

MAINTENANCE EQUIPMENT




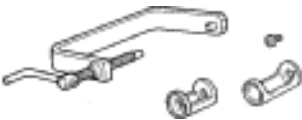








PP0E6-01

Mirror	Brake hose
Torque wrench	

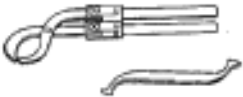







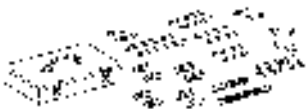




ENGINE MECHANICAL (5S-FE)









SST (Special Service Tools)

PP0JQ-04





	09201-10000 Valve Guide Bushing Remover & Replacer Set	
	(09201-01060) Valve Guide Bushing Remover & Replacer 6	
	09201-41020 Valve Stem Oil Seal Replacer	
	09202-70020 Valve Spring Compressor	
	(09202-00010) Attachment	
	09213-54015 Crankshaft Pulley Holding Tool	
	(91651-60855) Bolt	Crankshaft pulley (Type A)
	09222-30010 Connecting Rod Bushing Remover & Replacer	
	09223-15030 Oil Seal & Bearing Replacer	Crankshaft rear oil seal
	09223-46011 Crankshaft Front Oil Seal Replacer	Camshaft oil seal
	09224-74010 Engine Balancer Backlash Adjusting Tool	
	09226-10010 Crankshaft Front & Rear Bearing Replacer	Crankshaft front oil seal

PREPARATION – ENGINE MECHANICAL (5S-FE)

	09248-55040 Valve Clearance Adjust Tool Set	
	(09248-05410) Valve Lifter Press	
	(09248-05420) Valve Lifter Stopper	
	09249-63010 Torque Wrench Adaptor	Camshaft timing pulley
	09330-00021 Companion Flange Holding Tool	Crankshaft pulley
	09612-24014 Steering Gear Housing Overhaul Tool Set	
	(09617-24011) Steering Rack Wrench	Fuel inlet hose
	09843-18020 Diagnosis Check Wire	
	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 pulley (Type B) Crankshaft timing pulley
	(09954-05020) Claw No.2	Crankshaft pulley (Type A)
	09950-70010 Handle Set	
	(09951-07100) Handle 100	Valve guide bushing Crankshaft rear oil seal
	09960-10010 Variable Pin Wrench Set	
	(09962-01000) Variable Pin Wrench Arm Assy	Camshaft timing pulley Oil pump pulley Camshaft sub-gear gear
	(09963-00500) Pin 5	Oil pump pulley Camshaft sub-gear gear
	(09963-01000) Pin 10	Camshaft timing pulley

RECOMMENDED TOOLS

	09090-04020 Engine Sling Device	For suspending 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 aligner	
Cylinder gauge	
Dial indicator	
Dye penetrant	
Engine tune-up tester	
Groove cleaning tool	Piston ring groove
Heater	
Magnetic finger	
Micrometer	
OBDII scan tool	
Pin hole grinder	Piston pin hole of piston
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



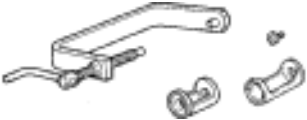
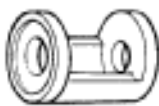

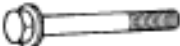






SSM (Special Service Materials)

08826-00080	Seal Packing Black or equivalent (FIPG)	Camshaft bearing cap Cylinder head cover Semi-circular plug
08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	Flywheel or drive plate bolt Torque converter clutch bolt
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	Oil pressure switch





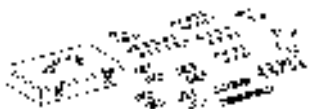
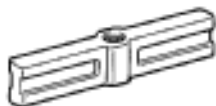
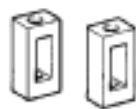






ENGINE MECHANICAL (1MZ-FE)





SST (Special Service Tools)

PP0BR-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	
	09213-54015	Crankshaft Pulley Holding Tool	
	(91651-60855)	Bolt	
	09222-30010	Connecting Rod Bushing Remover & Replacer	
	09223-15030	Oil Seal & Bearing Replacer	Crankshaft rear oil seal
	09248-55040	Valve Clearance Adjust Tool Set	
	(09248-05410)	Valve Lifter Press	
	(09248-05420)	Valve Lifter Stopper	
	09249-63010	Torque Wrench Adaptor	RH camshaft timing pulley

PREPARATION – ENGINE MECHANICAL (1MZ-FE)

	09330-00021 Companion Flange Holding Tool	Crankshaft pulley
	09608-03071 Replacer	Spark plug tube gasket
	09816-30010 Oil Pressure Switch Socket	Knock sensor
	09843-18020 Diagnosis Check Wire	
	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
	09950-70010 Handle Set	
	(09951-07100) Handle 100	Valve guide bushing Crankshaft rear oil seal

