A	118.1 to 128.1 (4.650 to 5.043)	1KR-FE/2NZ-FE 144.4 to 154.4 (5.685 to 6.079)	
		1NZ-FE 159.2 to 169.2 (6.268 to 6.661)	
B	Pedal Free Play 5 to 15 (0.197 to 0.591)		
	Push Rod Play 1 to 5 (0.039 to 0.197)		
C	⬆25 (0.98)		
mm (in.)	SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4		
A	107.3 to 117.3 (4.224 to 4.618)		
B	1 to 6 (0.039 to 0.236)		
*1 C w/o VSC Rear Dram	⬆73 (2.87)	⬆71 (2.80)	
*1 C w/o VSC Rear Disc	⬆80 (3.15)		
*1 C w/ VSC	⬆85 (3.35)	⬆75 (2.95)	
mm (in.)	SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4		
196N (20 kgf, 44 lbf) Rear Dram	6 to 9		
196N (20 kgf, 44 lbf) Rear Disc	4 to 7		
A	⬆1.0 (0.039)		
B	⬆19.0 (0.748)	⬆7.5 (0.295)	
mm (in.)	-	⬆1.0 (0.039)	
mm (in.)	-	⬇201 (7.913)	
	KSP	NCP	
1 3 5 2 4 R	1.75 (1.8, 1.5)	1.9 (2.0, 1.7)	
A liter (US qts, Imp.qts)	API GL-4 SAE 75W		
B liter (US qts, Imp.qts)	-	1NZ-FE 2.5 (2.6, 2.2)	
		2NZ-FE 2.0 (2.1, 1.7)	
	-	1NZ-FE "Toyota Genuine ATF TYPE WS" or equivalent	
		2NZ-FE "Toyota Genuine ATF TYPE T-IV" or equivalent	
A N·m (kgf-cm, ft-lbf)	39 (400, 29)		
B N·m (kgf-cm, ft-lbf)	-	49 (500, 36)	

				KSP, NCP	
N·m (kgf-cm, ft-lbf)				103 (1050, 76)	
				KSP, NCP	
mm (in.)				⬇30 (1.18)	
A	Europe G.C.C. Countries General			-0°08' ± 45' (-0.13° ± 0.75°)	-0°56' ± 45' (-0.93° ± 0.75°)
	Europe, General (Rough Road Package)			0°08' ± 45' (0.13° ± 0.75°)	-0°54' ± 45' (-0.90° ± 0.75°)
	Australia			-0°10' ± 45' (-0.17° ± 0.75°)	-0°56' ± 45' (-0.93° ± 0.75°)
B	Europe G.C.C. Countries General			11°14' (11.23°)	-
	Europe, General (Rough Road Package)			10°44' (10.73°)	-
	Australia			11°18' (11.30°)	-
C	Europe G.C.C. Countries General			4°44'±45' (4.73°±0.75°)	-
	Europe, General (Rough Road Package)			4°25'±45' (4.42°±0.75°)	-
	Australia			4°32'±45' (4.53°±0.75°)	-
D	Europe General G.C.C. Countries	165/70R14		45°23' ± 2° (45.38° ± 2°)	-
		175/65R14 185/60R15		41°00' ± 2° (41.00° ± 2°)	-
	Europe, General (Rough Road Package)	175/65R14 185/60R15		41°23' ± 2° (41.38° ± 2°)	-
	Australia	175/65R14 185/60R15		40°57' ± 2° (40.95°±2°)	-
E+F	Europe General G.C.C. Countries	165/70R14 185/60R15		0°09' ± 0°13' (0.15° ± 0.22°)	0°17' ± 0°20' (0.28° ± 0.33°)
		175/65R14			0°17' ± 0°20' (0.28° ± 0.33°)
	Europe, General (Rough Road Package)	175/65R14 185/60R15			0°13' ± 0°20' (0.22° ± 0.33°)
	Australia	175/65R14			0°15' ± 0°20' (0.25° ± 0.33°)
		185/60R15			0°15' ± 0°20' (0.25° ± 0.33°)
G-H mm (in.)	Europe General G.C.C. Countries	165/70R14 185/60R15		1.5 ± 2.0 (0.06 ± 0.08)	2.9 ± 3.0 (0.11 ± 0.12)
		175/65R14			2.8 ± 3.0 (0.11 ± 0.12)
	Europe, General (Rough Road Package)	175/65R14 185/60R15			2.2 ± 3.0 (0.09 ± 0.12)
	Australia	175/65R14			2.6 ± 3.0 (0.10 ± 0.12)
		185/60R15			2.7 ± 3.0 (0.11 ± 0.12)
		140 km/h = 87 mph 160 km/h = 100 mph			
kPa (kgf/cm² or psi)	Europe	165/70R14 81S	⬇160	220 (2.2, 32)	220 (2.2, 32)
			⬆160	230 (2.3, 33)	230 (2.3, 33)
		185/60R15 84H	⬇160	240 (2.4, 35)	220 (2.2, 32)
			⬆160	250 (2.5, 36)	230 (2.3, 33)
	Europe (Rough Road Package)	175/65R14 82T 185/60R15 84H	⬆160	220 (2.2, 32)	220 (2.2, 32)
			⬆160	230 (2.3, 33)	230 (2.3, 33)
	General	175/65R14 82T 185/60R15 84H	⬇160	220 (2.2, 32)	220 (2.2, 32)
			⬆160	230 (2.3, 33)	230 (2.3, 33)
	Australia	175/65R14 82T 185/60R15 84H	⬇140	220 (2.2, 32)	220 (2.2, 32)
			⬆140	260 (2.7, 38)	260 (2.7, 38)
	G.C.C. Countries	175/65R14 82T 185/60R15 84H	⬇160	220 (2.2, 32)	220 (2.2, 32)
			⬆160	230 (2.3, 33)	230 (2.3, 33)

