SDS TOYOTA Hilux Diesel

LN 141, 145, 146, 147, 152, 166, 167, 171, 172, 191
KZN 165
KDN 145, 150, 165, 170, 190

Jan. '03

	2L	3L	5L–E	1KZ–TE	2KD–FTV
cm³ or CC *(cu. in.)*	2446 *(149.3)*	2779 *(169.6)*	2986 *(182.2)*	2982 *(182.0)*	2494 *(152.2)*
mm *(in.)* **N** *(kgf)* ※	10–14 *(0.39–0.55)* ※196–343 *(20–35)*			8–12 *(0.31–0.47)* ※196–343 *(20–35)*	—
	17–21 *(0.67–0.83)* ※196–392 *(20–40)*			15–21 *(0.59–0.83)* ※196–392 *(20–40)*	—
	10–15 *(0.39–0.59)* ※196–343 *(20–35)*			—	—
	9–12 *(0.35–0.47)* ※196–343 *(20–35)*		—		
	—				Exc. Europe / Europe, Asia and Libya
20°C *(68°F)* Ω	0.72				
20°C *(68°F)* **secs**	Europe, 3.0 Others 5.0	Malaysia 3.0 Others 5.0	3.2	1.1	3.0
mm *(in.)*	Europe 0.55–0.65 *(0.0217–0.0256)* Others 0.84–0.96 *(0.0331–0.0378)*	Malaysia 0.54–0.66 *(0.0213–0.0260)* Others *0.84–0.96* *(0.0331–0.0378)*	—		
	○	×	×	×	—
kPa *(kgf/cm², psi)*	14220–15200 *(145–155 2062–2205)*		15200–16180 *(155–165 2205–2347)*	14710–15690 *(150–160 2134–2276)*	—
	14810–15590 *(151–159 2148–2262)*		15790–16570 *(161–169 2290–2404)*	15298–16083 *(156–164 2219–2333)*	—
mm *(in.)*	0.20–0.30 *(0.008–0.012)*				
	0.40–0.50 *(0.016–0.020)*			0.25–0.35 *(0.010–0.014)*	0.35–0.45 *(0.014–0.018)*

rpm	H/C	650–750	720–820	650–750	M/T 700–800 A/T 700–800
		4770–5030	Malaysia 4270–4530 Others 4470–4730	4770–5030	4450–4750 (Lo / Hi)
		4450–4750		4450–4750	
kPa *(kgf/cm², psi)*		3138 *(32.0, 455)*	3138 *(32.0, 455)*	3138 *(32.0, 455)*	3040 *(31.0, 441)*	2700 *(27.5, 391)*
		⬆ 1961 *(20.0, 284)*				⬆ 2200 *(22.5, 320)*
		⬇ 490 *(5.0, 71)*				⬇ 500 *(5.0, 71)*
N·m *(kgf·cm, ft·lbf)*	**A**	① ① 78 *(800, 58)* ② 90° ③ 90°		① 39 *(400, 29)* ② 90° ③ 90°		① 85 *(867, 63)* ② 90° ③ 90°
	B	23.5 *(240, 17)*		29 *(290, 21)*		
	C	52 *(530, 38)*				
	D	64 *(650, 47)*		54 *(540, 40)*		21.6 *(220, 16)*
	E	46.6 *(475, 34)*		47 *(479, 35)*		35 *(357, 26)* 31.9 *(325, 24)**1
kPa *(kgf/cm², psi)*	H/C	⬆ 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 *(2.5, 33)*

	2L	3L	5L–E 2WD	5L–E 4WD	1KZ–TE	2KD–FTV 2WD*2	2KD–FTV 4WD*3
liter *(US qts, Imp. qts)*	5.3 *(5.6, 4.7)* (2WD except Pre Runner) 6.0 *(6.3, 5.3)* (4WD & Pre Runner)				6.4 *(6.8, 5.6)*	6.1 *(6.4, 5.4)*	5.9 *(6.2, 5.2)*
	6.0 *(6.3, 5.3)* (2WD except Pre Runner) 6.9 *(7.3, 6.1)* (4WD & Pre Runner)				7.1 *(7.5, 6.2)*	6.8 *(7.2, 6.0)*	6.6 *(7.0, 5.8)*
	DLD-1*4, API CF-4 or CF (You may also use API CE or CD)						
liter *(US qts, Imp. qts)*	w/Heater 9.5 *(10.0, 8.4)* w/o Heater 8.7 *(9.2, 7.7)*		w/ Heater 9.7 *(10.3, 8.5)* w/ o Heater 8.9 *(9.4, 7.8)*	w/ Heater 9.9 *(10.5, 8.7)* w/ o Heater 9.1 *(9.6, 8.0)*	10.5 *(11.1, 9,2)*	Europe 10.0 *(10.6, 8.8)* General 9.2 *(9.7, 8.1)*	Europe 10.4 *(11.0, 9.2)*

