MAINTENANCE EQUIPMENT

DOES_01

Mirror	Brake hose
Torque wrench	

ENGINE MECHANICAL (5S-FE) SST (Special Service Tools)

POJQ-04

	09201–10000	Valve Guide Bushing Remover & Replacer Set	
	(09201–01060)	Valve Guide Bushing Remover & Replacer 6	
O WOLLDAY	09201–41020	Valve Stem Oil Seal Replacer	
	09202–70020	Valve Spring Compressor	
	(09202-00010)	Attachment	
	09213-54015	Crankshaft Pulley Holding Tool	
(D)	(91651–60855)	Bolt	Crankshaft pulley (Type A)
	09222-30010	Connecting Rod Bushing Remover & Replacer	
9	09223-15030	Oil Seal & Bearing Replacer	Crankshaft rear oil seal
	09223-46011	Crankshaft Front Oil Seal Replacer	Camshaft oil seal
8	09224–74010	Engine Balancer Backlash Adjusting Tool	
	09226–10010	Crankshaft Front & Rear Bearing Replacer	Crankshaft front oil seal

			T
	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
1100 mm	09612–24014	Steering Gear Housing Overhaul Tool Set	
	(09617–24011)	Steering Rack Wrench	Fuel inlet hose
	09843–18020	Diagnosis Check Wire	
The state of the s	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

PREPARATION - ENGINE MECHANICAL (5S-FE)

a Ten	(09954–05010)	Claw No.1	Crankshaft pulley (Type B) Crankshaft timing pulley
<u>aran</u>	(09954–05020)	Claw No.2	Crankshaft pulley (Type A)
0011	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
EP EP	(09963–00500)	Pin 5	Oil pump pulley Camshaft sub–gear gear
	(09963-01000)	Pin 10	Camshaft timing pulley

RECOMMENDED TOOLS

PP0JR-04

Z.	09090-04020	Engine Sling Device	For suspending engine
	09200-00010	Engine Adjust Kit .	
S S S S	09258-00030	Hose Plug Set .	Plug for vacuum hose, fuel hose etc.
THE THE	09904-00010	Expander Set .	

PP0JS-04

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)

PP1WA-02

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

hing Remover & Re
eal Replacer
mpressor
y Holding Tool
Bushing Remover
g Replacer Crankshaft rear oil seal
Adjust Tool Set
5
per
Adaptor RH camshaft timing pulley

	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
(C)	(09954–05020)	Claw No.2	Crankshaft pulley
0000	09950–70010	Handle Set	
	(09951–07100)	Handle 100	Valve guide bushing Crankshaft rear oil seal
<u> </u>	· 		<u> </u>

PREPARATION – ENGINE MECHANICAL (1MZ–FE)

		09960–10010	Variable Pin Wrench Set	
6/	D	(09962–01000)	Variable Pin Wrench Arm Assy	Camshaft timing pulley Camshaft sub-gear
		(09963–01000)	Pin 10	Camshaft timing pulley
£ 100 m	ED)	(09963–00500)	Pin 5	Camshaft sub-gear

RECOMMENDED TOOLS

PP0BS-03

The state of the s	09040-00010	Hexagon Wrench Set .	
7	09090-04020	Engine Sling Device	For suspending engine
	09200-00010	Engine Adjust Kit .	
S S S S	09258-00030	Hose Plug Set .	Plug for the vacuum hose, fuel hose etc.
NAME OF STREET	09904-00010	Expander Set .	

PP0BT-03

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)

PP1WT-01

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-0

	09843–18020 Diagnosis Check Wire	
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EQUIPMENT

PP0JV-04

Torque wrench	
Hose clipper	
Pressure gauge	
Vacuum gauge	

EMISSION CONTROL (1MZ-FE) EQUIPMENT

PPORV_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	
ETC.	(09268–41100)	Clamp	Except California
000	(09268–41110)	Adaptor	
	(90405–09015)	No.1 Union	
	09268–45014	EFI Fuel Pressure Gauge	
	(09268–41190)	Adaptor	
9	(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	

PP0JX-04

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester.	
S 8 8 8	09258-00030	Hose Plug Set .	Plug for vacuum hose, fuel hose etc.

