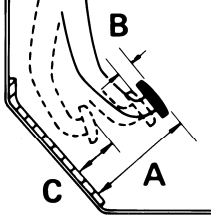
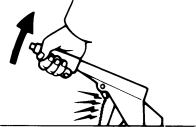
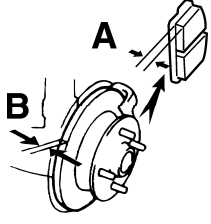
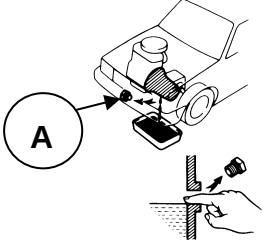
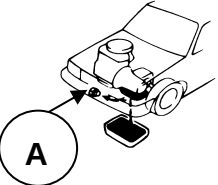
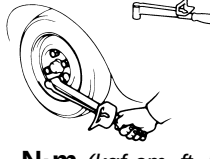
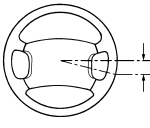
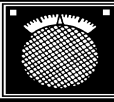
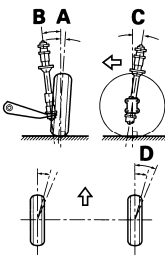
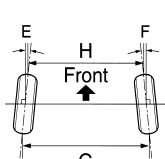
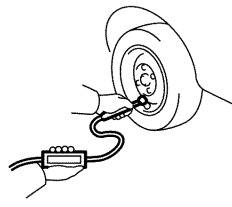
  mm (in.)	A	135.5 to 145.5 (5.33 to 5.73)*2 143.6 to 153.6 (5.65 to 6.05)*3	153.4 to 163.4 (6.04 to 6.43)*2 162.3 to 172.3 (6.39 to 6.78)*3
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	 25 (0.984)	
		SAE J1703 or FMVSS No. 116 DOT3 SAE J1704 or FMVSS No. 116 DOT4	
			
  mm (in.)	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	 63 (2.48)	 73 (2.87)
		SAE J1704 or FMVSS No. 116 DOT4	
 200 N (20 kgf, 45 lbf)		5 to 8	
 mm (in.)	A	  1.0 (0.0394)	
	B	 23.0 (0.906)	 8.0 (0.315)
		NRE	ZRE
 liters (US qts, Imp.qts) N·m (kgf-cm, ft-lbf)		2.4 (2.5, 2.1)	
		“TOYOTA Genuine Manual Transmission Gear Oil LV” or “API GL-4 and SAE 75W”	
	A	45 (459, 33)	
 liters (US qts, Imp.qts) N·m (kgf-cm, ft-lbf)		-	7.64 (8.1, 6.7)
		-	Toyota Genuine CVT fluid FE
	A	-	40 (408, 30)

		NRE, ZRE			
 N·m (kgf-cm, ft.-lbf)		103 (1050, 76)			
		NRE, ZRE			
 mm (in.)					
					
	A	-0°13' +/- 45' (-0.22° +/- 0.75°)	-0°06' +/- 45' (-0.10° +/- 0.75°)	-1°00' +/- 45' (-1.00° +/- 0.75°)*4 -1°28' +/- 30' (-1.47° +/- 0.50°)*5	-0°40' +/- 45' (-0.67° +/- 0.75°)*4 -1°24' +/- 30' (-1.40° +/- 0.50°)*5
	B	12°14' (12.23°)	11°48' (11.80°)*3 11°46' (11.77°)*2	-	-
	C	5°45' +/- 45' (5.75° +/- 0.75°)*3*6*7 5°47' +/- 45' (5.78° +/- 0.75°)*3*9 5°50' +/- 45' (5.83° +/- 0.75°)*2*6 5°51' +/- 45' (5.85° +/- 0.75°)*2*7 5°53' +/- 45' (5.88° +/- 0.75°)*2*8	5°27' +/- 45' (5.45° +/- 0.75°)*3*6 5°28' +/- 45' (5.47° +/- 0.75°)*3*7 5°33' +/- 45' (5.55° +/- 0.75°)*2*6 5°34' +/- 45' (5.57° +/- 0.75°)*2*7	-	-
	D	39°11' +/- 2° (39.18° +/- 2°)*6*7 37°23' +/- 2° (37.38° +/- 2°)*8*9	39°38' +/- 2° (39.63° +/- 2°)*3 39°40' +/- 2° (39.67° +/- 2°)*2	-	-
	E+F	0°11' +/- 0°11' (0.18° +/- 0.18°)		0°09' +/- 10' (0.15° +/- 0.17°)*4 0°15' +/- 16' (0.25° +/- 0.27°)*5	0°02' +/- 10' (0.03° +/- 0.17°)*4 0°06' +/- 16' (0.10° +/- 0.27°)*5
	G-H mm (in.)	2.0 +/- 2.0 (0.0787 +/- 0.0787)		1.8 +/- 2.0 (0.0709 +/- 0.0787)*4 2.9 +/- 3.0 (0.114 +/- 0.118)*5	0.5 +/- 2.0 (0.0197 +/- 0.0787)*4 1.2 +/- 3.0 (0.0472 +/- 0.118)*5
					
 kPa (kgf/cm², psi)		260 (2.6, 38)*10 230 (2.3, 33)*11			

*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: for 1NR-FE *3: for 1ZR-FAE

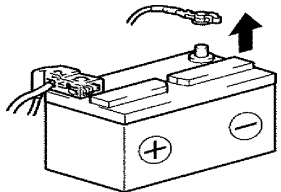
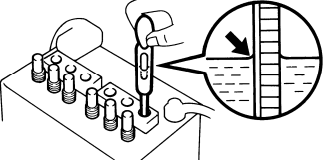
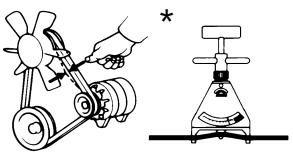
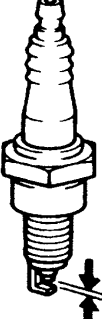
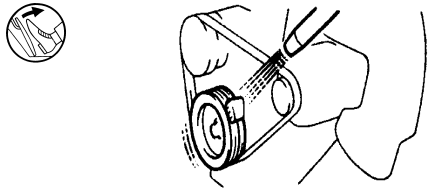
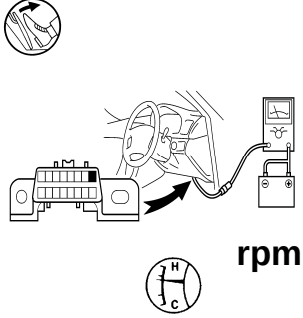
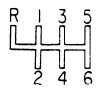
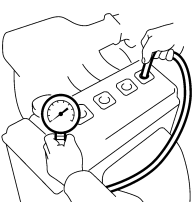
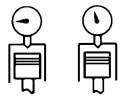
*4: for Double Wishbone Type Suspension *5: for Torsion Beam Type Suspension *6: Tire Size: 195/65R15 *7: Tire Size: 205/55R16

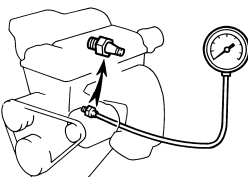
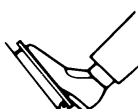
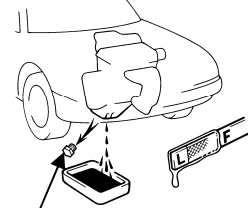
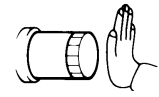
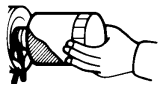
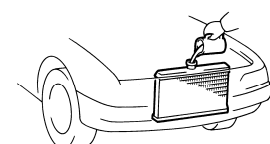
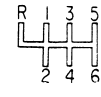
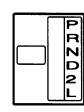
*8: Tire Size: 215/45R17 *9: Tire Size: 225/45R17 *10: For driving at over 160 km/h (100 mph) *11: For driving at under 160 km/h (100 mph)

AURIS

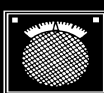
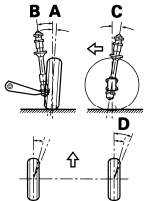
NRE180, ZRE185

2012/10 - 2013/06

		NRE, ZRE	
 *1		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System	
 20°C (68 °F)		1.25 to 1.29	
		1NR-FE	1ZR-FAE
cm ³ or cc (cu. in.)		1329 (81.1)	1598 (97.5)
 * mm (in.) N (kgf,lbf)		-	7.6 to 10.0 (0.300 to 0.393) *550 to 750 (56 to 76, 124 to 168)
 A	DENSO	SC20HR11	SC20HR11 SC16HR11
	A mm (in.)	1.0 to 1.1 (0.0394 to 0.0433)	
 BTDC		8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)	
 rpm		600 to 700	580 to 680
		-	600 to 700
  kPa (kgf/cm ² , psi)		1200 (12.2, 174)	1373 (14.0, 199)
		900 (9.2, 131)	1079 (11.0, 157)
		98 (1.0, 14.2)	

		 30 (0.3, 4.4)	 25 (0.3, 3.6)
kPa (kgf/cm ² , psi)	3000 rpm 	 150 to 550 (1.5 to 5.6, 22 to 80)	
		1NR-FE	1ZR-FAE
 A		3.2 (3.4, 2.8)	3.9 (4.1, 3.4)
		3.4 (3.6, 3.0)	4.2 (4.4, 3.7)
	liters (US qts, Imp.qts) 0W-20, 5W-20, 5W-30 and 10W-30: API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*2 multi grade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multi grade engine oil		
N·m (kgf-cm, ft.-lbf)	A	30 (306, 22)	37 (377, 27)
 liters (US qts, Imp.qts)		5.7 (6.0, 5.0)*3 4.7 (5.0, 4.1)*4	5.6 (5.9, 4.9)
		-	5.8 (6.1, 5.1)

*1: Initialization required. Refer to the repair manual for the initialization procedures.
*2: ILSAC: International Lubricant Standardization and Approval Committee. *3: w/ Exhaust Heat Recirculation System
*4: w/o Exhaust Heat Recirculation System

