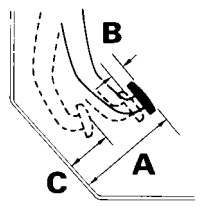
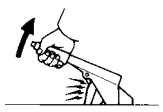
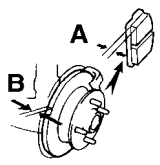
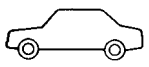
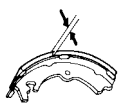
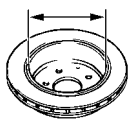
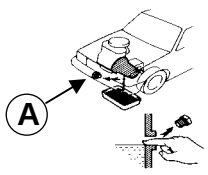
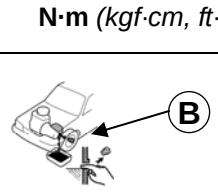
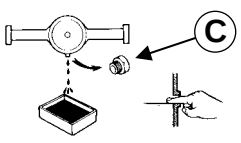
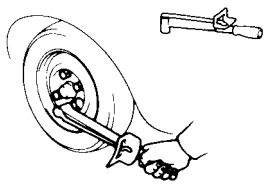
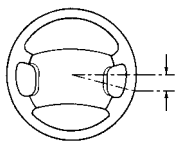
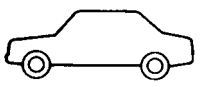
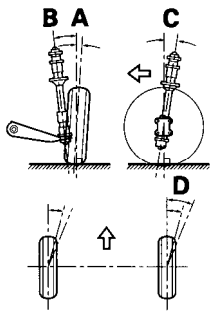
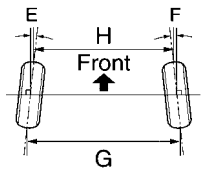
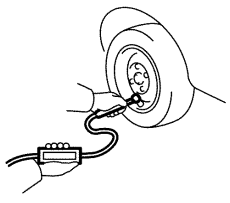
	A	**175.7 to 185.7** *(6.92 to 7.31)*	**210.2 to 220.2** *(8.28 to 8.67)*
	B	**1 to 5** *(0.039 to 0.197)*	
	C	⬆ **25** *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
	A	**184.2 to 194.2** *(7.252 to 7.646)*	**168.6 to 178.6** *(6.638 to 7.031)*
	B	**1 to 6** *(0.039 to 0.236)*	
	C*1	⬆ **75** *(2.95)****2** ⬆ **110** *(4.33)****3**	⬆ **70** *(2.75)****2** ⬆ **100** *(3.93)****3**
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
 **196 N** *(20 kgf, 44.1 lbf)*		**6 to 8**	
			
	A	⬆ **1.0** *(0.039)*	
	B	⬆ **25.0** *(0.984)*	⬆ **10.5** *(0.413)*
mm *(in.)*			
 **mm** *(in.)*		⬆ **1.0** *(0.039)*	
 **mm** *(in.)*		⬇ **173.0** *(6.81)*	
		ALA	
 **Liter** *(US qts, Imp. qts)*		**2.1** *(2.2, 1.8)*	
		API GL-4 SAE 75W	
N·m *(kgf·cm, ft·lbf)*	Ⓐ	**39** *(400, 29)*	
 **Liter** *(US qts, Imp. qts)*		**0.45** *(0.48, 0.40)*	
		Hypoid Gear Oil SX API GL-5 SAE 85W-90 or equivalent	
N·m *(kgf·cm, ft·lbf)*	Ⓑ	**39** *(398, 29)*	
 **Liter** *(US qts, Imp. qts)*		**0.45 to 0.55** *(0.48 to 0.58, 0.4 to 0.48)*	
		Hypoid Gear Oil SX API GL-5 SAE 85W-90 or equivalent	
N·m *(kgf·cm, ft·lbf)*	Ⓒ	**39** *(398, 29)*	

