SDS TOYOTA Hilux

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

Jan. '02

		1RZ	1RZ-E	2RZ-FE	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)	6–7.5 (0.24–0.30) ※245–392 (25–40)
mm (in.)	DENSO	G.C.C. W16EXR-U Others W16EX-U	W16EXR-U	K16R-U	
	NGK	G.C.C. BPR5EY Others BP5EY	BPR5EY	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)	
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)	Unleaded: 650–750 Leaded: 750–850 (DLC3 Terminals 9(TACH)Connected)
CO% *1		1.0–2.0		0–0.5	Unleaded: 0–0.5 Leaded: 1.0–2.0

kPa (kgf/cm², psi)		1230 (12.5, 178)	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-FE
liter (US qts, Imp. qts)	4.0 (4.2, 3.5)		2WD except Pre Runner 4.0 (4.2, 3.5) 4WD and Pre Runner 5.3 (5.6, 4.7)	
	4.7 (5.0, 4.1)		2WD except Pre Runner 4.7 (5.0, 4.1) 4WD and Pre Runner 6.0 (6.3, 5.3)	
	API grade SJ, "Energy–Conserving", SL "Energy–Conserving" or ILSAC*2 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)

Printed in Japan

*1 In the 2 mode (2,500 rpm and idle) test, follow the measurement order prescribed by the applicable local regulations.

*2 ILSAC: International Lubricant Standardization and Approval Committee

TOYOTA MOTOR CORPORATION

Pub. No. SDS458E

Hilux

RZN142 – *0004326~* RZN144 – *0037089~* RZN147 – *0028429~* RZN148 – *0009647~* RZN149 – *0090284~*
RZN154 – *0003821~* RZN168 – *0006750~* RZN169 – *0017844~* RZN174 – *0002818~* RZN193 – *0001498~*

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 or FMVSS No. 116 DOT3

mm *(in.)*

	4×2 (Except Pre Runner)	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 or 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)*

mm *(in.)*

⇧ 1.0 *(0.039)*

mm *(in.)*

	⇩ 256.0 *(10.079)*	⇩ 297.0 *(11.693)*

mm *(in.)*

	4×2	4×4
A	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)*		
N·m *(kgf·cm, ft·lbf)*	137 *(1400, 101)*	105 *(1070, 77)*

	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**	

	Except Pre Runner		Include Pre Runner	
	—	G.C.C. 2.4 *(2.5, 2.1)* Except G.C.C. 3RZ (M/T) 2.0 *(2.1, 1.8)* Others 1.8 *(1.9, 1.6)*	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
	⇩ 30 *(1.18)*

mm *(in.)*

	4×2 (Except Pre Runner)					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.RM909E (Service Specification)**							
B								
C								
D	35° +1° −2°					RHD 32°20′ +1° −2° LHD 33° +1° −2°		
	37° +1° −2°					33°20′ +1° −2°		
	Please refer to the Repair Manual Pub.No.RM909E (Service Specification)							

mm *(in.)*

185R14C–8PR	220 *(2.2, 32)* 200 *(2.0, 29)* *5	450 *(4.5, 65)*
195R14C–8PR	220 *(2.2, 32)*	450 *(4.5, 65)* 220 *(2.2, 32)* *4
195/80R15 103/101LLT	180 *(1.8, 26)*	375 *(3.75, 54)* 180 *(1.8, 26)* *6
195R15C 103/101R	180 *(1.8, 26)*	375 *(3.75, 54)*
205/70R15C 8PR	200 *(2.0, 29)*	400 *(4.0, 58)* *1 200 *(2.0, 29)* *2
205R16 Reinforced	170 *(1.7, 25)*	240 *(2.4, 35)* 170 *(1.7, 25)* *4,*6
205R16C–6PR	170 *(1.7, 25)*	300 *(3.0, 44)* 220 *(2.2, 32)* *4
255/70R15C 112R	190 *(1.9, 28)*	240 *(2.4, 35)*
255/70R15 112LLT	190 *(1.9, 28)*	240 *(2.4, 35)* *3 190 *(1.9, 28)* *4
Front 6.00–14–6PRLT Rear 6.50–14–8PRLT	200 *(2.0, 29)* *1 180 *(1.8, 26)* *2	425 *(4.25, 62)* *1 240 *(2.4, 35)* *2
7.00–16–8PRLT	240 *(2.4, 35)*	425 *(4.25, 62)*

kPa *(kgf/cm² or bar, psi)*

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*1 General (Loaded) *2 General (Unloaded) *3 Australia (Loaded) *4 Australia (Unloaded) *5 RZN142 models only *6 Chiri

Overseas Service Division: 01-020128-00