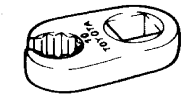
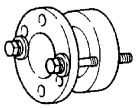
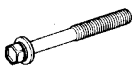
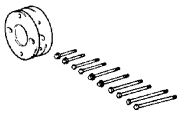
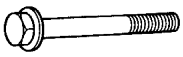
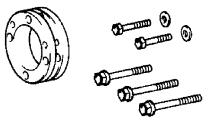
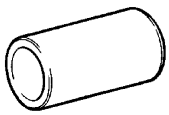
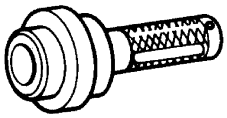
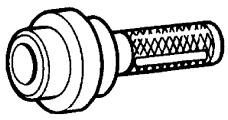
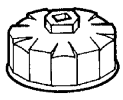
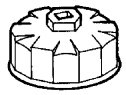
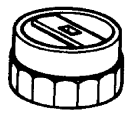
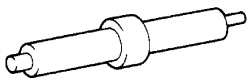
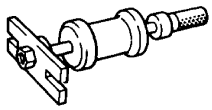
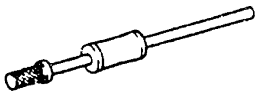
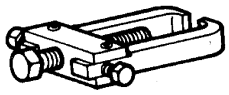
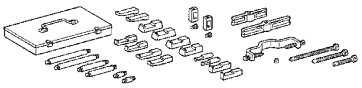
LUBRICATION

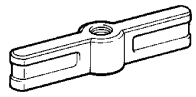
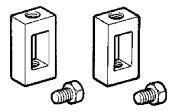
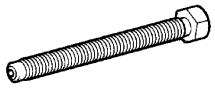
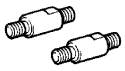
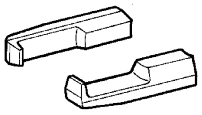
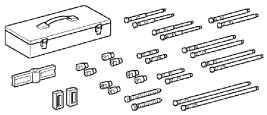
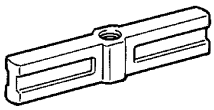
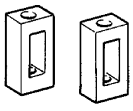
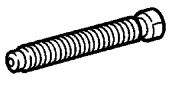
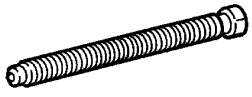
PREPARATION

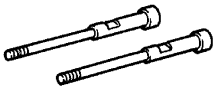
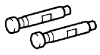
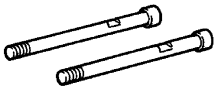
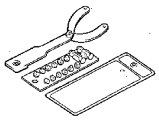
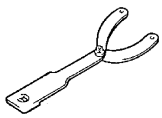
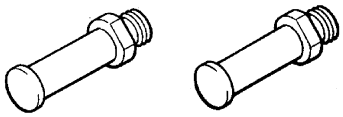
02209–01

SST

	09023–12700	Union Nut Wrench 17mm	TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	09032–00100	Oil Pan Seal Cutter	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09213–14010	Crankshaft Pulley Holding Tool	TIMING GEAR CASE SUB–ASSY (5L–E)
	(91651–60865)	Bolt	TIMING GEAR CASE SUB–ASSY (5L–E)
	09213–54015	Crankshaft Pulley Holding Tool	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E)
	(91651–60855)	Bolt	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E)
	09213–58013	Crankshaft Pully Holding Tool	TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	09223–00010	Cover & Seal Replacer	TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09223–46011	Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE)
	09223–50010	Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE SUB–ASSY (3RZ–FE)
	09228–07501	Oil Filter Wrench	OIL FILTER SUB–ASSY(3RZ–FE)

	09228–10002	Oil Filter Wrench	OIL FILTER SUB–ASSY(1KZ–TE) OIL COOLER ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) OIL FILTER SUB–ASSY(1KD–FTV)
	09228–44011	Oil Filter Wrench	OIL FILTER SUB–ASSY(5L–E) OIL COOLER ASSY(5L–E)
	09301–00110	Clutch Guide Tool	TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09330–00021	Companion Flange Holding Tool	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	09520–01010	Drive Shaft Remover Attachment	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09520–24010	Differential Side Gear Shaft Puller	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	(09520–32040)	Shocker Set	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09628–62011	Boll Joint Puller	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	09843–18030	Tacho–pulse Pickup Wire No.2	TIMING GEAR CASE SUB–ASSY (3RZ–FE)
	09950–40011	Puller B Set	TIMING GEAR CASE ASSY(1KZ–TE)