		ALA	
 **N·m** *(kgf·cm, ft·lbf)*		**103** *(1050, 76)*	
		ALA	
 **mm** *(in.)*		⬇ **30** *(1.18)*	
			
	A	Europe Only 215/70R16	**-0°08' ± 45'** *(-0.13° ± 0.75°)* **-0°58' ± 45'** *(-0.97° ± 0.75°)* **45'** *(0.75°)* **or less**
		225/65R17	**-0°11' ± 45'** *(-0.18 ± 0.75°)* **-1°07' ± 45'** *(-1.12° ± 0.75°)* **45'** *(0.75°)* **or less**
		235/55R18	
	B	Europe Only 215/70R16	**11°16' ± 45'** *(11.27° ± 0.75°)*
		225/65R17	**11°26' ± 45'** *(11.44° ± 0.75°)*
		235/55R18	
	C	Europe Only 215/70R16	**5°46' ± 45'** *(5.77° ± 0.75°)*
		225/65R17	**5°51' ± 45'** *(5.85° ± 0.75°)*
		235/55R18	**5°50' ± 45'** *(5.83° ± 0.75°)*
	D	Europe Only 215/70R16	**38°55' ± 2°** *(38.9° ± 2°)*
		225/65R17	**38°44' ± 2°** *(38.7° ± 2°)*
		235/55R18	**35°50' ± 2°** *(35.8° ± 2°)*
	E+F		**0°05' ± 10'** *(0.08° ± 0.17°)* **0°11' ± 10'** *(0.18° ± 0.17°)*
	G-H **mm** *(in.)*		**1.0 ± 2** *(0.04 ± 0.08)* **2.3 ± 1** *(0.09 ± 0.04)*
			ALA
 **kPa** *(kgf/cm²*, *psi)*		**215/70R16**	**220** *(2.2, 32)*
		225/65R17	
		235/55R18	
		225/65R17 (for Eco Package)	**230** *(2.3, 33)*

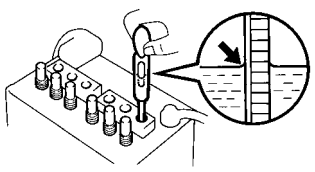
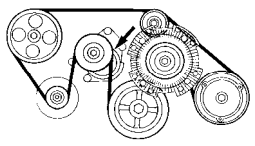
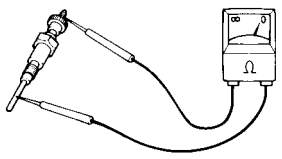
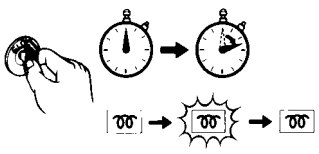
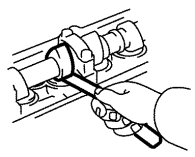
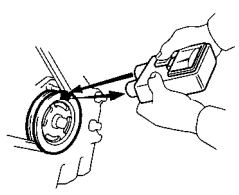
*1: When the brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: without VSC *3: with VSC

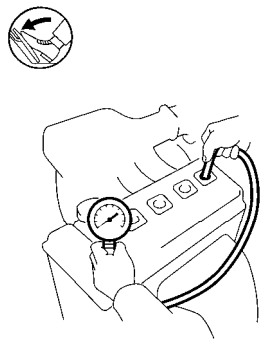
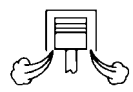
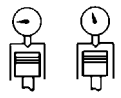
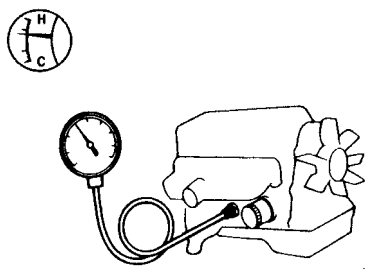
TOYOTA RAV4

