

2AZ-FE ENGINE CONTROL SYSTEM

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-2

PREPARATION – 2AZ-FE ENGINE CONTROL SYSTEM

EQUIPMENT

Ohmmeter	
Radiator cap tester	
Service Wire Harness	
Torque wrench	

PP

PP-2

PREPARATION – 2GR-FE ENGINE CONTROL SYSTEM

2GR-FE ENGINE CONTROL SYSTEM

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PREPARATION – 2GR-FE ENGINE CONTROL SYSTEM

PP-3

EQUIPMENT

Ohmmeter	
Radiator cap tester	
Service Wire Harness	
Torque wrench	

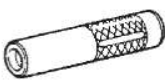
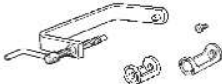
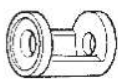
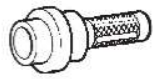
PP

PREPARATION – 2AZ-FE ENGINE MECHANICAL

PP-3

2AZ-FE ENGINE MECHANICAL

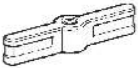
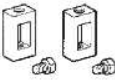
SST

	09032-00100	Oil Pan Seal Cutter	
	09201-10000	Valve Guide Bushing Remover & Replacer Set	
	(09201-01050)	Valve Guide Bushing Remover & Replacer 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	
	09216-42010	Belt Tension Wrench Set	
	09223-15030	Oil Seal & Bearing Replacer	
	09223-22010	Crankshaft Front Oil Seal Replacer	

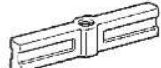
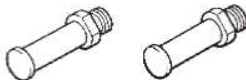
PP

PP-4

PREPARATION – 2AZ-FE ENGINE MECHANICAL

	09228-06501	Oil Filter Wrench	
	09309-37010	Transmission Bearing Replacer	
	09330-00021	Companion Flange Holding Tool	
	09817-33190	Sensor Socket Wrench	
	09843-18030	Tacho-pulse Pickup Wire No.2	
	09843-18040	Diagnosis Check Wire No.2	
	09950-40011	Puller B Set	
	(09951-04010)	Hanger 150	
	(09952-04010)	Slide Arm	
	(09953-04030)	Center Bolt 200	
	(09954-04010)	Arm 25	
	(09955-04041)	Claw No.4	

PREPARATION – 2AZ-FE ENGINE MECHANICAL**PP-5**

	(09957-04010)	Attachment	
	(91111-51014)	Bolt	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05021)	Claw No.2	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	
	09960-10010	Variable Pin Wrench Set	
	(09962-01000)	Variable Pin Wrench Arm Assembly	
	(09963-01000)	Pin 10	

PP

PP-8

PREPARATION – 2AZ-FE ENGINE MECHANICAL

SSM

Toyota Genuine Seal Packing Black, Three Bond 1207B or Equivalent
Toyota Genuine Seal Packing 1282B, Three Bond 1282B or Equivalent
Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent
Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent

PP

PP-6

PREPARATION – 2AZ-FE ENGINE MECHANICAL

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09031-00040	Pin Punch	
	09040-00011	Hexagon Wrench Set	
	(09043-20060)	Socket Hexagon Wrench 6	
	(09043-20100)	Socket Hexagon Wrench 10	
	09043-50100	Bi-hexagon Wrench 10 mm	
	09090-04020	Engine Sling Device	
	09200-00010	Engine Adjust Kit	

PP

PREPARATION – 2AZ-FE ENGINE MECHANICAL

PP-7

EQUIPMENT

Abrasive compound	Valve
Brush	Piston
Caliper gauge	
Carbide cutter	
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	
Hexagon wrench (1.5 mm)	Timing belt tensioner
Micrometer	
Pin hole grinder	Connecting rod bushing
Piston ring compressor	
Piston ring expander	
Plastigage	
Precision straight edge	
Press	
Reamer	Cylinder
Ridge reamer	Cylinder
Soft brush	Cylinder head Cylinder block
Solvent	
Spring tester	Valve spring
Steel square	Valve spring
Thermometer	
Torque wrench	
Torx socket wrench	
Valve seat cutter	
Valve guide bushing brush	
V-block	
Vernier calipers	
Wire brush	Valve Cylinder head

HINT:

Torx is registered trademark of Textron Inc.

PP

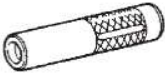
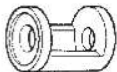
PP-8

PREPARATION – 2GR-FE ENGINE MECHANICAL

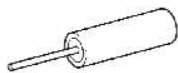
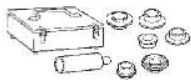
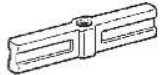
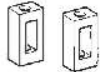
2GR-FE ENGINE MECHANICAL

SST

PP

	09032-00100	Oil Pan Seal Cutter	
	09201-10000	Valve Guide Bushing Remover & Replacer Set	
	(09201-01050)	Valve Guide Bushing Remover & Replacer 5	
	09201-41020	Valve Stem Oil Seal Replacer	
	09202-70020	Valve Spring Compressor	
	(09202-00010)	Attachment	
	09213-70011	Crankshaft Pulley Holding Tool	
	(09213-70020)	Bolt	
	09223-15030	Oil Seal & Bearing Replacer	
	09223-22010	Crankshaft Front Oil Seal Replacer	
	09228-06501	Oil Filter Wrench	

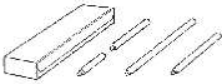
PREPARATION – 2GR-FE ENGINE MECHANICAL**PP-9**

	09249-63010	Torque Wrench Adaptor	
	09276-75010	Valve Lifter Tool	
	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00011)	Replacer Pipe	
	09330-00021	Companion Flange Holding Tool	
	09506-35010	Differential Drive Pinion Rear Bearing Replacer	
	09843-18030	Tacho-pulse Pickup Wire No.2	
	09843-18040	Diagnosis Check Wire No.2	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	

