

DIAGNOSTICS

PREPARATION

023NVW-01

Recomended Tools

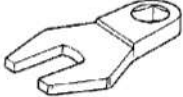
	09082-00040 TOYOTA Electrical Tester	ECD SYSTEM(1CD-FTV)(From September, 2003) SFI SYSTEM(2AZ-FSE) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U151E)
	(09083-00150) Test Lead Set	ECD SYSTEM(1CD-FTV)(From September, 2003) SFI SYSTEM(2AZ-FSE) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U151E)

ENGINE CONTROL SYSTEM

PREPARATION

023FL-01

SST

	09023-12900 Union Nut Wrench 19mm	KNOCK SENSOR(2AZ-FSE)
	(09617-24011) Steering Rack Wrench	KNOCK SENSOR(2AZ-FSE)

Recommended Tools

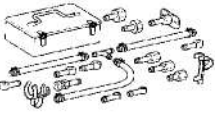
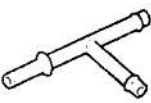
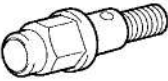
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	(09083-00150) Test Lead Set	SFI SYSTEM(2AZ-FSE)

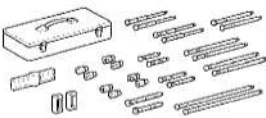
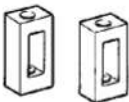
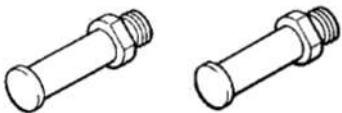
Equipment

Ohmmeter	
Radiator cap tester	
Service wire harness	
Torque wrench	
Torx socket E7	
Voltmeter	

FUEL PREPARATION SST

023FM-01

	09023-12700	Union Nut Wrench 17mm	INJECTOR ASSY(1CD-FTV)(From September, 2003) INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003) COMMON RAIL ASSY(1CD-FTV)(From September, 2003)
	09023-12900	Union Nut Wrench 19mm	FUEL INJECTOR ASSY(2AZ-FSE)
	09213-54015	Crankshaft Pulley Holding Tool	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(90105-08076)	Bolt	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	09268-41047	Injection Measuring Tool Set	FUEL SYSTEM(2AZ-FSE)
	(95336-08070)	Hose	FUEL SYSTEM(2AZ-FSE)
	09268-45014	EFI Fuel Pressure Gauge	FUEL SYSTEM(2AZ-FSE)
	(09268-41250)	T Joint	FUEL SYSTEM(2AZ-FSE)
	(09268-41200)	Gauge	FUEL SYSTEM(2AZ-FSE)
	(09268-41220)	Hose	FUEL SYSTEM(2AZ-FSE)
	09280-00010	Union Bolt, inspection	INJECTOR ASSY(1CD-FTV)(From September, 2003)

	09330-00021	Companion Flange Holding Tool	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09617-24011)	Steering Rack Wrench	FUEL INJECTOR ASSY(2AZ-FSE) FUEL PUMP ASSY(2AZ-FSE)
	09808-14010	Fuel Sender Gauge Tool Assy	FUEL SUCTION W/ PUMP & GAUGE TUBE ASSY(2AZ-FSE) FUEL TANK ASSY(2AZ-FSE)
	09950-50013	Puller C Set	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09951-05010)	Hanger 150	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09952-05010)	Slide Arm	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09953-05020)	Center Bolt 150	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09954-05021)	Claw No.2	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09954-05031)	Claw No.3	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	09960-10010	Variable Pin Wrench Set	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09962-01000)	Variable Pin Wrench Arm Assy	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	(09963-01000)	Pin 10	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)
	09992-00242	Turbocharger Pressure Gauge	INJECTOR ASSY(1CD-FTV)(From September, 2003)

Recommended Tools

	09042-00020	Torx Socket T40	FUEL INJECTOR ASSY(2AZ-FSE)
	09082-00040	TOYOTA Electrical Tester	FUEL SYSTEM(1CD-FTV)(From September, 2003) FUEL SYSTEM(2AZ-FSE)
	(09083-00150)	Test Lead Set	FUEL SYSTEM(2AZ-FSE)
	09216-00021	Belt Tension Gauge	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)(From September, 2003)