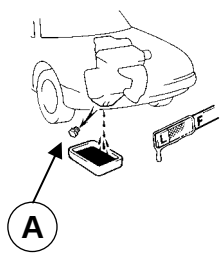
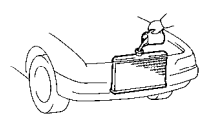
Diesel

ALA30

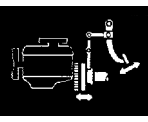
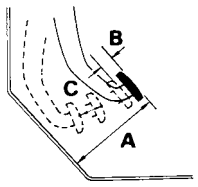
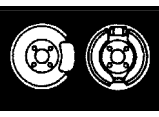
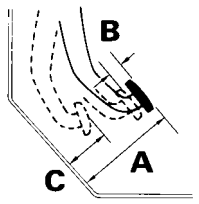
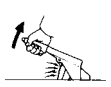
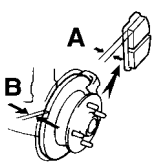
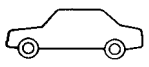
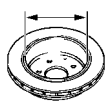
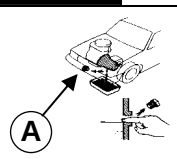
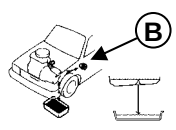
2008/12 - 2009/03

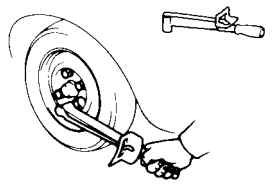
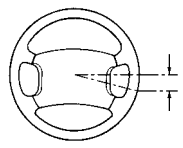
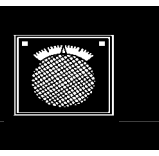
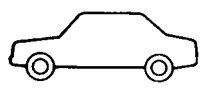
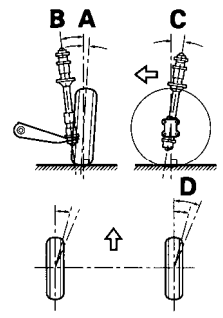
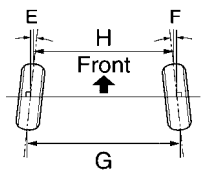
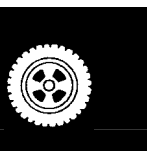
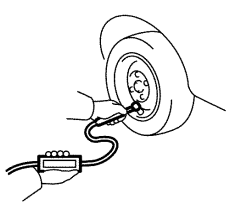
		ALA
 **20°C** *(68°F)*		**1.25 to 1.29**
		2AD-FTV, 2AD-FHV
cm³ or cc *(cu. in.)*		**2231** *(136.1)*
		-
20°C *(68°F)*  **ohm**		**0.7**
 **sec**	**-20°C** *(-4°F)*	**10 to 12**
	-15°C *(5°F)*	**6.0 to 8.0**
	0°C *(32°F)*	**3.0 to 5.0**
	35°C *(95°F)*	**0.45 to 1.0**
 **mm** *(in.)*		-
		-
  **rpm**		**720 to 820**
		**5100 to 5250**

 **kPa** *(kgf/cm², psi)*		**2500** *(25.5, 362)*
		⬆ **2200** *(22.5, 320)*
		⬇ **500** *(5.0, 71)*
 **kPa** *(kgf/cm², psi)*		⬆ **29** *(0.3, 4.2)*
	4500 rpm 	⬆ **245** *(2.5, 36)*

		2AD-FTV		**2AD-FHV**
		**5.5** *(5.8, 4.8)*		
		**5.9** *(6.2, 5.2)*		
Liter *(US qts, Imp. qts)*		**CCo *1**	**5W-30, 10W-30, 15W-40 and 20W-50: ACEA B1, API CF-4 or CF (API CE or CD may also be used)**	**0W-30 and 5W-30: ACEA C2**
		CCo *2	**0W-30, 5W-30, 10W-30, 15W-40 and 20W-50: ACEA C2, B1, API CF-4 or CF (API CE or CD may also be used)**	
		DPF	**0W-30 and 5W-30: ACEA C2**	
N·m *(kgf·cm, ft·lbf)*	Ⓐ	**38** *(387, 28)*		
 **Liter** *(US qts, Imp. qts)*	**w/o Power Heater**	**7.3** *(7.7, 6.4)*		
	w/ Power Heater	**7.7** *(8.1, 6.8)*		

