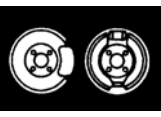
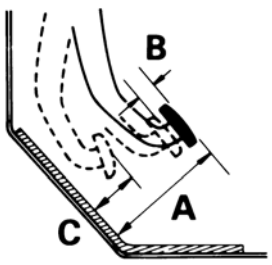
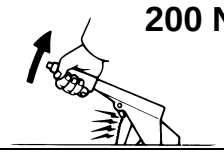
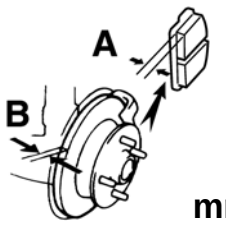
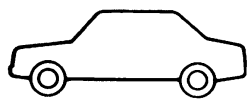
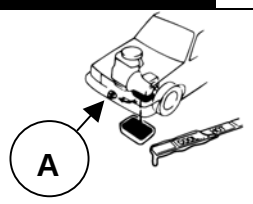
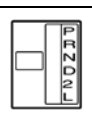
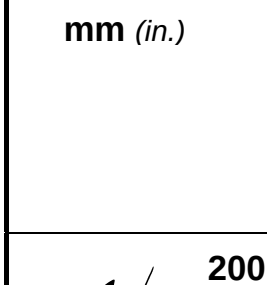
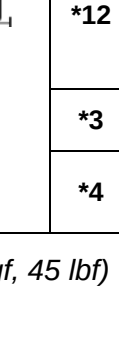
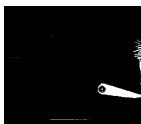
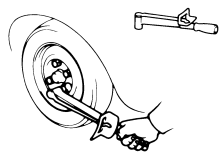
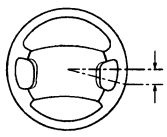
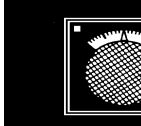
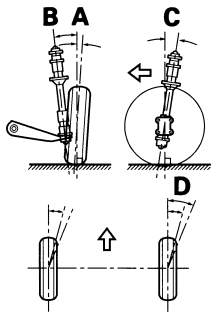
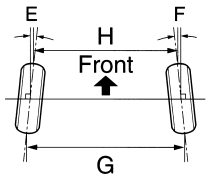
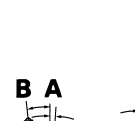
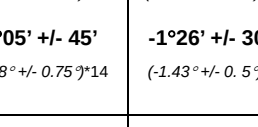
 **mm** *(in.)* 	**A**	**135.5 to 145.5** *(5.335 to 5.728)**1 **143.6 to 153.6** *(5.654 to 6.047)**2	**153.4 to 163.4** *(6.039 to 6.433)**1 **162.3 to 172.3** *(6.390 to 6.784)**2
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**25** *(0.984)*	
	***3**	**SAE J1703 or FMVSS No. 116 DOT3**	
	***4**	**SAE J1703 or FMVSS No. 116 DOT4*5*6**	
			
 **mm** *(in.)* 	**A**	**145.8 to 155.8** *(5.74 to 6.13)*	**130.8 to 140.8** *(5.15 to 5.54)**5 **130 to 140** *(5.12 to 5.51)**6*7
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C *12	**85** *(3.35)*	**64** *(2.52)**8 **69** *(2.72)**9 **65** *(2.56)**4
	***3**	**SAE J1703 or FMVSS No. 116 DOT3**	
	***4**	**SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4**	
200 N *(20 kgf, 45 lbf)* 		**5 to 8**	**5 to 8***10 **3 to 6***11
 **mm** *(in.)*			
	A	**1.0** *(0.0394)*	
	B	**19.0** *(0.748)**3 **23.0** *(0.906)**4	**7.5** *(0.295)**3 **8.0** *(0.315)**4
		**NRE, ZRE**	
 **liters** *(US qts, lmp.qts)*		Drain and refill **2.5** *(2.6, 2.2)*	
		Toyota Genuine ATF WS	
N·m *(kgf·cm, ft.·lbf)*	**A**	**49** *(500, 36)*	
 **liters** *(US qts, lmp.qts)*		**2.4** *(2.5, 2.1)*	
		API GL-4 SAE 75W	
N·m *(kgf·cm, ft.·lbf)*	**A**	**45** *(459, 33)*	