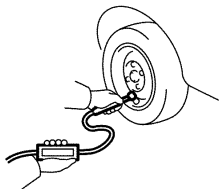
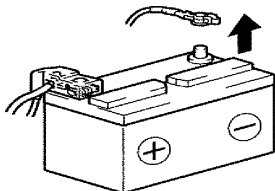
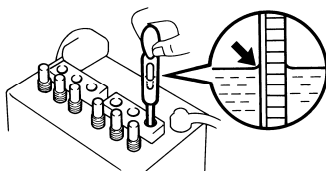
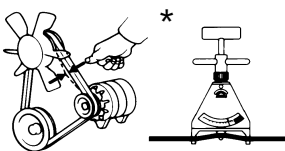
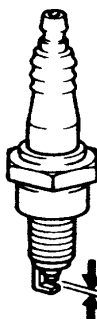
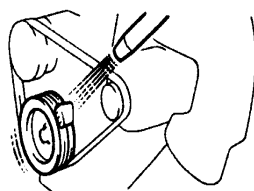
							
					Rough Road Package	Rough Road Package	
	A	*12	-0°13' +/- 45' <i>(-0.22 ° +/- 0.75 °)</i>	-0°06' +/- 45' <i>(-0.10 ° +/- 0.75 °)</i>	-1°00' +/- 45' <i>(-1.00° +/- 0.75°)*6</i> -1°28' +/- 30' <i>(-1.47° +/- 0.50°)*7</i>	-0°40' +/- 45' <i>(-0.67° +/- 0.75°)*6</i> -1°24' +/- 30' <i>(-1.40° +/- 0.50°)*7</i>	
		*13	-0°13' +/- 45' <i>(-0.22 ° +/- 0.75 °)</i>	-	-1°00' +/- 45' <i>(-1.00° +/- 0.75°)*6</i> -1°27' +/- 30' <i>(-1.45° +/- 0.50°)*7</i>	-	
		*14	-0°13' +/- 45' <i>(-0.22 ° +/- 0.75 °)*8</i> -0°14' +/- 45' <i>(-0.23 ° +/- 0.75 °)*9</i>	-0°05' +/- 45' <i>(-0.08 ° +/- 0.75 °)*8</i> -0°06' +/- 45' <i>(-0.10 ° +/- 0.75 °)*9</i>	-1°28' +/- 30' <i>(-1.47° +/- 0.50°)</i>	-1°24' +/- 30' <i>(-1.40° +/- 0.50°)</i>	
	B	*12	12°14' <i>(12.23 °)</i>	11°48' <i>(11.80 °)*3</i> 11°46' <i>(11.77 °)*2</i>	-	-	
		*13	12°14' <i>(12.23 °)</i>	-	-	-	
		*14	12°14' <i>(12.23 °)</i>	11°46' <i>(11.77 °)</i>	-	-	
	C	*12	5°45' +/- 45' <i>(5.75 ° +/- 0.75 °)*3*8*9</i> 5°47' +/- 45' <i>(5.78 ° +/- 0.75 °)*3*11</i> 5°50' +/- 45' <i>(5.83 ° +/- 0.75 °)*2*8</i> 5°51' +/- 45' <i>(5.85 ° +/- 0.75 °)*2*9</i> 5°53' +/- 45' <i>(5.88 ° +/- 0.75 °)*2*10</i>	5°27' +/- 45' <i>(5.45 ° +/- 0.75 °)*3*8</i> 5°28' +/- 45' <i>(5.47 ° +/- 0.75 °)*3*9</i> 5°33' +/- 45' <i>(5.55 ° +/- 0.75 °)*2*8</i> 5°34' +/- 45' <i>(5.57 ° +/- 0.75 °)*2*9</i>	-	-	
		*13	5°51' +/- 45' <i>(5.85 ° +/- 0.75 °)*3*8</i> 5°52' +/- 45' <i>(5.87 ° +/- 0.75 °)*3*9</i> 5°53' +/- 45' <i>(5.88 ° +/- 0.75 °)*3*11</i> 5°55' +/- 45' <i>(5.92 ° +/- 0.75 °)*2*8</i> 5°56' +/- 45' <i>(5.93 ° +/- 0.75 °)*2*9</i> 5°57' +/- 45' <i>(5.95 ° +/- 0.75 °)*2*10</i>	-	-	-	
		*14	5°52' +/- 45' <i>(5.87 ° +/- 0.75 °)*3*4*8</i> 5°53' +/- 45' <i>(5.88 ° +/- 0.75 °)*3*4*9</i> 5°51' +/- 45' <i>(5.85 ° +/- 0.75 °)*5*8</i> 5°52' +/- 45' <i>(5.87 ° +/- 0.75 °)*5*9</i> 5°54' +/- 45' <i>(5.90 ° +/- 0.75 °)*2</i>	5°35' +/- 45' <i>(5.58 ° +/- 0.75 °)*3*4*8</i> 5°36' +/- 45' <i>(5.60 ° +/- 0.75 °)*3*4*9</i> 5°34' +/- 45' <i>(5.57 ° +/- 0.75 °)*5*8</i> 5°35' +/- 45' <i>(5.58 ° +/- 0.75 °)*5*9</i> 5°37' +/- 45' <i>(5.62 ° +/- 0.75 °)*2</i>	-	-	
		D	*12	39°11' +/- 2° <i>(39.18 ° +/- 2 °)*8*9</i> 37°23' +/- 2° <i>(37.38 ° +/- 2 °)*10*11</i>	39°38' +/- 2° <i>(39.63 ° +/- 2 °)*3</i> 39°40' +/- 2° <i>(39.67 ° +/- 2 °)*2</i>	-	-
			*13	39°11' +/- 2° <i>(39.18 ° +/- 2 °)*8*9</i> 37°23' +/- 2° <i>(37.38 ° +/- 2 °)*10*11</i>	-	-	-
			*14	39°11' +/- 2° <i>(39.18 ° +/- 2 °)</i>	39°40' +/- 2° <i>(39.67 ° +/- 2 °)</i>	-	-
	E+F	*12	0°11' +/- 0°11' <i>(0.18 ° +/- 0.18 °)</i>		0°09' +/- 10' <i>(0.15 ° +/- 0.17 °)*6</i> 0°15' +/- 16' <i>(0.25 ° +/- 0.27 °)*7</i>	0°02' +/- 10' <i>(0.03 ° +/- 0.17 °)*6</i> 0°06' +/- 16' <i>(0.10 ° +/- 0.27 °)*7</i>	
		*13	0°11' +/- 0°11' <i>(0.18 ° +/- 0.18 °)</i>		0°09' +/- 10' <i>(0.15 ° +/- 0.17 °)*6</i> 0°14' +/- 16' <i>(0.23 ° +/- 0.27 °)*7</i>	-	
		*14	0°11' +/- 0°11' <i>(0.18 ° +/- 0.18 °)</i>		0°15' +/- 16' <i>(0.26 ° +/- 0.27 °)</i>	0°06' +/- 16' <i>(0.11 ° +/- 0.27 °)</i>	
G-H mm (in.)		*12	2.0 +/- 2.0 <i>(0.0787 +/- 0.0787)</i>		1.8 +/- 2.0 <i>(0.0709 +/- 0.0787)*6</i> 2.9 +/- 3.0 <i>(0.114 +/- 0.118)*7</i>	0.5 +/- 2.0 <i>(0.0197 +/- 0.0787)*6</i> 1.2 +/- 3.0 <i>(0.0472 +/- 0.118)*7</i>	
		*13	2.0 +/- 2.0 <i>(0.0787 +/- 0.0787)</i>		1.8 +/- 2.0 <i>(0.0709 +/- 0.0787)*6</i> 2.8 +/- 3.0 <i>(0.110 +/- 0.118)*7</i>	-	
		*14	2.0 +/- 2.0 <i>(0.0787 +/- 0.0787)</i>		2.9 +/- 3.0 <i>(0.114 +/- 0.118)</i>	1.2 +/- 3.0 <i>(0.0472 +/- 0.118)</i>	

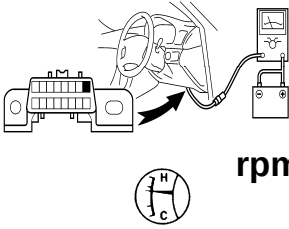
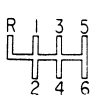
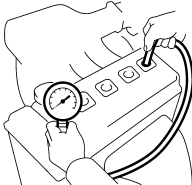
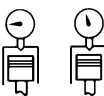
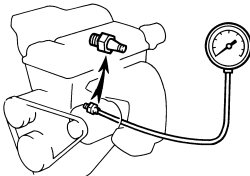
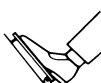
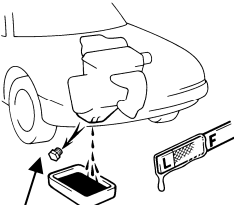
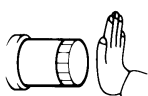
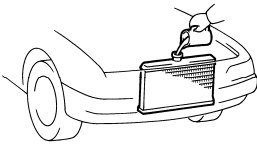
*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: for 1NR-FE *3: for 1ZR-FAE *4: for 1ZR-FE
*5: for 2ZR-FE *6: for Double Wishbone Type Suspension *7: for Torsion Beam Type Suspension *8: Tire Size: 195/65R15 *9: Tire Size: 205/55R16
*10: Tire Size: 215/45R17 *11: Tire Size: 225/45R17 *12: for Hatchback *13: for Wagon *14: for Sedan
*15: for Type A Brake Master Cylinder Sub-assembly *16: for Type B Brake Master Cylinder Sub-assembly *17: for Type A *18: for Type B