	09960-10010 Variable Pin Wrench Set	
	(09962-01000) Variable Pin Wrench Arm Assy	Camshaft timing pulley Camshaft sub-gear
	(09963-01000) Pin 10	Camshaft timing pulley
	(09963-00500) Pin 5	Camshaft sub-gear

RECOMMENDED TOOLS

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

EQUIPMENT


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

SSM (Special Service Materials)

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

EMISSION CONTROL (5S-FE)
SST (Special Service Tools)

PP0JU-04

	09843-18020 Diagnosis Check Wire	
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EQUIPMENT

Torque wrench	
Hose clipper	
Pressure gauge	
Vacuum gauge	

EMISSION CONTROL (1MZ-FE)

EQUIPMENT












PP0BV-03

Hose clipper	
MITYVAC (Hand-held vacuum pump)	
Torque wrench	



SFI (5S-FE)

SST (Special Service Tools)

PP1WB-02

	09268-41047 Injection Measuring Tool Set	
	(09268-41100) Clamp	Except California
	(09268-41110) Adaptor	
	(90405-09015) No.1 Union	
	09268-45014 EFI Fuel Pressure Gauge	
	(09268-41190) Adaptor	
	(90405-06167) I Union	
	09631-22020 Power Steering Hose Nut 14 x 17 mm Wrench Set	Fuel line flare nut
	09816-30010 Oil Pressure Switch Socket	Knock sensor 1
	09842-30070 Wiring "F" EFI Inspection	
	09843-18020 Diagnosis Check Wire	

RECOMMENDED TOOLS

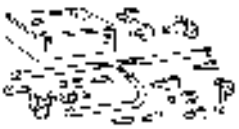


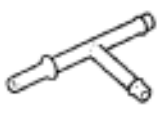





	09082-00040 TOYOTA Electrical Tester.	
	09258-00030 Hose Plug Set .	Plug for vacuum hose, fuel hose etc.

EQUIPMENT





Carburetor cleaner	Throttle body
Graduated cylinder	Injector
OBDII scan tool	
Soft brush	Throttle body
Sound scope	Injector
Torque wrench	
Vacuum gauge	

SFI (1MZ-FE)**SST (Special Service Tools)**

PP1WW-01

	09268-41047 Injection Measuring Tool Set	
	(09268-41100) Clamp	Except California
	(09268-41300) Clamp	For California
	09268-41250 T Joint	
	09268-45012 EFI Fuel Pressure Gauge	
	09631-22020 Power Steering Hose Nut 14 x 17 mm Wrench Set	Fuel line flare nut
	09817-16011 Back-up Light Switch Tool	Knock sensor
	09842-30070 Wiring "F" EFI Inspection	
	09843-18020 Diagnosis Check Wire	

RECOMMENDED TOOLS

	09040-00010 Hexagon Wrench Set .	
	09082-00040 TOYOTA Electrical Tester.	
	09200-00010 Engine Adjust Kit .	
	09258-00030 Hose Plug Set .	Plug for the vacuum hose, fuel hose etc.

EQUIPMENT

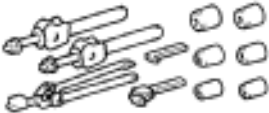

Carburetor cleaner	Throttle body
Graduated cylinder	Injector
OBD II scan tool	
Soft brush	Throttle body
Sound scope	Injector
Torque wrench	
Vacuum gauge	

SSM (Special Service Materials)


08826-00080	Seal Packing Black or equivalent (FIPG)	Intake air control valve
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COOLING (5S-FE)
SST (Special Service Tools)

PP0JZ-05

	09230-01010 Radiator Service Tool Set	
	09231-14010 Punch	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Heater	ECT switch, Thermostat
Radiator cap tester	
Thermometer	ECT switch, Thermostat
Torque wrench	
Vernier calipers	

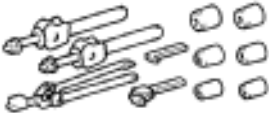

COOLANT

Item		Capacity	Classification
Engine coolant	w/ Oil cooler	6.9 liters (7.3 US qts, 6.1 Imp. qts)	"Toyota Long Life Coolant" or equivalent
	w/o Oil cooler	6.2 liters (6.5 US qts, 5.4 Imp. qts)	


COOLING (1MZ-FE)

SST (Special Service Tools)

PP1WU-01

	09230-01010 Radiator Service Tool Set	
	09231-14010 Punch	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Heater	ECT switch
Radiator cap tester	
Thermometer	ECT switch
Torque wrench	