PP

PP-10

PREPARATION – 2GR-FE ENGINE MECHANICAL

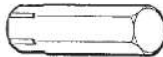
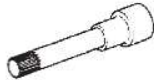
	(09954-05021)	Claw No.2	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	
	(09951-07150)	Handle 150	

PP

PREPARATION – 2GR-FE ENGINE MECHANICAL

PP-11

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09040-00011	Hexagon Wrench Set	
	(09043-20050)	Socket Hexagon Wrench 5	
	(09043-20060)	Socket Hexagon Wrench 6	
	(09043-20080)	Socket Hexagon Wrench 8	
	(09043-20100)	Socket Hexagon Wrench 10	
	(09043-30140)	Straight Hexagon Wrench 14	
	09043-30190	Straight Hexagon Wrench 19	
	09043-50100	Bi-hexagon Wrench 10 mm	
	09090-04020	Engine Sling Device	
	09200-00010	Engine Adjust Kit	

PP

PP-12

PREPARATION – 2GR-FE ENGINE MECHANICAL

	(09857-00031)	Spark Plug Gap Gauge	
---	---------------	----------------------	--

PP

PREPARATION – 2GR-FE ENGINE MECHANICAL

PP-13

EQUIPMENT

Abrasive compound	
Brush	
Caliper gauge	
Carbide cutter (30°)	
Carbide cutter (45°)	
Carbide cutter (60°)	
Carbide cutter (75°)	
Connecting rod aligner	
Cylinder gauge	
Dial indicator	
Dye penetrant	
Engine tune-up tester	
Groove cleaning tool	
Heater	
Micrometer	
Piston ring compressor	
Piston ring expander	
Plastigage	
Precision straight edge	
Press	
Reamer (5.5 mm)	
Ridge reamer	
Soft brush	
Solvent	
Spring tester	
Steel square	
Thermometer	
Torque wrench	
Torx socket wrench	
Valve seat cutter	
Valve guide bushing brush	
V-block	
Vernier calipers	
Wire brush	
Bar	
Chain Block	
CO/HC meter	
Compression gauge	
Dial indicator with magnetic base	
Engine Sling Device	
Feeler gauge	
Radiator cap tester	
Slide calipers	
Tachometer	
Timing light	
Wooden block	
Deep socket wrench 24 mm	

PP

PP-14**PREPARATION – 2GR-FE ENGINE MECHANICAL**

HINT:

Torx is registered trademark of Textron Inc.

PP

SSM

Toyota Genuine Seal Packing Black, Three Bond 1207B or Equivalent
Toyota Genuine Seal Packing 1282B, Three Bond 1282B or Equivalent
Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent
Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent

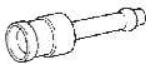


PREPARATION – 2AZ-FE FUEL

PP-13

2AZ-FE FUEL

SST

	09268-31011	Injection Measuring Tool Set	
	(09268-41110)	Adaptor	
	(09268-41300)	Clamp	
	(09268-41500)	Fuel Tube Connector	
	(90467-13001)	Clip	
	(95336-08070)	Hose	
	09268-45014	EFI Fuel Pressure Gauge	
	(09268-41200)	Gauge	
	(09268-41220)	Hose	
	(09268-41250)	T Joint	
	09842-30080	Wire H EFI Inspection	

PP

PP-14

PREPARATION – 2AZ-FE FUEL

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Measuring Flask	
Ohmmeter	
Service Wire Harness	
Stopwatch	
Torque wrench	
Vernier calipers	

PP

PP-16

PREPARATION – 2AZ-FE FUEL

SSM

	08850-00065	Butyl Tape Set	
--	-------------	----------------	--

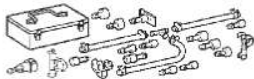
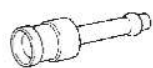
PP

PREPARATION – 2GR-FE FUEL

PP-15

2GR-FE FUEL

SST

	09268-31011	Injection Measuring Tool Set	
	(09268-41500)	Fuel Tube Connector	
	(90467-13001)	Clip	
	(95336-08070)	Hose	
	09268-41140	Adapter	
	09268-41400	Clamp	
	09268-45014	EFI Fuel Pressure Gauge	
	(09268-41200)	Gauge	
	(09268-41220)	Hose	
	(09268-41250)	T Joint	
	09842-30080	Wire H EFI Inspection	

PP

PP-16

PREPARATION – 2GR-FE FUEL

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Measuring Flask	
Ohmmeter	
Service Wire Harness	
Stopwatch	
Torque wrench	
Vernier calipers	

PP

PP-18

PREPARATION – 2GR-FE FUEL

SSM

	08850-00065	Butyl Tape Set	
--	-------------	----------------	--

PP

2AZ-FE EMISSION CONTROL

SST

	09224-00010	O2 Sensor Wrench	
---	-------------	------------------	--

PP

PP-18

PREPARATION – 2AZ-FE EMISSION CONTROL

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Intelligent vacuum pump	
Ohmmeter	
Service Wire Harness	
Torque wrench	
Vacuum gauge	



PP-18

PREPARATION – 2GR-FE EMISSION CONTROL

2GR-FE EMISSION CONTROL

SST

	09224-00010	O2 Sensor Wrench	
	09992-00242	Turbocharger Pressure Gauge	

PP

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-20

PREPARATION – 2GR-FE EMISSION CONTROL

EQUIPMENT

Intelligent vacuum pump	
Ohmmeter	
Service Wire Harness	
Torque wrench	
Vacuum gauge	

PP

2AZ-FE INTAKE

EQUIPMENT

Intelligent tester	
Ohmmeter	
Intelligent vacuum pump	



PP-20

PREPARATION – 2GR-FE INTAKE

2GR-FE INTAKE
EQUIPMENT

Intelligent tester	
Ohmmeter	
Intelligent vacuum pump	

PP

2AZ-FE EXHAUST

EQUIPMENT

Torque wrench	
---------------	--

PP

PP-22

PREPARATION – 2GR-FE EXHAUST

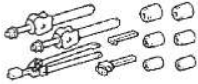
2GR-FE EXHAUST
EQUIPMENT

Torque wrench	
---------------	--

PP

2AZ-FE COOLING

SST

	09230-01010	Radiator Service Tool Set	
	(09231-01010)	Overhaul Handle	
	(09231-01030)	Claw	
	09231-14010	Punch	
	09960-10010	Variable Pin Wrench Set	
	(09962-01000)	Variable Pin Wrench Arm Assembly	
	(09963-00700)	Pin 7	

