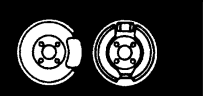

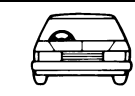
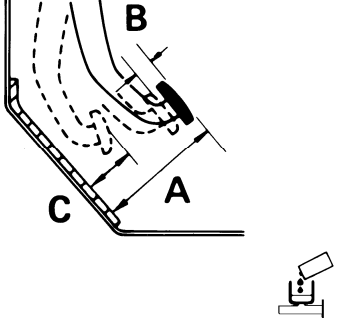
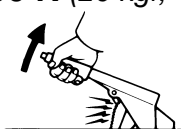
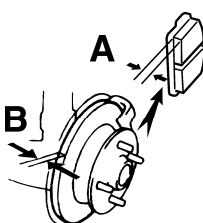
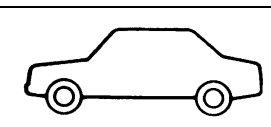

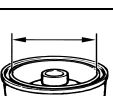

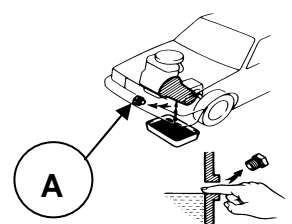
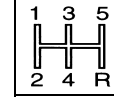
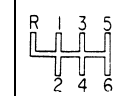
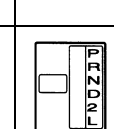
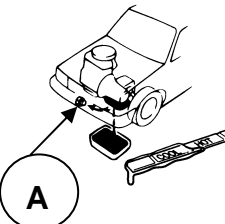

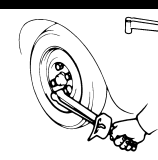

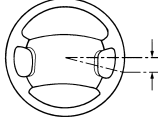
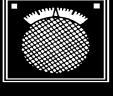


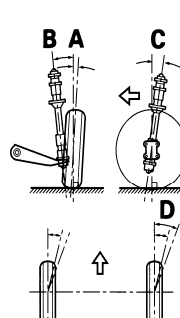
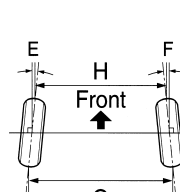
 mm (in.)	A	157.7 to 167.7 (6.209 to 6.602)	168.5 to 178.5 (6.634 to 7.028)	
	B	5.0 to 15.0 (0.197 to 0.591)		
	C	25 (0.984)		
SAE J1703 or FMVSS No. 116 DOT3				
				
 mm (in.)	A	141.4 to 151.4 (5.57 to 5.96)	146.1 to 156.1 (5.75 to 6.15)	
	B	1.0 to 6.0 (0.0394 to 0.236)		
	C*3	85 (3.35)*1 81 (3.19)*2	87 (3.43)*1 83 (3.27)*2	
SAE J1703 or FMVSS No. 116 DOT3				
200 N (20 kgf, 45 lbf) 	6 to 9			
		1.0 (0.0394)		
mm (in.)	A	1.0 (0.0394)		
	B	19.0 (0.748)*4*6 23.0 (0.906)*5	7.5 (0.295)*4*6 8.0 (0.315)*5	
	1.0 (0.0394)			
	229.6 (9.04)			
	NZE	ZZE	ZRE	
 liters (US qts, Imp. qts)		-	1.9 (2.0, 1.7)	-
		-	-	2.4 (2.5, 2.1)
N-m (kgf-cm, ft-lbf)	A	-	39 (400, 29)	45 (459, 33)
		2.9 (3.1, 2.6)		2.9 (3.1, 2.6)*10 3.5 (3.7, 3.1)*11
 liters (US qts, Imp. qts)	Toyota Genuine ATF WS			
	A	49 (500, 36)		49 (500, 36)*10 47 (479, 35)*11
N-m (kgf-cm, ft-lbf)	49 (500, 36)			49 (500, 36)*10 47 (479, 35)*11

	NZE, ZZE, ZRE			
	103 (1050, 76)			
N-m (kgf-cm, ft-lbf)	NZE, ZZE, ZRE			
	NZE, ZZE, ZRE			
	30 (1.18)			
	mm (in.)			
				
