SDS TOYOTA Hilux

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

Jan. '01

		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	G.C.C. W16EXR-U Others W16EX-U	W16EXR-U	K16R-U		
	NGK	G.C.C. BPR5EY Others 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	Latin America 0–0.5 Others 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)		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 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)

Printed in Japan [I]

*ILSAC: International Lubricant Standardization and Approval Committee

TOYOTA MOTOR CORPORATION

Pub. No. SDS440E

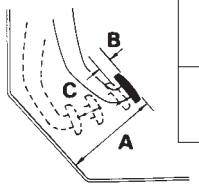
Hilux

RZN142 – *0003444~* RZN144 – *0027422~* RZN147 – *0021166~* RZN148 – *0008675~* RZN149 – *0069325~*
RZN154 – *0003321~* RZN168 – *0005603~* RZN169 – *0014205~* RZN173 – *0001569~* RZN174 – *0002248~* RZN193 – *0001421~*

TOYOTA QUALITY SERVICE

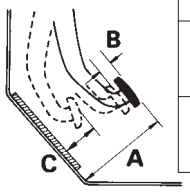
Brake

	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



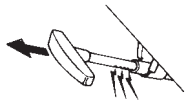
mm *(in.)*

	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	

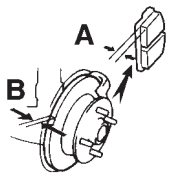


mm *(in.)*

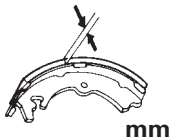
196 N *(20kgf, 44.1lbf)*	11–17



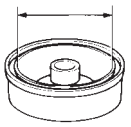
A	⬆ 1.0 *(0.039)*	
B	⬆ 23.0 *(0.906)*	⬆ 18.0 *(0.709)*



mm *(in.)*



mm *(in.)* ⬆ 1.0 *(0.039)*

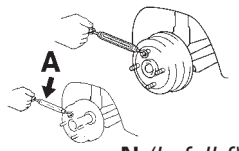


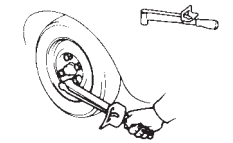
mm *(in.)*

	⬇ 256 *(10.787)*	⬇ 297.0 *(11.693)*

Front Axle

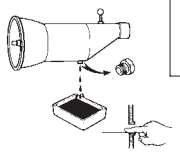
	4×2	4×4
N *(kgf, lbf)*	A+[5.9–17.7] *(0.6–1.8 1.3–4.0)*	A+[13–38] *(1.3–3.9 2.9–8.8)*
N·m *(kgf·cm, ft·lbf)*	Australia 147 *(1500, 108)* Others 137 *(1400, 101)*	103 *(1050, 76)*

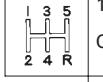




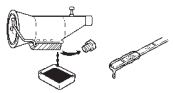
Engine

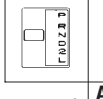
	4×2	4×4
liter *(US qts, Imp. qts)*	1RZ, 1RZ–E 2.2 *(2.3, 1.9)* Others 2.6 *(2.7, 2.3)*	2.5 *(2.6, 2.2)*
	API GL–4 or GL–5 SAE 75W–90	



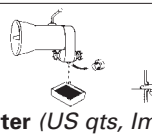


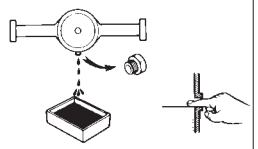
liter *(US qts, Imp. qts)*	1.6 *(1.7, 1.4)*	—
	ATF DII or DEXRON®III (DEXRON®II)	





liter *(US qts, Imp. qts)*	—	1.1 *(1.2, 1.1)*
	API GL–4 or GL–5 SAE 75W–90	

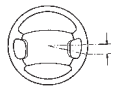




—	G.C.C. 2.4 *(2.5, 2.1)* RZN19# 2.7 *(2.9, 2.4)* Others 1.8 *(1.9, 1.6)*	w / A.D.D. 1.86 *(1.97, 1.65)* w / oA.D.D. 1.6 *(1.7, 1.4)*	3RZ-FE (AT) 2.4 *(2.5, 2.1)* Others 2.7 *(2.9, 2.4)*	
liter *(US qts, Imp. qts)*	**Hypoid gear oil API GL–5 With LSD use LSD oil only With A.D.D. use SAE 75W–90 SAE90**			

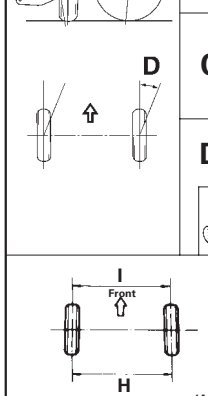
Steering

	RZN
mm *(in.)*	⬇ 30 *(1.18)*

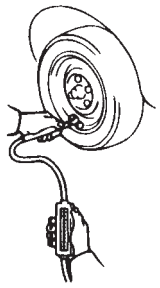


Wheel Alignment

	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.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)**							



Wheel



185R14C–8PR	200 *(2.0, 29)* ※1 220 *(2.2, 32)* ※5	450 *(4.5, 65)*
195R14C–8PR	220 *(2.2, 32)*	220 *(2.2, 32)* ※3 450 *(4.5, 65)* ※5
195R15C 195R15–6PRLT	180 *(1.8, 26)*	375 *(3.75, 54)*
205R16 (Reinfored 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)*	220 *(2.2, 32)* ※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)*

© 2000 TOYOTA MOTOR CORPORATION

※1 RZN142 ※2 Europe ※3 Australia (Unloaded) ※4 Australia (Loaded) ※5 Others

Overseas Service Division: 01-001222-00