PP-24

PREPARATION – 2AZ-FE COOLING

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Ohmmeter	
Radiator cap tester	
Thermometer	
Torque wrench	
Vernier calipers	



PP-26

PREPARATION – 2AZ-FE COOLING

COOLANT

Capacity	Classification
6.2 liters (6.6 US qts, 5.5 Imp. qts)	Use only "TOYOTA Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of a combination of low phosphates and organic acids).

PP

PREPARATION – 2AZ-FE COOLING

PP-27

SSM

Toyota Genuine Seal Packing Black, Three Bond 1207B or Equivalent	
---	--

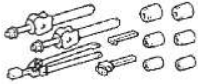
PP

PREPARATION – 2GR-FE COOLING

PP-25

2GR-FE COOLING

SST

	09230-01010	Radiator Service Tool Set	
	(09231-01010)	Overhaul Handle	
	(09231-01030)	Claw	
	09231-14010	Punch	
	09960-10010	Variable Pin Wrench Set	
	(09962-01000)	Variable Pin Wrench Arm Assembly	
	(09963-00700)	Pin 7	

PP

PP-26

PREPARATION – 2GR-FE COOLING

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Ohmmeter	
Radiator cap tester	
Thermometer	
Torque wrench	
Vernier calipers	



PP-28

PREPARATION – 2GR-FE COOLING

COOLANT

Capacity	Classification
9.0 liters (9.5 US qts, 7.9 Imp. qts)	Use only "TOYOTA Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of a combination of low phosphates and organic acids).

PP

PREPARATION – 2GR-FE COOLING

PP-29

SSM

Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent	
---	--

PP

2AZ-FE LUBRICATION

SST

	09223-22010	Crankshaft Front Oil Seal Replacer	
	09228-06501	Oil Filter Wrench	

PP

PP-28

PREPARATION – 2AZ-FE LUBRICATION

RECOMMENDED TOOLS

	09044-00020	Torx Socket E10	
	09200-00010	Engine Adjust Kit	

HINT:
Torx is registered trademark of Textron Inc.

PP

EQUIPMENT

Precision straight edge	
Torque wrench	
Vernier calipers	
Deep socket wrench (24 mm)	
Socket wrench (27 mm)	
Oil pressure gauge	



PP-30

PREPARATION – 2AZ-FE LUBRICATION

LUBRICANT

Item	Condition	Capacity	Classification
Oil grade	-	-	Use ILSAC multigrade engine oil. SAE 5W-20 and SAE 0W-20 engine oil may be used. However, SAE0W-20 is the best choice for good fuel economy and good starting in cold weather.
Drain and refill	with oil filter change	4.3 liters (4.5 US qts, 3.8 Imp. qts)	-
	without oil filter change	4.1 liters (4.3 US qts, 3.6 Imp. qts)	-
Dry fill	Dry fill	5.0 liters (5.3 US qts, 4.4 Imp. qts)	-

PP

EQUIPMENT

Precision straight edge	
Torque wrench	
Vernier calipers	
Deep socket wrench (24 mm)	
Socket wrench (27 mm)	
Oil pressure gauge	



PP-30

PREPARATION – 2AZ-FE LUBRICATION

LUBRICANT

Item	Condition	Capacity	Classification
Oil grade	-	-	Use ILSAC multigrade engine oil. SAE 5W-20 and SAE 0W-20 engine oil may be used. However, SAE0W-20 is the best choice for good fuel economy and good starting in cold weather.
Drain and refill	with oil filter change	4.3 liters (4.5 US qts, 3.8 Imp. qts)	-
	without oil filter change	4.1 liters (4.3 US qts, 3.6 Imp. qts)	-
Dry fill	Dry fill	5.0 liters (5.3 US qts, 4.4 Imp. qts)	-

PP

SSM

Toyota Genuine Adhesive 1344, Three Bond 1344B or Equivalent	
Toyota Genuine Seal Packing Black, Three Bond 1207B or Equivalent	



2GR-FE LUBRICATION

SST

	09223-22010	Crankshaft Front Oil Seal Replacer	
	09228-06501	Oil Filter Wrench	
	09506-35010	Differential Drive Pinion Rear Bearing Replacer	

PP

PP-30

PREPARATION – 2GR-FE LUBRICATION

RECOMMENDED TOOLS

	09200-00010	Engine Adjust Kit	
---	-------------	-------------------	--

PP

EQUIPMENT

Deep socket wrench (24 mm) -	
Hose	
Oil pressure gauge	
Socket wrench (27 mm)	
Precision straight edge	
Torque wrench	



PP-32

PREPARATION – 2GR-FE LUBRICATION

LUBRICANT

Item	Condition	Capacity	Classification
Oil grade	-	-	Use ILSAC multigrade engine oil. SAE 5W-30 engine oil may be used. However, SAE 5W-30 is the best choice for good fuel economy and good starting in cold weather.
Drain and refill	with oil filter change	6.1 liters (6.4 US qts, 5.4 Imp. qts)	-
	without oil filter change	5.7 liters (6.0 US qts, 5.0 Imp. qts)	-
Dry fill	Dry fill	6.5 liters (6.9 US qts, 5.7 Imp. qts)	-

PP

PREPARATION – 2GR-FE LUBRICATION

PP-33

SSM

Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent	
Toyota Genuine Seal Packing Block, Three Bond 1207B or Equivalent	
Toyota Genuine Seal Packing 1282B, Three Bond 1282B or Equivalent	