COROLLA/AURIS

NRE180, ZRE181,
ZRE182, ZRE185

2013/06 - 2015/05

					
 kPa (kgf/cm ² , psi)		260 (2.6, 38)*1 230 (2.3, 33)*2			
		NRE, ZRE			
 *3		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System (for Hatchback, Wagon)			
 20°C (68 °F)		1.25 to 1.29			
		1NR-FE	1ZR-FAE	1ZR-FE	2ZR-FE
cm³ or cc (cu. in.)		1329 (81.1)	1598 (97.5)	1598 (97.5)	1798 (109.7)
 N (kgf,lbf)		-	7.6 to 10.0 (0.300 to 0.393) *550 to 750 (57 to 76, 124 to 168)		
 DENSO		SC20HR11 SC16HR11			
 A		1.0 to 1.1 (0.0394 to 0.0433)			
  BTDC		8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)			

  rpm 		 600 to 700	580 to 680	600 to 700	
		 -	600 to 700	680 to 780	600 to 700
 kPa (kgf/cm², psi) 		 1200 <i>(12.2, 174)</i>	1373 <i>(14.0, 199)</i>		
		 900 <i>(9.2, 131)</i>	1079 <i>(11.0, 157)</i>		
		 98 <i>(1.0, 14.2)</i>			
 kPa (kgf/cm², psi)		 30 <i>(0.3, 4.4)</i>	 25 <i>(0.3, 3.6)</i>		
		3000 rpm 	 150 to 550 <i>(1.5 to 5.6, 22 to 80)</i>		
		1NR-FE	1ZR-FAE	1ZR-FE	2ZR-FE
 A		 3.2 <i>(3.4, 2.8)</i>	3.9 <i>(4.1, 3.4)</i>		
		 3.4 <i>(3.6, 3.0)</i>	4.2 <i>(4.4, 3.7)</i>		
		0W-20, 5W-20, 5W-30 and 10W-30: API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*4 multi grade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multi grade engine oil			
N·m <i>(kgf-cm, ft.-lbf)</i>		A	30 <i>(306, 22)</i>	37 <i>(377, 27)</i>	
 liters <i>(US qts, Imp.qts)</i>		 5.7 <i>(6.0, 5.0)*5</i> 4.7 <i>(5.0, 4.1)*6</i>	5.6 <i>(5.9, 4.9)</i>		
		 -	5.8 <i>(6.1, 5.1)</i>		

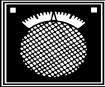
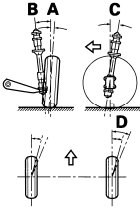
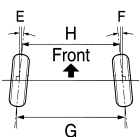
*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph)

*3: Initialization required. Refer to the repair manual for the initialization procedures. *4: ILSAC: International Lubricant Standardization and Approval Committee.

*5: w/ Exhaust Heat Recirculation System *6: w/o Exhaust Heat Recirculation System



	A	135.5 to 145.5 (5.33 to 5.73)*2 143.6 to 153.6 (5.65 to 6.05)*3*4*19	153.4 to 163.4 (6.04 to 6.43)*2 162.3 to 172.3 (6.39 to 6.78)*3*19
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	25 (0.984)	
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3*16*20 SAE J1704 or FMVSS No. 116 DOT4*15*20*	SAE J1704 or FMVSS No. 116 DOT4*20
	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	63 (2.48)*12*13 69 (2.72)*14	73 (2.87)*12*13 78 (3.07)*14
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3*16 SAE J1704 or FMVSS No. 116 DOT4*15	SAE J1704 or FMVSS No. 116 DOT4
		5 to 8*12*13 6 to 8*14	
	A	1.0 (0.0394)	
	B	23.0 (0.906)*17 19.0 (0.748)*18	8.0 (0.315)*17 7.5 (0.295)*18
mm (in.)			
		NRE	ZRE
		2.4 (2.5, 2.1)	
	A	“Toyota Genuine Manual Transmission Gear Oil LV GL-4 and SAE 75W” or “API GL-4 and SAE 75W”	
	A	45 (459, 33)	
liters (US qts, Imp.qts)			
		7.64 (8.1, 6.7)*21 7.5 (7.9, 6.6)*22	
	A	Toyota Genuine CVT fluid FE	
	A	40 (408, 30)	
liters (US qts, Imp.qts)			
		NRE, ZRE	
		103 (1050, 76)	
N·m (kgf-cm, ft.-lbf)			
		NRE, ZRE	
		30 (1.18)	
mm (in.)			

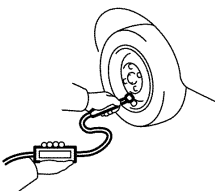
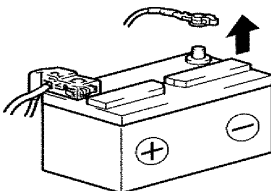
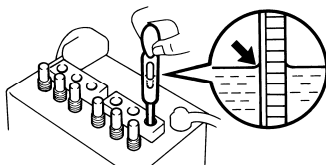
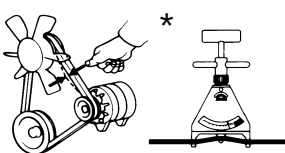
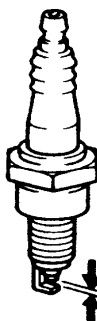
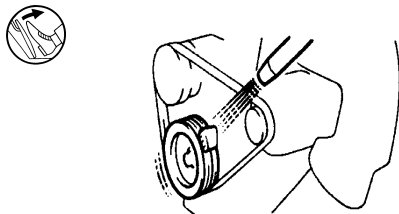
						
				Rough Road Package		Rough Road Package
	A	*12	-0°13' +/- 45' (-0.22 ° +/- 0.75 °)	-0°06' +/- 45' (-0.10 ° +/- 0.75 °)	-1°00' +/- 45' (-1.00° +/- 0.75°)*6 -1°28' +/- 30' (-1.47° +/- 0.50°)*7	-0°40' +/- 45' (-0.67° +/- 0.75°)*6 -1°24' +/- 30' (-1.40° +/- 0.50°)*7
		*13	-0°13' +/- 45' (-0.22 ° +/- 0.75 °)	-	-1°00' +/- 45' (-1.00° +/- 0.75°)*6 -1°27' +/- 30' (-1.45° +/- 0.50°)*7	-
		*14	-0°13' +/- 45' (-0.22 ° +/- 0.75 °)*8 -0°14' +/- 45' (-0.23 ° +/- 0.75 °)*9*10	-0°05' +/- 45' (-0.08 ° +/- 0.75 °)*8 -0°06' +/- 45' (-0.10 ° +/- 0.75 °)*9	-1°28' +/- 30' (-1.47° +/- 0.50°)	-1°24' +/- 30' (-1.40° +/- 0.50°)
	B	*12	12°14' (12.23 °)	11°48' (11.80 °)*3*19 11°46' (11.77 °)*2	-	-
		*13	12°14' (12.23 °)	-	-	-
		*14	12°14' (12.23 °)	11°46' (11.77 °)	-	-
	C	*12	5°45' +/- 45' (5.75 ° +/- 0.75 °)*3*8*9*19 5°47' +/- 45' (5.78 ° +/- 0.75 °)*3*11*19 5°50' +/- 45' (5.83 ° +/- 0.75 °)*2*8 5°51' +/- 45' (5.85 ° +/- 0.75 °)*2*9 5°53' +/- 45' (5.88 ° +/- 0.75 °)*2*10	5°27' +/- 45' (5.45 ° +/- 0.75 °)*3*8*19 5°28' +/- 45' (5.47 ° +/- 0.75 °)*3*9*19 5°33' +/- 45' (5.55 ° +/- 0.75 °)*2*8 5°34' +/- 45' (5.57 ° +/- 0.75 °)*2*9	-	-
		*13	5°51' +/- 45' (5.85 ° +/- 0.75 °)*3*8*19 5°52' +/- 45' (5.87 ° +/- 0.75 °)*3*9*19 5°53' +/- 45' (5.88 ° +/- 0.75 °)*3*11*19 5°55' +/- 45' (5.92 ° +/- 0.75 °)*2*8 5°56' +/- 45' (5.93 ° +/- 0.75 °)*2*9 5°57' +/- 45' (5.95 ° +/- 0.75 °)*2*10	-	-	-
		*14	5°52' +/- 45' (5.87 ° +/- 0.75 °)*3*4*8 5°53' +/- 45' (5.88 ° +/- 0.75 °)*3*4*9 5°55' +/- 45' (5.92 ° +/- 0.75 °)*3*4*10 5°51' +/- 45' (5.85 ° +/- 0.75 °)*5*8 5°52' +/- 45' (5.87 ° +/- 0.75 °)*5*9 5°54' +/- 45' (5.90 ° +/- 0.75 °)*2*8*9 5°55' +/- 45' (5.92 ° +/- 0.75 °)*2*10	5°35' +/- 45' (5.58 ° +/- 0.75 °)*3*4*8 5°36' +/- 45' (5.60 ° +/- 0.75 °)*3*4*9 5°34' +/- 45' (5.57 ° +/- 0.75 °)*5*8 5°35' +/- 45' (5.58 ° +/- 0.75 °)*5*9 5°37' +/- 45' (5.62 ° +/- 0.75 °)*2	-	-
	D	*12	39°11' +/- 2° (39.18 ° +/- 2 °)*8*9 37°23' +/- 2° (37.38 ° +/- 2 °)*10*11	39°38' +/- 2° (39.63 ° +/- 2 °)*3*19 39°40' +/- 2° (39.67 ° +/- 2 °)*2	-	-
		*13	39°11' +/- 2° (39.18 ° +/- 2 °)*8*9 37°23' +/- 2° (37.38 ° +/- 2 °)*10*11	-	-	-
		*14	39°11' +/- 2° (39.18 ° +/- 2 °)*8*9 37°25' +/- 2° (37.42 ° +/- 2 °)*10	39°40' +/- 2° (39.67 ° +/- 2 °)	-	-
		E+F	*12	0°11' +/- 0°11' (0.18 ° +/- 0.18 °)	0°09' +/- 10' (0.15° +/- 0.17 °)*6 0°15' +/- 16' (0.25° +/- 0.27 °)*7	0°02' +/- 10' (0.03° +/- 0.17 °)*6 0°06' +/- 16' (0.10° +/- 0.27 °)*7
			*13	0°11' +/- 0°11' (0.18 ° +/- 0.18 °)	0°09' +/- 10' (0.15° +/- 0.17 °)*6 0°14' +/- 16' (0.23° +/- 0.27 °)*7	-
			*14	0°11' +/- 0°11' (0.18 ° +/- 0.18 °)	0°15' +/- 16' (0.26° +/- 0.27 °)	0°06' +/- 16' (0.11° +/- 0.27 °)
G-H mm (in.)		*12	2.0 +/- 2.0 (0.0787 +/- 0.0787)	1.8 +/- 2.0 (0.0709 +/- 0.0787)*6 2.9 +/- 3.0 (0.114 +/- 0.118)*7	0.5 +/- 2.0 (0.0197 +/- 0.0787)*6 1.2 +/- 3.0 (0.0472 +/- 0.118)*7	
		*13	2.0 +/- 2.0 (0.0787 +/- 0.0787)	1.8 +/- 2.0 (0.0709 +/- 0.0787)*6 2.8 +/- 3.0 (0.110 +/- 0.118)*7	-	
		*14	2.0 +/- 2.0 (0.0787 +/- 0.0787)	2.9 +/- 3.0 (0.114 +/- 0.118)	1.2 +/- 3.0 (0.0472 +/- 0.118)	