*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

YARIS (TMC Made Hatchback) KSP90, NCP90, 91

TOYOTA QUALITY SERVICE

		KSP, NCP		
20°C (68°F)		1.25 to 1.29		
		1KR-FE	2NZ-FE	1NZ-FE
cm³ or cc (cu. in.)		998 (60.9)	1299 (79.3)	1496 (91.3)
mm (in.) N (kgf)		9 to 11 (0.35 to 0.43)	11 to 13 (0.43 to 0.51) ※245 to 392 (25 to 40)	
	DENSO	K20HR-U11	K16R-U 11	K16R-U
	NGK	-	BKR5EYA 11	BKR5EYA
A	A mm (in.)	1.0 to 1.1 (0.039 to 0.043)		0.7 to 0.8 (0.028 to 0.031)
BTDC		8 to 12°		
		(DLC3 Terminals 13 (TC) - 4 (CG) Connected)		
mm (in.)		0.145 to 0.235 (0.00571 to 0.00925)	0.15 to 0.25 (0.006 to 0.010)	
		0.275 to 0.365 (0.01083 to 0.01437)	0.25 to 0.35 (0.010 to 0.014)	
DLC3 Terminal 9 (TAC) Connected	1 3 5 / 2 4 R	730 to 830	600 to 700	
rpm	P R N D 2 L	-	650 to 750	

		1KR-FE	2NZ-FE	1NZ-FE
kPa (kgf/cm², psi)		1422 (14.5, 206)	1471 (15, 213)	
		↑1079 (11.0, 156)	↑1079 (11.0, 156)	
		↓147 (1.5, 21)	↓98 (1.0, 14)	
kPa (kgf/cm², psi)		↑30 (0.3, 4.3)	↑29 (0.3, 4.3)	
	3000 rpm	↑200 (2.0, 28.4)	150 to 550 (1.5 to 5.6, 22 to 80)	

		1KR-FE	2NZ-FE	1NZ-FE
liter (USqts, Imp.qts)		2.9 (3.1, 2.6)	3.4 (3.6, 3.1)	
		3.1 (3.3, 2.7)	3.7 (3.9, 3.4)	
		20W-50 and 15W-40 API grade SL or SM multigrade engine oil 10W-30 and 5W-30 API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC* multigrade engine oil		
N·m (kgf-cm, ft-lbf)	A	30 (306, 22)	37.5 (382, 27.6)	
liter (US qts, Imp.qts)	1 3 5 / 2 4 R	4.5 (4.8, 4.2)	Except G.C.C. 4.9 (5.2, 4.6) G.C.C. 5.1 (5.4, 4.7)	4.8 (5.1, 4.5)
	P R N D 2 L	-	Except G.C.C. 4.8 (5.1, 4.5) G.C.C. 5.0 (5.3, 4.6)	4.7 (5.0, 4.4)

* ILSAC: International Lubricant Standardization and Approval Committee

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mm *(in.)*	A	**122.4 to 132.4** *(4.819 to 5.213)*	**149.4 to 159.2** *(5.874 to 6.268)*
	B	Pedal Free Play **8 to 15** *(0.315 to 0.591)*	Pedal Free Play **7 to 14** *(0.276 to 0.551)*
		Push Rod Play **1.2 to 7.8** *(0.047 to 0.307)*	Push Rod Play **0.2 to 6.8** *(0.008 to 0.268)*
	C	⬆**25** *(0.98)*	
		SAE J1703 or FMVSS No. 116 DOT3 **SAE J1704 or FMVSS No. 116 DOT4**	

mm *(in.)*	A		**107.3 to 117.3** *(4.224 to 4.618)*	
	B		**1 to 6** *(0.039 to 0.236)*	
	*1 C	w/o VSC	Rear Dram	⬆**75** *(2.95)* / ⬆**72** *(2.83)*
			Rear Disc	⬆**75** *(2.95)*
		w/ VSC		⬆**75** *(2.95)*
				SAE J1704 or FMVSS No. 116 DOT4
196N *(20 kgf, 44 lbf)*		Rear Dram		**5 to 8**
		Rear Disc		**4 to 7**
mm *(in.)*	A		⬆**1.5** *(0.059)*	⬆**2.0** *(0.079)*
	B		⬆**20.0** *(0.787)*	⬆**7.0** *(0.276)*
mm *(in.)*			-	⬆**1.0** *(0.039)*
mm *(in.)*			-	⬇**204** *(8.032)*

			KSP	**SCP**
liter *(US qts, Imp.qts)*	1 3 5 / 2 4 R	MT	**1.75** *(1.8, 1.5)*	**1.75** *(1.8, 1.5)*
		MMT	**1.7** *(1.8, 1.5)*	**1.7** *(1.8, 1.5)*
			API GL-4 SAE 75W	
N·m *(kgf-cm, ft-lbf)*	A		**39** *(400, 29)*	

