

MAINTENANCE
EQUIPMENT

PP0Q1-04

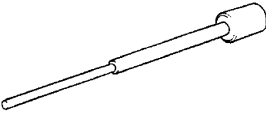
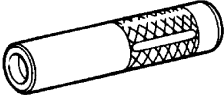
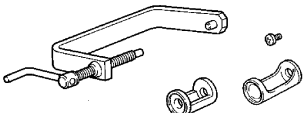
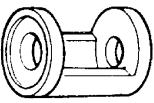
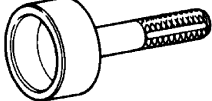
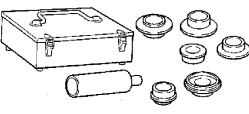
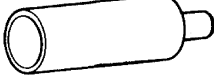
Mirror	Brake hose
Torque wrench	



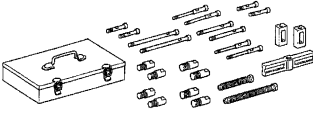
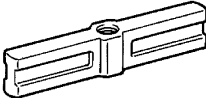
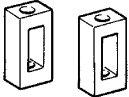
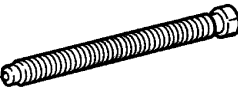
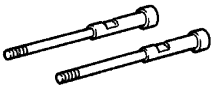
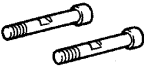
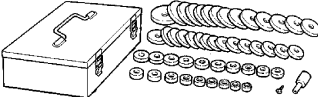
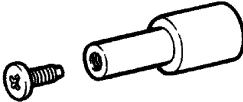
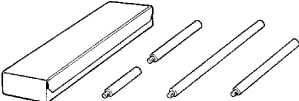
ENGINE MECHANICAL (3UZ-FE)

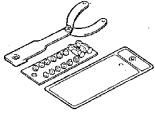
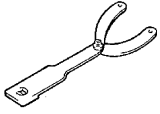
SST (Special Service Tools)

PP0U1-03

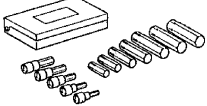
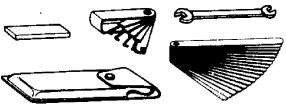
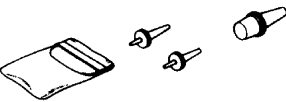
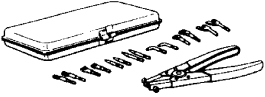
	09201-01055	Valve Guide Bushing Remover & Replacer 5.5	
	09201-41020	Valve Stem Oil Seal Replacer	
	09202-70020	Valve Spring Compressor	
	(09202-00010)	Attachment	
	09213-70010	Crankshaft Pulley Holding Tool	
	09222-30010	Connecting Rod Bushing Remover & Replacer	
	09223-46011	Crankshaft Front Oil Seal Replacer	Crankshaft pulley Crankshaft timing pulley
	09223-56010	Crankshaft Rear Oil Seal Replacer	
	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00011)	Replacer Pipe	Crankshaft front oil seal
	09330-00021	Companion Flange Holding Tool	Crankshaft pulley
	09843-18020	Diagnosis Check Wire	

PREPARATION - ENGINE MECHANICAL (3UZ-FE)

	09950-50012 Puller C Set	
	(09951-05010) Hanger 150	Crankshaft pulley Crankshaft timing pulley
	(09952-05010) Slide Arm	Crankshaft pulley Crankshaft timing pulley
	(09953-05010) Center Bolt 100	Crankshaft pulley Crankshaft timing pulley
	(09953-05020) Center Bolt 150	Crankshaft pulley Crankshaft timing pulley
	(09954-05010) Claw No.1	Crankshaft timing pulley
	(09954-05020) Claw No.2	Crankshaft pulley
	09950-60010 Replacer Set	
	(09951-00240) Replacer 24	Spark plug tube gasket
	(09951-00440) Replacer 44	Spark plug tube gasket
	(09952-06010) Adapter	Spark plug tube gasket
	09950-70010 Handle Set	
	(09951-07100) Handle 100	Spark plug tube gasket Valve guide bushing

