

	A	172.9 to 182.9 (6.81 to 7.20)	171.1 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	
		5 to 7 Clicks	
200 N (20 kgf, 45 lbf)			
	A	↑ 1.0 (0.0394)	
	B	↑ 29.0 (1.14)	↑ 16.0 (0.630)
mm (in.)			
		↑ 1.0 (0.0394)	
mm (in.)		↓ 211 (8.31)	
		TRJ	GRJ
		1 3 5 2 4 R	2.1 (2.2, 1.8)
		2.2 (2.3, 1.9)	
Liter (US qts, Imp. qts)		API GL-4 or GL-5 SAE 75W-90	SAE 75W
N*m (kgf*cm, ft.*lbf)	A	37 (377, 27)	
		Refer to Repair Manual Pub. No. RM1450E (A343F Automatic Transmission / Transaxle / Automatic Transmission Fluid)	Refer to Repair Manual Pub. No. RM1450E (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)	


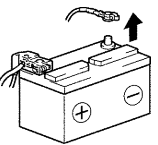
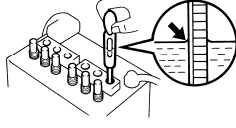
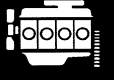
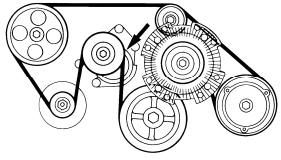
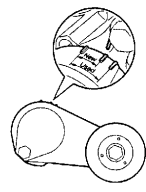
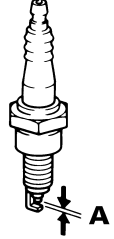
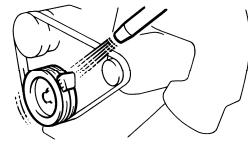
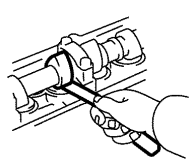
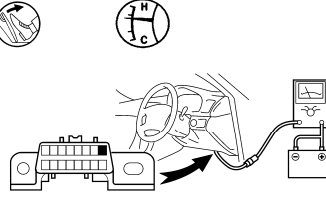
		1.4 (1.5, 1.2)	
Liter (US qts, Imp. qts)		Toyota Genuine Transfer Gear Oil LF 75W or equivalent	
N*m (kgf*cm, ft.*lbf)	C	37 (377, 27)	
		*4, *6	2.65 to 2.75 (2.80 to 2.91, 2.33 to 2.42)
		*4, *7	2.15 to 2.25 (2.27 to 2.38, 1.89 to 1.98)
		*5, *6	2.60 to 2.70 (2.75 to 2.85, 2.29 to 2.38)
		*5, *7	2.15 to 2.25 (2.27 to 2.38, 1.89 to 1.98)
Liter (US qts, Imp. qts)		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	
		112 (1142, 83)	
N*m (kgf*cm, ft.*lbf)			
		TRJ, GRJ	
		↓ 30 (1.18)	
mm (in.)			
	A	Refer to Repair Manual Pub. No. RM1450E (Specifications, Alignment / Handling Diagnosis)	
	B		
	C		
	D		
	E+F		
	G-H	mm (in.)	
	Europe	220 (2.2, 32)	
	Except Europe	200 (2.0, 29)	
kPa (kgf/cm ² , psi)			

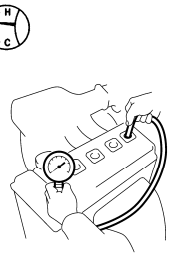



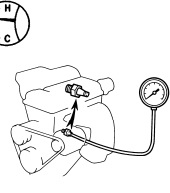




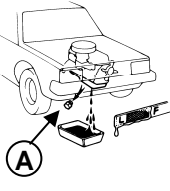



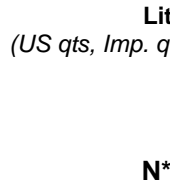


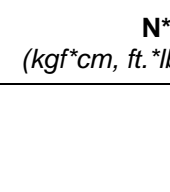
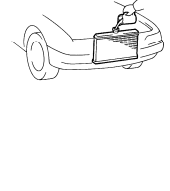



*1: for Hydraulic Brake Booster *2: for Vacuum Brake Booster
 *3: When the brake pedal is depressed with the force of 490 N (50 kgf, 110.2 lbf) while the engine is running.
 *4: w/o Differential Lock *5: w/ Differential Lock *6: 5 Door *7: 3 Door

