SDS TOYOTA Land Cruiser Diesel

(Hardtop & Canvas Top)

LJ 70, 72, 73, 77, 79
KZJ 70, 73, 77 PZJ 70, 73, 75
HZJ 70, 73, 75

Sep. '93

	2L-T	3L	1KZ-T	1PZ	1HZ
cm³ or CC (cu. in.)	2446 (149.3)	2779 (169.6)	2982 (182.0)	3470 (211.7)	4164 (254.1)
mm (in.) N (kgf) ※	10 – 14 (0.39 – 0.55) ※196 – 343 (20 – 35)		8 – 12 (0.31 – 0.47) ※196 – 343 (20 – 35)	8 – 11 (0.31 – 0.43) ※196 – 343 (20 – 35)	
	17 – 21 (0.67 – 0.83) ※196 – 343 (20 – 35)		15 – 21 (0.59 – 0.83) ※196 – 343 (20 – 35)	16 – 22 (0.63 – 0.87) ※196 – 343 (20 – 35)	
	10 – 14 (0.39 – 0.55) ※196 – 343 (20 – 35)		—		
20°C (68°F) Ω	0.65			1.15 (12V) 1.10 (24V)	
20°C (68°F) secs	1.6 (Austria) 2.8 (Italy)	6.0	2.1	2.4 (12V – Austria) 6.0 (12V – Others) 1.5 (24V)	
mm (in.)	※ (Austria) 0.54 – 0.66 (0.0213 – 0.0260) (Italy)	0.84 – 0.96 (0.0331 – 0.0378)	0.39 – 0.43 (0.0154 – 0.0169) (Europe) 0.58 – 0.62 (0.0228 – 0.0244) (Others)	0.82 – 0.88 (0.0323 – 0.0346)	0.75 – 0.81 (0.0296 – 0.0319) (Europe) 1.03 – 1.09 (0.0406 – 0.0429) (Others)
	○	×	×	×	
kPa (kgf/cm², psi)	14220 – 15200 (145 – 155 2062 – 2205)	14808 – 15593 (151 – 159 2148 – 2261)		13239 – 15200 (135 – 155 1920 – 2204)	
	14808 – 15593 (151 – 159 2148 – 2261)			14220 – 15200 (145 – 155 2062 – 2204)	
mm (in.)	0.20 – 0.30 (0.008 – 0.012)			0.15 – 0.25 (0.006 – 0.010)	
	0.40 – 0.50 (0.016 – 0.020)	0.25 – 0.35 (0.010 – 0.014)		0.35 – 0.45 (0.014 – 0.018)	

		750	700		650
rpm		—			
		4800	4400 (Hong Kong, Singapore, Malaysia) 4600 (Others)	4600	
kPa (kgf/cm², psi)		3040 (31.0, 441)	3138 (32.0, 455)	3040 (31.0, 441)	3628 (37.0, 526)
		⬆1961 (20.0, 284)			⬆2648 (27.0, 384)
		⬇490 (5.0, 71)			
N·m (kgf-cm, ft-lbf)	A	①78 (800, 58) ②90° ③90°		①39 (400, 29) ②90° ③90°	①69 (700, 51) ②90° ③90°
	B	24 (240, 17)		29 (290, 21)	20 (200, 14)
	C	52 (530, 38)			39 (400, 29)
	D	64 (650, 47)			
	E	29 (300, 22)			37 (375, 27)
kPa (kgf/cm², psi)		⬆29 (0.3, 4.3)			
	3,000 rpm	294 – 539 (3.0 – 5.5 43 – 78)	250 – 600 (2.5 – 6.1 36 – 87)		245 – 588 (2.5 – 6.0 36 – 85)

	2L-T	3L	1KZ-T	1PZ	1HZ
liter (US qts, Imp. qts)	5.7 (6.0, 5.0)		7.3 (7.7 6.4)	7.7 (8.1 6.8)	8.2 (8.7 7.2)
	6.7 (7.1, 5.9)		8.0 (8.5 7.0)	9.0 (9.5 7.9)	9.5 (10.0 8.4)
	API CD or better	API CD or better (Europe) API CC, CD or better (Others)	API CD or better	API CD or better (Europe) API CC, CD or better (Others)	
liter (US qts, Imp. qts)	10.9 (11.5, 9.6) (w/Front Heater) 11.5 (12.2, 10.1) (w/Front and Rear Heater)		10.1 (10.7, 8.9) (w/ Front Heater) 11.1 (11.6, 9.7) (w/ Front and Rear Heater)	10.3 (10.9, 9.1) (w/ Front Heater) 11.3 (11.9, 9.9) (w/ Front and Rear Heater)	10.6 (11.2, 9.3) (w/ Front Heater) 11.6 (12.3, 10.2) (w/ Front and Rear Heater)

※ Check that the punch mark of the belt case is aligned with the pump flange.

