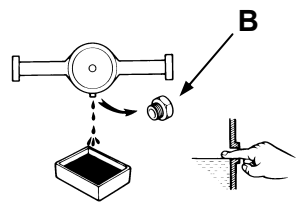
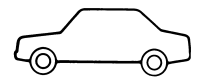
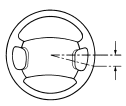
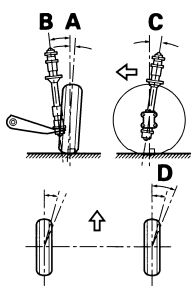
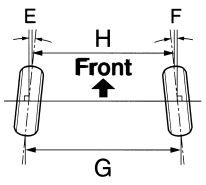
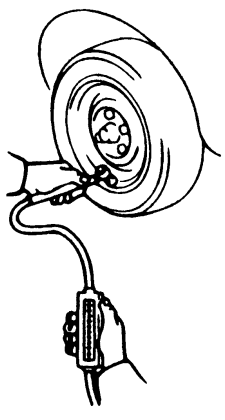
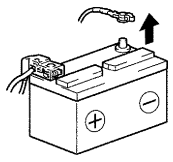
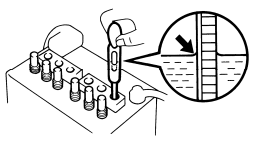
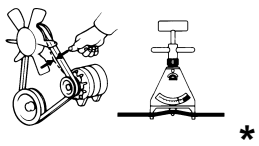
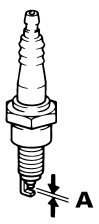
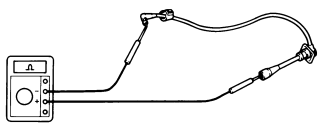
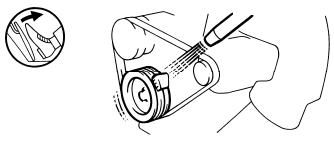
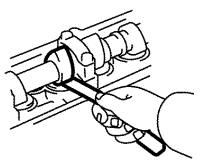
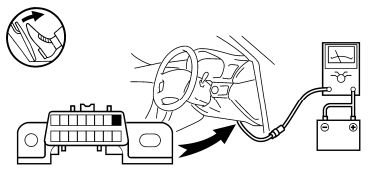
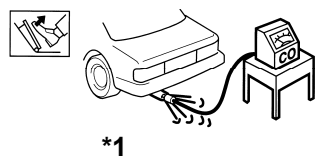
 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**20.0** *(0.787)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
		FZJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	**68** *(2.68)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	**1.0** *(0.039)*	
	B	**30** *(1.181)*	**16** *(0.63)*
 mm *(in.)*		———	**1.0** *(0.039)*
			**1.5** *(0.059)*
 mm *(in.)*		———	**211** *(8.307)*
			**297** *(11.693)*
			
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** (*266 to 530, 19.2 to 38.4)*	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		1FZ-FE	
 **liter** *(US qts, Imp. qts)*		**2.7** *(2.9, 2.4)*	
		API GL-4 or GL-5 SAE 75W-90	

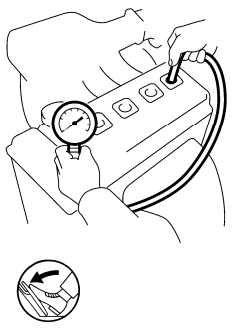
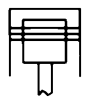
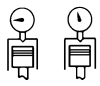
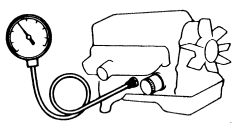
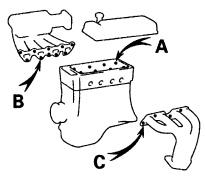
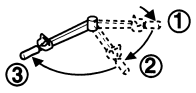
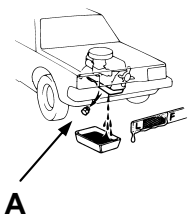
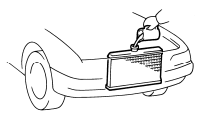
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*			
		2.8 to 2.9 *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
		w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent	
		w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent	
N*m *(kgf*cm, ft.*lbf)*	**A**	**37** *(380, 27)*	
	B	**49** *(500, 36)*	
		FZJ	
 **mm** *(in.)*		**40** *(1.6)*	
		FZJ	
	**A**	**1° 00' +/-45'** *(1.00 °+/-0.75 °)*	
	B	**13° 00' +/-45'** *(13.00 °+/-0.75 °)*	
	C	**4° 20' +/-60'** *(4.33 °+/-1.00 °)*	
	D	**29° 00' to 32° 00'** *(29.00 °to 32.00 °)*	
	**E + F**	**0° 00' +/-12'** *(0.0 °+/-0.2 °)*	
		0° 12' +/-12' *(0.20 °+/-0.2 °)*	
	G - H	**0 +/-2** *(0.00 +/-0.0787)*	
mm *(in.)*		**2 +/-2** *(0.0787 +/-0.0787)*	
		Unladen vehicle	Fully laden vehicle
 **kPa** *(kgf/cm^2 or bar, psi)*		Refer to Repair Manual Pub. No. RM0580E (Service Specifications)	

*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.

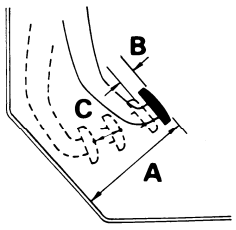
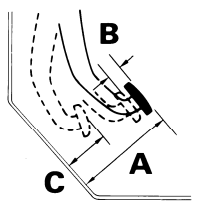
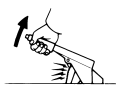
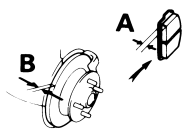
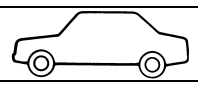
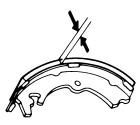
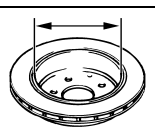
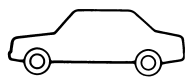
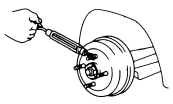
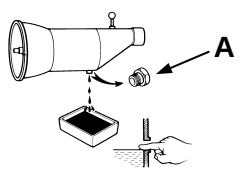
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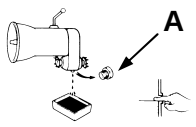
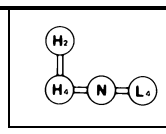
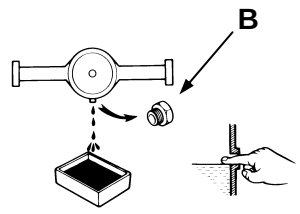
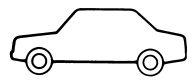
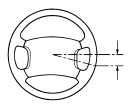
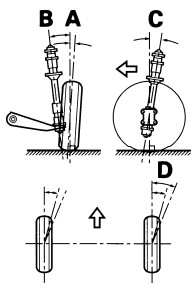
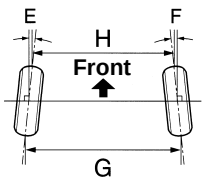
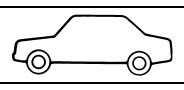
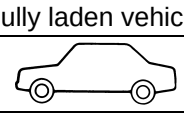
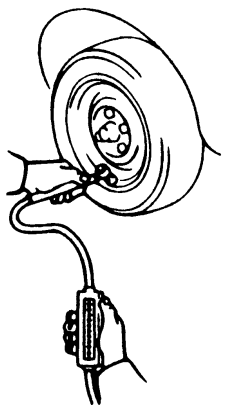
FZJ71, 76, 78, 79 2007/01- 2009/07