LAND CRUISER, LAND CRUISER PRADO

TRJ150, 155
GRJ150

2009/08 -

		TRJ, GRJ	
 *1		Parking Assist Monitor System	
 20°C (68°F)		1.25 to 1.29	
		2TR-FE	1GR-FE
cc (cu. in.)		2694 (164.4)	3956 (241.4)
			
	DENSO	SK20HR11	
	NGK	ILFR6C11	-
	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]
 mm (in.)		-	
 [DLC3 Terminal 9 (TAC) Connected]		600 to 700	690 to 790
rpm			

		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)
		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)
		15W-40 20W-50	API grade SL or SM multigrade engine oil
		5W-30 10W-30	API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC 2 multigrade engine oil
		0W-20 5W-20 5W-30 10W-30	API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC 2 multigrade engine oil
		38 (382, 28)	40 (408, 30)
		w/o Rear Heater: 8.1 (8.6, 7.1) w/ Rear Heater: 9.9 (10.5, 8.7)	w/o Rear Heater: 10.5 (11.1, 9.2) w/ Rear Heater: 12.3 (13.0, 10.8) w/ Warmer: 12.8 (13.5, 11.2)
		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 Standardization and Approval Committee

A		175.9 to 176.9 (6.93 to 6.96)	172.9 to 182.9 (6.81 to 7.20)	
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		
		5 to 7		
200 N (20 kgf, 45 lbf)				
	A	⬆ 1.0 (0.0394)		
	B	⬆ 29.0 (1.14)	⬆ 16.0 (0.630)	
mm (in.)		⬆ 1.0 (0.0394)		
	mm (in.)	⬆ 211 (8.31)		
		KDJ	LJ	
		2.1 (2.2, 1.8)	2.2 (2.3, 1.9)	
		SAE 75W	API GL-4 or GL-5 SAE 75W-90	
Liter (US qts, Imp. qts)	A	37 (377, 27)		
N*m (kgf*cm, ft.*lbf)	A			
	Refer to Repair Manual Pub. No. RM1450E (A750F Automatic Transmission / Transaxle / Automatic Transmission Fluid)		-	
	Toyota Genuine ATF WS		-	
Liter (US qts, Imp. qts)	B	20 (204, 15)		
N*m (kgf*cm, ft.*lbf)	B			

		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)	*4, *6	2.65 to 2.75 (2.80 to 2.91, 2.33 to 2.42)	
	*4, *7	1.35 to 1.45 (1.43 to 1.53, 1.18 to 1.27)	
	*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	39 (398, 29)	49 (500, 36)
		KDJ, LJ	
		112 (1142, 83)	
		KDJ, LJ	
		⬆ 30 (1.18)	
		mm (in.)	
	A	Refer to Repair Manual Pub. No. RM1450E (Specifications)	
	B		
	C		
	D		
	E+F		
	G-H mm (in.)		
		Europe	220 (2.2, 32)
kPa (kgf/cm ² , psi)		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

2009/08 – 2010/10

	KDJ, LJ					
*1	Parking Assist Monitor System					
	1.25 to 1.29					
20°C (68°F)						
	1KD-FTV	5L-E				
cc (cu. in.)	2982 (182.0)	2986 (182.2)				
	mm (in.)	N (kgf, lbf)	-	New	7.0 to 10 (0.276 to 0.393) *441 to 539 (45 to 55, 99.1 to 121.2)	
					Used	10 to 14 (0.393 to 0.551) *196 to 343 (20 to 35, 44.1 to 77.1)
					New	11 to 15 (0.433 to 0.590) *372 to 608 (38 to 62, 83.6 to 136.7)
						Used
					New	8 to 10 (0.314 to 0.393) *441 to 539 (45 to 55, 99.1 to 121.2)
						Used
20°C (68°F)	ohm	Approximately 0.95	Approximately 1.0			
	sec.	-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			
			15790 to 16570 (161.0 to 169.0, 2290 to 2403)			
kPa (kgf/cm ² , psi)						

		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)
		MT: 610 to 710 AT: 650 to 750	720 to 820
		4450 to 4750	4850 to 4950
		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)	
		245 (2.5, 36)	294 to 539 (3.0 to 5.5, 43 to 78)
		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)
		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
		34 (347, 25)	35 (352, 25)
		w/o Rear Heater: 13.1 (13.8, 11.5) w/ Rear Heater: 14.9 (15.7, 13.1)	-
		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.