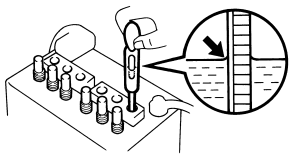
			KSP, SCP
N·m *(kgf-cm, ft-lbf)*			**103** *(1050, 76)*
			KSP, SCP
mm *(in.)*			⬇**30** *(1.18)*
			Except Rough Road Package
	A		**-0°09' ± 45'** *(-0.15° ± 0.75°)* / **-0°56' ± 45'** *(-0.93° ± 0.75°)*
	B		**11°15'** *(11.25°)* / -
	C		**4°44'±45'** *(4.73° ±0.75°)* / -
	D	1KR-FE 165/70R14	**45°23' ± 2°** *(45.38° ± 2°)* / -
		1KR-FE 185/60R15	**41°00' ± 2°** *(41.00° ± 2°)* / -
		2SZ-FE	**41°00' ± 2°** *(41.00° ± 2°)* / -
	E+F		**0°09' ± 0°13'** *(0.15° ± 0.22°)* / **0°17' ± 0°20'** *(0.28° ± 0.33°)*
	G-H mm *(in.)*		**1.5 ± 2.0** *(0.06 ± 0.08)* / **2.9 ± 3.0** *(0.11 ± 0.12)*
			Rough Road Package
	A		**0°06' ± 45'** *(0.10° ± 0.75°)* / **-0°54' ± 45'** *(-0.90° ± 0.75°)*
	B		**10°45** *(10.75°)* / -
	C	175/65R14	**4°26'±45'** *(4.43° ±0.75°)* / -
		185/60R15	**4°25'±45'** *(4.42° ±0.75°)* / -
	D	175/65R14	**41°24' ± 2°** *(41.40° ± 2°)* / -
		185/60R15	**41°25' ± 2°** *(41.42° ± 2°)* / -
	E+F		**0°09' ± 0°13'** *(0.15° ± 0.22°)* / **0°13' ± 0°20'** *(0.22° ± 0.33°)*
	G-H mm *(in.)*		**1.5 ± 2.0** *(0.06 ± 0.08)* / **2.2 ± 3.0** *(0.09 ± 0.12)*
			Except Rough Road Package

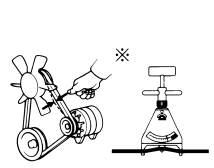
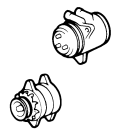
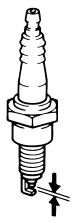
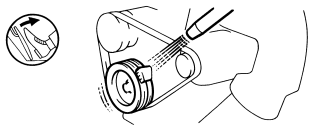
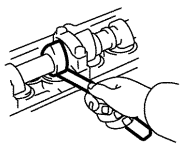
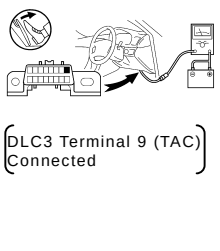
			160 km/h = 100 mph		
kPa *(kgf/cm²* *or psi)*	1KR-FE	165/70R14 81S	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
		185/60R15 84H	⬇160	**240** *(2.4, 35)*	**220** *(2.2, 32)*
			⬆160	**250** *(2.5, 36)*	**230** *(2.3, 33)*
	2SZ-FE	185/60R15 84H	⬆160	**230** *(2.3, 33)*	**220** *(2.2, 32)*
			⬆160	**250** *(2.5, 36)*	**240** *(2.4, 35)*
				Rough Road Package	
	1KR-FE	175/65R14 82T / 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
	2SZ-FE	185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**240** *(2.4, 35)*	**240** *(2.4, 35)*

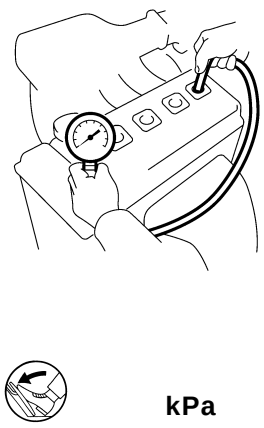
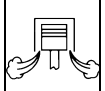
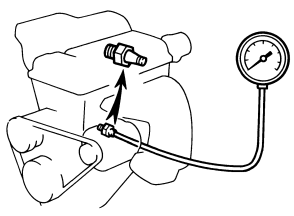
*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

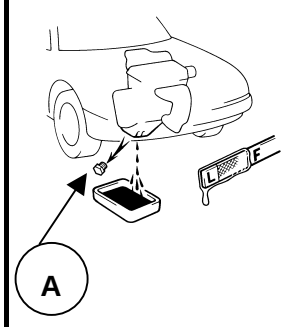
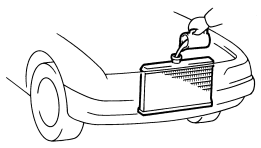
YARIS (TMMF Made) KSP90, SCP90

TOYOTA QUALITY SERVICE

	KSP, SCP
 **20°C** *(68°F)*	**1.25 to 1.29**

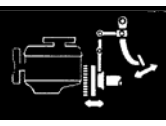
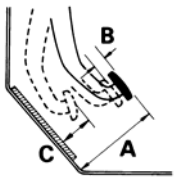
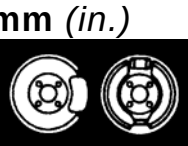
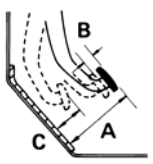
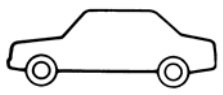
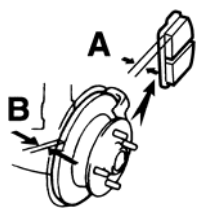
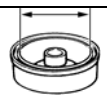
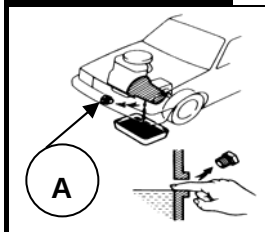
		1KR-FE	2SZ-FE
cm³ or cc *(cu. in.)*		**998** *(60.9)*	**1298** *(79.2)*
 **mm** *(in.)* **N** *(kgf)*		**9 to 11** *(0.35 to 0.43)*	**9.0 to 9.5** *(0.35 to 0.37)* **※539 to 637** *(55 to 65)*
		**9 to 11** *(0.35 to 0.43)*	**6.0 to 6.5** *(0.24 to 0.26)* **※539 to 637** *(55 to 65)*
	**DENSO**	K20HR-U11	K16R-U
	A **mm** *(in.)*	**1.0 to 1.1** *(0.039 to 0.043)*	**0.7 to 0.8** *(0.028 to 0.031)*
 **BTDC**		**8 to 12°**	
		(DLC3 Terminals 13 (TC) - 4 (CG) Connected)	
 **mm** *(in.)*		**0.145 to 0.235** *(0.00571 to 0.00925)*	**0.15 to 0.24** *(0.006 to 0.009)*
		**0.275 to 0.365** *(0.01083 to 0.01437)*	**0.22 to 0.31** *(0.009 to 0.012)*
 **rpm**	1 3 5 / 2 4 R	**730 to 830**	MT **550 to 650**
			MMT **550 to 650**

