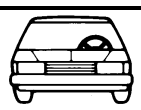
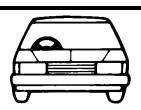
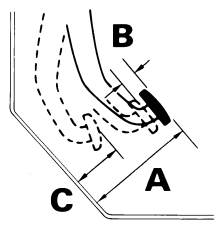
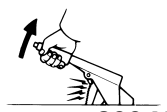
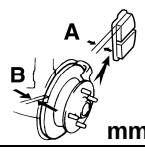
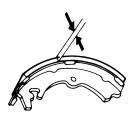
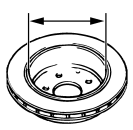
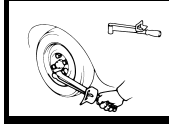
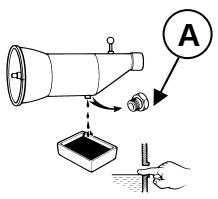
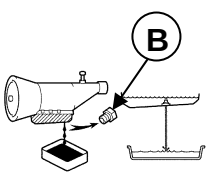
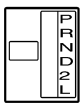
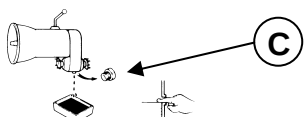
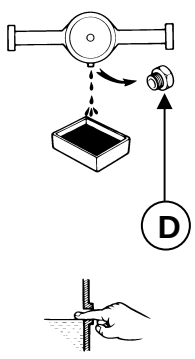
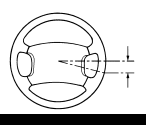
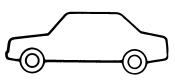
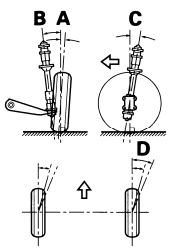
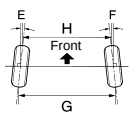
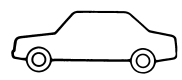
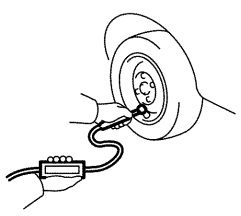
 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
 mm *(in.)*	A	⬆ **1.0** *(0.0394)*	
	B	**23** *(0.906)*5* **26** *(1.024)*6*7*	**23** *(0.906)*5* **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*2*	⬇ **256** *(10.079)*2*
		⬇ **297** *(11.693)*4*	⬇ **297** *(11.693)*4*
		2WD	**4WD**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(15.5, 112)*12* **121** *(12.3, 89)*13*	**105** *(10.7, 77)*
		1TR-FE	**2TR-FE** / **1GR-FE**
		**2.2** *(2.3, 1.9)*	**2.6** *(2.7, 2.3)*2* **2.2** *(2.3, 1.9)*3* / **2.6**(2.7,2.3)*2* **2.2** *(2.3, 1.9)*3*
Liter *(US qts, Imp. qts)*		**API GL-4 SAE 75W-90**	
N*m *(kgf*cm, ⒶA ft.*lbf)*		**37** *(377, 27)*	
		**-**	**2.0** *(2.1, 1.8)* / **Toyota Genuine ATF Type T-IV**	**A750E:** *8* **A750F:** *9* / **Toyota Genuine ATF WS**
Liter *(US qts, Imp. qts)*		**-**	
N*m *(kgf*cm, ⒷB ft.*lbf)*		**20** *(204, 15)*	

 **Liter** *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Hypoid gear oil API GL-4 or GL-5 SAE 75W-90	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	
 **Liter** *(US qts, Imp. qts)*	D	**Item** / **Capacity** / **Viscosity**	
		Front diff. w/ A.D.D.	**1.60 to 1.70** *(1.69 to 1.79, 1.41 to 1.49)*	**SAE 75W-90**
		Front diff. w/o A.D.D.	**1.40 to 1.50** *(1.48 to 1.58, 1.23 to 1.32)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TMT (2WD and w/ LSD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TMT (4WD and w/o LSD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TSAM (2WD and Made for DANA)	**2.30 to 2.40** *(2.43 to 2.54, 2.02 to 2.11)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	**2.40 to 2.50** *(2.54 to 2.64, 2.11 to 2.20)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TSAM (w/ LSD for 2WD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TSAM (w/ LSD for 4WD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Rear diff. made for TSAM (w/ diff. lock)	**2.85 to 2.95** *(3.01 to 3.12, 2.51 to 2.60)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))**
		Item	**Oil grade**	
		Front diff.	**Hypoid gear oil API GL-5 or equivalent**	
		Rear diff. (2WD and w/o LSD)		
		Rear diff. (w/ LSD)	**Hypoid gear oil LSD API GL-5 or equivalent**	
N*m *(kgf*cm, ft.*lbf)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*	
		TGN, GGN		
 mm *(in.)*		⬇ **30** *(1.2)*	
			
	A	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	E+F		
	G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: 2WD *3: for 4WD
*4: for 4WD and Pre-runner *5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake
*7: for TMT and TSAM Made 2WD *8: Please refer to Repair Manual (A750E Automatic Transmission / Automatic Transmission Fluid)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels

HILUX

TGN10, 11, 15, 16, 26, 36
GGN15, 25, 35

2011/06 - 2012/04

	TGN	GGN
*1	**Power Window Control System**	
	Meter / Gauge System	
20°C *(68°F)*	**1.25 to 1.29**	

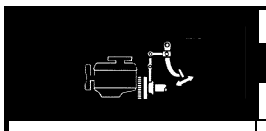
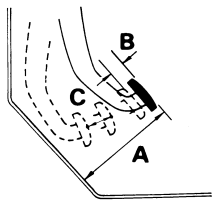
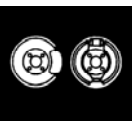
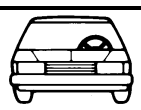
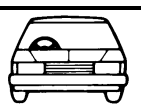
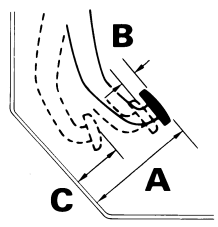
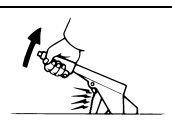
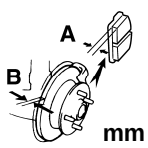
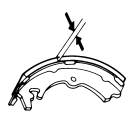
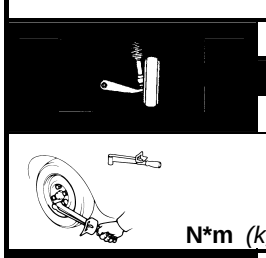
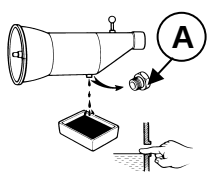
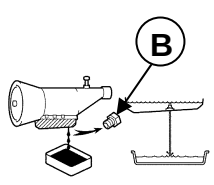
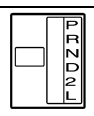
		1TR-FE	2TR-FE	1GR-FE
CC *(cu. in.)*		**1998** *(121.9)*	**2694** *(164.4)*	**3956** *(241.4)*
	*2 / *3			-
	DENSO	**K20HR-U11**	**K20HR-U11**	**K20HR-U11**
A	**NGK**	**-**	**-**	**LFR6C11**
	A mm *(in.)*	**1.0 to 1.1** *(0.039 to 0.043)*		
BTDC		**3 to 7°** DLC3 terminals 13 (TC) - 4 (CG) connected		**8 to 12°** DLC3 terminals 13 (TC) - 4 (CG) connected
mm *(in.)*		-	-	**0.15 to 0.25** *(0.006 to 0.010)*
		-	-	**0.29 to 0.39** *(0.011 to 0.015)*
[DLC3 terminal 9 (TAC) connected] **rpm**		**650 to 750**	**600 to 700**	**650 to 750**

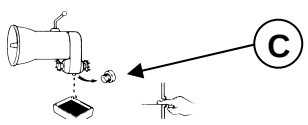
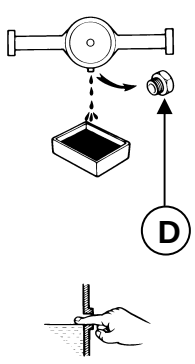
kPa *(kgf/cm², psi)*		**1230** *(12.5, 178)*	**1300** *(13.3, 189)*
		⬆ **880** *(9.0, 128)*	⬆ **1000** *(10.2, 145)*
		⬇ **68** *(0.7, 10)*	⬇ **100** *(1.0, 15)*
kPa *(kgf/cm², psi)*		⬆ **29** *(0.3, 4.2)*	
	3000 rpm	**160 to 490** *(1.6 to 5.0, 23 to 71)*	**294 to 588** *(3.0 to 6.0, 43 to 85)*

	1TR-FE	2TR-FE	1GR-FE
	5.3 *(5.6, 4.7)*		**5.2** *(5.5, 4.6)*
	5.6 *(5.9, 4.9)*		**5.5** *(5.8, 4.8)*
Liter *(US qts, lmp.qts)*	**20W-50 and 15W-40** **API grade SL or SM multigrade engine oil** **10W-30 and 5W-30** **API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC*4 multigrade engine oil**		
N*m *(kgf*cm, ft.*lbf)* A	**37.5** *(382, 28)*		**40** *(408, 30)*
Liter *(US qts, lmp.qts)*	**7.0** *(7.4, 6.2)*	**w/o Heater: 7.0** *(7.4, 6.2)* **w/ Heater: 7.8** *(8.2, 6.9)*	**8.5** *(9.0, 7.5)*
	-	**w/o Heater: 7.3** *(7.7, 6.4)* **w/ Heater: 8.1** *(8.6, 7.1)*	**9.8** *(10.4, 8.6)*

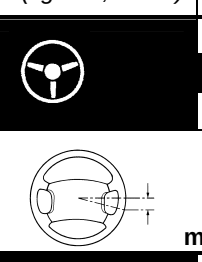
*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used
*4: ILSAC: International Lubricant Standardization and Approval Committee

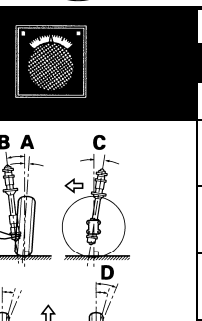
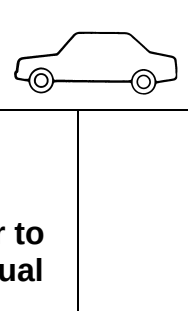
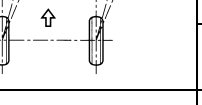
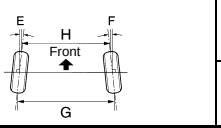
TOYOTA MOTOR CORPORATION Technical Service Division