		FZJ
		———
 **20°C** *(68°F)*		**1.25 to 1.29**
		1FZ-FE
	cm³ *(cu. in.)*	**4477** *(273.1)*
 **mm** *(in.)* **N** *(kgf)*		**15.0 to 20.0** *(0.59 to 0.79)* ***245 to 392** *(25 to 40)*
*		**7.0 to 9.5** *(0.28 to 0.37)* ***196 to 343** *(20 to 35)*
	**DENSO**	**K16TR11**
A	**NGK**	**BKR5EKB-11**
	A **mm** *(in.)*	**1.1** *(0.043)*
 **kΩ**		**25**
 **BTDC**		**3°** (DLC3 Terminals 13 (TC) to 4 (CG) Connected)
 **mm** *(in.)*		**0.15 to 0.25** *(0.006 to 0.010)*
		**0.25 to 0.35** *(0.010 to 0.014)*
 **rpm**		**600 to 700** (DLC3 Terminal 9 (TAC) Connected)
 *1 **%**		**w/ TWC*2** **0.5** **w/o TWC*2 1.0 to 2.0**

 **kPa** *(kgf/cm², psi)*		**1176** *(12.0, 171)*
		**882** *(9.0, 128)*
		**98** *(1.0, 14)*
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.3)*
	3000 rpm 	**245 to 490** *(2.5 to 5.0, 36 to 71)*
 **N*m** *(kgf*cm, ft*lbf)*	**A**	 1: **39** *(400, 29)* 2: **90°** 3: **90°**
	B	**20** *(210, 15)*
	C	**39** *(400, 29)*
		1FZ-FE
 A **liter** *(US qts, Imp. qts)*		**6.9** *(7.3, 6.1)*
		**7.4** *(7.8, 6.5)*
	20W-50 **15W-40**	**API grade SL or SM multigrade engine oil**
	10W-30 **5W-30**	**API grade SL "Engine-Conserving", SM "Engine-Conserving" or ILSAC*3 multigrade engine oil**
N*m *(kgf*cm, ft*lbf)*	**A**	**25** *(250, 18)*
 **liter** *(US qts, Imp. qts)*		w/ Front Heater **13.8** *(14.6, 12.1)* w/ Front and Rear Heater **14.9** *(15.7, 13.1)* w/o Front and Rear Heater **12.7** *(13.4, 11.2)*

*1: In 2 mode (2500 rpm and idle) test, follow measurement order prescribed by applicable local regulations.
*2: Three-way Catalytic Converter *3: International Lubricant Standardization and Approval Committee

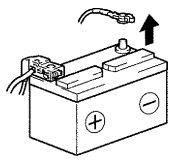
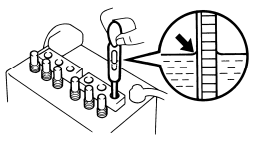
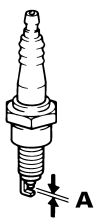
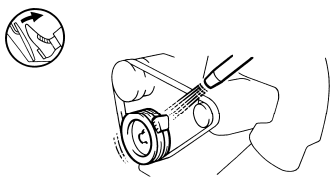
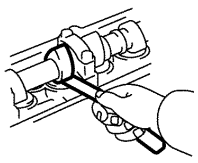
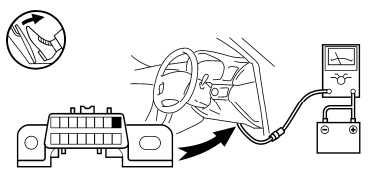
			
 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**20.0** *(0.787)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
		GRJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	**68** *(2.68)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	**1.0** *(0.039)*	
	B	**30** *(1.181)*	**16** *(0.63)*
 mm *(in.)*		—	**1.0** *(0.039)*
			**1.5** *(0.059)*
 mm *(in.)*		—	**211** *(8.307)*
			**297** *(11.693)*
			
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** (*266 to 530, 19.2 to 38.4)*	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		GRJ	
 **liter** *(US qts, Imp. qts)*		**2.7** *(2.9, 2.4)*	
		API GL-4 or GL-5 SAE 75W-90	

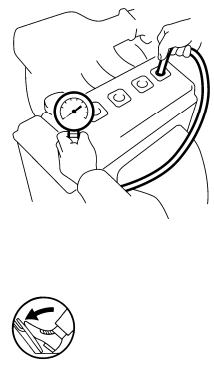
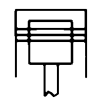
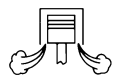
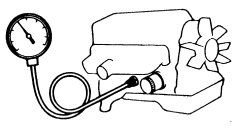
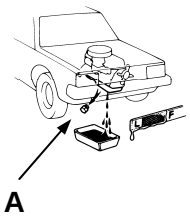
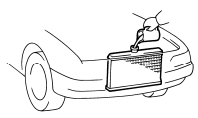
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*			
		2.8 to 2.9 *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
		w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent **w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	**A**	**37** *(380, 27)*	
	B	**49** *(500, 36)*	
		GRJ	
 **mm** *(in.)*		**40** *(1.6)*	
		GRJ	
	**A**	**1° 00' +/-45'** *(1.00° +/-0.75°)*	
	B	**13° 00' +/-45'** *(13.00° +/-0.75°)*	
	C	**4° 20' +/-60'** *(4.33° +/-1.00°)*	
	D	**29° 00' to 32° 00'** *(29.00° to 32.00°)*	
	**E + F**	**0° 00' +/-12'** *(0.0° +/-0.2°)*	
		0° 12' +/-12' *(0.20° +/-0.2°)*	
	G - H mm *(in.)*	**0 +/-2** *(0.00 +/-0.0787)*	
		2 +/-2 *(0.0787 +/-0.0787)*	
		Unladen vehicle 	Fully laden vehicle 
 **kPa** *(kgf/cm² or bar, psi)*		Refer to Repair Manual Pub. No. RM0582E (Service Specifications)	

*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.