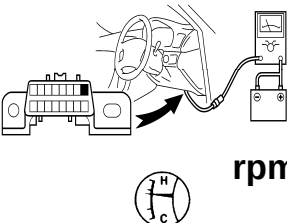
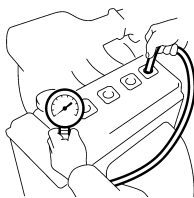
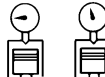
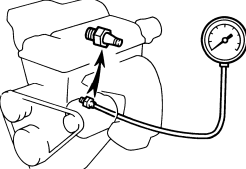
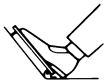
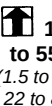
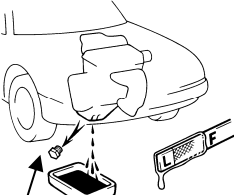
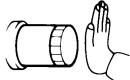
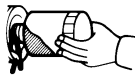
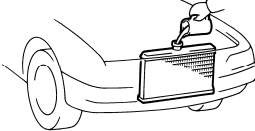
*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: for 1NR-FE *3: for 1ZR-FAE *4: for 1ZR-FE
*5: for 2ZR-FE *6: for Double Wishbone Type Suspension *7: for Torsion Beam Type Suspension *8: Tire Size: 195/65R15 *9: Tire Size: 205/55R16
*10: Tire Size: 215/45R17 *11: Tire Size: 225/45R17 *12: for Hatchback *13: for Wagon *14: for Sedan
*15: for Type A Brake Master Cylinder Sub-assembly *16: for Type B Brake Master Cylinder Sub-assembly *17: for Type A *18: for Type B
*19: for 8NR-FTS *20: for EC60, EC61 and EC6A *21: for K311 *22: for K313

COROLLA/AURIS

NRE180, NRE185,
ZRE181, ZRE182,
ZRE185

2015/05 - 2016/04

						
 kPa (kgf/cm ² , psi)	195/65R15 91H*9	260 (2.6, 38)*1 270 (2.7, 39)*1 230 (2.3, 33)*2 240 (2.4, 35)*2				
	205/55R16 91V 215/45R17 87W 225/45R17 91W	260 (2.6, 38)*1 230 (2.3, 33)*2				
		NRE, ZRE				
 *3		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System (for Hatchback, Wagon)				
 20°C (68 °F)		1.25 to 1.29				
		1NR-FE	8NR-FTS	1ZR-FAE	1ZR-FE	2ZR-FE
	cm³ or cc (cu. in.)	1329 (81.1)	1197 (73.0)	1598 (97.5)	1598 (97.5)	1798 (109.7)
 N (kgf,lbf)		-		7.6 to 10.0 (0.300 to 0.393) *550 to 750 (57 to 76, 124 to 168)		
 A	DENSO*7 NGK*8	SC20HR11 SC16HR11	DILKAR8J9G	SC20HR11 SC16HR11		
	A mm (in.)	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)		
 BTDC		8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)				

  rpm		600 to 700		580 to 680	600 to 700	
		-	680 to 780		600 to 700	
  kPa (kgf/cm², psi)		1200 <i>(12.2, 174)</i>	1080 <i>(11.0, 157)</i>	1373 <i>(14.0, 199)</i>		
		900 <i>(9.2, 131)</i>	880 <i>(9.0, 128)</i>	1079 <i>(11.0, 157)</i>		
		 98 <i>(1.0, 14.2)</i>	 100 <i>(1.0, 15)</i>	 98 <i>(1.0, 14.2)</i>		
 kPa (kgf/cm², psi)		 30 <i>(0.3, 4.4)</i>	 60 <i>(0.6, 9.0)</i>	 25 <i>(0.3, 3.6)</i>		
		3000 rpm  150 to 550 <i>(1.5 to 5.6, 22 to 80)</i>	2000 rpm  150 <i>(1.5, 22)</i>	3000 rpm  150 to 550 <i>(1.5 to 5.6, 22 to 80)</i>		
		1NR-FE	8NR-FTS	1ZR-FAE	1ZR-FE	2ZR-FE
 A		3.2 <i>(3.4, 2.8)</i>	3.7 <i>(3.9, 3.3)</i>	3.9 <i>(4.1, 3.4)</i>		
		3.4 <i>(3.6, 3.0)</i>	4.0 <i>(4.2, 3.5)</i>	4.2 <i>(4.4, 3.7)</i>		
	for 1NR-FE, 1ZR-FAE, 1ZR-FE and 2ZR-FE 0W-20, 5W-20, 5W-30 and 10W-30: API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*4 multi grade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multi grade engine oil for 8NR-FTS 0W-20, 5W-20, 5W-30 and 10W-30: “Toyota Genuine Motor Oil SAE 0W-20 for Downsized Turbo Gasoline Engines” or , API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*4 multi grade engine oil					
liters <i>(US qts, Imp.qts)</i>	A	30 <i>(306, 22)</i>	37 <i>(377, 27)</i>			
 liters <i>(US qts, Imp.qts)</i>		5.7 <i>(6.0, 5.0)*5</i> 4.7 <i>(5.0, 4.1)*6</i>	6.2 <i>(6.6, 5.5)*10</i> 2.1 <i>(2.2, 1.8)*11</i>	5.6 <i>(5.9, 4.9)</i>		
		-	6.4 <i>(6.8, 5.6)*10</i> 2.1 <i>(2.2, 1.8)*11</i>	5.8 <i>(6.1, 5.1)</i>		

*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph) *3: Initialization required. Refer to the repair manual for the initialization procedures.

*4: ILSAC: International Lubricant Standardization and Approval Committee. *5: w/ Exhaust Heat Recirculation System *6: w/o Exhaust Heat Recirculation System

*7: for 1NR-FE, 1ZR-FAE, 1ZR-FE and 2ZR-FE *8: for 8NR-FTS

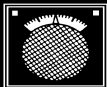
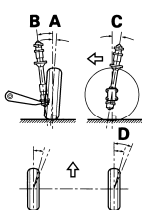
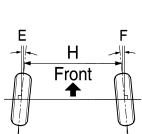
*9: For 195/65R15 91H tires, 2 different values of pressure are available. Refer to the tire pressure label before adjusting the tire inflation pressure.

*10: for Engine *11: for Intercooler

TOYOTA MOTOR CORPORATION Technical Service Division



	A	135.5 to 145.5 (5.33 to 5.73)*2 143.6 to 153.6 (5.65 to 6.05)*3*4*15	153.4 to 163.4 (6.04 to 6.43)*2 162.3 to 172.3 (6.39 to 6.78)*3*15
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	25 (0.984)	
mm (in.)		SAE J1704 or FMVSS No. 116 DOT4	
	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	63 (2.48)*12*13 69 (2.72)*14	73 (2.87)*12*13 78 (3.07)*14
mm (in.)		SAE J1704 or FMVSS No. 116 DOT4	
		5 to 8*12*13 6 to 8*14	
200 N (20 kgf, 45 lbf)			
	A	1.0 (0.0394)	
	B	23.0 (0.906)	8.0 (0.315)
mm (in.)			
		NRE	ZRE
		2.4 (2.5, 2.1)	
		"Toyota Genuine Manual Transmission Gear Oil LV GL-4 and SAE 75W" or "API GL-4 and SAE 75W"	
	A	45 (459, 33)	
liters (US qts, Imp.qts)			
		7.64 (8.1, 6.7)*16 7.5 (7.9, 6.6)*17	
		Toyota Genuine CVT fluid FE	
	A	40 (408, 30)	
liters (US qts, Imp.qts)			
N·m (kgf-cm, ft-lbf)			
		NRE, ZRE	
		103 (1050, 76)	
N·m (kgf-cm, ft.-lbf)			
		NRE, ZRE	
		30 (1.18)	
mm (in.)			

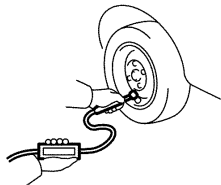
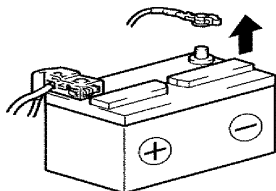
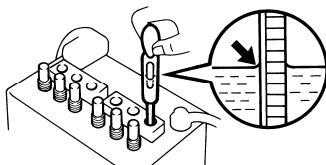
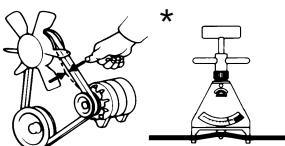
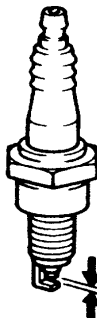
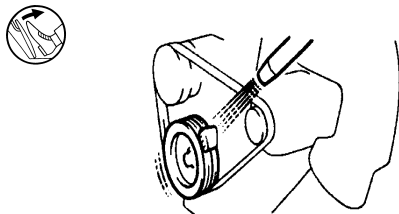
							