*1: Diesel fuel that contains between 50 ppm and 500 ppm of sulfur. *2: Diesel fuel that contains 50 ppm or less of sulfur.

			
	**A**	**175.7 to 185.7** *(6.92 to 7.31)*	**210.2 to 220.2** *(8.28 to 8.67)*
	B	**1 to 5** *(0.039 to 0.197)*	
	C	⬆ **25** *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
			
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	C*1	⬆ **75** *(2.95)**2 ⬆ **110** *(4.33)**3	⬆ **70** *(2.75)**2 ⬆ **100** *(3.93)**3
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
 **196 N** *(20 kgf, 44.1 lbf)*		**6 to 8**	
			
	A	⬆ **1.0** *(0.039)*	
mm *(in.)*	**B**	⬆ **25.0** *(0.984)*	⬆ **10.5** *(0.413)*
 **mm** *(in.)*		⬆ **1.0** *(0.039)*	
 **mm** *(in.)*		⬇ **173.0** *(6.81)*	
		**ALA**	
		**2.1** *(2.2, 1.8)*	
Liter *(US qts, Imp. qts)*		**API GL-4** **SAE 75W**	
N*m *(kgf*cm, ft.*lbf)*	Ⓐ	**39** *(400, 29)*	
		**Refer to Repair Manual Pub. No. RM1331E (Automatic Transaxle Fluid)**	
Liter *(US qts, Imp. qts)*		**Toyota Genuine ATF WS**	
N*m *(kgf*cm, ft.*lbf)*	Ⓑ	**40** *(408, 30)*	
		0.45 *(0.48, 0.40)*	
Liter *(US qts, Imp. qts)*		**Hypoid Gear Oil SX API GL-5** **SAE 85W-90 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	Ⓒ	**39** *(398, 29)*	
		0.45 to 0.55 *(0.48 to 0.58, 0.4 to 0.48)*	
Liter *(US qts, Imp. qts)*		**Hypoid Gear Oil SX API GL-5** **SAE 85W-90 or equivalent**	
N·m *(kgf·cm, ft·lbf)*	Ⓓ	**39** *(398, 29)*	

		**ALA**	
 **N·m** *(kgf·cm, ft·lbf)*		**103** *(1050, 76)*	
		**ALA**	
 **mm** *(in.)*		⬇ **30** *(1.18)*	
			
	**A**	**Europe Only 215/70R16**	**-0°08' ± 45'** *(-0.13° ± 0.75°)*	**-0°58' ± 45'** *(-0.97° ± 0.75°)* **45'** *(0.75°)* **or less**
		225/65R17	**-0°11' ± 45'** *(-0.18 ± 0.75°)*	**-1°07' ± 45'** *(-1.12° ± 0.75°)* **45'** *(0.75°)* **or less**
		235/55R18		
	B	**Europe Only 215/70R16**	**11°16' ± 45'** *(11.27° ± 0.75°)*	-
		225/65R17	**11°26' ± 45'** *(11.44° ± 0.75°)*	
		235/55R18		
	C	**Europe Only 215/70R16**	**5°46' ± 45'** *(5.77° ± 0.75°)*	
		225/65R17	**5°51' ± 45'** *(5.85° ± 0.75°)*	
		235/55R18	**5°50' ± 45'** *(5.83° ± 0.75°)*	
	D	**Europe Only 215/70R16**	**38°55' ± 2°** *(38.9° ± 2°)*	
		225/65R17	**38°44' ± 2°** *(38.7° ± 2°)*	
		235/55R18	**35°50' ± 2°** *(35.8° ± 2°)*	
	**E+F**		**0°05' ± 10'** *(0.08° ± 0.17°)*	**0°11' ± 10'** *(0.18° ± 0.17°)*
	G-H **mm** *(in.)*		**1.0 ± 2** *(0.04 ± 0.08)*	**2.3 ± 1** *(0.09 ± 0.04)*
		**ALA**		
 **kPa** *(kgf/cm², psi)*	**215/70R16**	**220** *(2.2, 32)*		
	225/65R17			
	235/55R18			
	225/65R17 (for Eco Package)	**230** *(2.3, 33)*		