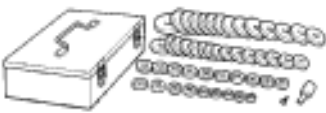


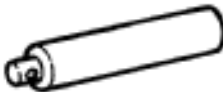
COOLANT

Item	Capacity	Classification
Engine coolant	9.2 liters (9.7 US qts, 8.1 Imp. qts)	"Toyota Long Life Coolant" or equivalent



LUBRICATION (5S-FE)

SST (Special Service Tools)

PP0K3-04

	09032-00100 Oil Pan Seal Cutter	
	09228-06501 Oil Filter Wrench	
	09950-60010 Replacer Set	
	(09951-00350) Replacer 35	Oil pump oil seal
	09950-70010 Handle Set	
	(09951-07100) Handle 100	Oil pump oil seal

RECOMMENDED TOOLS

	09200-00010 Engine Adjust Kit .	
	09905-00013 Snap Ring Pliers .	

EQUIPMENT

Oil pressure gauge	
Torque wrench	

PP0K6-04

Item	Capacity	Classification
Engine oil		API grade SJ, Energy-Conserving or ILSAC multigrade engine oil. SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather
Dry fill		
w/ Oil cooler	4.3 liters (4.5 US qts, 3.8 Imp.qts)	
w/o Oil cooler	4.2 liters (4.4 US qts, 3.7 Imp.qts)	
Drain and refill		
w/ Oil filter change	3.6 liters (3.8 US qts, 3.2 Imp.qts)	
w/o Oil filter change	3.4 liters (3.6 US qts, 3.0 Imp.qts)	





SSM (Special Service Materials)

08826-00080	Seal Packing Black or equivalent (FIPG)	Oil pan
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	Oil pressure switch


LUBRICATION (1MZ-FE)

SST (Special Service Tools)

PP0C4-03

	09032-00100 Oil Pan Seal Cutter	No.2 oil pan
	09223-00010 Cover & Seal Replacer	Crankshaft front oil seal
	09228-07501 Oil Filter Wrench	
	09816-30010 Oil Pressure Switch Socket	

RECOMMENDED TOOLS

	09200-00010 Engine Adjust Kit .	
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EQUIPMENT

Oil pressure gauge	
Precision straight edge	Oil pump
Torque wrench	

LUBRICANT



Item	Capacity	Classification
Engine oil		API grade SJ, Energy-Conserving or ILSAC
Dry fill	5.2 liters (5.5 US qts, 4.6 Imp. qts)	multigrade engine oil.
Drain and refill		SAE 5W-30 is the best choice for your vehicle,
w/ Oil filter change	4.7 liters (5.0 US qts, 4.1 Imp. qts)	for good fuel economy and good starting in cold
w/o Oil filter change	4.5 liters (4.8 US qts, 4.0 Imp. qts)	weather.

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 (5S-FE)
RECOMMENDED TOOLS

PP0K8-04



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

EQUIPMENT

Megger insulation resistance meter	Spark plug
Spark plug cleaner	

IGNITION (1MZ-FE)
RECOMMENDED TOOLS

PP0CF-03

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




EQUIPMENT

Megger insulation resistance meter	Spark plug
Spark plug cleaner	


STARTING(5S-FE)

SST (Special Service Tools)

PP0KA-01

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

RECOMMENDED TOOLS




	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT


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

STARTING (1MZ-FE)**SST (Special Service Tools)**

PP0C9-01

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

RECOMMENDED TOOLS








	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT


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

CHARGING(5S-FE)**SST (Special Service Tools)**

PP0KD-01

	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	Rotor rear bearing
	09820-63010	Alternator Pulley Set Nut Wrench Set	
	09950-60010	Replacer Set	
	(09951-00500)	Replacer 50	Rotor front bearing

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Battery specific gravity gauge	Except maintenance free battery
Belt tension gauge	
Torque wrench	
Vernier calipers	Rotor (Slip ring), Brush


CHARGING (1MZ-FE)

SST (Special Service Tools)

PP0CC-01

	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	Rotor rear bearing
	09820-63010	Alternator Pulley Set Nut Wrench Set	
	09950-60010	Replacer Set	
	(09951-00500)	Replacer 50	Rotor front bearing

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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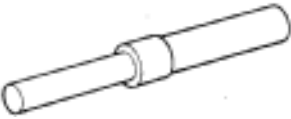
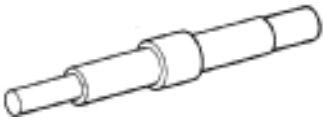

EQUIPMENT

Ammeter(A)	
Battery specific gravity gauge	Except maintenance free battery
Belt tension gauge	
Torque wrench	
Vernier calipers	Rotor (Slip ring), Brush



CLUTCH

SST (Special Service Tools)

PP0HC-01

	09023-00100 Union Nut Wrench 10 mm	Clutch line
	09301-00210 Clutch Guide Tool	5S-FE Engine
	09301-00220 Clutch Guide Tool	1MZ-FE Engine
	09333-00013 Clutch Diaphragm Spring Aligner	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
	09905-00013 Snap Ring Pliers .	