			
	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197to 0.591)*	
	C	⬆ **25** *(0.984)*	
mm *(in.)*		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
mm *(in.)*		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
 **mm** *(in.)*	A	⬆ **1.0** *(0.0394)*	
	B	**23** *(0.906)*5* **26** *(1.024)*6*7*	**23** *(0.906)*5* **26** *(1.024)*6*7*
 **mm** *(in.)*		⬇ **256** *(10.079)*2*	⬇ **256** *(10.079)*2*
		⬇ **297** *(11.693)*4*	⬇ **297** *(11.693)*4*
		**2WD**	**4WD, Pre-Runner**
N*m *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*
		**1TR-FE**	**2TR-FE**	**1GR-FE**
		**2.2** *(2.3, 1.9)*	**2.6** *(2.7, 2.3)*2* **2.2** *(2.3, 1.9)*3*	**2.6**(2.7,2.3)*2* **2.2** *(2.3, 1.9)*3*
Liter *(US qts, Imp. qts)*		**API GL-4 SAE 75W-90**		
N*m *(kgf*cm, ft.*lbf)*	Ⓐ	**37** *(377, 27)*		
		**-**	**2.0** *(2.1, 1.8)*	**A750E:** *8* **A750F:** *9*
Liter *(US qts, Imp. qts)*		**-**	**Toyota Genuine ATF Type T-IV**	**Toyota Genuine ATF WS**
N*m *(kgf*cm, ft.*lbf)*	Ⓑ	**20** *(204, 15)*		

 **Liter** *(US qts, Imp. qts)*	Ⓒ	**1.0** *(1.1, 0.9)*	
N*m *(kgf*cm, ft.*lbf)*	Ⓒ	**Gear oil API GL-4 or GL-5 SAE 75W-90**	
 **Liter** *(US qts, Imp. qts)*	Ⓓ	**37** *(377, 27)*	

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	**1.60 to 1.70** *(1.69 to 1.79, 1.41 to 1.49)*	**SAE 75W-90**
Front diff. w/o A.D.D.	**1.40 to 1.50** *(1.48 to 1.58, 1.23 to 1.32)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (2WD and w/ LSD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (4WD and w/o LSD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (2WD and Made for DANA)	**2.30 to 2.40** *(2.43 to 2.54, 2.02 to 2.11)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	**2.40 to 2.50** *(2.54 to 2.64, 2.11 to 2.20)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 2WD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 4WD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ diff. lock)	**2.85 to 2.95** *(3.01 to 3.12, 2.51 to 2.60)*	**SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Item	**Oil grade**	
Front diff.	**Hypoid gear oil API GL-5 or equivalent**	
Rear diff. (2WD and w/o LSD)		
Rear diff. (w/ LSD)	**Hypoid gear oil LSD API GL-5 or equivalent**	

 **Liter** *(US qts, Imp. qts)*	Ⓓ	**39** *(400, 29)*10*	**49** *(500, 36)*11*
N*m *(kgf*cm, ft.*lbf)*			

		TGN, GGN	
 **mm** *(in.)*		⬇ **30** *(1.2)*	
			
	A	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	E+F		
	G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: 2WD *3: for 4WD
*4: for 4WD and Pre-runner *5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake
*7: for TMT and TSAM Made 2WD *8: Please refer to Repair Manual (A750E Automatic Transmission / Automatic Transmission Fluid)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels

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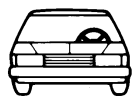
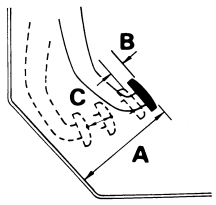
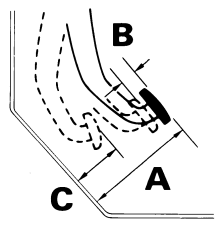
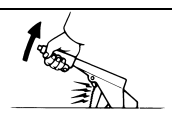
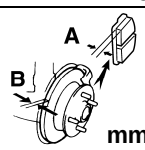
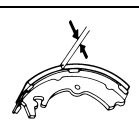
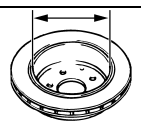
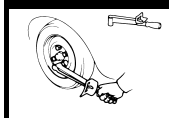
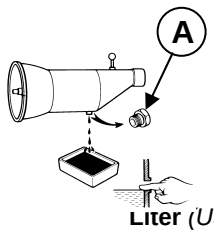
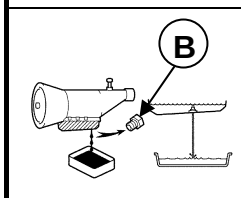
TGN10, 11, 15, 16, 26, 36
GGN15, 25, 35

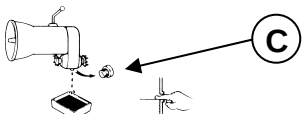
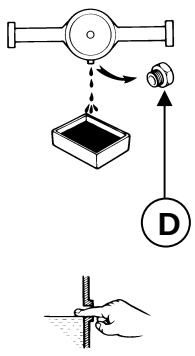
2012/04 - 2012/08

		TGN	GGN
*1		**Power Window Control System**	
		Meter / Gauge System	
20°C *(68°F)*		**1.25 to 1.29**	
		1TR-FE	**2TR-FE**	**1GR-FE**
	CC *(cu. in.)*	**1998** *(121.9)*	**2694** *(164.4)*	**3956** *(241.4)*
		Used / New		-
	DENSO	**K20HR-U11**	**K20HR-U11**	**K20HR-U11**
A	**NGK**	**-**	**-**	**LFR6C11**
	A **mm** *(in.)*	**1.0 to 1.1** *(0.039 to 0.043)*		
BTDC		**3 to 7°** (DLC3 terminals 13 (TC) - 4 (CG) connected)		**8 to 12°** DLC3 terminals 13 (TC) - 4 (CG) connected
		-	-	**0.15 to 0.25** *(0.006 to 0.010)*
mm *(in.)*		-	-	**0.29 to 0.39** *(0.011 to 0.015)*
[DLC3 terminal 9 (TAC) connected] **rpm**		**650 to 750**	**600 to 700**	**650 to 750**

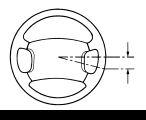
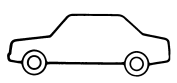
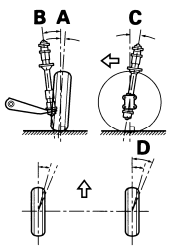
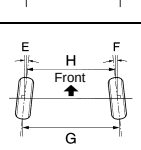
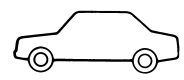
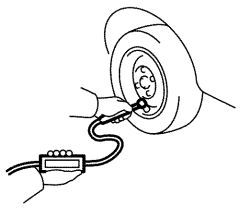
kPa *(kgf/cm², psi)*		**1230** *(12.5, 178)*	**1300** *(13.3, 189)*
		⬆ **880** *(9.0, 128)*	⬆ **1000** *(10.2, 145)*
		⬇ **68** *(0.7, 10)*	⬇ **100** *(1.0, 15)*
kPa *(kgf/cm², psi)*		⬆ **29** *(0.3, 4.2)*	
	3000 rpm	**160 to 490** *(1.6 to 5.0, 23 to 71)*	**294 to 588** *(3.0 to 6.0, 43 to 85)*
		1TR-FE	**2TR-FE**	**1GR-FE**
Liter *(US qts, lmp.qts)*		**5.3** *(5.6, 4.7)*		**5.2** *(5.5, 4.6)*
		5.6 *(5.9, 4.9)*		**5.5** *(5.8, 4.8)*
		20W-50 and 15W-40 **API grade SL or SM multigrade engine oil** **10W-30 and 5W-30** **API grade SL "Energy-Conserving", SM "Energy-Conserving" or ILSAC*4 multigrade engine oil**		
N*m *(kgf*cm, ft.*lbf)*	Ⓐ	**37.5** *(382, 28)*		**40** *(408, 30)*
Liter *(US qts, lmp.qts)*	1 3 5 2 4 R	**7.0** *(7.4, 6.2)*	**w/o Heater: 7.0** *(7.4, 6.2)* **w/ Heater: 7.8** *(8.2, 6.9)*	**8.5** *(9.0, 7.5)*
	P R N D 2 L	-	**w/o Heater: 7.3** *(7.7, 6.4)* **w/ Heater: 8.1** *(8.6, 7.1)*	**9.8** *(10.4, 8.6)*

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used
*4: ILSAC: International Lubricant Standardization and Approval Committee

			
 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
 mm *(in.)*	A	⬆ **1.0** *(0.0394)*	
	B	**23** *(0.906)*5* **26** *(1.024)*6*7*	**23** *(0.906)*5* **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*2*	⬇ **256** *(10.079)*2*
		⬇ **297** *(11.693)*4*	⬇ **297** *(11.693)*4*
		2WD	**4WD, Pre-Runner**
 N*m *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*
		1TR-FE	**2TR-FE**
 Liter *(US qts, Imp. qts)*	A	**2.2** *(2.3, 1.9)*	**2.6** *(2.7, 2.3)*2* **2.2** *(2.3, 1.9)*3*
		API GL-4 or GL-5 **SAE 75W-90**	
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*	
 Liter *(US qts, Imp. qts)*	B	-	**2.0** *(2.1, 1.8)*
		-	**Toyota Genuine ATF Type T-IV**
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*	

 Liter *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90**	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	
 Liter *(US qts, Imp. qts)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	**1.60 to 1.70** *(1.69 to 1.79, 1.41 to 1.49)*	**SAE 75W-90**
Front diff. w/o A.D.D.	**1.40 to 1.50** *(1.48 to 1.59, 1.23 to 1.32)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (2WD and w/ LSD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78to 2.86)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (4WD and w/o LSD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91to 2.99)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (2WD and Made for DANA)	**2.30 to 2.40** *(2.43 to 2.54, 2.02 to 2.11)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	**2.40 to 2.50** *(2.54 to 2.64, 2.11 to 2.20)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 2WD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 4WD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ diff. lock)	**2.85 to 2.95** *(3.01 to 3.12, 2.51 to 2.60)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Item	**Oil grade**	
Front diff.	**Hypoid gear oil API GL-5 or equivalent**	
Rear diff. (2WD and w/o LSD)		
Rear diff. (w/ LSD)	**Hypoid gear oil LSD API GL-5 or equivalent**	

		TGN, GGN	
 mm *(in.)*		⬇ **30** *(1.2)*	
			
	A B C D	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	E+F G-H		
			
 kPa *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: 2WD *3: for 4WD
*4: for 4WD and Pre-runner *5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake
*7: for TMT and TSAM Made 2WD *8: Please refer to Repair Manual (A750E Automatic Transmission / Automatic Transmission Fluid)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels

HILUX

TGN10, 11, 15, 16, 26, 36
GGN15, 25, 35

2012/08 - 2013/08

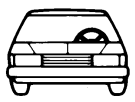
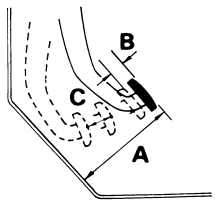
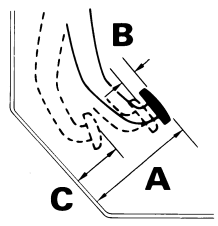
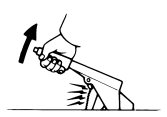
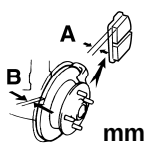
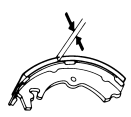
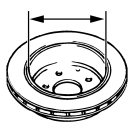
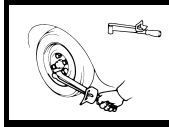
		TGN	GGN
	*1	Power Window Control System	
		Meter / Gauge System	
	20°C *(68°F)*	1.25 to 1.29	