Printed in Japan

*1 For use with SST *2 Except Pre Runner *3 Include Pre Runner *4 Except Europe

TOYOTA MOTOR CORPORATION

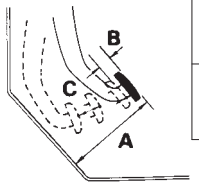
Pub. No. SDS469E

Hilux Diesel

LN141 – *0003792*~ LN145 – *0070559*~ LN146 – *0011087*~ LN147 – *0011120*~ LN152 – *0001378*~
LN166 – *0085115*~ LN167 – *0026630*~ LN171 – *0004812*~ LN172 – *0005689*~ LN191 – *0002456*~
KZN165 – *0011390*~ KDN145 – *0005568*~ KDN150 – *0001907*~
KDN165 – *0011015*~ KDN170 – *0005414*~ KDN190 – *0001610*~

TOYOTA QUALITY SERVICE

LN, KZN, KDN



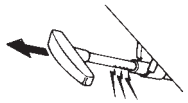
mm *(in.)*

A	LHD : 170.0 – 180.0 (6.693 – 7.087) RHD : 172.0 – 182.0 (6.772 – 7.165)
B	5 – 15 *(0.197 – 0.591)*
C	⬆ 25 *(0.984)*
	SAE J1703 or FMVSS No. 116 DOT3

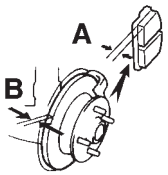
	4 × 2 (Except Pre Runner)	4 × 4 (Include Pre Runner)
A	LHD : 161.1 *(6.343)* RHD : 167.7 *(6.579)*	
B	1 – 6 *(0.04 – 0.24)*	
C	LHD : 80 *(3.150)* RHD : 85 *(3.346)*	LHD : 75 *(2.953)* RHD : 80 *(3.150)*
	SAE J1703 or FMVSS No. 116 DOT3	

mm *(in.)*

196 N *(20 kgf, 44.1 lbf)*

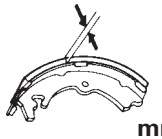


11 – 17



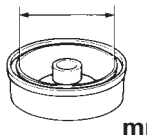
mm *(in.)*

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



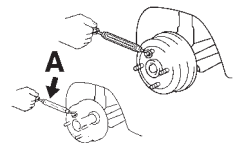
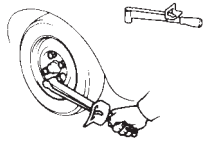
mm *(in.)*

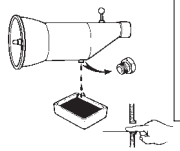
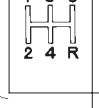
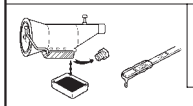
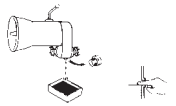
⬆ 1.0 *(0.039)*

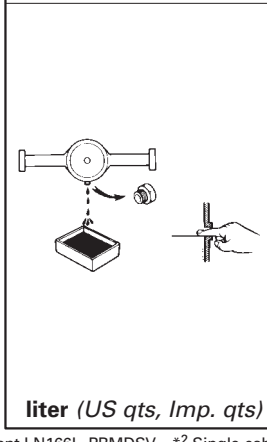


mm *(in.)*

⬇ 256.0 *(10.079)*	⬇ 297.0 *(11.693)*	

	4 × 2 (Except Pre Runner)	4 × 4 (Include Pre Runner)
 **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)*	137 *(1400, 101)*	105 *(1070, 77)*