	(09951–04010)	Hanger 150	TIMING GEAR CASE ASSY(1KZ–TE)
	(09952–04010)	Slide Arm	TIMING GEAR CASE ASSY(1KZ–TE)
	(09953–04020)	Center Bolt 150	TIMING GEAR CASE ASSY(1KZ–TE)
	(09954–04010)	Arm 25	TIMING GEAR CASE ASSY(1KZ–TE)
	(09955–04061)	Claw No.6	TIMING GEAR CASE ASSY(1KZ–TE)
	09950–50013	Puller C Set	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) OIL COOLER ASSY(1KZ–TE) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	(09951–05010)	Hanger 150	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) OIL COOLER ASSY(1KZ–TE) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	(09952–05010)	Slide Arm	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) OIL COOLER ASSY(1KZ–TE) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	(09953–05010)	Center Bolt 100	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E)
	(09953–05020)	Center Bolt 150	TIMING GEAR CASE SUB–ASSY (5L–E) OIL COOLER ASSY(1KZ–TE) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)

	(09954–05010)	Claw No.1	TIMING GEAR CASE SUB–ASSY (5L–E) OIL COOLER ASSY(1KZ–TE) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)
	(09954–05021)	Claw No.2	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) OIL COOLER ASSY(1KD–FTV) TIMING GEAR CASE ASSY (1KD–FTV)
	(09954–05030)	Claw No.3	TIMING GEAR CASE SUB–ASSY (5L–E)
	09960–10010	Variable Pin Wrench Set	TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE)
	(09962–01000)	Variable Pin Wrench Arm Assy	TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE)
	(09963–01000)	Pin 10	TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE)

SSM

08826–00080	Seal Packing Black or equivalent (FIPG)	TIMING GEAR CASE SUB–ASSY (3RZ–FE) TIMING GEAR CASE SUB–ASSY (5L–E) TIMING GEAR CASE ASSY(1KZ–TE) TIMING GEAR CASE ASSY (1KD–FTV)

Equipment

Belt tension gauge	
Compression gauge	
CO/HC meter	
Dial indicator	
Hexagon wrench (10 mm)	
Press	
Radiator cap tester	
Slid calipers	
Steel square	
Tachometer	
Timing light	
Torque wrench	
Vernier calipers	

Lubricant (3RZ–FE)

Item		Capacity	Classification
Oil grade		–	API grade SJ or SH, Energy–Conserving or ILSAC, multi–grade engine oil
Drain and refill	w/ oil filter change	5.1 liters (5.4 US qts, 4.5 Imp. qts)	–
	w/o oil filter change	4.4 liters (4.6 US qts, 3.9 Imp. qts)	
Dry fill		5.1 liters (5.4 US qts, 4.5 Imp. qts)	–

Lubricant (5L)

Item		Capacity	Classification
Oil grade		–	API grade CF–4 or CD
Drain and refill	w/ oil filter change	6.9 liters (7.3 US qts, 6.1 Imp. qts)	–
	w/o oil filter change	6.1 liters (6.4 US qts, 5.4 Imp. qts)	
Dry fill		7.6 liters (8.0 US qts, 6.7 Imp. qts)	–

Lubricant (1KZ–TE)

Item		Capacity	Classification
Oil grade			API grade CF–4 or CD
Drain and refill	w/ oil filter change	7.0 liters (7.4 US qts, 6.2 Imp. qts)	–
	w/o oil filter change	6.3 liters (6.7 US qts, 5.5 Imp. qts)	
Dry fill		7.5 liters (7.9 US qts, 6.6 Imp. qts)	–

Lubricant (1KD–FTV)

Item		Capacity	Classification
Oil grade			API grade CF–4 or CD
Drain and refill	w/ oil filter change	7.4 liters (7.8 US qts, 6.5 Imp. qts)	–
	w/o oil filter change	6.7 liters (7.1 US qts, 5.9 Imp. qts)	
Dry fill		7.9 liters (8.3 US qts, 7.0 Imp. qts)	–