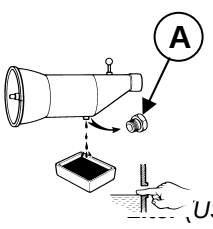
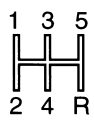
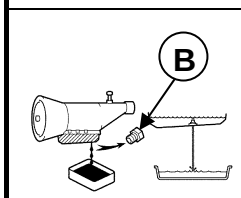
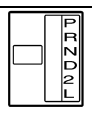
		1TR-FE	2TR-FE	1GR-FE
	CC *(cu. in.)*	1998 *(121.9)*	2694 *(164.4)*	3956 *(241.4)*
		Used / New		-
A	DENSO	K20HR-U11	K20HR-U11	K20HR-U11
A	NGK	-	-	LFR6C11
A	A mm *(in.)*	1.0 to 1.1 *(0.039 to 0.043)*		
	BTDC	3 to 7° (DLC3 terminals 13 (TC) - 4 (CG) connected)		8 to 12° (DLC3 terminals 13 (TC) - 4 (CG) connected)
	mm *(in.)*	-	-	0.15 to 0.25 *(0.006 to 0.010)*
	mm *(in.)*	-	-	0.29 to 0.39 *(0.011 to 0.015)*
	[DLC3 terminal 9 (TAC) connected] rpm	650 to 750	600 to 700	650 to 750

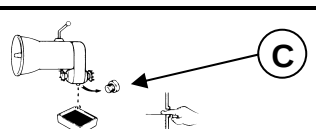
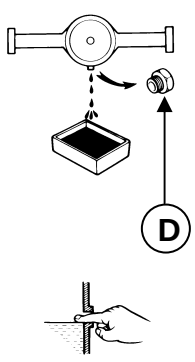
	kPa *(kgf/cm², psi)*	1230 *(12.5, 178)*	1300 *(13.3, 189)*
		880 *(9.0, 128)*	1000 *(10.2, 145)*
		68 *(0.7, 10)*	100 *(1.0, 15)*
	kPa *(kgf/cm², psi)*	29 *(0.3, 4.2)*	
	3000 rpm	160 to 490 *(1.6 to 5.0, 23 to 71)*	294 to 588 *(3.0 to 6.0, 43 to 85)*

		1TR-FE	2TR-FE	1GR-FE
	Liter *(US qts, lmp.qts)*	5.3 *(5.6, 4.7)*		5.2 *(5.5, 4.6)*
	Liter *(US qts, lmp.qts)*	5.6 *(5.9, 4.9)*		5.5 *(5.8, 4.8)*
	Liter *(US qts, lmp.qts)*	5W-30 and 10W-30: API grade SL "Energy-Conserving", SM "Energy-Conserving", SN "Resource-Conserving" or ILSAC*4 multigrade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multigrade engine oil		
A	N*m *(kgf*cm, ft.*lbf)*	37.5 *(382, 28)*		40 *(408, 30)*
	Liter *(US qts, lmp.qts)*	7.0 *(7.4, 6.2)*	w/o Heater: 7.0 *(7.4, 6.2)* w/ Heater: 7.8 *(8.2, 6.9)*	8.5 *(9.0, 7.5)*
	Liter *(US qts, lmp.qts)*	-	w/o Heater: 7.3 *(7.7, 6.4)* w/ Heater: 8.1 *(8.6, 7.1)*	9.8 *(10.4, 8.6)*

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used
*4: ILSAC: International Lubricant Standardization and Approval Committee

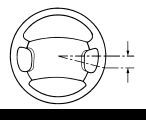
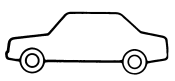
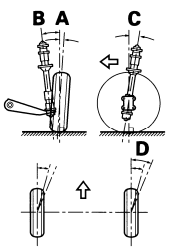
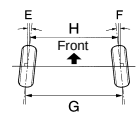
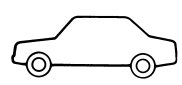
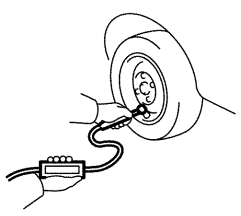
			
 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
 mm *(in.)*	A	⬆ **1.0** *(0.0394)*	
	B	**23** *(0.906)*5* **26** *(1.024)*6*7*	**23** *(0.906)*5* **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*2*	⬇ **256** *(10.079)*2*
		⬇ **297** *(11.693)*4*	⬇ **297** *(11.693)*4*
		2WD	**4WD, Pre-Runner**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*

		1TR-FE	**2TR-FE**	**1GR-FE**
 Liter *(US qts, Imp. qts)*		**2.2** *(2.3, 1.9)*	**2.6** *(2.7, 2.3)*2* **2.2** *(2.3, 1.9)*3*	-
		API GL-4 SAE 75W-90		
N*m *(kgf*cm, ft.*lbf)* Ⓐ		**37** *(377, 27)*		
 Liter *(US qts, Imp. qts)*		-	**2.0** *(2.1, 1.8)*	**A750E:** *8* **A750F:** *9*
		-	**Toyota Genuine ATF Type T-IV**	**Toyota Genuine ATF WS**
N*m *(kgf*cm, ft.*lbf)* Ⓑ		**20** *(204, 15)*		

 Liter *(US qts, Imp. qts)*	Ⓒ	**1.0** *(1.1, 0.9)*	
		Gear oil API GL-4 or GL-5 SAE 75W-90	
N*m *(kgf*cm, ft.*lbf)*	Ⓒ	**37** *(377, 27)*	
 Liter *(US qts, Imp. qts)*	Ⓓ	**39** *(400, 29)*10*	**49** *(500, 36)*11*

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	**1.60 to 1.70** *(1.69 to 1.79, 1.41 to 1.49)*	**SAE 75W-90**
Front diff. w/o A.D.D.	**1.40 to 1.50** *(1.48 to 1.59, 1.23 to 1.32)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (2WD and w/ LSD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TMT (4WD and w/o LSD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (2WD and Made for DANA)	**2.30 to 2.40** *(2.43 to 2.54, 2.02 to 2.11)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	**2.40 to 2.50** *(2.54 to 2.64, 2.11 to 2.20)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 2WD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 4WD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**
Rear diff. made for TSAM (w/ diff. lock)	**2.85 to 2.95** *(3.01 to 3.12, 2.51 to 2.60)*	**SAE 90 (⬆ -18°C (0°F))** **SAE 80W or 80W-90 (⬇ -18°C (0°F))**

Item	Oil grade
Front diff.	**Hypoid gear oil API GL-5 or equivalent**
Rear diff. (2WD and w/o LSD)	
Rear diff. (w/ LSD)	**Hypoid gear oil LSD API GL-5 or equivalent**

		TGN, GGN	
 mm *(in.)*		⬇ **30** *(1.2)*	
			
	A B C D	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	E+F G-H		
			
 kPa *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: 2WD *3: for 4WD
*4: for 4WD and Pre-runner *5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake
*7: for TMT and TSAM Made 2WD *8: Please refer to Repair Manual (A750E Automatic Transmission / Automatic Transmission Fluid)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels

HILUX

TGN10, 11, 15, 16, 26, 36
GGN15, 25, 35

2013/08 - 2014/08

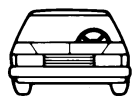
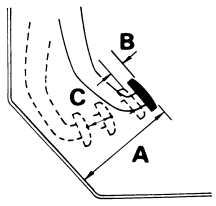
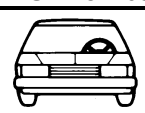
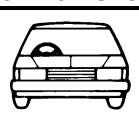
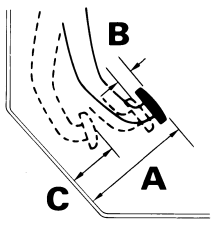
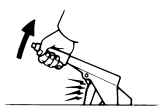
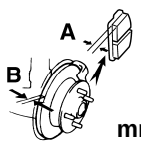
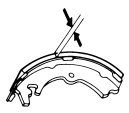
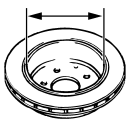
	TGN	GGN
*1	**Power Window Control System**	
	Meter / Gauge System	
20°C *(68°F)*	**1.25 to 1.29**	

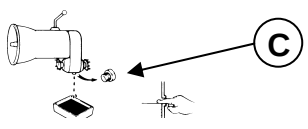
		1TR-FE	2TR-FE	1GR-FE
CC *(cu. in.)*		**1998** *(121.9)*	**2694** *(164.4)*	**3956** *(241.4)*
		Used / New		-
	DENSO	**K20HR-U11**	**K20HR-U11**	**K20HR-U11**
A	**NGK**	**-**	**-**	**LFR6C11**
	A **mm** *(in.)*	**1.0 to 1.1** *(0.039 to 0.043)*		
BTDC		**3 to 7°** (DLC3 terminals 13 (TC) - 4 (CG) connected)		**8 to 12°** DLC3 terminals 13 (TC) - 4 (CG) connected
mm *(in.)*		**-**	**-**	**0.15 to 0.25** *(0.006 to 0.010)*
		-	**-**	**0.29 to 0.39** *(0.011 to 0.015)*
[DLC3 terminal 9 (TAC) connected] **rpm**		**650 to 750**	**600 to 700**	**650 to 750**

kPa *(kgf/cm², psi)*		**1230** *(12.5, 178)*	**1300** *(13.3, 189)*
		880 *(9.0, 128)*	**1000** *(10.2, 145)*
		68 *(0.7, 10)*	**100** *(1.0, 15)*
kPa *(kgf/cm², psi)*		**29** *(0.3, 4.2)*	
	3000 rpm	**160 to 490** *(1.6 to 5.0, 23 to 71)*	**294 to 588** *(3.0 to 6.0, 43 to 85)*

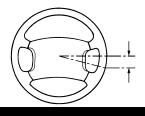
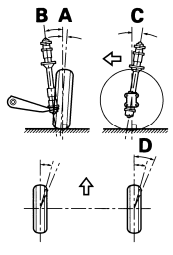
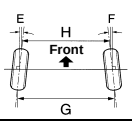
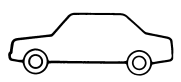
		1TR-FE	2TR-FE	1GR-FE
Liter *(US qts, lmp.qts)*		**5.3** *(5.6, 4.7)*		**5.2** *(5.5, 4.6)*
		5.6 *(5.9, 4.9)*		**5.5** *(5.8, 4.8)*
		5W-30 and 10W-30: **API grade SL "Energy-Conserving", SM "Energy-Conserving", SN "Resource-Conserving" or ILSAC*4 multigrade engine oil** **15W-40 and 20W-50:** **API grade SL, SM or SN multigrade engine oil**		
N*m *(kgf*cm, ft.*lbf)*	A	**37.5** *(382, 28)*		**40** *(408, 30)*
Liter *(US qts, lmp.qts)*	1 3 5 2 4 R	**7.0** *(7.4, 6.2)*	**w/o Heater: 7.0** *(7.4, 6.2)* **w/ Heater: 7.8** *(8.2, 6.9)*	**-**
	P R N D 2 L	**-**	**w/o Heater: 7.3** *(7.7, 6.4)* **w/ Heater: 8.1** *(8.6, 7.1)*	**9.8** *(10.4, 8.6)*

