
SERVICE SPECIFICATIONS

MAINTENANCE

Engine

Drive belt tension					
Alternator	4A-FE		New belt.	160 ± 20 lbf	
			Used belt	130 ± 20 lbf	
	3S-GTE	w/ A/C	New belt	165 ± 10 lbf	
		w/o A/C	Used belt	84 ± 15 lbf	
	5S-FE	w/ A/C	New belt	150 ± 25 lbf	
		w/o A/C	Used belt	130 ± 25 lbf	
	PS pump	w/ A/C	New belt	165 ± 10 lbf	
			Used belt	110 ± 10 lbf	
		w/o A/C	New belt	125 ± 25 lbf	
			Used belt	95 ± 20 lbf	
A/C compressor (4A-FE)		New belt	125 ± 25 lbf		
		Used belt	80 ± 20 lbf		
		Used belt	160 ± 25 lbf		
		Used belt	100 ± 20 lbf		
Engine coolant capacity (w/ Heater)					
4A-FE		M /T	5.2 liters	5.5 U S qts	4.6 Imp. qts
		A/T	5.6 liters	5.9 U S qts	4.9 Imp. qts
3S-GTE			6.5 liters	6.9 US qts	5.7 Imp. qts
5S-FE		M /T	6.2 liters	6.6 US qts	5.5 Imp. qts
		A/T	6.1 liters	6.4 U S qts	5.4 Imp. qts
Engine oil capacity (Drain and refill)					
4A-FE		w/ Oil filter change	3.2 liters	3.3 US qts	2.8 Imp. qts
		w/o Oil filter change	3.0 liters	3.1 U S qts	3.4 Imp. qts
3S-GTE		w/ Oil filter change	3.9 liters	4.1 U S qts	3.4 Imp. qts
5S-FE	w/ Oil cooler	w/o Oil filter change	3.6 liters	3.8 US qts	3.2 Imp. qts
		w/ Oil filter change	4.2 liters	4.4 U S qts	3.7 Imp. qts
	w/o Oil cooler	w/o Oil filter change	3.8 liters	4.0 U S qts	3.3 Imp. qts
		w/ Oil filter change	4.1 liters	4.3 US qts	3.6 Imp. qts
		w/o Oil filter change	3.7 liters	3.9 U S qts	3.3 Imp. qts
Spark plug					
Type	4A-FE		ND	Q16R-U	
			NGK	BCPR5EY	
	3S-GTE		ND	PK20R8	
5S-FE			NGK	BKR6EP8	
			ND	PK20R11	
Gap	4A-FE and 3S-GTE		NGK	BKP6EP-11	0.031 in.
	5S-FE				0.043 in.
Firing order					
Valve clearance	4A-FE	Intake	0.15 - 0.25 mm		0.006-0.010 in.
		Exhaust	0.20 - 0.30 m m		0.008-0.012 in.
	3S-GTE	Intake	0.15 - 0.25 m m		0.006 - 0.010 in.
		Exhaust	0.28 - 0.38 m m		0.011 - 0.015 in.
	5S-FE	Intake	0.19 - 0.29 m m		0.007 - 0.011 in.
		Exhaust	0.28 - 0.38 mm		0.011 - 0.015 in.
Idle speed (4A-FE)					
			800 rpm		

Chassis

Brake pads and disc					
Pad thickness		Limit	1.0 mm	0.039 in.	
Disc thickness	Limit	Front	23.0 mm	0.906 in.	
		Rear	9.0 mm	0.354	
Disc runout	Limit	Front	0.07 mm	in.	
		Rear	0.15 mm	0.0028 in.	
Brake linings and drums					
Lining thickness		Limit	1.0 mm	0.039 in.	
Drum inside diameter	Limit	Drum brake	201.0 mm	7.913 in.	
		Disc brake	171.0 mm	6.732 in.	
Front axle and suspension					
Ball joint vertical play		Limit	0 mm	0 in.	
Steering wheel play			30 mm	1.18 in.	
Torque specifications					
Front seat mounting bolts			37 N-m	375 kgf-cm	27 ft-lbf
Engine mounting center member-to-body mounting bolts			73 N-m	740 kgf-cm	54 ft-lbf
Front suspension lower crossmember-to-body mounting bolts			152 N-m	1,550 kgf-cm	112 ft-lbf
Rear suspension lower crossmember-to-body mounting bolts			159 N-m	1,620 kgf-cm	117 ft-lbf

ENGINE MECHANICAL (4A–FE)

Specifications

Intake manifold vacuum	at idle speed		60 kPa	450 mmHg	17.7 in.Hg
Compression pressure	at 250 rpm	STD	1,320 kPa (13.5 kgf/cm ² , 191 psi) or more		
	Difference of pressure between each cylinder	Limit	981 kPa 10.0 kgf/cm ² , 142 psi 98 kPa (1.0 kgf/cm ² , 14 psi) or less		
Idler pulley tension spring	Free length		38.4 mm	1.512 in.	
	Installed load at 51.9 mm (2.043 in.)		35 – 39 N	3.6 – 4.0 kgf 7.9 – 8.8 lbf	
Cylinder head	Warpage Cylinder block side	Limit	0.05 mm	0.020 in.	
	Manifold side	Limit	0.10 mm	0.039 in.	
	Valve seat Refacing angle		30°, 45°, 60°		
	Contacting angle		45°		
	Contacting width		1.2 – 1.6 mm	0.047 – 0.063 in.	
Valve guide bushing	Inside diameter		6.010 – 6.030 mm		0.2366 – 0.2374 in.
	Outside diameter (for repair part)	STD	11.048 – 11.059 mm		0.4350 – 0.4354 in.
		O/S 0.05	11.098 – 11.109 mm		0.4369 – 0.4374 in.