	A	*4	-0°35' +/- 45' (-0.58° +/- 0.75°)*7 -0°26' +/- 45' (-0.43° +/- 0.75°)*8 -0°23' +/- 45' (-0.38° +/- 0.75°)*9	-1°27' +/- 30' (-1.45° +/- 0.5°)*7 -1°26' +/- 30' (-1.43° +/- 0.5°)*8 -1°25' +/- 30' (-1.42° +/- 0.5°)*9
		*5	-0°36' +/- 45' (-0.60° +/- 0.75°)*7 -0°26' +/- 45' (-0.43° +/- 0.75°)*8	-1°27' +/- 30' (-1.45° +/- 0.5°)*7 -1°26' +/- 30' (-1.43° +/- 0.5°)*8
		*6	-0°35' +/- 45' (-0.58° +/- 0.75°)	-1°27' +/- 30' (-1.45° +/- 0.5°)
	B	*4	12°33' (12.55°)*7 12°13' (12.22°)*8 12°05' (12.08°)*9	-
		*5	12°35' (12.58°)*7 12°13' (12.22°)*8	-
		*6	12°33' (12.55°)	-
	C	*4	2°48' +/- 45' (2.80° +/- 0.75°)*7 2°41' +/- 45' (2.68° +/- 0.75°)*8 2°38' +/- 45' (2.63° +/- 0.75°)*9	-
		*5	2°54' +/- 45' (2.90° +/- 0.75°)*7 2°42' +/- 45' (2.70° +/- 0.75°)*8	-
		*6	2°48' +/- 45' (2.80° +/- 0.75°)	-
	D	*4	38°11' +/- 2° (38.18° +/- 2°)*7 38°30' +/- 2° (38.50° +/- 2°)*8 38°37' +/- 2° (38.62° +/- 2°)*9	-
		*5	38°09' +/- 2° (38.15° +/- 2°)*7 38°29' +/- 2° (38.48° +/- 2°)*8	-
		*6	38°11' +/- 2° (38.18° +/- 2°)	-
	E+F	*4	0°16' +/- 15' (0.27° +/- 0.25°)*7 0°12' +/- 17' (0.20° +/- 0.28°)*8 0°10' +/- 17' (0.17° +/- 0.28°)*9	
		*5	0°00' +/- 0°12' (0° +/- 0.2°)	0°16' +/- 16' (0.27° +/- 0.27°)*7 0°12' +/- 17' (0.20° +/- 0.28°)*8
		*6	0°16' +/- 16' (0.27° +/- 0.27°)	
G-H mm (in.)	*4	2.7 +/- 2.5 (0.11 +/- 0.098)*7 2.0 +/- 2.8 (0.079 +/- 0.11)*8 1.7 +/- 2.8 (0.067 +/- 0.11)*9		
	*5	0 +/- 2.0 (0 +/- 0.08)	2.7 +/- 2.7 (0.11 +/- 0.11)*7 2.0 +/- 2.8 (0.079 +/- 0.11)*8	
	*6	2.8 +/- 2.7 (0.11 +/- 0.11)		

*1: w/o ABS *2: w/ ABS *3: When the brake pedal is depressed with the force of 294 N (30 kgf, 66 lbf) while the engine is running. *4: for TMC Made *5: for TDB, TDV Made
*6: for Kuozui Made *7: Normal *8: Rough Road Package +15 mm (+0.591 in.) *9: Rough Road Package +20 mm (+0.787 in.) *10: 1ZR-FE, 2ZR-FE *11: 3ZR-FBE

