mm (in.)	A	2NZ-FE **118.1 to 128.1** *(4.650 to 5.043)* 1NZ-FE **133.0 to 143.0** *(5.236 to 5.630)*	**144.4 to 154.4** *(5.685 to 6.079)*
	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	**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	⬆**73** *(2.87)*	⬆**74** *(2.91)*
		w/o ABS	⬆**70** *(2.75)*	-
			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**
liter (US qts, Imp.qts)	A	**1.9** *(2.0, 1.7)*	
		API GL-4 SAE 75W	
liter (US qts, Imp.qts)	B	**2.5** *(2.6, 2.2)*	
		Toyota Genuine ATF T-IV or equivalent	**Toyota Genuine ATF WS or equivalent**
N·m (kgf-cm, ft-lbf)	A	**39** *(400, 29)*	
	B	**49** *(500, 36)*	

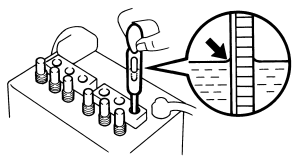
				NCP	
N·m (kgf-cm, ft-lbf)				**103** *(1050, 76)*	
				NCP	
mm (in.)				⬇**30** *(1.18)*	
	A	G.C.C. Countries General		**-0°08' ± 45'** *(-0.13° ± 0.75°)*	**-0°56' ± 45'** *(-0.93° ± 0.75°)*
		Rough Road Package		**0°08' ± 45'** *(0.13° ± 0.75°)*	**-0°54' ± 45'** *(-0.90° ± 0.75°)*
		Australia		**-0°10' ± 45'** *(-0.17° ± 0.75°)*	**-0°56' ± 45'** *(-0.93° ± 0.75°)*
	B (Reference)	G.C.C. Countries General		**11°14'** *(11.23°)*	-
		Rough Road Package		**10°44'** *(10.73°)*	-
		Australia		**11°18'** *(11.30°)*	-
	C	G.C.C. Countries General		**4°44' ± 45'** *(4.73° ± 0.75°)*	-
		Rough Road Package		**4°25' ± 45'** *(4.42° ± 0.75°)*	-
		Australia		**4°32' ± 45'** *(4.53° ± 0.75°)*	-
	D	General G.C.C. Countries	165/70R14	**45°23' ± 2'** *(45.38° ± 2°)*	-
			175/65R14 185/60R15	**41°00' ± 2'** *(41.00° ± 2°)*	-
		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	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°)*
		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.)	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)*
		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)*

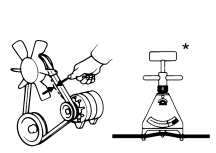
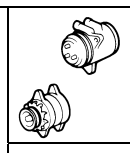
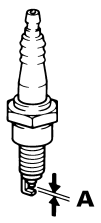
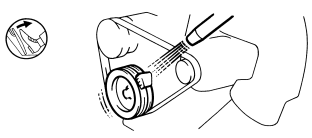
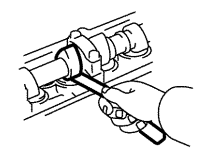
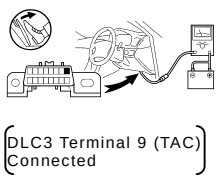
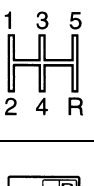
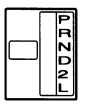
		140 km/h = 87 mph 160 km/h = 100 mph			
kPa (kgf/cm², psi)	General	175/65R14 82T 185/60R15 84H	⬇160	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆160	**230** *(2.3, 33)*	**230** *(2.3, 33)*
	Australia	175/65R14 82T 185/60R15 84H	⬇140	**220** *(2.2, 32)*	**220** *(2.2, 32)*
			⬆140	**260** *(2.7, 38)*	**260** *(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)*

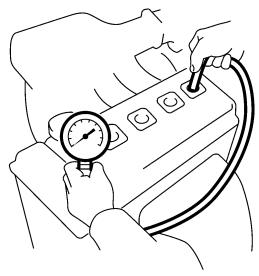
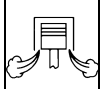
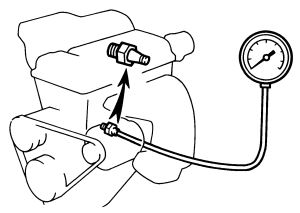
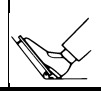
*1 When brake pedal is depressed with the force of 300 N (31 kgf, 67.4 lbf) while the engine is running.