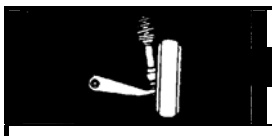
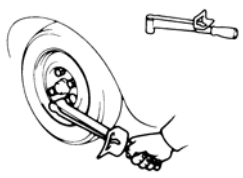
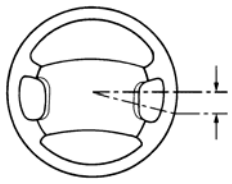
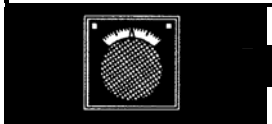
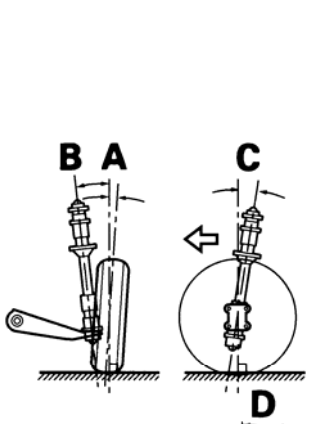
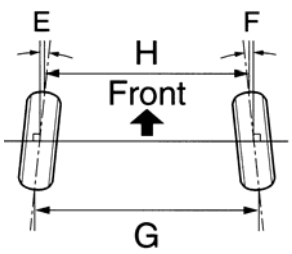
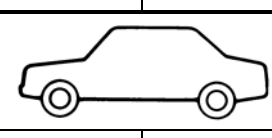
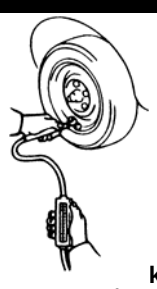
		1KR-FE	2SZ-FE
 **kPa** *(kgf/cm², psi)*		**1422** *(14.5, 206)*	**1176** *(12, 171)*
		⬆**1079** *(11.0, 156)*	⬆**931** *(9.5, 134)*
		⬇**147** *(1.5, 21)*	⬇**98** *(1.0, 14)*
 **kPa** *(kgf/cm², psi)*		⬆**30** *(0.3, 4.3)*	**1000 rpm** ⬆**130** *(1.3, 18.5)*
	3000 rpm 	⬆**200** *(2.0, 28.4)*	**4000rpm** ⬆**350** *(3.5, 49.8)*

		1KR-FE	2SZ-FE
 **liter** *(USqts,Imp.qts)*		**2.9** *(3.1, 2.6)*	**2.9** *(3.1, 2.6)*
		**3.1** *(3.3, 2.7)*	**3.2** *(3.3, 2.7)*
		20W-50 and 15W-40 API grade SL or SM multigrade engine oil 10W-30 and 5W-30 API grade SL “Energy-Conserving”, SM “Energy-Conserving” or ILSAC* multigrade engine oil	
N·m *(kgf-cm, ft-lbf)*	**A**	**30** *(306, 22)*	**30** *(306, 22)*
 **liter** *(US qts, Imp.qts)*	1 3 5 / 2 4 R	**4.5** *(4.8, 4.2)*	**5.1** *(5.4, 4.5)*

* ILSAC: International Lubricant Standardization and Approval Committee

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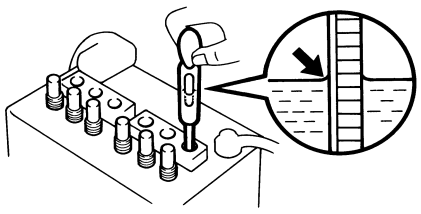
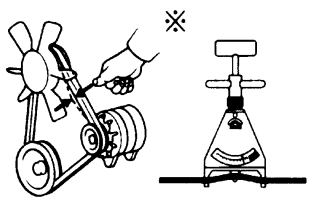
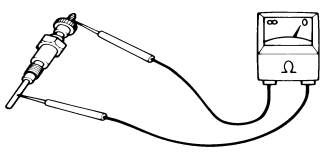
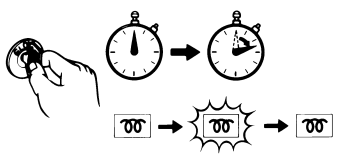
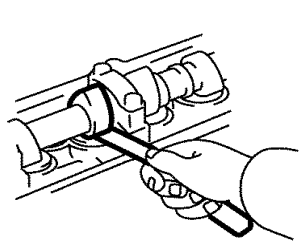
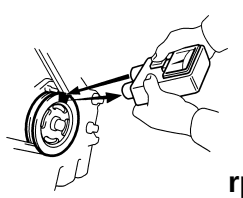
			