SSM

	08826-00080	Seal Packing Black or equivalent (FIPG)	INJECTOR ASSY(1CD-FTV)(From September, 2003)
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Equipment

Clip	
Hexagon wrench (6 mm)	
Ohmmeter	
Plastic bag	
Radiator cap tester	
Service wire harness	
Torque wrench	
Torx socket E7	
Vernier calipers	
Vinyl bag	
Wooden block	

EMISSION CONTROL

PREPARATION

023FN-01

Recommended Tools

	09082-00040 TOYOTA Electrical Tester	EMISSION CONTROL SYSTEM (2AZ-FSE)
	(09083-00150) Test Lead Set	EMISSION CONTROL SYSTEM (2AZ-FSE)

Equipment

Hand-held vacuum pump	
Hose	
Ohmmeter	
Service wire harness	
Vacuum gauge	

INTAKE
PREPARATION
SST

023FQ-01

	09023-38200 Union Nut Wrench 12mm	TURBOCHARGER SUB-ASSY(1CD-FTV)(From September, 2003)
	09023-38400 Union Nut Wrench 14mm	TURBOCHARGER SUB-ASSY(1CD-FTV)(From September, 2003)

Recommended Tools

	09082-00040 TOYOTA Electrical Tester	INTAKE AIR CONTROL SYSTEM (2AZ-FSE)
	(09083-00150) Test Lead Set	INTAKE AIR CONTROL SYSTEM (2AZ-FSE)

Equipment

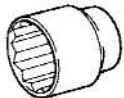
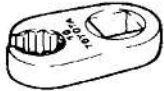
3-way connector	
Hand-held vacuum pump	
Ohmmeter	
Radiator cap tester	
Service wire harness	
Torque wrench	
Vernier calipers	
Vacuum gauge	
Wooden block	

ENGINE MECHANICAL

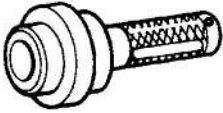
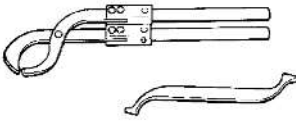
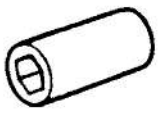
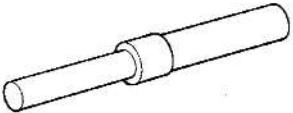
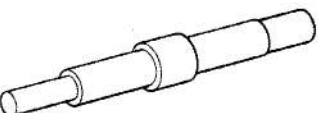
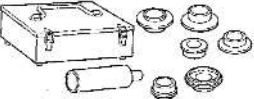
PREPARATION

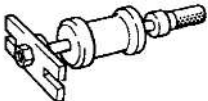
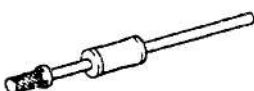
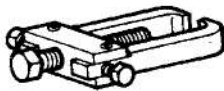
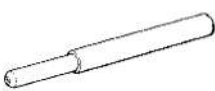
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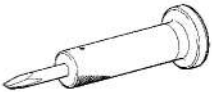
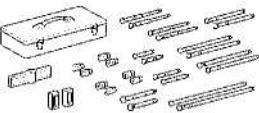
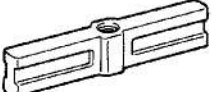
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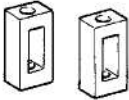
	09011-12271	Socket Wrench for 27 mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003)
	09023-00100	Union Nut Wrench 10 mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003)
	09023-12700	Union Nut Wrench 17mm	VALVE CLEARANCE(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003)
	09023-12900	Union Nut Wrench 19mm	VALVE CLEARANCE(2AZ-FSE) PARTIAL ENGINE ASSY(2AZ-FSE) CHAIN SUB-ASSY(2AZ-FSE) CAMSHAFT(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE)
	09023-38200	Union Nut Wrench 12mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003)
	09023-38400	Union Nut Wrench 14mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003)
	09032-00100	Oil Pan Seal Cutter	CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE)