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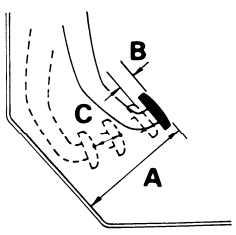
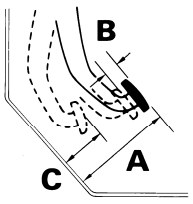
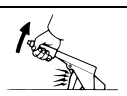
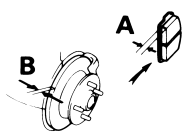
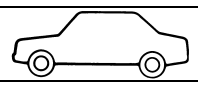
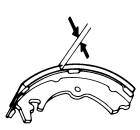
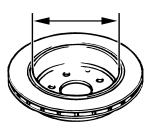
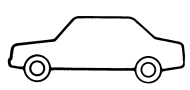
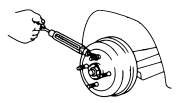
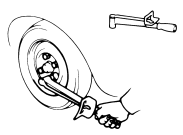
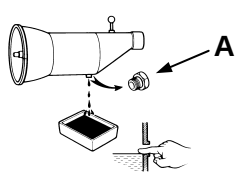
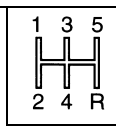
GRJ71, 76, 78, 79 2009/07 - 2012/08

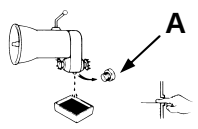
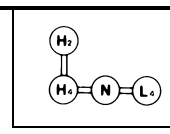
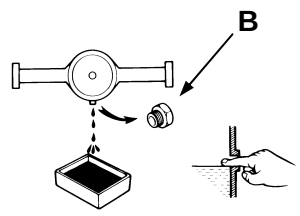
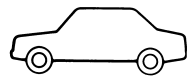
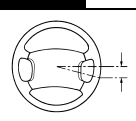
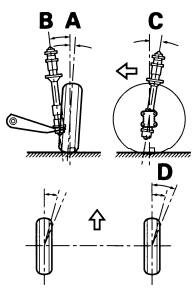
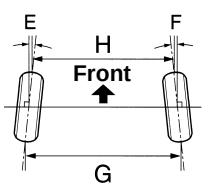
		GRJ
		———
 **20°C** *(68°F)*		**1.25 to 1.29**
		1GR-FE
	cm³ *(cu. in.)*	**3956** *(241.4)*
	**DENSO**	**K20HR-U11**
	NGK	**LFR6C-11**
	A **mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*
 **BTDC**		**8° to 12°** (DLC3 Terminals 13 (TC) to 4 (CG) Connected)
 **mm** *(in.)*		**0.15 to 0.25** *(0.00591 to 0.00984)*
		**0.29 to 0.39** *(0.0114 to 0.0154)*
 **rpm**		**750 to 850** (DLC3 Terminal 9 (TAC) Connected)

 **kPa** *(kgf/cm², psi)*		**1300** *(13.3, 189)*
		**1000** *(10.2, 145)*
		**100** *(1.0, 15)*
 **kPa** *(kgf/cm², psi)*	 **3000** rpm	**29** *(0.3, 4.2)*  **294 to 588** *(3.0 to 6.0, 43 to 85)*
		1GR-FE
 **liter** *(US qts, Imp. qts)*		**5.1** *(5.4, 4.5)*
		**5.4** *(5.7, 4.8)*
	15W-40 **20W-50**	**API grade SL or SM multigrade engine oil**
	5W-30 **10W-30**	**API grade SL "Engine-Conserving", API grade SM "Engine-Conserving" or ILSAC*1 multigrade engine oil**
N*m *(kgf*cm, ft*lbf)*	**A**	**40** *(408, 30)*
 **liter** *(US qts, Imp. qts)*		**w/o Heater: 10.1** *(10.6, 8.8)* **w/ Front Heater: 10.9** *(11.5, 9.5)* **w/ Front and Rear Heater: 11.8** *(12.4, 10.3)*

*1: International Lubricant Standardization and Approval Committee

TOYOTA MOTOR CORPORATION Technical Service Division

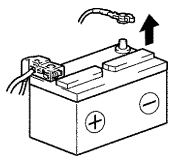
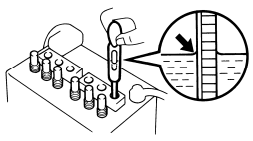
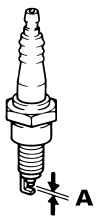
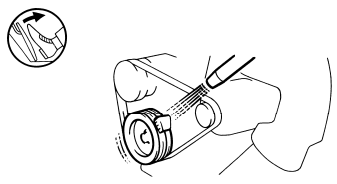
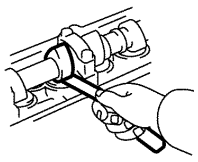
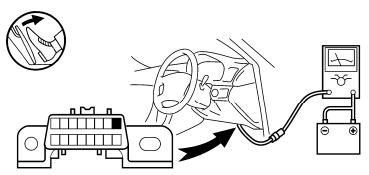
			
 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**20.0** *(0.787)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
		GRJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	**175.9 to 185.9** *(6.93 to 7.31)*
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	**116** *(4.56)*2* **125***(4.92)*3*	**127** *(4.99)*2* **136** *(5.35)*3*
		**SAE J1703 or FMVSS No. 116 DOT3**	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	**1.0** *(0.039)*	
	B	**30** *(1.181)*	**16** *(0.63)*
 mm *(in.)*		—	**1.0** *(0.039)*
			**1.5** *(0.059)*
 mm *(in.)*		—	**211** *(8.307)*
			**297** *(11.693)*
			
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** (*266 to 530, 19.2 to 38.4*)	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		GRJ	
 **liter** *(US qts, Imp. qts)*		**API GL-4 or GL-5 SAE 75W-90**	

