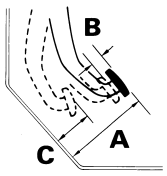
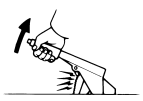
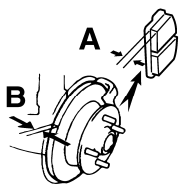
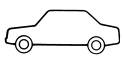
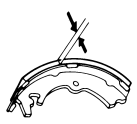
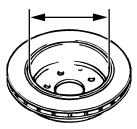
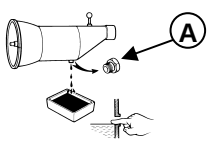
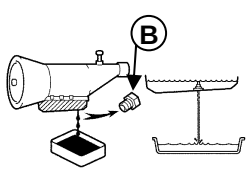
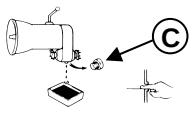
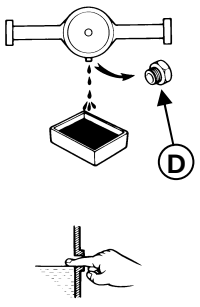
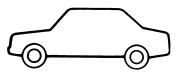
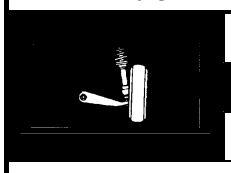
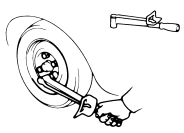
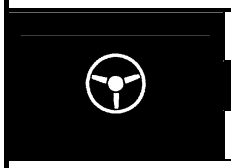
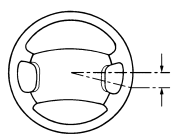
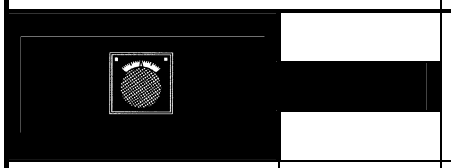
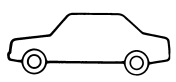
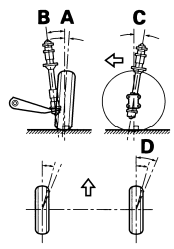
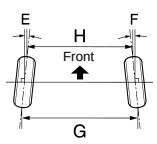
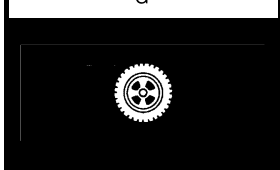
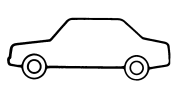
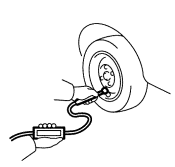
	**A**	**172.9 to 182.9** *(6.81 to 7.20)*	**171.4 to 181.4** *(6.75 to 7.14)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	

				
	**A**	***1**	**160.2 to 170.2** *(6.31 to 6.71)*	**160.4 to 170.4** *(6.31 to 6.71)*
		***2**	**157.2 to 167.2** *(6.19 to 6.58)*	**160.2 to 170.2** *(6.31 to 6.71)*
	B		**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*3	***1**	MT: ⬆ **94** *(3.70)* AT: ⬆ **101** *(3.98)*	⬆ **101** *(3.98)*
		***2**	MT: ⬆ **102** *(4.02)* AT: ⬆ **105** *(4.13)*	⬆ **108** *(4.25)*
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**		
 **200 N** *(20 kgf, 45 lbf)*		**5 to 7 Clicks**		
				
	A	⬆ **1.0** *(0.0394)*		
mm *(in.)*	**B**	⬆ **29.0** *(1.14)*	⬆ **16.0** *(0.630)*	
 **mm** *(in.)*		⬆ **1.0** *(0.0394)*		
 **mm** *(in.)*		⬇ **211** *(8.31)*		

		**TRJ**	**GRJ**
		**2.2** *(2.3, 1.9)*	**2.1** *(2.2, 1.8)*
Liter *(US qts, Imp. qts)*		**API GL-4 SAE 75W-90**	**Toyota Genuine Transfer Gear oil LF or equivalent SAE 75W**
N*m *(kgf*cm, ft.*lbf)*	**A**	**37** *(377, 27)*	
		**Please refer to Repair Manual (A343F Automatic Transmission / Transaxle / Automatic Transmission Fluid)**	**Please refer to Repair Manual (A750F Automatic Transmission / Transaxle / Automatic Transmission Fluid)**
Liter *(US qts, Imp. qts)*		**Toyota Genuine ATF WS**	
N*m *(kgf*cm, ft.*lbf)*	**B**	**20** *(204, 15)*	