	09960-10010 Variable Pin Wrench Set	
	(09962-01000) Variable Pin Wrench Arm Assy	Camshaft drive gear Camshaft driven sub-gear Camshaft timing tube
	(09963-00350) Pin 3.5	Camshaft timing pulley
	(09963-00400) Pin 4	Camshaft timing tube
	(09963-00500) Pin 5	Camshaft driven sub-gear Camshaft drive gear
	(09963-00500) Pin 5	Camshaft drive gear Camshaft driven sub-gear

RECOMMENDED TOOLS

	09040-00011 Hexagon Wrench Set .	
	09090-04020 Engine Sling Device	For suspension engine
	09200-00010 Engine Adjust Kit .	
	09258-00030 Hose Plug Set .	Plug for vacuum hose, fuel hose etc.
	09904-00010 Expander Set .	

EQUIPMENT

Abrasive compound	Valve
Caliper gauge	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator	
Dye penetrant	
Engine tune-up tester	
Groove cleaning tool	Piston ring groove
Heater	
Magnetic finger	
Micrometer	
OBD scan tool	
Pin hole grinder	Connecting rod bushing
Piston ring compressor	
Piston ring expander	
Plastigage	
Precision straight edge	
Press	
Ridge reamer	Cylinder
Soft brush	
Solvent	
Spring tester	Valve spring
Steel square	Valve spring
Thermometer	
Torque wrench	
Valve seat cutter	
V-block	
Vernier calipers	
Wire brush	Valve

SSM (Special Service Materials)

08826-00080	Seal Packing Black or equivalent (FIPG)	Camshaft front bearing cap Camshaft housing plug Cylinder head semi-circular plug Cylinder head cover
08826-00080	Seal Packing Black or equivalent (FIPG)	Rear oil seal retainer Water seal plate
08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	Engine coolant drain union
08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	Drive plate bolt Spark plug tube Torque converter clutch bolt
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	No.1 timing belt idler pulley bolt

EMISSION CONTROL (2JZ-GE)
EQUIPMENT

PP8E4-01

Torque wrench	
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EMISSION CONTROL (3UZ-FE)

PP0NF-07

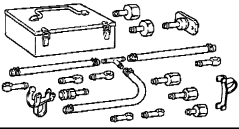
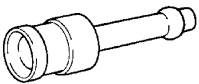
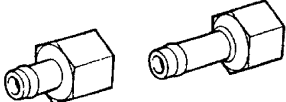
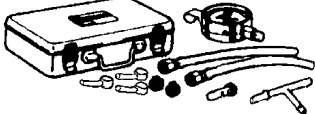
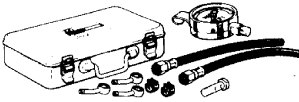
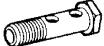
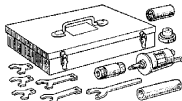
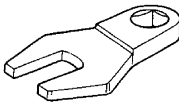
EQUIPMENT

Torque wrench	
Vacuum gauge	
Hose Clipper	

ELECTRONIC FUEL INJECTION (3UZ-FE)

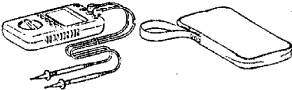
SST (Special Service Tools)

PP1Y0-02

	09023-12700 Union Nut Wrench 17mm	
	09268-41047 Injection Measuring Tool Set	
	(09268-41110) Adaptor	
	(09268-41300) Clamp	
	(09268-52011) Injection Measuring Attachment	
	09268-45014 EFI Fuel Pressure Gauge	
	09268-45012 EFI Fuel Pressure Gauge	
	(09268-41190) Adaptor	
	(90405-06167) I Union	
	09612-24014 Steering Gear Housing Overhaul Tool Set	
	(09617-24011) Steering Rack Wrench	Fuel pressure pulsation damper
	09816-30010 Oil Pressure Switch Socket	Knock sensor

 09842-30070 Wiring "F" EFI Inspection	
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RECOMMENDED TOOLS

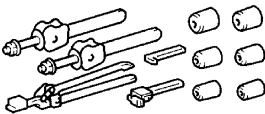
	09082-00040 TOYOTA Electrical Tester.	
	09258-00030 Hose Plug Set .	Plug for vacuum hose, fuel hose etc.