				**NRE, ZRE**
 **N·m** *(kgf·cm, ft.·lbf)*				**103** *(1050, 76)*
				**NRE, ZRE**
 **mm** *(in.)*				**30** *(1.18)*
				
		Normal package	Rough road package	Normal package	Rough road package
	**A**	**-0°12’ +/- 45’** *(-0.20° +/- 0.75°)*	**-0°04’ +/- 45’** *(-0.07° +/- 0.75°)**13 **-0°05’ +/- 45’** *(-0.08° +/- 0.75°)**14	**-1°25’ +/- 30’** *(-1.42° +/- 0.5°)**3 **-1°26’ +/- 30’** *(-1.43° +/- 0.5°)**4	**-1°23’ +/- 30’** *(-1.38° +/- 0.5°)*
	B	**12°10’** *(12.17°)*	**11°43’** *(11.72°)*	-	-
	C	**5°37’ +/- 45’** *(5.62° +/- 0.75°)**3 **5°50’ +/- 45’** *(5.83° +/- 0.75°)**4	**5°32’ +/- 45’** *(5.53° +/- 0.75°)*	-	-
	D	**39°15’ +/- 2°** *(39.25° +/- 2°)**13 **39°16’ +/- 2°** *(39.27° +/- 2°)**14	**39°43’ +/- 2°** *(39.72° +/- 2°)**13 **39°44’ +/- 2°** *(39.73° +/- 2°)**14	-	-
	**E+F**	**0°12’ +/- 0°12’** *(0.20° +/- 0.20°)*		**0°10’ +/- 18’** *(0.17° +/- 0.30°)**3 **0°14’ +/- 18’** *(0.24° +/- 0.30°)**4	**0°06’ +/- 18’** *(0.11 +/- 0.30°)*
	G-H **mm** *(in.)*	**2.0 +/- 2.0** *(0.08 +/- 0.08)*		**1.7 +/- 3** *(0.07 +/- 0.11)**3 **2.4 +/- 3** *(0.09 +/- 0.11)**4	**1.1 +/- 3** *(0.04 +/- 0.11)*
					
		km/h (mph)			
kPa *(kgf/cm²* *or bar, psi)*	195/65R15 91H 205/55R16 91V	**160** *(100)*		**250** *(2.5, 36)*	
		160 *(100)*		**220** *(2.2, 32)*	

*****1: 1NR-FE *****2: 1ZR-FE, 2ZR-FE *****3: for TMC made *****4: except TMC made *****5: for MT *****6: for MMT *****7: for AT *****8: for TMC made w/o VSC
*****9: for TMC made w/ VSC *****10: for Sedan *****11: for Hatchback *12: When brake pedal is depressed with a force of 294 N (30 kgf, 66 lbf)
*****13: Tire size: 195/65R15 *****14: Tire size: 205/55R16

COROLLA / AURIS

NRE150
ZRE151, 152

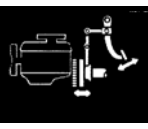
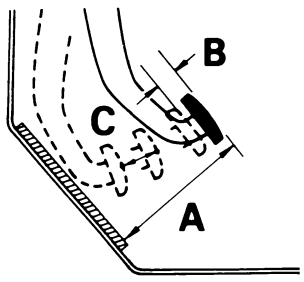
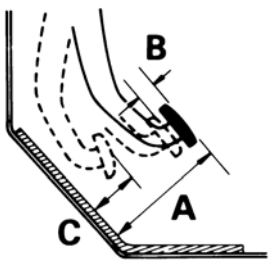
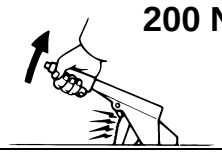
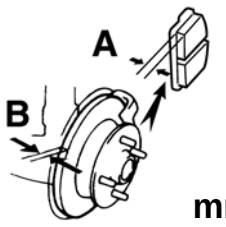
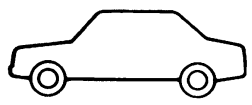
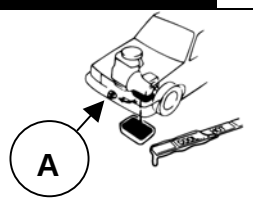
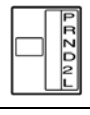
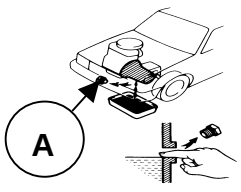
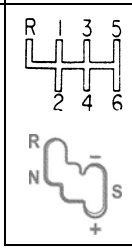
2008/11 – 2009/10

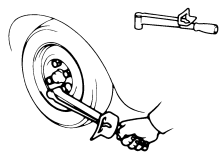
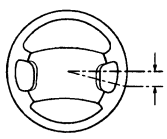
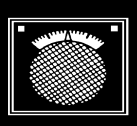
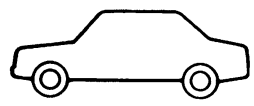
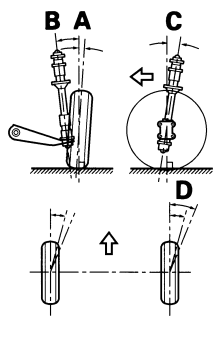
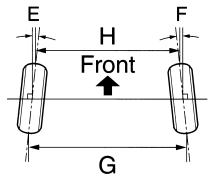
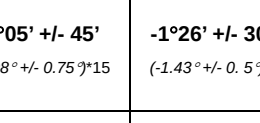
		NRE, ZRE			
20°C *(68°F)*		**1.25 to 1.29**			
		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**
	cm³ or cc *(cu. in.)*	**1329** *(81.1)*	**1598** *(97.5)*	**1598** *(97.5)*	**1798** *(109.7)*
*	**mm** *(in.)* **N** *(kgf, lbf)*	-	**7.6 to 10.0** *(0.300 to 0.393)* **550 to 750*** *(57 to 76, 123.7 to 168.6)*		
A	**DENSO**	**SC20HR11**			
	A **mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*			
	BTDC	**8 to 12°** (DLC3 Terminals 13 (TC) and 4 (CG) Connected)			
	rpm	**600 to 700**	**625 to 725**		**600 to 700**