EQUIPMENT









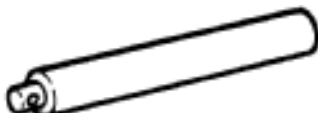
Calipers	
Dial indicator	
Torque wrench	

MANUAL TRANSAXLE (E153)








SST (Special Service Tools)

PP0H7-03

	09223-15020 Oil Seal & Bearing Replacer	Differential case oil seal
	09308-00010 Oil Seal Puller	Output shaft front bearing outer race
	09316-20011 Transfer Bearing Replacer	Differential case tapered roller bearing
	09316-60011 Transmission & Transfer Bearing Replacer	
	(09316-00011) Replacer Pipe	
	(09316-00021) Replacer "A"	
	(09316-00041) Replacer "C"	1st gear No.1 hub sleeve Differential case tapered roller bearing outer race
	(09316-00071) Replacer "F"	Output shaft front bearing
	09506-30012 Differential Drive Pinion Rear Bearing Cone Replacer	Output shaft rear bearing
	09506-35010 Differential Drive Pinion Rear Bearing Replacer	No.2 hub sleeve 3rd gear Input shaft rear bearing
	09608-00081 Differential Side Bearing Cone Replacer	Input shaft oil seal
	09612-65014 Steering Worm Bearing Puller	Input shaft bearing Differential case tapered roller bearing outer race

	09950-00020 Bearing Remover	
	09950-00030 Bearing Remover Attachment	Output shaft front bearing
	09950-30010 Puller A Set	5th driven gear No.3 clutch hub
	09950-40011 Puller B Set	Differential case tapered roller bearing
	09950-60010 Replacer Set	
	(09951-00310) Replacer 31	Control shaft cover oil seal Installation
	(09951-00580) Replacer 58	Input shaft bearing
	09950-70010 Handle Set	
	(09951-07150) Handle 150	

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 kgf-cm)	Differential preload
	09031-00030 Pin Punch .	
	09040-00010 Hexagon Wrench Set .	
	09042-00040 Torx Socket T50 .	
	09042-00050 Torx Socket T45 .	
	09090-04010 Engine Sling Device .	
	09905-00012 Snap Ring No.1 Expander .	

EQUIPMENT

Dial indicator with magnetic base	
Feeler gauge	
Micrometer	
Torque wrench	
Precision straight edge	
Magnetic finger	



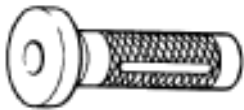





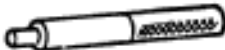



LUBRICANT

Item	Capacity	Classification
Manual transaxle oil (w/ Differential oil)	4.2 liters (4.4 US qts, 3.7 Imp. qts)	API GL-4 or GL-5 SAE 75W-90





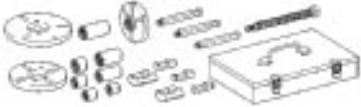




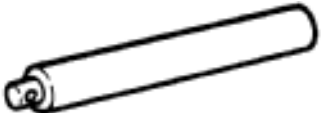
MANUAL TRANSAXLE (S51)

SST (Special Service Tools)





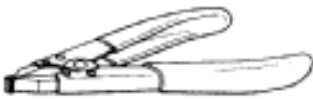
PP0H2-04

	09308-00010 Oil Seal Puller	Input shaft front bearing Output shaft front bearing
	09309-12020 5th Driven Gear Replacer	5th driven gear
	09310-35010 Countershaft Bearing Replacer	Input shaft front bearing Output shaft front bearing
	09316-60011 Transmission & Transfer Bearing Replacer	
	(09316-00011) Replacer Pipe	3rd driven gear Differential side bearing
	(09316-00041) Replacer "C"	Output shaft thrust washer
	09350-32014 TOYOTA Automatic Transmission Tool Set	
	(09351-32120) Overdrive Bearing Replacer	Differential side bearing
	(09351-32130) Handle	Differential side bearing retainer oil seal Differential case oil seal (Transaxle case side)
	(09351-32150) Oil Seal Replacer	Differential side bearing retainer oil seal Differential case oil seal (Transaxle case side)
	09564-32011 Differential Preload Adaptor	
	09608-00071 Drive Pinion Rear Bearing Cone Replacer	Input shaft rear bearing

PREPARATION – MANUAL TRANSAXLE (S51)

	09608-00081 Differential Side Bearing Cone Replacer	Input shaft front oil seal
	09612-22011 Tilt Handle Bearing Replacer	Output shaft rear bearing No.3 clutch hub
	09950-00020 Bearing Remover	
	09950-00030 Bearing Remover Attachment	
	09950-30010 Puller A Set	No.3 clutch hub
	09950-40011 Puller B Set	5th driven gear
	09950-60020 Replacer Set No.2	Differential side bearing retainer oil seal Differential side bearing outer race
	(09951-00680) Replacer 68	
	09950-70010 Handle Set	
	(09951-07150) Handle 150	

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 kgf-cm)	Differential preload
	09031-00030 Pin Punch .	
	09040-00010 Hexagon Wrench Set .	
	09090-04010 Engine Sling Device .	
	09905-00012 Snap Ring No.1 Expander .	

