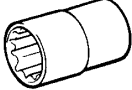
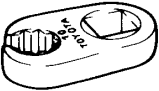

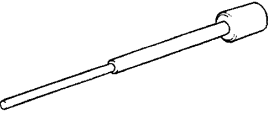
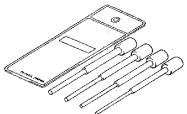
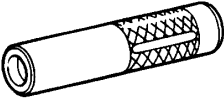
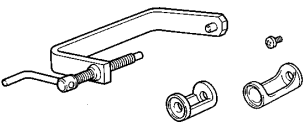
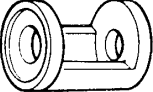
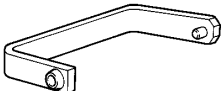

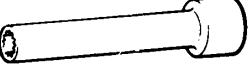



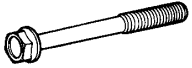


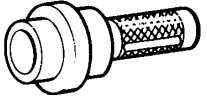

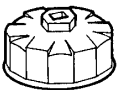
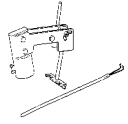
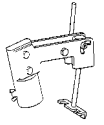

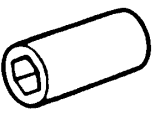
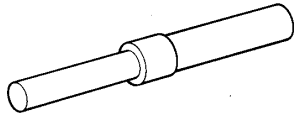
ENGINE MECHANICAL

PREPARATION



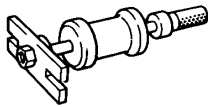
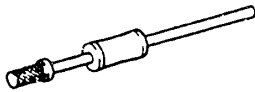
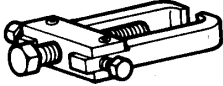
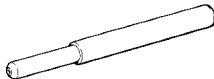


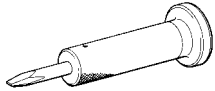
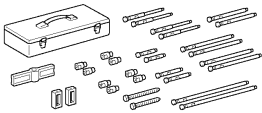
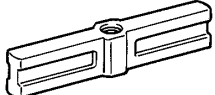
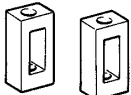
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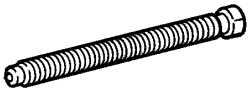


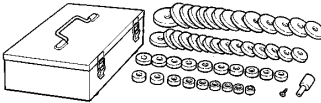



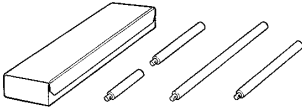

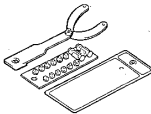
SST

	09011-38121	12 mm Socket Wrench for 12 Pointed Head	CYLINDER BLOCK(1ZZ-FE) CYLINDER BLOCK(2ZZ-GE)
	09023-38200	Union Nut Wrench 12mm	PARTIAL ENGINE ASSY(1ZZ-FE)
	09032-00100	Oil Pan Seal Cutter	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09201-01055	Valve Guide Bushing Remover & Replacer 5.5	CYLINDER HEAD ASSY(1ZZ-FE) CYLINDER HEAD ASSY(2ZZ-GE)
	09201-10000	Valve Guide Bushing Remover & Replacer Set	CYLINDER HEAD ASSY(1ZZ-FE) CYLINDER HEAD ASSY(2ZZ-GE)
	09201-41020	Valve Stem Oil Seal Replacer	CYLINDER HEAD ASSY(1ZZ-FE) CYLINDER HEAD ASSY(2ZZ-GE)
	09202-70020	Valve Spring Compressor	CYLINDER HEAD ASSY(1ZZ-FE) CYLINDER HEAD ASSY(2ZZ-GE)
	(09202-00010)	Attachment	CYLINDER HEAD ASSY(1ZZ-FE)
	(09202-01010)	Arm	CYLINDER HEAD ASSY(1ZZ-FE)
	(09202-01020)	Set Bolt	CYLINDER HEAD ASSY(1ZZ-FE)
	09205-16010	Cylinder Head Bolt Wrench	CYLINDER BLOCK(1ZZ-FE) CYLINDER BLOCK(2ZZ-GE)
	09213-70011	Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)

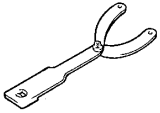

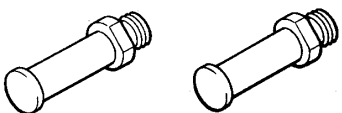
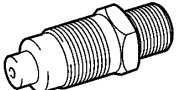
	(09213-70020) Bolt	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09223-15020 Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE)
	09223-15030 Oil Seal & Bearing Replacer	PARTIAL ENGINE ASSY(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE)
	09223-22010 Crankshaft Front Oil Seal Replacer	CHAIN SUB-ASSY(1ZZ-FE) TIMING GEAR COVER OIL SEAL(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09224-00010 O2 Sensor Wrench	PARTIAL ENGINE ASSY(1ZZ-FE)
	09228-06501 Oil Filter Wrench	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09248-77010 Valve Clearance Adjusting Compressor Set	PARTIAL ENGINE ASSY(2ZZ-GE) VALVE CLEARANCE(2ZZ-GE)
	(09248-07010) Valve Clearance Adjusting Compressor	PARTIAL ENGINE ASSY(2ZZ-GE) VALVE CLEARANCE(2ZZ-GE)
	09268-21010 Fuel Hose Puller	CYLINDER HEAD GASKET(1ZZ-FE)
	09268-46021 Nozzle Holder Retaining Nut Wrench	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09301-00210 Clutch Guide Tool	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE)