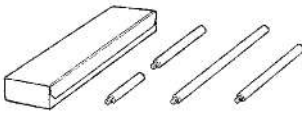
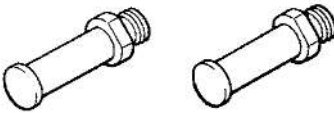
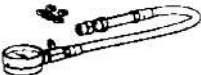
	09213-54015 Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(2AZ-FSE) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) ENGINE REAR OIL SEAL(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09213-70020) Bolt	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	(91651-60855) Bolt	PARTIAL ENGINE ASSY(2AZ-FSE) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) ENGINE REAR OIL SEAL(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	09223-15030 Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(2AZ-FSE)
	09223-22010 Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)

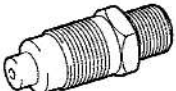
	09223-46011	Crankshaft Front Oil Seal Replacer	CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	09248-55050	Valve Clearance Adjust Tool Set	VALVE CLEARANCE(1CD-FTV)(From September, 2003)
	(09248-05510)	Valve Lifter Press	VALVE CLEARANCE(1CD-FTV)(From September, 2003)
	(09248-05520)	Valve Lifter Stopper	VALVE CLEARANCE(1CD-FTV)(From September, 2003)
	09249-63010	Torque Wrench Adaptor	FAN AND GENERATOR V BELT(2AZ-FSE) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	09268-46021	Nozzle Holder Retaining Nut Wrench	PARTIAL ENGINE ASSY(2AZ-FSE)
	09301-00210	Clutch Guide Tool	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003)
	09301-00220	Clutch Guide Tool	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09316-60011	Transmission & Transfer Bearing Replacer	CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	(09316-00011)	Replacer Pipe	CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)

	09330-00021 Companion Flange Holding Tool	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(2AZ-FSE) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) ENGINE REAR OIL SEAL(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09330-00030) Pin	PARTIAL ENGINE ASSY(2AZ-FSE)
	09520-01010 Drive Shaft Remover Attachment	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09520-24010 Differential Side Gear Shaft Puller	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	(09520-32040) Shocker Set	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09628-62011 Boll Joint Puller	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09670-00010 Front Crossmember Guide Tool	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09817-33190 Sensor Socket Wrench	PARTIAL ENGINE ASSY(2AZ-FSE)
	09843-18030 Tacho-pulse Pickup Wire No.2	ENGINE(2AZ-FSE)

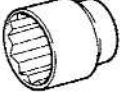
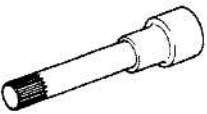
	09843-18040 Diagnosis Check Wire No.2	ENGINE(1CD-FTV)(From September, 2003) ENGINE(2AZ-FSE)
	09930-00010 Drive Shaft Nut Chisel	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09950-50013 Puller C Set	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09951-05010) Hanger 150	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)

	(09952-05010) Slide Arm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09953-05010) Center Bolt 100	CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	(09953-05020) Center Bolt 150	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09954-05021) Claw No.2	CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) CHAIN SUB-ASSY(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(2AZ-FSE)
	(09954-05031) Claw No.3	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)

	09950-70010	Handle Set	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(2AZ-FSE)
	(09951-07100)	Handle 100	ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(2AZ-FSE)
	09960-10010	Variable Pin Wrench Set	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	(09962-01000)	Variable Pin Wrench Arm Assy	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	(09963-01000)	Pin 10	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	09992-00025	Cylinder Compression Check Gauge Set	ENGINE(1CD-FTV)(From September, 2003)
	(09992-00121)	No. 4 Attachment	ENGINE(1CD-FTV)(From September, 2003)
	(09992-00211)	Gauge Assy	ENGINE(1CD-FTV)(From September, 2003)

	09992-00242 Turbocharger Pressure Gauge	VALVE CLEARANCE(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003)
	09992-00500 Compression Gauge Attachment	ENGINE(2AZ-FSE)

Recommended Tools

	09011-12301 Socket Wrench 30 mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003)
	09017-38120 Deep Socket Wrench 12 mm	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003)
	09042-00020 Torx Socket T40	CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003)
	09043-50100 Bi-hexagon Wrench 10 mm	CYLINDER HEAD GASKET(2AZ-FSE)
	09090-04020 Engine Sling Device	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003)
	09216-00021 Belt Tension Gauge	ENGINE(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003)
	(09857-00031) Spark Plug Gap Gauge	ENGINE(2AZ-FSE)