		1200 *(12.2, 174)*		**1373** *(14.0, 199)*	
	kPa *(kgf/cm², psi)*	⬆ **900** *(9.1, 131)*		⬆ **1079** *(11.0, 157)*	
		⬇ **98** *(1.0, 14.2)*		⬇ **98** *(1.0, 14.2)*	
		⬆ **30** *(0.3, 4.4)*		⬆ **25** *(0.3, 3.6)*	
	kPa *(kgf/cm², psi)*	**3000 rpm**	⬆ **150 to 550** (*1.5 to 5.6, 22 to 80*)		
		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**
		3.2 *(3.4, 2.8)*	**3.9** *(4.1, 3.4)*		
		3.4 *(3.6, 3.0)*	**4.2** *(4.4, 3.7)*		
A	**liters** *(US qts, Imp.qts)*	**0W-20: API grade SM energy-conserving ILSAC*1 multigrade engine oil**	**0W-20, 5W-20, 5W-30 and 10W-30: API grade SL energy-conserving, API grade SM energy-conserving or ILSAC*1 multigrade engine oil.** **20W-50 and 15W-40: API grade SL or SM multigrade engine oil**		
	N·m *(kgf·cm, ft.·lbf)* **A**	**30** *(306, 22)*	**37** *(377, 27)*		
	liters *(US qts, Imp.qts)*	**4.7** *(5.0, 4.1)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3	**5.6** *(5.9, 4.9)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3

***1**: International Lubricant Standardization and Approval Committee ***2**: for MT ***3**: for AT

TOYOTA MOTOR CORPORATION Technical Service Division

			
 **mm** *(in.)* 	**A**	**135.5 to 145.5** *(5.335 to 5.728)**1 **143.6 to 153.6** *(5.654 to 6.047)**2	**153.4 to 163.4** *(6.039 to 6.433)**1 **162.3 to 172.3** *(6.390 to 6.784)**2
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**25** *(0.984)*	
	***3**	**SAE J1703 or FMVSS No. 116 DOT3**	
	***4**	**SAE J1703 or FMVSS No. 116 DOT4*5*6**	
			
 **mm** *(in.)* 	**A**	**145.8 to 155.8** *(5.74 to 6.13)*	**130.8 to 140.8** *(5.15 to 5.54)**5 **130 to 140** *(5.12 to 5.51)**6*7
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C *13	**85** *(3.35)*	**64** *(2.52)**8 **69** *(2.72)**9 **65** *(2.56)**4
	***3**	**SAE J1703 or FMVSS No. 116 DOT3**	
	***4**	**SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4**	
200 N *(20 kgf, 45 lbf)* 		**5 to 8**	**5 to 8*10 4 to 7*11 3 to 6*12**
 **mm** *(in.)*			
	A	**1.0** *(0.0394)*	
	B	**19.0** *(0.748)**3 **23.0** *(0.906)**4	**7.5** *(0.295)**3 **8.0** *(0.315)**4
		**NRE, ZRE**	
 **liters** *(US qts, lmp.qts)*		Drain and refill **2.5** *(2.6, 2.2)*	
		Toyota Genuine ATF WS	
N·m *(kgf·cm, ft.·lbf)*	**A**	**49** *(500, 36)*	
 **liters** *(US qts, lmp.qts)*		**2.4** *(2.5, 2.1)*	
		API GL-4 SAE 75W	
N·m *(kgf·cm, ft.·lbf)*	**A**	**45** *(459, 33)*	

