
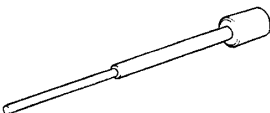
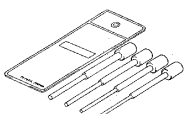
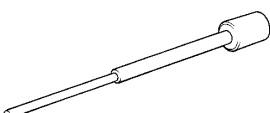
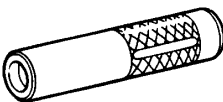
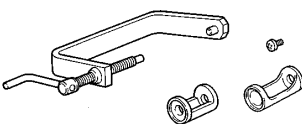
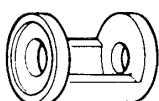
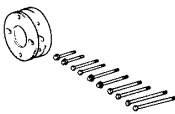


ENGINE MECHANICAL

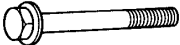

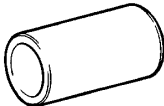

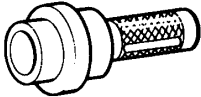
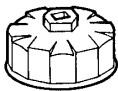

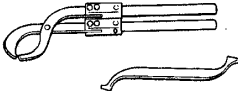
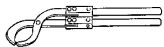

PREPARATION


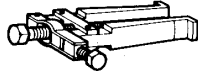


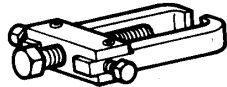



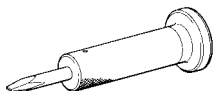

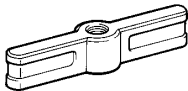
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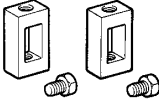
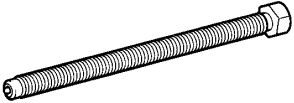
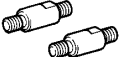
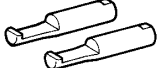

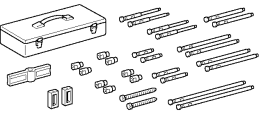
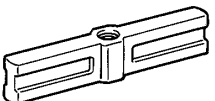
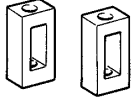
	09032-00100	Oil Pan Seal Cutter	PARTIAL ASSY(1MZ-FE/3MZ-FE) PARTIAL ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003)
	09201-01055	Valve Guide Bushing Remover & Replacer 5.5	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE)
	09201-10000	Valve Guide Bushing Remover & Replacer Set	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)
	(09201-01050)	Valve Guide Bushing Remover & Replacer 5	CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)
	09201-41020	Valve Stem Oil Seal Replacer	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)
	09202-70020	Valve Spring Compressor	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)
	(09202-00010)	Attachment	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)
	09213-54015	Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)



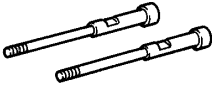
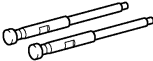

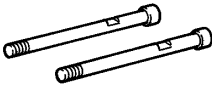
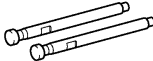

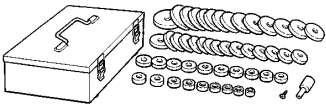

PREPARATION - ENGINE MECHANICAL

	(91651-60855) Bolt	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)
	09222-30010 Connecting Rod Bushing Remover & Replacer	CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE)
	09223-00010 Cover & Seal Replacer	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) OIL PUMP SEAL(1MZ-FE/3MZ-FE)
	09223-15030 Oil Seal & Bearing Replacer	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)
	09223-22010 Crankshaft Front Oil Seal Replacer	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	09228-06501 Oil Filter Wrench	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	09228-07501 Oil Filter Wrench	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	09248-55040 Valve Clearance Adjust Tool Set	VALVE CLEARANCE(1MZ-FE/3MZ-FE)
	(09248-05410) Valve Lifter Press	VALVE CLEARANCE(1MZ-FE/3MZ-FE)
	(09248-05420) Valve Lifter Stopper	VALVE CLEARANCE(1MZ-FE/3MZ-FE)