	**A**	**122.4 to 132.4** *(4.819 to 5.213)*	**149.4 to 159.2** *(5.874 to 6.268)*
	B	Pedal Free Play **8 to 15** *(0.315 to 0.591)* Push Rod Play **1.2 to 7.8** *(0.047 to 0.307)*	Pedal Free Play **7 to 14** *(0.276 to 0.551)* Push Rod Play **0.2 to 6.8** *(0.008 to 0.268)*
	C	⬆**25** *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4**	
			
	**A**	**107.3 to 117.3** *(4.224 to 4.618)*	
	B	**1 to 6** *(0.039 to 0.236)*	
	*1 **C** — **w/o VSC** — **Rear Dram**	⬆**75** *(2.95)*	⬆**72** *(2.83)*
	*1 **C** — **w/o VSC** — **Rear Disc**	⬆**75** *(2.95)*	
	*1 **C** — **w/ VSC**	⬆**75** *(2.95)*	
mm *(in.)*		**SAE J1704 or FMVSS No. 116 DOT4**	
 **196N** *(20 kgf, 44 lbf)*	**Rear Dram**	**5 to 8**	
	Rear Disc	**4 to 7**	
mm *(in.)*			
	**A**	⬆**1.5** *(0.059)*	⬆**2.0** *(0.079)*
	B	⬆**20.0** *(0.787)*	⬆**7.0** *(0.276)*
mm *(in.)* 		-	⬆**1.0** *(0.039)*
mm *(in.)* 		-	⬇**204** *(8.032)*
		**NLP**	
 **A**	1 3 5 / 2 4 R	MT **1.75** *(1.8, 1.5)* MMT **1.7** *(1.8, 1.5)*	
liter *(US qts, Imp.qts)*		**API GL-4 SAE 75W**	
N·m *(kgf-cm, ft-lbf)*	**A**	**39** *(400, 29)*	

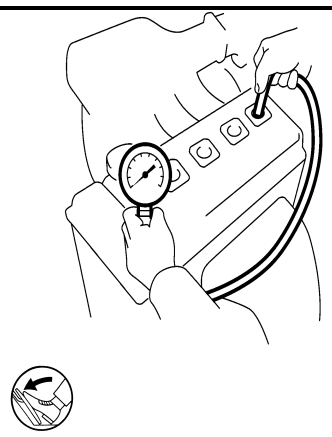
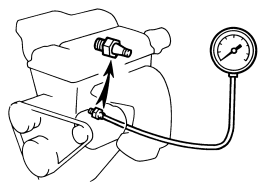
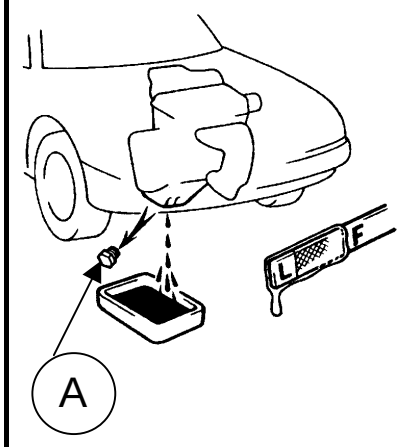
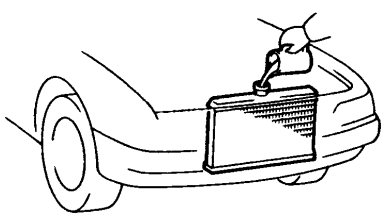
			**NLP**
	**N·m** *(kgf-cm, ft-lbf)*		**103** *(1050, 76)*
			**NLP**
	**mm** *(in.)*		⬇**30** *(1.18)*
			
	**A**	**-0°10' ± 45'** *(-0.17° ± 0.75°)*	**-0°56' ± 45'** *(-0.93° ± 0.75°)*
	B	**11°16'** *(11.27°)*	-
	C	**4°40' ± 45'** *(4.67° ±0.75°)*	-
	D	**40°58' ± 2°** *(40.97° ± 2°)*	-
	**E+F**	**0°09' ± 0°13'** *(0.15° ± 0.22°)*	**0°17' ± 0°20'** *(0.28° ± 0.33°)*
	G-H mm *(in.)*	**1.5 ± 2.0** *(0.06 ± 0.08)*	**2.9 ± 3.0** *(0.11 ± 0.12)*
	160 km/h = 100 mph		
 **kPa** *(kgf/cm² or psi)*	⬇160 km/h	**240** *(2.4, 35)*	**220** *(2.2, 32)*
	⬆160 km/h	**260** *(2.7, 38)*	**240** *(2.4, 35)*

*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

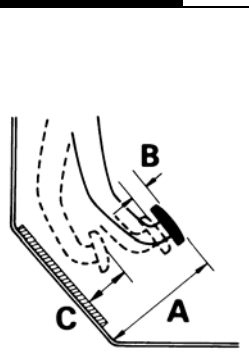
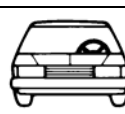
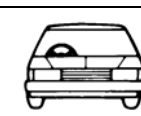
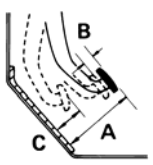
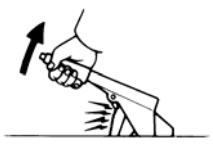
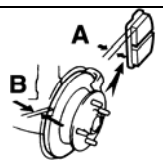
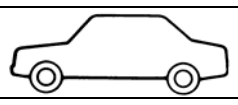
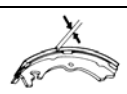
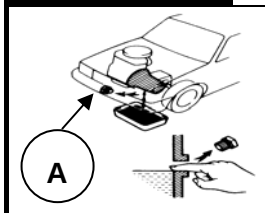
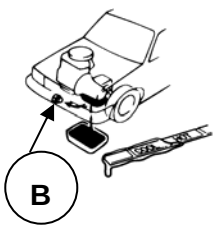
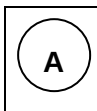
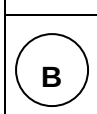
YARIS Diesel NLP90