			Rough Road Package		Rough Road Package		
	A	*12	-0°13' +/- 45' (-0.22° +/- 0.75°)	-0°06' +/- 45' (-0.10° +/- 0.75°)	-1°00' +/- 45' (-1.00° +/- 0.75°)*6 -1°28' +/- 30' (-1.47° +/- 0.50°)*7	-0°40' +/- 45' (-0.67° +/- 0.75°)*6 -1°24' +/- 30' (-1.40° +/- 0.50°)*7	
		*13	-0°13' +/- 45' (-0.22° +/- 0.75°)	-	-1°00' +/- 45' (-1.00° +/- 0.75°)*6 -1°27' +/- 30' (-1.45° +/- 0.50°)*7	-	
		*14	-0°13' +/- 45' (-0.22° +/- 0.75°)*8 -0°14' +/- 45' (-0.23° +/- 0.75°)*9*10	-0°05' +/- 45' (-0.08° +/- 0.75°)*8 -0°06' +/- 45' (-0.10° +/- 0.75°)*9	-1°28' +/- 30' (-1.47° +/- 0.50°)	-1°24' +/- 30' (-1.40° +/- 0.50°)	
	B	*12	12°14' (12.23°)	11°48' (11.80°)*3*15 11°46' (11.77°)*2	-	-	
		*13	12°14' (12.23°)	-	-	-	
		*14	12°14' (12.23°)	11°46' (11.77°)	-	-	
	C	*12	5°45' +/- 45' (5.75° +/- 0.75°)*3*8*9*15 5°47' +/- 45' (5.78° +/- 0.75°)*3*11*15 5°50' +/- 45' (5.83° +/- 0.75°)*2*8 5°51' +/- 45' (5.85° +/- 0.75°)*2*9 5°53' +/- 45' (5.88° +/- 0.75°)*2*10	5°27' +/- 45' (5.45° +/- 0.75°)*3*8*15 5°28' +/- 45' (5.47° +/- 0.75°)*3*9*15 5°33' +/- 45' (5.55° +/- 0.75°)*2*8 5°34' +/- 45' (5.57° +/- 0.75°)*2*9	-	-	
		*13	5°51' +/- 45' (5.85° +/- 0.75°)*3*8*15 5°52' +/- 45' (5.87° +/- 0.75°)*3*9*15 5°53' +/- 45' (5.88° +/- 0.75°)*3*11*15 5°55' +/- 45' (5.92° +/- 0.75°)*2*8 5°56' +/- 45' (5.93° +/- 0.75°)*2*9 5°57' +/- 45' (5.95° +/- 0.75°)*2*10	-	-	-	
		*14	5°52' +/- 45' (5.87° +/- 0.75°)*3*4*8 5°53' +/- 45' (5.88° +/- 0.75°)*3*4*9 5°55' +/- 45' (5.92° +/- 0.75°)*3*4*10 5°52' +/- 45' (5.87° +/- 0.75°)*5*9 5°54' +/- 45' (5.90° +/- 0.75°)*2	5°35' +/- 45' (5.58° +/- 0.75°)*3*4*8 5°36' +/- 45' (5.60° +/- 0.75°)*3*4*9 5°35' +/- 45' (5.58° +/- 0.75°)*5*9 5°37' +/- 45' (5.62° +/- 0.75°)*2	-	-	
		D	*12	39°11' +/- 2°00' (39.18° +/- 2°)*8*9 37°23' +/- 2°00' (37.38° +/- 2°)*10*11	39°38' +/- 2°00' (39.63° +/- 2°)*3*15 39°40' +/- 2°00' (39.67° +/- 2°)*2	-	-
			*13	39°11' +/- 2°00' (39.18° +/- 2°)*8*9 37°23' +/- 2°00' (37.38° +/- 2°)*10*11	-	-	-
			*14	39°11' +/- 2°00' (39.18° +/- 2°)*8*9 37°25' +/- 2°00' (37.42° +/- 2°)*10	39°40' +/- 2°00' (39.67° +/- 2°)	-	-
	E+F	*12	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°09' +/- 10' (0.15° +/- 0.17°)*6 0°15' +/- 16' (0.25° +/- 0.27°)*7	0°02' +/- 10' (0.03° +/- 0.17°)*6 0°06' +/- 16' (0.10° +/- 0.27°)*7		
		*13	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°09' +/- 10' (0.15° +/- 0.17°)*6 0°14' +/- 16' (0.23° +/- 0.27°)*7	-		
		*14	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°15' +/- 16' (0.26° +/- 0.27°)	0°06' +/- 16' (0.11° +/- 0.27°)		
	G-H mm (in.)	*12	2.0 +/- 2.0 (0.0787 +/- 0.0787)	1.8 +/- 2.0 (0.0709 +/- 0.0787)*6 2.9 +/- 3.0 (0.114 +/- 0.118)*7	0.5 +/- 2.0 (0.0197 +/- 0.0787)*6 1.2 +/- 3.0 (0.0472 +/- 0.118)*7		
		*13	2.0 +/- 2.0 (0.0787 +/- 0.0787)	1.8 +/- 2.0 (0.0709 +/- 0.0787)*6 2.8 +/- 3.0 (0.110 +/- 0.118)*7	-		
		*14	2.0 +/- 2.0 (0.0787 +/- 0.0787)	2.9 +/- 3.0 (0.114 +/- 0.118)	1.2 +/- 3.0 (0.0472 +/- 0.118)		

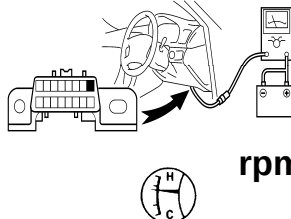
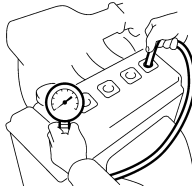
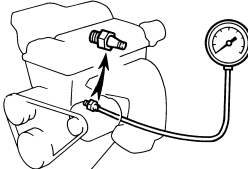
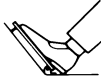
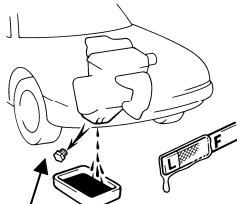
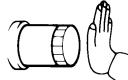
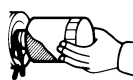
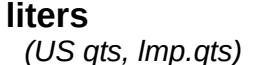
*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: for 1NR-FE *3: for 1ZR-FAE *4: for 1ZR-FE
*5: for 2ZR-FE *6: for Double Wishbone Type Suspension *7: for Torsion Beam Type Suspension *8: Tire Size: 195/65R15 *9: Tire Size: 205/55R16
*10: Tire Size: 215/45R17 *11: Tire Size: 225/45R17 *12: for Hatchback *13: for Wagon *14: for Sedan *15: for 8NR-FTS *16: for K311
*17: for K313

COROLLA/AURIS

NRE180, NRE185,
ZRE181, ZRE182,
ZRE185

2016/04 -

						
 kPa (kgf/cm ² , psi)	195/65R15 91H*9	260 (2.6, 38)*1 270 (2.7, 39)*1 230 (2.3, 33)*2 240 (2.4, 35)*2				
	205/55R16 91V 215/45R17 87W 225/45R17 91W	260 (2.6, 38)*1 230 (2.3, 33)*2				
		NRE, ZRE				
 *3		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System (for Hatchback, Wagon)				
 20°C (68 °F)		1.25 to 1.29 *13 1.25 or higher *12				
		1NR-FE	8NR-FTS	1ZR-FAE	1ZR-FE	2ZR-FE
	cm³ or cc (cu. in.)	1329 (81.1)	1197 (73.0)	1598 (97.5)	1598 (97.5)	1798 (109.7)
 N (kgf,lbf)		-			7.6 to 10.0 (0.300 to 0.393) *550 to 750 (57 to 76, 124 to 168)	
	DENSO *7 NGK *8	SC20HR11 SC16HR11	DILKAR8J9G	SC20HR11 SC16HR11		
	A mm (in.)	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)		
 BTDC		8 to 12° (DLC3 Terminals 13 (TC) - 4 (CG) Connected)				

  rpm		600 to 700		580 to 680	600 to 700	
		-	680 to 780		600 to 700	
  kPa (kgf/cm², psi)		1200 (12.2, 174)	1080 (11.0, 157)	1373 (14.0, 199)		
		900 (9.2, 131)	880 (9.0, 128)	1079 (11.0, 157)		
		 98 (1.0, 14.2)	 100 (1.0, 15)	 98 (1.0, 14.2)		
 kPa (kgf/cm², psi)		 30 (0.3, 4.4)	 60 (0.6, 9.0)	 25 (0.3, 3.6)		
		3000 rpm  150 to 550 (1.5 to 5.6, 22 to 80)	2000 rpm  150 (1.5, 22)	3000 rpm  150 to 550 (1.5 to 5.6, 22 to 80)		
		1NR-FE	8NR-FTS	1ZR-FAE	1ZR-FE	2ZR-FE
 A liters (US qts, Imp.qts)		3.2 (3.4, 2.8)	3.7 (3.9, 3.3)	3.9 (4.1, 3.4)		
		3.4 (3.6, 3.0)	4.0 (4.2, 3.5)	4.2 (4.4, 3.7)		
	for 1NR-FE, 1ZR-FAE, 1ZR-FE and 2ZR-FE 0W-20, 5W-20, 5W-30 and 10W-30: API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*4 multi grade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multi grade engine oil for 8NR-FTS 0W-20, 5W-20, 5W-30 and 10W-30: “Toyota Genuine Motor Oil SAE 0W-20 for Downsized Turbo Gasoline Engines” or , API grade SL “Energy-Conserving”, SM “Energy-Conserving”, SN “Resource-Conserving” or ILSAC*4 multi grade engine oil					
N·m (kgf-cm, ft.-lbf)	A	30 (306, 22)	37 (377, 27)			
		5.7 (6.0, 5.0)*5 4.7 (5.0, 4.1)*6	6.2 (6.6, 5.5)*10 2.1 (2.2, 1.8)*11	5.6 (5.9, 4.9)		
 liters (US qts, Imp.qts)		-	6.4 (6.8, 5.6)*10 2.1 (2.2, 1.8)*11	5.8 (6.1, 5.1)		

*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph) *3: Initialization required. Refer to the repair manual for the initialization procedures.

*4: ILSAC: International Lubricant Standardization and Approval Committee. *5: w/ Exhaust Heat Recirculation System *6: w/o Exhaust Heat Recirculation System

*7: for 1NR-FE, 1ZR-FAE, 1ZR-FE and 2ZR-FE *8: for 8NR-FTS

*9: For 195/65R15 91H tires, 2 different values of pressure are available. Refer to the tire pressure label before adjusting the tire inflation pressure.

