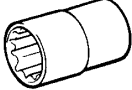
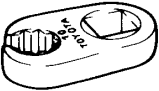

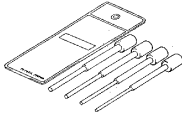
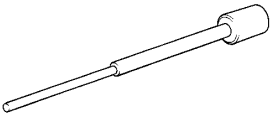
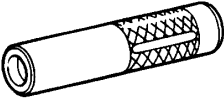
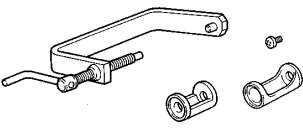
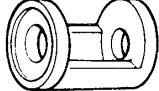
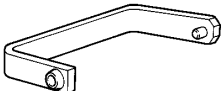

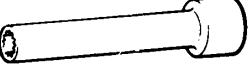
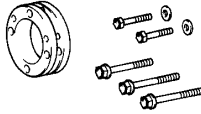


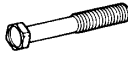
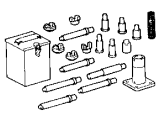
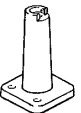





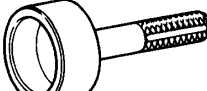

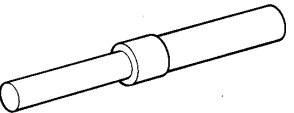


ENGINE MECHANICAL

PREPARATION


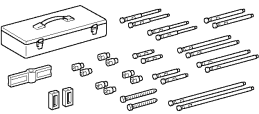
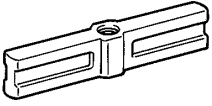
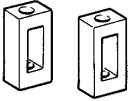
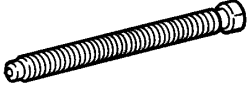

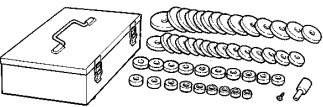


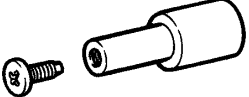
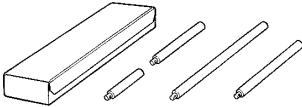

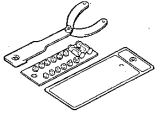
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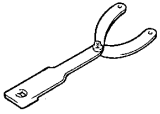

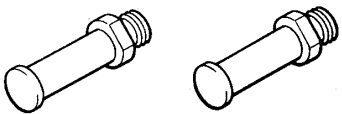
SST

	09011-38121	12 mm Socket Wrench for 12 Pointed Head	CYLINDER BLOCK ASSY(1NZ-FXE)
	09023-38400	Union Nut Wrench 14mm	PARTIAL ENGINE ASSY(1NZ-FXE) CAMSHAFT(1NZ-FXE) VALVE CLEARANCE(1NZ-FXE)
	09032-00100	Oil Pan Seal Cutter	PARTIAL ENGINE ASSY(1NZ-FXE)
	09201-10000	Valve Guide Bushing Remover & Replacer Set	CYLINDER HEAD ASSY(1NZ-FXE)
	(09201-01050)	Valve Guide Bushing Remover & Replacer 5	CYLINDER HEAD ASSY(1NZ-FXE)
	09201-41020	Valve Stem Oil Seal Replacer	CYLINDER HEAD ASSY(1NZ-FXE)
	09202-70020	Valve Spring Compressor	CYLINDER HEAD ASSY(1NZ-FXE)
	(09202-00010)	Attachment	CYLINDER HEAD ASSY(1NZ-FXE)
	(09202-01010)	Arm	CYLINDER HEAD ASSY(1NZ-FXE)
	(09202-01020)	Set Bolt	CYLINDER HEAD ASSY(1NZ-FXE)
	09205-16010	Cylinder Head Bolt Wrench	CYLINDER BLOCK ASSY(1NZ-FXE)
	09213-58013	Crankshaft Pulley Holding Tool	OIL PUMP SEAL(1NZ-FXE) ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)

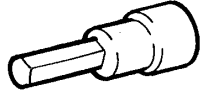
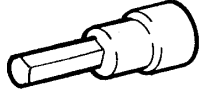
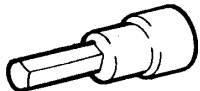
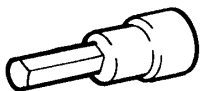
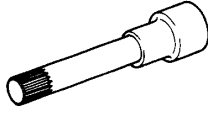