			**NRE, ZRE**	
 **N·m** *(kgf·cm, ft.·lbf)*			**103** *(1050, 76)*	
			**NRE, ZRE**	
 **mm** *(in.)*			**30** *(1.18)*	
				
			Normal package	Rough road package / Normal package / Rough road package
	**A**		**-0°12' +/- 45'** *(-0.20° +/- 0.75°)*	**-0°04' +/- 45'** *(-0.07° +/- 0.75°)**14 **-0°05' +/- 45'** *(-0.08° +/- 0.75°)**15 / **-1°25' +/- 30'** *(-1.42° +/- 0.5°)**3 **-1°26' +/- 30'** *(-1.43° +/- 0.5°)**4 / **-1°23' +/- 30'** *(-1.38° +/- 0.5°)*
	B		**12°10'** *(12.17°)*	**11°43'** *(11.72°)* / **-** / **-**
	C		**5°37' +/- 45'** *(5.62° +/- 0.75°)**3 **5°50' +/- 45'** *(5.83° +/- 0.75°)**4	**5°32' +/- 45'** *(5.53° +/- 0.75°)* / **-** / **-**
	D		**39°15' +/- 2°** *(39.25° +/- 2°)**14 **39°16' +/- 2°** *(39.27° +/- 2°)**15	**39°43' +/- 2°** *(39.72° +/- 2°)**14 **39°44' +/- 2°** *(39.73° +/- 2°)**15 / **-** / **-**
	**E+F**		**0°12' +/- 0°12'** *(0.20° +/- 0.20°)*	**0°10' +/- 18'** *(0.17° +/- 0.30°)**3 **0°14' +/- 18'** *(0.24° +/- 0.30°)**4 / **0°06' +/- 18'** *(0.11 +/- 0.30°)*
	G-H **mm** *(in.)*		**2.0 +/- 2.0** *(0.08 +/- 0.08)*	**1.7 +/- 3** *(0.07 +/- 0.11)**3 **2.4 +/- 3** *(0.09 +/- 0.11)**4 / **1.1 +/- 3** *(0.04 +/- 0.11)*
		km/h *(mph)*		
kPa *(kgf/cm²* *or bar, psi)*	195/65R15 91H 205/55R16 91V	**160** *(100)*	**250** *(2.5, 36)*	
		160 *(100)*	**220** *(2.2, 32)*	

*****1: 1NR-FE *****2: 1ZR-FE, 2ZR-FE *****3: for TMC made *****4: except TMC made *****5: for MT *****6: for MMT *****7: for AT *****8: for TMC made w/o VSC
*****9: for TMC made w/ VSC *****10: for Sedan *****11: for TMC made Hatchback *****12: for TMUK, TMMT made
*13: When brake pedal is depressed with a force of 294 N (30 kgf, 66 lbf) *****14: Tire size: 195/65R15 *****15: Tire size: 205/55R16

COROLLA / AURIS

NRE150
ZRE151, 152

2009/10 – 2010/01

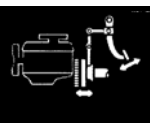
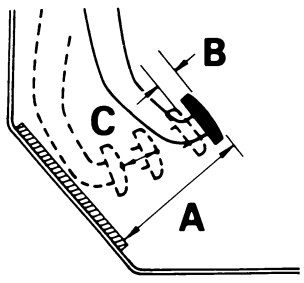
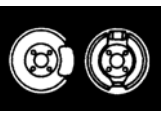
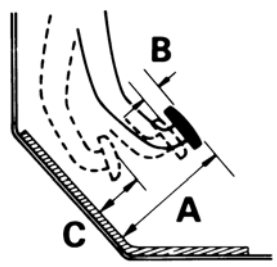
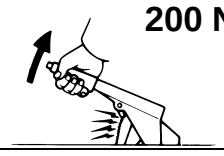
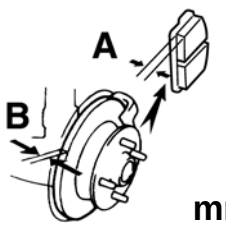
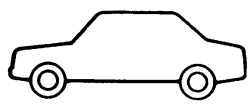
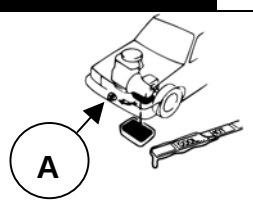
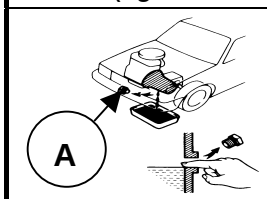
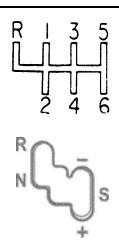
		NRE, ZRE			
20°C *(68°F)*		**1.25 to 1.29**			
		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**
	cm³ or cc *(cu. in.)*	**1329** *(81.1)*	**1598** *(97.5)*	**1598** *(97.5)*	**1798** *(109.7)*
*	**mm** *(in.)* **N** *(kgf, lbf)*	-	**7.6 to 10.0** *(0.300 to 0.393)* **550 to 750*** *(57 to 76, 123.7 to 168.6)*		
A	**DENSO**	**SC20HR11**			
	A **mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*			
	BTDC	**8 to 12°** (DLC3 Terminals 13 (TC) and 4 (CG) Connected)			
	rpm	**600 to 700**	**625 to 725**		**600 to 700**