COROLLA

NZE141
ZZE141, 142
ZRE141, 142, 143

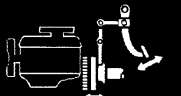

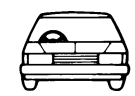
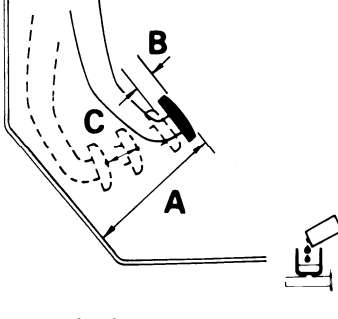
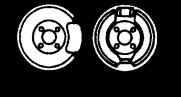


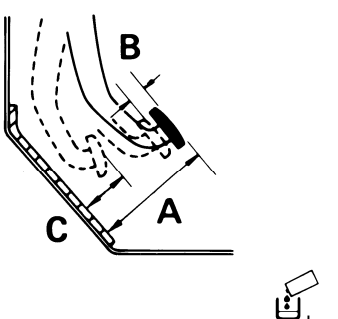
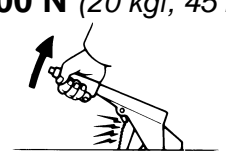
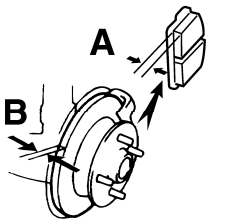
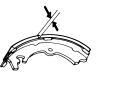
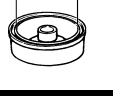

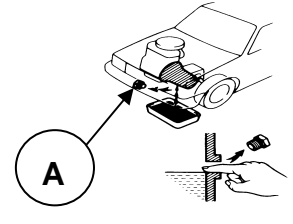


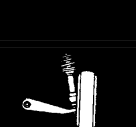
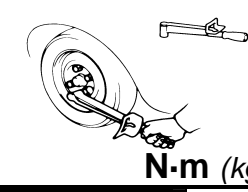

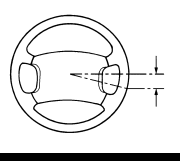
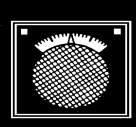

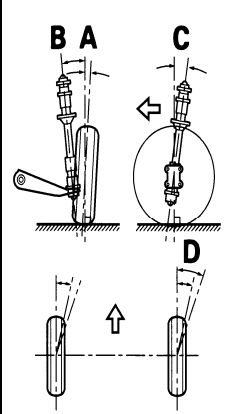
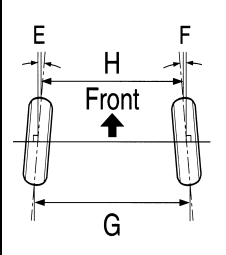
	195/65R15 91H 205/55R16 91V					
kPa (kgf/cm ² , psi)	210 (2.1, 30)		210 (2.1, 30)			
	NZE, ZZE, ZRE					
	20°C (68°F)					
	1NZ-FE	1ZZ-FE	2ZR-FBE	3ZR-FBE	1ZR-FE	2ZR-FE
cm³ or cc (cu. in.)	1496 (91.3)	1794 (109.5)	1798 (109.7)	1986 (121.2)	1598 (97.5)	1798 (109.7)
98 N (10 kgf, 22.0 lbf)	11 to 13 (0.43 to 0.51)		7.6 to 10.0 (0.300 to 0.393)			
	※245 to 392 (25 to 40, 55 to 88)		※550 to 750 (57 to 76, 123.7 to 168.6)			
mm (in.) N (kgf, lbf)	-		-			
	DENSO	SK16R11 *1 K16R-U *2	K16R-U11	FC22HR9- G	FC22HR9 FC22HR9- G	SC20HR11
	NGK	IFR5A11 *1 BKR5EYA *2	BKR5EYA- 11	-	-	-
	A	1.0 to 1.1 (0.0394 to 0.0433)*1 0.7 to 0.8 (0.0276 to 0.0315)*2	1.0 to 1.1 (0.0394 to 0.0433)	0.8 to 0.9 (0.0315 to 0.0354)		1.0 to 1.1 (0.0394 to 0.0433)
	8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)					
BTDC						