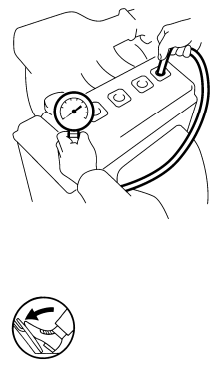
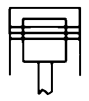
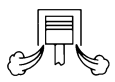
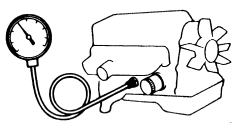
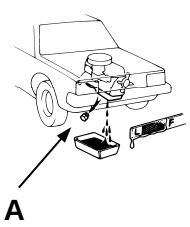
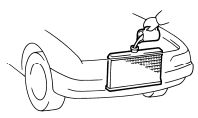
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*			
		2.8 to 2.9 *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
		w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent **w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	**A**	**37** *(380, 27)*	
	B	**49** *(500, 36)*	
		GRJ	
 **mm** *(in.)*		**40** *(1.6)*	
		GRJ	
	**A**	**1° 00' +/-45'** *(1.00°+/-0.75°)*	
	B	**13° 00' +/-45'** *(13.00°+/-0.75°)*	
	C	**4° 20' +/-60'** *(4.33°+/-1.00°)*4* **3° 35' +/-60'** *(3.58°+/-1.00°)*5*	
	D	**29° 00' to 32° 00'** *(29.00° to 32.00°)*	
	**E + F**	**0° 00' +/-12'** *(0.0°+/-0.2°)*	
	G - H **mm** *(in.)*	**0 +/-2** *(0.00 +/-0.0787)*	
		Unladen vehicle	Fully laden vehicle
 **kPa** *(kgf/cm²* or bar, psi)*			
		Please refer to Repair Manual (Service Specifications / Tire and Wheel)	

*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.
*2: w/o ABS: *3: w/ABS: *4: except Super Long *5: for Super Long

LAND CRUISER

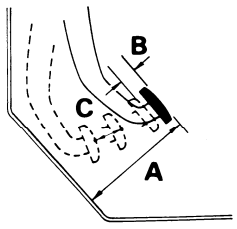
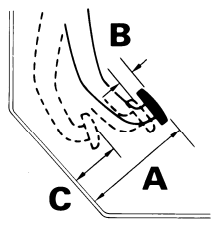
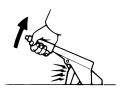
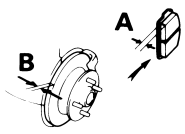
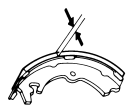
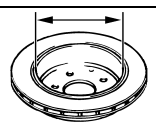
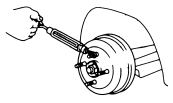
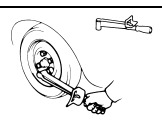
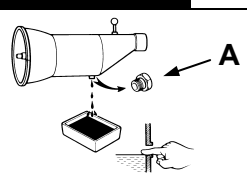
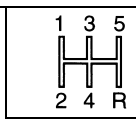
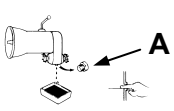
GRJ71, 76, 78, 79 2012/08 -

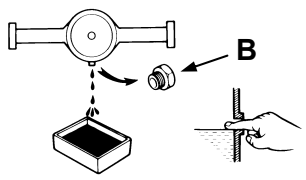
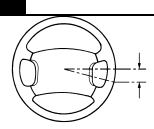
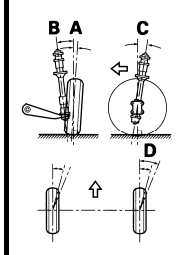
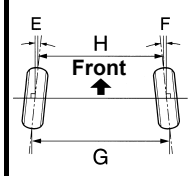
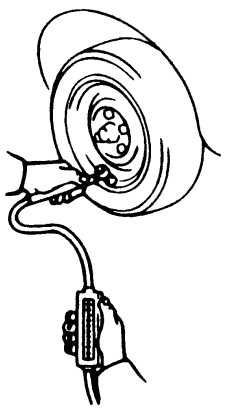
		GRJ
		———
 **20°C** *(68°F)*		**1.25 to 1.29**
		1GR-FE
	cm³ *(cu. in.)*	**3956** *(241.4)*
 A	**DENSO**	**K20HR-U11**
	NGK	**LFR6C-11**
	A **mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*
 **BTDC**		**8° to 12°** (DLC3 Terminals 13 (TC) to 4 (CG) Connected)
 **mm** *(in.)*		**0.15 to 0.25** *(0.00591 to 0.00984)*
		**0.29 to 0.39** *(0.0114 to 0.0154)*
 **rpm**		**750 to 850** (DLC3 Terminal 9 (TAC) Connected)

 **kPa** *(kgf/cm², psi)*		**1300** *(13.3, 189)*
		**1000** *(10.2, 145)*
		**100** *(1.0, 15)*
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.2)*
	3000 rpm	**294 to 588** *(3.0 to 6.0, 43 to 85)*
		1GR-FE
 A **liter** *(US qts, Imp. qts)*		**5.1** *(5.4, 4.5)*
		**5.4** *(5.7, 4.8)*
	5W-30 **10W-30**	**API grade SL "Energy-Conserving", API grade SM "Energy-Conserving", API grade SN "Resource-Conserving" or ILSAC*1 multigrade engine oil**
	15W-40 **20W-50**	**API grade SL, SM or SN multigrade engine oil**
N*m *(kgf*cm, ft*lbf)*	**A**	**40** *(408, 30)*
 **liter** *(US qts, Imp. qts)*		**w/o Heater: 10.1** *(10.6, 8.8)* **w/ Heater: 10.9** *(11.5, 9.5)*

*1: International Lubricant Standardization and Approval Committee

TOYOTA MOTOR CORPORATION Technical Service Division

 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**20.0** *(0.787)*	
		SAE J1703 or FMVSS No. 116 DOT3	
		HZJ, VDJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	**68** *(2.68)*	
		SAE J1703 or FMVSS No. 116 DOT3	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	**1.0** *(0.039)*	
	B	**30** *(1.181)*	**16** *(0.63)*
 mm *(in.)*		—	**1.0** *(0.039)*
			1.5 *(0.059)*
 mm *(in.)*		—	**211** *(8.307)*
			297 *(11.693)*
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** *(266 to 530, 19.2 to 38.4)*	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		1VD-FTV	**1HZ**
 **liter** *(US qts, Imp. qts)*		**2.7** *(2.9, 2.4)*	**2.2** *(2.3, 1.9)*
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	**2.1** *(2.2, 1.8)*
		API GL-4 or GL-5 SAE 75W-90	**API GL-4 or GL-5 SAE 90**

 **liter** *(US qts, Imp. qts)*		**2.8 to 2.9** *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
		w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent **w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(380, 27)*	
	B	**49** *(500, 36)*	
		HZJ, VDJ	
 mm *(in.)*		**40** *(1.6)*	
		HZJ, VDJ	
	A	**1° 00' +/-45'** *(1.00° +/-0.75°)*	
	B	**13° 00' +/-45'** *(13.00° +/-0.75°)*	
	C	**4° 20' +/-60'** *(4.33° +/-1.00°)*	
	D	**29° 00' to 32° 00'** *(29.00° to 32.00°)*	
	E + F	**0° 00' +/-12'** *(0.00° +/-0.2°)*	
		0° 12' +/-12' *(0.20° +/-0.2°)*	
	G - H	**0 +/-2** *(0.00 +/-0.0787)*	
	G - H mm *(in.)*	**2 +/-2** *(0.0787 +/-0.0787)*	
		Unladen vehicle	Fully laden vehicle
 **kPa** *(kgf/cm² or bar, psi)*		Refer to Repair Manual Pub. No. RM0580E (Service Specifications)	

*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.