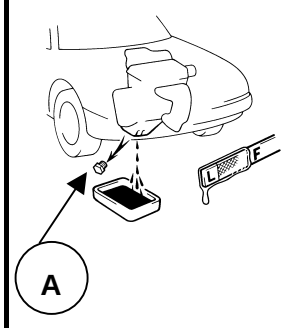
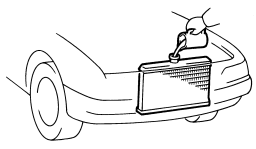
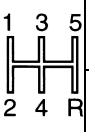
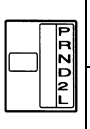
YARIS (for Hatchback) NCP 90, 91

TOYOTA QUALITY SERVICE

	NCP
 **20°C** *(68°F)*	**1.25 to 1.29**

		2NZ-FE	1NZ-FE
cm³ or cc *(cu. in.)*		**1298** *(79.2)*	**1497** *(91.3)*
 **mm** *(in.)* **N** *(kg, lb)*		**12.5 to 13.5** *(0.49 to 0.53)* ***300 to 400** *(31 to 41, 67 to 90)*	
	**DENSO**	K16R-U 11	K16R-U
	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)*
 **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) **rpm**		**600 to 700**	
		**650 to 750**	

		NCP
 **kPa** *(kgf/cm², psi)*		**1471** *(15, 213)*
		⬆**1079** *(11.0, 156)*
		⬇**98** *(1.0, 14)*
 **kPa** *(kgf/cm², psi)*		⬆**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**	**37.5** *(382, 27.6)*	
 **liter** *(US qts, Imp.qts)*		**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)*
		**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

mm (in.)	A	2NZ-FE 118.1 to 128.1 (4.650 to 5.043) 1NZ-FE 133.0 to 143.0 (5.236 to 5.630)	144.4 to 154.4 (5.685 to 6.079)
	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	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	⬆73 (2.87)	⬆74 (2.91)
		w/o ABS	⬆70 (2.75)	-
			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
A liter (US qts, Imp.qts)	1 3 5 2 4 R	1.9 (2.0, 1.7)	
		API GL-4 SAE 75W	
B liter (US qts, Imp.qts)	P R N D 2 L	2.5 (2.6, 2.2)	
		Toyota Genuine ATF T-IV or equivalent	Toyota Genuine ATF WS or equivalent
N·m (kgf-cm, ft-lbf)	A	39 (400, 29)	
	B	49 (500, 36)	

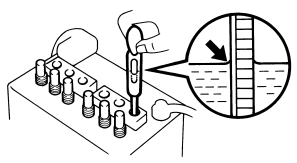
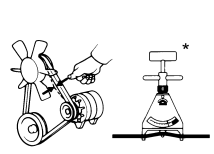
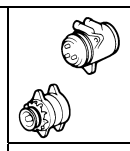
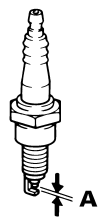
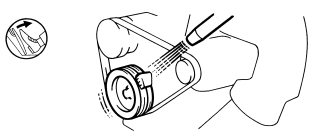
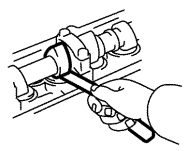
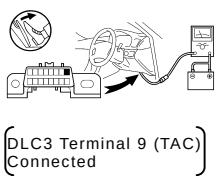
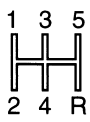
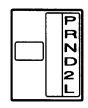
				NCP	
N·m (kgf-cm, ft-lbf)				103 (1050, 76)	
				NCP	
mm (in.)				⬇30 (1.18)	
B A C D	A	G.C.C. Countries General		-0°08' ± 45' (-0.13° ± 0.75°)	-0°56' ± 45' (-0.93° ± 0.75°)
		Rough Road Package		0°08' ± 45' (0.13° ± 0.75°)	-0°54' ± 45' (-0.90° ± 0.75°)
		Australia		-0°09' ± 45' (-0.15° ± 0.75°)	-0°55' ± 45' (-0.92° ± 0.75°)
	B (Reference)	G.C.C. Countries General		11°14' (11.23°)	-
		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°)	-
		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°)	-
		Rough Road Package		41°23' ± 2' (41.38° ± 2°)	-
		Australia		40°59' ± 2' (40.98° ± 2°)	-
E H F Front G	E+F	General G.C.C. Countries		0°09' ± 0°13' (0.15° ± 0.22°)	0°16' ± 0°20' (0.27° ± 0.33°)
		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)
		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)

