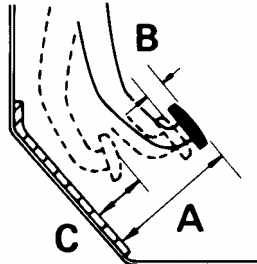
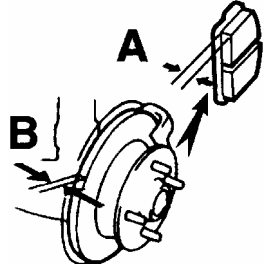
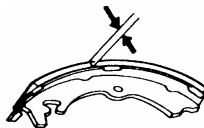
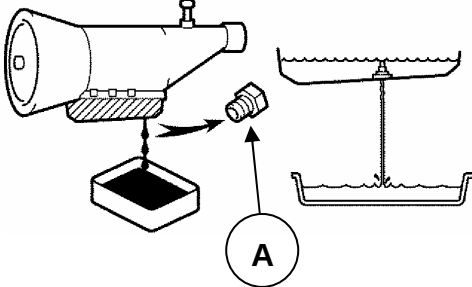
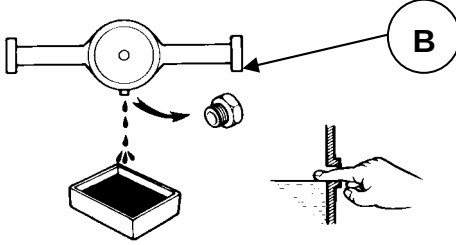
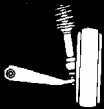
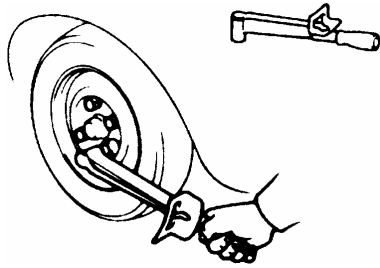
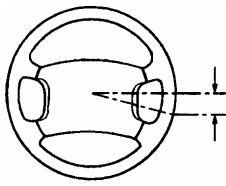
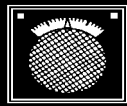
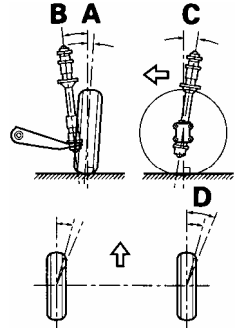
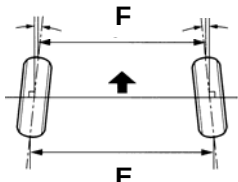
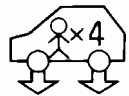
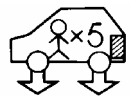
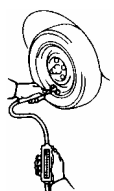
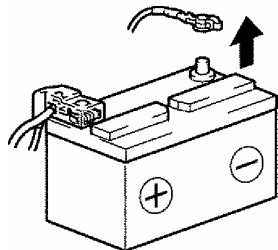
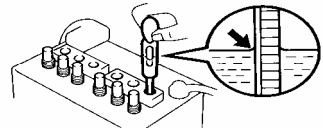
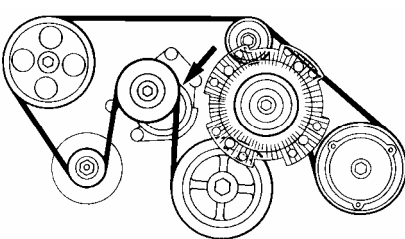
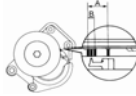
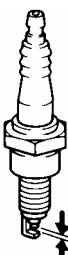
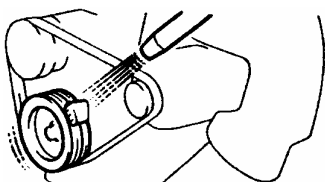
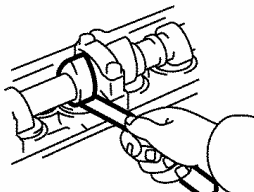
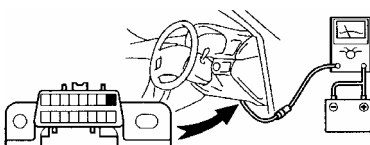
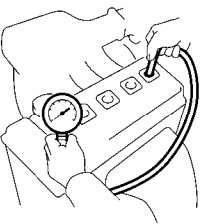
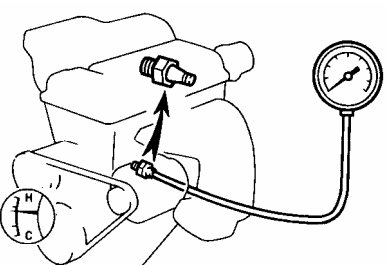
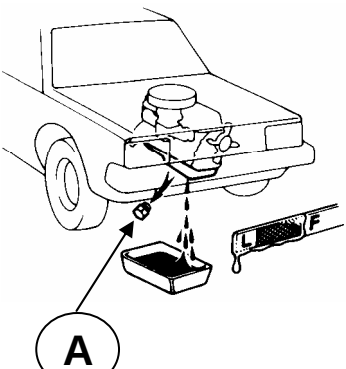
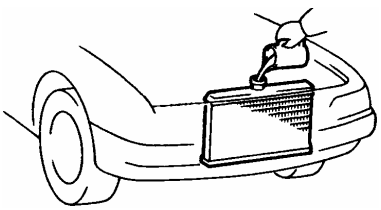
		UZS190, GRS190	
	A	120.5 to 130.5 (4.794 to 5.138)	
	B	1.0 to 2.0 (0.039 to 0.079)	
	C*1	 69 (2.71)	
mm (in.)		SAE J1703 or FMVSS No. 116 DOT3	
300 N (30.6 kgf, 67 lbf) 		7 to 9	
	A	 1.0 (0.039)	
	B	 30.0 (1.181)	 16.5 (0.650)
mm (in.)			
		 1.0 (0.039)	
mm (in.)		 191 (7.52)	
		UZS190, GRS190	
	liter (US qts, Imp. qts)	3GR-FE, 3UZ-FE	1.3 (1.4, 1.1)
		3GR-FSE	1.1 (1.2, 1.0)
		Toyota Genuine ATF WS	
	liter (US qts, Imp. qts)	3GR-FE, 3GR-FSE	1.15 (1.2, 1.0)
		3UZ-FE	1.35 (1.4, 1.2)
		3GR-FE	Hypoid gear oil, API GL-5  -18°C (0°F) SAE 90  -18°C (0°F) SAE 80W or 80W-90
		3GR-FSE 3UZ-FE	Toyota Genuine Differential Synthetic gear oil API GL-5 SAE 75W-90 or its equivalent
N·m (kgf-cm, ft-lbf)	A	20 (204, 15)	
	B	49 (500, 36)	

