


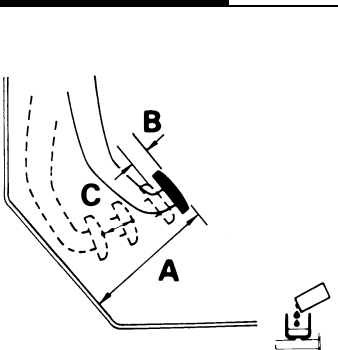
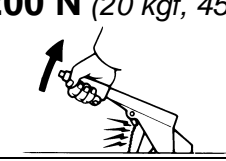
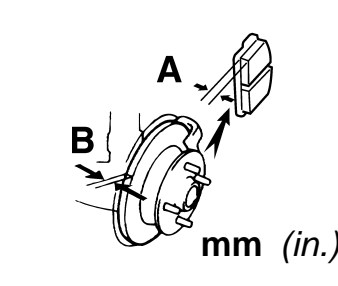
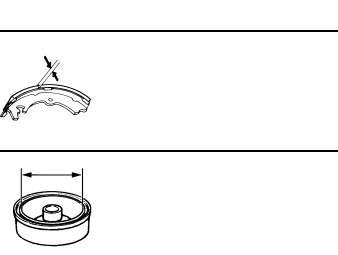




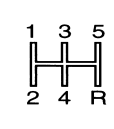


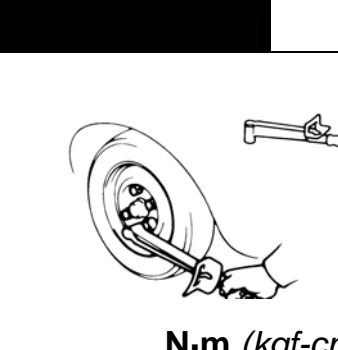
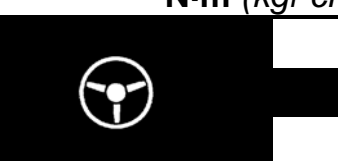
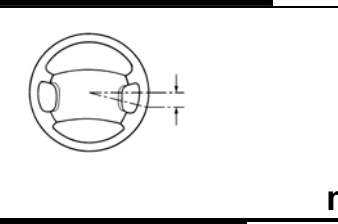
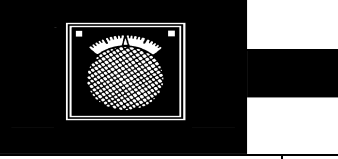
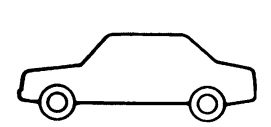
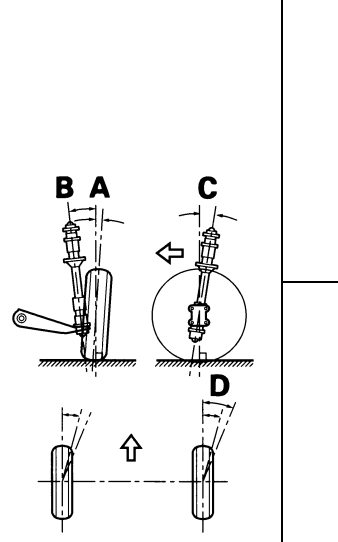
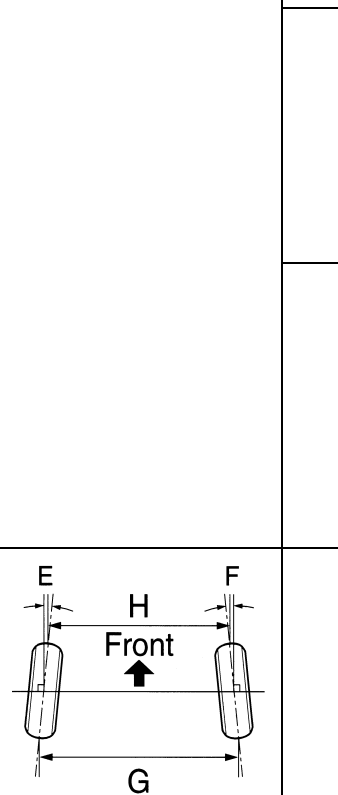
	A	157.7 to 167.7 (6.209 to 6.602)	168.5 to 178.5 (6.634 to 7.028)
	B	1 to 5 (0.039 to 0.197)	
	C	25 (0.98)	
mm (in.)		SAE J1703 or FMVSS No.116 DOT3	
			
	A	141.4 to 151.4 (5.567 to 5.961)	146.1 to 156.1 (5.752 to 6.146)
	B	1 to 6 (0.039 to 0.236)	
	C*3	*1 85 (3.35) *2 81 (3.19)	*1 87 (3.43) *2 83 (3.27)
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3	
200 N (20 kgf, 45 lbf) 		6 to 9	
	A	1.0 (0.039)	
	B	19.0 (0.748)	7.5 (0.295)
mm (in.)		1.0 (0.039)	
		229.6 (9.04)	
		1.0 (0.039)	
		229.6 (9.04)	
		ZZE	NZE
	A	1.9 (2.0, 1.7)	-
		API GL-4 or 5 SAE75W-90	-
liter (US qts, Imp.qts)			
N-m (kgf-cm, ft-lbf)	A	39 (400, 29)	-
	A	2.9 (3.1, 2.6)	
		Toyota Genuine ATF WS	
liter (US qts, Imp.qts)	A	49 (499, 36)	
N-m (kgf-cm, ft-lbf)	A	49 (499, 36)	

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

*1 : w/o ABS *2 : w/ ABS *3 : When 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. *6 : Rough Road Package + 20 mm.