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used
*4: ILSAC: International Lubricant Standardization and Approval Committee

			
 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197to 0.591)*	
	C	**25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
 mm *(in.)*	A	**M/T 168.3 to 178.3** *(6.626 to 7.019)* **A/T 169.3 to 179.3** *(6.666 to 7.059)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1 w/ VSC:	**90** *(3.543)*	**83** *(3.268)*
	C*1 w/o VSC:	**89** *(3.504)*2* **96** *(3.780)*3*5* **87** *(3.425)*3*6*	**82** *(3.228)*2* **89** *(3.504)*4*5* **80** *(3.150)*4*6*
mm *(in.)*		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
 mm *(in.)*	A	**1.0** *(0.0394)*	
	B	**23** *(0.906)*5* **26** *(1.024)*6*7*	**23** *(0.906)*5* **26** *(1.024)*6*7*
 mm *(in.)*		**1.0** *(0.0394)*	
 mm *(in.)*		**256** *(10.079)*2*	**256** *(10.079)*2*
		297 *(11.693)*4*	**297** *(11.693)*4*
		2WD	**4WD, Pre-Runner**
N*m *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)* *12* **121** *(1234, 89)* *13*	**105** *(1071, 77)*
		1TR-FE	**2TR-FE**	**1GR-FE**
Liter *(US qts, Imp. qts)* N*m *(kgf*cm, ft.*lbf)*		**2.2** *(2.3, 1.9)*	**2.6** *(2.7, 2.3)*2* **2.2** *(2.3, 1.9)*3*	-
		API GL-4 SAE 75W-90, 80W or 80W-90		
	A	**37** *(377, 27)*		
Liter *(US qts, Imp. qts)* N*m *(kgf*cm, ft.*lbf)*		-	**2.0** *(2.1, 1.8)*	**A750E:** *8* **A750F:** *9*
		-	**Toyota Genuine ATF Type T-IV**	**Toyota Genuine ATF WS**
	B	**20** *(204, 15)*		

 Liter *(US qts, Imp. qts)*		**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90** **Toyota Genuine Transfer Gear Oil LF or Equivalent SAE 75W**	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	**1.60 to 1.70** *(1.69 to 1.79, 1.41 to 1.49)*	**SAE 75W-90**
Front diff. w/o A.D.D.	**1.40 to 1.50** *(1.48 to 1.59, 1.23 to 1.32)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TMT (2WD and w/ LSD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TMT (4WD and w/o LSD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TSAM (2WD and Made for DANA)	**2.30 to 2.40** *(2.43 to 2.54, 2.02 to 2.11)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	**2.40 to 2.50** *(2.54 to 2.64, 2.11 to 2.20)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 2WD)	**3.15 to 3.25** *(3.33 to 3.43, 2.78 to 2.86)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TSAM (w/ LSD for 4WD)	**3.30 to 3.40** *(3.49 to 3.59, 2.91 to 2.99)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Rear diff. made for TSAM (w/ diff. lock)	**2.85 to 2.95** *(3.01 to 3.12, 2.51 to 2.60)*	**SAE 90 (↑ -18°C (0°F))** **SAE 80W or 80W-90 (↓ -18°C (0°F))**
Item	**Oil grade**	
Front diff.	**Hypoid gear oil API GL-5 or equivalent**	
Rear diff. (2WD and w/o LSD)		
Rear diff. (w/ LSD)	**Hypoid gear oil LSD API GL-5 or equivalent**	

Liter *(US qts, Imp. qts)* N*m *(kgf*cm, ft.*lbf)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*
		TGN, GGN	
 mm *(in.)*		**30** *(1.2)*	
			
	A	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	E+F		
	G-H		
			
kPa *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: 2WD *3: for 4WD
*4: for 4WD and Pre-runner *5: for 15 inch Front Disc Brake *6: for 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD
*8: Please refer to Repair Manual (A750E Automatic Transmission / Automatic Transmission Fluid)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels

HILUX

TGN10, 11, 15, 16, 26, 36
GGN15, 25, 35

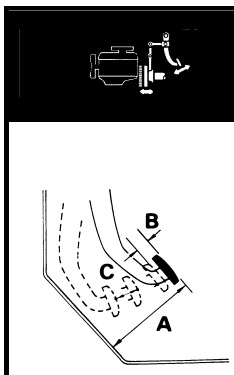
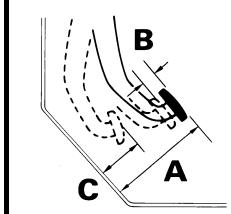
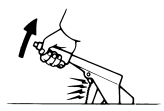
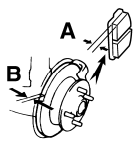
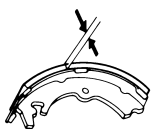
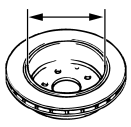
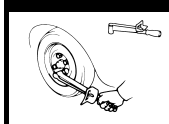
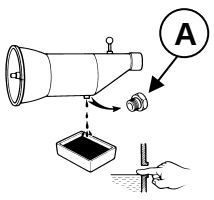
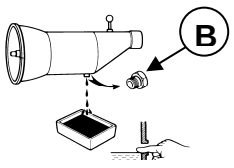
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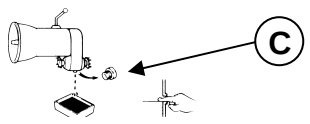
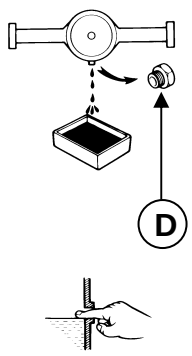
		TGN	GGN
*1		Power Window Control System	
		Meter / Gauge System	
20°C *(68°F)*		1.25 to 1.29	
		1TR-FE	2TR-FE	1GR-FE
	CC *(cu. in.)*	1998 *(121.9)*	2694 *(164.4)*	3956 *(241.4)*
		Used / New		-
	DENSO	K20HR-U11	K20HR-U11	K20HR-U11
A	NGK	-	-	LFR6C11
	A mm *(in.)*	1.0 to 1.1 *(0.039 to 0.043)*		
BTDC		3 to 7° (DLC3 terminals 13 (TC) - 4 (CG) connected)		8 to 12° (DLC3 terminals 13 (TC) - 4 (CG) connected)
		-	-	0.15 to 0.25 *(0.006 to 0.010)*
mm *(in.)*		-	-	0.29 to 0.39 *(0.011 to 0.015)*
[DLC3 terminal 9 (TAC) connected] rpm		650 to 750	600 to 700	650 to 750

kPa *(kgf/cm², psi)*		1230 *(12.5, 178)*	1300 *(13.3, 189)*
		880 *(9.0, 128)*	1000 *(10.2, 145)*
		68 *(0.7, 10)*	100 *(1.0, 15)*
kPa *(kgf/cm², psi)*		29 *(0.3, 4.2)*	
	3000 rpm	160 to 490 *(1.6 to 5.0, 23 to 71)*	294 to 588 *(3.0 to 6.0, 43 to 85)*
		1TR-FE	2TR-FE	1GR-FE
Liter *(US qts, lmp.qts)*		5.3 *(5.6, 4.7)*		5.2 *(5.5, 4.6)*
		5.6 *(5.9, 4.9)*		5.5 *(5.8, 4.8)*
		5W-30 and 10W-30: API grade SL "Energy-Conserving", SM "Energy-Conserving", SN "Resource-Conserving" or ILSAC*4 multigrade engine oil 15W-40 and 20W-50: API grade SL, SM or SN multigrade engine oil		
N*m *(kgf*cm, ft.*lbf)*	A	37.5 *(382, 28)*		40 *(408, 30)*
Liter *(US qts, lmp.qts)*	1 3 5 / 2 4 R	7.0 *(7.4, 6.2)*	w/o Heater: 7.0 *(7.4, 6.2)* w/ Heater: 7.8 *(8.2, 6.9)*	-
	P R N D 2 L	-	w/o Heater: 7.3 *(7.7, 6.4)* w/ Heater: 8.1 *(8.6, 7.1)*	9.8 *(10.4, 8.6)*

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used
*4: ILSAC: International Lubricant Standardization and Approval Committee

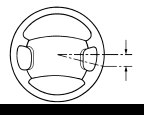
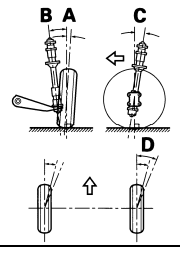
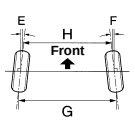
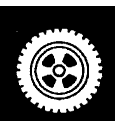
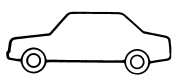
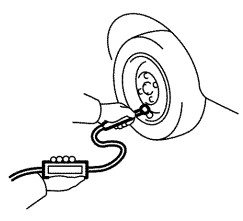
TOYOTA MOTOR CORPORATION Technical Service Division

 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
	A	⬆ **1.0** *(0.0394)*	
	B	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*	⬇ **256** *(10.079)*
		⬇ **297** *(11.693)*	⬇ **297** *(11.693)*
		2WD	**4WD**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(15.5, 112)*12* **121** *(12.3, 89)*13*	**105** *(10.7, 77)*
		1KD-FTV	**2KD-FTV** / **5L-E**
 **Liter** *(US qts, Imp. qts)*	1 3 5 / 2 4 R	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3*	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3 *14* / **2.2** (2.3, 1.9)*2 **2.6** *(2.7, 2.3)*3*
		API GL-4 SAE 75W-90	
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*	
 **Liter** *(US qts, Imp. qts)*	PRND2L	**A340E/F:*8** **A750F:*9**	**2.0** *(2.1, 1.8)* / **Toyota Genuine ATF Type T-IV** / **-**
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*	**-**

 **Liter** *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Hypoid gear oil API GL-4 or GL-5 SAE 75W-90	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	
	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	1.60 to 1.70 *(1.69 to 1.79, 1.41 to 1.49)*	SAE 75W-90
Front diff. w/o A.D.D.	1.40 to 1.50 *(1.48 to 1.58, 1.23 to 1.32)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (2WD and w/ LSD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (4WD and w/o LSD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (2WD and Made for DANA)	2.30 to 2.40 *(2.43 to 2.54, 2.02 to 2.11)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	2.40 to 2.50 *(2.54 to 2.64, 2.11 to 2.20)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 2WD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 4WD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ diff. lock)	2.85 to 2.95 *(3.01 to 3.12, 2.51 to 2.60)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 85W-90 (⬇ -18°C (0°F))