LAND CRUISER **Diesel**

HZJ71, 76, 78, 79
VDJ76, 78, 79

2007/01 - 2007/12

		VDJ	HZJ
		———	
20°C *(68°F)*		**1.25 to 1.29**	
		1VD-FTV	**1HZ**
	cm³ *(cu. in.)*	**4461** *(272.2)*	**4164** *(254.0)*
		———	———
		———	**8.0 to 11.0** *(0.31 to 0.43)* ***200 to 390** *(20 to 40)*
mm *(in.)* **N** *(kgf)*		———	**16.0 to 22.0** *(0.63 to 0.87)* ***196 to 392** *(20 to 40)*
20°C *(68°F)* **Ω**		**1.0**	**0.75** *(12 V)* **3.1** *(24 V)*
28°C *(82°F)* **sec.**		**1.0**	**Malaysia, Bangladesh 1.0 Other 2.4**
mm (in.)		———	w/ ACSD*1 **0.65 to 0.71** *(0.0256 to 0.0280)* w/o ACSD*1 **0.85 to 0.91** *(0.0335 to 0.0358)*
		———	○ × × ×
kPa *(kgf/cm², psi)*		———	**14220 to 15200** *(145 to 155, 2062 to 2205)*
		———	**14710 to 15690** *(150 to 160, 2133 to 2276)*
mm *(in.)*		———	**0.15 to 0.25** *(0.006 to 0.010)*
		———	**0.35 to 0.45** *(0.014 to 0.018)*

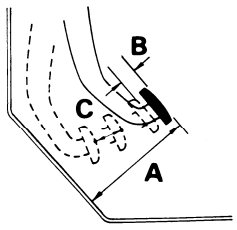
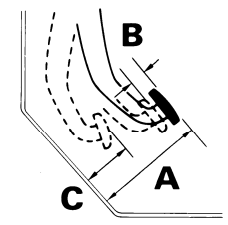
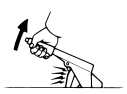
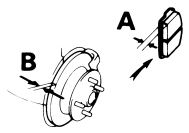
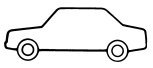
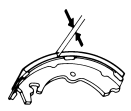
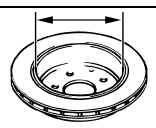
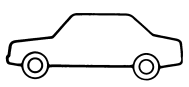
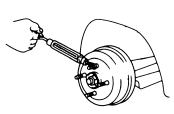
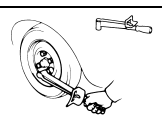
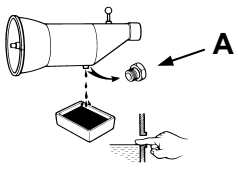
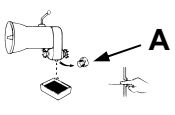
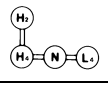
rpm		**500 to 600**	**600 to 700**
		4700 to 4900	**4500 to 4700**
kPa *(kgf/cm², psi)*		**2700** *(27.5, 392)*	**3628** *(37.0, 526)*
		⬆ **2200** *(22.4, 319)*	⬆ **2648** *(27.0, 384)*
		⬇ **500** *(5.1, 73)*	⬇ **490** *(5.0, 71)*
N*m *(kgf*cm, ft.*lbf)*	**A**	1: **80** *(816, 59)* 2: **90°** 3: **90°** 4: **90°**	1: **68.6** *(700, 51)* 2: **90°** 3: **90°**
	B	**21** *(214, 15)*	**19.6** *(200, 14)*
	C	**36** *(367, 27)*	**41.7** *(425, 31)*
	D	———	**63.7** *(650, 47)*
	E	**25** *(255, 18)*	**46.6** *(475, 34)*
kPa *(kgf/cm², psi)*		⬆ **50** *(0.5, 7.3)*	⬆ **29** *(0.3, 4.3)*
		2500 rpm ⬆ **230** *(2.3, 33.3)*	3000 rpm ⬆ **250** *(2.5, 36)*
		1VD-FTV	**1HZ**
liter *(US qts, Imp. qts)*		**8.5** *(9.0, 7.5)*	**10.0** *(10.6, 8.8)*
		9.4 *(9.9, 8.3)*	**11.3** *(11.9, 9.9)*
		API CF-4, CF or ACEA B1 (You may also use API CE or CD)	**G-DLD-1 API CF-4 or CF (You may also use API CE or CD)**
N*m *(kgf*cm, ft.*lbf)*	**A**	**38** *(387, 28)*	**25** *(250, 18)*
liter *(US qts, Imp. qts)*		**14.8** *(15.6, 13.0)*	w/ Front Heater **13.8** *(14.6, 12.1)* w/ Front and Rear Heater **14.9** *(15.7, 13.1)* w/o Front and Rear Heater **12.7** *(13.4, 11.2)*

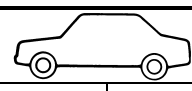
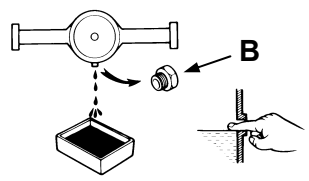
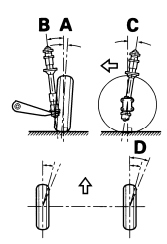
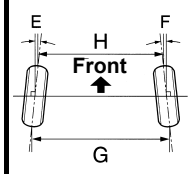
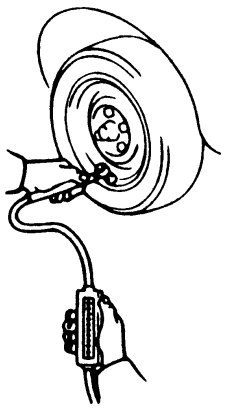
*1: Automatic Cold Start Device