PP

2AZ-FE IGNITION

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-32

PREPARATION – 2AZ-FE IGNITION

EQUIPMENT

Spark plug cleaner	
Torque wrench	

PP

PP-32

PREPARATION – 2GR-FE IGNITION

2GR-FE IGNITION

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Spark plug cleaner	
Torque wrench	



2AZ-FE STARTING

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	
	09905-00013	Snap Ring Pliers	

PP

PP-34

PREPARATION – 2AZ-FE STARTING

EQUIPMENT

Torque wrench	
Service Wire Harness	
Vernier calipers	
Sandpaper (#400)	

PP

PP-34

PREPARATION – 2GR-FE STARTING

2GR-FE STARTING
RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	
	09905-00013	Snap Ring Pliers	

PP

EQUIPMENT

Torque wrench	
Service Wire Harness	
Vernier calipers	
Sandpaper (#400)	

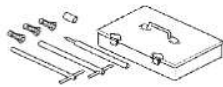
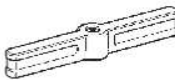
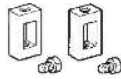


PREPARATION – 2AZ-FE CHARGING

PP-35

2AZ-FE CHARGING

SST

	09612-70100	Power Steering Oil Seal Remover Set	
	(09612-07240)	Collar	
	09820-63020	Alternator Pulley Wrench Set	
	09950-40011	Puller B Set	
	(09951-04020)	Hanger 200	
	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
	(09954-04010)	Arm 25	
	(09955-04071)	Claw No.7	
	(09957-04010)	Attachment	
	(09958-04011)	Holder	

PP

PP-36

PREPARATION – 2AZ-FE CHARGING

	09950-60010	Replacer Set	
	(09951-00250)	Replacer 25	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	

PP

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-38

PREPARATION – 2AZ-FE CHARGING

EQUIPMENT

Torque wrench	
Vernier calipers	
Pin (φ1 mm)	

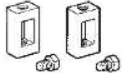
PP

PREPARATION – 2GR-FE CHARGING

PP-37

2GR-FE CHARGING

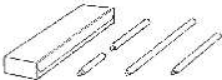
SST

	09820-63020	Alternator Pulley Wrench Set	
	09950-40011	Puller B Set	
	(09951-04020)	Hanger 200	
	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
	(09954-04010)	Arm 25	
	(09955-04071)	Claw No.7	
	(09957-04010)	Attachment	
	(09958-04011)	Holder	
	09950-60010	Replacer Set	
	(09951-00250)	Replacer 25	

PP

PP-38

PREPARATION – 2GR-FE CHARGING

	(09951-00470)	Replacer 47	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	

PP

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-40

PREPARATION – 2GR-FE CHARGING

EQUIPMENT

Torque wrench	
Vernier calipers	
Pin (φ1 mm)	

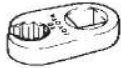
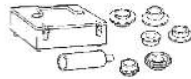
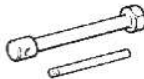
PP

PREPARATION – U250E AUTOMATIC TRANSAXLE

PP-39

U250E AUTOMATIC TRANSAXLE

SST

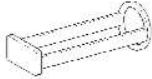
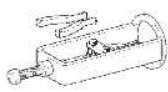
	09023-12701	Union Nut Wrench 17mm	
	09223-15030	Oil Seal & Bearing Replacer	
	09308-00010	Oil Seal Puller	
	09316-12010	Transfer Bearing Replacer	
	09316-20011	Transfer Bearing Replacer	
	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00011)	Replacer Pipe	
	09350-32014	TOYOTA Automatic Transmission Tool Set	
	(09351-32010)	One-way Clutch Test Tool	
	(09351-32020)	Stator Stopper	
	(09351-32070)	No.2 Piston Spring Compressor	

PP

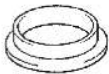
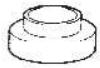
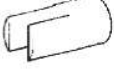
PP-40

PREPARATION – U250E AUTOMATIC TRANSAXLE

PP

	(09351-32140)	Oil Seal Replacer	
	09387-00020	Direct Clutch Wrench	
	09387-00030	Counter Drive Gear Holding Tool	
	09387-00041	Bearing Puller Assembly	
	(09387-01010)	Claw No.1	
	(09387-01021)	Claw No.2	
	(09387-01030)	Pin	
	(09387-01040)	Bearing Puller Body	
	09387-00050	Under Drive Gear Puller	
	09387-00060	Second Brake Wrench	
	09387-00070	First & Reverse Brake Wrench	
	09387-00080	Counter Drive Gear Nut Wrench	

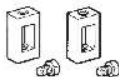
PREPARATION – U250E AUTOMATIC TRANSAXLE**PP-41**

	09495-65040	Axle Hub Oil Seal Replacer	
	09502-24010	Bearing Replacer	
	09515-21010	Rear Axle Shaft Bearing Replacer	
	09523-36010	Rear Axle Hub Guide Tool	
	09527-17011	Rear Axle Shaft Bearing Remover	
	09550-60010	Differential Side Bearing Replacer	
	(09951-00480)	Replacer 48	
	(09951-00790)	Replacer 79	
	09564-32011	Differential Preload Adaptor	
	09608-10010	Steering Knuckle Oil Seal Replacer	
	09608-32010	Steering Knuckle Oil Seal Replacer	
	09649-17010	Steering Knuckle Tool	

PP

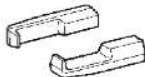
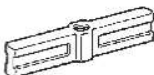
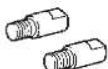
PP-42

PREPARATION – U250E AUTOMATIC TRANSAXLE

	09710-04081	Base	
	09726-36010	Lower Control Arm Bushing Replacer	
	09726-40010	Lower Control Shaft Bearing Replacer	
	09820-00031	Alternator Rotor Rear Bearing Replacer	
	09930-00010	Drive Shaft Nut Chisel	
	(09931-00010)	Handle	
	(09931-00020)	Nut Chisel	
	09950-00020	Bearing Remover	
	09950-00030	Bearing Remover Attachment	
	09950-40011	Puller B Set	
	(09952-04010)	Slide Arm	
	(09954-04010)	Arm 25	