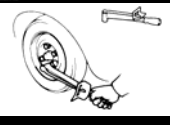
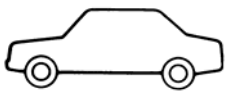
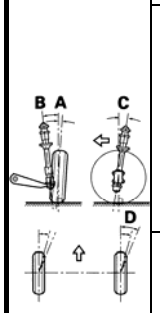
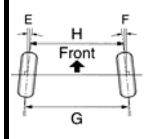
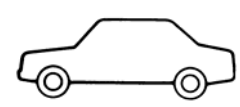
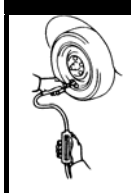
TOYOTA QUALITY SERVICE

	NLP
 **20°C** *(68°F)*	**1.25 to 1.29**
	1ND-TV
cm³ or cc *(cu. in.)*	**1364** *(83.2)*
 ※ **mm** *(in.)* **N** *(kgf)*	**7.0 to 8.5** *(0.276 to 0.335)* ※490 to 686 *(50 to 70)*
20°C *(68°F)*  Ω	**0.6**
40°C *(104°F)*  **sec.**	**1**
 **mm** *(in.)*	**0.11 to 0.17** *(0.004 to 0.007)* (H-C)
	0.14 to 0.20 *(0.006 to 0.008)*
 **rpm**	**720 to 820** (H-C)
	5100 to 5250

 **kPa** *(kgf/cm², psi)*		**2700** *(27.5, 391)*
		⬆ **2200** *(22.5, 320)*
		⬇ **500** *(5.0, 71)*
 **kPa** *(kgf/cm², psi)*	**770 rpm**	**29** *(0.3, 4.3)*
	4000 rpm (H-C)	**150 to 550** *(1.5 to 5.6, 22 to 80)*
		1ND-TV
 **liter** *(US qts, lmp. qts)*		**3.8** *(4.0, 3.3)*
		4.3 *(4.5, 3.8)*
		Use ACEA B1, API grade DF-4, CF or G-DLD-1
N·m *(kgf-cm, ft-lbf)*	(A)	**38** *(387, 28)*
 **liter** *(US qts, lmp. qts)*	1 3 5 / 2 4 R	**4.7** *(5.0, 4.1)*

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	A	**2NZ-FE** **118.1 to 128.1** *(4.650 to 5.043)*	**2NZ-FE** **144.4 to 154.4** *(5.685 to 6.079)*
		1NZ-FE **133.0 to 143.0** *(5.236 to 5.630)*	**1NZ-FE** **159.2 to 169.2** *(6.268 to 6.661)*
	B	Pedal Free Play **5 to 15** *(0.197 to 0.591)*	
		Push Rod Play **1 to 5** *(0.039 to 0.197)*	
	C	⬆**25** *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
			
	A	**107.3 to 117.3** *(4.224 to 4.618)*	
	B	**1 to 6** *(0.039 to 0.236)*	
	*1 C w/ ABS	⬆**73** *(2.87)*	⬆**71** *(2.80)*
	*1 C w/o ABS	⬆**70** *(2.75)*	-
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
200N *(20 kgf, 45 lbf)*		**6 to 9**	
			
mm *(in.)*	A	⬆**1.0** *(0.039)*	
	B	⬆**19.0** *(0.748)*	-
mm *(in.)*		-	⬆**1.0** *(0.039)*
mm *(in.)*		-	⬇**201** *(7.913)*
		NCP	
		2NZ-FE	**1NZ-FE**
		**1.9** *(2.0, 1.7)*	
A **liter** *(US qts, Imp.qts)*		**API GL-4 SAE 75W**	
		**2.0** *(2.1, 1.7)*	**2.5** *(2.6, 2.2)*
B **liter** *(US qts, Imp.qts)*		**"Toyota Genuine ATF TYPE T-IV" or equivalent**	**"Toyota Genuine ATF TYPE WS" or equivalent**
N·m *(kgf-cm, ft-lbf)*	 A	**39** *(400, 29)*	
	 B	**49** *(500, 36)*	

				NCP	
		**N·m** *(kgf-cm, ft-lbf)*		**103** *(1050, 76)*	
				NCP	
		mm *(in.)*		⬇**30** *(1.18)*	
					