EQUIPMENT

Dial indicator	
Torque wrench	
Feeler gauge	
Magnetic finger	
Micrometer	





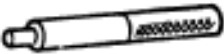




LUBRICANT

Item	Capacity	Classification
Manual transaxle oil (w/ Differential oil)	2.6 liters (2.7 US qts, 2.3 Imp. qts)	API GL-4 or GL-5 SAE 75W-90



AUTOMATIC TRANSAXLE (A140E)

SST (Special Service Tools)

PP0KG-01

	09308-00010 Oil Seal Puller	
	09350-32014 TOYOTA Automatic Transmission Tool Set	
	(09351-32010) One-way Clutch Test Tool	
	(09351-32020) Stator Stopper	
	(09351-32130) Handle	
	(09351-32150) Oil Seal Replacer	
	09992-00095 Automatic Transmission Oil Pressure Gauge Set	
	(09992-00231) Adaptor C	
	(09992-00271) Gauge Assy	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
	09090-04010 Engine Sling Device .	

EQUIPMENT

OBD II scan tool	
Torque wrench	
Hexagon wrench	
Dial indicator with magnetic base	Drive plate
Vernier calipers	Torque converter clutch
Straight edge	Torque converter clutch






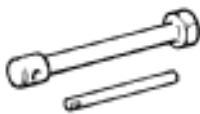





LUBRICANT

Item	Capacity	Classification
Automatic transaxle		
Dry fill	5.6 liters (5.9 US qts, 4.9 Imp.qts)	ATF D-II or DEXRON®III (DEXRON®II)
Drain and refill	2.5 liters (2.6 US qts, 2.2 Imp.qts)	
Differential oil	1.6 liters (1.7 US qts, 1.4 Imp.qts)	ATF D-II or DEXRON®III (DEXRON®II)



AUTOMATIC TRANSAXLE (A541E)

SST (Special Service Tools)

PP0M1-01

	09223-15020 Oil Seal & Bearing Replacer	
	09308-00010 Oil Seal Puller	Side gear shaft oil seal
	09316-60011 Transmission & Transfer Bearing Replacer	RH side bearing
	(09316-00011) Replacer Pipe	RH side gear shaft oil seal
	09350-32014 TOYOTA Automatic Transmission Tool Set	
	(09351-32010) One-way Clutch Test Tool	
	(09351-32020) Stator Stopper	
	(09351-32130) Handle	
	09992-00095 Automatic Transmission Oil Pressure Gauge Set	Line pressure
	(09992-00231) Adaptor C	
	(09992-00271) Gauge Assy	

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
	09090-04010 Engine Sling Device .	

EQUIPMENT

Straight edge	Torque converter clutch
Vernier calipers	Torque converter clutch
Dial indicator or dial indicator with magnetic base	Drive plate
Hexagon Wrench (10 mm)	
Torque wrench	
OBD II scan tool	




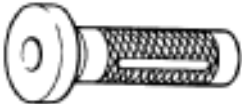








LUBRICANT






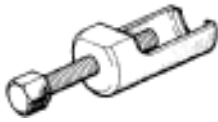







Item	Capacity	Classification
Automatic transaxle fluid (w/o Differential oil)		ATF D-II or DEXRON®III (DEXRON®II)
Dry fill	8.0 liters (8.5 US qts, 7.0 Imp. qts)	
Drain and refill	3.9 liters (4.1 US qts, 3.4 Imp. qts)	

SUSPENSION AND AXLE



SST (Special Service Tools)

PP1WM-01





	09223-56010	Crankshaft Rear Oil Seal Replacer	Front drive shaft
	09240-00020	Wire Gauge Set	Front drive shaft
	09309-36010	Transmission Rear Bearing Replacer	Front drive shaft
	09310-35010	Countershaft Bearing Replacer	Front axle hub
	09316-20011	Transfer Bearing Replacer	Front drive shaft
	09316-60011	Transmission & Transfer Bearing Replacer	Front axle hub Front suspension
	(09316-00011)	Replacer Pipe	
	(09316-00041)	Replacer "C"	
	09506-35010	Differential Drive Pinion Rear Bearing Replacer	Front drive shaft
	09520-00031	Rear Axle Shaft Puller	Front axle hub
	09521-24010	Drive Shaft Boot Clamping Tool	Front drive shaft
	09527-17011	Rear Axle Shaft Bearing Remover	Front axle hub