*10: for Engine *11: for Intercooler *12: 1ZR-FE, 2ZR-FE *13: except 1ZR-FE, 2ZR-FE



	A	151.8 to 161.8 (5.98 to 6.37)	171.5 to 181.5 (6.75 to 7.15)
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	25 (0.984)	
	SAE J1703 or FMVSS No. 116 DOT3*2 SAE J1704 or FMVSS No. 116 DOT4		
	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	63 (2.48)	73 (2.87)
	SAE J1704 or FMVSS No. 116 DOT4		
		5 to 8	
	A	1.0 (0.0394)	
	B	23.0 (0.906)	8.0 (0.315)
		NDE	ADE
		2.4 (2.5, 2.1)	2.3 (2.4, 2.0)
	Toyota Genuine Manual Transmission Gear Oil “LV GL-4 and SAE 75W” or “API GL-4 and SAE 75W”		
liters (US qts, Imp.qts)			
N·m (kgf-cm, ft-lbf)		A	45 (459, 33) 39.2 (400, 29)

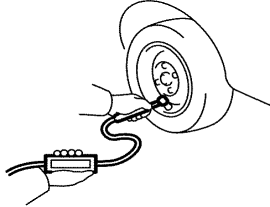
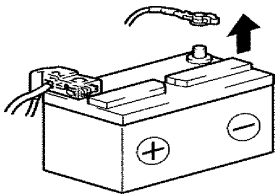
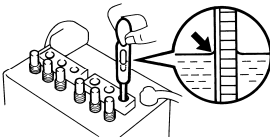
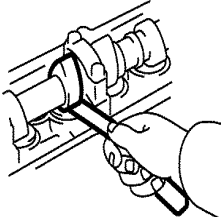
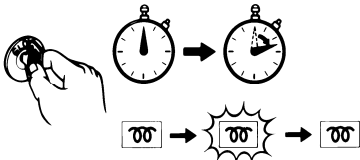
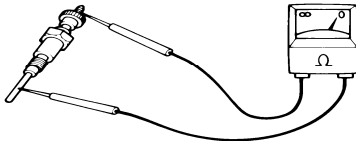
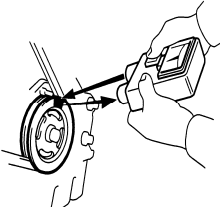
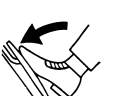
		NDE, ADE	
		103 (1050, 76)	
N·m (kgf-cm, ft-lbf)			
		NDE, ADE	
		30 (1.18)	
mm (in.)			
		A	-0°14' +/- 45' (-0.23° +/- 0.75°) -1°05' +/- 45' (-1.08° +/- 0.75°)*9 -1°28' +/- 30' (-1.47° +/- 0.50°)*10
		B	12°23' (12.38°)*3 12°21' (12.35°)*4
		C	5°45' +/- 45' (5.75° +/- 0.75°)*3*6 5°47' +/- 45' (5.78° +/- 0.75°)*3*8 5°47' +/- 45' (5.78° +/- 0.75°)*4 5°48' +/- 45' (5.80° +/- 0.75°)*4*7
		D	39°02' +/- 2° (39.03° +/- 2°)*3*6 37°15' +/- 2° (37.25° +/- 2°)*3*8 39°04' +/- 2° (39.07° +/- 2°)*4 37°17' +/- 2° (37.28° +/- 2°)*4*7
		E+F	0°11' +/- 0°11' (0.18° +/- 0.18°) 0°11' +/- 10' (0.18° +/- 0.17°)*9 0°15' +/- 16' (0.25° +/- 0.27°)*10
		G-H mm (in.)	2.1 +/- 2.0 (0.0827 +/- 0.0787)*9 2.9 +/- 3.0 (0.114 +/- 0.118)*10

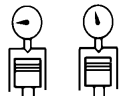
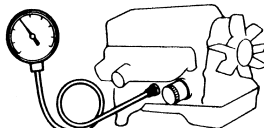
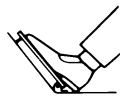
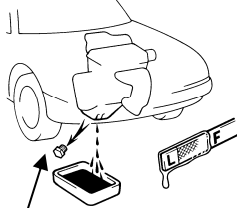
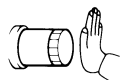
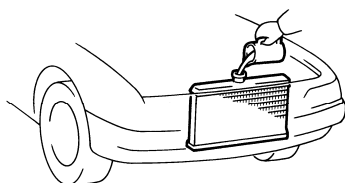
*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: Only for EA66 and EC69 *3: for 1AD-FTV
*4: for 1ND-TV *5: Tire Size: 195/65R15 *6: Tire Size: 205/55R16 *7: Tire Size: 215/45R17 *8: Tire Size: 225/45R17
*9: for Double Wishbone Type Suspension *10: for Torsion Beam Type Suspension

AURIS

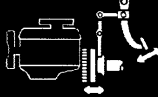
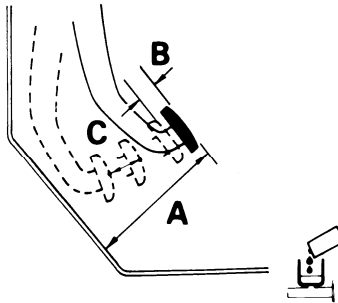
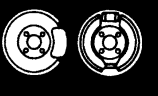
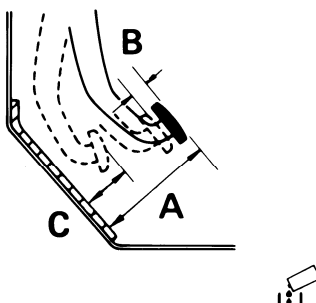
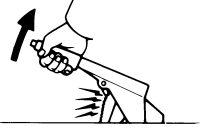
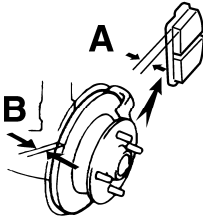
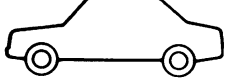
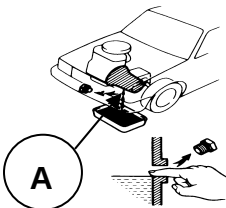
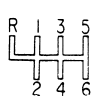
Diesel

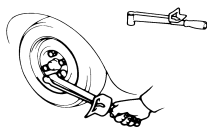
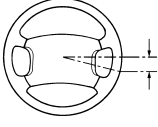
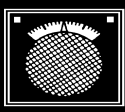
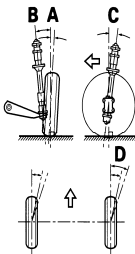
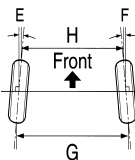
ADE186,
NDE1802012/10 - 2013/06

			
 kPa (kgf/cm ² , psi)	195/65R15 91H 215/45R17 87W	260 (2.6, 38)*1 230 (2.3, 33)*2 270 (2.7, 39)*3*4	260 (2.6, 38)*1 230 (2.3, 33)*2 260 (2.6, 38)*3*4
	205/55R16 91V 225/45R17 91W	270 (2.7, 39)*1*5 240 (2.4, 35)*2*5 260 (2.6, 38)*1 230 (2.3, 33)*2	260 (2.6, 38)*1 230 (2.3, 33)*2
		NDE, ADE	
 *6		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System	
 20°C (68°F)		1.25 to 1.29	
		1ND-TV	1AD-FTV
cm ³ or cc (cu. in.)		1364 (83.2)	1998 (121.9)
 mm (in.)		0.11 to 0.17 (0.00433 to 0.00669)	-
		0.14 to 0.20 (0.00551 to 0.00787)	-
 secs 20°C (68°F)		0.5 (20°C (68°F))	0.46 to 2.4 (15°C (59°F))
 ohm		0.7	0.28
 rpm		720 to 820	
		5150 to 5250	5100 to 5250

  kPa (kgf/cm ² , psi)		2300 (23.5, 334)		2500 (25.5, 363)	
		2050 (20.9, 297)		2200 (22.4, 319)	
		 500 (5.1, 73)			
  kPa (kgf/cm ² , psi)		 24.5 (0.25, 3.6)		 50 (0.5, 7.3)	
		3200 rpm	 150 (1.5, 22)	2500 rpm	 200 (2.0, 29)
				3500 rpm	 250 (2.5, 36)
		1ND-TV		1AD-FTV	
  liters (US qts, Imp.qts)		3.5 (3.7, 3.1)		5.5 (5.8, 4.8)	
		3.9 (4.1, 3.4)		5.9 (6.2, 5.2)	
	0W-30 and 5W-30: ACEA C2				
N·m (kgf-cm, ft-lbf)	A	38 (387, 28)			
 liters (US qts, Imp.qts)		5.6 (5.9, 4.9)*7 6.0 (6.3, 5.3)*8		7.4 (7.8, 6.5)*7 7.8 (8.2, 6.9)*8	

*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph) *3: with ECO Tire Pressure Label
*4: ECO pressure (for driving at under 160 km/h (100 mph)) *5: for 1AD-FTV
*6: Initialization required. Refer to the repair manual for the initialization procedures. *7: w/o Combustion Type Power Heater
*8: w/ Combustion Type Power Heater

			
 mm (in.)	A	151.8 to 161.8 (5.98 to 6.37)	171.5 to 181.5 (6.75 to 7.15)
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	 25 (0.984)	
		SAE J1703 or FMVSS No. 116 DOT3*2 SAE J1704 or FMVSS No. 116 DOT4	
			
 mm (in.)	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	 63 (2.48)*11*12  69 (2.72)*13	 73 (2.87) *11*12  78 (3.07) *13
		SAE J1704 or FMVSS No. 116 DOT4	SAE J1704 or FMVSS No. 116 DOT4
 200 N (20 kgf, 45 lbf)		5 to 8*11*12 6 to 8*13	
 mm (in.)			
A	 1.0 (0.0394)		
B	 23.0 (0.906)	 8.0 (0.315)*14  7.5 (0.295)*15	
		NDE	ADE
 liters (US qts, Imp.qts)		2.4 (2.5, 2.1)	2.3 (2.4, 2.0)
		Toyota Genuine Manual Transmission Gear Oil “LV GL-4 and SAE 75W” or “API GL-4 and SAE 75W”	
N•m (kgf-cm, ft-lbf)	A	45 (459, 33)	39.2 (400, 29)