EQUIPMENT

PP0JY-04

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
P	(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
S -	09842–30070	Wiring "F" EFI Inspection	
	09843–18020	Diagnosis Check Wire	

RECOMMENDED TOOLS

PP1WX-01

The state of the s	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

PP1WY-01

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)

PP1WZ-01

08826-00080	Seal Packing Black or equivalent (FIPG)	Intake air control valve

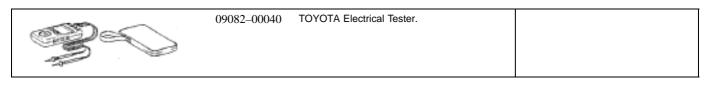
COOLING (5S-FE) SST (Special Service Tools)

PP0JZ-05

00	09230-01010	Radiator Service Tool Set	
	09231–14010	Punch	

RECOMMENDED TOOLS

PP0K0-03



EQUIPMENT

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

COOLANT

PP0K2-03

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

COOLING (1MZ-FE)

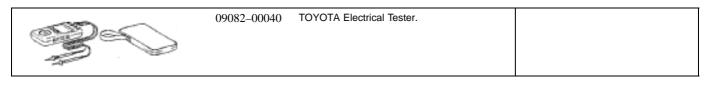
SST (Special Service Tools)

PP1WU-01

000	09230-01010	Radiator Service Tool Set	
	09231–14010	Punch	

RECOMMENDED TOOLS

PP0C1-03



EQUIPMENT

Heater	ECT switch
Radiator cap tester	
Thermometer	ECT switch
Torque wrench	

COOLANT

PP0C3-04

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

LUBRICATION (5S-FE) SST (Special Service Tools)

PP0K3-0-

	09032-00100	Oil Pan Seal Cutter	
	09228-06501	Oil Filter Wrench	
Separation of the separation o	09950–60010	Replacer Set	
9	(09951–00350)	Replacer 35	Oil pump oil seal
0011	09950–70010	Handle Set	
	(09951–07100)	Handle 100	Oil pump oil seal

RECOMMENDED TOOLS

PP0K4-04

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

EQUIPMENT

Oil pressure gauge	
Torque wrench	

LUBRICANT

PP0K6-04

	Item	Capacity	Classification
Engine oil	w/ Oil seeden	4.2 litera (4.5 HC ata . 2.0 lasa ata)	API grade SJ, Energy–Conserving or ILSAC mul-
Dry fill	w/ Oil cooler w/o Oil cooler	4.3 liters (4.5 US qts, 3.8 lmp.qts) 4.2 liters (4.4 US qts, 3.7 lmp.qts)	tigrade engine oil. SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good
Drain and refill	W/0 011 000101	1.2 more (1.1 00 q.c, o.1 mp.q.c)	starting in cold weather
	w/ Oil filter change	3.6 liters (3.8 US qts, 3.2 lmp.qts)	
	w/o Oil filter change	3.4 liters (3.6 US qts, 3.0 lmp.qts)	

PP1WC-01

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)

PP0C4-0

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	

PP0C5-03



EQUIPMENT PPOC6-02

Oil pressure gauge	
Precision straight edge	Oil pump
Torque wrench	

LUBRICANT

PP0C7-04

Item	Capacity	Classification
Engine oil		API grade SJ, Energy–Conserving or ILSAC
Dry fill	5.2 liters (5.5 US qts, 4.6 lmp. 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 lmp. qts)	for good fuel economy and good starting in cold
w/o Oil filter change	4.5 liters (4.8 US qts, 4.0 lmp. qts)	weather.

SSM (Special Service Materials)

PP1WV-01

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

PP0K8-0-

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

PP0K9-04

EQUIPMENT

Megger insulation resistance meter	Spark plug
Spark plug cleaner	

IGNITION (1MZ-FE) RECOMMENDED TOOLS

PP0CF-0

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

EQUIPMENT

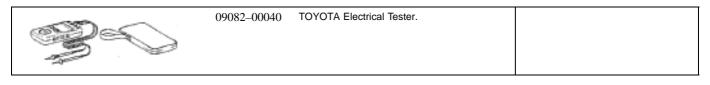
Megger insulation resistance meter	Spark plug
Spark plug cleaner	

STARTING(5S-FE) SST (Special Service Tools)

PP0KA-0

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

PP0KB-01



EQUIPMENT

PP0KC-01

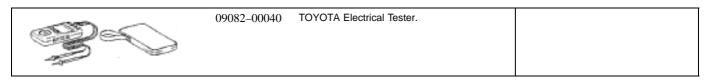
Dial indicator	Commutator
Magnetic finger	Steel ball
Press	Magnetic switch terminal kit part
Pull scale	Brush spring
Sandpaper	Commutator
Torque wrench	
V-block	Commutator
Vernier calipers	Commutator, Brush