		**1.4** *(1.5, 1.2)*	
Liter *(US qts, Imp. qts)*		**Toyota Genuine Transfer Gear Oil LF 75W or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	**C**	**37** *(377, 27)*	
			
Liter *(US qts, Imp. qts)*		**1.35 to 1.45** *(1.43 to 1.53, 1.18 to 1.27)*	***4, *6** **2.65 to 2.75** *(2.80 to 2.91, 2.33 to 2.42)*
			***4, *7** **2.15 to 2.25** *(2.27 to 2.38, 1.89 to 1.98)*
			***5, *6** **2.60 to 2.70** *(2.75 to 2.85, 2.29 to 2.38)*
			***5, *7** **2.15 to 2.25** *(2.27 to 2.38, 1.89 to 1.98)*
		Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent	
N*m *(kgf*cm, ft.*lbf)*	**D**	**65** *(660, 48)*	**49** *(500, 36)*
		**TRJ, GRJ**	
 **N*m** *(kgf*cm, ft.*lbf)*		**For steel wheel: 112** *(1137, 82)* **For aluminum wheel: 103** *(1050, 76)*	
		**TRJ, GRJ**	
 **mm** *(in.)*		⬇ **30** *(1.18)*	
			
	**A**	**Please refer to the Repair Manual (Specifications, Alignment / Handling Diagnosis)**	**-**
	B		
	C		
	D		
	**E+F**		
	G-H **mm** *(in.)*		
			
 **kPa** *(kgf/cm², psi)*	**Europe**	**220** *(2.2, 32)*	
	Except Europe	**200** *(2.0, 29)*	

*1: for Hydraulic Brake Booster *2: for Vacuum Brake Booster
*3: When the brake pedal is depressed with the force of 490 N (50 kgf, 110.2 lbf) while the engine is running.
*4: w/o Differential Lock *5: w/ Differential Lock *6: 5 Door *7: 3 Door

LAND CRUISER, LAND CRUISER PRADO

TRJ150, 155
GRJ150

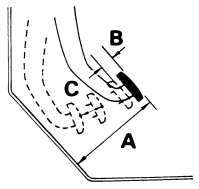
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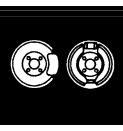
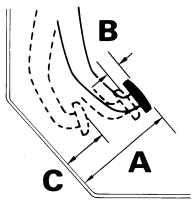
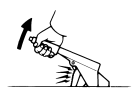
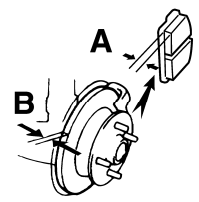
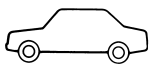
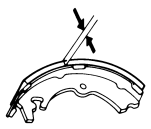
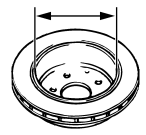
		2TR-FE	1GR-FE
*1		Parking Assist Monitor System	
		Vehicle Stability Control System	
20°C *(68°F)*		1.25 to 1.29	1.26 to 1.28
cc *(cu. in.)*		2TR-FE 2694 *(164.4)*	1GR-FE 3956 *(241.4)*
			-
A	DENSO	SK20HR11	SK16HR11
	NGK	-	
	A mm *(in.)*	1.0 to 1.1 *(0.0394 to 0.0433)*	
BTDC		3 to 7° [DLC3 terminals 13 (TC) - 4 (CG) connected]	8 to 12° [DLC3 terminals 13 (TC) - 4 (CG) connected]
[DLC3 Terminal 9 (TAC) Connected] rpm		600 to 700	690 to 790