SDS TOYOTA LAND CRUISER Diesel

HZJ71, 76, 78, 79
VDJ76, 78, 79

2007/12 - 2012/08

 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	⬆ **20.0** *(0.787)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
		HZJ, VDJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	⬆ **68** *(2.68)*	
		**SAE J1703 or FMVSS No. 116 DOT3**	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	⬆ **1.0** *(0.039)*	
	B	⬆ **30** *(1.181)*	⬆ **16** *(0.63)*
 mm *(in.)*		———	⬆ **1.0** *(0.039)*
			⬆ **1.5** *(0.059)*
 mm *(in.)*		———	⬇ **211** *(8.307)*
			⬇ **297** *(11.693)*
			
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** (*266 to 530, 19.2 to 38.4)*	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		1VD-FTV	**1HZ**
 **liter** *(US qts, Imp. qts)*		**2.7** *(2.9, 2.4)*	**2.2** *(2.3, 1.9)*
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	**2.1** *(2.2, 1.8)*
		API GL-4 or GL-5 SAE 75W-90	**API GL-4 or GL-5 SAE 90**

			
 **liter** *(US qts, Imp. qts)*		**2.8 to 2.9** *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
		w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent **w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(380, 27)*	
	B	**49** *(500, 36)*	
		HZJ, VDJ	
mm *(in.)*		⬇ **40** *(1.6)*	
		HZJ, VDJ	
	A	**1° 00' +/-45'** *(1.00° +/-0.75°)*	
	B	**13° 00' +/-45'** *(13.00° +/-0.75°)*	
	C	**4° 20' +/-60'** *(4.33° +/-1.00°)*	
	D	**29° 00' to 32° 00'** *(29.00° to 32.00°)*	
	E + F	**0° 00' +/-12'** *(0.00° +/-0.2°)*	
		0° 12' +/-12' *(0.20° +/-0.2°)*	
mm *(in.)*	G - H	**0 +/-2** *(0.00 +/-0.0787)*	
		2 +/-2 *(0.0787 +/-0.0787)*	
		Unladen vehicle	Fully laden vehicle
 **kPa** *(kgf/cm² or bar, psi)*		Refer to Repair Manual Pub. No. RM0580E (Service Specifications)	

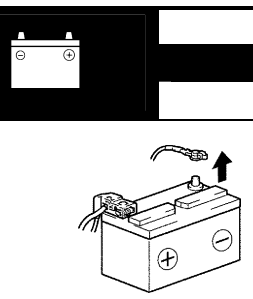
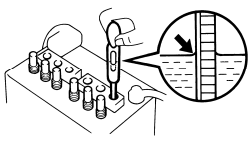
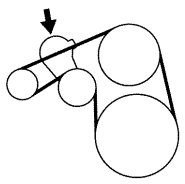
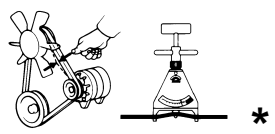
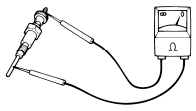
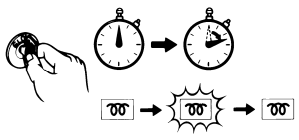
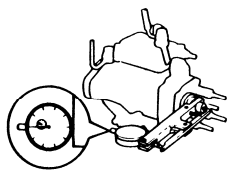
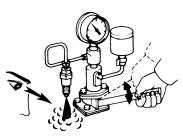
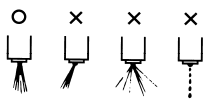
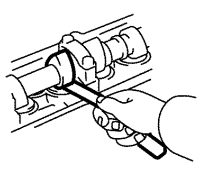
*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.

LAND CRUISER

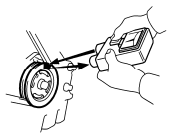
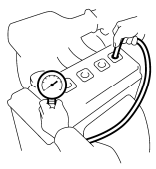
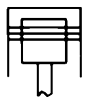
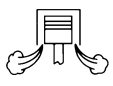
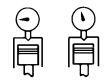
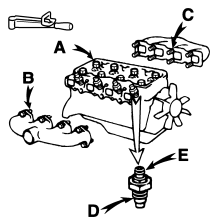
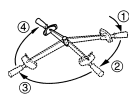
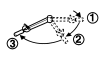
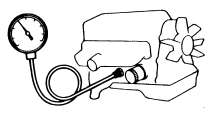
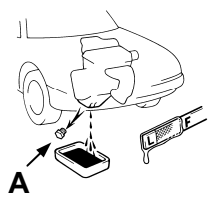
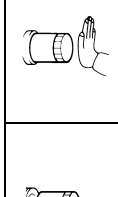
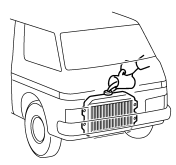
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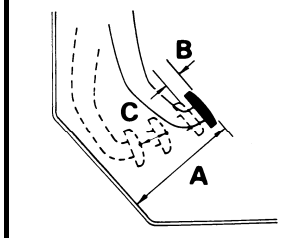
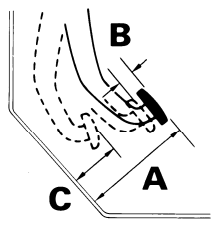
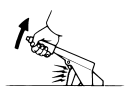
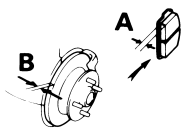
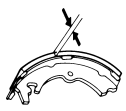
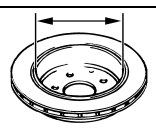
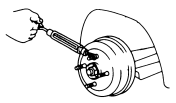
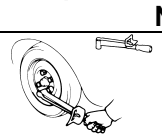
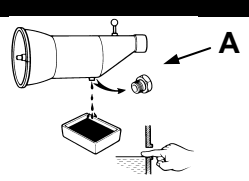
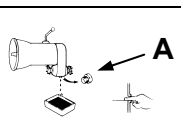
HZJ71, 76, 78, 79
VDJ76, 78, 79

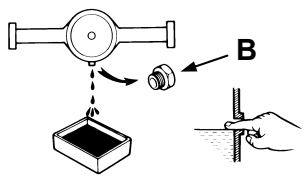
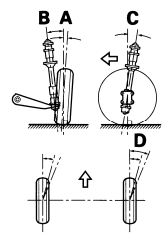
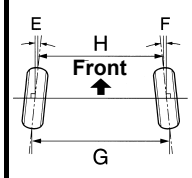
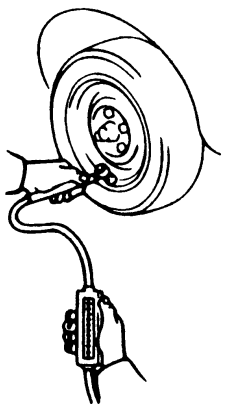
2007/12 - 2012/08