PP

PREPARATION – U250E AUTOMATIC TRANSAXLE**PP-43**

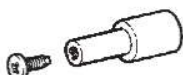
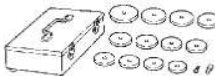
	(09955-04061)	Claw No.6	
	(09957-04010)	Attachment	
	(09958-04011)	Holder	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05021)	Claw No.2	
	(09955-05010)	Adapter No.1	
	09950-60010	Replacer Set	
	(09951-00230)	Replacer 23	
	(09951-00260)	Replacer 26	

PP

PP-44

PREPARATION – U250E AUTOMATIC TRANSAXLE

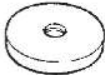
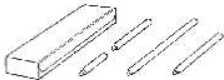
PP

	(09951-00320)	Replacer 32	
	(09951-00360)	Replacer 36	
	(09951-00450)	Replacer 45	
	(09951-00480)	Replacer 48	
	(09951-00500)	Replacer 50	
	(09951-00590)	Replacer 59	
	(09951-00630)	Replacer 63	
	(09952-06010)	Adapter	
	09950-60020	Replacer Set No.2	
	(09951-00720)	Replacer 72	
	(09951-00750)	Replacer 75	
	(09951-00810)	Replacer 81	

PREPARATION – U250E AUTOMATIC TRANSAXLE

PP-45

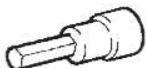
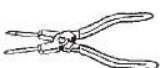
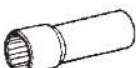
PP

	(09951-00890)	Replacer 89	
	09950-70010	Handle Set	
	(09951-00710)	Replacer 71	
	(09951-00780)	Replacer 78	
	(09951-07100)	Handle 100	
	(09951-07150)	Handle 150	
	(09951-07200)	Handle 200	

PP-46

PREPARATION – U250E AUTOMATIC TRANSAXLE

RECOMMENDED TOOLS

	09031-00030	Pin Punch	
	09040-00011	Hexagon Wrench Set	
	(09043-20060)	Socket Hexagon Wrench 6	
	(09043-20100)	Socket Hexagon Wrench 10	
	09042-00010	Torx Socket T30	
	09905-00012	Snap Ring No.1 Expander	
	09905-00013	Snap Ring Pliers	
	(09904-00090)	Claw Set	
	09924-12411	Deep Socket Wrench 41	

HINT:

Torx is registered trademark of Textron Inc.

EQUIPMENT

Dial indicator with magnetic base	
Feeler gauge	
Vernier calipers	
Torque wrench	
Plastic hammer	
Straight edge	
Press	
Punch	

PP

PP-48

PREPARATION – U250E AUTOMATIC TRANSAXLE

LUBRICANT

Automatic transaxle fluid		
Dry fill	8.0 liter (8.5 USqts, 7.0 Imp.qts)	ATF WS
Drain and refill	3.5 liter (3.7 USqts, 3.1 Imp.qts)	

PP

SSM

Toyota Genuine Seal Packing 1281, Three Bond 1281 or Equivalent	
Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent	
Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent	

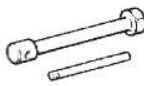
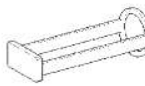


PREPARATION – U660E AUTOMATIC TRANSAXLE

PP-47

U660E AUTOMATIC TRANSAXLE

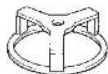
SST

	09223-15030	Oil Seal & Bearing Replacer	
	09308-00010	Oil Seal Puller	
	09308-14010	Replacer Pipe A	
	09316-10010	Remover & Replacer	
	09319-60020	Output Shaft Needle Roller Bearing Remover	
	09350-32014	TOYOTA Automatic Transmission Tool Set	
	(09351-32010)	One-way Clutch Test Tool	
	(09351-32020)	Stator Stopper	
	(09351-32140)	Oil Seal Replacer	
	09387-00020	Direct Clutch Wrench	
	09387-00060	Second Brake Wrench	

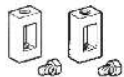
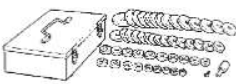
PP

PP-48

PREPARATION – U660E AUTOMATIC TRANSAXLE

PP		09387-00070	First & Reverse Brake Wrench	
		09387-00130	Counter Drive Gear Nut Wrench	
		09495-65040	Axle Hub Oil Seal Replacer	
		09527-17011	Rear Axle Shaft Bearing Remover	
		09564-33010	Drive Pinion Lock Nut Socket	
		09710-04081	Base	
		09843-18040	Diagnosis Check Wire No.2	
		09930-00010	Drive Shaft Nut Chisel	
		09950-00020	Bearing Remover	
		09950-00030	Bearing Remover Attachment	
		09950-40011	Puller B Set	
		(09951-04010)	Hanger 150	

PREPARATION – U660E AUTOMATIC TRANSAXLE**PP-49**

	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
	(09954-04010)	Arm 25	
	(09955-04071)	Claw No.7	
	(09957-04010)	Attachment	
	(09958-04011)	Holder	
	09950-60010	Replacer Set	
	(09951-00220)	Replacer 22	
	(09951-00230)	Replacer 23	
	(09951-00320)	Replacer 32	
	(09951-00400)	Replacer 40	
	(09951-00420)	Replacer 42	

PP

PP-50

PREPARATION – U660E AUTOMATIC TRANSAXLE

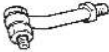
PP

	(09951-00480)	Replacer 48	
	(09951-00530)	Replacer 53	
	(09951-00540)	Replacer 54	
	(09951-00580)	Replacer 58	
	(09951-00650)	Replacer 65	
	09950-60020	Replacer Set No.2	
	(09951-00710)	Replacer 71	
	(09951-00790)	Replacer 79	
	(09951-00810)	Replacer 81	
	(09951-01030)	Replacer 103	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	