	09555-55010 Differential Drive Pinion Bearing Replacer	Front drive shaft
	09608-16042 Front Hub Bearing Adjusting Tool	Front drive shaft
	(09608-02021) Bolt & Nut	
	(09608-02041) Retainer	
	09608-32010 Steering Knuckle Oil Seal Replacer	Front axle hub Front suspension
	09610-20012 Pitman Arm Puller	Front axle hub
	09628-10011 Ball Joint Puller	Front axle hub Rear axle hub
	09628-62011 Ball Joint Puller	Front axle hub Front suspension
	09727-30021 Coil Spring Compressor	Front suspension Rear suspension
	09729-22031 Front Spring Upper Seat Holder	Front suspension
	09950-00020 Bearing Remover	Front axle hub Front drive shaft
	09950-60010 Replacer Set	Front axle hub
	(09951-00400) Replacer 40	

PREPARATION – SUSPENSION AND AXLE

	09950-70010 Handle Set	Front axle hub
	(09951-07100) Handle 100	

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 kgf-cm)	
	09042-00010 Torx Socket T30 .	
	09905-00012 Snap Ring No.1 Expander .	
	09905-00013 Snap Ring Pliers .	

EQUIPMENT

PP08X-03

Dial indicator	
Drill	
Torque wrench	













LUBRICANT



Item	Capacity	Application
5S-FE:		
Outboard joint grease Color=Black	140 – 160 g (5.5 – 6.3 oz.)	
Inboard joint grease Color=Yellow ochre	185 – 215 g (7.3 – 8.5 oz.)	
1MZ-FE:		
Outboard joint grease Color=Black	105 – 125 g (3.7 – 4.4 oz.)	
Inboard joint grease Color=Gray		
Joint side	142.5 – 157.5 g (5.0 – 5.6 oz.)	
Boot side	52.5 – 57.5 g (2.1 – 2.3 oz.)	

BRAKE




SST (Special Service Tools)

PP017-01

	09023-00100 Union Nut Wrench 10 mm	
	09703-30010 Brake Shoe Return Spring Tool	
	09709-29018 LSPV Gauge Set	
	09718-00010 Shoe Hold Down Spring Driver	
	09737-00010 Brake Booster Push Rod Gauge	
	09751-36011 Brake Line Union Nut 10 x 12 mm Wrench	
	09843-18020 Diagnosis Check Wire	
	09990-00150 ABS Actuator Checker and Sub-harness	DENSO type ABS, ABS & TRAC type
	09990-00163 ABS Actuator Checker Sheet "A"	ABS & TRAC type
	09990-00250 ABS Actuator Checker Sub-harness "G"	DENSO type ABS, ABS & TRAC type
	09990-00300 ABS Actuator Checker Sub-harness "I"	DENSO type ABS
	09990-00360 ABS Actuator Checker Sub-harness "L"	DENSO type ABS, ABS & TRAC type

	09990-00430 ABS Actuator Checker Sheet "P"	DENSO type ABS
	09990-00450 ABS Actuator Checker Sub-harness "P"	ABS & TRAC type

RECOMMENDED TOOLS

	09042-00030 Torx Socket T20 .	BOSCH type ABS
	09082-00040 TOYOTA Electrical Tester.	
	09905-00013 Snap Ring Pliers .	

EQUIPMENT

Torque wrench	
Micrometer	Brake disc
Dial indicator	Brake disc
Brake drum gauge	Brake drum and disc
Vernier calipers	Brake drum













LUBRICANT

Item	Capacity	Classification
Brake fluid	–	SAE J1703 or FMVSS No.116 DOT3








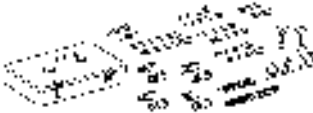
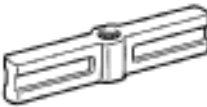




STEERING














SST (Special Service Tools)

PP0DB-03







	09249-63010 Torque Wrench Adaptor	PS vane pump
	09521-24010 Drive Shaft Boot Clamping Tool	PS gear
	09527-20011 Rear Axle Shaft Bearing Remover	PS gear
	09612-00012 Rack & Pinion Steering Rack Housing Stand	PS gear
	09612-22011 Tilt Handle Bearing Replacer	PS gear
	09612-24014 Steering Gear Housing Overhaul Tool Set	
	(09613-22011) Steering Rack Shaft Bushing Puller	PS gear
	09616-00010 Steering Worm Bearing Adjusting Socket	PS gear
	09631-10021 Rack Stopper Wrench	PS gear
	09631-12071 Steering Rack Oil Seal Test Tool	PS gear
	09631-20081 Seal Ring Tool	PS gear
	09631-22020 Power Steering Hose Nut 14 x 17 mm Wrench Set	PS vane pump PS gear