Item	Oil grade
Front diff.	Hypoid gear oil API GL-4 or GL-5 or equivalent
Rear diff. (2WD and w/o LSD)	Hypoid gear oil API GL-5 or equivalent
Rear diff. (w/ LSD)	Hypoid gear oil LSD API GL-5 or equivalent

Liter *(US qts, Imp. qts)*			
N*m *(kgf*cm, ft.*lbf)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*
		**KUN, LAN**	
 mm *(in.)*		⬇ **30** *(1.2)*	
			
	A / B / C / D	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	E+F / G-H		
			
 **kPa** *(kgf/cm², psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: for 2WD *3: for 4WD *4: for 4WD and Pre-runner
*5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD
*8: Please refer to Repair Manual (Preparation / Automatic Transmission A340E/F)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: Steel wheels *13: Aluminum wheels *14: for Manual Transmission G50 / G55

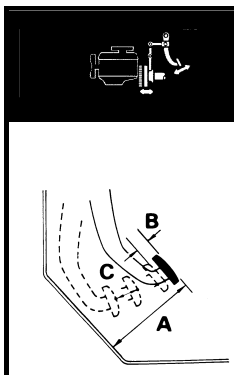
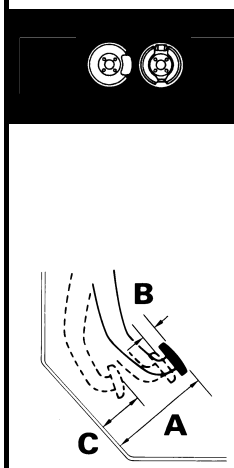
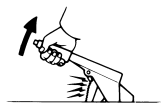
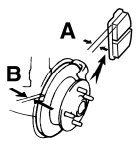
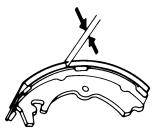
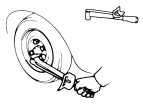
		KUN	LAN
	*1	Power Window Control System	
		Meter / Gauge System	
20°C (68°F)		1.25 to 1.29	

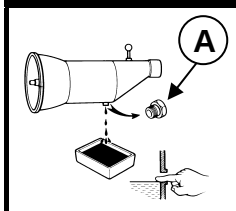
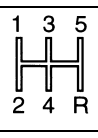
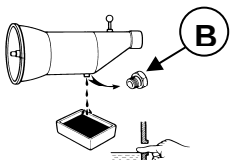
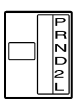
		1KD-FTV	2KD-FTV	5L-E
CC *(cu. in.)*		**2982** *(182.0)*	**2494** *(152.2)*	**2986** *(182.2)*
	*2 *3			-
mm *(in.)* N *(kgf)*		-	-	**7.0 to 10** *(0.28 to 0.39)* ***441 to 539** *(45 to 55)*
		-	-	**11 to 15** *(0.43 to 0.59)* ***372 to 608** *(38 to 62)*
		-	-	**7.5 to 9.5** *(0.30 to 0.37)* ***441 to 539** *(45 to 55)*
20°C *(68°F)* ohm		**0.95** **1.00*4**	**0.95** **1.00*4**	**0.72**
secs.		**3.0** 0°C *(32°F)*	**3.5** **3.0*4** 0°C *(32°F)*	**4.5** 8°C *(46°F)*
mm *(in.)*		**0.20 to 0.30** *(0.008 to 0.012)*		
		0.35 to 0.45 *(0.014 to 0.018)*		**0.40 to 0.50** (0.016 to 0.020)
rpm	1 3 5 / 2 4 R	**700 to 800**		**720 to 820**
	PNDNL	**700 to 800**		-
		4450 to 4750		**4850 to 4950**

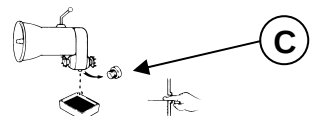
kPa *(kgf/cm², psi)*		**2700** *(27.5, 391)*	**3138** *(32.0, 455)*
		2200 *(22.5, 320)*	**1961** *(20.0, 284)*
		500 *(5.0, 71)*	**490** *(5.0, 71)*
kPa *(kgf/cm², psi)*		**29** *(0.3, 4.2)*	
	3000 rpm	**245** *(2.5, 36)*	**294 to 539** *(3.0 to 5.5, 43 to 78)*

		1KD-FTV	2KD-FTV	5L-E
Liter *(US qts, Imp. qts)*		**6.6** *(7.0, 5.8)*	**6.6** *(7.0, 5.8)*	**6.7** *(7.1, 5.9)*
		6.9 *(7.3, 6.1)*	**6.9** *(7.3, 6.1)*	**7.2** *(7.6, 6.3)*
		ACEA C2*4		G-DLD1, API CF-4 or CF
		G-DLD1, API CF-4, CF or ACEA B1		
N*m *(kgf*cm, ft.*lbf)*	A	**34** *(347, 25)*	**34** *(347, 25)*	**35** *(357, 26)*
Liter *(US qts, Imp. qts)*	1 3 5 / 2 4 R	**9.8** *(10.4, 8.6)*	**w/o EGR Cooler: 9.0** *(9.5, 7.9)* **w/ EGR Cooler: 9.8** *(10.4, 8.6)*	**9.4** *(9.9, 8.3)*
	PNDNL	**11.1** *(11.7, 9.8)*	-	-

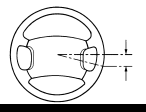
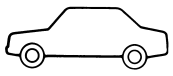
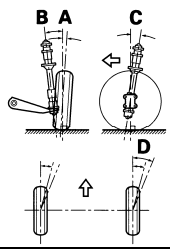
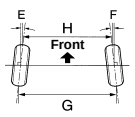
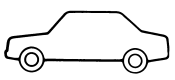
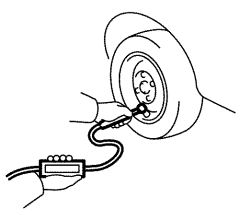
*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: Exchange *3: Used *4: for DPF

 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
	A	⬆ **1.0** *(0.0394)*	
	B	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*	⬇ **256** *(10.079)*
		⬇ **297** *(11.693)*	⬇ **297** *(11.693)*
		2WD	**4WD, Pre-Runner**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*

		1KD-FTV	**2KD-FTV**	**5L-E**
 **Liter** *(US qts, Imp. qts)*		**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3*	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3 *14*	**2.2** (2.3, 1.9)*2 **2.6** *(2.7, 2.3)*3*
		API GL-4 SAE 75W-90		
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*		
 **Liter** *(US qts, Imp. qts)*		**A340E/F:*8** **A750F:*9**	**2.0** *(2.1, 1.8)*	-
		A340E/F:*8 **A750F:*9**	**Toyota Genuine ATF Type T-IV**	-
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*		-

 **Liter** *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90**	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	1.60 to 1.70 *(1.69 to 1.79, 1.41 to 1.49)*	SAE 75W-90
Front diff. w/o A.D.D.	1.40 to 1.50 *(1.48 to 1.58, 1.23 to 1.32)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (2WD and w/ LSD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (4WD and w/o LSD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (2WD and Made for DANA)	2.30 to 2.40 *(2.43 to 2.54, 2.02 to 2.11)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	2.40 to 2.50 *(2.54 to 2.64, 2.11 to 2.20)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 2WD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 4WD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ diff. lock)	2.85 to 2.95 *(3.01 to 3.12, 2.51 to 2.60)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Item	Oil grade	
Front diff.	Hypoid gear oil API GL-4 or GL-5 or equivalent	
Rear diff. (2WD and w/o LSD)	Hypoid gear oil API GL-5 or equivalent	
Rear diff. (w/ LSD)	Hypoid gear oil LSD API GL-5 or equivalent	

Liter *(US qts, Imp. qts)*			
N*m *(kgf*cm, ft.*lbf)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*
		KUN, LAN	
 **mm** *(in.)*		⬇ **30** *(1.2)*	
			
	A B C D	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	E+F G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: for 2WD *3: for 4WD *4: for 4WD and Pre-runner
*5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD
*8: Please refer to Repair Manual (Preparation / Automatic Transmission A340E/F)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels *14: for Manual Transmission G50 / G55

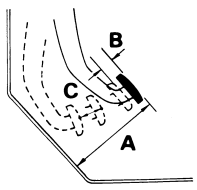
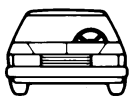
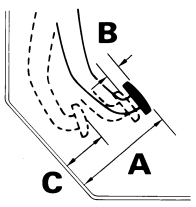
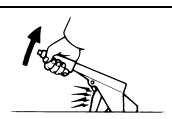
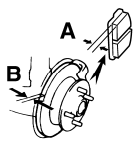
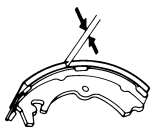
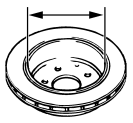
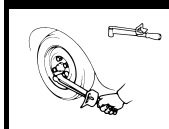
		KUN	LAN
	*1	Power Window Control System	
		Meter / Gauge System	
20°C (68°F)		1.25 to 1.29	

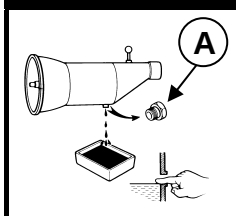
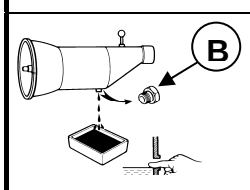
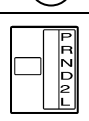
		1KD-FTV	2KD-FTV	5L-E
CC *(cu. in.)*		2982 *(182.0)*	2494 *(152.2)*	2986 *(182.2)*
	Used / New			-
mm *(in.)* N *(kgf)*		-	-	7.0 to 10 *(0.28 to 0.39)* *441 to 539 *(45 to 55)*
		-	-	11 to 15 *(0.43 to 0.59)* *372 to 608 *(38 to 62)*
		-	-	7.5 to 9.5 *(0.30 to 0.37)* *441 to 539 *(45 to 55)*
20°C *(68°F)* ohm		0.95 1.00*4	0.95 1.00*4	0.72
secs.		3.0 0°C *(32°F)*	3.5 3.0*4 0°C *(32°F)*	4.5 8°C *(46°F)*
mm *(in.)*		0.20 to 0.30 *(0.008 to 0.012)*		
		0.35 to 0.45 *(0.014 to 0.018)*		0.40 to 0.50 (0.016 to 0.020)
rpm	1 3 5 / 2 4 R	700 to 800		720 to 820
	P R N D 2 L	700 to 800		-
		4450 to 4750		4850 to 4950

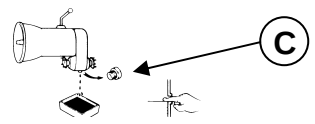
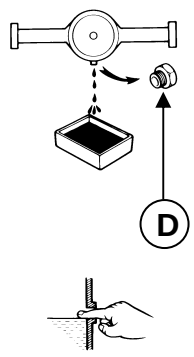
kPa *(kgf/cm², psi)*		2700 *(27.5, 391)*	3138 *(32.0, 455)*
		2200 *(22.5, 320)*	1961 *(20.0, 284)*
		500 *(5.0, 71)*	490 *(5.0, 71)*
		29 *(0.3, 4.2)*	
	3000 rpm	245 *(2.5, 36)*	294 to 539 *(3.0 to 5.5, 43 to 78)*