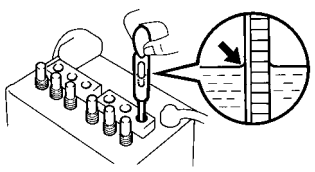
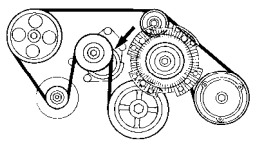
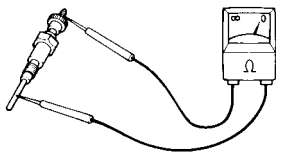
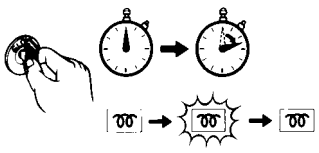
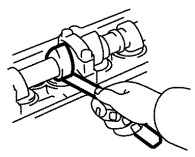
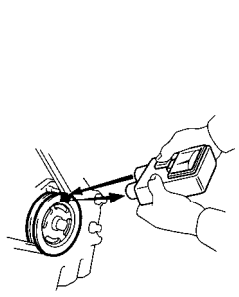
*1: When the brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: without VSC *3: with VSC

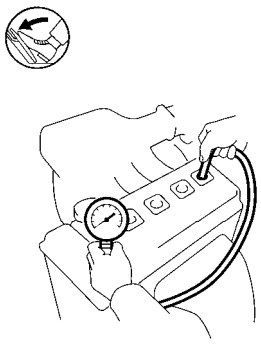
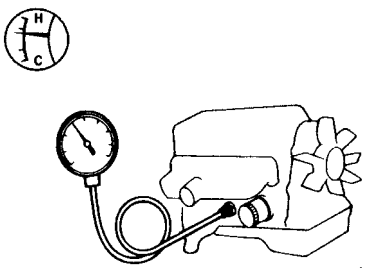
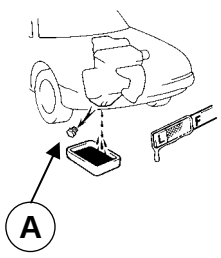
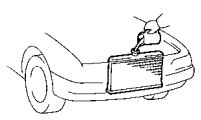
TOYOTA RAV4

Diesel

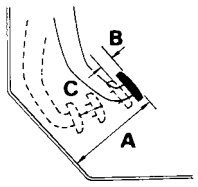
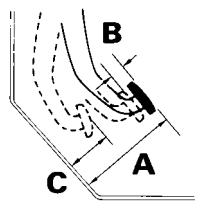
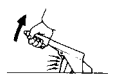
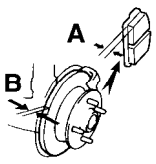
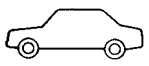
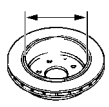
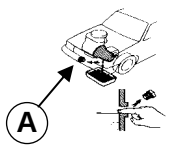
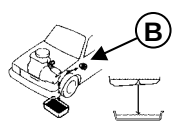
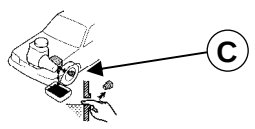
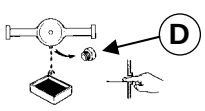
ALA30