Equipment

Slide calipers	
Wooden block	
Chain Block	
Spark plug cleaner	
Angle gauge	
Universal engine lifter	
Hexagon wrench (6 mm)	
CO/HC meter	
Compression gauge	
Dial indicator	
Dial indicator or dial indicator with magnetic base	
Feeler gauge	
Micrometer	
Radiator cap tester	
Tachometer	
Torque wrench	
Vernier calipers	
Dial indicator with magnetic base	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	

SSM

08826-00080	Seal Packing Black or equivalent (FIPG)	VALVE CLEARANCE(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) TIMING BELT(1CD-FTV)(From September, 2003) CAMSHAFT(1CD-FTV)(From September, 2003) CYLINDER HEAD GASKET(1CD-FTV)(From September, 2003) CRANKSHAFT SEAL(1CD-FTV)(From September, 2003) VALVE CLEARANCE(2AZ-FSE) CYLINDER HEAD GASKET(2AZ-FSE)
08833-00070	"Adhesive 1324," THREE BOND 1324 or equivalent	PARTIAL ENGINE ASSY(1CD-FTV)(From September, 2003) ENGINE REAR OIL SEAL(1CD-FTV)(From September, 2003) PARTIAL ENGINE ASSY(2AZ-FSE) ENGINE REAR OIL SEAL(2AZ-FSE)

**EXHAUST
PREPARATION**

023FF-01

Equipment

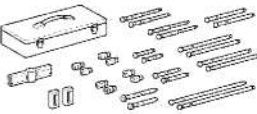
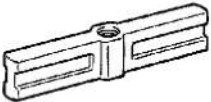
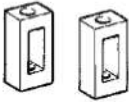
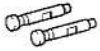
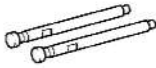
Torque wrench	
Vernier calipers	
Wooden block	

COOLING

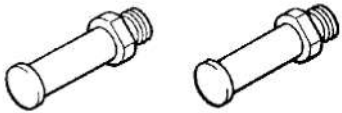
PREPARATION

SST

0230G-02

	09023-12700	Union Nut Wrench 17mm	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	09213-54015	Crankshaft Pulley Holding Tool	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09213-70020)	Bolt	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	09249-63010	Torque Wrench Adaptor	WATER PUMP ASSY(2AZ-FSE) THERMOSTAT(2AZ-FSE)	
	09330-00021	Companion Flange Holding Tool	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	09950-50013	Puller C Set	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09951-05010)	Hanger 150	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09952-05010)	Slide Arm	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09953-05020)	Center Bolt 150	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09954-05021)	Claw No.2	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	(09954-05031)	Claw No.3	WATER ASSY(1CD-FTV)(From 2003)	PUMP September,
	09960-10010	Variable Pin Wrench Set	WATER ASSY(1CD-FTV)(From 2003) WATER PUMP ASSY(2AZ-FSE)	PUMP September,

PREPARATION - COOLING

	(09962-01000) Variable Pin Wrench Arm Assy	WATER PUMP ASSY(1CD-FTV)(From September, 2003) WATER PUMP ASSY(2AZ-FSE)
	(09963-00700) Pin 7	WATER PUMP ASSY(2AZ-FSE)
	(09963-01000) Pin 10	WATER PUMP ASSY(1CD-FTV)(From September, 2003)

Recommended Tools

	09216-00021 Belt Tension Gauge	WATER PUMP ASSY(1CD-FTV)(From September, 2003)
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Equipment

Slide calipers	
Wooden block	
Heater	
Hexagon wrench (8 mm)	
Ohmmeter	
Radiator cap tester	
Thermometer	
Torque wrench	

SSM

	08826-00080 Seal Packing Black or equivalent (FIG)	WATER PUMP ASSY(1CD-FTV)(From September, 2003) WATER PUMP ASSY(2AZ-FSE)
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Coolant