EQUIPMENT

Graduated cylinder	Injector
Sound scope	Injector
Torque wrench	
Vacuum gauge	

COOLING (3UZ-FE)
SST (Special Service Tools)

PP0NJ-04

	09230-01010 Radiator Service Tool Set	
	09231-14010 Punch	

RECOMMENDED TOOLS

 09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Heater	
Radiator cap tester	
Thermometer	
Torque wrench	
Vernier calipers	

COOLANT

Item	Capacity	Classification
Engine coolant (w/ Heater)	9.8 liters (10.4 US qts, 8.6 Imp. qts)	TOYOTA LONG LIFE Antifreeze Coolant or equivalent

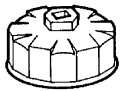
SSM (Special Service Materials)

08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	Water pump Water inlet housing
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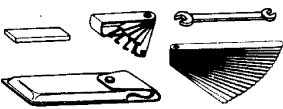
LUBRICATION (3UZ-FE)

SST (Special Service Tools)

PP3E5-01

	09032-00100 Oil Pan Seal Cutter	
	09228-07501 Oil Filter Wrench	

RECOMMENDED TOOLS

	09200-00010 Engine Adjust Kit .	
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EQUIPMENT

Oil pressure gauge	
Precision straight edge	
Torque wrench	

LUBRICANT

Item	Capacity	Classification
Engine oil		
Dry fill	6.9 liters (7.3 US qts, 6.1 Imp. qts)	API grade SH, Energy-Conserving II or SJ, Energy-Conserving or ILSAC multigrade engine oil.
Drain and refill		
w/ Oil filter change	5.5 liters (5.8 US qts, 4.8 Imp. qts)	
w/o Oil filter change	5.2 liters (5.5 US qts, 4.6 Imp. qts)	

SSM (Special Service Materials)

08826-00080	Seal Packing Black or equivalent (FIPG)	Oil pump No.1 oil pan No.2 oil pan
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	Oil pressure switch

IGNITION (2JZ-GE)
RECOMMENDED TOOLS

PP3E3-01

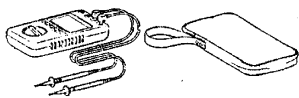
	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Megger insulation resistance meter	Spark plug
Spark plug cleaner	
Torque wrench	

IGNITION (3UZ-FE)
RECOMMENDED TOOLS

PP0NS-04

	09082-00040 TOYOTA Electrical Tester.	
	09200-00010 Engine Adjust Kit .	

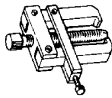
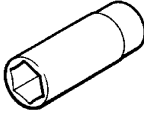
EQUIPMENT

Megger (Insulation resistance meter)	Spark plug
Spark plug cleaner	
Torque wrench	

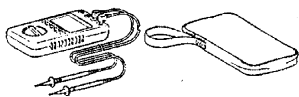
STARTING (3UZ-FE)

SST (Special Service Tools)

PP0NU-03

	09286-46011	Injection Pump Spline Shaft Puller	Armature front bearing
	09810-38140	Starter Magnet Switch Nut Wrench 14	
	09820-00030	Alternator Rear Bearing Replacer	Armature bearing

RECOMMENDED TOOLS

 09082-00040 TOYOTA Electrical Tester.	
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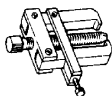
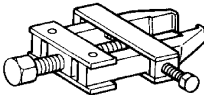
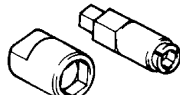
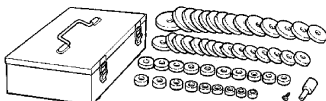
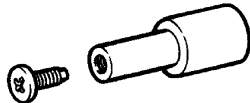
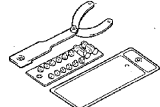
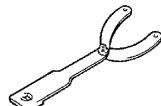
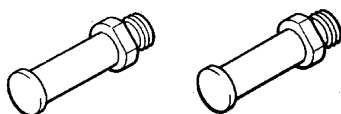
EQUIPMENT