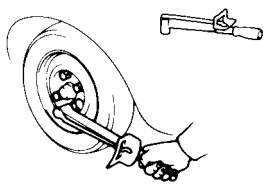
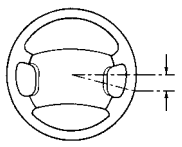
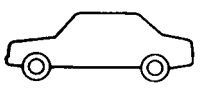
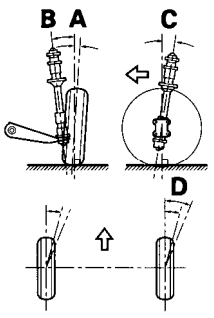
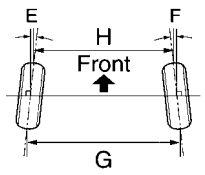
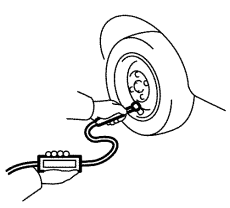
2009/03 - 2009/08

		ALA	
 **20°C** *(68°F)*		**1.25 to 1.29**	
		2AD-FTV	**2AD-FHV**
cm³ or cc *(cu. in.)*		**2231** *(136.1)*	
		-	
20°C *(68°F)*  **ohm**		**0.7**	
 **sec**	**-20°C** *(-4°F)*	**10 to 12**	
	-15°C *(5°F)*	**6.0 to 8.0**	
	0°C *(32°F)*	**3.0 to 5.0**	
	35°C *(95°F)*	**0.45 to 1.0**	
 **mm** *(in.)*		-	
		-	
 **rpm**		**720 to 820**	
		5100 to 5250	

 **kPa** *(kgf/cm², psi)*		**2500** *(25.5, 362)*	
		2200 *(22.5, 320)*	
		500 *(5.0, 71)*	
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.2)*	
	4500 rpm	**245** *(2.5, 36)*	
		2AD-FTV	**2AD-FHV**
 **Liter** *(US qts, Imp. qts)*		**5.5** *(5.8, 4.8)*	
		5.9 *(6.2, 5.2)*	
	CCo *1	**5W-30, 10W-30, 15W-40 and 20W-50: ACEA B1, API CF-4 or CF (API CE or CD may also be used)**	**0W-30 and 5W-30: ACEA C2**
	CCo *2	**0W-30, 5W-30, 10W-30, 15W-40 and 20W-50: ACEA C2, B1, API CF-4 or CF (API CE or CD may also be used)**	
	DPF	**0W-30 and 5W-30: ACEA C2**	
N·m *(kgf·cm, ft·lbf)*	**A**	**38** *(387, 28)*	
 **Liter** *(US qts, Imp. qts)*	**w/o Power Heater**	**7.3** *(7.7, 6.4)*	
	w/ Power Heater	**7.7** *(8.1, 6.8)*	

*1: Diesel fuel that contains between 50 ppm and 500 ppm of sulfur. *2: Diesel fuel that contains 50 ppm or less of sulfur.

	**A**	**175.7 to 185.7** *(6.92 to 7.31)*	**210.2 to 220.2** *(8.28 to 8.67)*
	B	**1 to 5** *(0.039 to 0.197)*	
	C	⬆ **25** *(0.98)*	
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
	**A**	**184.2 to 194.2** *(7.252 to 7.646)*	**168.6 to 178.6** *(6.638 to 7.031)*
	B	**1 to 6** *(0.039 to 0.236)*	
	C*1	⬆ **75** *(2.95)****2** ⬆ **110** *(4.33)****3**	⬆ **70** *(2.75)****2** ⬆ **100** *(3.93)****3**
mm *(in.)*		**SAE J1703 or FMVSS No. 116 DOT 3**	
 **196 N** *(20 kgf, 44.1 lbf)*		**6 to 8**	
			