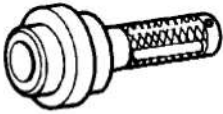
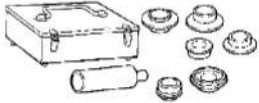
Item	Capacity	Classification
Engine coolant (2AZ-FSE) Left-hand drive vehicles Right-hand drive vehicles	6.3 liters (6.7 US qts, 5.5 Imp. qts) 6.4 liters (6.8 US qts, 5.6 Imp. qts)	"TOYOTA Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology
Engine coolant (1CD-FTV) w/ power heater w/o power heater	7.6 liters (8.0 US qts, 6.7 Imp. qts) 7.4 liters (7.8 US qts, 6.5 Imp. qts)	"TOYOTA Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology

LUBRICATION

PREPARATION

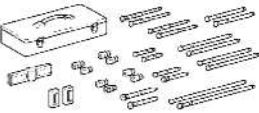
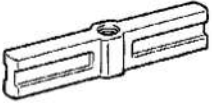
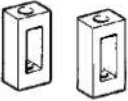
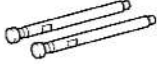
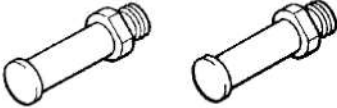
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023DH-02

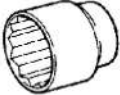
	09023-12900	Union Nut Wrench 19mm	OIL PUMP ASSY(2AZ-FSE)
	09032-00100	Oil Pan Seal Cutter	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	09213-54015	Crankshaft Pulley Holding Tool	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09213-70020)	Bolt	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(91651-60855)	Bolt	OIL PUMP ASSY(2AZ-FSE)
	09223-46011	Crankshaft Front Oil Seal Replacer	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	09228-06501	Oil Filter Wrench	OIL FILTER SUB-ASSY(2AZ-FSE) OIL COOLER ASSY(2AZ-FSE)
	09249-63010	Torque Wrench Adaptor	OIL PUMP ASSY(2AZ-FSE)
	09316-60011	Transmission & Transfer Bearing Replacer	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(09316-00011)	Replacer Pipe	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(09316-00021)	Replacer "A"	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	09330-00021	Companion Flange Holding Tool	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)

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PREPARATION - LUBRICATION

	09950-50013	Puller C Set	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09951-05010)	Hanger 150	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09952-05010)	Slide Arm	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09953-05010)	Center Bolt 100	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(09953-05020)	Center Bolt 150	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09954-05021)	Claw No.2	OIL PUMP ASSY(1CD-FTV)(From September, 2003) OIL PUMP ASSY(2AZ-FSE)
	(09954-05031)	Claw No.3	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	09960-10010	Variable Pin Wrench Set	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(09962-01000)	Variable Pin Wrench Arm Assy	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
	(09963-01000)	Pin 10	OIL PUMP ASSY(1CD-FTV)(From September, 2003)

Recommended Tools

	09011-12301	Socket Wrench 30 mm	OIL COOLER ASSY(2AZ-FSE)
	09216-00021	Belt Tension Gauge	OIL PUMP ASSY(1CD-FTV)(From September, 2003)

Equipment

Wooden block	
Radiator cap tester	

Torque wrench	
Vernier calipers	

SSM

08826-00080 Seal Packing Black or equivalent (FIG)	OIL PUMP ASSY(1CD-FTV)(From September, 2003)
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Lubricant

Item	Capacity	Classification
Oil grade (gasoline engine)	-	API grade "SL" Energy-Conserving or ILSAC multi grade engine oil.
Oil grade (diesel engine)	-	ACEA B1, API CF-4, CF or G-DLD-1 (You may also use API CE or CD.)
Drain and refill (2AZ-FSE) w/ oil filter change w/o oil filter change	3.8 liters (4.0 US qts, 3.3 Imp. qts) 3.6 liters (3.8 US qts, 3.2 Imp. qts)	-
Drain and refill (1CD-FTV) w/ oil filter change w/o oil filter change	5.9 liters (6.2 US qts, 5.2 Imp. qts) 5.3 liters (5.6 US qts, 4.7 Imp. qts)	-
Dry fill (2AZ-FSE)	4.5 liters (4.8 US qts, 4.0 Imp. qts)	-
Dry fill (1CD-FTV)	6.7 liters (7.1 US qts, 5.9 Imp. qts)	-

