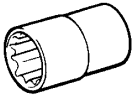


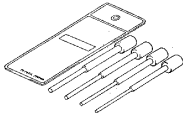
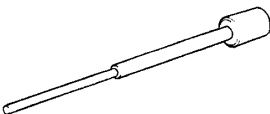
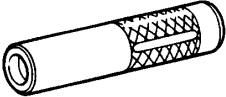
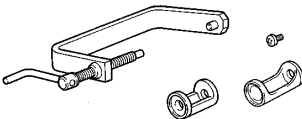
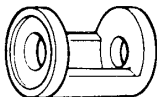
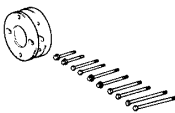
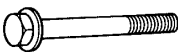


ENGINE MECHANICAL


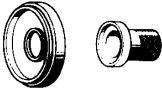


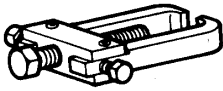


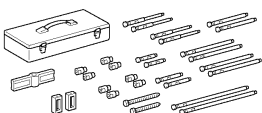
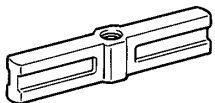
PREPARATION

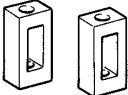


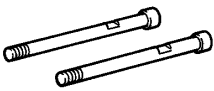
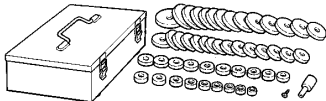


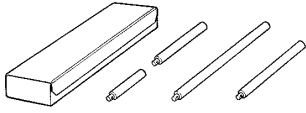


SST

02287-01

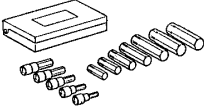
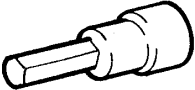
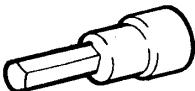
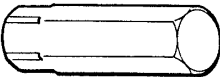
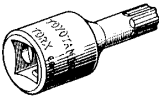
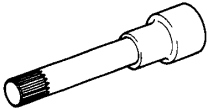
	09011-38121 12 mm Socket Wrench for 12 Pointed Head	CYLINDER BLOCK ASSY(1GR-FE)
	09023-12700 Union Nut Wrench 17mm	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) ENGINE REAR OIL SEAL(1GR-FE)
	09032-00100 Oil Pan Seal Cutter	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE)
	09201-10000 Valve Guide Bushing Remover & Replacer Set	CYLINDER HEAD ASSY(1GR-FE)
	09201-01055 Valve Guide Bushing Remover & Replacer 5.5	CYLINDER HEAD ASSY(1GR-FE)
	09201-41020 Valve Stem Oil Seal Replacer	CYLINDER HEAD ASSY(1GR-FE)
	09202-70020 Valve Spring Compressor	CYLINDER HEAD ASSY(1GR-FE)
	(09202-00010) Attachment	CYLINDER HEAD ASSY(1GR-FE)
	09213-54015 Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE) ENGINE REAR OIL SEAL(1GR-FE)
	(91651-60855) Bolt	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE) ENGINE REAR OIL SEAL(1GR-FE)

PREPARATION - ENGINE MECHANICAL

	09222-30010	Connecting Rod Bushing Remover & Replacer	CYLINDER BLOCK ASSY(1GR-FE)
	09223-78010	Crankshaft Oil Seal Replacer	PARTIAL ENGINE ASSY(1GR-FE) ENGINE REAR OIL SEAL(1GR-FE)
	09226-10010	Crankshaft Front & Rear Bearing Replacer	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)
	09330-00021	Companion Flange Holding Tool	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE) ENGINE REAR OIL SEAL(1GR-FE)
	09628-6201 1	Bolt Joint Puller	CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE)
	09843-18030	Tacho-pulse Pickup Wire No.2	ENGINE(1GR-FE) PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE)
	09843-18040	Diagnosis Check Wire No.2	ENGINE(1GR-FE) PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) VALVE CLEARANCE(1GR-FE) CAMSHAFT (RH BANK)(1GR-FE) CAMSHAFT (LH BANK)(1GR-FE)
	09950-50013	Puller C Set	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)
	(09951-05010)	Hanger 150	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)

	(09952-05010) Slide Arm	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)
	(09953-05020) Center Bolt 150	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)
	(09954-05021) Claw No.2	CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE)
	(09954-05030) Claw No.3	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1GR-FE)
	09950-60010 Replacer Set	CYLINDER HEAD ASSY(1GR-FE) CYLINDER BLOCK ASSY(1GR-FE)
	(09951-00250) Replacer 25	CYLINDER HEAD ASSY(1GR-FE)
	(09951-00350) Replacer 35	CYLINDER BLOCK ASSY(1GR-FE)
	09950-70010 Handle Set	CYLINDER HEAD ASSY(1GR-FE) CYLINDER BLOCK ASSY(1GR-FE)
	(09951-07100) Handle 100	CYLINDER HEAD ASSY(1GR-FE)
	(09951-07150) Handle 150	CYLINDER HEAD ASSY(1GR-FE) CYLINDER BLOCK ASSY(1GR-FE)

Recommended Tools

	09040-0001 1 Hexagon Wrench Set	CYLINDER HEAD ASSY(1GR-FE) PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) VALVE CLEARANCE(1GR-FE) CAMSHAFT (RH BANK)(1GR-FE) CAMSHAFT (LH BANK)(1GR-FE)
	(09043-20080) Socket Hexagon Wrench 8	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE) VALVE CLEARANCE(1GR-FE) CAMSHAFT (RH BANK)(1GR-FE) CAMSHAFT (LH BANK)(1GR-FE)
	(09043-20100) Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE)
	(09043-30140) Straight Hexagon Wrench 14	CYLINDER HEAD ASSY(1GR-FE)
	09042-00010 Torx Socket T30	CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE) CHAIN SUB-ASSY(1GR-FE)
	09043-50100 Bi-hexagon Wrench 10 mm	PARTIAL ENGINE ASSY(1GR-FE) CYLINDER HEAD GASKET(1GR-FE) CYLINDER HEAD GASKET NO.2(1GR-FE)

SSM

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

Equipment

Alignment tester	
Angle gauge	
Bar	
Caliper gauge	
Chain Block	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator with magnetic base	
Engine Sling Device	
Feeler gauge	
Heater	
Micrometer	
OBD II scan tool	
Piston ring compressor	
Piston ring expander	
Plastic Hammer	
Plastigage	
Precision straight edge	
Radiator cap tester	
Reamer	
Slide calipers	
Spring tester	
Steel square	
Tachometer	
Timing light	
Tire pressure gauge	
Toe-in gauge	
Torque wrench	
Valve seat cutter	
V-block	
Vernier calipers	
Wooden block	