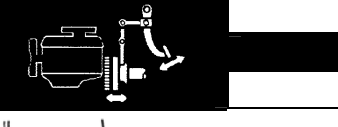


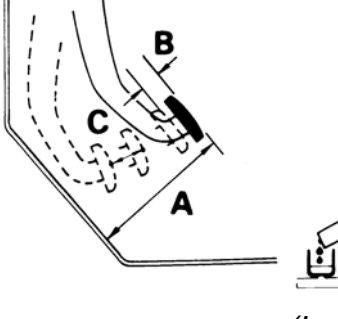



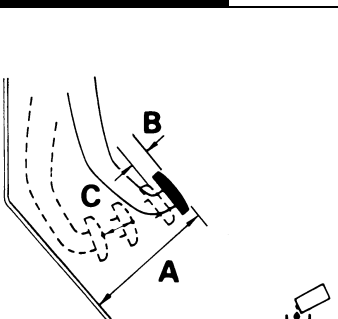
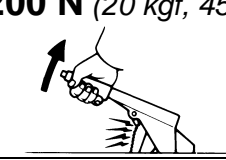
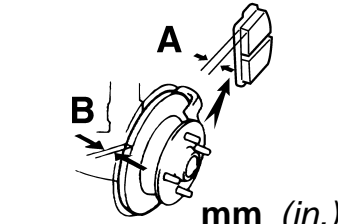
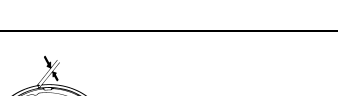




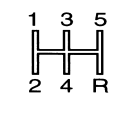
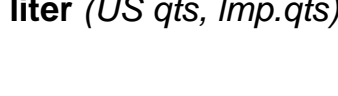
COROLLA


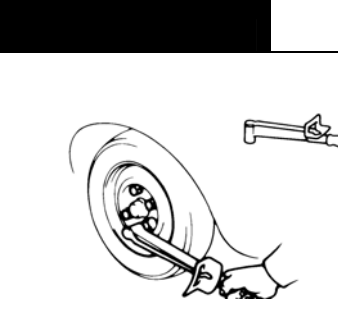

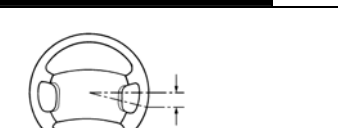

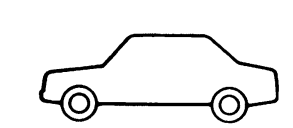

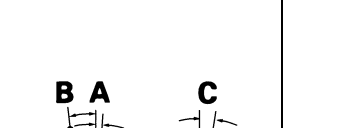
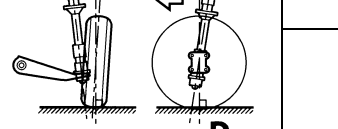
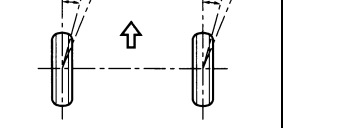


NZE141
ZZE141, 142



km/h (mph)				
	195/65R15 91H 195/65R15 91S 205/55R16 91V	210 (2.1, 30)		210 (2.1, 30)
kPa (kgf/cm ² or bar, psi)				
		NZE ZZE		
		1.25 to 1.29		
20°C (68°F)				
		1NZ-FE	1ZZ-FE	3ZZ-FE
cm ³ or cc (cu. in.)		1496 (91.3)	1794 (109.5)	1598 (97.5)
98 N (10kgf) 		-		
11.0 to 13.0 (0.43 to 0.51) * 245 to 392 (25 to 40)				
mm (in.) N (kgf)				
	DENSO	K16R-U	K16R-U11	
	NGK	BKR5EYA	BKR5EYA-11	
	A mm (in.)	0.7 to 0.8 (0.028 to 0.032)	1.0 to 1.1 (0.039 to 0.043)	
		8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)		
BTDC				

		0.15 to 0.25 (0.0059 to 0.0098)	
mm (in.)		0.25 to 0.35 (0.0098 to 0.0138)	
		550 to 650	650 to 750
	rpm		
		980 (10.0, 142)	1300 (13.3, 189)
		784 (8.0, 114)	1000 (10.2, 145)
		98 (1.0, 14)	100 (1.0, 15)
		29 (0.3, 4.3)	
	3000 rpm	150 to 550 (1.5 to 5.6, 22 to 80)	294 to 539 (3.0 to 5.5, 43 to 78)
		1NZ-FE	1ZZ-FE 3ZZ-FE
		3.4 (3.6, 3.0)	4.0 (4.2, 3.5)
		3.7 (3.9, 3.3)	4.2 (4.4, 3.7)
A liter (US qts, Imp. qts)		10W-30: API grade SM	5W-30: API grade SM
A N-m (kgf-cm, ft-lbf)			10W-10: API grade SM
	A	38 (382, 27)	37 (377, 27)
		5.2 (5.5, 4.6)	5.7 (6.0, 5.0)
liter (US qts, Imp. qts)			