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

P0C9-01

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

PP0CA-01



EQUIPMENT

PP0CB-02

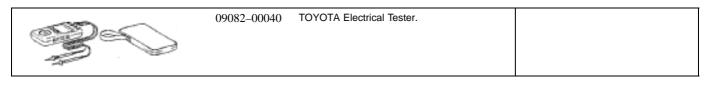
Dial indicator	Commutator
Magnetic finger	Steel ball
Press	Magnetic switch terminal kit
Pull scale	Brush spring
Sandpaper	Commutator
Torque wrench	
V-block	Commutator
Vernier calipers	Commutator, Brush

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

PP0KD-01

0	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	
0	09820-00030	Alternator Rear Bearing Replacer	Rotor rear bearing
	09820-63010	Alternator Pulley Set Nut Wrench Set	
	09950-60010	Replacer Set	
9	(09951–00500)	Replacer 50	Rotor front bearing

PP0KE-01



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

0	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	
0	09820-00030	Alternator Rear Bearing Replacer	Rotor rear bearing
	09820-63010	Alternator Pulley Set Nut Wrench Set	
Sanorano la company de la comp	09950-60010	Replacer Set	
9	(09951–00500)	Replacer 50	Rotor front bearing

PP0CD-01

	09082-00040	TOYOTA Electrical Tester.	
A STATE OF THE STA			

EQUIPMENT

PP0CE-02

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

CLUTCHSST (Special Service Tools)

PP0HC-0

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	

PP0HD-01

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

EQUIPMENT

Calipers	
Dial indicator	
Torque wrench	

MANUAL TRANSAXLE (E153)

PP0H7-03

SST (Special Service Tools)

9	09223-15020	Oil Seal & Bearing Replacer	Differential case oil seal
	09308-00010	Oil Seal Puller	Output shaft front bearing outer race
0	09316–20011	Transfer Bearing Replacer	Differential case tapered roller bearing
	09316–60011	Transmission & Transfer Bearing Replacer	
	(09316–00011)	Replacer Pipe	
	(09316–00021)	Replacer "A"	
9	(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

PREPARATION – MANUAL TRANSAXLE (E153)

	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
Separation (09950–60010	Replacer Set	
9	(09951–00310)	Replacer 31	Control shaft cover oil seal Installation
•	(09951–00580)	Replacer 58	Input shaft bearing
0011	09950–70010	Handle Set	
	(09951–07150)	Handle 150	

PP0H8-01

0	09025-00010	Torque Wrench (30 kgf-cm)	Differential preload
	09031-00030	Pin Punch .	
The state of the s	09040-00010	Hexagon Wrench Set .	
	09042-00040	Torx Socket T50 .	
	09042-00050	Torx Socket T45 .	
F.	09090-04010	Engine Sling Device .	
	09905-00012	Snap Ring No.1 Expander .	

EQUIPMENT PPOH9-01

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

LUBRICANT

PP0HA-01

Item	Capacity	Classification	
Manual transaxle oil (w/ Differential oil)	4.2 liters (4.4 US qts, 3.7 lmp. 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 be Output shaft fron	bearing
09310–35010 Countershaft Bearing Replacer Input shaft front be	
09316–60011 Transmission & Transfer Bearing Replacer	
(09316–00011) Replacer Pipe 3rd driven gear Differential side be	aring
(09316–00041) Replacer "C" Output shaft thrust	washer
09350–32014 TOYOTA Automatic Transmission Tool Set	
(09351–32120) Overdrive Bearing Replacer Differential side bearing Replacer	aring
(09351–32130) Handle Differential side beretainer oil seal Differential case oil (Transaxle case side)	l seal
(09351–32150) Oil Seal Replacer Differential side beretainer oil seal Differential case oil (Transaxle case sid	l seal
09564–32011 Differential Preload Adaptor	
09608–00071 Drive Pinion Rear Bearing Cone Replacer	aring

	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	
Ħ.	09950-00030	Bearing Remover Attachment	
	09950-30010	Puller A Set	No.3 clutch hub
	09950–40011	Puller B Set	5th driven gear
\$ 10000 00000 00000,	09950–60020	Replacer Set No.2	Differential side bearing retainer oil seal Differential side bearing outer race
	(09951–00680)	Replacer 68	
0011	09950–70010	Handle Set	
a	(09951–07150)	Handle 150	