		1KD-FTV	2KD-FTV	5L-E
Liter *(US qts, Imp. qts)*		6.6 *(7.0, 5.8)*	6.6 *(7.0, 5.8)*	6.7 *(7.1, 5.9)*
		6.9 *(7.3, 6.1)*	6.9 *(7.3, 6.1)*	7.2 *(7.6, 6.3)*
		ACEA C2*4		G-DLD1, API CF-4 or CF
		G-DLD1, API CF-4, CF or ACEA B1		
N*m *(kgf*cm, ft.*lbf)*	A	34 *(347, 25)*	34 *(347, 25)*	35 *(357, 26)*
Liter *(US qts, Imp. qts)*	1 3 5 / 2 4 R	9.8 *(10.4, 8.6)*	w/o EGR Cooler: 9.0 *(9.5, 7.9)* w/ EGR Cooler: 9.8 *(10.4, 8.6)*	9.4 *(9.9, 8.3)*
	P R N D 2 L	11.1 *(11.7, 9.8)*	-	-

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used *4: for DPF

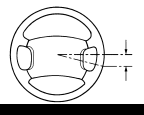
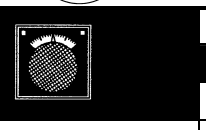
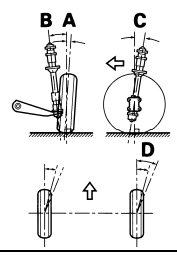
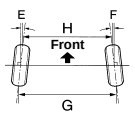
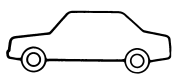
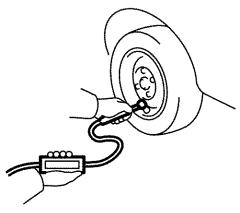
			
 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
	A	⬆ **1.0** *(0.0394)*	
	B	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)* ⬇ **297** *(11.693)*	⬇ **256** *(10.079)* ⬇ **297** *(11.693)*
		2WD	**4WD, Pre-Runner**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*

		1KD-FTV	**2KD-FTV**	**5L-E**
 **Liter** *(US qts, Imp. qts)*		**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3*	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3 *14*	**2.2** (2.3, 1.9)*2 **2.6** *(2.7, 2.3)*3*
		API GL-4 SAE 75W-90		
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*		
 **Liter** *(US qts, Imp. qts)*		**A340E/F:*8** **A750F:*9**	**2.0** *(2.1, 1.8)*	-
		A340E/F:*8 **A750F:*9**	**Toyota Genuine ATF Type T-IV**	-
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*		-

 **Liter** *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90**	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	
 **Liter** *(US qts, Imp. qts)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	1.60 to 1.70 *(1.69 to 1.79, 1.41 to 1.49)*	SAE 75W-90
Front diff. w/o A.D.D.	1.40 to 1.50 *(1.48 to 1.58, 1.23 to 1.32)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (2WD and w/ LSD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (4WD and w/o LSD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (2WD and Made for DANA)	2.30 to 2.40 *(2.43 to 2.54, 2.02 to 2.11)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	2.40 to 2.50 *(2.54 to 2.64, 2.11 to 2.20)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 2WD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 4WD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ diff. lock)	2.85 to 2.95 *(3.01 to 3.12, 2.51 to 2.60)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))

Item	Oil grade
Front diff.	Hypoid gear oil API GL-4 or GL-5 or equivalent
Rear diff. (2WD and w/o LSD)	Hypoid gear oil API GL-5 or equivalent
Rear diff. (w/ LSD)	Hypoid gear oil LSD API GL-5 or equivalent

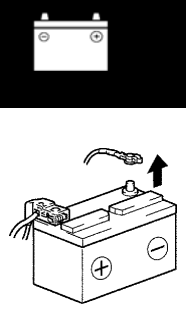
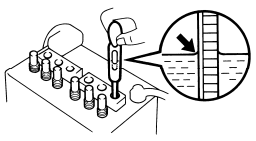
		**KUN, LAN**	
 **mm** *(in.)*		⬇ **30** *(1.2)*	
			
	A	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	E+F		
	G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

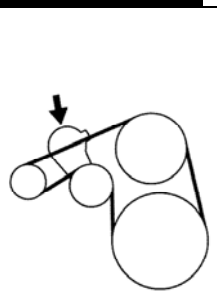
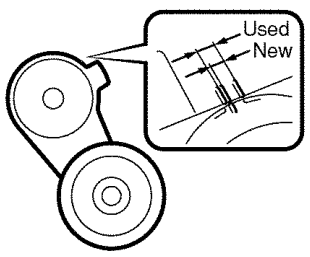
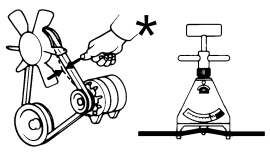
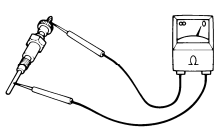
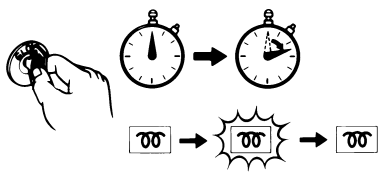
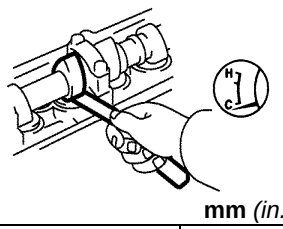
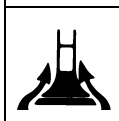
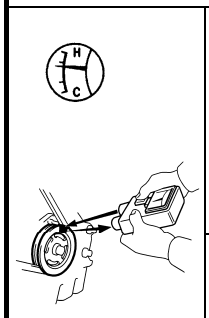
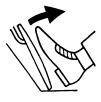
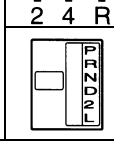
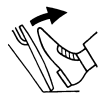
*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: for 2WD *3: for 4WD *4: for 4WD and Pre-runner
*5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD
*8: Please refer to Repair Manual (Preparation / Automatic Transmission A340E/F)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels *14: for Manual Transmission G50 / G55

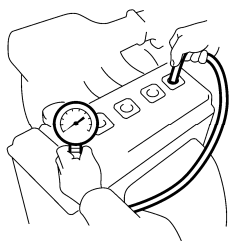
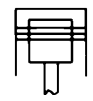
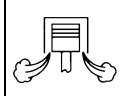
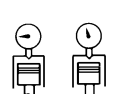
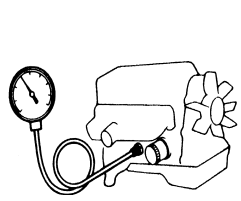
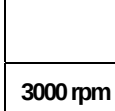
HILUX Diesel

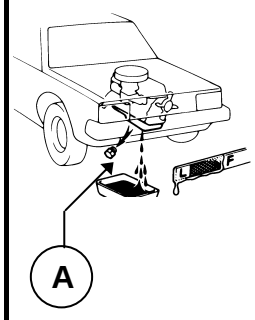
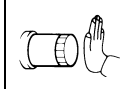
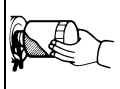
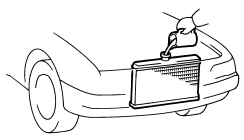
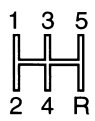
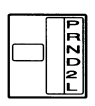
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KUN10, 15, 16, 25, 26, 35, 36

2012/08 - 2013/08

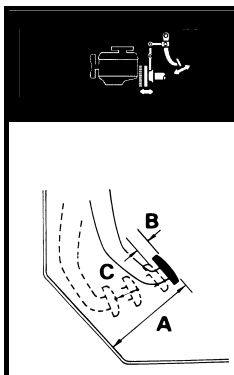
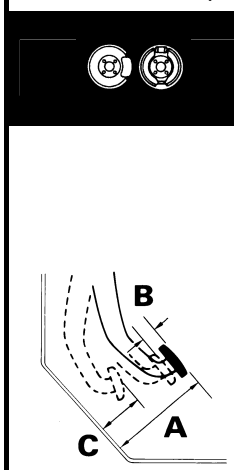
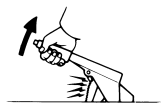
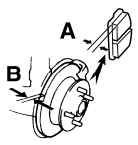
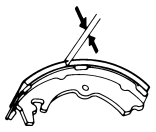
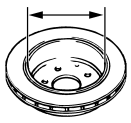
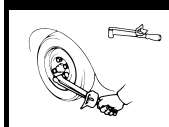
		KUN	LAN
	*1	Power Window Control System	
		Meter / Gauge System	
 **20°C** (68°F)		1.25 to 1.29	

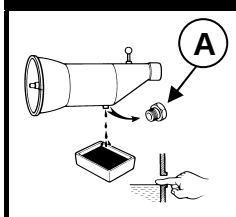
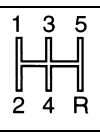
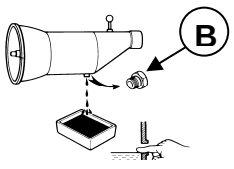
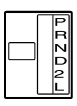
		1KD-FTV	2KD-FTV	5L-E
CC *(cu. in.)*		**2982** *(182.0)*	**2494** *(152.2)*	**2986** *(182.2)*
				-
 **mm** *(in.)* **N** *(kgf)*		-	-	**7.0 to 10** *(0.28 to 0.39)* ***441 to 539** *(45 to 55)*
		-	-	**11 to 15** *(0.43 to 0.59)* ***372 to 608** *(38 to 62)*
		-	-	**7.5 to 9.5** *(0.30 to 0.37)* ***441 to 539** *(45 to 55)*
 **20°C** *(68°F)* **ohm**		**0.95** **1.00*4**	**0.95** **1.00*4**	**0.72**
 **secs.**		**3.0** **0°C** *(32°F)*	**3.5** **3.0*4** **0°C** *(32°F)*	**4.5** **8°C** *(46°F)*
 **mm** *(in.)*		**0.20 to 0.30** *(0.008 to 0.012)*		
		**0.35 to 0.45** *(0.014 to 0.018)*	**0.40 to 0.50** (0.016 to 0.020)	
 **rpm**	 1 3 5 / 2 4 R	**700 to 800**		**720 to 820**
	 P R N D 2 L	**700 to 800**		-
		**4450 to 4750**		**4850 to 4950**

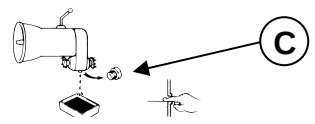
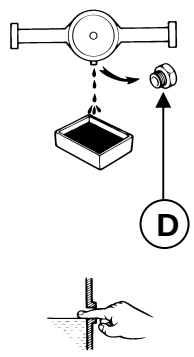
 **kPa** *(kgf/cm², psi)*		**2700** *(27.5, 391)*		**3138** *(32.0, 455)*
		**2200** *(22.5, 320)*		**1961** *(20.0, 284)*
		**500** *(5.0, 71)*		**490** *(5.0, 71)*
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.2)*		
	 3000 rpm	**245** *(2.5, 36)*		**294 to 539** *(3.0 to 5.5, 43 to 78)*