PREPARATION – U660E AUTOMATIC TRANSAXLE

PP-51

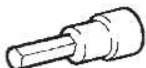
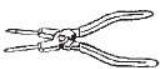
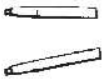
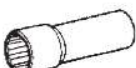
PP

	(09951-07150)	Handle 150	
	(09951-07200)	Handle 200	
	09951-01100	Replacer 110	
	09992-00095	Automatic Transmission Oil Pressure Gauge Set	
	(09992-00231)	Adaptor C	
	(09992-00271)	Gauge Assy	

PP-52

PREPARATION – U660E AUTOMATIC TRANSAXLE

RECOMMENDED TOOLS

	09031-00030	Pin Punch	
	09040-00011	Hexagon Wrench Set	
	(09043-20060)	Socket Hexagon Wrench 6	
	(09043-20100)	Socket Hexagon Wrench 10	
	09042-00010	Torx Socket T30	
	09905-00012	Snap Ring No.1 Expander	
	09905-00013	Snap Ring Pliers	
	(09904-00090)	Claw Set	
	09924-12411	Deep Socket Wrench 41	

HINT:

Torx is registered trademark of Textron Inc.

EQUIPMENT

Dial indicator with magnetic base	
Feeler gauge	
Vernier calipers	
Torque wrench	
Plastic hammer	
Straight edge	
Press	
Punch	

PP

PP-54

PREPARATION – U660E AUTOMATIC TRANSAXLE

LUBRICANT

Automatic transaxle fluid		
Dry fill	6.57 liter (6.94 USqts, 5.78 Imp.qts)	ATF WS

PP

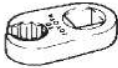
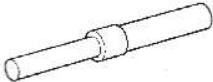
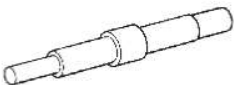
SSM

Toyota Genuine Seal Packing 1281, Three Bond 1281 or Equivalent	
Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent	
Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent	



CLUTCH

SST

	09023-00101	Union Nut Wrench 10 mm	
	09301-00210	Clutch Guide Tool	
	09301-00220	Clutch Guide Tool	
	09333-00013	Universal Joint Bearing Remover & Replacer	

PP

PP-54

PREPARATION – CLUTCH

EQUIPMENT

Vernier calipers	
Dial indicator with magnetic base	
Torque wrench	

PP

PREPARATION – CLUTCH

PP-55

LUBRICANT

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

PP

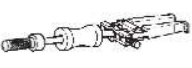
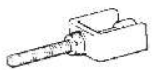
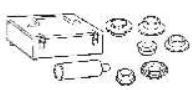
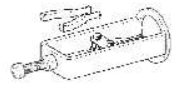
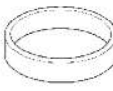
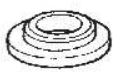
PP-54

PREPARATION – E351 MANUAL TRANSAXLE

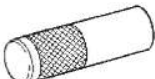
E351 MANUAL TRANSAXLE

SST

PP

	09229-55010	Oil Cooler Relief Valve Wrench	
	09308-00010	Oil Seal Puller	
	09309-12020	5th Driven Gear Replacer	
	09316-20011	Transfer Bearing Replacer	
	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00031)	Replacer B	
	(09316-00041)	Replacer C	
	09387-00041	Bearing Puller Assembly	
	(09387-02010)	Oil Seal Replacer	
	(09387-02020)	One-way Clutch Test Tool Set	
	09506-30012	Differential Drive Pinion Rear Bearing Cone Replacer	

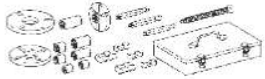
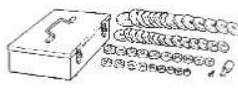
PREPARATION – E351 MANUAL TRANSAXLE**PP-55**

	09564-32011	Differential Preload Adaptor	
	09608-00071	Drive Pinion Rear Bearing Cone Replacer	
	09608-06041	Front Hub Inner Bearing Cone Replacer	
	09608-10010	Steering Knuckle Oil Seal Replacer	
	09608-32010	Steering Knuckle Oil Seal Replacer	
	09612-65014	Steering Worm Bearing Puller	
	(09612-01040)	Claw D	
	(09612-01050)	Hanger Pin with Nut	
	09631-12090	Seal Ring Tool	
	09930-00010	Drive Shaft Nut Chisel	
	09950-00020	Bearing Remover	
	09950-00030	Bearing Remover Attachment	

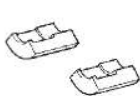
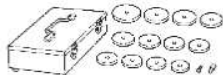
PP

PP-56

PREPARATION – E351 MANUAL TRANSAXLE

	09950-30012	Puller A Set	
	(09951-03010)	Upper Plate	
	(09953-03010)	Center Bolt	
	(09954-03010)	Arm	
	(09957-04010)	Attachment	
	09950-40011	Puller B Set	
	(09957-04010)	Attachment	
	09950-50013	Puller C Set	
	(09957-04010)	Attachment	
	09950-60010	Replacer Set	
	(09951-00180)	Replacer 18	
	(09951-00280)	Replacer 28	

PREPARATION – E351 MANUAL TRANSAXLE**PP-57**

	(09951-00320)	Replacer 32	
	(09951-00420)	Replacer 42	
	(09951-00430)	Replacer 43	
	(09951-00490)	Replacer 49	
	(09951-00560)	Replacer 56	
	(09951-00570)	Replacer 57	
	(09951-00600)	Replacer 60	
	(09951-00680)	Replacer 68	
	(09955-03011)	Claw No.1	
	09950-60020	Replacer Set No.2	
	(09951-00680)	Replacer 68	
	(09951-00730)	Replacer 73	

PP

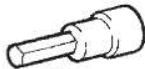
PP-58

PREPARATION – E351 MANUAL TRANSAXLE

	(09951-00790)	Replacer 79	
	(09951-00890)	Replacer 89	
	(09951-00910)	Replacer 91	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	
	(09951-07150)	Handle 150	
	(09951-07200)	Handle 200	

PP

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09031-00040	Pin Punch .	
	09040-00011	Hexagon Wrench Set	
	(09043-20060)	Socket Hexagon Wrench 6	
	09042-00050	Torx Socket T45	
	09905-00012	Snap Ring No.1 Expander	

PP

HINT:
Torx is registered trademark of Textron Inc.