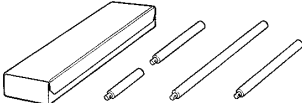

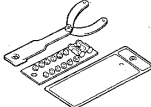
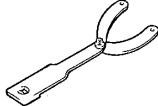
	09249-63010 Torque Wrench Adaptor	CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE) DRIVE BELT(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003)
	09308-10010 Oil Seal Puller	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	09309-37010 Transmission Bearing Replacer	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003)
	09330-00021 Companion Flange Holding Tool	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)
	09628-62011 Bolt Joint Puller	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	09816-30010 Oil Pressure Switch Socket	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	09843-18030 Tacho-pulse Pickup Wire No.2	ENGINE(1MZ-FE/3MZ-FE) ENGINE(2AZ-FE)(From July, 2003)
	09843-18040 Diagnosis Check Wire No.2	ENGINE(1MZ-FE/3MZ-FE) ENGINE(2AZ-FE)(From July, 2003)
	09930-00010 Drive Shaft Nut Chisel	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	09950-40011 Puller B Set	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09951-04010) Hanger 150	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)



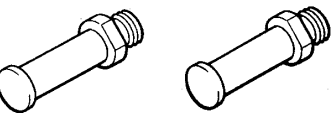
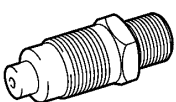
PREPARATION – ENGINE MECHANICAL

	(09952-04010) Slide Arm	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09953-04030) Center Bolt 200	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09954-04010) Arm 25	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09955-04041) Claw No.4	CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09957-04010) Attachment	CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	09950-50013 Puller C Set	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) OIL PUMP SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09951-05010) Hanger 150	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) OIL PUMP SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09952-05010) Slide Arm	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) OIL PUMP SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)

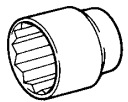
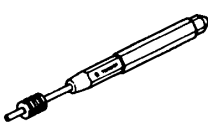
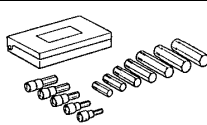
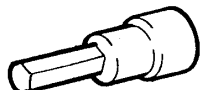
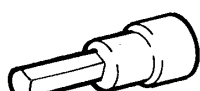
	(09953-05010) Center Bolt 100	TIMING BELT(1MZ-FE/3MZ-FE)
	(09953-05020) Center Bolt 150	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) OIL PUMP SEAL(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09954-05010) Claw No.1	OIL PUMP SEAL(1MZ-FE/3MZ-FE)
	(09954-05011) Claw No.1	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	(09954-05021) Claw No.2	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	(09954-05030) Claw No.3	TIMING BELT(1MZ-FE/3MZ-FE)
	(09954-05031) Claw No.3	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	(09957-04010) Attachment	CHAIN(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003)
	09950-60010 Replacer Set	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) CYLINDER BLOCK ASSY(2AZ-FE)(From July, 2003)
	(09951-00200) Replacer 20	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) CYLINDER BLOCK ASSY(2AZ-FE)(From July, 2003)

PREPARATION - ENGINE MECHANICAL

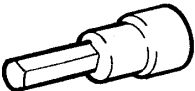
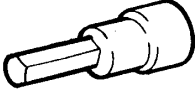
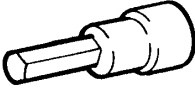
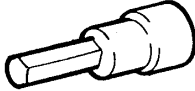
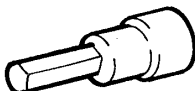
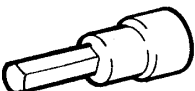
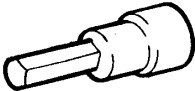
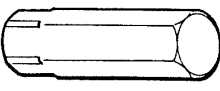

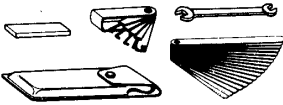
	(09951-00430) Replacer 43	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	09950-70010 Handle Set	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003) CYLINDER BLOCK ASSY(2AZ-FE)(From July, 2003)
	(09951-07100) Handle 100	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003) CYLINDER BLOCK ASSY(2AZ-FE)(From July, 2003)
	09960-10010 Variable Pin Wrench Set	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)
	(09962-01000) Variable Pin Wrench Arm Assy	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)