		0.15 to 0.25 (0.006 to 0.010)	0.15 to 0.25 (0.0059 to 0.0098)	-		
mm (in.)		0.25 to 0.35 (0.010 to 0.014)	0.25 to 0.35 (0.0098 to 0.0138)	-		
		550 to 650	650 to 750	600 to 700	625 to 725	600 to 700
rpm		980 (10.0, 142)	1300 (13.3, 189)	1373 (14.0, 199)	1590 (16.2, 231)	1373 (14.0, 199)
kPa (kgf/cm ² , psi)		↑ 784 (8.0, 14)	↑ 1000 (10.2, 145)	↑ 1079 (11.0, 157)	↑ 1225 (12.5, 178)	↑ 1079 (11.0, 157)
		↓ 98 (1.0, 14)	↓ 100 (1.0, 15)	↓ 98 (1.0, 14.2)	↓ 100 (1.0, 15)	↓ 98 (1.0, 14.2)
		↑ 29 (0.3, 4.3)				↑ 25 (0.3, 3.6)
kPa (kgf/cm ² , psi)		3000 rpm	150 to 550 (1.5 to 5.6, 22 to 80)	294 to 539 (3.0 to 5.5, 43 to 78)	150 to 400 (1.5 to 4.1, 22 to 58)	
		1NZ-FE	1ZZ-FE	2ZR-FBE	3ZR-FBE	1ZR-FE 2ZR-FE
liters (US qts, Imp.qts)		3.4 (3.6, 3.0)	4.0 (4.2, 3.5)	3.9 (4.1, 3.4)		
		3.7 (3.9, 3.3)	4.2 (4.4, 3.7)			
liters (US qts, Imp.qts)	A	SAE 10W-30: API grade SM		15W-40 and 20W-50: API grade SL or SM multigrade engine oil		
		5W-30 and 10W-30: API grade SL "energy-conserving", SM "energy-conserving" or ILSAC*3 multigrade engine oil		0W-20, 5W-30 and 10W-30: API grade SL "energy-conserving", SM "energy-conserving" or ILSAC*3 multigrade engine oil		
N-m (kgf-cm, ft-lbf)	A	38 (382, 27)	37 (377, 27)			
liters (US qts, Imp.qts)		5.2 (5.5, 4.6)	5.7 (6.0, 5.0)	5.6 (5.9, 4.9)*4 5.5 (5.8, 4.8)*5	5.5 (5.8, 4.8)	5.6 (5.9, 4.9)*4 5.5 (5.8, 4.8)*5

*1: w/ Air Fuel Ratio Sensor (for Sensor 1) *2: w/ Heated Oxygen Sensor (for Sensor 1) *3: International Lubricant Standardization and Approval Committee

*4: for MT *5: for AT

			
 mm (in.)	A	147.2 to 157.2 (5.795 to 6.189)	158.1 to 168.1 (6.224 to 6.618)
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	↑ 25 (0.984)	
		SAE J1703 or FMVSS No.116 DOT3	
			
 mm (in.)	A	141.4 to 151.4 (5.57 to 5.96)	146.1 to 156.1 (5.75 to 6.15)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*3	↑ 85 (3.35)*1 ↑ 81 (3.19)*2	↑ 87 (3.43)*1 ↑ 83 (3.27)*2
		SAE J1703 or FMVSS No. 116 DOT3	
 200 N (20 kgf, 45 lbf)		6 to 9	
 mm (in.)	A	↑ 1.0 (0.0394)	
	B	↑ 19.0 (0.748)	↑ 7.5 (0.295)
	mm (in.)	↑ 1.0 (0.0394)	
	mm (in.)	↓ 229.6 (9.04)	
		CE	
 liters (US qts, Imp.qts)		2.5 (2.6, 2.2)	
		API GL-4 or 5 SAE 75W-90	
N-m (kgf-cm, ft-lbf)	A	49 (499, 36)	