	A	⬆ **1.0** *(0.039)*	
mm *(in.)*	**B**	⬆ **25.0** *(0.984)*	⬆ **10.5** *(0.413)*
 **mm** *(in.)*		⬆ **1.0** *(0.039)*	
 **mm** *(in.)*		⬇ **173.0** *(6.81)*	
		ALA	
		**2WD: 2.3** *(2.4, 2.0)* **4WD: 2.1** *(2.2, 1.8)*	
Liter *(US qts, Imp. qts)*		**API GL-4 SAE 75W**	
N*m *(kgf*cm, ft.*lbf)*	Ⓐ	**39** *(400, 29)*	
		**Refer to Repair Manual Pub. No. RM1332E (Automatic Transaxle Fluid)**	
Liter *(US qts, Imp. qts)*		**Toyota Genuine ATF WS**	
N*m *(kgf*cm, ft.*lbf)*	Ⓑ	**40** *(408, 30)*	
		**0.45** *(0.48, 0.40)*	
Liter *(US qts, Imp. qts)*		**Hypoid Gear Oil SX API GL-5 SAE 85W-90 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	Ⓒ	**39** *(398, 29)*	
		**0.45 to 0.55** *(0.48 to 0.58, 0.4 to 0.48)*	
Liter *(US qts, Imp. qts)*		**Hypoid Gear Oil SX API GL-5 SAE 85W-90 or equivalent**	
N·m *(kgf·cm, ft·lbf)*	Ⓓ	**39** *(398, 29)*	

		ALA	
 **N·m** *(kgf·cm, ft·lbf)*		**103** *(1050, 76)*	
		ALA	
 **mm** *(in.)*		⬇ **30** *(1.18)*	
			
	**A**	**Europe Only 215/70R16**	**-0°08' ± 45'** *(-0.13° ± 0.75°)*	**-0°58' ± 45'** *(-0.97° ± 0.75°)* **45'** *(0.75°)* **or less**
		225/65R17	**-0°11' ± 45'** *(-0.18 ± 0.75°)*	**-1°07' ± 45'** *(-1.12° ± 0.75°)* **45'** *(0.75°)* **or less**
		235/55R18		
	B	**Europe Only 215/70R16**	**11°16' ± 45'** *(11.27° ± 0.75°)*	-
		225/65R17	**11°26' ± 45'** *(11.44° ± 0.75°)*	
		235/55R18		
	C	**Europe Only 215/70R16**	**5°46' ± 45'** *(5.77° ± 0.75°)*	
		225/65R17	**5°51' ± 45'** *(5.85° ± 0.75°)*	
		235/55R18	**5°50' ± 45'** *(5.83° ± 0.75°)*	
	D	**Europe Only 215/70R16**	**38°55' ± 2°** *(38.9° ± 2°)*	
		225/65R17	**38°44' ± 2°** *(38.7° ± 2°)*	
		235/55R18	**35°50' ± 2°** *(35.8° ± 2°)*	
	**E+F**		**0°05' ± 10'** *(0.08° ± 0.17°)*	**0°11' ± 10'** *(0.18° ± 0.17°)*
	G-H **mm** *(in.)*		**1.0 ± 2** *(0.04 ± 0.08)*	**2.3 ± 1** *(0.09 ± 0.04)*
			ALA	
 **kPa** *(kgf/cm²*, *psi)*	**215/70R16**		**220** *(2.2, 32)*	
	225/65R17			
	235/55R18			
	225/65R17 (for Eco Package)		**230** *(2.3, 33)*	

