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Model Year: 2006	Model: Hiace	Doc ID: RM000001A9K000X
Title: SERVICE SPECIFICATIONS: 5L-E ENGINE MECHANICAL: TORQUE SPECIFICATIONS (2006-2010 Hiace)		

TORQUE SPECIFICATIONS

PART TIGHTEN		N*M	KG*CM	FT.*LBF
Injection pump x Timing gear case		21	210	15
Injection pump x Injection pump stay		26	270	19
Compression gage attachment x Cylinder head		13	133	10
Generator x Engine	Bolt A	75	765	55
	Bolt B	18	185	13
Idler pulley x compressor mounting bracket		39	400	29
Vane pump x pump bracket	Bolt A	48	489	35
	Bolt B	64	635	47
Cylinder head cover sub-assembly x Cylinder head		12	120	9
Timing belt idler No.1 x Timing gear case		44	450	33
Crankshaft pulley x Crank shaft		235	2,400	173
Vane pump drive pulley x Crankshaft pulley		18	184	13
Camshaft bearing cap x Cylinder head		25	255	18
Camshaft Oil seal retainer x Cylinder block		18	185	13
Timing belt No.2 cover x Cylinder head		18	185	13
Camshaft timing pulley x camshaft		98	1,000	72
Cylinder head x cylinder block	1st	78	800	58
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Rear end plate x Cylinder block		27	275	19
Flywheel sub-assembly x Crankshaft		123	1,250	90
Engine hanger No.2 x Cylinder head		37	380	27
Engine oil pressure switch x Cylinder block		15	155	11
Exhaust manifold x Cylinder head		52	530	38
Exhaust manifold heat insulator No.1 x Exhaust manifold	Bolt A	18	185	13
	Bolt B	19	195	14
Engine mounting bracket front No.1 RH x Cylinder block		49	500	36
Pump bracket x Cylinder block	Bolt A	78	795	58

	Bolt B	57	581	42
Engine oil level sensor x Oil pan		7.0	71	62
Cylinder block water drain cock sub-assembly x Cylinder block		57	581	42
Water by-pass hose union x Timing gear case sub assembly		39	400	29
Water outlet housing x Cylinder head		19	195	14
Intake air connector bracket x Cylinder head		18	184	13
Compressor mounting bracket x Cylinder head		85	870	63
Engine mounting bracket front No.1 RH x Compressor mounting bracket		47	475	36
Fan belt adjusting bar x Cylinder head		45	460	33
Engine mounting insulator front x Front suspension cross member		55	561	41
Vane pump pulley x Vane pump assembly		43	440	32
Front suspension cross member x Body	Bolt A	36	367	27
	Bolt B	39	398	29
	Bolt C	150	1,530	111
Rear engine mounting x Body		98	1,000	72
Engine wire x J/B		9.8	100	87 in.*lbf
Engine rear oil seal retainer x Cylinder block		13	130	10
Timing gear case x Cylinder block		23	230	17
Oil strainer x Cylinder block		18	180	13
Oil strainer x Timing gear case		21	210	15
Oil pan x Cylinder block		18	180	13
Oil pan x Timing gear case		18	180	13
Oil pan x Engine rear oil seal retainer		18	180	13
Water pump x Timing gear case		23	230	17
Timing belt idler No.2 x Timing gear case		33	340	24
Timing belt idler No.1 x Timing gear case	12 mm head	19	195	14
Taper screw plug No.1 x Cylinder block		20	200	14
Water drain cock x Cylinder block		57	580	42
Cylinder block oil orifice x Cylinder block		11	110	8
Oil nozzle x Cylinder block		26	260	18
Crankshaft bearing cap x Cylinder block		105	1,050	77
Connecting rod cap x Connecting rod	1st	54	550	40
	2nd	Turn 90°	Turn 90°	Turn 90°