		VDJ	HZJ
		———	
 **20°C** *(68°F)*		**1.25 to 1.29**	
		1VD-FTV	**1HZ**
	cm³ *(cu. in.)*	**4461** *(272.2)*	**4164** *(254.0)*
		———	———
 * **mm** *(in.)* **N** *(kgf)*		———	**8.0 to 11.0** *(0.31 to 0.43)* ***200 to 390** *(20 to 40)*
		———	**16.0 to 22.0** *(0.63 to 0.87)* ***196 to 392** *(20 to 40)*
20°C *(68°F)*  **Ω**		**1.0**	**0.75** *(12 V)* **3.1** *(24 V)*
28°C *(82°F)*  **sec.**		**1.0**	**Malaysia, Bangladesh 1.0 Other 2.4**
 **mm** (in.)		———	w/ ACSD*1 **0.65 to 0.71** *(0.0256 to 0.0280)* w/o ACSD*1 **0.85 to 0.91** *(0.0335 to 0.0358)*
		———	
 **kPa** *(kgf/cm², psi)*		———	**14220 to 15200** *(145 to 155, 2062 to 2205)*
		———	**14710 to 15690** *(150 to 160, 2133 to 2276)*
 **mm** *(in.)*		———	**0.15 to 0.25** *(0.006 to 0.010)*
		———	**0.35 to 0.45** *(0.014 to 0.018)*

*1: Automatic Cold Start Device

 **rpm**		**500 to 600**	**600 to 700**
		**4700 to 4900**	**4500 to 4700**
 **kPa** *(kgf/cm², psi)*		**2700** *(27.5, 392)*	**3628** *(37.0, 526)*
		⬆ **2200** *(22.4, 319)*	⬆ **2648** *(27.0, 384)*
		⬇ **500** *(5.1, 73)*	⬇ **490** *(5.0, 71)*
 **N*m** *(kgf*cm, ft.*lbf)*	**A**	 1: **80** *(816, 59)* 2: **90°** 3: **90°** 4: **90°**	 1: **68.6** *(700, 51)* 2: **90°** 3: **90°**
	B	**21** *(214, 15)*	**19.6** *(200, 14)*
	C	**36** *(367, 27)*	**41.7** *(425, 31)*
	D	———	**63.7** *(650, 47)*
	E	**25** *(255, 18)*	**46.6** *(475, 34)*
 **kPa** *(kgf/cm², psi)*		⬆ **50** *(0.5, 7.3)*	⬆ **29** *(0.3, 4.3)*
		2500 rpm  ⬆ **230** *(2.3, 33.3)*	3000 rpm  ⬆ **250** *(2.5, 36)*
		1VD-FTV	**1HZ**
 **liter** *(US qts, Imp. qts)*		**8.5** *(9.0, 7.5)*	**10.0** *(10.6, 8.8)*
		**9.4** *(9.9, 8.3)*	**11.3** *(11.9, 9.9)*
		API CF-4, CF or ACEA B1 (You may also use API CE or CD)	**G-DLD-1 API CF-4 or CF (You may also use API CE or CD)**
N*m *(kgf*cm, ft.*lbf)*	**A**	**38** *(387, 28)*	**25** *(250, 18)*
 **liter** *(US qts, Imp. qts)*		**14.8** *(15.6, 13.0)*	w/ Front Heater **10.6** *(11.2, 9.3)* w/ Front and Rear Heater **11.7** *(12.4, 10.3)* w/o Front and Rear Heater **9.8** *(10.4, 8.6)*

 mm *(in.)*	A	**179.2 to 189.2** *(7.06 to 7.45)*	**185 to 195** *(7.28 to 7.68)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**20.0** *(0.787)*	
		SAE J1703 or FMVSS No. 116 DOT3	
		HZJ, VDJ	
 mm *(in.)*	A	**164.7 to 174.7** *(6.49 to 6.87)*	**175.9 to 185.9** *(6.93 to 7.31)*
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*1	**116** *(4.56)*2* **125***(4.92)*3*	**127** *(4.99)*2* **136** *(5.35)*3*
		SAE J1703 or FMVSS No. 116 DOT3	
 **196 N** *(20 kgf, 44 lbf)*		**7 to 9**	
 mm *(in.)*			
	A	**1.0** *(0.039)*	
	B	**30** *(1.181)*	**16** *(0.63)*
 mm *(in.)*		———	**1.0** *(0.039)*
			1.5 *(0.059)*
 mm *(in.)*		———	**211** *(8.307)*
			297 *(11.693)*
 **N*m** *(kgf*cm, ft.*lbf)*		**26 to 52** *(266 to 530, 19.2 to 38.4)*	**24 to 53** *(245 to 540, 17.7 to 39.1)*
 **N*m** *(kgf*cm, ft.*lbf)*		Steel wheel **209** *(2131, 154)* Aluminum wheel **131** *(1336, 97)*	
		1VD-FTV	**1HZ**
 **liter** *(US qts, Imp. qts)*		**2.7** *(2.9, 2.4)*	**2.2** *(2.3, 1.9)*
		API GL-4 or GL-5 SAE 75W-90	
 **liter** *(US qts, Imp. qts)*		**1.5** *(1.6, 1.3)*	**2.1** *(2.2, 1.8)*
		API GL-4 or GL-5 SAE 75W-90	**API GL-4 or GL-5 SAE 90**