			
	A	147.2 to 157.2 (5.795 to 6.189)	158.1 to 168.1 (6.224 to 6.618)
	B	1 to 5 (0.039 to 0.197)	
	C	25 (0.98)	
mm (in.)		SAE J1703 or FMVSS No.116 DOT3	
			
	A	141.4 to 151.4 (5.567 to 5.961)	146.1 to 156.1 (5.752 to 6.146)
	B	1 to 6 (0.039 to 0.236)	
	C*1	81 (3.19)	83 (3.27)
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3	
200 N (20 kgf, 45 lbf) 		6 to 9	
	A	1.0 (0.039)	
	B	19.0 (0.748)	7.5 (0.295)
mm (in.)		1.0 (0.039)	
		229.6 (9.04)	
		1.0 (0.039)	
		229.6 (9.04)	
		CE	
	A	2.5 (2.6, 2.2)	
	liter (US qts, Imp.qts)		
		API GL-4 or 5 SAE75W-90	
N·m (kgf-cm, ft-lbf)	A	49 (499, 36)	

		CE	
	103 (1050, 76)		
	N·m (kgf-cm, ft-lbf)		
		CE	
	30 (1.18)		
	mm (in.)		
			
	A	^{*2} -0°35' +/- 45' (-0.58° +/- 0.75°)	^{*2} -1°27' +/- 30' (-1.45° +/- 0.5°)
		^{*3} -0°26' +/- 45' (-0.43° +/- 0.75°)	^{*3} -1°26' +/- 30' (-1.43° +/- 0.5°)
		^{*4} -0°23' +/- 45' (-0.38° +/- 0.75°)	^{*4} -1°25' +/- 30' (-1.42° +/- 0.5°)
	B	^{*2} 12°33' (12.55°)	
		^{*3} 12°13' (12.22°)	-
		^{*4} 12°05' (12.08°)	
	C	^{*2} 2°48' +/- 45' (2.8° +/- 0.75°)	
		^{*3} 2°41' +/- 45' (2.68° +/- 0.75°)	-
		^{*4} 2°38' +/- 45' (2.63° +/- 0.75°)	
	D	^{*2} 38°11' +/- 2° (38.18° +/- 2°)	
		^{*3} 38°30' +/- 2° (38.50° +/- 2°)	-
		^{*4} 38°37' +/- 2° (38.62° +/- 2°)	
	E+F	0°00' +/- 0°12' (0° +/- 0.2°)	^{*2} 0°16' +/- 15' (0.27° +/- 0.25°)
			^{*3} 0°12' +/- 17' (0.20° +/- 0.28°)
	G-H mm (in.)	0 +/- 2.0 (0 +/- 0.08)	^{*3} 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)

*1 : When brake pedal is depressed with the force of 294 N (30 kgf, 66 lbf) while the engine is running. *2 : Normal. *3 : Rough Road Package + 15 mm.

*4 : Rough Road Package + 20 mm.

COROLLA

Diesel

CE140



	195/65R15 91H 195/65R15 91S	210 (2.1, 30)	210 (2.1, 30)
kPa (kgf/cm ² or bar, psi)			
		CE	
		1.25 to 1.29	
20° C (68° F)			
		2C	
cm³ or cc (cu. in.)		1975 (120.5)	
	98 N·m (999kgf-cm, 72ft-lbf)	12.0 to 14.0 (0.47 to 0.55) * 197 to 392 (20 to 40)	
	mm (in.) N (kgf)	13.5 to 16.5 (0.53 to 0.65) * 196 to 392 (20 to 40)	
	0.20 to 0.30 (0.008 to 0.012)		
	0.25 to 0.35 (0.010 to 0.014)		
	secs	5.0	
	20°C (68°F) ohm	0.72	
	rpm	850 to 950	
		*1 5300 to 5400 *2 5100 to 5200	

		2900 (30, 421)
		2500 (25, 356)
		490 (5.0, 71)
		29 (0.3, 4.3)
	4500 rpm	245 to 588 (2.5 to 6.0, 36 to 85)
		2C
		4.4 (4.7, 3.9)
		5.1 (5.4, 4.5)
	liter (US qts, Imp.qts)	20W-50, 15W-40, 10W-30 and 5W30: G-DLD-1 API grade CF-4 API grade CF API grade CE API grade CD
	N·m (kgf-cm, ft-lbf)	34 (347, 25)
	liter (US qts, Imp.qts)	5.9 (6.2, 5.2)

*1 : w/o HAC *2 : w/ HAC

TOYOTA MOTOR CORPORATION Technical Service Division