PP0H3-01

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

PP0H4-01

EQUIPMENT

Dial indicator
Torque wrench
Feeler gauge
Magnetic finger
Micrometer

PREPARATION - MANUAL TRANSAXLE (S51)

LUBRICANT

PP0H5-01

Item	Capacity	Classification
Manual transaxle oil	2.6 litera (2.7 LIS etc. 2.2 lmn, etc.)	API GL–4 or GL–5
(w/ Differential oil)	2.6 liters (2.7 US qts, 2.3 lmp. qts)	SAE 75W-90

AUTOMATIC TRANSAXLE (A140E)SST (Special Service Tools)

PP0KG-0

	OTA Automatic Transmission
	OTA Automatic Transmission
09350–32014 TOV Tool	
(09351–32010) One	-way Clutch Test Tool
(09351–32020) Stat	or Stopper
(09351–32130) Han	dle
(09351–32150) Oil S	Seal Replacer
	omatic Transmission Oil ssure Gauge Set
(09992–00231) Ada	ptor C
(09992–00271) Gau	ge Assy

PP0KH-01

30	09082-00040	TOYOTA Electrical Tester.	
T.	09090-04010	Engine Sling Device .	

EQUIPMENT

PP0KI-01

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

PREPARATION - AUTOMATIC TRANSAXLE (A140E)

PP0KJ-01

LUBRICANT

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

9	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	
(a)	(09351–32130)	Handle	
	09992-00095	Automatic Transmission Oil Pressure Gauge Set	Line pressure
	(09992–00231)	Adaptor C	
	(09992–00271)	Gauge Assy	

RECOMMENDED TOOLS

PP0M2-01

300	09082-00040	TOYOTA Electrical Tester.	
F.	09090-04010	Engine Sling Device .	

EQUIPMENT

PP0M3-01

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	

PREPARATION - AUTOMATIC TRANSAXLE (A541E)

PP0M4-01

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)	ATT D-II OI DEARON III (DEARON II)
Drain and refill	3.9 liters (4.1 US ats. 3.4 Imp. ats)	

SUSPENSION AND AXLESST (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

			1
	09555–55010	Differential Drive Pinion Bearing Replacer	Front drive shaft
	09608–16042	Front Hub Bearing Adjusting Tool	Front drive shaft
® 0 ===================================	(09608–02021)	Bolt & Nut	
0	(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
Sansanasas (09950–60010	Replacer Set	Front axle hub
9	(09951–00400)	Replacer 40	

PREPARATION - SUSPENSION AND AXLE

0011	09950–70010	Handle Set	Front axle hub
	(09951–07100)	Handle 100	

RECOMMENDED TOOLS

PP08W-01

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

PP08X-03

EQUIPMENT

Dial indicator	
Drill	
Torque wrench	

PP08Y-01

LUBRICANT

Iter	n	Capacity	Application
5S-FE:			
Outboard joint grease	Color=Black	140 – 160 g (5.5 – 6.3 oz.)	
Inboard joint grease	Color=Yellow ocher	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.)	

BRAKESST (Special Service Tools)

PP0I7-01

O9703-30010				,
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 DENSO type ABS, ABS & TRAC type		09023-00100	Union Nut Wrench 10 mm	
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 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 DENSO type ABS, ABS & TRAC type 09990–00300 ABS Actuator Checker Sub–harness DENSO type ABS, ABS & TRAC type	2	09703–30010	Brake Shoe Return Spring Tool	
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 ABS & TRAC type 09990–00163 ABS Actuator Checker Sheet "A" ABS & TRAC type 09990–00250 ABS Actuator Checker Sub–harness DENSO type ABS, ABS & TRAC type		09709–29018	LSPV Gauge Set	
09751–36011 Brake Line Union Nut 10 x 12 mm Wrench 09843–18020 Diagnosis Check Wire 09990–00150 ABS Actuator Checker and Sub–harness ABS & TRAC type 09990–00163 ABS Actuator Checker Sheet "A" ABS & TRAC type 09990–00250 ABS Actuator Checker Sub–harness DENSO type ABS, ABS & TRAC type		09718-00010	Shoe Hold Down Spring Driver	
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 DENSO type ABS, ABS & TRAC type		09737–00010	Brake Booster Push Rod Gauge	
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 DENSO type ABS, ABS & TRAC type		09751–36011		
Sub-harness 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 DENSO type ABS		09843–18020	Diagnosis Check Wire	
09990–00250 ABS Actuator Checker Sub–harness DENSO type ABS, ABS & TRAC type 09990–00300 ABS Actuator Checker Sub–harness DENSO type ABS		09990-00150		
"G" ABS & TRAC type 09990–00300 ABS Actuator Checker Sub–harness DENSO type ABS		09990-00163	ABS Actuator Checker Sheet "A"	ABS & TRAC type
		09990-00250		
⋄	Car as	09990-00300		DENSO type ABS
09990–00360 ABS Actuator Checker Sub–harness DENSO type ABS, ABS & TRAC type		09990-00360		

