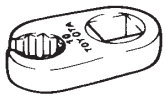
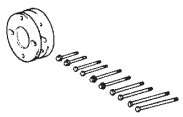
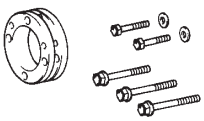
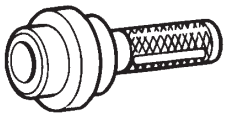
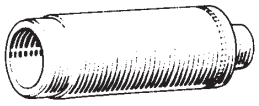
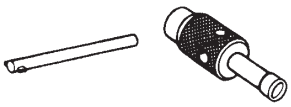
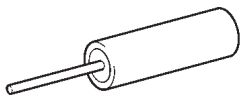
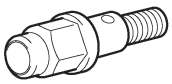
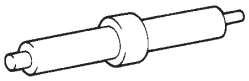
ENGINE MECHANICAL

PREPARATION

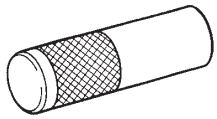
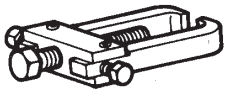
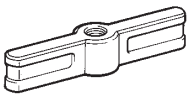
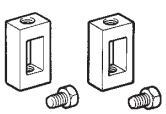
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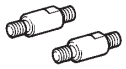
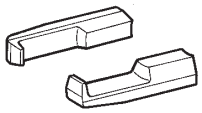
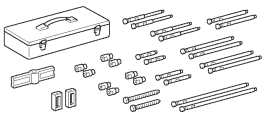
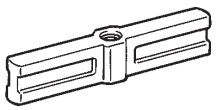
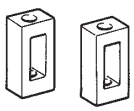
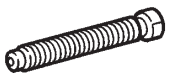
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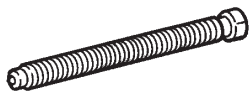
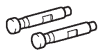
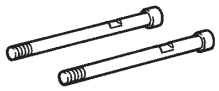
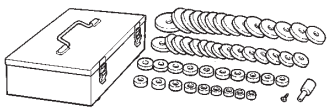
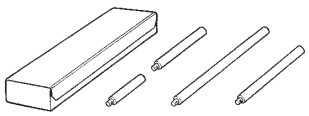
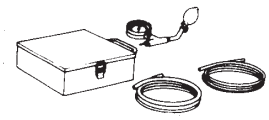
	09023–12701	Union Nut Wrench 17 mm	PARTIAL ENGINE ASSY(1GR–FE)(From August, 2004) CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CYLINDER HEAD GASKET(1KD–FTV)(From August, 2004)
	09032–00100	Oil Pan Seal Cutter	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) CHAIN(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09213–54015	Crankshaft Pulley Holding Tool	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(91651–60855)	Bolt	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09213–58013	Crankshaft Pully Holding Tool	PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004)

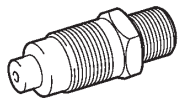
	09223–15030	Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(2TR–FE)
	09223–50010	Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE)
	09226–10010	Crankshaft Front & Rear Bearing Replacer	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	09228–10002	Oil Filter Wrench	PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CYLINDER HEAD GASKET(1KD–FTV)(From August, 2004)
	09243–00020	Idle Adjusting Screw Wrench	ENGINE(2TR–FE)
	09276–75010	Valve Lifter Tool	CYLINDER HEAD GASKET(2TR–FE)
	09280–00010	Inspection Union Bolt	CYLINDER HEAD GASKET(1KD–FTV)(From August, 2004)
	09301–00110	Clutch Guide Tool	PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09330–00021	Companion Flange Holding Tool	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)

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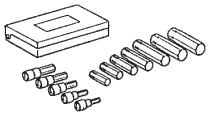
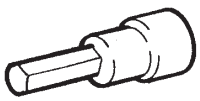
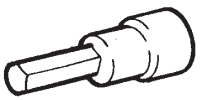
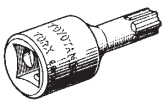
	09608–06041	Front Hub Inner Bearing Cone Replacer	CAMSHAFT(1KD–FTV)(From August, 2004)
	09628–62011	Ball Joint Puller	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	09843–18020	Diagnosis Check Wire	ENGINE(2TR–FE)
	09843–18030	Tacho–pulse Pickup Wire No. 2	PARTIAL ENGINE ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) ENGINE(2TR–FE) PARTIAL ENGINE ASSY(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09843–18040	Diagnosis Check Wire No. 2	VALVE CLEARANCE(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1GR–FE)(From August, 2004) CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CAMSHAFT (RH BANK)(1GR–FE)(From August, 2004) CAMSHAFT (LH BANK)(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) ENGINE(2TR–FE)
	09950–40011	Puller B Set	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)
	(09951–04010)	Hanger 150	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)
	(09952–04010)	Slide Arm	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)