		CE	
 N-m (kgf-cm, ft-lbf)		103 (1050, 76)	
		CE	
 mm (in.)		↓ 30 (1.18)	
			
	A	-0°35' +/- 45' (-0.58° +/- 0.75°)*4 -0°26' +/- 45' (-0.43° +/- 0.75°)*5 -0°23' +/- 45' (-0.38° +/- 0.75°)*6	-1°27' +/- 30' (-1.45° +/- 0.5°)*4 -1°26' +/- 30' (-1.43° +/- 0.5°)*5 -1°25' +/- 30' (-1.42° +/- 0.5°)*6
		B	12°33' (12.55°)*4 12°13' (12.22°)*5 12°05' (12.08°)*6
	C	2°48' +/- 45' (2.80° +/- 0.75°)*4 2°41' +/- 45' (2.68° +/- 0.75°)*5 2°38' +/- 45' (2.63° +/- 0.75°)*6	-
	D	38°11' +/- 2° (38.18° +/- 2°)*4 38°30' +/- 2° (38.50° +/- 2°)*5 38°37' +/- 2° (38.62° +/- 2°)*6	-
	E+F	0°00' +/- 0°12' (0° +/- 0.2°)	0°16' +/- 15' (0.27° +/- 0.25°)*4 0°12' +/- 17' (0.20° +/- 0.28°)*5 0°10' +/- 17' (0.17° +/- 0.28°)*6
	G-H mm (in.)	0 +/- 2.0 (0 +/- 0.08)	2.7 +/- 2.5 (0.11 +/- 0.098)*4 2.0 +/- 2.8 (0.079 +/- 0.11)*5 1.7 +/- 2.8 (0.067 +/- 0.11)*6

*1: w/o ABS *2: w/ ABS *3: When the brake pedal is depressed with the force of 294 N (30 kgf, 66 lbf) while the engine is running.

*4: Normal *5: Rough Road Package +15 mm (+0.591 in.) *6: Rough Road Package +20 mm (+0.787 in.)

COROLLA Diesel



CE140

	195/65R15 91H	210 (2.1, 30)	210 (2.1, 30)
kPa (kgf/cm ² , psi)			
		CE	
		1.25 to 1.29	
20°C (68°F)			
		2C	
cm ³ or cc (cu. in.)		1975 (120.5)	
98 N (10 kgf, 22.0 lbf)		12.0 to 14.0 (0.47 to 0.55) ※197 to 392 (20 to 40, 44 to 88)	
		13.5 to 16.5 (0.53 to 0.65) ※196 to 392 (20 to 40, 44 to 88)	
mm (in.) N (kgf, lbf)			
		0.20 to 0.30 (0.00787 to 0.0118)	
		0.25 to 0.35 (0.00984 to 0.0138)	
mm (in.)			
		5.0	
secs			
	20°C (68°F)	0.72	
ohm			
		850 to 950	
		5300 to 5400*1 5100 to 5200*2	
rpm			

		2.9 (30, 421)
		↑ 2.5 (25, 356)
MPa (kgf/cm ² , psi)		↓ 0.49 (5.0, 71)
		↑ 29 (0.3, 4.3)
	4500 rpm	↑ 245 to 588 (2.5 to 6.0, 36 to 85)
kPa (kgf/cm ² , psi)		
		2C
		4.4 (4.7, 3.9)
		5.1 (5.4, 4.5)
		G-DLD-1 API grade CF-4 API grade CF API grade CE API grade CD SAE 20W-50, 15W-40, 10W-30 and 5W-30
A liters (US qts, Imp. qts)		
N·m (kgf-cm, ft-lbf)	A	34 (347, 25)
		5.9 (6.2, 5.2)
liters (US qts, Imp. qts)		

*1: w/o High Altitude Compensator *2: w/ High Altitude Compensator