Dial indicator	Commutator
Magnetic finger	Steel ball
Pull scale	Brush spring
Sandpaper	Commutator
Torque wrench	
V-block	Commutator
Vernier calipers	Commutator, Brush

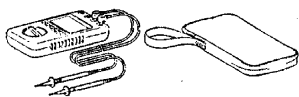
CHARGING (3UZ-FE)

SST (Special Service Tools)

PP0U8-02

	09285-76010	Injection Pump Camshaft Bearing Cone Replacer	Rotor rear bearing cover
	09286-46011	Injection Pump Spline Shaft Puller	Rectifier end frame
	09820-00021	Alternator Rear Bearing Puller	
	09820-00030	Alternator Rear Bearing Replacer	
	09820-63010	Alternator Pulley Set Nut Wrench Set	
	09950-60010	Replacer Set	
	(09951-00260)	Replacer 26	Rotor front bearing
	(09951-00520)	Replacer 52	Rotor front bearing
	(09952-06010)	Adapter	Rotor front bearing
	09960-10010	Variable Pin Wrench Set	
	(09962-01000)	Variable Pin Wrench Arm Assy	PS pump pulley
	(09963-01000)	Pin 10	PS pump pulley

RECOMMENDED TOOLS

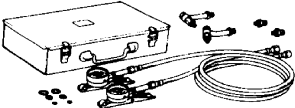
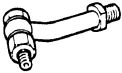
	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Battery specific gravity gauge	
Torque wrench	
Vernier calipers	Rotor (Slip ring), Brush

AUTOMATIC TRANSMISSION
SST (Special Service Tools)

PP3E1-01

	09032-00100 Oil Pan Seal Cutter	Oil pan
	09992-00095 Automatic Transmission Oil Pressure Gauge Set	
	(09992-00231) Adaptor C	
	(09992-00271) Gauge Assy	

RECOMMENDED TOOLS

 09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

OBD scan tool	
Straight edge	
Torque wrench	
Vernier calipers	

LUBRICANT

Item	Capacity	Classification
Automatic transmission fluid (2JZ-GE) Dry fill Drain and refill	8.2 liters (8.7 US qts, 7.2 Imp. qts) 2.0 liters (2.1 US qts, 1.8 Imp. qts)	ATF TYPE T-IV
Automatic transmission fluid (3UZ-FE) Dry fill Drain and refill	8.9 liters (9.4 US qts, 7.8 Imp. qts) 1.8 liters (1.9 US qts, 1.6 Imp. qts)	

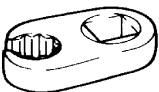
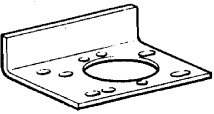
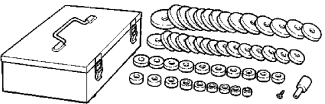
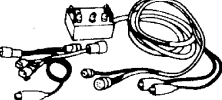
SSM (Special Service Materials)

08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)	Transmission case x Oil pan
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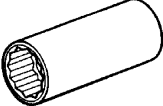
BRAKE

SST (Special Service Tools)

PP0Y1-02

	09023-00100	Union Nut Wrench 10 mm	
	09318-12010	Transfer Bearing Adjusting Nut Wrench	
	09630-00014	Power Steering Gear Housing Overhaul Tool Set	
	(09631-00142)	Overhaul Stand	
	09709-29018	LSPV Gauge Set	
	09843-18020	Diagnosis Check Wire	
	09950-60010	Replacer Set	
	(09951-00180)	Replacer 18	
	(09951-00190)	Replacer 19	
	09990-00150	ABS Actuator Checker and Sub-harness	
	09990-00240	ABS Actuator Checker Sheet "G"	
	09990-00480	ABS Actuator Checker Sub-harness "S"	

RECOMMENDED TOOLS

	09017-12301 Deep Socket Wrench 30 mm .	
	09082-00040 TOYOTA Electrical Tester.	