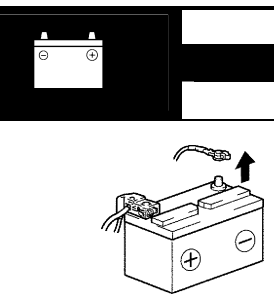
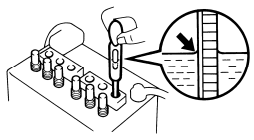
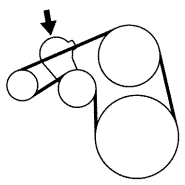
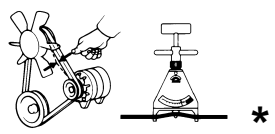
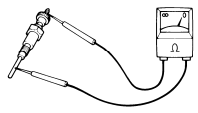
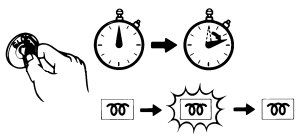
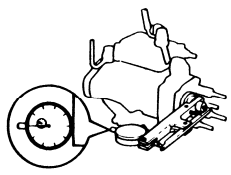
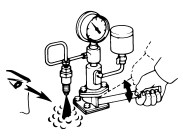
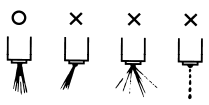
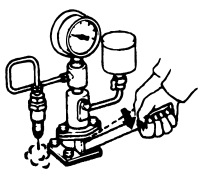
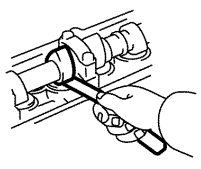
 **liter** *(US qts, Imp. qts)*	**2.8 to 2.9** *(2.9 to 3.0, 2.4 to 2.5)*	**w/ Differential lock: *2.2 to 2.3*** *(2.3 to 2.4, 1.9 to 2.0)* **w/o Differential lock: 2.3 to 2.4** *(2.4 to 2.5, 2.0 to 2.1)*
	w/o LSD: Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent **w/ LSD: Toyota Genuine Differential Gear Oil LX 75W-85 GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	**A**	**37** *(380, 27)*
	B	**49** *(500, 36)*
		HZJ, VDJ
 **mm** *(in.)*		**40** *(1.6)*
		HZJ, VDJ
	**A**	**1° 00' +/-45'** *(1.00° +/-0.75°)*
	B	**13° 00' +/-45'** *(13.00° +/-0.75°)*
	C	**4° 20' +/-60'** *(4.33° +/-1.00°)*4* **3° 35' +/-60'** *(3.58° +/-1.00°)*5*
	D	**29° 00' to 32° 00'** *(29.00° to 32.00°)*
	**E + F**	**0° 00' +/-12'** *(0.00° +/-0.2°)*
mm *(in.)*	**G - H**	**0 +/-2** *(0.00 +/-0.0787)*
	Unladen vehicle	Fully laden vehicle
 **kPa** *(kgf/cm^2 or bar, psi)*	**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

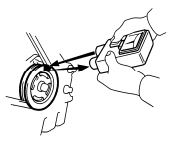
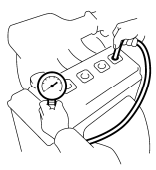
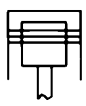
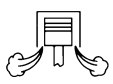
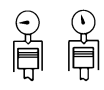
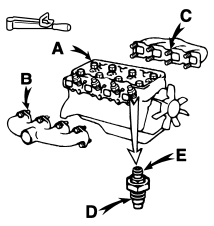
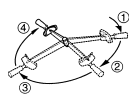
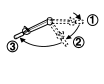
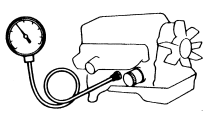
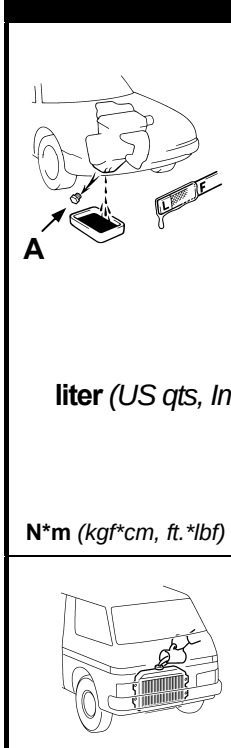
*1: When brake pedal is depressed with force of 490 N (50 kgf, 110 lbf) while engine is running.
*2: w/o ABS: *3: w/ABS: *4: except Super Long *5: for Super Long

LAND CRUISER **Diesel**

HZJ71, 76, 78, 79
VDJ76, 78, 79

2012/08 -

		VDJ	HZJ
		———	
 **20°C** *(68°F)*		**1.25 to 1.29**	
		1VD-FTV	**1HZ**
	cm³ *(cu. in.)*	**4461** *(272.2)*	**4164** *(254.0)*
		———	———
 ***** **mm** *(in.)* **N** *(kgf)*		———	**8.0 to 11.0** *(0.31 to 0.43)* ***200 to 390** *(20 to 40)*
		———	**16.0 to 22.0** *(0.63 to 0.87)* ***196 to 392** *(20 to 40)*
20°C *(68°F)*  **Ω**		**1.0**	**0.75** *(12 V)* **3.1** *(24 V)*
28°C *(82°F)*  **sec.**		**1.0**	**Malaysia, Bangladesh 1.0 Other 2.4**
 **mm** (in.)		———	w/ ACSD*1 **0.65 to 0.71** *(0.0256 to 0.0280)* w/o ACSD*1 **0.85 to 0.91** *(0.0335 to 0.0358)*
		———	
 **kPa** *(kgf/cm², psi)*		———	**14220 to 15200** *(145 to 155, 2062 to 2205)*
		———	**14710 to 15690** *(150 to 160, 2133 to 2276)*
 **mm** *(in.)*		———	**0.15 to 0.25** *(0.006 to 0.010)*
		———	**0.35 to 0.45** *(0.014 to 0.018)*

 **rpm**		**500 to 600**	**600 to 700**
		**4700 to 4900**	**4500 to 4700**
 		⬆ **2700** *(27.5, 392)*	⬆ **3628** *(37.0, 526)*
		**2200** *(22.4, 319)*	**2648** *(27.0, 384)*
kPa *(kgf/cm², psi)*		⬇ **500** *(5.1, 73)*	⬇ **490** *(5.0, 71)*
 **N*m** *(kgf*cm, ft.*lbf)*	**A**	 1: **80** *(816, 59)* 2: **90°** 3: **90°** 4: **90°**	 1: **68.6** *(700, 51)* 2: **90°** 3: **90°**
	B	**21** *(214, 15)*	**19.6** *(200, 14)*
	C	**36** *(367, 27)*	**41.7** *(425, 31)*
	D	———	**63.7** *(650, 47)*
	E	**25** *(255, 18)*	**46.6** *(475, 34)*
 **kPa** *(kgf/cm², psi)*		⬆ **50** *(0.5, 7.3)*	⬆ **29** *(0.3, 4.3)*
		**2500** rpm  ⬆ **230** *(2.3, 33)*	**3000** rpm  ⬆ **250** *(2.5, 36)*
		1VD-FTV	**1HZ**
 **liter** *(US qts, Imp. qts)*		**8.5** *(9.0, 7.5)*	**10.0** *(10.6, 8.8)*
		**9.4** *(9.9, 8.3)*	**11.3** *(11.9, 9.9)*
		G-DLD1, API CF-4, CF or ACEA B1 (You may also use API CE or CD)	**G-DLD-1 API CF-4 or CF (You may also use API CE or CD)**
N*m *(kgf*cm, ft.*lbf)*	**A**	**38** *(387, 28)*	**25** *(250, 18)*
liter *(US qts, Imp. qts)*		**14.8** *(15.6, 13.0)*	w/ Front Heater **10.6** *(11.2, 9.3)* w/ Front and Rear Heater **11.7** *(12.4, 10.3)* w/o Front and Rear Heater **9.8** *(10.4, 8.6)*

*1: Automatic Cold Start Device