		UZS190, GRS190					
		103 (1050, 76)					
N·m (kgf-cm, ft-lbf)							
		UZS190, GRS190					
		 30 (1.18)					
mm (in.)							
							
		GS300	GS430	GS300	GS430		
	A	-0°23'±-45' (-0.38°±-0.75°)	-0°26'±-45' (-0.43°±-0.75°)	-1°10'±-45' (-1.17°±-0.75°)	-1°19'±-45' (-1.32°±-0.75°)		
	B	9°23'±-45' (9.38°±-0.75°)	9°26'±-45' (9.43°±-0.75°)	_____			
	C	7°23'±-45' (7.38°±-0.75°)	7°26'±-45' (7.43°±-0.75°)	_____			
	D	41°49' (41.82°)	41°48' (41.80°)	_____			
	E-F	1+1 (0.04±-0.08)		3+2 (0.12±-0.08)			
	mm (in.)						
							
km/h (mph)							
	Europe (3GR-FSE)	225/50 R17 94W	 210 (131)  210 (131)  160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	320 (3.2, 46)
			240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	290 (2.9, 42)	
			230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)	
	Europe (3UZ-FE)	245/40 ZR 18	 210 (131)  210 (131)  160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)
			240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)	
			230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)	
	Europe (3UZ-FE)	245/40 R18 93Y	 210 (131)  210 (131)  160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)
			240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)	
			230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)	
	Others (3GR-FE)	245/40 ZR 18	 210 (131)  210 (131)  160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)
			240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)	
			230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)	
Others (3GR-FE)	225/50 R17 94W	 210 (131)  210 (131) 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	320 (3.2, 46)	
		240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	290 (2.9, 42)		
		230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)		
Others (3UZ-FE)	245/40 R18 93Y	210 (131) 210 (131) 160 (100)	260 (2.7, 38)	270 (2.7, 39)	270 (2.7, 39)	310 (3.1, 45)	
		240 (2.4, 35)	250 (2.5, 36)	240 (2.4, 35)	270 (2.7, 39)		
		230 (2.3, 33)	230 (2.3, 33)	230 (2.3, 33)	260 (2.7, 38)		

*1 When brake pedal is depressed with force of 490 N (50 kgf, 110.1 lbf) while engine is running.

GS430/300

		UZS190, GRS190						
	*1		*2		*3			
			*4	VGRS		*5		
		1.25 to 1.29						
20°C (68 °F)								
		3GR-FE		3GR-FSE	3UZ-FE			
cm ³ or cc (cu. in.)		2995 (182.75)	2995 (182.75)	4293 (262.0)				
				 A: Used B: New				
	DENSO		SK20R11					
	NGK		IFR6A11					
	A mm (in.)		1.1 (0.043)					
 						8 to 12° (Terminals TC and CG of DLC3 Connected)		
BTDC								
	mm (in.)			0.15 to 0.25 (0.006 to 0.010)				
				0.25 to 0.35 (0.010 to 0.014)				
 		600 to 700		700 to 800				
(DLC3 Terminal 9 (TAC) Connected) rpm								

  kPa (kgf/cm², psi)		1400 (14, 199)		1226 (12.5, 174)
		 980 (10.0, 142)		 981 (10.0, 142)
		 100 (1.0, 15)		 98 (1.0, 14)
 kPa (kgf/cm², psi)		 80 (0.8, 11.6)		 29 (0.3, 4.2)
		 6,000 rpm  380 (3.9, 55.5)		 3,000 rpm 294 to 588 (3.0 to 6.0, 43 to 85)
		3GR-FE	3GR-FSE	3UZ-FE
 liter (US qts, Imp. qts)		5.9 (6.2, 5.2)		4.5 (4.8, 4.0)
		6.3 (6.7, 5.5)		5.2 (5.5, 4.6)
	20W-50 15W-40	API grade SJ or SL multigrade engine oil		
	10W-30 5W-30	API grade SJ “Energy-Conserving”, SL “Energy-Conserving” or ILSAC[®] multigrade engine oil		
	A	40 (408, 32)		39 (400, 29)
 liter (US qts, Imp. qts)		9.1 (9.6, 8.0)		11 (11.7, 9.7)

*1 Initialization required. Refer to the repair manual for the initialization procedures. *2 Power Window Control System *3 Sliding Roof System
*4 Clearance Sonar System *5 VGRS: Variable Gear Ratio Steering System *6 ILSAC: International Lubricant Standardization and Approval Committee
TOYOTA MOTOR CORPORATION Overseas Customer Service Technical Division