IGNITION

PREPARATION

SST

023FC-01

	09249-63010	Torque Wrench Adaptor	CRANKSHAFT POSITION SENSOR (2AZ-FSE)
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Recommended Tools

	09082-00040	TOYOTA Electrical Tester	IGNITION SYSTEM(2AZ-FSE)
	(09083-00150)	Test Lead Set	IGNITION SYSTEM(2AZ-FSE)
	09200-00010	Engine Adjust Kit	IGNITION SYSTEM(2AZ-FSE)
	(09857-00031)	Spark Plug Gap Gauge	IGNITION SYSTEM(2AZ-FSE)

Equipment

Ohmmeter	
Spark plug cleaner	
Torque wrench	
Voltmeter	

STARTING & CHARGING

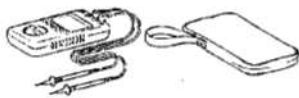
PREPARATION

023FQ-01

SST

	09249-63010 Torque Wrench Adaptor	GENERATOR ASSY(2AZ-FSE)
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Recommended Tools

	09082-00040 TOYOTA Electrical Tester	STARTING SYSTEM(2AZ-FSE)
	(09083-00150) Test Lead Set	STARTING SYSTEM(2AZ-FSE)

Equipment

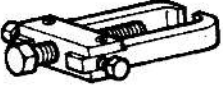
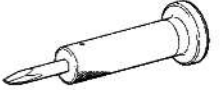
Ammeter (A)	
Ohmmeter	
Service wire harness	
Torque wrench	
Voltmeter	

FRONT SUSPENSION

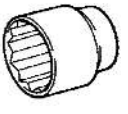
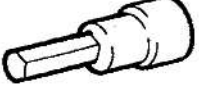
PREPARATION

023NN-01

SST

	09628-62011	Ball Joint Puller	LOWER BALL JOINT ASSY FRONT LH STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM)
	09930-00010	Drive Shaft Nut Chisel	LOWER BALL JOINT ASSY FRONT LH

Recommended Tools

	09011-12301	Socket Wrench 30 mm	LOWER BALL JOINT ASSY FRONT LH
	09040-00011	Hexagon Wrench Set	FRONT SHOCK ABSORBER WITH COIL SPRING STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM) FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(MTM)
	(09043-20060)	Socket Hexagon Wrench 6	FRONT SHOCK ABSORBER WITH COIL SPRING STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM) FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(MTM)

Equipment

Torque wrench	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Angle gauge	
Camber-caster-kingpin gauge	
Engine Sling Device	

TIRE & WHEEL PREPARATION

023NM-01

Equipment

Tire pressure gauge	
Dial indicator with magnetic base	
Wheel balancer	

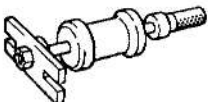
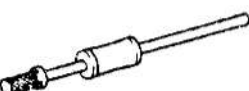
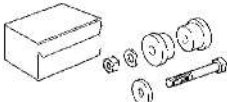
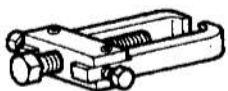
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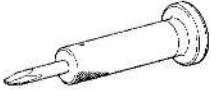
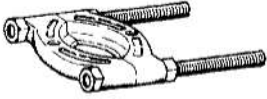
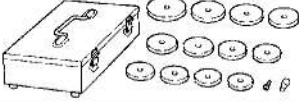
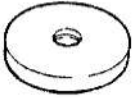
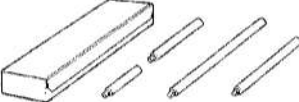
DRIVE SHAFT / PROPELLER SHAFT

PREPARATION

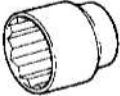
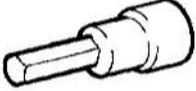
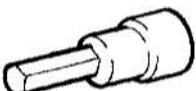
023BA-01