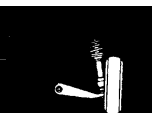
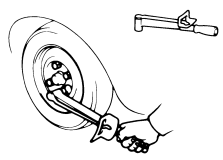
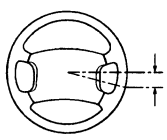
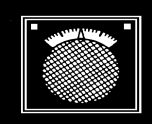
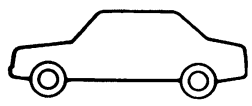
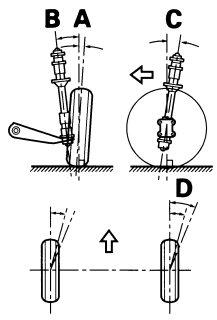
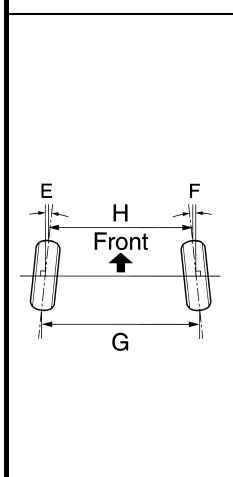
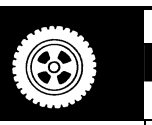
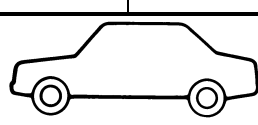
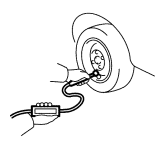
	kPa *(kgf/cm², psi)*		**1200** *(12.2, 174)*	**1373** *(14.0, 199)*	
			900 *(9.1, 131)*	**1079** *(11.0, 157)*	
			98 *(1.0, 14.2)*	**98** *(1.0, 14.2)*	
	kPa *(kgf/cm², psi)*		**30** *(0.3, 4.4)*	**25** *(0.3, 3.6)*	
		3000 rpm	**150 to 550** (*1.5 to 5.6, 22 to 80*)		

		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**
A	**liters** *(US qts, Imp.qts)*	**3.2** *(3.4, 2.8)*	**3.9** *(4.1, 3.4)*		
		3.4 *(3.6, 3.0)*	**4.2** *(4.4, 3.7)*		
		0W-20: API grade SM energy-conserving ILSAC*1 multigrade engine oil	**0W-20, 5W-20, 5W-30 and 10W-30: API grade SL energy-conserving, API grade SM energy-conserving or ILSAC*1 multigrade engine oil. 20W-50 and 15W-40: API grade SL or SM multigrade engine oil**		
	N·m *(kgf·cm, ft.·lbf)* **A**	**30** *(306, 22)*	**37** *(377, 27)*		
	liters *(US qts, Imp.qts)*	**4.7** *(5.0, 4.1)*	**5.6** *(5.9, 4.9)**2 **5.5** *(5.8, 4.8)**3	**5.6** *(5.9, 4.9)*	**5.6** *(5.9, 4.9)**2 **5.5** *(5.8, 4.8)**3

***1**: International Lubricant Standardization and Approval Committee ***2**: for MT ***3**: for AT

TOYOTA MOTOR CORPORATION Technical Service Division

			
 mm *(in.)* 	A	**135.5 to 145.5** *(5.335 to 5.728)**1 **143.6 to 153.6** *(5.654 to 6.047)**2	**153.4 to 163.4** *(6.039 to 6.433)**1 **162.3 to 172.3** *(6.390 to 6.784)**2
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**25** *(0.984)*	
	*3	**SAE J1703 or FMVSS No. 116 DOT3**	
	*4	**SAE J1703 or FMVSS No. 116 DOT4*5*6**	
			
 mm *(in.)* 	A	**145.8 to 155.8** *(5.74 to 6.13)*	**130.8 to 140.8** *(5.15 to 5.54)**5 **130 to 140** *(5.12 to 5.51)**6*7
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C *14	**85** *(3.35)*	**64** *(2.52)**8 **69** *(2.72)**9 **65** *(2.56)**4
	*3	**SAE J1703 or FMVSS No. 116 DOT3**	
	*4	**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
200 N *(20 kgf, 45 lbf)* 		**5 to 8**	**5 to 8*10** **4 to 7*11**
 mm *(in.)*			
	A	**1.0** *(0.0394)*	
	B	**19.0** *(0.748)**3 **23.0** *(0.906)**4	**7.5** *(0.295)**3 **8.0** *(0.315)**4
		**NRE, ZRE**	
 liters *(US qts, lmp.qts)*		Drain and refill **2.5** *(2.6, 2.2)**12 **3.5** *(3.7, 3.1)**13	
N·m *(kgf·cm, ft.·lbf)*	A	**49** *(500, 36)*	**Toyota Genuine ATF WS**
 liters *(US qts, lmp.qts)*		**2.4** *(2.5, 2.1)*	**API GL-4 SAE 75W**
N·m *(kgf·cm, ft.·lbf)*	A	**45** *(459, 33)*	