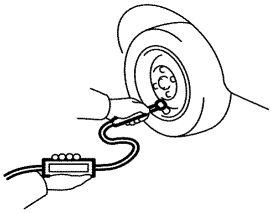
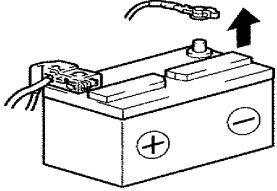
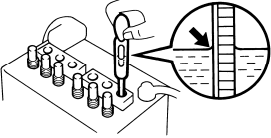
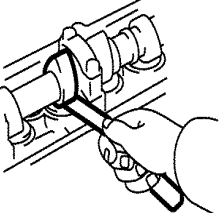
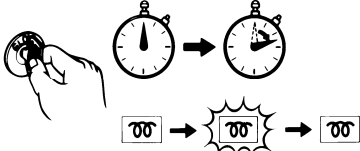
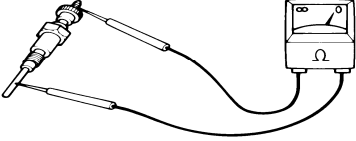
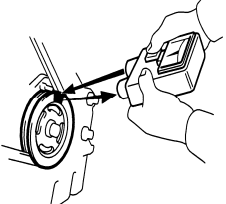
		NDE, ADE				
 N•m (kgf-cm, ft-lbf)		103 (1050, 76)				
		NDE, ADE				
 mm (in.)		 30 (1.18)				
						
			Rough Road Package		Rough Road Package	
	A	*11	-0°14' +/- 45' (-0.23° +/- 0.75°)	-	-1°05' +/- 45' (-1.08° +/- 0.75°)*9 -1°28' +/- 30' (-1.47° +/- 0.50°)*10	-
		*12	-0°14' +/- 45' (-0.23° +/- 0.75°)	-	-1°06' +/- 45' (-1.10° +/- 0.75°)*9 -1°27' +/- 30' (-1.45° +/- 0.50°)*10	-
		*13	-0°14' +/- 45' (-0.23° +/- 0.75°)	-0°08' +/- 45' (-0.13° +/- 0.75°)	-1°28' +/- 30' (-1.47° +/- 0.50°)	-1°24' +/- 30' (-1.40° +/- 0.50°)
	B	*11	12°23' (12.38°)*3 12°21' (12.35°)*4	-	-	-
		*12	12°23' (12.38°)*3 12°22' (12.37°)*4	-	-	-
		*13	12°20' (12.33°)	11°53' (11.88°)	-	-
	C	*11	5°45' +/- 45' (5.75° +/- 0.75°)*3*6 5°47' +/- 45' (5.78° +/- 0.75°)*3*8 5°47' +/- 45' (5.78° +/- 0.75°)*4 5°48' +/- 45' (5.80° +/- 0.75°)*4*7	-	-	-
		*12	5°51' +/- 45' (5.85° +/- 0.75°)*3*6 5°53' +/- 45' (5.88° +/- 0.75°)*3*8 5°51' +/- 45' (5.85° +/- 0.75°)*4*5 5°52' +/- 45' (5.87° +/- 0.75°)*4*6 5°53' +/- 45' (5.88° +/- 0.75°)*4*7	-	-	-
		*13	5°50' +/- 45' (5.83° +/- 0.75°)	5°33' +/- 45' (5.55° +/- 0.75°)	-	-
	D	*11	39°02' +/- 2° (39.03° +/- 2°)*3*6 37°15' +/- 2° (37.25° +/- 2°)*3*8 39°04' +/- 2° (39.07° +/- 2°)*4 37°17' +/- 2° (37.28° +/- 2°)*4*7	-	-	-
		*12	39°02' +/- 2° (39.03° +/- 2°)*3*6 37°15' +/- 2° (37.25° +/- 2°)*3*8 39°03' +/- 2° (39.05° +/- 2°)*4 37°16' +/- 2° (37.27° +/- 2°)*4*7	-	-	-
		*13	39°04' +/- 2° (39.07° +/- 2°)	39°32' +/- 2° (39.53° +/- 2°)	-	-
	E+F	*11	0°11' +/- 0°11' (0.18° +/- 0.18°)		0°11' +/- 10' (0.18° +/- 0.17°)*9 0°15' +/- 16' (0.25° +/- 0.27°)*10	-
		*12	0°11' +/- 0°11' (0.18° +/- 0.18°)		0°11' +/- 10' (0.18° +/- 0.17°)*9 0°13' +/- 16' (0.22° +/- 0.27°)*10	-
		*13	0°11' +/- 0°11' (0.18° +/- 0.18°)		0°15' +/- 16' (0.26° +/- 0.27°)	0°06' +/- 16' (0.11° +/- 0.27°)
	G-H mm (in.)	*11	2.0 +/- 2.0 (0.0787 +/- 0.0787)		2.1 +/- 2.0 (0.0827 +/- 0.0787)*9 2.9 +/- 3.0 (0.114 +/- 0.118)*10	-
		*12	2.0 +/- 2.0 (0.0787 +/- 0.0787)		2.1 +/- 2.0 (0.0827 +/- 0.0787)*9 2.7 +/- 3.0 (0.106 +/- 0.118)*10	-
		*13	2.0 +/- 2.0 (0.0787 +/- 0.0787)		2.9 +/- 3.0 (0.114 +/- 0.118)	1.2 +/- 3.0 (0.0472 +/- 0.118)*9

*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: Only for EA66 and EC69 *3: for 1AD-FTV
*4: for 1ND-TV *5: Tire Size: 195/65R15 *6: Tire Size: 205/55R16 *7: Tire Size: 215/45R17 *8: Tire Size: 225/45R17
*9: for Double Wishbone Type Suspension *10: for Torsion Beam Type Suspension *11: for Hatchback *12: for Wagon *13: for Sedan
*14: for Type A *15: for Type B

COROLLA/AURIS

Diesel

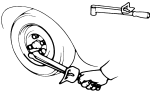
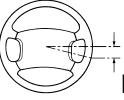
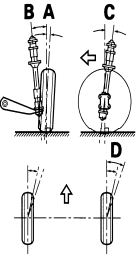
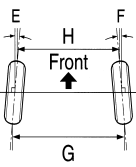
ADE186,
NDE180
2013/06 - 2015/05

			
 kPa (kgf/cm ² , psi)	195/65R15 91H 215/45R17 87W	260 (2.6, 38)*1 230 (2.3, 33)*2 270 (2.7, 39)*3*4	260 (2.6, 38)*1 230 (2.3, 33)*2 260 (2.6, 38)*3*4
	205/55R16 91V 225/45R17 91W	270 (2.7, 39)*1*5 240 (2.4, 35)*2*5 260 (2.6, 38)*1 230 (2.3, 33)*2	260 (2.6, 38)*1 230 (2.3, 33)*2
		NDE, ADE	
 *6		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System (for Hatchback, Wagon)	
 20°C (68 °F)		1.25 to 1.29	
		1ND-TV	1AD-FTV
cm ³ or cc (cu. in.)		1364 (83.2)	1998 (121.9)
 mm (in.)		0.11 to 0.17 (0.00433 to 0.0669)	-
		0.14 to 0.20 (0.00551 to 0.00787)	-
 secs 20°C (68 °F)		0.5 (20°C (68 °F))	0.46 to 2.4 (15°C (59 °F))
 ohm		0.7	0.28
 rpm		720 to 820	
		5150 to 5250	5100 to 5250

 kPa (kgf/cm ² , psi)		2300 (23.5, 334)		2500 (25.5, 363)	
		2050 (20.9, 297)		2200 (22.4, 319)	
		500 (5.1, 73)			
 kPa (kgf/cm ² , psi)		24.5 (0.25, 3.6)		50 (0.5, 7.3)	
		3200 rpm	150 (1.5, 22)	2500 rpm	200 (2.0, 29)
				3500 rpm	250 (2.5, 36)
	1ND-TV		1AD-FTV		
 liters (US qts, Imp.qts)		3.5 (3.7, 3.1)		5.5 (5.8, 4.8)	
		3.9 (4.1, 3.4)		5.9 (6.2, 5.2)	
	0W-30 and 5W-30: ACEA C2				
N·m (kgf-cm, ft-lbf)	A	38 (387, 28)			
 liters (US qts, Imp.qts)		5.6 (5.9, 4.9)*7 6.0 (6.3, 5.3)*8		7.4 (7.8, 6.5)*7 7.8 (8.2, 6.9)*8	

*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph) *3: with ECO Tire Pressure Label
*4: ECO pressure (for driving at under 160 km/h (100 mph)) *5: for 1AD-FTV
*6: Initialization required. Refer to the repair manual for the initialization procedures. *7: w/o Combustion Type Power Heater
*8: w/ Combustion Type Power Heater

 mm (in.)	A	151.8 to 161.8 (5.98 to 6.37)	171.5 to 181.5 (6.75 to 7.15)
	B	5.0 to 15.0 (0.197 to 0.591)	
	C	25 (0.984)	
	SAE J1703 or FMVSS No. 116 DOT3*2 SAE J1704 or FMVSS No. 116 DOT4*2*16		
 mm (in.)	A	128.1 to 138.1 (5.05 to 5.43)	141.4 to 151.4 (5.57 to 5.96)
	B	1.0 to 6.0 (0.0394 to 0.236)	
	C*1	63 (2.48)*11*12 69 (2.72)*13	73 (2.87) *11*12 78 (3.07) *13
	SAE J1704 or FMVSS No. 116 DOT4		SAE J1704 or FMVSS No. 116 DOT4
 200 N (20 kgf, 45 lbf)		5 to 8*11*12 6 to 8*13	
 mm (in.)	A	 1.0 (0.0394)	
	B	23.0 (0.906)	8.0 (0.315)*14 7.5 (0.295)*15
		NDE	WWE
 liters (US qts, Imp.qts)		2.4 (2.5, 2.1)	2.1 (2.2, 1.8)
	“Toyota Genuine Manual Transmission Gear Oil LV GL-4 and SAE 75W” or “API GL-4 and SAE 75W”		
 N•m (kgf-cm, ft-lbf)		A	45 (459, 33) 39.2 (400, 29)

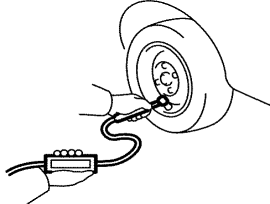
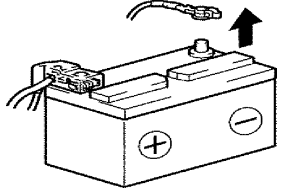
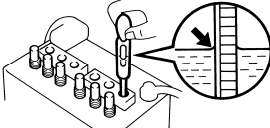
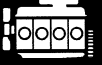
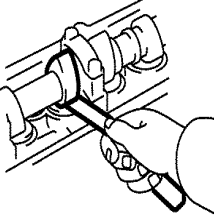
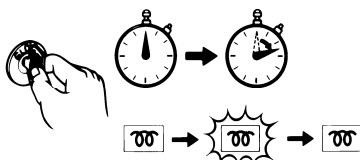
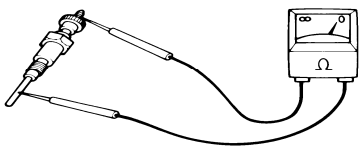
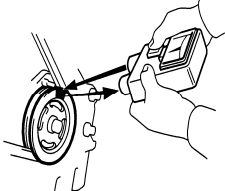
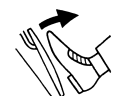
		NDE, WWE					
 N·m (kgf-cm, ft-lbf)		103 (1050, 76)					
		NDE, WWE					
 mm (in.)		 30 (1.18)					
							