	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	
		5 to 7 Clicks	
200 N (20 kgf, 45 lbf)			
	A	↑ 1.0 (0.0394)	
	B	↑ 29.0 (1.14)	↑ 16.0 (0.630)
mm (in.)			
		↑ 1.0 (0.0394)	
mm (in.)		↓ 211 (8.31)	
		KDJ	LJ
		2.1 (2.2, 1.8)	2.2 (2.3, 1.9)
Liter (US qts, Imp. qts)		SAE 75W	API GL-4 or GL-5 SAE 75W-90
N*m (kgf*cm, ft.*lbf)	(A)	37 (377, 27)	
		Refer to Repair Manual Pub. No. RM1451E (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)		*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)
		KDJ, LJ	
		112 (1142, 83)	
N*m (kgf*cm, ft.*lbf)			
		KDJ, LJ	
		↓ 30 (1.18)	
mm (in.)			
	A	Refer to Repair Manual Pub. No. RM1451E (Specifications, Alignment / Handling Diagnosis)	
	B		
	C		
	D		
	E+F		
	G-H mm (in.)		
	Europe	220 (2.2, 32)	
	Except Europe	200 (2.0, 29)	
kPa (kgf/cm ² , psi)			

*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

2010/10 -

	KDJ, LJ	
*1	Parking Assist Monitor System	
20°C (68°F)	1.25 to 1.29	
	1KD-FTV	5L-E
cc (cu. in.)	2982 (182.0)	2986 (182.2)
* mm (in.) N (kgf, lbf)		New 7.0 to 10 (0.276 to 0.393) *441 to 539 (45 to 55, 99.1 to 121.2)
		Used 10 to 14 (0.393 to 0.551) *196 to 343 (20 to 35, 44.1 to 77.1)
		New 11 to 15 (0.433 to 0.590) *372 to 608 (38 to 62, 83.6 to 136.7)
		Used 15 to 20 (0.590 to 0.787) *196 to 392 (20 to 40, 44.1 to 88.1)
		New 8 to 10 (0.314 to 0.393) *441 to 539 (45 to 55, 99.1 to 121.2)
		Used 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 1.0*3	Approximately 1.0
sec.	w/o DPF: -22°C (-76°F): 8 0°C (32°F): 3 5°C (41°F): 2 30°C (86°F): 0.5 w/ DPF: -25°C (-77°F): 7 -15°C (-59°F): 6 0°C (32°F): 3 20°C (68°F): 0.45	-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
	-	
kPa (kgf/cm ² , psi)	-	15790 to 16570 (161.0 to 169.0, 2290 to 2403)

		0.20 to 0.30 (0.00787 to 0.0118)	
mm (in.)		0.35 to 0.45 (0.0138 to 0.0177)	0.40 to 0.50 (0.0158 to 0.0197)
		AT: 650 to 750 MT: 610 to 710*2 MT: 650 to 750*3	720 to 820
[DLC3 Terminal 9 (TAC) Connected]		4450 to 4750*2 4500 to 4700*3	4850 to 4950
		2700 (27.5, 391)	3138 (32.0, 455)
		2200 (22.5, 320)	1961 (20.0, 284)
kPa (kgf/cm ² , psi)		500 (5.0, 71)	490 (5.0, 71)
		29 (0.3, 4.2) 50 (0.5, 7.3)*3	
kPa (kgf/cm ² , psi)		3000 rpm 2500 rpm	294 to 539 (3.0 to 5.5, 43 to 78)
		1KD-FTV	5L-E
		6.7 (7.1, 5.9)	6.0 (6.3, 5.3)
Liter (US qts, Imp. qts)		7.0 (7.4, 6.2)	6.9 (7.3, 6.1)
		w/o DPF: 5W-30 10W-30 15W-40 20W-50 w/ DPF: 0W-30*4 5W-30	G-DLD1, API CF-4, CF, or ACEA B1 (You may also use API CE or CD) 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)
		w/o Rear Heater: 13.1 (13.8, 11.5) w/ Rear Heater: 14.9 (15.7, 13.1)	-
Liter (US qts, Imp. qts)		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.