EQUIPMENT

Torque wrench	
Micrometer	Brake disc
Dial indicator	Brake disc
Vernier calipers	Brake disc

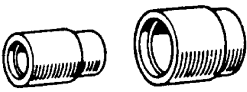
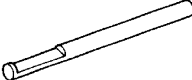
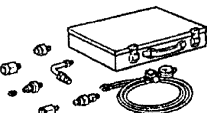
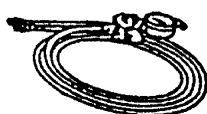
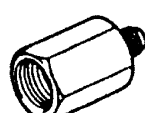
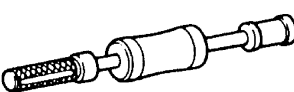
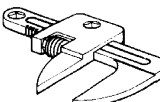
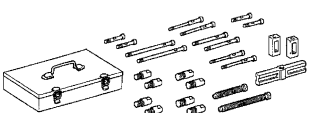
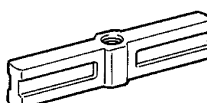
LUBRICANT

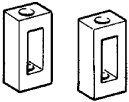
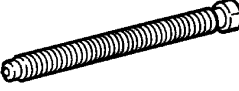
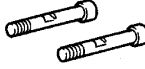
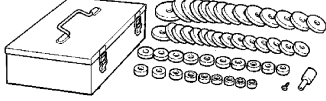
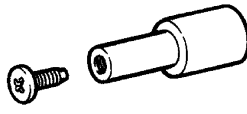
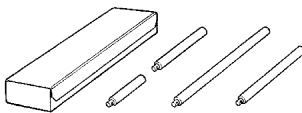
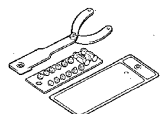
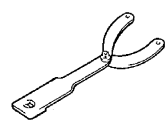
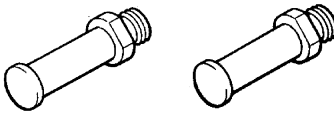
Item	Capacity	Classification
Brake fluid	-	SAE J1703 or FMVSS No. 116 DOT 3

STEERING

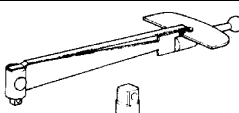
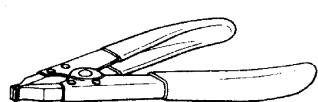
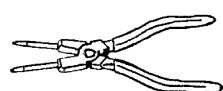
SST (Special Service Tools)

PP3DV-01

	09238-47012	Water Pump Bearing Remover & Replacer	POWER STEERING VANE PUMP
	09631-10030	Oil Seal Remover	POWER STEERING VANE PUMP
	09640-10010	Power Steering Pressure Gauge Set	POWER STEERING FLUID
	(09641-01010)	Gauge Assy	
	(09641-01030)	Attachment B	
	(09641-01060)	Attachment E	
	09910-00015	Puller Set	POWER STEERING VANE PUMP
	(09911-00011)	Puller Clamp	
	(09912-00010)	Puller Slide Hammer	
	09922-10010	Variable Open Wrench	POWER STEERING VANE PUMP
	09950-50012	Puller C Set	POWER TILT AND POWER TELESCOPIC STEERING COLUMN
	(09951-05010)	Hanger 150	

	(09952-05010) Slide Arm	
	(09953-05020) Center Bolt 150	
	(09954-05020) Claw No.2	
	09950-60010 Replacer Set	POWER STEERING VANE PUMP
	(09951-00180) Replacer 18	
	(09951-00300) Replacer 30	
	(09952-06010) Adapter	
	09950-70010 Handle Set	POWER STEERING VANE PUMP
	(09951-07100) Handle 100	
	09960-10010 Variable Pin Wrench Set	POWER STEERING VANE PUMP
	(09962-01000) Variable Pin Wrench Arm Assy	
	(09963-01000) Pin 10	

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 kgf-cm)	PS vane pump PS gear
	09042-00010 Torx Socket T30 .	Power tilt and power telescopic steering column
	09905-00012 Snap Ring No.1 Expander .	
	09905-00013 Snap Ring Pliers .	