PP-60

PREPARATION – E351 MANUAL TRANSAXLE

EQUIPMENT

Dial indicator with magnetic base	
Torque wrench	
Slide calipers	
V-block	
Micrometer	
Dial indicator	
Cylinder gauge	
Feeler gauge	
Precision straight edge	

PP

LUBRICANT

Item	Capacity	Classification
Manual transaxle oil (w/ Differential oil)	2.5 liters (2.6 US qts, 2.2 Imp. qts)	API GL-4 or GL-5 SAE 75W-90



PP-62

PREPARATION – E351 MANUAL TRANSAXLE

SSM

Toyota Genuine Seal Packing 1281, Three Bond 1281 or equivalent	
Toyota Genuine Adhesive 1344, Three Bond 1344 or equivalent	

PP

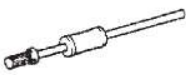
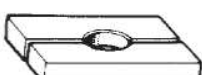
PP-60

PREPARATION – DRIVE SHAFT

DRIVE SHAFT

SST

PP

	09240-00020	Wire Gauge Set	
	09520-01010	Drive Shaft Remover Attachment	
	09520-24010	Differential Side Gear Shaft Puller	
	(09520-32040)	Shocker Set	
	09521-24010	Rear Axle Shaft Puller	
	09527-10011	Rear Axle Shaft Bearing Remover	
	09527-30010	Rear Axle Shaft Bearing Remover	
	09608-16042	Front Hub Bearing Adjusting Tool	
	(09608-02021)	Bolt & Nut	
	(09608-02041)	Retainer	
	09628-00011	Ball Joint Puller	

PREPARATION – DRIVE SHAFT

PP-61

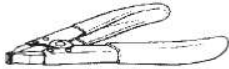
	09726-40010	Lower Control Shaft Bearing Replacer	
	09930-00010	Drive Shaft Nut Chisel	
	09950-00020	Bearing Remover	

PP

PP-62

PREPARATION – DRIVE SHAFT

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09040-00011	Hexagon Wrench Set	
	(09043-20060)	Socket Hexagon Wrench 6	
	09905-00012	Snap Ring No.1 Expander	

PP

EQUIPMENT

Torque wrench	
---------------	--



PP-64

PREPARATION – DRIVE SHAFT

LUBRICANT

Item		Capacity
2GR-FE	Outboard joint grease	164 to 184 g (5.8 to 6.5 oz.)
2AZ-FE (for TMC made)	Outboard joint grease	190 to 200 g (6.7 to 7.1 oz.)
2AZ-FE (for TMMK made)	Outboard joint grease	100 to 120 g (3.5 to 4.2 oz.)
2GR-FE	Inboard joint grease	155 to 175 g (5.5 to 6.2 oz.)
2AZ-FE (for TMC made)	Inboard joint grease	175 to 185 g (6.2 to 6.5 oz.)
2AZ-FE (for TMMK made)	Inboard joint grease	170 to 190 g (6.0 to 6.7 oz.)

PP

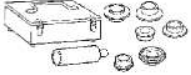
PP-62

PREPARATION – AXLE

AXLE

SST

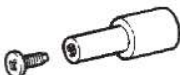
PP

	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00011)	Replacer Pipe	
	(09316-00031)	Replacer B	
	09520-00031	Rear Axle Shaft Puller	
	09527-17011	Rear Axle Shaft Bearing Remover	
	09527-20011	Rear Axle Shaft Bearing Remover	
	09555-55010	Differential Drive Pinion Bearing Replacer	
	09608-32010	Steering Knuckle Oil Seal Replacer	
	09628-10011	Ball Joint Puller	
	09950-60010	Replacer Set	
	(09951-00400)	Replacer 40	

PREPARATION – AXLE

PP-63

PP

	(09951-00430)	Replacer 43	
	(09951-00600)	Replacer 60	
	(09952-06010)	Adapter	
	09950-60020	Replacer Set No.2	
	(09951-00810)	Replacer 81	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	

PP-64

PREPARATION – AXLE

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09905-00013	Snap Ring Pliers	

PP

EQUIPMENT

Torque wrench	
Dial indicator with magnetic base	

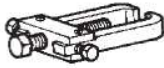


PP-64

PREPARATION – SUSPENSION

SUSPENSION

SST

	09628-62011	Boll Joint Puller	
	09727-30021	Coil Spring Compressor	
	(09727-00010)	Bolt Set	
	(09727-00021)	Arm Set	
	(09727-00031)	Compressor	

PP

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	
	09040-00011	Hexagon Wrench Set	
	(09043-20050)	Socket Hexagon Wrench 5	
	(09043-20060)	Socket Hexagon Wrench 6	
	09050-00032	Air Drill	

PP

PP-66

PREPARATION – SUSPENSION

EQUIPMENT

Torque wrench	
Dial indicator with magnetic base	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Angle gauge	
Slide Calipers	
Wooden block	
Camber-caster-kingpin gauge	
Drill (Safety equipment: protective goggles, etc.)	Shock absorber disposal

PP

PP-66

PREPARATION – TIRE AND WHEEL

TIRE AND WHEEL

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Tire pressure gauge	
Dial indicator with magnetic base	
Wheel balancer	
Torque wrench	

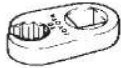
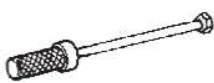


