SDS TOYOTA Land Cruiser Diesel

HZJ105
HDJ100

Jan. '02

	1HZ	1HD–T	1HD–FTE
cm³ or CC *(cu. in.)*	4164 *(254.1)*		
mm *(in.)* **N** *(kgf)* ※	8–11 *(0.31–0.43)* ※196–343 *(20–35)*		
mm *(in.)* **N** *(kgf)*	16–22 *(0.63–0.87)* ※196–392 *(20–40)*		15–20 *(0.59–0.79)* ※196–392 *(20–40)*
20°C *(68°F)* Ω	0.75		——
20°C *(68°F)* **secs**	2.4		0.5
mm *(in.)*	w/ ACSD 0.65–0.71 *(0.0256–0.0280)* w/o ACSD 0.85–0.91 *(0.0335–0.0358)*	1.18–1.24 *(0.0465–0.0488)*	——
	○ × × ×	○ × × ×	○ × ○ ×
kPa *(kgf/cm², psi)*	M/T, A/T (White Indication Ring) 14220–15220 *(145–155, 2061–2203)* A/T (Brown Indication Ring) 15200–16181 *(155–165, 2205–2347)*	17157–18137 *(175–185 2488–2630)*	17162–18142 *(175–185 2489–2632)*
kPa *(kgf/cm², psi)*	M/T, A/T (White Indication Ring) 14710–15690 *(150–160, 2133–2276)* A/T (Brown Indication Ring) 15690–16671 *(160–170, 2276–2418)*	17652–18633 *(180–190 2560–2702)*	17652–18633 *(180–190 2560–2702)*
mm *(in.)*	0.15–0.25 *(0.006–0.010)*		0.17–0.23 *(0.007–0.009)*
mm *(in.)*	0.35–0.45 *(0.014–0.018)*		0.47–0.53 *(0.019–0.021)*

		1HZ	1HD–T	1HD–FTE
rpm	1 3 5 / 2 4 R	600–700		550–650
	H / C	660–760	700–800	550–650
		4500–4700	4300–4500	4200–4400
kPa *(kgf/cm², psi)*		3628 *(37.0, 526)*	3432 *(35.0, 498)*	
		⬆ 2648 *(27.0, 384)*	⬆ 2452 *(25.0, 356)*	
		⬇ 490 *(5.0, 71)*		
N·m *(kgf–cm, ft–lbf)*	**A**	① 68.6 *(700, 51)* ② 90° ③ 90°		
	B	19.6 *(200, 14)*		
	C	41.7 *(425, 31)*		
	D	63.7 *(650, 47)*	39 *(400, 29)*	25 *(255, 18)*
	E	46.6 *(475, 34)*	34 *(350, 25)*	29 *(300, 22)*
kPa *(kgf/cm², psi)*	3,000 rpm	⬆ 29 *(0.3, 4.2)*		
		250–600 *(2.5–6.1, 36–87)*		

		1HZ	1HD–T	1HD–FTE
liter *(US qts, Imp. qts)*		8.0 *(8.5, 7.0)*	10.2 *(10.8, 9.0)*	10.1 *(10.8, 8.9)*
		9.3 *(9.8, 8.2)*	11.5 *(12.1, 10.0)*	11.4 *(12.0, 10.0)*
liter *(US qts, Imp. qts)*		**API CF-4 or CF (You may also use API CE or CD)**		
	1 3 5 / 2 4 R	w/o Rear Heater 12.4 *(13.1, 10.9)* w/ Rear Heater 12.9 *(13.6, 11.4)*	w/o Rear Heater 12.5 *(13.2, 11)* w/ Rear Heater 13.0 *(13.7, 11.4)*	*1 13.2 *(14.0, 11.6)* *2 13.7 *(14.5, 12.1)* *3 14.2 *(15.0, 12.6)*
	H / C	w/o Rear Heater 12.0 *(12.7, 10.6)* w/ Rear Heater 12.5 *(13.2, 11.0)*	w/o Rear Heater 12.1 *(12.8, 10.6)* w/ Rear Heater 12.6 *(13.3, 11.1)*	*1 12.8 *(13.5, 11.3)* *2 13.3 *(14.1, 11.7)* *3 13.8 *(14.6, 12.2)*