	(91111-50845) Bolt	OIL PUMP SEAL(1NZ-FXE) ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09221-25026 Piston Pin Remover & Replacer	CYLINDER BLOCK ASSY(1NZ-FXE)
	(09221-00021) Body	CYLINDER BLOCK ASSY(1NZ-FXE)
	(09221-00030) Spring	CYLINDER BLOCK ASSY(1NZ-FXE)
	(09221-00061) Bushing "C"	CYLINDER BLOCK ASSY(1NZ-FXE)
	(09221-00090) Guide "C"	CYLINDER BLOCK ASSY(1NZ-FXE)
	(09221-00100) Guide "D"	CYLINDER BLOCK ASSY(1NZ-FXE)
	09223-22010 Crankshaft Front Oil Seal Replacer	OIL PUMP SEAL(1NZ-FXE)
	09223-56010 Crankshaft Rear Oil Seal Replacer	ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09228-06501 Oil Filter Wrench	PARTIAL ENGINE ASSY(1NZ-FXE)
	09301-00210 Clutch Guide Tool	ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09330-00021 Companion Flange Holding Tool	OIL PUMP SEAL(1NZ-FXE) ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09843-18030 Tacho-pulse Pickup Wire No.2	ENGINE(1NZ-FXE)

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	09843-18040	Diagnosis Check Wire No.2	ENGINE(1NZ-FXE)
	09950-50013	Puller C Set	OIL PUMP SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	(09951-05010)	Hanger 150	OIL PUMP SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	(09952-05010)	Slide Arm	OIL PUMP SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	(09953-05020)	Center Bolt 150	OIL PUMP SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	(09954-05021)	Claw No.2	OIL PUMP SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09950-60010	Replacer Set	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	(09951-00250)	Replacer 25	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	(09951-00380)	Replacer 38	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	(09952-06010)	Adapter	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	09950-70010	Handle Set	CYLINDER HEAD ASSY(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	(09951-07100)	Handle 100	CYLINDER HEAD ASSY(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	09960-10010	Variable Pin Wrench Set	PARTIAL ENGINE ASSY(1NZ-FXE)

	(09962-01000) Variable Pin Wrench Arm Assy	PARTIAL ENGINE ASSY(1NZ-FXE)
	(09963-00600) Pin 6	PARTIAL ENGINE ASSY(1NZ-FXE)
	(09963-01000) Pin 10	PARTIAL ENGINE ASSY(1NZ-FXE)

Recommended Tools

	(09043-20060) Socket Hexagon Wrench 6	PARTIAL ENGINE ASSY(1NZ-FXE) CAMSHAFT(1NZ-FXE)
	(09043-20080) Socket Hexagon Wrench 8	CYLINDER HEAD ASSY(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE) CAMSHAFT(1NZ-FXE) VALVE CLEARANCE(1NZ-FXE)
	(09043-20100) Socket Hexagon Wrench 10	CYLINDER HEAD ASSY(1NZ-FXE)
	(09043-20120) Socket Hexagon Wrench 12	PARTIAL ENGINE ASSY(1NZ-FXE)
	09043-50080 Bi-hexagon Wrench 8 mm	CYLINDER HEAD GASKET(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE)
	09090-04020 Engine Sling Device	PARTIAL ENGINE ASSY(1NZ-FXE)

SSM

	08826-00080 Seal Packing Black or equivalent (FIPG)	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE) CAMSHAFT(1NZ-FXE) VALVE CLEARANCE(1NZ-FXE)
	08826-00100 "Seal Packing 1282B," THREE BOND 1282B or equivalent (FIPG)	PARTIAL ENGINE ASSY(1NZ-FXE) CHAIN SUB-ASSY(1NZ-FXE)
	08833-00070 "Adhesive 1324," THREE BOND 1324 or equivalent	ENGINE REAR OIL SEAL(1NZ-FXE) PARTIAL ENGINE ASSY(1NZ-FXE) CAMSHAFT(1NZ-FXE) VALVE CLEARANCE(1NZ-FXE)

Equipment

Alignment tester	
Angle gauge	
Bar (width 2 – 3 mm)	
Belt tension gauge	
Caliper gauge	
Chain Block	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator with magnetic base	
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 tension gauge	
Spring tester	
Steel square	
Sundpaper (#400)	
Tachometer	
Timing light	
Tire pressure gauge	
Toe-in gauge	
Torque wrench	
Universal engine lifter	
Valve seat cutter	
V-block	
Vernier calipers	
Wooden block	