SDS TOYOTA Hilux

RZN142, 144, 147, 148, 149, 154
168, 169, 173, 174, 193

Aug. '97

		1RZ	1RZ-E	2RZ-FE	3RZ-F	3RZ-FE
	cm³ or CC *(cu. in.)*	1998 *(121.9)*		2438 *(148.8)*	2694 *(164.4)*	
mm *(in.)* / N *(kgf)*		7–8 *(0.28–0.31)* ※295–440 *(30–45)*				
		10–13 *(0.39–0.51)* ※196–343 *(20–35)*				
		9–12 *(0.35–0.47)* ※196–343 *(25–40)*		6–7.5 *(0.24–0.30)* ※245–392 *(25–40)*	7–9 *(0.28–0.35)* ※245–392 *(25–40)*	6–7.5 *(0.24–0.30)* ※245–392 *(25–40)*
A mm *(in.)*	**DENSO**	W16EX-U	W16EXR-U	K16R-U		
	NGK	BP5EY	BPR5EY	BKR5EYA		
	A	0.8 *(0.031)*				
kΩ		25				
BTDC		5° (w/ Sub–Vacuum Advance cut)	5° (Check Connector TE_1–E_1 Connected)	5° (DLC3 Terminals 13(TC)–4(CG) Connected)	5° (w/ Sub–Vacuum Advance cut)	5° (DLC3 Terminals 13(TC)–4(CG) Connected)
mm *(in.)*		0.20–0.30 *(0.008–0.012)*		0.15–0.25 *(0.006–0.010)*		
		0.25–0.35 *(0.010–0.014)*		0.25–0.35 *(0.010–0.014)*		
rpm		700–800		650–750 (DLC3 Terminals 9(TACH)Connected)	750–850	650–750 (DLC3 Terminals 9(TACH)Connected)
CO%		1.0–2.0		0–0.5	1.0–2.0	

kPa *(kgf/cm², psi)*		1230 *(12.5, 178)*	1127 *(11.5, 163)*	1230 *(12.5, 178)*
		⬆ 880 *(9.0, 127)*		
		⬇ 98 *(1.0, 14)*		
kPa *(kgf/cm², psi)*		⬆ 29 *(0.3, 4.3)*		
	3,000rpm	245–490 *(2.5–5.0, 36–71)*		
N–m *(kgf·cm, ft·lbf)*	**A**	①39 *(400, 29)* ②90° ③90°		
	B	29 *(300, 21)*		
	C	49 *(500, 36)*		

	1RZ	1RZ-E	2RZ-FE	3RZ-F	3RZ-FE
liter *(US qts, Imp. qts)*	4.0 *(4.2, 3.5)*		4.0 *(4.2, 3.5)* (2WD) 5.3 *(5.6, 4.7)* (4WD)		
	4.7 *(5.0, 4.1)*		4.7 *(5.0, 4.1)* (2WD) 6.0 *(6.3, 5.3)* (4WD)		
	API grade SH, Energy–Conserving II or SJ, Energy–Conserving or ILSAC* multigrade engine oil				
liter *(US qts, Imp. qts)*	w/ Heater 7.8 *(8.2, 6.9)* w/o Heater 7.3 *(7.7, 6.4)*	7.8 *(8.2, 6.9)*	w/ Heater 7.4 *(7.8, 6.5)* w/o Heater 6.9 *(7.3, 6.1)*	w/ Heater 7.7 *(8.1, 6.8)* w/o Heater 7.2 *(7.6, 6.3)*	7.7 *(8.1, 6.8)*

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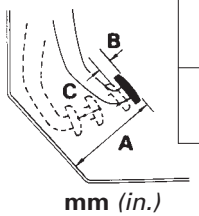
*ILSAC: International Lubricant Standardization and Approval Committee