					**NRE, ZRE**
 N·m *(kgf·cm, ft.·lbf)*					**103** *(1050, 76)*
					**NRE, ZRE**
 mm *(in.)*					**30** *(1.18)*
					
			Normal package	Rough road package	Normal package	Rough road package
	A		**-0°12' +/- 45'** *(-0.20° +/- 0.75°)*	**-0°04' +/- 45'** *(-0.07° +/- 0.75°)**15 **-0°05' +/- 45'** *(-0.08° +/- 0.75°)**16	**-1°25' +/- 30'** *(-1.42° +/- 0.5°)**3 **-1°26' +/- 30'** *(-1.43° +/- 0.5°)**4	**-1°23' +/- 30'** *(-1.38° +/- 0.5°)*
	B		**12°10'** *(12.17°)*	**11°43'** *(11.72°)*	-	-
	C		**5°37' +/- 45'** *(5.62° +/- 0.75°)**3 **5°50' +/- 45'** *(5.83° +/- 0.75°)**4	**5°32' +/- 45'** *(5.53° +/- 0.75°)*	-	-
	D		**39°15' +/- 2°** *(39.25° +/- 2°)**15 **39°16' +/- 2°** *(39.27° +/- 2°)**16	**39°43' +/- 2°** *(39.72° +/- 2°)**15 **39°44' +/- 2°** *(39.73° +/- 2°)**16	-	-
	E+F		**0°12' +/- 0°12'** *(0.20° +/- 0.20°)*		**0°10' +/- 18'** *(0.17° +/- 0.30°)**3 **0°14' +/- 18'** *(0.24° +/- 0.30°)**4	**0°06' +/- 18'** *(0.11 +/- 0.30°)*
	G-H mm *(in.)*		**2.0 +/- 2.0** *(0.08 +/- 0.08)*		**1.7 +/- 3** *(0.07 +/- 0.11)**3 **2.4 +/- 3** *(0.09 +/- 0.11)**4	**1.1 +/- 3** *(0.04 +/- 0.11)*
						
 kPa *(kgf/cm²* or *bar, psi)*	195/65R15 91H 205/55R16 91V	km/h (mph) 160 *(100)*			**250** *(2.5, 36)*	
		160 *(100)*			**220** *(2.2, 32)**17 **230** *(2.3, 33)**18	

*****1: 1NR-FE *****2: 1ZR-FE, 2ZR-FE *****3: for TMC made *****4: except TMC made *****5: for MT *****6: for MMT *****7: for AT *****8: for TMC made w/o VSC
*****9: for TMC made w/ VSC *****10: for Sedan *****11: for Hatchback *****12: U340E, U341E *****13: U241E
*14: When brake pedal is depressed with a force of 294 N (30 kgf, 66 lbf) *****15: Tire size: 195/65R15 *****16: Tire size: 205/55R16
*****17: except TMUK, TMMT made 1NR-FE *****18: for TMUK, TMMT made 1NR-FE

COROLLA / AURIS

NRE150
ZRE151, 152, 153

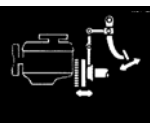
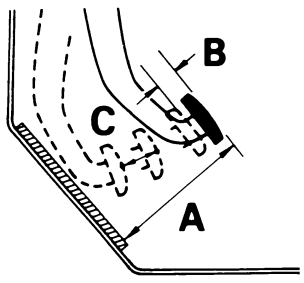
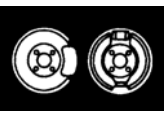
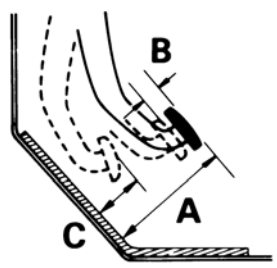
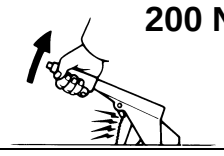
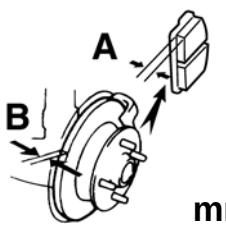
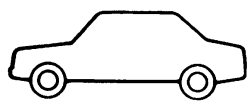
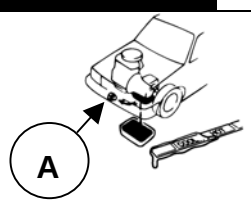
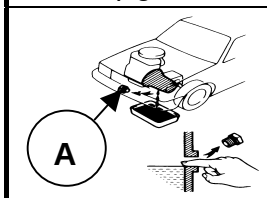
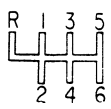
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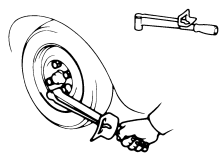
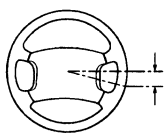
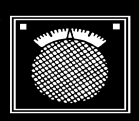
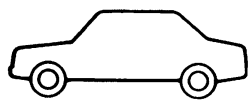
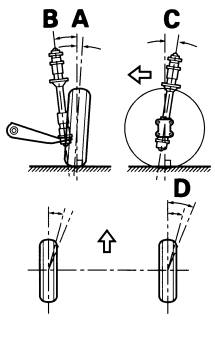
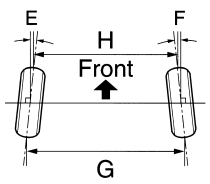
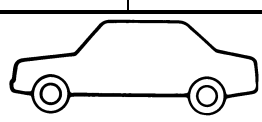
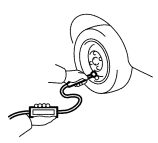
	NRE, ZRE					
20°C *(68°F)*	**1.25 to 1.29**					
	1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**	**3ZR-FE**	
cm³ or cc *(cu. in.)*	**1329** *(81.1)*	**1598** *(97.5)*	**1598** *(97.5)*	**1798** *(109.7)*	**1987** *(121.2)*	
mm *(in.)* **N** *(kgf, lbf)* *	**-**	**7.6 to 10.0** *(0.300 to 0.393)* **550 to 750*** *(57 to 76, 123.7 to 168.6)*				
DENSO	**SC20HR11**					
A **mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*					
BTDC	**8 to 12°** (DLC3 Terminals 13 (TC) and 4 (CG) Connected)					
rpm	**600 to 700**	**625 to 725**	**600 to 700**	**625 to 725**		