	A	G.C.C. Countries General		**-0°08' ± 45'** *(-0.13° ± 0.75°)*	**-0°56' ± 45'** *(-0.93° ± 0.75°)*
		General (Rough Road Package)		**0°08' ± 45'** *(0.13° ± 0.75°)*	**-0°54' ± 45'** *(-0.90° ± 0.75°)*
		Australia		**-0°09' ± 45'** *(-0.15° ± 0.75°)*	**-0°55' ± 45'** *(-0.92° ± 0.75°)*
	B	G.C.C. Countries General		**11°14'** *(11.23°)*	-
		General (Rough Road Package)		**10°44'** *(10.73°)*	-
		Australia		**11°15'** *(11.25°)*	-
	C	G.C.C. Countries General		**4°37'±45'** *(4.62°±0.75°)*	-
		General (Rough Road Package)		**4°21'±45'** *(4.35°±0.75°)*	-
		Australia		**4°28'±45'** *(4.47°±0.75°)*	-
	D	General G.C.C. Countries		**41°00' ± 2°** *(41.00° ± 2°)*	-
		General (Rough Road Package)		**41°23' ± 2°** *(41.38° ± 2°)*	-
		Australia		**40°59' ± 2°** *(40.98°±2°)*	-
	E+F	General G.C.C. Countries		**0°09' ± 0°13'** *(0.15° ± 0.22°)*	**0°16' ± 0°20'** *(0.27° ± 0.33°)*
		General (Rough Road Package)			**0°12' ± 0°20'** *(0.20° ± 0.33°)*
		Australia			**0°15' ± 0°20'** *(0.25° ± 0.33°)*
	G-H mm *(in.)*	General G.C.C. Countries	175/65R14	**1.5 ± 2.0** *(0.06 ± 0.08)*	**2.7 ± 3.0** *(0.11 ± 0.12)*
			185/60R15		**2.8 ± 3.0** *(0.11 ± 0.12)*
		General (Rough Road Package)	175/65R14		**2.0 ± 3.0** *(0.08 ± 0.12)*
			185/60R15		**2.1 ± 3.0** *(0.08 ± 0.12)*
		Australia	175/65R14		**2.5 ± 3.0** *(0.10 ± 0.12)*
			185/60R15		**2.6 ± 3.0** *(0.10 ± 0.12)*
			140 km/h = 87 mph 160 km/h = 100 mph		
 **kPa** *(kgf/cm² or psi)*	General	175/65R14 82T 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
	Australia	175/65R14 82T 185/60R15 84H	⬇140	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆140	**260** *(2.7, 38)*	**260** *(2.7, 38)*
	G.C.C. Countries	175/65R14 82T 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*

*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

YARIS (Sedan) NCP 92, 93

TOYOTA QUALITY SERVICE

		NCP	
20°C (68°F)		1.25 to 1.29	
		2NZ-FE	1NZ-FE
cm³ or cc (cu. in.)		1299 (79.3)	1496 (91.3)
mm (in.) N (kgf)		11 to 13 (0.43 to 0.51) ※245 to 392 (25 to 40)	
	DENSO	K16R-U 11	K16R-U
	NGK	BKR5EYA 11	BKR5EYA
A	A mm (in.)	1.0 to 1.1 (0.039 to 0.043)	0.7 to 0.8 (0.028 to 0.031)
BTDC		8 to 12°	
		(DLC3 Terminals 13 (TC) - 4 (CG) Connected)	
mm (in.)		0.15 to 0.25 (0.006 to 0.010)	
		0.25 to 0.35 (0.010 to 0.014)	
DLC3 Terminal 9 (TAC) Connected	1 3 5 / 2 4 R	600 to 700	
rpm	P N D 2 L	650 to 750	

		2NZ-FE	1NZ-FE
kPa (kgf/cm², psi)		1471 (15, 213)	
		⬆1079 (11.0, 156)	
		⬇98 (1.0, 14)	
		⬆29 (0.3, 4.3)	
	3000 rpm	150 to 550 (1.5 to 5.6, 22 to 80)	
		2NZ-FE	1NZ-FE
liter (USqts, Imp.qts)		3.4 (3.6, 3.1)	
		3.7 (3.9, 3.4)	
		20W-50 and 15W-40 API grade SL or SM multigrade engine oil 10W-30 and 5W-30 API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC* multigrade engine oil	
N·m (kgf-cm, ft-lbf)	A	38 (382, 28)	
liter (US qts, Imp.qts)	1 3 5 / 2 4 R	w/o Fan Shroud Ventilation Duct: 4.9 (5.2, 4.6) w/ Fan Shroud Ventilation Duct: 5.1 (5.4, 4.7)	4.8 (5.1, 4.5)
	P N D 2 L	w/o Fan Shroud Ventilation Duct: 4.8 (5.1, 4.5) w/ Fan Shroud Ventilation Duct: 5.0 (5.3, 4.6)	4.7 (5.0, 4.4)

* ILSAC: International Lubricant Standardization and Approval Committee

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mm *(in.)*	A	1KR-FE/2NZ-FE **118.1 to 128.1** *(4.650 to 5.043)*	1KR-FE/2NZ-FE **144.4 to 154.4** *(5.685 to 6.079)*
		2ZR-FE **133 to 143** *(5.236 to 5.630)*	1NZ-FE/2ZR-FE **159.2 to 169.2** *(6.268 to 6.661)*
	B	Pedal Free Play **5 to 15** *(0.197 to 0.591)*	
		Push Rod Play **1 to 5** *(0.039 to 0.197)*	
	C	⬆**25** *(0.98)*	
		SAE J1703 or FMVSS No. 116 DOT3 **SAE J1704 or FMVSS No. 116 DOT4**	

mm *(in.)*	A	w/ ABS w/ VSC	**107.3 to 117.3**(4.224 to 4.618)	
		w/o ABS	**107.8 to 117.8**(4.244 to 4.638)	
	B		**1 to 6** *(0.039 to 0.236)*	
	*1 C	w/ ABS — Rear Dram	⬆**73** *(2.87)*	⬆**71** *(2.80)*
		w/ ABS — Rear Disc	⬆**80** *(3.15)*	
		w/ VSC	⬆**85** *(3.35)*	⬆**75** *(2.95)*
		w/o ABS	⬆**70** *(2.75)*	-
mm *(in.)*			**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
200N *(20 kgf, 45 lbf)*		Rear Dram	**6 to 9**	
		Rear Disc	**4 to 7**	

mm *(in.)*	A	⬆**1.0** *(0.039)*	
	B	⬆**19.0** *(0.748)*	⬆**19.0** *(0.748)*
mm *(in.)*		-	⬆**1.0** *(0.039)*
mm *(in.)*		-	⬇**201** *(7.913)*