		1KD-FTV	2KD-FTV	5L-E
 **Liter** *(US qts, Imp. qts)*		**6.6** *(7.0, 5.8)*	**6.6** *(7.0, 5.8)*	**6.7** *(7.1, 5.9)*
		**6.9** *(7.3, 6.1)*	**6.9** *(7.3, 6.1)*	**7.2** *(7.6, 6.3)*
		ACEA C2*4		**G-DLD1, API CF-4 or CF**
		G-DLD1, API CF-4, CF or ACEA B1		
N*m *(kgf*cm, ft.*lbf)*	A	**34** *(347, 25)*		**35** *(357, 26)*
 **Liter** *(US qts, Imp. qts)*	 1 3 5 / 2 4 R	**9.8** *(10.4, 8.6)*		**9.4** *(9.9, 8.3)*
	 P R N D 2 L	**11.1** *(11.7, 9.8)*		-

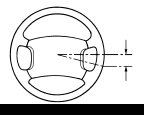
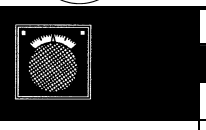
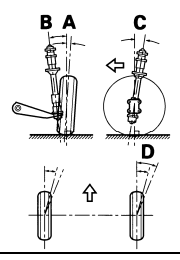
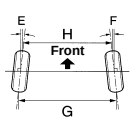
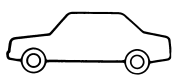
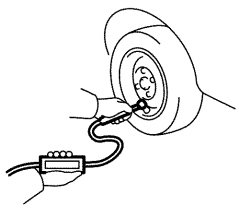
*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used *4: for DPF

 mm *(in.)*	A	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 mm *(in.)*	A	**M/T 152.9 to 162.9** *(6.020 to 6.413)* **A/T 154.1 to 164.1** *(6.067 to 6.461)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1	⬆ **78** *(3.071)*2* ⬆ **85** *(3.347)*3*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*
		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
	A	⬆ **1.0** *(0.0394)*	
	B	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*	⬆ **23** *(0.906)*5* ⬆ **26** *(1.024)*6*7*
 mm *(in.)*		⬆ **1.0** *(0.0394)*	
 mm *(in.)*		⬇ **256** *(10.079)*	⬇ **256** *(10.079)*
		⬇ **297** *(11.693)*	⬇ **297** *(11.693)*
		2WD	**4WD, Pre-Runner**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*

		1KD-FTV	**2KD-FTV**	**5L-E**
 **Liter** *(US qts, Imp. qts)*		**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3*	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3 *14*	**2.2** (2.3, 1.9)*2 **2.6** *(2.7, 2.3)*3*
		API GL-4 SAE 75W-90		
N*m *(kgf*cm, ft.*lbf)*	A	**37** *(377, 27)*		
 **Liter** *(US qts, Imp. qts)*		**A340E/F:*8** **A750F:*9**	**2.0** *(2.1, 1.8)*	-
		A340E/F:*8 **A750F:*9**	**Toyota Genuine ATF Type T-IV**	-
N*m *(kgf*cm, ft.*lbf)*	B	**20** *(204, 15)*		-

 **Liter** *(US qts, Imp. qts)*	C	**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90**	
N*m *(kgf*cm, ft.*lbf)*	C	**37** *(377, 27)*	
 **Liter** *(US qts, Imp. qts)*	D	**39** *(400, 29)*10*	**49** *(500, 36)*11*

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	1.60 to 1.70 *(1.69 to 1.79, 1.41 to 1.49)*	SAE 75W-90
Front diff. w/o A.D.D.	1.40 to 1.50 *(1.48 to 1.58, 1.23 to 1.32)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (2WD and w/ LSD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (4WD and w/o LSD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (2WD and Made for DANA)	2.30 to 2.40 *(2.43 to 2.54, 2.02 to 2.11)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	2.40 to 2.50 *(2.54 to 2.64, 2.11 to 2.20)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 2WD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 4WD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ diff. lock)	2.85 to 2.95 *(3.01 to 3.12, 2.51 to 2.60)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Item	**Oil grade**	
Front diff.	Hypoid gear oil API GL-4 or GL-5 or equivalent	
Rear diff. (2WD and w/o LSD)	Hypoid gear oil API GL-5 or equivalent	
Rear diff. (w/ LSD)	Hypoid gear oil LSD API GL-5 or equivalent	

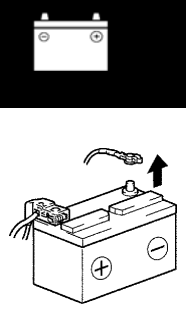
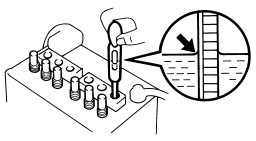
		**KUN, LAN**	
 **mm** *(in.)*		⬇ **30** *(1.2)*	
			
	A	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	E+F		
	G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

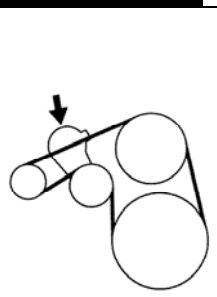
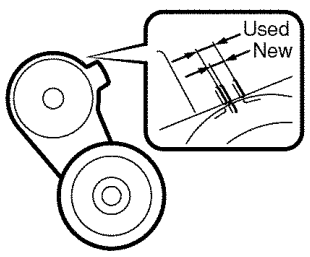
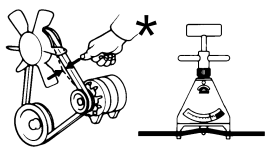
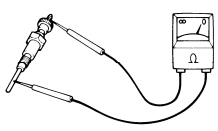
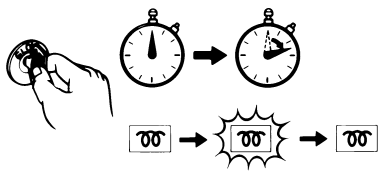
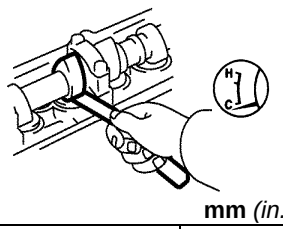
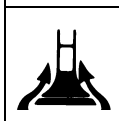
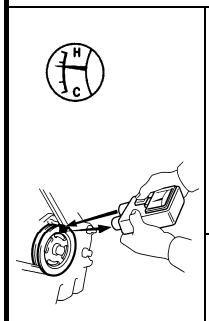
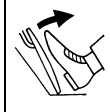
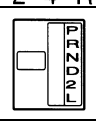
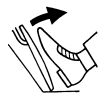
*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: for 2WD *3: for 4WD *4: for 4WD and Pre-runner
*5: for 4WD and Pre-runner, and 15 inch Front Disc Brake *6: for 4WD and Pre-runner, and 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD
*8: Please refer to Repair Manual (Preparation / Automatic Transmission A340E/F)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels *14: for Manual Transmission G50 / G55

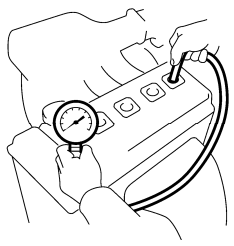
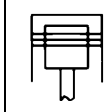
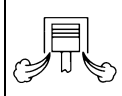
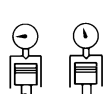
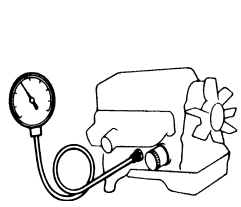
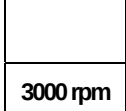
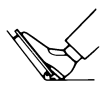
HILUX Diesel

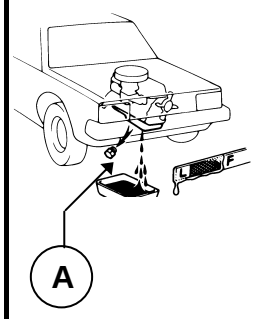
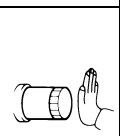
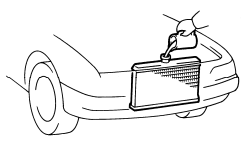
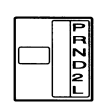
LAN15, 25, 35
KUN10, 15, 16, 25, 26, 35, 36

2013/08 - 2014/08

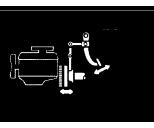
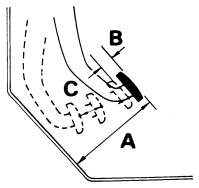
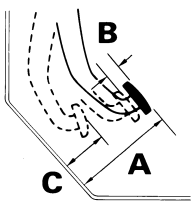
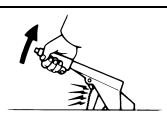
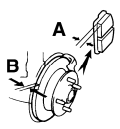
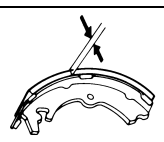
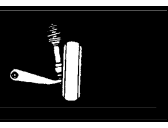
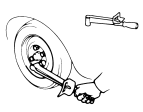
		KUN	LAN
	*1	Power Window Control System	
		Meter / Gauge System	
 **20°C** (68°F)		1.25 to 1.29	

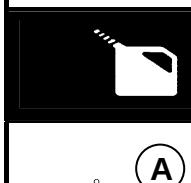
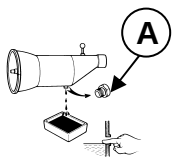
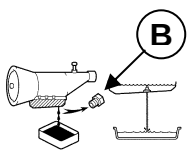
		1KD-FTV	2KD-FTV	5L-E
	CC *(cu. in.)*	**2982** *(182.0)*	**2494** *(152.2)*	**2986** *(182.2)*
				-
 **mm** *(in.)* **N** *(kgf)*		-	-	**7.0 to 10** *(0.28 to 0.39)* ***441 to 539** *(45 to 55)*
		-	-	**11 to 15** *(0.43 to 0.59)* ***372 to 608** *(38 to 62)*
		-	-	**7.5 to 9.5** *(0.30 to 0.37)* ***441 to 539** *(45 to 55)*
 **20°C** *(68°F)* **ohm**		**0.95** **1.00*4**	**0.95** **1.00*4**	**0.72**
 **secs.**		**3.0** **0°C** *(32°F)*	**3.5** **3.0*4** **0°C** *(32°F)*	**4.5** **8°C** *(46°F)*
 **mm** *(in.)*		**0.20 to 0.30** *(0.008 to 0.012)*		
		**0.35 to 0.45** *(0.014 to 0.018)*	**0.40 to 0.50** (0.016 to 0.020)	
 **rpm**	 1 3 5 2 4 R	**700 to 800**		**720 to 820**
	 P R N D 2 L	**700 to 800**		-
		**4450 to 4750**		**4850 to 4950**