SST

	09240-00020	Wire Gauge Set	FRONT DRIVE SHAFT(2AZ-FSE)
	09520-01010	Drive Shaft Remover Attachment	FRONT DRIVE SHAFT(2AZ-FSE)
	09520-24010	Differential Side Gear Shaft Puller	FRONT DRIVE SHAFT(2AZ-FSE)
	(09520-32040)	Shocker Set	FRONT DRIVE SHAFT(2AZ-FSE)
	09521-24010	Rear Axle Shaft Puller	FRONT DRIVE SHAFT(2AZ-FSE)
	09527-10011	Rear Axle Shaft Bearing Remover	FRONT DRIVE SHAFT(2AZ-FSE)
	09608-16042	Front Hub Bearing Adjusting Tool	FRONT DRIVE SHAFT(2AZ-FSE)
	(09608-02021)	Bolt & Nut	FRONT DRIVE SHAFT(2AZ-FSE)
	(09608-02041)	Retainer	FRONT DRIVE SHAFT(2AZ-FSE)
	09628-62011	Boll Joint Puller	FRONT DRIVE SHAFT(2AZ-FSE)
	09710-04081	Base	FRONT DRIVE SHAFT(2AZ-FSE)
	09726-40010	Lower Control Shaft Bearing Replacer	FRONT DRIVE SHAFT(2AZ-FSE)

	09930-00010	Drive Shaft Nut Chisel	FRONT DRIVE SHAFT(2AZ-FSE)
	09950-00020	Bearing Remover	FRONT DRIVE SHAFT(2AZ-FSE)
	09950-60020	Replacer Set No.2	FRONT DRIVE SHAFT(2AZ-FSE)
	(09951-00710)	Replacer 71	FRONT DRIVE SHAFT(2AZ-FSE)
	09950-70010	Handle Set	FRONT DRIVE SHAFT(2AZ-FSE)
	(09951-07100)	Handle 100	FRONT DRIVE SHAFT(2AZ-FSE)

Recommended Tools

	09011-12301	Socket Wrench 30 mm	FRONT DRIVE SHAFT(2AZ-FSE)
	09040-00011	Hexagon Wrench Set	FRONT DRIVE SHAFT(2AZ-FSE)
	(09043-20060)	Socket Hexagon Wrench 6	FRONT DRIVE SHAFT(2AZ-FSE)
	09904-00010	Expander Set	FRONT DRIVE SHAFT(2AZ-FSE)
	(09904-00050)	No. 4 Claw	FRONT DRIVE SHAFT(2AZ-FSE)
	09905-00012	Snap Ring No.1 Expander	FRONT DRIVE SHAFT(2AZ-FSE)
	(09043-20060)	Socket Hexagon Wrench 6	FRONT DRIVE SHAFT(2AZ-FSE)

Equipment

Torque wrench	
Dial gauge with magnetic base	

Lubricant

Item		Capacity
Front drive shaft	Outboard joint grease	152 to 162 g (5.4 to 5.7 oz.)
	Inboard joint grease	170 to 190 g (6.0 to 6.7 oz.)

BRAKE
PREPARATION
SST

0222Q-01

	09023-00100 Union Nut Wrench 10 mm	BRAKE BOOSTER ASSY(RHD) (2AZ-FSE)
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Equipment

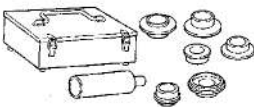
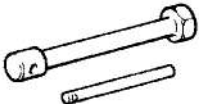
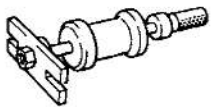
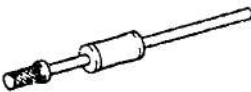
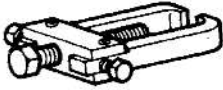
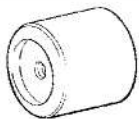
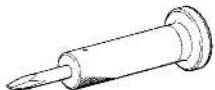
Torque wrench	
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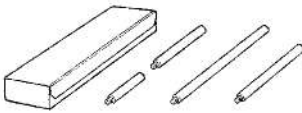
AUTOMATIC TRANSMISSION / TRANS

PREPARATION

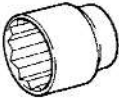
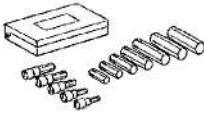
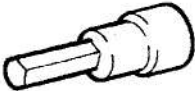
023N8-01