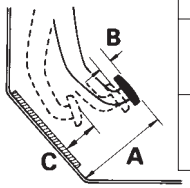
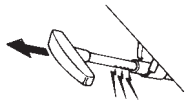
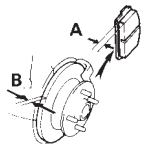
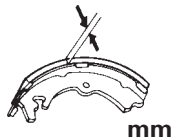
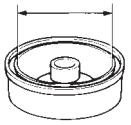
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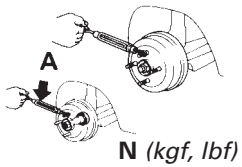
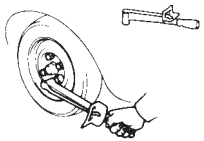
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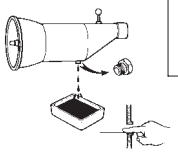
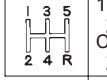
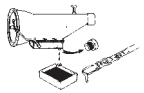
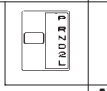
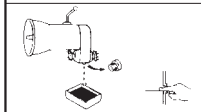
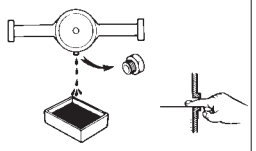
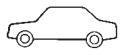
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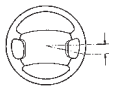
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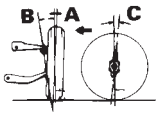
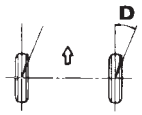
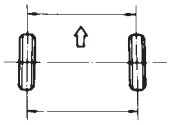
		RZN
 mm *(in.)*	A	LHD : 173 *(6.811)* RHD : 177 *(6.968)*
	B	5 – 15 *(0.197 – 0.591)*
	C	⬆ 25 *(0.984)*
		SAE J1703, FMVSS No. 116 DOT3

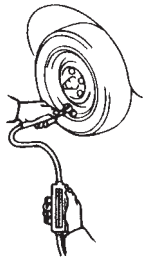
		4 × 2	4 × 4
 mm *(in.)*	A	LHD : 161.1 *(6.343)* RHD : 167.1 *(6.602)*	
	B	1 – 6 *(0.04 – 0.24)*	
	C	LHD : 80 *(3.150)* RHD : 85 *(3.346)*	LHD : 75 *(2.953)* RHD : 80 *(3.150)*
		SAE J1703, FMVSS No. 116 DOT3	
196 N *(20kgf, 44.1lbf)* 		11 – 17	
 mm *(in.)*	A	⬆ 1.0 *(0.039)*	
	B	⬆ 23.0 *(0.906)*	⬆ 18.0 *(0.709)*
 mm *(in.)*		⬆ 1.0 *(0.039)*	
 mm *(in.)*		⬇ 272 *(10.709)*	⬇ 297.0 *(11.693)*

	4 × 2	4 × 4
 **N** *(kgf, lbf)*	A+[5.9 – 17.7] *(0.6 – 1.8 1.3 – 4.0)*	A+[13 – 38] *(1.3 – 3.9 2.9 – 8.8)*
 **N·m** *(kgf·cm, ft·lbf)*	LN191 103 *(1050, 76)* Others 137 *(1400, 101)*	103 *(1050, 76)*

		4 × 2	4 × 4
 **liter** *(US qts, Imp. qts)*		1RZ, 1RZ–E 2.2 *(2.3, 1.9)* Others 2.6 *(2.7, 2.3)*	2.5 (2.6, 2.2)
		API GL–4 or GL–5 SAE 75W–90	
 **liter** *(US qts, Imp. qts)*		1.6 *(1.7, 1.4)*	—
		ATF DII or DEXRON®III (DEXRON®II)	
 **liter** *(US qts, Imp. qts)*		—	1.1 *(1.2, 1.1)*
		API GL–4 or GL–5 SAE 75W–90	
 **liter** *(US qts, Imp. qts)*			
		—	1RZ-E 1.8 *(1.9, 1.6)* 2RZ-FE, 3RZ-F 2.0 *(2.1, 1.8)* RZN 2.7 *(2.9, 2.4)*
			w/ A.D.D. 1.86 *(1.97, 1.65)* w/oA.D.D. 1.6 *(1.7, 1.4)*
			2.7 *(2.9, 2.4)*
		Hypoid gear oil API GL–5 With LSD use LSD oil only With A.D.D. use SAE 75W–90 SAE90 (⬆ –18°C *(0°F)*) SAE80W, 80W–90 (⬇ –18°C) *(0°F)*	

