SDS TOYOTA Hilux

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

Aug. '99

		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) ※196–392 (20–40)				
		9–12 (0.35–0.47) ※196–343 (20–35)		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	Eurepe BKR5EYA Others BKR5EYA	BKR5EYA	BKR5EYA
	A	0.8 (0.031)				
kΩ		25				
BTDC		5° (w/ Sub-Vacuum Advance cut)	5° (Check Connector TE1–E1 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)		
	3,000 rpm	245–490 (2.5–5.0, 36–71)		
N·m (kgf·cm, ft·lbf)	A	① 39 (400, 29) ② 90° ③ 90°		
	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)

*ILSAC: International Lubricant Standardization and Approval Committee

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TOYOTA MOTOR CORPORATION

Pub. No. SDS415E

Hilux

RZN142–*0002596*~ RZN144–*0021630*~ RZN147–*0015390*~ RZN148–*0006801*~ RZN149–*0049574*~
RZN154–*0002563*~ RZN168–*0004026*~ RZN169–*0010768*~ RZN173–*0001423*~ RZN174–*0001569*~ RZN193–*0001280*~

TOYOTA QUALITY SERVICE

	RZN
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

mm *(in.)*

	4×2	4×4 (Include Pre Runner)
A	LHD : 161.1 *(6.343)* RHD : 167.7 *(6.579)*	
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	

mm *(in.)*

196 N *(20kgf, 44.1lbf)*	11–17
A	⇧ 1.0 *(0.039)*
B	⇧ 23.0 *(0.906)* / ⇧ 18.0 *(0.709)*
	⇧ 1.0 *(0.039)*
	Europe ⇩ 272 *(10.709)* Others ⇩ 256 *(10.787)* / ⇩ 297.0 *(11.693)*

mm *(in.)*

	4×2	4×4
	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 *(kgf, lbf)*		
	LN191 103 *(1050, 76)* Others 137 *(1400, 101)*	103 *(1050, 76)*
N·m *(kgf·cm, ft·lbf)*		

	4×2	4×4
	1RZ, 1RZ–E 2.2 *(2.3, 1.9)* Others 2.6 *(2.7, 2.3)*	2.5 *(2.6, 2.2)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	
	1.6 *(1.7, 1.4)*	—
liter *(US qts, Imp. qts)*	**ATF DII or DEXRON®III (DEXRON®II)**	
	—	1.1 *(1.2, 1.1)*
liter *(US qts, Imp. qts)*	**API GL–4 or GL–5 SAE 75W–90**	
	—	1RZ-E 1.8 *(1.9, 1.6)* 2RZ-FE, 3RZ-F 2.0 *(2.1, 1.8)* RZN 19# 2.7 *(2.9, 2.4)* GCC 2.4 *(2.5, 2.1)*
		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)*
liter *(US qts, Imp. qts)*	**Hypoid gear oil API GL–5 With LSD use LSD oil only With A.D.D. use SAE 75W–90 SAE90**	

	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	**Please refer to the Repair Manual Pub.No.RM651E, RM706E (Service Specification)**							
B								
C								
D	36° +1° −2°					33° +1° −2°		
	38° +1° −2°							
mm *(in.)*	**Please refer to the Repair Manual Pub.No.RM651E (Service Specification)**							

	185R14C–8PR	200 *(2.0, 29)* ※1 220 *(2.2, 32)* ※2	450 *(4.5, 65)*
	195R14C–8PR	220 *(2.2, 32)*	220 *(2.2, 32)* ※3 450 *(4.5, 65)* ※4
	195R15C 195R15C–6PRLT	180 *(1.8, 26)*	375 *(3.75, 54)*
	205R16 (Reinforced radial tire)	170 *(1.7, 25)*	170 *(1.7, 25)* ※3 260 *(2.6, 38)* ※2 240 *(2.4, 35)* ※4
	205R16C–6PR	170 *(1.7, 25)*	200 *(2.0, 29)* ※3 300 *(3.0, 44)* ※4
	255/70R15 112LT	190 *(1.9, 28)*	190 *(1.9, 28)* ※3 240 *(2.4, 34)* ※4

kPa *(kgf/cm² or bar, psi)*

※1 : RZN142L ※2 : Europe ※3 : Australia (unloaded) ※4 : Others

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