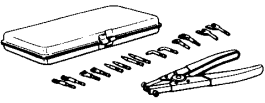

	(09963-00500) Pin 5	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE)
	(09963-00700) Pin 7	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	(09963-01000) Pin 10	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) TIMING BELT(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003)
	09992-00500 Compression Gauge Attachment	ENGINE(1MZ-FE/3MZ-FE)

Recommended Tools

	09011-12301 Socket Wrench 30 mm	PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	09031-00040 Pin Punch .	CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	09040-00011 Hexagon Wrench Set	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	(09043-20050) Socket Hexagon Wrench 5	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	(09043-20060) Socket Hexagon Wrench 6	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)

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	(09043-20080) Socket Hexagon Wrench 8	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE/3MZ-FE)
	(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	(09043-20120) Socket Hexagon Wrench 12	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	(09043-20050) Socket Hexagon Wrench 5	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE)
	(09043-20060) Socket Hexagon Wrench 6	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	(09043-20080) Socket Hexagon Wrench 8	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE/3MZ-FE)
	(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
	(09043-30140) Straight Hexagon Wrench 14	CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE)
	09090-04020 Engine Sling Device	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CHAIN(2AZ-FE)(From July, 2003)
	09200-00010 Engine Adjust Kit	VALVE CLEARANCE(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) VALVE CLEARANCE(2AZ-FE)(From July, 2003) CYLINDER HEAD ASSY(2AZ-FE)(From July, 2003)

	09904-00010 Expander Set	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE)
	(09904-00040) No. 3 Claw	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE)

Equipment

Abrasive compound	Valve
Brush	Piston
Caliper gauge	
Carbide cutter	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator	
Dye penetrant	
Engine tune-up tester	
Groove cleaning tool	Piston ring groove
Heater	
Hexagon wrench (1.5 mm)	Timing belt tensioner
Micrometer	
Pin hole grinder	Connecting rod bushing
Piston ring compressor	
Piston ring expander	
Plastigage	
Precision straight edge	
Press	
Reamer	Cylinder
Ridge reamer	Cylinder
Soft brush	Cylinder head Cylinder block
Solvent	
Spring tester	Valve spring
Steel square	Valve spring
Thermometer	
Torque wrench	
Valve seat cutter	
Valve guide bushing brush	
V-block	
Vernier caliper	
Wire brush	Valve Cylinder head

SSM

08826-00080	Seal Packing Black or equivalent (FIPG)	VALVE CLEARANCE(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CAMSHAFT (RH BANK)(1MZ-FE/3MZ-FE) CAMSHAFT (LH BANK)(1MZ-FE/3MZ-FE) CYLINDER HEAD GASKET NO.2(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) VALVE CLEARANCE(2AZ-FE)(From July, 2003) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) CHAIN(2AZ-FE)(From July, 2003) CAMSHAFT(2AZ-FE)(From July, 2003) CYLINDER HEAD GASKET(2AZ-FE)(From July, 2003)
08826-00100	"Seal Packing 1282B," THREE BOND 1282B or equivalent (FIPG)	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003)
08833-00070	"Adhesive 1324," THREE BOND 1324 or equivalent	PARTIAL ENGINE ASSY(1MZ-FE/3MZ-FE) ENGINE REAR OIL SEAL(1MZ-FE/3MZ-FE) CYLINDER HEAD ASSY(1MZ-FE/3MZ-FE) CYLINDER BLOCK ASSY(1MZ-FE/3MZ-FE) PARTIAL ENGINE ASSY(2AZ-FE)(From July, 2003) ENGINE REAR OIL SEAL(2AZ-FE)(From July, 2003) CYLINDER BLOCK ASSY(2AZ-FE)(From July, 2003)