	RZN
 mm *(in.)*	⬇ 30 *(1.18)*

		4 × 2					4 × 4 (Include Pre Runner)		
		B–cab		W–cab		C–cab	B–cab	W–cab	C–cab
		Short	Long	DLX	SR				
 	A	–0°05′±45′ *(–0.08°±0.75°)*	–0°10′±45′ *(–0.17°±0.75°)*	–0°05′±45′ *(–0.08°±0.75°)*	–0°05′±45′ *(–0.08°±0.75°)* (GCC) 0°00′±45′ *(0°±0.75°)* (Others)	–0°05′±45′ *(–0.08°±0.75°)*	0°15′±45′ *(0.25°±0.75°)*		
	B	10°35′±45′ *(10.58°±0.75°)*	10°40′±45′ *(10.67°±0.75°)*	10°35′±45′ *(10.58°±0.75°)*	10°35′±45′ *(10.58°±0.75°)* (GCC) 10°30′±45′ *(10.5°±0.75°)* (Others)	10°35′±45′ *(10°58±0.75°)*	12°15′±45′ *(12.25°±0.75°)*		
	C	1°05′±45′ *(1.08°±0.75°)* (GCC) 1°00′±45′ *(1°±0.75°)* (Others)	1°20′±45′ *(1.33°±0.75°)*	1°15′±45′ *(1.25°±0.75°)* (Australia) 1°00′±45′ *(1°±0.75°)* (GCC) 1°20′±45′ *(1.33°±0.75°)* (Others)	1°00′±45′ *(1°±0.75°)* (GCC) 1°10′±45′ *(1.17°±0.75°)* (Others)	1°20′±45′ *(1.33°±0.75°)*	0°50′±45′ *(0.83°±0.75°)* (RZN169) 1°10′±45′ *(1.17°±0.75°)* (Others)	1°10′±45′ *(1.17°±0.75°)*	1°30′±45′ *(1.5°±0.75°)* (Europe) 1°15′±45′ *(1.25°±0.75°)* (Others)
	D	36° +1° –2°					33° +1° –2°		
		38° +1° –2°							
 mm *(in.)*		4±2 *(0.16±0.08)*	6±2 *(0.24±0.08)*	4±2 *(0.16±0.08)* (Australia) 5±2 *(0.20±0.08)* (Others)	5±2 *(0.20±0.08)* (GCC) 3±2 *(0.12±0.08)* (Others)	4±2 *(0.16±0.08)*	2±2 *(0.08±0.08)* (Europe) 3±2 *(0.12±0.08)* (Others)		2±2 *(0.08±0.08)*

 **kPa** *(kgf/cm² or bar, psi)*	185R14C–8PR	200 *(2.0, 29)* ※1 220 *(2.2, 32)* ※2	450 *(4.5, 65)*
	195R14C–8PR	220 *(2.2, 32)*	450 *(4.5, 65)*
	195R15C–6PRLT	180 *(1.8, 26)*	375 *(3.75, 54)*
	205R16 (Reinfored radial tire)	170 *(1.7, 25)*	260 *(2.6, 38)* ※3 240 *(2.4, 35)* ※2
	205R16C–6PR	170 *(1.7, 25)*	300 *(3.0, 44)*
	7.00–16–8PRLT	240 *(2.4, 35)*	425 *(4.25, 62)*
	255/70R15 112LT	190 *(1.9, 28)*	240 *(2.4, 34)*
	※1 : RZN142L ※2 : Europe ※3 : Others		

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