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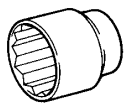
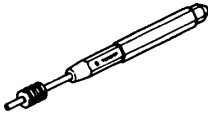
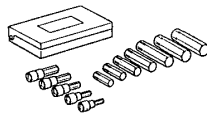
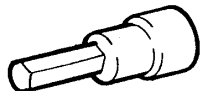
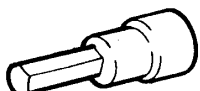
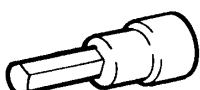
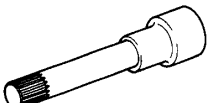

	09330-00021	Companion Flange Holding Tool	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09520-01010	Drive Shaft Remover Attachment	PARTIAL ENGINE ASSY(2ZZ-GE)
	09520-24010	Differential Side Gear Shaft Puller	PARTIAL ENGINE ASSY(2ZZ-GE)
	(09520-32040)	Shocker Set	PARTIAL ENGINE ASSY(2ZZ-GE)
	09628-62011	Boll Joint Puller	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09670-00010	Front Crossmember Guide Tool	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09817-33190	Sensor Socket Wrench	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09843-18040	Diagnosis Check Wire No.2	ENGINE ASSEMBLY(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) ENGINE ASSEMBLY(2ZZ-GE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09930-00010	Drive Shaft Nut Chisel	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09950-50013	Puller C Set	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	(09951-05010)	Hanger 150	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	(09952-05010)	Slide Arm	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)

	(09953-05020) Center Bolt 150	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	(09954-05021) Claw No.2	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	(09957-04010) Attachment	CHAIN SUB-ASSY(2ZZ-GE) TIMING GEAR COVER OIL SEAL(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09950-60010 Replacer Set	CYLINDER HEAD ASSY(2ZZ-GE) CYLINDER BLOCK(2ZZ-GE)
	(09951-00250) Replacer 25	CYLINDER BLOCK(2ZZ-GE)
	(09951-00350) Replacer 35	CYLINDER HEAD ASSY(2ZZ-GE)
	(09951-00450) Replacer 45	CYLINDER BLOCK(2ZZ-GE)
	09950-70010 Handle Set	ENGINE REAR OIL SEAL(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) CYLINDER HEAD ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD ASSY(2ZZ-GE) CYLINDER BLOCK(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE)
	(09951-07100) Handle 100	ENGINE REAR OIL SEAL(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) CYLINDER HEAD ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD ASSY(2ZZ-GE) CYLINDER BLOCK(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE)
	09960-10010 Variable Pin Wrench Set	CHAIN SUB-ASSY(1ZZ-FE) TIMING GEAR COVER OIL SEAL(1ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)

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	(09962-01000) Variable Pin Wrench Arm Assy	CHAIN SUB-ASSY(1ZZ-FE) TIMING GEAR COVER OIL SEAL(1ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE)
	(09963-00600) Pin 6	PARTIAL ENGINE ASSY(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE)
	(09963-01000) Pin 10	CHAIN SUB-ASSY(1ZZ-FE) TIMING GEAR COVER OIL SEAL(1ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE)
	09992-00500 Compression Gauge Attachment	ENGINE ASSEMBLY(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) ENGINE ASSEMBLY(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)

Recommended Tools

	09011-12301 Socket Wrench 30 mm	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	09031-00040 Pin Punch .	CYLINDER HEAD ASSY(1ZZ-FE) CYLINDER HEAD ASSY(2ZZ-GE)
	09040-00011 Hexagon Wrench Set	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD ASSY(2ZZ-GE)
	(09043-20050) Socket Hexagon Wrench 5	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)
	(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1ZZ-FE) CYLINDER HEAD ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD ASSY(2ZZ-GE)
	(09043-20120) Socket Hexagon Wrench 12	PARTIAL ENGINE ASSY(1ZZ-FE)
	09043-50100 Bi-hexagon Wrench 10 mm	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
	09090-04020 Engine Sling Device	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE)

SSM

08826-00080	Seal Packing Black or equivalent (FIPG)	CHAIN SUB-ASSY(1ZZ-FE) CAMSHAFT(1ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE) VALVE CLEARANCE(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) CYLINDER BLOCK(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER BLOCK(2ZZ-GE) CHAIN SUB-ASSY(2ZZ-GE) CAMSHAFT(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE) VALVE CLEARANCE(2ZZ-GE)
08826-00100	"Seal Packing 1282B," THREE BOND 1282B or equivalent (FIPG)	PARTIAL ENGINE ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD GASKET(2ZZ-GE)
08833-00070	"Adhesive 1324," THREE BOND 1324 or equivalent	ENGINE REAR OIL SEAL(1ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE) CYLINDER HEAD ASSY(1ZZ-FE) PARTIAL ENGINE ASSY(2ZZ-GE) CYLINDER HEAD ASSY(2ZZ-GE) CYLINDER BLOCK(2ZZ-GE) ENGINE REAR OIL SEAL(2ZZ-GE)
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	CYLINDER BLOCK(1ZZ-FE)

Equipment

Alignment tester	
Caliper gauge	
Chain Block	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator	
Feeler gauge	
Heater	
Hexagon wrench (5mm)	
Micrometer	
OBD II scan tool	
Piston ring compressor	
Piston ring expander	
Plastic Hammer	
Plastigage	
Precision straight edge	
Radiator cap tester	
Reamer	
Sandpaper (#400)	
Slide calipers	
Steel square	
Straight edge	
Spring tester	

PREPARATION – ENGINE MECHANICAL

Spring tension gauge	
Tire pressure gauge	
Toe-in gauge	
Torque wrench	
Universal engine lifter	
Valve seat cutter	
Vernier calipers	
V-block	
Wooden block	