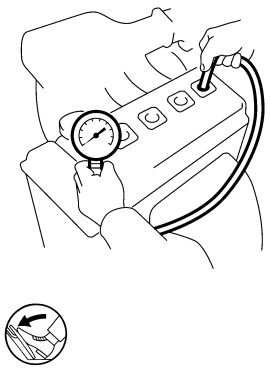
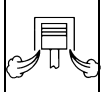
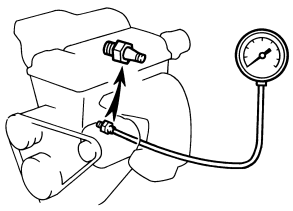
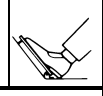
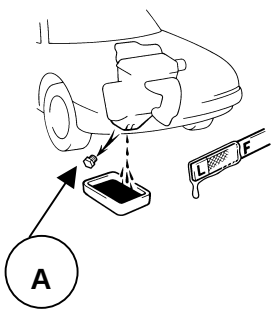
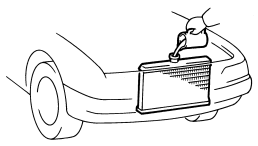
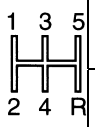
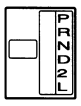
		140 km/h = 87 mph 160 km/h = 100 mph			
kPa (kgf/cm², psi)	General	175/65R14 82T 185/60R15 84H	⬇160	220 (2.2, 32)	220 (2.2, 32)
			⬆160	230 (2.3, 33)	230 (2.3, 33)
	Australia	175/65R14 82T 185/60R15 84H	⬇140	220 (2.2, 32)	220 (2.2, 32)
			⬆140	260 (2.7, 38)	260 (2.7, 38)
	G.C.C. Countries	175/65R14 82T 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 (for 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.)*	**1298** *(79.2)*	**1497** *(91.3)*
 **mm** *(in.)* **N** *(kg, lb)*	 	**12.5 to 13.5** *(0.49 to 0.53)* ***300 to 400** *(31 to 41, 67 to 90)*	
	**DENSO**	K16R-U 11	K16R-U
	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)*
 **BTDC**		**8 to 12°**	
		(DLC3 Terminal 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) **rpm**	 	**600 to 700**	
		650 to 750	

		NCP	
 **kPa** *(kgf/cm², psi)*		**1471** *(15, 213)*	
		**↑1079** *(11.0, 156)*	
		**↓98** *(1.0, 14)*	
 **kPa** *(kgf/cm², psi)*		**↑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**	**37.5** *(382, 27.6)*	
 **liter** *(US qts, Imp.qts)*		**w/o Fan Shroud Ventilation Duct** **4.9** *(5.2, 4.6)*	**4.8** *(5.1, 4.5)*
		w/ Fan Shroud Ventilation Duct **5.1** *(5.4, 4.7)*	
		**w/o Fan Shroud Ventilation Duct** **4.8** *(5.1, 4.5)*	**4.7** *(5.0, 4.4)*
		w/ Fan Shroud Ventilation Duct **5.0** *(5.3, 4.6)*	

* ILSAC: International Lubricant Standardization and Approval Committee