Printed in Japan [I]

*1 Australia w/ Front Heater *2 Europe and Australia w/ Front and Rear Heater
*3 Europe w/ Front and Rear Power Heater

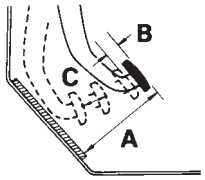
TOYOTA MOTOR CORPORATION

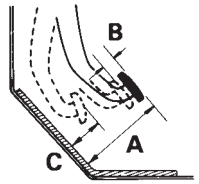
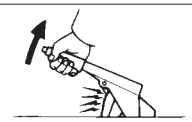
Pub. No. SDS460E

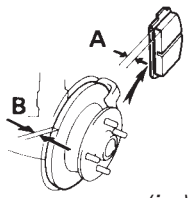
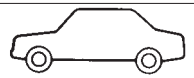
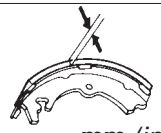
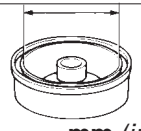
Land Cruiser Diesel

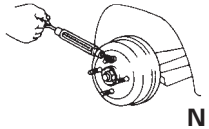
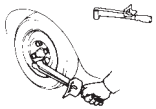
HZJ105 – *1003594~, 3003485~, 5000312~*
HDJ100 – *0022662~, 1000770~, 4006822~, 7002451~*

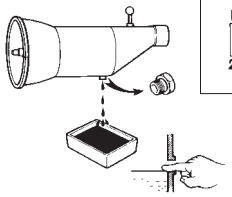
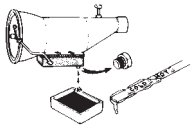
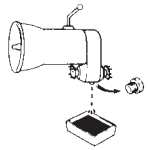
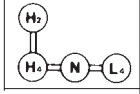
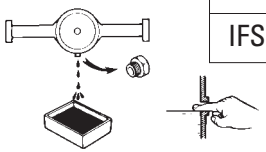
TOYOTA QUALITY SERVICE

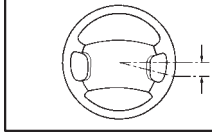
	A	196 – 206 *(7.72 – 8.11)*	197.5 – 207.5 *(7.78 – 8.17)*
	B	5 – 15 *(0.20 – 0.60)*	
	C	↑ 25 *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT3**	

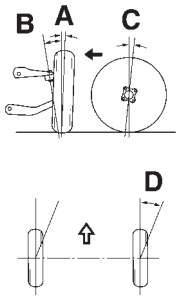
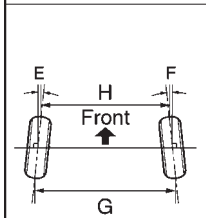
	A	190.2 – 200.2 *(7.49 – 7.88)*	183.7 – 193.7 *(7.23 – 7.63)*
	B	1 – 6 *(0.04 – 0.24)*	
	C	↑ 121 *(4.8)* (w/ ABS) ↑ 98 *(3.9)* (w/o ABS)	↑ 116 *(4.6)* (w/ ABS) ↑ 94 *(3.7)* (w/o ABS)
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT3**	
 **196 N** *(20 kgf, 44.1 lbf)*		4 – 6	

			
	A	↑ 1.0 *(0.039)*	
	B	↑ 30.0 *(1.181)*	↑ 16.0 *(0.630)*
mm *(in.)*			
		——	↑ 1.0 *(0.039)*
			↑ 1.5 *(0.059)*
mm *(in.)*			
		——	↓ 231.0 *(9.09)*
			↓ 297.0 (11.693)
mm *(in.)*			