kPa *(kgf/cm², psi)*		**1200** *(12.2, 174)*	**1373** *(14.0, 199)*			
		⬆ **900** *(9.1, 131)*	⬆ **1079** *(11.0, 157)*			
		⬇ **98** *(1.0, 14.2)*	⬇ **98** *(1.0, 14.2)*			
kPa *(kgf/cm², psi)*		⬆ **30** *(0.3, 4.4)*	⬆ **25** *(0.3, 3.6)*			
	3000 rpm	⬆ **150 to 550** (*1.5 to 5.6, 22 to 80*)				
	1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**	**3ZR-FE**	
liters *(US qts, lmp.qts)*	**3.2** *(3.4, 2.8)*	**3.9** *(4.1, 3.4)*				
	3.4 *(3.6, 3.0)*	**4.2** *(4.4, 3.7)*				
N·m *(kgf·cm, ft.·lbf)*	**0W-20: API grade SM energy-conserving ILSAC*1 multigrade engine oil**	**0W-20, 5W-20, 5W-30 and 10W-30: API grade SL energy-conserving, API grade SM energy-conserving or ILSAC*1 multigrade engine oil.** **15W-40 and 20W-50: API grade SL or SM multigrade engine oil**				
A	**30** *(306, 22)*	**37** *(377, 27)*				
liters *(US qts, lmp.qts)*	**4.7** *(5.0, 4.1)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3	**5.6** *(5.9, 4.9)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3	**5.5** *(5.8, 4.8)*	

***1**: International Lubricant Standardization and Approval Committee ***2**: for MT ***3**: for AT

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 mm *(in.)* 	A	**135.5 to 145.5** *(5.335 to 5.728)**1 **143.6 to 153.6** *(5.654 to 6.047)**2	**153.4 to 163.4** *(6.039 to 6.433)**1 **162.3 to 172.3** *(6.390 to 6.784)**2*3
	B	**5.0 to 15.0** *(0.197 to 0.591)*	
	C	**25** *(0.984)*	
	*4	**SAE J1703 or FMVSS No. 116 DOT3**	
	*5	**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
			
 mm *(in.)* 	A	**145.8 to 155.8** *(5.74 to 6.13)*	**130.8 to 140.8** *(5.15 to 5.54)**6 **130 to 140** *(5.12 to 5.51)**7
	B	**1.0 to 6.0** *(0.0394 to 0.236)*	
	C *16	**85** *(3.35)*	**64** *(2.52)**8 **69** *(2.72)**9 **65** *(2.56)**5
	*4	**SAE J1703 or FMVSS No. 116 DOT3**	
	*5	**SAE J1703 or FMVSS No. 116 DOT3** **SAE J1704 or FMVSS No. 116 DOT4**	
200 N *(20 kgf, 45 lbf)* 		**5 to 8**	**5 to 8***10 **4 to 7***11
 mm *(in.)*			
	A	**1.0** *(0.0394)*	
	B	**19.0** *(0.748)**4 **23.0** *(0.906)**5	**7.5** *(0.295)**4 **8.0** *(0.315)**5
		NRE, ZRE	
 liters *(US qts, lmp.qts)*		Drain and refill **2.5** *(2.6, 2.2)**12 **3.5** *(3.7, 3.1)**13	
N·m *(kgf·cm, ft.·lbf)*	A	**49** *(500, 36)*	
 liters *(US qts, lmp.qts)*		**2.4** *(2.5, 2.1)*	
		API GL-4 SAE 75W	
N·m *(kgf·cm, ft.·lbf)*	A	**39** *(400, 29)**14 **45** *(459, 33)**15	