SST

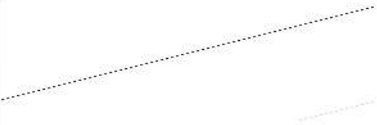
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	09316-60011 Transmission & Transfer Bearing Replacer	FRONT DIFFERENTIAL OIL SEAL(U151E)
	(09316-00011) Replacer Pipe	FRONT DIFFERENTIAL OIL SEAL(U151E)
	09350-32014 TOYOTA Automatic Transmission Tool Set	AUTOMATIC ASSY(U151E) TRANSAXLE
	(09351-32010) One-way Clutch Test Tool	AUTOMATIC ASSY(U151E) TRANSAXLE
	(09351-32020) Stator Stopper	AUTOMATIC ASSY(U151E) TRANSAXLE
	09520-01010 Drive Shaft Remover Attachment	AUTOMATIC ASSY(U151E) TRANSAXLE
	09520-24010 Differential Side Gear Shaft Puller	AUTOMATIC ASSY(U151E) TRANSAXLE
	(09520-32040) Shocker Set	AUTOMATIC ASSY(U151E) TRANSAXLE
	09628-62011 Boll Joint Puller	AUTOMATIC ASSY(U151E) TRANSAXLE
	09649-17010 Steering Knuckle Tool	FRONT DIFFERENTIAL OIL SEAL(U151E)
	09930-00010 Drive Shaft Nut Chisel	AUTOMATIC ASSY(U151E) TRANSAXLE

	09950-70010 Handle Set	FRONT DIFFERENTIAL OIL SEAL(U151E)
	(09951-07150) Handle 150	FRONT DIFFERENTIAL OIL SEAL(U151E)

Recommended Tools

	09011-12301 Socket Wrench 30 mm	AUTOMATIC TRANSAXLE ASSY(U151E)
	09040-00011 Hexagon Wrench Set	TRANSMISSION COOLER(U151E) OIL AUTOMATIC TRANSAXLE ASSY(U151E) TRANSMISSION WIRE(U151E) TRANSMISSION VALVE BODY ASSY(U151E) FRONT DIFFERENTIAL OIL SEAL(U151E)
	(09043-20100) Socket Hexagon Wrench 10	TRANSMISSION COOLER(U151E) OIL AUTOMATIC TRANSAXLE ASSY(U151E) TRANSMISSION WIRE(U151E) TRANSMISSION VALVE BODY ASSY(U151E) FRONT DIFFERENTIAL OIL SEAL(U151E)
	09090-04020 Engine Sling Device	AUTOMATIC TRANSAXLE ASSY(U151E)

SSM

	08833-00080 Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	TRANSMISSION WIRE(U151E) TRANSMISSION VALVE BODY ASSY(U151E)
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Equipment

Straight edge	
Torque wrench	
Vernier calipers	
Dial indicator with magnetic base	
Slide calipers	

Lubricant

U151E Automatic transaxle fluid Dry fill Drain and refill	8.8 liter (9.3 USqts, 7.7 Imp.qts) 3.5 liter (3.7 USqts, 3.1 Imp.qts)	ATF type T-IV
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HEATER & AIR CONDITIONER

PREPARATION

023N3-01

SST

	07110-58060	Air Conditioner Service Tool Set	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-58060)	Refrigerant Drain Service Valve	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-58070)	T-Joint	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-58080)	Quick Disconnect Adapter	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-58090)	Quick Disconnect Adapter	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-78050)	Refrigerant Charging Gauge	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-88060)	Refrigerant Charging Hose	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-88070)	Refrigerant Charging Hose	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	(07117-88080)	Refrigerant Charging Hose	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
	09249-63010	Torque Wrench Adaptor	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR

Recommended Tools

	95416-00140	Gas Leak Detector (Halogen Leak Detector) (DENSO Part No.)	W/PULLEY ASSY(2AZ-FSE)	COMPRESSOR
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Equipment

Voltmeter	
Ammeter	
Ohmmeter	
Vinyl tape	
Gas leak detector	
Torque wrench	

Lubricant

Item	Capacity	Classification
Compressor oil	–	ND-OIL 8 or equivalent