PREPARATION - BRAKE

\$ 6°.	09990-00430	ABS Actuator Checker Sheet "P"	DENSO type ABS
	09990-00450	ABS Actuator Checker Sub-harness "P"	ABS & TRAC type

RECOMMENDED TOOLS

PP0I8-01

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

PREPARATION - BRAKE

EQUIPMENT

PP019-03

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

LUBRICANT

PP0IA-01

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
6	09612–22011	Tilt Handle Bearing Replacer	PS gear
31 200	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

0	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
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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
<u>aran</u>	(09954–05020)	Claw No.2	Tilt steering column
Sandanese (09950–60010	Replacer Set	

			•
9	(09951–00180)	Replacer 18	PS gear
9	(09951–00240)	Replacer 24	PS gear
9	(09951–00250)	Replacer 25	PS gear
9	(09951–00260)	Replacer 26	PS gear
9	(09951–00290)	Replacer 29	PS gear
9	(09951–00310)	Replacer 31	PS gear
9	(09951–00320)	Replacer 32	PS gear
9	(09951–00330)	Replacer 33	PS vane pump
9	(09951–00340)	Replacer 34	PS gear
9	(09951–00400)	Replacer 40	PS gear
9	(09951–00430)	Replacer 43	PS gear
	(09952–06010)	Adapter	PS gear
9011	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	
J.	(09962–01000)	Variable Pin Wrench Arm Assy	PS vane pump
	(09963–01000)	Pin 10	PS vane pump

PP0DC-03

RECOMMENDED TOOLS

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

EQUIPMENT

PP0DD-05

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	

PREPARATION - STEERING

LUBRICANT

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

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PP0DE-05

SSM (Special Service Materials)

PP1XK-01

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

SUPPLEMENTAL RESTRAINT SYSTEMSST (Special Service Tools)

PP0MQ-0

	09082-00700	SRS Airbag Deployment Tool	
5	09082-00750	Airbag Deployment Wire Sub–harness No.3	
		Sub-Harriess No.5	
A	09082-00760	Airbag Deployment Wire	
		Sub-harness No.4	
20	09843-18020	Diagnosis Check Wire	

RECOMMENDED TOOLS

PP1XL-01

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 ELECTRICALSST (Special Service Tools)

PP0KY-0

09843–18020	Diagnosis Check Wire	

PP0KZ-01

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester.	
	09041-00030	Torx Driver T30 .	For removing and installing steering wheel pad
A CONTRACTOR OF THE PARTY OF TH	09042-00010	Torx Socket T30 .	For removing and installing steering wheel pad

EQUIPMENT

PP0L0-01

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

BODYSST (Special Service Tools)

PP0MU-01

Comp.	09804–24010	Luggage Compartment Door Torsion Bar Tool	
3	09812-00020	Door Hinge Set Bolt Wrench	

EQUIPMENT

PP0MV-01

Clip remover	
Torque wrench	
Drill	
Drill bit, diam 3.2 mm (0.126 in.)	
Hand riveter	
Таре	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 pretinsioner disposal
Vinyl bag	Seat belt pretensioner disposal

PREPARATION - BODY

LUBRICANT

otion			

PP0MW-01

Item	Capacity	Classification	
MP grease	_	-	

AIR CONDITIONING SST (Special Service Tools)

PP1XJ-0

	07110–58060	Air Conditioner Service Tool Set	
O TO	(07117–58060)	Refrigerant Drain Service Valve	
	(07117–58070)	T–Joint	
9	(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	

PREPARATION – AIR CONDITIONING

	07114–84020	Snap Ring Pliers	
()	07116–38360	Gas Leak Detector Assembly	
SECTION AND ADDRESS OF THE PARTY OF THE PART	09870-00015	A/C Quick Joint Puller No.1	Suction tube
	09870-00025	A/C Quick Joint Puller No.2	Liquid tube

RECOMMENDED TOOLS

PP0B7-01

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

EQUIPMENT

PP0B8-02

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

LUBRICANT

PP0B9-02

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.)	