					**NRE, ZRE**
 N·m *(kgf·cm, ft.·lbf)*					**103** *(1050, 76)*
					**NRE, ZRE**
 mm *(in.)*					**30** *(1.18)*
					
			Normal package	Rough road package	Normal package	Rough road package
	A		**-0°12' +/- 45'** *(-0.20° +/- 0.75°)*	**-0°04' +/- 45'** *(-0.07° +/- 0.75°)**17 **-0°05' +/- 45'** *(-0.08° +/- 0.75°)**18	**-1°25' +/- 30'** *(-1.42° +/- 0.5°)**4 **-1°26' +/- 30'** *(-1.43° +/- 0.5°)**5	**-1°23' +/- 30'** *(-1.38° +/- 0.5°)*
	B		**12°10'** *(12.17°)*	**11°43'** *(11.72°)*	-	-
	C		**5°37' +/- 45'** *(5.62° +/- 0.75°)**4 **5°50' +/- 45'** *(5.83° +/- 0.75°)**5	**5°32' +/- 45'** *(5.53° +/- 0.75°)*	-	-
	D		**39°15' +/- 2°** *(39.25° +/- 2°)**17 **39°16' +/- 2°** *(39.27° +/- 2°)**18	**39°43' +/- 2°** *(39.72° +/- 2°)**17 **39°44' +/- 2°** *(39.73° +/- 2°)**18	-	-
	E+F		**0°12' +/- 0°12'** *(0.20° +/- 0.20°)*		**0°10' +/- 18'** *(0.17° +/- 0.30°)**4 **0°14' +/- 18'** *(0.24° +/- 0.30°)**5	**0°06' +/- 18'** *(0.11 +/- 0.30°)*
	G-H mm *(in.)*		**2.0 +/- 2.0** *(0.08 +/- 0.08)*		**1.7 +/- 3** *(0.07 +/- 0.11)**4 **2.4 +/- 3** *(0.09 +/- 0.11)**5	**1.1 +/- 3** *(0.04 +/- 0.11)*
						
 kPa *(kgf/cm²* or bar, psi)	195/65R15 91H 205/55R16 91V	km/h (mph) 160 *(100)*			**250** *(2.5, 36)*	
		160 *(100)*			**220** *(2.2, 32)**19 **230** *(2.3, 33)**20	

*1: 1NR-FE *2: 1ZR-FE, 2ZR-FE *3: 3ZR-FE *4: for TMC made *5: except TMC made *6: for MT *7: for AT *8: for TMC made w/o VSC
*9: for TMC made w/ VSC *10: for Sedan *11: for Hatchback *12: U340E, U341E *13: U241E *14: EB60 *15: EC60
*16: When brake pedal is depressed with a force of 294 N (30 kgf, 66 lbf) *17: Tire size: 195/65R15 *18: Tire size: 205/55R16
*19: except TMUK, TMMT made 1NR-FE *20: for TMUK, TMMT made 1NR-FE

COROLLA / AURIS

NRE150
ZRE151, 152, 153

2010/06 –

		NRE, ZRE				
20°C *(68°F)*		**1.25 to 1.29**				
		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**	**3ZR-FE**
	cm³ or cc *(cu. in.)*	**1329** *(81.1)*	**1598** *(97.5)*	**1598** *(97.5)*	**1798** *(109.7)*	**1987** *(121.2)*
mm *(in.)* **N** *(kgf, lbf)*	*	-	**7.6 to 10.0** *(0.300 to 0.393)* **550 to 750*** *(57 to 76, 123.7 to 168.6)*			
A	**DENSO**	**SC20HR11**				
A	**A mm** *(in.)*	**1.0 to 1.1** *(0.0394 to 0.0433)*				
BTDC		**8 to 12°** (DLC3 Terminals 13 (TC) and 4 (CG) Connected)				
rpm		**600 to 700**	**625 to 725**	**600 to 700**	**625 to 725**	

kPa *(kgf/cm², psi)*		**1200** *(12.2, 174)*	**1373** *(14.0, 199)*			
		900 *(9.1, 131)*	**1079** *(11.0, 157)*			
		98 *(1.0, 14.2)*	**98** *(1.0, 14.2)*			
kPa *(kgf/cm², psi)*		**30** *(0.3, 4.4)*	**25** *(0.3, 3.6)*			
	3000 rpm	**150 to 550** (*1.5 to 5.6, 22 to 80*)				
		1NR-FE	**1ZR-FE**	**1ZR-FAE**	**2ZR-FE**	**3ZR-FE**
liters *(US qts, lmp.qts)*		**3.2** *(3.4, 2.8)*	**3.9** *(4.1, 3.4)*			
		3.4 *(3.6, 3.0)*	**4.2** *(4.4, 3.7)*			
N·m *(kgf·cm, ft.·lbf)*		**0W-20: API grade SM energy-conserving ILSAC*1 multigrade engine oil**	**0W-20, 5W-20, 5W-30 and 10W-30: API grade SL energy-conserving, API grade SM energy-conserving or ILSAC*1 multigrade engine oil. 15W-40 and 20W-50: API grade SL or SM multigrade engine oil**			
A	**A**	**30** *(306, 22)*	**37** *(377, 27)*			
liters *(US qts, lmp.qts)*		**4.7** *(5.0, 4.1)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3	**5.6** *(5.9, 4.9)*	**5.6** *(5.9, 4.9)*2 **5.5** *(5.8, 4.8)*3	

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