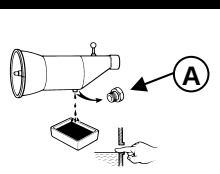
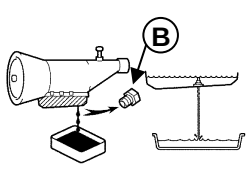
kPa *(kgf/cm², psi)*			1230 *(12.5, 178)*	1400 *(14.3, 203)*
			⬆ 880 *(9.0, 128)*	⬆ 1100 *(11.2, 160)*
			⬇ 98 *(1.0, 14.2)*	⬇ 100 *(1.0, 15)*
kPa *(kgf/cm², psi)*			⬆ 29 *(0.3, 4.2)*	
	3000 rpm		160 to 490 *(1.6 to 5.0, 23 to 71)*	294 to 588 *(3.0 to 6.0, 43 to 85)*
			2TR-FE	1GR-FE
			5.0 *(5.3, 4.4)*	5.7 *(6.0, 5.0)*
			5.7 *(6.0, 5.0)*	w/o Oil Cooler: 6.1 *(6.4, 5.4)* w/ Oil Cooler: 6.2 *(6.6, 5.5)*
Liter *(US qts, Imp. qts)*		0W-20 5W-20 5W-30 10W-30	API grade SL "energy-conserving", SM "energy-conserving", SN "resource-conserving" or ILSAC*2 multigrade engine oil	
		15W-40 20W-50	API grade SL, SM or SN multigrade engine oil	
N*m *(kgf*cm, ft.*lbf)*	A		38 *(382, 28)*	40 *(408, 30)*
Liter *(US qts, Imp. qts)*	P R N D 2 L		w/o Rear Heater: 8.1 *(8.6, 7.1)* w/ Rear Heater: 9.9 *(10.5, 8.7)*	*3 w/o Rear Heater: 10.5 *(11.1, 9.2)* w/ Rear Heater: 12.3 *(13.0, 10.8)* *4 w/o Rear Heater: 11.0 *(11.6, 9.7)* w/ Rear Heater: 12.8 *(13.5, 11.3)*
	1 3 5 2 4 R		w/o Rear Heater: 8.3 *(8.8, 7.3)* w/ Rear Heater: 10.1 *(10.7, 8.9)*	w/o Rear Heater: 10.7 *(11.3, 9.4)* w/ Rear Heater: 12.5 *(13.2, 11.0)*

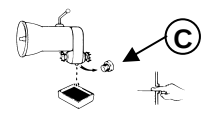
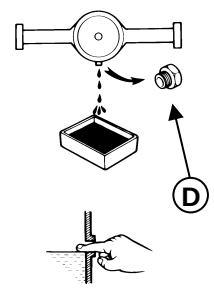
*1: Initialization required. Refer to the repair manual for the initialization procedures.
*2 ILSAC: International Lubricant Standardization and Approval Committee
*3: w/o Warmer: *4: w/ Warmer:

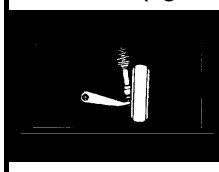
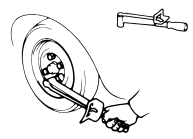
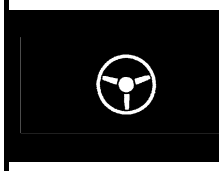
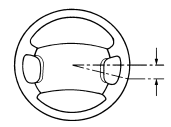
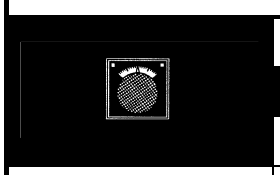
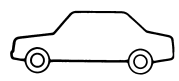
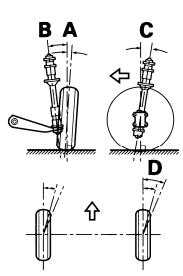
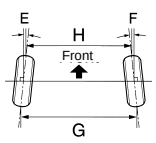
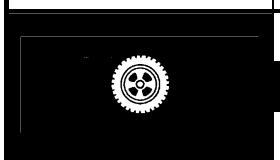
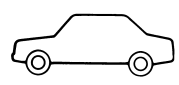
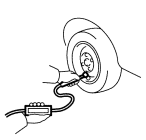
TOYOTA MOTOR CORPORATION Technical Service Division

			
	A	**172.9 to 182.9** *(6.81 to 7.20)*	**171.4 to 181.4** *(6.75 to 7.14)*
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	

