ENGINE MECHANICAL PREPARATION

SST

020W5-01

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09032-00100	Oil Pan Seal Cutter	CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) CHAIN(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
09213-54015	Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
(91651–60855)	Bolt	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
09223-00010	Cover & Seal Replacer	OIL PUMP SEAL(1MZ-FE)
09223-15030	Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)

09223-22010	Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)
09248-55040	Valve Clearance Adjust Tool Set	CAMSHAFT(RH BANK)(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
(09248-05410)	Valve Lifter Press	CAMSHAFT(RH BANK)(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
(09248-05420)	Valve Lifter Stopper	CAMSHAFT(RH BANK)(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
09249-63010	Torque Wrench Adaptor	FAN AND GENERATOR V BELT(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE) FAN AND GENERATOR V BELT(2AZ-FE)
09309-37010	Transmission Bearing Replacer	CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) CHAIN(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
09330-00021	Companion Flange Holding Tool	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)

00520 01010	Drive Shaft Remover Attachment	DADTIAL ENGINE ASSV(1MZ EE)
09520-01010	Drive Shall Remover Altachment	PARTIAL ENGINE ASSY(1MZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
09520-24010	Differential Side Gear Shaft Puller	PARTIAL ENGINE ASSY(1MZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
(09520-32040)	Shocker Set	PARTIAL ENGINE ASSY(1MZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
09628-62011	Boll Joint Puller	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
09816-30010	Oil Pressure Switch Socket	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
09843-18040	Diagnosis Check Wire No.2	ENGINE ASSEMBLY(1AZ-FE) ENGINE ASSEMBLY(1MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) ENGINE ASSEMBLY(2AZ-FE)
09930-00010	Drive Shaft Nut Chisel	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
09950-50013	Puller C Set	CHAIN(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)

	(00074 07040) 11 170	0114111(4.47, 55)
	(09951–05010) Hanger 150	CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
	(09952-05010) Slide Arm	CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
	(09953-05010) Center Bolt 100	CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
	(09953–05020) Center Bolt 150	CHAIN(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) OIL PUMP SEAL(1MZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)
	(09954–05010) Claw No.1	OIL PUMP SEAL(1MZ-FE)
OMAD	(09954–05021) Claw No.2	CHAIN(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)

	(09954-05030)	Claw No.3	CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
	09950-70010	Handle Set	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)
	(09951-07100)	Handle 100	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1MZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)
	09960-10010	Variable Pin Wrench Set	CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)
3	(09962-01000)	Variable Pin Wrench Arm Assy	CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)
	(09963-00500)	Pin 5	CAMSHAFT(RH BANK)(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
	(09963-01000)	Pin 10	CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE) CHAIN(2AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE) ENGINE REAR OIL SEAL(2AZ-FE)
	09992-00500	Compression Gauge Attachment	ENGINE ASSEMBLY(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE)

Recomended Tools

09011-12301 Socket Wrench 30 mm	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
09040-00011 Hexagon Wrench Set	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
(09043–20050) Socket Hexagon Wrench 5	PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
(09043-20060) Socket Hexagon Wrench 6	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
(09043–20080) Socket Hexagon Wrench 8	PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) VALVE CLEARANCE(1MZ-FE)
(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
(09043–20050) Socket Hexagon Wrench 5	PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) VALVE CLEARANCE(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
(09043-20080) Socket Hexagon Wrench 8	PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) VALVE CLEARANCE(1MZ-FE)
(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)
09043-50100 Bi-hexagon Wrench 10 mm	CYLINDER HEAD GASKET(1AZ-FE) CYLINDER HEAD GASKET(2AZ-FE)

09216-00021 Belt Tension Gauge	ENGINE ASSEMBLY(1MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE) CAMSHAFT(RH BANK)(1MZ-FE) OIL PUMP SEAL(1MZ-FE) CYLINDER HEAD GASKET(1MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE) DRIVE BELT(1MZ-FE) TIMING BELT(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
09200–00010 Engine Adjust Kit .	ENGINE ASSEMBLY(1AZ-FE) ENGINE ASSEMBLY(1MZ-FE) ENGINE ASSEMBLY(2AZ-FE)
(09857-00031) Spark Plug Gap Gauge	ENGINE ASSEMBLY(1AZ-FE) ENGINE ASSEMBLY(1MZ-FE) ENGINE ASSEMBLY(2AZ-FE)
09904-00010 Expander Set	CAMSHAFT(RH BANK)(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)
(09904–00040) No. 3 Claw	CAMSHAFT(RH BANK)(1MZ-FE) CAMSHAFT(LH BANK)(1MZ-FE)

Equipment

Equipment	
12 mm Socket Wrench for 12 Pointed Head	
CO/HC meter	
Compression gauge	
Feeler gauge	
Micrometer	
Precision straight edge	
Radiator cap tester	
Tachometer	
Torque wrench	
Hexagon Wrench Set	
Vernier calipers	
Dial indicator with magneticbase	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
OBD II scan tool	
Engine Sling Device	
Chain Block	
Spark plug cleaner	
Angle gauge	
Universal engine lifter	

SSM

088	26-00080	Seal Packing Black or equivalent	VALVE CLEARANCE(1AZ-FE)
		(FIPG)	CHAIN(1AZ-FE)
			CAMSHAFT(1AZ-FE)
			CYLINDER HEAD GASKET(1AZ-FE)
			CAMSHAFT(RH BANK)(1MZ-FE)
			CYLINDER HEAD GASKET(1MZ-FE)
			CYLINDER HEAD GASKET
			NO.2(1MZ-FE)
			VALVE CLEARANCE(1MZ-FE)
			CAMSHAFT(LH BANK)(1MZ-FE)
			CHAIN(2AZ-FE)
			CAMSHAFT(2AZ-FE)
			CYLINDER HEAD GASKET(2AZ-FE)
			VALVE CLEARANCE(2AZ-FE)
088	33-00070	"Adhesive 1324,"	PARTIAL ENGINE ASSY(1AZ-FE)
		THREE BOND 1324 or equivalent	ENGINE REAR OIL SEAL(1AZ-FE)
			PARTIAL ENGINE ASSY(1MZ-FE)
			ENGINE REAR OIL SEAL(1MZ-FE)
			PARTIAL ENGINE ASSY(2AZ-FE)
			ENGINE REAR OIL SEAL(2AZ-FE)