Printed in Japan C

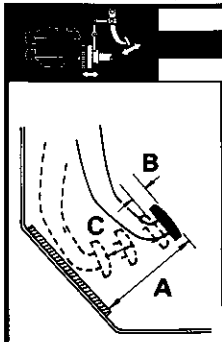
TOYOTA MOTOR CORPORATION Pub. No. SDS262E

Land Cruiser Diesel

(Hardtop & Canvas Top)

LJ70-9057151~, 9502338~ LJ72-0003099~ LJ73-9019205~ LJ79-0005481~
KZJ70 KZJ73 KZJ77
PZJ70-0004684~ PZJ73 PJZ75-0004998~, 8000566~, 8500916~
HZJ70-8000149~, 7000040~ HZJ73-0003636~, 8000630~ HZJ75-0009147~, 8003091~, 8510163~

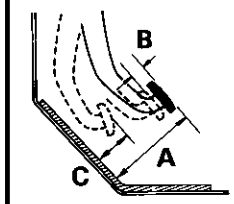
TOYOTA
QUALITY SERVICE



		LJ	KZJ	PZJ	HZJ
A		175.0-185.0 (6.89-7.28)		178.7-188.7 (7.04-7.43)	
B		13.0-23.0 (0.51-0.91)			
		—	15.0-30.0 (0.59-1.18)		
C		⬆25 (0.98)			

mm (in.)

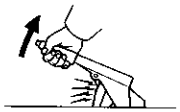
SAE J1703
FMVSS No. 116 DOT3



	LJ	KZJ	PZJ	HZJ
A	160.5-170.5 (6.32-6.71)		164.2-174.2 (6.46-6.86)	
B	3-6 (0.12-0.24)			
C	⬆68 (2.68)			

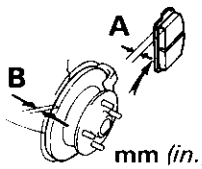
mm (in.)

SAE J1703
FMVSS No. 116 DOT3



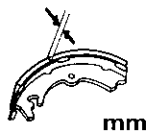
196N (20kgf, 44lbf)

7-9



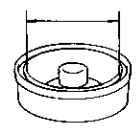
	LJ	KZJ	PZJ	HZJ
A	⬆4.0 (0.157) (Austria) ⬆1.0 (0.039) (Others)		⬆1.0 (0.039)	
B	⬆18.0 (0.709)		⬆16.0 (0.630)	

mm (in.)



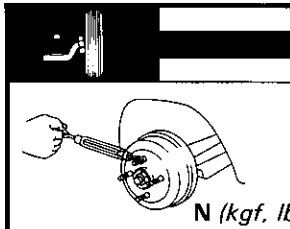
mm (in.)

—			⬆1.0 (0.039)	
			⬆1.5 (0.059) (PZJ, HZJ) ⬆1.0 (0.039) (LJ, KZJ)	



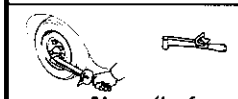
mm (in.)

—			⬇211 (8.31)	
			⬇297.0 (11.693)	



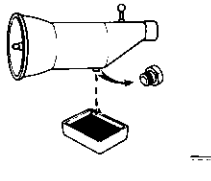
N (kgf, lbf)

		27-56 (2.8-5.7 6.2-12.6)	25-56 (2.6-5.7 5.7-12.6)	



N·m (kgf-cm, ft-lbf)

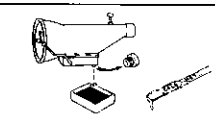
147 (1500 109)



liter (US qts, Imp. qts)

	LJ	KZJ	PZJ	HZJ
1 3 2 4 R	2.8 (3.0, 2.5)	—	3.2 (3.4, 2.8)	—
1 3 5 2 4 R	2.6 (2.7, 2.3) (G52) 3.0 (3.2, 2.6) (R150F)		3.0 (3.2, 2.6)	4.9 (5.2, 4.3)

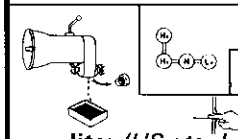
API GL-4 or GL-5
SAE 75W-90 (LJ, PZJ, KZJ)
SAE90 (HZJ)



liter (US qts, Imp. qts)

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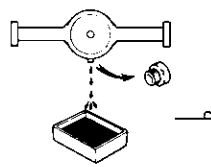
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liter (US qts, Imp. qts)

	LJ	KZJ	PZJ	HZJ
	2.1 (2.2, 1.8)		2.2 (2.3, 1.9)	
w/PTO	——		2.7 (2.8, 2.3)	

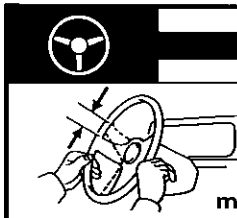
API GL-4 or GL-5
SAE 90



liter (US qts, Imp. qts)

	LJ	KZJ	PZJ	HZJ
	1.98 (2.1 1.7)	1.85 (2.0 1.6)	2.6 (2.7 2.3)	2.5 (2.6 2.2)

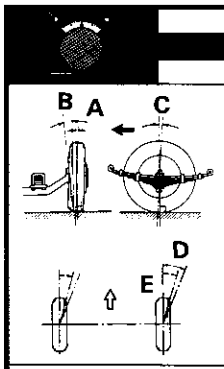
API GL-5
With LSD use LSD oil only
SAE 90 (⬆ -18°C (0°F))
SAE 80W, 80W-90 (⬇ -18°C (0°F))



mm (in.)