EQUIPMENT

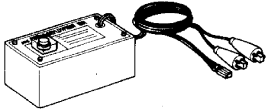
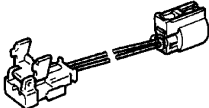
Caliper gauge	PS vane pump
Calipers	PS vane pump
Feeler gauge	PS vane pump
Micrometer	PS vane pump
Torque wrench	

LUBRICANT

Item		Capacity	Classification
Power steering fluid	Total	0.9 liters (1.0 US qts, 0.9 Imp.qts)	ATF DEXRON® II or III

SUPPLEMENTAL RESTRAINT SYSTEM
SST (Special Service Tools)

PP3DZ-01

	09082-00700 SRS Airbag Deployment Tool	
	09082-00760 Airbag Deployment Wire Sub-harness No.4	for Driver's and Front Passenger Airbag Assembly
	09843-18020 Diagnosis Check Wire	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Torque wrench	
Bolt: Length: 35 mm (1.38 in.) Pitch: 1.0 mm (0.039 in.) Diam: 6.0 mm (0.236 in.)	Airbag disposal
Tire Width: 185 mm (7.28 in.) Inner diam: 360 mm (14.17 in.)	Airbag disposal
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diam: 360 mm (14.17 in.)	Airbag disposal
Vinyl bag	Airbag disposal

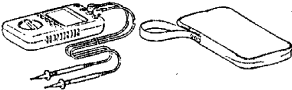
BODY ELECTRICAL

SST (Special Service Tools)

PP000-05

 09843-18020 Diagnosis Check Wire	
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RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Voltmeter	
Ammeter	
Ohmmeter	
Test lead	
Dry cell battery	Height control sensor

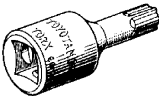
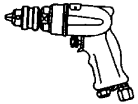
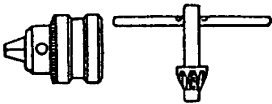
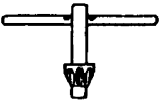
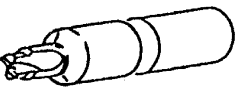
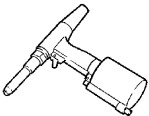
BODY

SST (Special Service Tools)

PP3DS-01

	09812-00010 Door Hinge Set Bolt Wrench	
	09806-30010 Windshield Moulding Remover	

RECOMMENDED TOOLS

	09042-00010 Torx Socket T30 .	
	09050-00032 Air Drill	
	(09050-00210) Chuck Set	
	(09050-00220) Handle	
	09060-60350 Revet Cutter.	
	09050-20010 Air Riveter.	
	(09050-02010) Dust Cap.	
	(09050-02040) Nose Piece No.3.	

EQUIPMENT

Clip remover	
Torque wrench	
Hexagon wrench (6 mm)	
Torx driver	
Hog ring pliers	
Drill	
Hand riveter	
Tape	To avoid surface damage
Adhesive tape	To avoid surface damage
Double-stick tape	
Adhesive	
Cleaner	
Shop rag	
Knife	
Scraper	
Sealer gun	
Brush	
Putty spatula	
Glass plate or similar object	For mixing the adhesive on
Wooden block or similar object	For tying both piano wire ends
Piano wire	
Plastic sheet	To avoid surface damage

LUBRICANT

Item	Capacity	Classification
MP grease	-	-

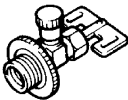
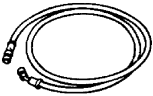
SSM (Special Service Materials)

08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	
08833-00030	Three cement black or equivalent	
08850-00801	Windshield Glass Adhesive Set or equivalent	

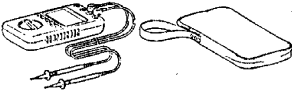
AIR CONDITIONING

SST (Special Service Tools)

PP3DX-01

	07110-58060 Air Conditioner Service Tool Set	
	(07117-58060) Refrigerant Drain Service Valve	
	(07117-58070) T-Joint	
	(07117-58080) Quick Disconnect Adapter	High pressure side
	(07117-58090) Quick Disconnect Adapter	Low pressure side
	(07117-88060) Refrigerant Charging Hose	High pressure side (Color: Red)
	(07117-88070) Refrigerant Charging Hose	Low pressure side (Color: Blue)
	(07117-88080) Refrigerant Charging Hose	Utility (Color: Green)

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Ohmmeter	
Test lead	
Torque wrench	