				
	A	*1	**160.2 to 170.2** *(6.31 to 6.71)*	**160.4 to 170.4** *(6.31 to 6.71)*
		*2	**157.2 to 167.2** *(6.19 to 6.58)*	**160.2 to 170.2** *(6.31 to 6.71)*
	B		**1.0 to 6.0** *(0.0394 to 0.236)*	
	C*3	*1	MT: ⬆ **94** *(3.70)* AT: ⬆ **101** *(3.98)*	⬆ **101** *(3.98)*
		*2	⬆ **102** *(4.02)*	⬆ **108** *(4.25)*
mm *(in.)*			**SAE J1703 or FMVSS No. 116 DOT 3**	
 **200 N** *(20 kgf, 45 lbf)*			**5 to 7 Clicks**	
				
	A		⬆ **1.0** *(0.0394)*	
mm *(in.)*	B		⬆ **29.0** *(1.14)*	⬆ **16.0** *(0.630)*
			⬇ **1.0** *(0.0394)*	
 **mm** *(in.)*			⬇ **211** *(8.31)*	

		KDJ	**LJ**
	1 3 5 / 2 4 R	**2.1** *(2.2, 1.8)*	**2.2** *(2.3, 1.9)*
		Toyota Genuine Transfer Gear oil LF or equivalent SAE 75W	**API GL-4 SAE 75W-90**
Liter *(US qts, Imp. qts)*			
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*	
		**Please refer to Repair Manual (A750F Automatic Transmission / Transaxle / Automatic Transmission Fluid)**	-
		Toyota Genuine ATF WS	
Liter *(US qts, Imp. qts)*			
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*	

			**1.4** *(1.5, 1.2)*
Liter *(US qts, Imp. qts)*			**Toyota Genuine Transfer Gear Oil LF 75W or equivalent**
N*m *(kgf*cm, ft.*lbf)*	C		**37** *(377, 27)*
			
		*4, *6	**2.65 to 2.75** *(2.80 to 2.91, 2.33 to 2.42)*
		*4, *7	**2.15 to 2.25** *(2.27 to 2.38, 1.89 to 1.98)*
		*5, *6	**2.60 to 2.70** *(2.75 to 2.85, 2.29 to 2.38)*
		*5, *7	**2.15 to 2.25** *(2.27 to 2.38, 1.89 to 1.98)*
Liter *(US qts, Imp. qts)*		**1.35 to 1.45** *(1.43 to 1.53, 1.18 to 1.27)*	
			Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent
N*m *(kgf*cm, ft.*lbf)*	D	**65** *(660, 48)*	**49** *(500, 36)*

		**KDJ, LJ**
 **N*m** *(kgf*cm, ft.*lbf)*		**For steel wheel: 112** *(1137, 82)* **For aluminum wheel: 103** *(1050, 76)*
		**KDJ, LJ**
 **mm** *(in.)*		⬇ **30** *(1.18)*
		
	**A**	**Please refer to Repair Manual (Specifications, Alignment / Handling Diagnosis)** -
	B	
	C	
	D	
	**E+F**	
	G-H **mm** *(in.)*	
		
 **kPa** *(kgf/cm²*, *psi)*	**Europe**	**220** *(2.2, 32)*
	Except Europe	**200** *(2.0, 29)*

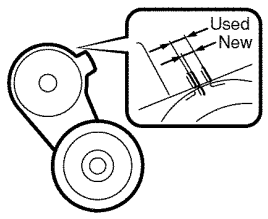
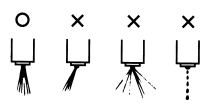
*1: for Hydraulic Brake Booster *2: for Vacuum Brake Booster
*3: When the brake pedal is depressed with the force of 490 N (50 kgf, 110.2 lbf) while the engine is running.
*4: w/o Differential Lock *5: w/ Differential Lock *6: 5 Door *7: 3 Door