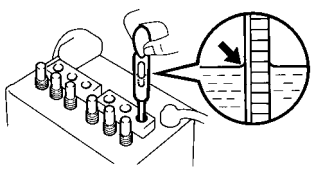
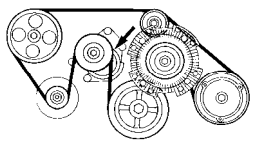
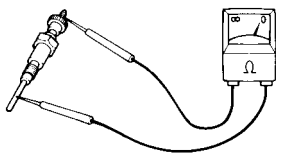
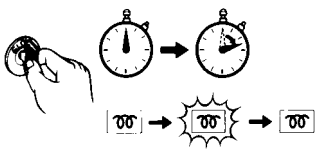
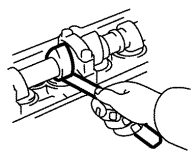
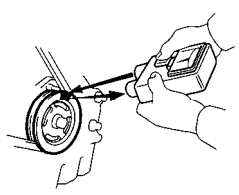
*1: When the brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: without VSC *3: with VSC

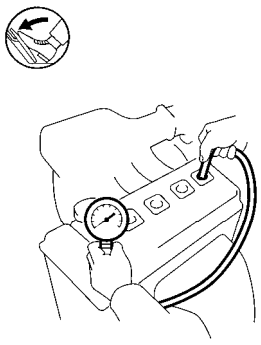
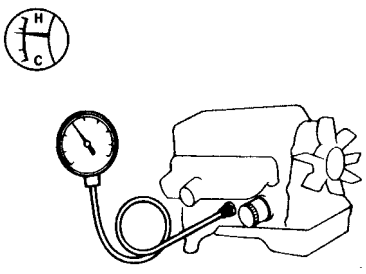
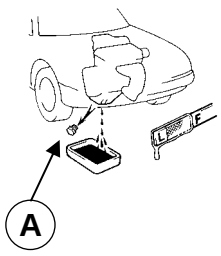
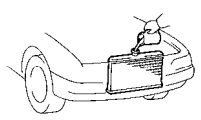
TOYOTA RAV4

Diesel

ALA30, 35

2009/08 -

		ALA	
 **20°C** *(68°F)*		**1.25 to 1.29**	
		2AD-FTV	**2AD-FHV**
cm³ or cc *(cu. in.)*		**2231** *(136.1)*	
		-	
 **20°C** *(68°F)* **ohm**		**0.7**	
 **sec**	**-20°C** *(-4°F)*	**10 to 12**	
	-15°C *(5°F)*	**6.0 to 8.0**	
	0°C *(32°F)*	**3.0 to 5.0**	
	35°C *(95°F)*	**0.45 to 1.0**	
 **mm** *(in.)*		-	
		-	
 **rpm**		**720 to 820**	
		5100 to 5250	

 **kPa** *(kgf/cm², psi)*		**2500** *(25.5, 362)*	
		2200 *(22.5, 320)*	
		500 *(5.0, 71)*	
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.2)*	
	4500 rpm	**245** *(2.5, 36)*	
		2AD-FTV	**2AD-FHV**
 **Liter** *(US qts, Imp. qts)*		**5.5** *(5.8, 4.8)*	
		5.9 *(6.2, 5.2)*	
	CCo *1	**5W-30, 10W-30, 15W-40 and 20W-50: ACEA B1, API CF-4 or CF (API CE or CD may also be used)**	**0W-30 and 5W-30: ACEA C2**
	CCo *2	**0W-30, 5W-30, 10W-30, 15W-40 and 20W-50: ACEA C2, B1, API CF-4 or CF (API CE or CD may also be used)**	
	DPF	**0W-30 and 5W-30: ACEA C2**	
N·m *(kgf·cm, ft·lbf)*	**A**	**38** *(387, 28)*	
 **Liter** *(US qts, Imp. qts)*	**w/o Power Heater**	**7.3** *(7.7, 6.4)*	
	w/ Power Heater	**7.7** *(8.1, 6.8)*	

*1: Diesel fuel that contains between 50 ppm and 500 ppm of sulfur. *2: Diesel fuel that contains 50 ppm or less of sulfur.

TOYOTA MOTOR CORPORATION Technical Service Division