

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)	
		↑ 1.0 (0.0394)	
mm (in.)		↓ 211 (8.31)	
		↓ 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 or GL-5 SAE 75W-90	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)		*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	
		112 (1137, 82)	
N*m (kgf*cm, ft.*lbf)			
		TRJ, GRJ	
		↓ 30 (1.18)	
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.)		
	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


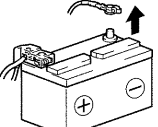
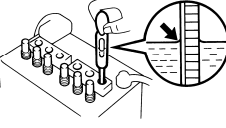

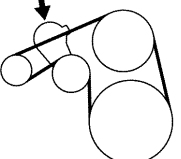
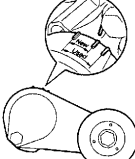
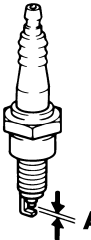


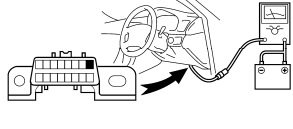
*3: When the brake pedal is depressed with the force of 490 N (50 kgf, 110.2 lbf) while the engine is running.

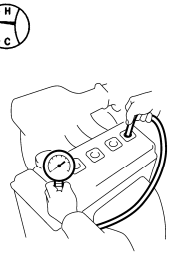



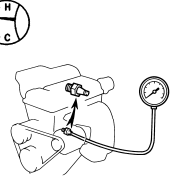





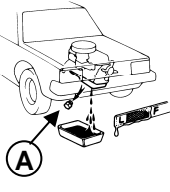
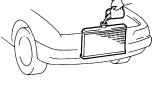


*4: w/o Differential Lock *5: w/ Differential Lock *6: 5 Door *7: 3 Door

LAND CRUISER, LAND CRUISER PRADO

TRJ150, 155
GRJ150

2012/07 -

		TRJ, GRJ	
		Parking Assist Monitor System	
		1.25 to 1.29	
20°C (68°F)			
	cc (cu. in.)	2TR-FE 2694 (164.4)	1GR-FE 3956 (241.4)
			-
	DENSO	SK20HR11	
	NGK	-	
	A mm (in.)	1.0 to 1.1 (0.0394 to 0.0433)	
		3 to 7° [DLC3 terminals 13 (TC) - 4 (CG) connected]	8 to 12° [DLC3 terminals 13 (TC) - 4 (CG) connected]
BTDC			
		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)
kPa (kgf/cm², psi)			
		29 (0.3, 4.2)	
		160 to 490 (1.6 to 5.0, 23 to 71)	294 to 588 (3.0 to 6.0, 43 to 85)
3000 rpm			
kPa (kgf/cm², psi)			
		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)
		0W-20 5W-20 5W-30 10W-30	API grade SL "energy-conserving", SM "energy-conserving", SN "resource-conserving" or ILSAC multigrade engine oil
		15W-40 20W-50	API grade SL, SM or SN multigrade engine oil
Liter (US qts, Imp. qts)	(A)	38 (382, 28)	40 (408, 30)
N*m (kgf*cm, ft.*lbf)			
		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)
Liter (US qts, Imp. qts)		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			
	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)			
	↑ 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)	37 (377, 27)			
N*m (kgf*cm, ft.*lbf)	Ⓐ			
	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)	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)	Ⓒ	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)
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)	Ⓓ	65 (660, 48) 49 (500, 36)
	KDJ, LJ	
	112 (1137, 82)	
N*m (kgf*cm, ft.*lbf)		
	KDJ, LJ	
	↓ 30 (1.18)	
mm (in.)		
	A	Please refer to Repair Manual (Specifications, Alignment / Handling Diagnosis)
	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

2012/07 -

	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)		*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)
		*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)	Approximately 0.95*2 1.0*3	Approximately 1.0
	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
sec.	w/ DPF: -25°C (-13°F): 7 -15°C (5°F): 6 0°C (32°F): 3 20°C (68°F): 0.45	
	-	
	-	15790 to 16570 (161.0 to 169.0, 2290 to 2403)
kPa (kgf/cm², 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)
		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
		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
		2500 rpm	294 to 539 (3.0 to 5.5, 43 to 78)
		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)
		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)
		w/ DPF: 0W-30*4 5W-30	ACEA C2 (Using engine oil other than ACEA C2 may damage catalytic converter)
		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. *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