PREPARATION – STEERING






	09631-33010 Steering Rack Cover "I"	PS gear
	09633-00020 Power Steering Hose Nut Wrench	PS gear
	09640-10010 Power Steering Pressure Gauge Set	
	(09641-01010) Gauge Assy	Power steering fluid
	(09641-01030) Attachment B	Power steering fluid
	(09641-01060) Attachment E	Power steering fluid
	09922-10010 Variable Open Wrench	PS gear
	09950-50012 Puller C Set	
	(09951-05010) Hanger 150	Tilt steering column
	(09952-05010) Slide Arm	Tilt steering column
	(09953-05020) Center Bolt 150	Tilt steering column
	(09954-05020) Claw No.2	Tilt steering column
	09950-60010 Replacer Set	

	(09951-00180) Replacer 18	PS gear
	(09951-00240) Replacer 24	PS gear
	(09951-00250) Replacer 25	PS gear
	(09951-00260) Replacer 26	PS gear
	(09951-00290) Replacer 29	PS gear
	(09951-00310) Replacer 31	PS gear
	(09951-00320) Replacer 32	PS gear
	(09951-00330) Replacer 33	PS vane pump
	(09951-00340) Replacer 34	PS gear
	(09951-00400) Replacer 40	PS gear
	(09951-00430) Replacer 43	PS gear
	(09952-06010) Adapter	PS gear
	09950-70010 Handle Set	

PREPARATION – STEERING

	(09951-07100) Handle 100	PS vane pump
	(09951-07200) Handle 200	PS gear
	(09951-07360) Handle 360	PS gear
	09960-10010 Variable Pin Wrench Set	
	(09962-01000) Variable Pin Wrench Arm Assy	PS vane pump
	(09963-01000) Pin 10	PS vane pump

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 <kgfcm>) .	PS vane pump PS gear
	09042-00010 Torx Socket T30 .	Tilt steering column
	09904-00010 Expander Set .	
	09905-00012 Snap Ring No.1 Expander .	
	09905-00013 Snap Ring Pliers .	

EQUIPMENT

Belt tension gauge	On-vehicle inspection
Caliper gauge	PS vane pump
Calipers	PS vane pump
Dial indicator	PS gear
Feeler gauge	PS vane pump
Micrometer	PS vane pump
Torque wrench	

LUBRICANT

Item	Capacity	Classification
Power steering fluid Total	0.8 liters (0.8 US qts, 0.7 Imp.qts)	ATF DEXRON® II or III





SSM (Special Service Materials)

08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	PS gear
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SUPPLEMENTAL RESTRAINT SYSTEM

SST (Special Service Tools)

PP0MQ-01

	09082-00700 SRS Airbag Deployment Tool	
	09082-00750 Airbag Deployment Wire Sub-harness No.3	
	09082-00760 Airbag Deployment Wire Sub-harness No.4	
	09843-18020 Diagnosis Check Wire	

RECOMMENDED TOOLS

	09042-00020 Torx Socket T40 .	Airbag sensor assembly
	09082-00050 TOYOTA Electrical Tester Set.	
	09082-00040 TOYOTA Electrical Tester.	
	(09083-00150) Test Lead Set	Seat belt pretensioner connector


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.: 360mm (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)

PP0KY-01

	09843-18020 Diagnosis Check Wire	
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RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
	09041-00030 Torx Driver T30 .	For removing and installing steering wheel pad
	09042-00010 Torx Socket T30 .	For removing and installing steering wheel pad



EQUIPMENT

Voltmeter	
Ammeter	
Ohmmeter	
Test lead	
Syphon	Brake fluid level warning switch
Bulb (3.4 W)	Fuel sender gauge, Seat belt warning relay
Bulb (21 W)	Turn signal flasher relay
Dry cell battery	Fuel sender gauge
Torque wrench	
Masking tape	Rear window defogger wire
Tin foil	Rear window defogger wire

BODY

SST (Special Service Tools)

PP0MU-01

	09804-24010 Luggage Compartment Door Torsion Bar Tool	
	09812-00020 Door Hinge Set Bolt Wrench	

EQUIPMENT

Clip remover	
Torque wrench	
Drill	
Drill bit, diam 3.2 mm (0.126 in.)	
Hand riveter	
Tape	To avoid surface damage
Adhesive tape	To avoid surface damage
Adhesive	
Cleaner	
Shop rag	Regulator handle
Water pump pliers	Window regulator
Knife	Moulding
Heat light	Moulding
Piano wire	Windshield
Rope (no projections, difficult to break)	Seat belt pretensioner disposal
Tire Width: 185 mm (7.28 in.) Inner diam: 360 mm (14.17 in.)	Seatbelt pretensioner disposal
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diam 360 mm (14.17 in.)	Seat belt pretensioner disposal
Vinyl bag	Seat belt pretensioner disposal