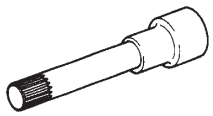
	(09953–04020)	Center Bolt 150	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)
	(09954–04010)	Arm 25	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)
	(09955–04061)	Claw No. 6	CAMSHAFT(1KD–FTV)(From August, 2004) CHAIN(2TR–FE)
	09950–50013	Puller C Set	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09951–05010)	Hanger 150	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09952–05010)	Slide Arm	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09953–05010)	Center Bolt 100	CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)

	(09953–05020)	Center Bolt 150	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004)
	(09954–05021)	Claw No. 2	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) CHAIN(2TR–FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09954–05030)	Claw No.3	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	09950–60010	Replacer Set	CYLINDER HEAD GASKET(2TR–FE)
	(09951–00300)	Replacer 30	CYLINDER HEAD GASKET(2TR–FE)
	09950–70010	Handle Set	ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09951–07100)	Handle 100	CYLINDER HEAD GASKET(2TR–FE)
	(09951–07150)	Handle 150	ENGINE REAR OIL SEAL(2TR–FE)
	09992–00242	Turbocharger Pressure Gauge	CYLINDER HEAD GASKET(1KD–FTV)(From August, 2004)

	09992–00500	Compression Gauge Attachment	ENGINE(2TR–FE)

Recommended Tools

	09040–00011	Hexagon Wrench Set	VALVE CLEARANCE(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1GR–FE)(From August, 2004) CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CAMSHAFT (RH BANK)(1GR–FE)(From August, 2004) CAMSHAFT (LH BANK)(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) CAMSHAFT(2TR–FE) CHAIN(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	(09043–20080)	Socket Hexagon Wrench 8	VALVE CLEARANCE(1GR–FE)(From August, 2004) PARTIAL ENGINE ASSY(1GR–FE)(From August, 2004) CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CAMSHAFT (RH BANK)(1GR–FE)(From August, 2004) CAMSHAFT (LH BANK)(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	(09043–20100)	Socket Hexagon Wrench 10	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) CAMSHAFT(2TR–FE) CHAIN(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09042–00010	Torx Socket T30	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)

	09043–50100	Bi–hexagon Wrench 10 mm	CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	09090–04020	Engine Sling Device	PARTIAL ENGINE ASSY(1KD–FTV)(From August, 2004) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	09216–00021	Belt Tension Gauge	ENGINE(2TR–FE)

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SSM

	08826–00080	Seal Packing Black or equivalent (FIPG)	VALVE CLEARANCE(1GR–FE)(From August, 2004) CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CAMSHAFT (RH BANK)(1GR–FE)(From August, 2004) CAMSHAFT (LH BANK)(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004) CAMSHAFT(1KD–FTV)(From August, 2004) CYLINDER HEAD GASKET(1KD–FTV)(From August, 2004) CAMSHAFT(2TR–FE) CHAIN(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)
	08826–00100	”Seal Packing 1282B” THREE BOND 1282B or equivalent (FIPG)	CHAIN SUB–ASSY(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET(1GR–FE)(From August, 2004) CYLINDER HEAD GASKET NO.2(1GR–FE)(From August, 2004)
	08833–00030	Three cement black or equivalent	CHAIN(2TR–FE)
	08833–00070	”Adhesive 1324” THREE BOND 1324 or equivalent	CAMSHAFT(2TR–FE) PARTIAL ENGINE ASSY(2TR–FE) CHAIN(2TR–FE) ENGINE REAR OIL SEAL(2TR–FE) CYLINDER HEAD GASKET(2TR–FE)

Equipment

Alignment tester	
Angle gauge	
Bar	
Chain Block	
CO/HC meter	
Compression gauge	
Dial indicator with magnetic base	
Engine Sling Device	
Feeler gauge	
Micrometer	
Plastigage	
Precision straight edge	
Radiator cap tester	
Slide calipers	
Steel square	
Tachometer	
Timing light	
Tire pressure gauge	
Toe–in gauge	
Torque wrench	
Vernier calipers	
Wooden block	