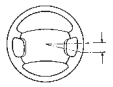
	4 × 2	4 × 4
 **liter** *(US qts, Imp. qts)*	 2.2 *(2.3, 1.9)*	1KZ–TE, 2KD–FTV 2.2 *(2.3, 1.9)* 3L (Except G.C.C.) 3.9 *(4.1, 3.4)* 5L–E, 3L (G.C.C.) 2.8 *(3.0, 2.5)*
	API GL–4 or GL–5 SAE 75W–90	
 **liter** *(US qts, Imp. qts)*	1.6 *(1.7, 1.4)*	2.0 *(2.1, 1.87)*
	ATF DII or DEXRON®III (DEXRON®II)	**ATF Type T-IV**
 **liter** *(US qts, Imp. qts)*	——	LN166 *1, 171 1.6 *(1.7, 1.4)* Others 1.1 *(1.2, 1.1)*
	API GL–4 or GL–5 SAE 75W–90	



liter *(US qts, Imp. qts)*

	(Except Pre Runner)	(Include Pre Runner)	
	G.C.C. 2.4 *(2.5, 2.1)* Others 1.8 *(1.9, 1.6)*	w / A.D.D. 1.86 *(1.97, 1.65)* w / o.A.D.D. 1.6 *(1.7, 1.4)*	1KZ–TE 2.7 *(2.9, 2.4)* 2KD–FTV *2 2.5 *(2.6, 2.2)* 2KD–FTV *3 2.7 *(2.9, 2.4)* Others 2.4 *(2.5, 2.1)*
	Hypoid gear oil API GL–5 With LSD use LSD oil only **SAE90 (⬆ –18°C (0°F))** **SAE80W or 80W–90 (⬇ –18°C (0°F))**		

LN, KZN, KDN



mm *(in.)*

⬇ 30 *(1.18)*

	4 × 2 (Except Pre Runner)			4 × 4 (Include Pre Runner)		
	Single cab		Double cab	Extra cab	Single cab	Double cab	Extra cab
	Short	Long					
A B C	**Please refer to the Repair Manual Pub.No.RM909E (Service Specification)**						
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)* 230 *(2.3, 33)* *8, *9	450 *(4.5, 65)* 240 *(2.4, 35)* *9
195R14C – 8PR	220 *(2.2, 32)*	450 *(4.5, 65)* 220 *(2.2, 32)* *7, *9
195/80R15 103/101L LT	180 *(1.8, 26)*	375 *(3.75, 54)* 180 *(1.8, 26)* *10
195R15C 103/101R	180 *(1.8, 26)*	375 *(3.75, 54)*
205/70R15C – 8PR	200 *(2.0, 29)*	400 *(4.0, 58)* *4 200 *(2.0, 29)* *5
205R16 Reinforced	170 *(1.7, 25)*	240 *(2.4, 35)* 270 *(2.7, 39)* *8 170 *(1.7, 25)* *7, *9, *10
205R16C/6PR	170 *(1.7, 25)*	300 *(3.0, 44)* 220 *(2.2, 32)* *7
255/70R15C 112R	190 *(1.9, 28)*	240 *(2.4, 35)* 260 *(2.6, 38)* *8 190 *(1.9, 28)* *9
255/70R15 112L LT	190 *(1.9, 28)*	240 *(2.4, 34)* *6 190 *(1.9, 28)* *7
Front 6.00 – 14 – 6PRLT Rear 6.50 – 14 – 8PRLT	200 *(2.0, 29)* *4 180 *(1.8, 26)* *5	425 *(4.25, 62)* *4 240 *(2.4, 35)* *5
7.00 – 16 – 8PRLT	240 *(2.4, 35)*	425 (4.25, 62)

kPa *(kgf/cm² or bar, psi)*

© 2003 TOYOTA MOTOR CORPORATION

*1 Except LN166L–PRMDSV *2 Single-cab and Double-cab models *3 Extra-cab model and Pre Runner
*4 General (Loaded) *5 General (Unloaded) *6 Australia (Loaded) *7 Australia (Unloaded)
*8 Europe (Loaded) *9 Europe (Unloaded) *10 Chile (Unloaded)

Overseas Customer Service Technical Division: 01-030128-00