LUBRICANT





Item	Capacity	Classification
MP grease	–	–

AIR CONDITIONING



SST (Special Service Tools)

PP1XJ-01

	07110-58060 Air Conditioner Service Tool Set	
	(07117-58060) Refrigerant Drain Service Valve	
	(07117-58070) T-Joint	
	(07117-58080) Quick Disconnect Adapter	Discharge (diam. 16 mm)
	(07117-58090) Quick Disconnect Adapter	Suction (diam. 13 mm)
	(07117-78050) Refrigerant Charging Gauge	
	(07117-88060) Refrigerant Charging Hose	Discharge (Red)
	(07117-88070) Refrigerant Charging Hose	Suction (Blue)
	(07117-88080) Refrigerant Charging Hose	Utility (Green)
	07112-66040 Magnetic Clutch Remover	
	07112-76060 Magnetic Clutch Stopper	
	07114-84010 Snap Ring Pliers	

	07114-84020 Snap Ring Pliers	
	07116-38360 Gas Leak Detector Assembly	
	09870-00015 A/C Quick Joint Puller No.1	Suction tube
	09870-00025 A/C Quick Joint Puller No.2	Liquid tube

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
	09216-00021 Belt Tension Gauge .	

EQUIPMENT

Voltmeter	
Ammeter	
Ohmmeter	
Test lead	
Thermometer	Thermistor, ECT switch
Torque wrench	
Dial indicator	Magnetic clutch
Plastic hammer	Magnetic clutch


LUBRICANT

Item	Capacity	Classification
Compressor oil	–	ND-OIL 8 or equivalent
When replacing receiver	20 cc (0.71 fl.oz.)	
When replacing condenser	40 – 50 cc (1.4 – 1.7 fl.oz.)	
When replacing evaporator	40 – 50 cc (1.4 – 1.7 fl.oz.)	
When replacing compressor	120 cc (4.1 fl.oz.)	

ENGINE MECHANICAL

RECOMMENDED TOOLS

PP24T-01

	09200-00010 Engine Adjust Kit .	
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EQUIPMENT

CO/HC meter	
Compression gauge	
Micrometer	
OBDII scan tool	
Torque wrench	
Vernier calipers	

SFI

RECOMMENDED TOOLS

PP24U-01

	09082-00040 TOYOTA Electrical Tester.	
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EQUIPMENT

Sound scope	Injector
Torque wrench	

IGNITION

RECOMMENDED TOOLS

PP24V-01

	09200-00010 Engine Adjust Kit .	
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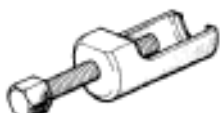





EQUIPMENT

Megger insulation resistance meter	Spark plug
Spark plug cleaner	


SUSPENSION AND AXLE

SST (Special Service Tools)

PP24O-01

	09608-16042 Front Hub Bearing Adjusting Tool	Front drive shaft
	(09608-02021) Bolt & Nut	
	(09608-02041) Retainer	
	09610-20012 Pitman Arm Puller	Front drive shaft
	09950-00020 Bearing Remover	Front drive shaft
	09309-36010 Transmission Rear Bearing Replacer	
	09316-20011 Transfer Bearing Replacer	
	09506-35010 Differential Drive Pinion Rear Bearing Replacer	
	09521-24010 Drive Shaft Boot Clamping Tool	

RECOMMENDED TOOLS

	09025-00010 Torque Wrench (30 kgf-cm)	
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EQUIPMENT

PP24Q-01


Digital indicator with magnetic base	
Torque wrench	

LUBRICANT


Item	Capacity	Application
Outboard joint grease Color=Black	100 – 120 g (3.5 – 4.2 oz.)	
Inboard joint grease Color=Yellow ocher	125 – 155 g (4.4 – 5.5 oz.)	

BODY ELECTRICAL
SST (Special Service Tools)

PP0KY-02

	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	
Bulb (3.4 W)	Fuel sender gauge, Engine coolant temperature sender gauge
Torque wrench	

BODY EQUIPMENT

PP24Z-01

Clip remover	
Torque wrench	
Hog ring pliers	
Tape	To avoid surface damage
Adhesive tape	To avoid surface damage
Adhesive	
Cleaner	
Shop rag	Regulator handle
Knife	Moulding
Piano wire	Back window glass
Sealer gun	
Brush	
Putty spatula	
Wooden block or similar object	For tying both piano wire ends

LUBRICANT

PP250-01

Item	Capacity	Classification
MP grease	–	–

SSM (Special Service Materials)

08833-00030	Three cement black or equivalent	
08850-00801	Windshield Glass Adhesive Set or equivalent	