LAND CRUISER, LAND CRUISER PRADO

Diesel

KDJ150, 155
LJ150

2013/08 -

	KDJ, LJ		
*1	**Parking Assist Monitor System**		
	Vehicle Stability Control System		
20°C *(68°F)*	**1.25 to 1.29**		
	1KD-FTV	**5L-E**	
cc *(cu. in.)*	**2982** *(182.0)*	**2986** *(182.2)*	
		-	
	-	*5 **7.0 to 10** *(0.276 to 0.393)* ***441 to 539** *(45 to 55, 99.1 to 121.2)*	
		*6 **10 to 14** *(0.393 to 0.551)* ***196 to 343** *(20 to 35, 44.1 to 77.1)*	
mm *(in.)* **N** *(kgf, lbf)*	-	*5 **11 to 15** *(0.433 to 0.590)* ***372 to 608** *(38 to 62, 83.6 to 136.7)*	
		*6 **15 to 20** *(0.590 to 0.787)* ***196 to 392** *(20 to 40, 44.1 to 88.1)*	
	-	*5 **8 to 10** *(0.314 to 0.393)* ***441 to 539** *(45 to 55, 99.1 to 121.2)*	
		*6 **10 to 15** *(0.393 to 0.590)* ***196 to 343** *(20 to 35, 44.1 to 77.1)*	
20°C *(68°F)* **ohm**	**Approximately 0.95*2 1.2*3**	**Approximately 1.0**	
sec.	**w/o DPF:** **-22°C** *(-7.6°F)*: **8** **0°C** *(32°F)*: **3** **5°C** *(41°F)*: **2** **30°C** *(86°F)*: **0.5**	**-13°C** *(9°F)*: **6** **8°C** *(46°F)*: **4.5** **28°C** *(82°F)*: **2.3** **55°C** *(131°F)*: **1.2** **83°C** *(181°F)*: **0.9**	
	w/ DPF: **-25°C** *(-13°F)*: **7** **-15°C** *(5°F)*: **6** **0°C** *(32°F)*: **3** **20°C** *(68°F)*: **0.45**		
	-		
kPa *(kgf/cm², psi)*	-	**15790 to 16570** *(161.0 to 169.0, 2290 to 2403)*	

mm *(in.)*		**0.20 to 0.30** *(0.00787 to 0.0118)*	
		0.35 to 0.45 *(0.0138 to 0.0177)*	**0.40 to 0.50** *(0.0158 to 0.0197)*
[DLC3 Terminal 9 (TAC) Connected] **rpm**		**AT: 650 to 750** **MT: 610 to 710*2** **MT: 650 to 750*3**	**720 to 820**
		4450 to 4750*2 **4500 to 4700*3**	**4850 to 4950**
kPa *(kgf/cm², psi)*		**2700** *(27.5, 391)*	**3138** *(32.0, 455)*
		⬆ **2200** *(22.5, 320)*	⬆ **1961** *(20.0, 284)*
		⬇ **500** *(5.0, 71)*	⬇ **490** *(5.0, 71)*
		⬆ **29** *(0.3, 4.2)* ⬆ **50** *(0.5, 7.3)*3*	
	3000 rpm	⬆ **245** *(2.5, 36)*2* ⬆ **250** *(2.5, 36)*3*	**294 to 539** *(3.0 to 5.5, 43 to 78)*
	2500 rpm	⬆ **200** *(2.0, 29)*3*	-
		1KD-FTV	**5L-E**
		6.7 *(7.1, 5.9)*	**6.0** *(6.3, 5.3)*
		7.0 *(7.4, 6.2)*	**6.9** *(7.3, 6.1)*
Liter *(US qts, Imp. qts)*	**w/o DPF: 5W-30 10W-30 15W-40 20W-50**	**G-DLD1, API CF-4, CF, or ACEA B1 (You may also use API CE or CD)**	**10W-30** **API CF-4 or CF**
	w/ DPF: 0W-30*4 5W-30	**ACEA C2 (Using engine oil other than ACEA C2 may damage catalytic converter)**	
N*m *(kgf*cm, ft.*lbf)*	Ⓐ	**34** *(347, 25)*	**35** *(352, 25)*
Liter *(US qts, Imp. qts)*	PENDL	**w/o Rear Heater:** **13.1** *(13.8, 11.5)* **w/ Rear Heater:** **14.9** *(15.7, 13.1)*	-
	1 3 5 2 4 R	**w/o Rear Heater:** **13.2** *(13.9, 11.6)* **w/ Rear Heater:** **15.0** *(15.8, 13.2)*	**8.6** *(9.0, 7.6)*

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: w/o DPF *3: w/ DPF
*4: 0W-30 is best choice for fuel economy and good starting in cold weather. *5: New *6: Used