 **N** *(kgf, lbf)*	RFS*1 26 – 52 *(2.7 – 5.3, 6.4 – 11.7)* IFS*2 42 – 67 *(4.3 – 6.8, 9.5 – 15.0)*	RFS*1 24 – 52 *(2.4 – 5.3, 6.4 – 11.7)*
 **N·m** *(kgf-cm, ft-lbf)*	Aluminium Wheel 131 *(13.4, 96.6)* Steel Wheel 209 *(21.3, 154.2)*	

		2.2 *(2.3, 1.9)*	2.7 *(2.9, 2.4)*
liter *(US qts, Imp. qts)*		**API GL–4 or GL–5 SAE 75W–90**	
		6.0 *(6.3, 5.3)*	
liter *(US qts, Imp. qts)*		**ATF DII or DEXRON®III (DEXRON®II)**	
		HF1A (Part time) 1.5 *(1.6, 1.3)* HF2A (Full time) 1.3 *(1.4, 1.1)*	
liter *(US qts, Imp. qts)*		**API GL-4 or GL-5 SAE 75W-90**	
			
	RFS*1	2.65 *(2.8, 2.3)* (w/ Differential Lock) 2.8 *(3.0, 2.5)* (w/o Differential Lock)	3.2 *(3.4, 2.8)* (w/ Differential Lock) 3.3 *(3.5, 2.9)* (w/o Differential Lock)
	IFS*2	1.6 *(1.7, 1.4)*	
		Hypoid gear oil API GL–5 With LSD use LSD oil only **SAE 90** (↑ –18°C (0°F)) **SAE 80W or 80W–90** (↓ –18°C (0°F))	
liter *(US qts, Imp. qts)*			

	HZJ	HDJ
mm *(in.)*	↓ 40 *(1.6)*	

		RFS*1	IFS*2 w/o AHC*3	IFS*2 w/ AHC*3
	A	1°±45′ *(1°±0.75°)*	0°05′±45′ *(0.08°±0.75°)*	0°00′±45′ *(0°±0.75°)*
	B	13°±45′ *(13°±0.75°)*	12°10′±45′ *(12.17°0.75°)*	12°15′±45′ *(12.25°±0.75°)*
	C	Australia 1°40±45′ *(1.67°±0.75°)* G.C.C. 2°30±45′ *(2.5°±0.75°)* Others 2°10±45′ *(2.17°±0.75°)*	Europe and Australia 2°10±45′ *(2.17°±0.75°)* Others 2°25±45′ *(2.42°±0.75°)*	3°05′±45′ *(3.08°±0.75°)*
	D	35°+0° −3°	37°+0° −3°	
	E+F	0°12′±12′ *(0.2°±0.2°)*	0°06′±12′ *(0.1°±0.2°)*	0°00′±12′ *(0.0°±0.2°)*
	G–H mm *(in.)*	2±2 *(0.08±0.08)*	1±2 *(0.04±0.08)*	0±2 *(0±0.08)*

Europe kpa *(kgf/cm², psi)*	275/70R16 114H	200 *(2.0, 29)*	220 *(2.2, 32)*
Australia kPa *(kgf/cm², psi)*	LT235/85R16 108/104S	260 *(2.6, 38)*	375 *(3.8, 54)*
	275/70R16 114T	200 *(2.0, 29)*	220 *(2.2, 32)*
	7.50R16C 108/106Q 6PR RGF	240 *(2.4, 35)* 280※ *(2.9, 42)*	320 *(3.3, 48)* 370※ *(3.8, 54)*
Others kPa *(kgf/cm², psi)*	LT235/85R16 108/104S	260 *(2.6, 38)*	375 *(3.8, 54)*
	7.50R 16 – 6PRLT		
	275/70R 16 114T ↑ 180 *(112)*	220 *(2.2, 32)*	220 *(2.2, 32)*
	275/70R 16 114T ↓ 180 *(112)*	200 *(2.0, 29)*	

*1 RFS: Rigid Front Suspention
*2 IFS: Independent Front Suspention
*3 AHC: Active Height Control
※ Standard inflation for all loads including rated loads

Overseas Service Division: 01-020128-00