		KSP	NCP	ZSP
liter *(US qts, Imp.qts)*	1 3 5 / 2 4 R	**1.75** *(1.8, 1.5)*	**1.9** *(2.0, 1.7)*	**1.9** *(2.0, 1.7)*
	A	**API GL-4 SAE 75W**		**API GL-4 or GL-5 SAE 75W**
liter *(US qts, Imp.qts)*	P R N D 2 L	-	**1NZ-FE** **2.5** *(2.6, 2.2)* **2NZ-FE** **2.0** *(2.1, 1.7)*	-
		-	**1NZ-FE** "Toyota Genuine ATF TYPE WS " or equivalent **2NZ-FE** "Toyota Genuine ATF TYPE T-IV" or equivalent	-
N·m *(kgf-cm, ft-lbf)*	A	**39** *(400, 29)*		
	B	-	**49** *(500, 36)*	-

			KSP, NCP, ZSP
	N·m *(kgf-cm, ft-lbf)*		**103** *(1050, 76)*
			KSP, NCP, ZSP
	mm *(in.)*		⬇**30** *(1.18)*
	A	**Please refer to the Service Specification**	
	B		
	C		
	D		
	E+F		
	G-H **mm** *(in.)*		

			140 km/h = 87 mph 160 km/h = 100 mph		
kPa *(kgf/cm²* *or psi)*	Europe	165/70R14 81S	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
		185/60R15 84H	⬇160	**240** *(2.4, 35)*	**220** *(2.2, 32)*
			⬆160	**250** *(2.5, 36)*	**230** *(2.3, 33)*
		205/45R17 84W	⬇190	**200** *(2.0, 29)*	**190** *(1.9, 28)*
			⬆190	**220** *(2.2, 32)*	**210** *(2.1, 30)*
	Europe (Rough Road Package)	175/65R14 82T 185/60R15 84H	⬆160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
	General	175/65R14 82T 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
	Australia	175/65R14 82T 185/60R15 84H	⬇140	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆140	**260** *(2.7, 38)*	**260** *(2.7, 38)*
	G.C.C. Countries	175/65R14 82T 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*

*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

YARIS (TMC Made Hatchback) KSP90, NCP90, 91, ZSP90

TOYOTA QUALITY SERVICE

		KSP, NCP, ZSP			
20°C (68°F)		1.25 to 1.29			
		1KR-FE	2NZ-FE	1NZ-FE	2ZR-FE
cm³ or cc (cu. in.)		998 (60.9)	1299 (79.3)	1496 (91.3)	1798 (109.7)
mm (in.) N (kgf)		9 to 11 (0.35 to 0.43)	11 to 13 (0.43 to 0.51) ※245 to 392 (25 to 40)		8 to 10 (0.315 to 0.397) ※402 to 598 (40 to 61)
A	DENSO	K20HR-U11	K16R-U 11	K16R-U	SC20HR11
	NGK	-	BKR5EYA 11	BKR5EYA	-
	A mm (in.)	1.0 to 1.1 (0.039 to 0.043)		0.7 to 0.8 (0.028 to 0.031)	1.0 to 1.1 (0.039 to 0.043)
BTDC		8 to 12°			
		(DLC3 Terminals 13 (TC) - 4 (CG) Connected)			
mm (in.)		0.145 to 0.235 (0.00571 to 0.00925)	0.15 to 0.25 (0.006 to 0.010)		0.06 to 0.155 (0.0024 to 0.0061)
		0.275 to 0.365 (0.01083 to 0.01437)	0.25 to 0.35 (0.010 to 0.014)		0.06 to 0.155 (0.0024 to 0.0061)
DLC3 Terminal 9 (TAC) Connected rpm	1 3 5 / 2 4 R	730 to 830	600 to 700		
	P R N D 2 L	-	650 to 750		-

		1KR-FE	2NZ-FE	1NZ-FE	2ZR-FE
kPa (kgf/cm², psi)		1422 (14.5, 206)	1471 (15, 213)		1176 (12.0, 171)
		↑1079 (11.0, 156)	↑1079 (11.0, 156)		↑931 (9.5, 134)
		↓47 (1.5, 21)	↓98 (1.0, 14)		
kPa (kgf/cm², psi)		↑30 (0.3, 4.3)	↑29 (0.3, 4.3)		↑25 (0.3, 3.7)
	3000 rpm	↑200 (2.0, 28.4)	150 to 550 (1.5 to 5.6, 22 to 80)		150 to 400 (1.6 to 4.1, 21.8 to 58)

		1KR-FE	2NZ-FE	1NZ-FE	2ZR-FE
liter (US qts, Imp.qts)		2.9 (3.1, 2.6)	3.4 (3.6, 3.1)		3.9 (4.1, 3.4)
		3.1 (3.3, 2.7)	3.7 (3.9, 3.4)		4.2 (4.4, 3.7)
		0W-20, 5W-20, 5W-30, 10W-30, 20W-50 and 15W-40 API grade SL or SM multigrade engine oil 10W-30 and 5W-30 API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC* multigrade engine oil			
N·m (kgf-cm, ft-lbf)	A	30 (306, 22)	37.5 (382, 27.6)		37 (377, 27)
liter (US qts, Imp.qts)	1 3 5 / 2 4 R	4.5 (4.8, 4.2)	Except G.C.C. 4.9 (5.2, 4.6)	4.8 (5.1, 4.5)	5.0 (5.3, 4.4)
			G.C.C. 5.1 (5.4, 4.7)		
	P R N D 2 L	-	Except G.C.C. 4.8 (5.1, 4.5)	4.7 (5.0, 4.4)	-
			G.C.C. 5.0 (5.3, 4.6)		-

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