LJ·KZJ·PZJ·HZJ

⬇30 (1.18)



		LJ KZJ	PZJ, HZJ 70, 73	PZJ, HZJ 75L(R) V	PZJ, HZJ 75L(R) P
A		1°±45′			
B		12°±45′			
C		4°00′ ±1°	3°15′ ±1°	2°50′ ±1°	2°30′ ±1°
D		32° +0° −3°			
E		21°	22°		
F+G		−0°06′±12′ (31×10.50R15-6PRLT 265/75R15) 0°06′±12′ (Others)			
		0°24′±12′			
H−I mm (in.)		−1±2 (−0.04±0.08) (31×10.50R15-6PRLT 265/75R15) 1±2 (0.04±0.08) (Others)			
		4±2 (0.16±0.08)			

Australia kPa (kgf/cm², psi)	HZJ70	7.50R16-6PRLT	200 (2.0, 28)	350 (3.5, 51)	240 (2.4, 34)	350 (3.5, 51)
	HZJ75	7.50R16-8PRLT	220 (2.2, 32)	390 (3.9, 55)	240 (2.4, 34)	420 (4.2, 60)
Europe kPa (kgf/cm², psi)	LJ70, 73	215/80R16 107S	160 (1.6, 23)	200 (2.0, 29)	160 (1.6, 23)	200 (2.0, 29)
	KZJ70, 73	265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
	KZJ77	215/80R16 107S	180 (1.8, 26)	260 (2.6, 38)	180 (1.8, 26)	260 (2.6, 38)
		265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
	HZJ70, 73	215/80R16 107S	180 (1.8, 26)	200 (2.0, 29)	200 (2.0, 29)	220 (2.2, 32)
		265/75R15 112S	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	200 (2.0, 29)
	HZJ75	205R16C 8PR	220 (2.2, 32)	450 (4.5, 65)	250 (2.5, 36)	450 (4.5, 65)
General kPa (kgf/cm², psi)	PZJ70, 73	7.50-16-6PRLT	180 (1.8, 26)	200 (2.0, 29)	180 (1.8, 26)	240 (2.4, 35)
		7.00R15-6PRLT	200 (2.0, 29)	275 (2.75, 40)	225 (2.25, 33)	300 (3.0, 44)
		7.50R16-6PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		7.50R16-8PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		31×10.50R15-6PRLT	180 (1.8, 26)	250 (2.5, 36)	210 (2.1, 30)	280 (2.8, 41)
	PZJ75 HZJ75	7.50-16-8PRLT	240 (2.4, 35)	350 (3.5, 51)	280 (2.8, 41)	400 (4.0, 58)
		7.50R16-6PRLT(FR)	225 (2.25, 33)	——	250 (2.5, 36)	——
		7.50R16-8PRLT(RR)	——	375 (3.75, 54)	——	400 (4.0, 58)
		7.50R16-6PRLT	225 (2.25, 33)	350 (3.5, 51)	250 (2.5, 36)	375 (3.75, 54)
		7.50R16-8PRLT	225 (2.25, 33)	375 (3.75, 54)	250 (2.5, 36)	400 (4.0, 58)
		235/95RC 116N	180 (1.8, 26)	220 (2.2, 32)	180 (1.8, 26)	280 (2.8, 41)
	LJ72 KZJ70	7.50-16-6PRLT	180 (1.8, 26)	180 (1.8, 26)	180 (1.8, 26)	220 (2.2, 32)
		7.00R15-6PRLT	200 (2.0, 29)	275 (2.75, 40)	225 (2.25, 33)	300 (3.0, 44)
		7.50R16-6PRLT	200 (2.0, 29)	225 (2.25, 33)	225 (2.25, 33)	250 (2.5, 36)
		205R16C 6PR	170 (1.7, 25)	200 (2.0, 29)	170 (1.7, 25)	240 (2.4, 35)
		31×10.50R15-6PRLT	180 (1.8, 26)	210 (2.1, 30)	180 (1.8, 26)	250 (2.5, 36)
	LJ79 KZJ77	7.50-16-6PRLT	180 (1.8, 26)	260 (2.6, 38)	180 (1.8, 26)	300 (3.0, 44)
		7.50R16-6PRLT	225 (2.25, 33)	350 (3.5, 51)	250 (2.5, 36)	375 (3.75, 54)
		205R16C 6PR	200 (2.0, 29)	320 (3.2, 46)	200 (2.0, 29)	360 (3.6, 52)
		31×10.50R15-6PRLT	190 (1.9, 28)	280 (2.8, 41)	190 (1.9, 28)	300 (3.0, 44)

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