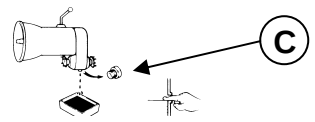
 **kPa** *(kgf/cm², psi)*		**2700** *(27.5, 391)*		**3138** *(32.0, 455)*
		**2200** *(22.5, 320)*		**1961** *(20.0, 284)*
		**500** *(5.0, 71)*		**490** *(5.0, 71)*
 **kPa** *(kgf/cm², psi)*		**29** *(0.3, 4.2)*		
	 3000 rpm 	**245** *(2.5, 36)*		**294 to 539** *(3.0 to 5.5, 43 to 78)*

		1KD-FTV	2KD-FTV	5L-E
 **Liter** *(US qts, Imp. qts)*		**6.6** *(7.0, 5.8)*	**6.6** *(7.0, 5.8)*	**6.7** *(7.1, 5.9)*
		**6.9** *(7.3, 6.1)*	**6.9** *(7.3, 6.1)*	**7.2** *(7.6, 6.3)*
		ACEA C2*4		**G-DLD1, API CF-4 or CF**
		G-DLD1, API CF-4, CF or ACEA B1		
N*m *(kgf*cm, ft.*lbf)*	A	**34** *(347, 25)*		**35** *(357, 26)*
 **Liter** *(US qts, Imp. qts)*	 1 3 5 2 4 R	**9.8** *(10.4, 8.6)*		**9.4** *(9.9, 8.3)*
	 P R N D 2 L	**11.1** *(11.7, 9.8)*		-

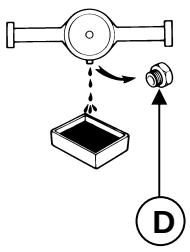
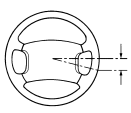
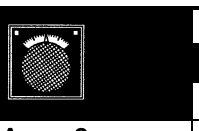
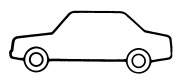
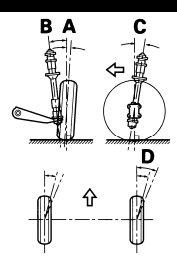
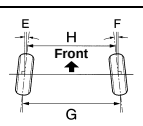
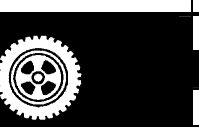
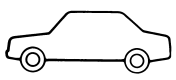
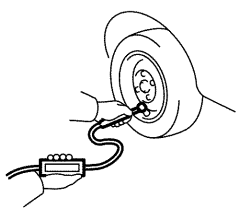
*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used *4: for DPF

			
	**A**	**179.9 to 189.9** *(7.08 to 7.47)*	**179.6 to 189.6** *(7.07 to 7.46)*
	B	**5 to 15** *(0.197 to 0.591)*	
	C	⬆ **25** *(0.984)*	
mm *(in.)*		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
			
	**A**	**M/T 168.3 to 178.3** *(6.626 to 7.019)* **A/T 169.3 to 179.3** *(6.666 to 7.059)*	**M/T 156.9 to 166.9** *(6.177 to 6.571)* **A/T 158.1 to 168.1** *(6.224 to 6.618)*
	B	**1 to 6** *(0.0394 to 0.236)*	
	C*1 **w/ VSC:**	⬆ **90** *(3.543)*	⬆ **83** *(3.268)*
	C*1 **w/o VSC:**	⬆ **89** *(3.504)*2* ⬆ **96** *(3.780)*3*5* ⬆ **87** *(3.425)*3*6*	⬆ **82** *(3.228)*2* ⬆ **89** *(3.504)*4*5* ⬆ **80** *(3.150)*4*6*
mm *(in.)*		**For TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT4** **Except TSAM Made:** **SAE J1703 or FMVSS No. 116 DOT3**	
 **200 N** *(20 kgf, 45 lbf)*		**6 to 8 Clicks*2** **7 to 9 Clicks*4**	
	**A**	⬆ **1.0** *(0.0394)*	
	B	⬆ **23** *(0.906)*4*5* ⬆ **26** *(1.024)*4*6*7*	⬆ **23** *(0.906)*4*5* ⬆ **26** *(1.024)*4*6*7*
 **mm** *(in.)*		⬆ **1.0** *(0.0394)*	
 **mm** *(in.)*		⬇ **256** *(10.079)*2*	⬇ **256** *(10.079)*2*
		⬇ **297** *(11.693)*4*	⬇ **297** *(11.693)*4*
		**2WD**	**4WD, Pre-Runner**
 **N*m** *(kgf*cm, ft.*lbf)*		**152** *(1550, 112)*12* **121** *(1234, 89)*13*	**105** *(1071, 77)*

		**1KD-FTV**	**2KD-FTV**	**5L-E**
	1 3 5 / 2 4 R	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3*	**2.6** (2.7, 2.3)*2 **2.2** *(2.3, 1.9)*3 *14*	**2.2** (2.3, 1.9)*2 **2.6** *(2.7, 2.3)*3*
		API GL-4 SAE 75W-90, 80W or 80W-90		
Liter *(US qts, Imp. qts)* **N*m** *(kgf*cm, ft.*lbf)*	**A**	**37** *(377, 27)*		
		**A340E/F:*8** **A750F:*9**	**2.0** *(2.1, 1.8)*	**-**
		A340E/F:*8 **A750F:*9**	**Toyota Genuine ATF Type T-IV**	**-**
Liter *(US qts, Imp. qts)* **N*m** *(kgf*cm, ft.*lbf)*	**B**	**20** *(204, 15)*		**-**

		**1.0** *(1.1, 0.9)*	
		Gear oil **API GL-4 or GL-5 SAE 75W-90** **Toyota Genuine Transfer Gear Oil LF or Equivalent SAE 75W**	
Liter *(US qts, Imp. qts)*			
N*m *(kgf*cm, ft.*lbf)*	**C**	**37** *(377, 27)*	

Item	Capacity	Viscosity
Front diff. w/ A.D.D.	1.60 to 1.70 *(1.69 to 1.79, 1.41 to 1.49)*	SAE 75W-90
Front diff. w/o A.D.D.	1.40 to 1.50 *(1.48 to 1.58, 1.23 to 1.32)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (2WD and w/ LSD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TMT (4WD and w/o LSD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (2WD and Made for DANA)	2.30 to 2.40 *(2.43 to 2.54, 2.02 to 2.11)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (4WD, Pre-Runner and Made for DANA)	2.40 to 2.50 *(2.54 to 2.64, 2.11 to 2.20)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 2WD)	3.15 to 3.25 *(3.33 to 3.43, 2.78 to 2.86)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ LSD for 4WD)	3.30 to 3.40 *(3.49 to 3.59, 2.91 to 2.99)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Rear diff. made for TSAM (w/ diff. lock)	2.85 to 2.95 *(3.01 to 3.12, 2.51 to 2.60)*	SAE 90 (⬆ -18°C (0°F)) SAE 80W or 80W-90 (⬇ -18°C (0°F))
Item	**Oil grade**	
Front diff.	Hypoid gear oil API GL-4 or GL-5 or equivalent	
Rear diff. (2WD and w/o LSD)	Hypoid gear oil API GL-5 or equivalent	
Rear diff. (w/ LSD)	Hypoid gear oil LSD API GL-5 or equivalent	

			
Liter *(US qts, Imp. qts)* **N*m** *(kgf*cm, ft.*lbf)*	**D**	**39** *(400, 29)*10*	**49** *(500, 36)*11*
		**KUN, LAN**	
 **mm** *(in.)*		⬇ **30** *(1.2)*	
			
	**A**	**Please refer to Repair Manual (Service Specifications / Suspension)**	-
	B		
	C		
	D		
	**E+F**		
	G-H		
			
 **kPa** *(kgf/cm^2, psi)*		**Please refer to Repair Manual (Service Specifications / Tire and Wheel)**	

*1: When brake pedal is depressed with the force of 490 N (50 kgf, 110 lbf) while the engine is running. *2: for 2WD *3: for 4WD *4: for 4WD and Pre-runner *5: for 15 inch Front Disc Brake
*6: for 16 inch Front Disc Brake *7: for TMT and TSAM Made 2WD *8: Please refer to Repair Manual (Preparation / Automatic Transmission A340E/F)
*9: Please refer to Repair Manual (A750F Automatic Transmission / Automatic Transmission Fluid)
*10: for Front Differential *11: for Rear Differential *12: for Steel wheels *13: for Aluminum wheels *14: for Manual Transmission G50 / G55

HILUX Diesel

LAN15, 25, 35
KUN10, 15, 16, 25, 26, 35, 36

2014/08 -

		KUN	LAN
	*1	Power Window Control System	
		Meter / Gauge System	
20°C (68°F)		1.25 to 1.29	

		1KD-FTV	2KD-FTV	5L-E
CC *(cu. in.)*		2982 *(182.0)*	2494 *(152.2)*	2986 *(182.2)*
		Used / New		-
mm *(in.)* N *(kgf)*		-	-	7.0 to 10 *(0.28 to 0.39)* *441 to 539 *(45 to 55)*
		-	-	11 to 15 *(0.43 to 0.59)* *372 to 608 *(38 to 62)*
		-	-	7.5 to 9.5 *(0.30 to 0.37)* *441 to 539 *(45 to 55)*
20°C *(68°F)* ohm		0.95 1.00*4	0.95 1.00*4	0.72
secs.		3.0 0°C *(32°F)*	3.5 3.0*4 0°C *(32°F)*	4.5 8°C *(46°F)*
mm *(in.)*		0.20 to 0.30 *(0.008 to 0.012)*		
		0.35 to 0.45 *(0.014 to 0.018)*		0.40 to 0.50 (0.016 to 0.020)
rpm	1 3 5 / 2 4 R	700 to 800		720 to 820
	P R N D 2 L	700 to 800		-
		4450 to 4750		4850 to 4950

kPa *(kgf/cm², psi)*		2700 *(27.5, 391)*	3138 *(32.0, 455)*
		2200 *(22.5, 320)*	1961 *(20.0, 284)*
		500 *(5.0, 71)*	490 *(5.0, 71)*
		29 *(0.3, 4.2)*	
	3000 rpm	245 *(2.5, 36)*	294 to 539 *(3.0 to 5.5, 43 to 78)*

		1KD-FTV	2KD-FTV	5L-E
Liter *(US qts, Imp. qts)*		6.6 *(7.0, 5.8)*	6.6 *(7.0, 5.8)*	6.7 *(7.1, 5.9)*
		6.9 *(7.3, 6.1)*	6.9 *(7.3, 6.1)*	7.2 *(7.6, 6.3)*
		ACEA C2*4		G-DLD1, API CF-4 or CF
		G-DLD1, API CF-4, CF or ACEA B1		
N*m *(kgf*cm, ft.*lbf)*	A	34 *(347, 25)*		35 *(357, 26)*
Liter *(US qts, Imp. qts)*	1 3 5 / 2 4 R	9.8 *(10.4, 8.6)*		9.4 *(9.9, 8.3)*
	P R N D 2 L	11.1 *(11.7, 9.8)*		-

*1: Initialization required. Refer to the repair manual for the initialization procedures. *2: New *3: Used *4: for DPF

TOYOTA MOTOR CORPORATION Technical Service Division