			Rough Road Package		Rough Road Package		
	A	*11	-0°14' +/- 45' (-0.23° +/- 0.75°) -0°08' +/- 45' (-0.13° +/- 0.75°)*3*5 -0°09' +/- 45' (-0.15° +/- 0.75°)*3*6 -0°08' +/- 45' (-0.13° +/- 0.75°)*4*5*6	-1°05' +/- 45' (-1.08° +/- 0.75°)*9 -1°28' +/- 30' (-1.47° +/- 0.50°)*10	-0°44' +/- 45' (-0.73° +/- 0.75°)*3*5*9 -1°24' +/- 30' (-1.40° +/- 0.50°)*4*5*6*10		
		*12	-0°14' +/- 45' (-0.23° +/- 0.75°)	-	-		
		*13	-0°14' +/- 45' (-0.23° +/- 0.75°)*5*6 -0°15' +/- 45' (-0.25° +/- 0.75°)*7	-0°08' +/- 45' (-0.13° +/- 0.75°)	-1°28' +/- 30' (-1.47° +/- 0.50°)	-1°24' +/- 30' (-1.40° +/- 0.50°)	
	B	*11	12°23' (12.38°)*3 12°21' (12.35°)*4	11°56' (11.93°)*3*5*6 11°55' (11.92°)*4*5*6	-	-	
		*12	12°23' (12.38°)*3 12°22' (12.37°)*4	-	-	-	
		*13	12°20' (12.33°)	11°53' (11.88°)	-	-	
	C	*11	5°48' +/- 45' (5.80° +/- 0.75°)*3*5*6 5°50' +/- 45' (5.83° +/- 0.75°)*3*8 5°47' +/- 45' (5.78° +/- 0.75°)*4*5*6 5°48' +/- 45' (5.80° +/- 0.75°)*4*7	5°31' +/- 45' (5.52° +/- 0.75°)*3*5 5°32' +/- 45' (5.53° +/- 0.75°)*3*6 5°28' +/- 45' (5.47° +/- 0.75°)*4*5 5°29' +/- 45' (5.48° +/- 0.75°)*4*6	-	-	
		*12	5°50' +/- 45' (5.83° +/- 0.75°)*3*5 5°51' +/- 45' (5.85° +/- 0.75°)*3*6 5°53' +/- 45' (5.88° +/- 0.75°)*3*8 5°51' +/- 45' (5.85° +/- 0.75°)*4*5 5°52' +/- 45' (5.87° +/- 0.75°)*4*6 5°53' +/- 45' (5.88° +/- 0.75°)*4*7	-	-	-	
		*13	5°50' +/- 45' (5.83° +/- 0.75°)*5*6 5°51' +/- 45' (5.85° +/- 0.75°)*7	5°33' +/- 45' (5.55° +/- 0.75°)	-	-	
		D	*11	39°02' +/- 2° (39.03° +/- 2°)*3*5*6 37°15' +/- 2° (37.25° +/- 2°)*3*8 39°04' +/- 2° (39.07° +/- 2°)*4*5*6 37°17' +/- 2° (37.28° +/- 2°)*4*7	39°29' +/- 2° (39.48° +/- 2°)*3*5*6 39°31' +/- 2° (39.52° +/- 2°)*4*5*6	-	-
			*12	39°02' +/- 2° (39.03° +/- 2°)*3*5*6 37°15' +/- 2° (37.25° +/- 2°)*3*8 39°03' +/- 2° (39.05° +/- 2°)*4*5*6 37°16' +/- 2° (37.27° +/- 2°)*4*7	-	-	-
			*13	39°04' +/- 2° (39.07° +/- 2°)*5*6 37°18' +/- 2° (37.30° +/- 2°)*7	39°32' +/- 2° (39.53° +/- 2°)	-	-
	E+F	*11	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°11' +/- 10' (0.18° +/- 0.17°)*9 0°15' +/- 16' (0.25° +/- 0.27°)*10	0°04' +/- 10' (0.07° +/- 0.17°)*3*9 0°06' +/- 16' (0.10° +/- 0.27°)*4*10		
		*12	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°11' +/- 10' (0.18° +/- 0.17°)*9 0°13' +/- 16' (0.22° +/- 0.27°)*10	-		
		*13	0°11' +/- 0°11' (0.18° +/- 0.18°)	0°15' +/- 16' (0.26° +/- 0.27°)	0°06' +/- 16' (0.11° +/- 0.27°)		
	G-H mm (in.)	*11	2.0 +/- 2.0 (0.0787 +/- 0.0787)	2.1 +/- 2.0 (0.0827 +/- 0.0787)*9 2.9 +/- 3.0 (0.114 +/- 0.118)*10	0.8 +/- 2.0 (0.0315 +/- 0.0787)*3*9 1.2 +/- 3.0 (0.0472 +/- 0.118)*4*10		
		*12	2.0 +/- 2.0 (0.0787 +/- 0.0787)	2.1 +/- 2.0 (0.0827 +/- 0.0787)*9 2.7 +/- 3.0 (0.106 +/- 0.118)*10	-		
		*13	2.0 +/- 2.0 (0.0787 +/- 0.0787)	2.9 +/- 3.0 (0.114 +/- 0.118)	1.2 +/- 3.0 (0.0472 +/- 0.118)*9		

*1: When the brake pedal is depressed with the force of 294 N (30 kgf, 66.1 lbf) while the engine is running. *2: for EC69 and EA66 *3: for 1WW *4: for 1ND-TV

*5: Tire Size: 195/65R15 *6: Tire Size: 205/55R16 *7: Tire Size: 215/45R17 *8: Tire Size: 225/45R17 *9: for Double Wishbone Type Suspension

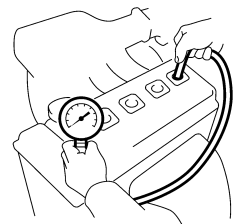
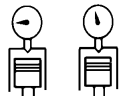
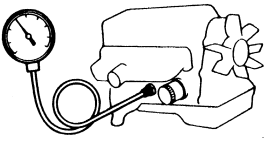
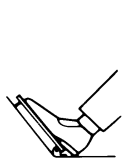
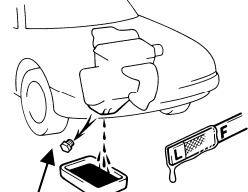
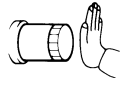
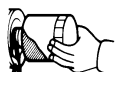
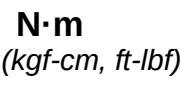
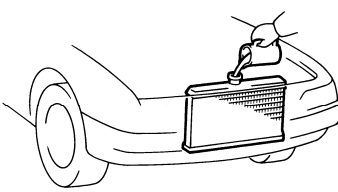
*10: for Torsion Beam Type Suspension *11: for Hatchback *12: for Wagon *13: for Sedan *14: for Type A *15: for Type B *16: for EC65A

COROLLA/AURIS

			
 kPa (kgf/cm ² , psi)	195/65R15 91H*9	260 (2.6, 38)*1 270 (2.7, 39)*1 230 (2.3, 33)*2 240 (2.4, 35)*2	
	205/55R16 91V 215/45R17 87W 225/45R17 91W	260 (2.6, 38)*1 230 (2.3, 33)*2	
		NDE, WWE	
 *3		Stop and Start System Simple Intelligent Parking Assist System Power Door Lock Control System (for Hatchback, Wagon)	
 20°C (68°F)		1.25 to 1.29	
		1ND-TV	1WW
		cm ³ or cc (cu. in.)	1364 (83.2)1598 (97.5)
 mm (in.)		0.11 to 0.17 (0.00433 to 0.00669)	-
		0.14 to 0.20 (0.00551 to 0.00787)	-
 secs 20°C (68°F)		0.5 (20°C (68°F))	-
 ohm		0.7*6 0.28*7	0.1 to 0.9
 rpm		720 to 820	830
		5150 to 5250	3800

Diesel

WWE185,
NDE1802015/05 -

 kPa (kgf/cm ² , psi)		2300 (23.5, 334)	1600 (16.3, 232)
		2050 (20.9, 297)	-
		500 (5.1, 73)	All cylinders almost same value
 kPa (kgf/cm ² , psi)		24.5 (0.25, 3.6)	180 (1.8, 26)
		3200 rpm150 (1.5, 22)	4000 rpm400 to 420 (4.1 to 4.3, 58 to 61)
		1ND-TV	1WW
 liters (US qts, Imp.qts)		3.3 (3.5, 2.9) 3.5 (3.7, 3.1)*8	-
		3.7 (3.9, 3.3) 3.9 (4.1, 3.4)*8	5.2 (5.5, 4.6)
 liters (US qts, Imp.qts)		0W-30 and 5W-30: ACEA C2	Toyota recommends the use of approved “Toyota Genuine Motor Oil 5W-30 Premium Fuel Economy for 1WW/2WW engines” or equivalent
 N·m (kgf-cm, ft-lbf)	A	38 (387, 28)	25 (255,128)
 liters (US qts, Imp.qts)		5.6 (5.9, 4.9)*4 6.0 (6.3, 5.3)*5	7.0(7.4, 6.2)*4 7.3 (7.7, 6.4)*5

*1: For driving at over 160 km/h (100 mph) *2: For driving at under 160 km/h (100 mph) *3: Initialization required. Refer to the repair manual for the initialization procedures.

*4: w/o Combustion Type Power Heater *5: w/ Combustion Type Power Heater *6: w/o Glow Plug Controller *7: w/ Glow Plug Controller

*8: for Destination Package for Turkey Sedan

*9: For 195/65R/15 91H tires, 2 different values of pressure are available. Refer to the tire pressure label before adjusting the tire inflation pressure.