PREPARATION – BRAKE CONTROL

PP-67

BRAKE CONTROL

SST

	09023-00101	Union Nut Wrench 10 mm	
	09023-38200	Union Nut Wrench 12mm	
	09213-58013	Crankshaft Pulley Holding Tool	
	09309-36010	Transmission Rear Bearing Replacer	
	09520-00031	Rear Axle Shaft Puller	
	(09520-00040)	Shocker	
	(09521-00010)	Rod with Grip	
	09521-00020	Drive Shaft Boot Clamping Tool	
	09950-00020	Bearing Remover	

PP

PP-68

PREPARATION – BRAKE CONTROL

EQUIPMENT

Torque wrench	
---------------	--

PP

LUBRICANT

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

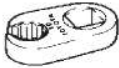


PP-68

PREPARATION – BRAKE

BRAKE

SST

	09023-00101	Union Nut Wrench 10 mm	
	09023-38200	Union Nut Wrench 12mm	
	09330-00021	Companion Flange Holding Tool	
	09737-00020	Brake Booster Push Rod Wrench	

PP

EQUIPMENT

Ruler	
Micrometer	
Dial indicator with magnetic base	
Torque wrench	



PP-70

PREPARATION – BRAKE

LUBRICANT

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

PP

PARKING BRAKE

EQUIPMENT

Torque wrench	
Slide calipers	
Brake drum gauge	
Feeler gauge	

PP

PP-70

PREPARATION – PARKING BRAKE

SSM

Toyota Genuine Adhesive 1344, Three Bond 1344 or equivalent	
---	--

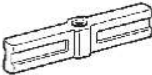
PP

PP-70

PREPARATION – STEERING COLUMN

STEERING COLUMN

SST

	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05031)	Claw No.3	

PP

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-72

PREPARATION – STEERING COLUMN

EQUIPMENT

Torque wrench	
---------------	--

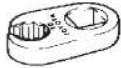
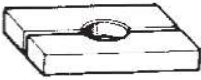
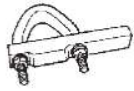
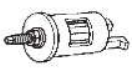
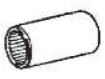
PP

PREPARATION – POWER STEERING

PP-71

POWER STEERING

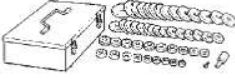
SST

	09023-12701	Union Nut Wrench 17mm	
	09023-38201	Union Nut Wrench 12mm	
	09249-63010	Torque Wrench Adaptor	
	09521-24010	Rear Axle Shaft Puller	
	09527-21011	Rear Axle Shaft Bearing Remover	
	09612-00012	Rack & Pinion Steering Rack Housing Stand	
	09612-22011	Tilt Handle Bearing Replacer	
	09612-24014	Steering Gear Housing Overhaul Tool Set	
	(09613-22011)	Steering Rack Shaft Bushing Puller	
	09616-00011	Steering Worm Bearing Adjusting Socket	
	09628-00011	Ball Joint Puller	

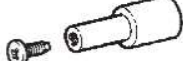
PP

PP-72

PREPARATION – POWER STEERING

	09630-00014	Power Steering Gear Housing Overhaul Tool Set	
	(09631-00132)	Vane Pump Bracket	
	09631-00200	Rack Seal Guide NO.2	
	09631-12071	Steering Rack Oil Seal Test Tool	
	(09633-00010)	Packing	
	09631-33010	Steering Rack Cover I	
	09640-10010	Power Steering Pressure Gauge Set	
	(09641-01010)	Gauge Assy	
	(09641-01030)	Attachment B	
	(09641-01060)	Attachment E	
	09922-10010	Variable Open Wrench	
	09950-60010	Replacer Set	

PREPARATION – POWER STEERING**PP-73**

	(09951-00180)	Replacer 18	
	(09951-00250)	Replacer 25	
	(09951-00280)	Replacer 28	
	(09951-00290)	Replacer 29	
	(09951-00320)	Replacer 32	
	(09951-00340)	Replacer 34	
	(09951-00400)	Replacer 40	
	(09952-06010)	Adapter	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	
	(09951-07150)	Handle 150	
	(09951-07360)	Handle 360	

PP

PP-74

PREPARATION – POWER STEERING

RECOMMENDED TOOLS

	09040-00011	Hexagon Wrench Set	
	(09043-30240)	Straight Hexagon Wrench 24	
	09905-00012	Snap Ring No.1 Expander	

PP

EQUIPMENT

Torque wrench	
Vernier calipers	
Dial indicator	
Feeler gauge	
Micrometer	
V-block	

PP

PP-76

PREPARATION – POWER STEERING

LUBRICANT

Item	Capacity	Classification
Power steering fluid (Total)	1.0 liters (1.1 US qts, 0.9 Imp. qts)	ATF DEXRON II or III or equivalent

PP

SSM

TOYOTA genuine adhesive 1344, THREE BOND 1344, or equivalent	
--	--

PP

PREPARATION – AIR CONDITIONING

PP-75

AIR CONDITIONING

SST

	07110-58060	Air Conditioner Service Tool Set	
	(07117-58060)	Refrigerant Drain Service Valve	
	(07117-58070)	T-Joint	
	(07117-58080)	Quick Disconnect Adapter	
	(07117-58090)	Quick Disconnect Adapter	
	(07117-78050)	Refrigerant Charging Gauge	
	(07117-88060)	Refrigerant Charging Hose	
	(07117-88070)	Refrigerant Charging Hose	
	(07117-88080)	Refrigerant Charging Hose	

PP

PP-76

PREPARATION – AIR CONDITIONING

RECOMMENDED TOOLS

	09042-00020	TORX Socket T40	
	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	
	09904-00010	Expander Set	
	(09904-00050)	No. 4 Claw	

HINT:
TORX is a registered trademark of Textron Inc.

EQUIPMENT

Vinyl tape	
Hexagon wrench 4mm	
Hexagon wrench 12 mm	
Gas leak detector	
Dial indicator with magnetic base	
Torque wrench	



PP-78

PREPARATION – AIR CONDITIONING

LUBRICANT

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

PP

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

PP-77

SUPPLEMENTAL RESTRAINT SYSTEM

SST

	09082-00700	SRS Airbag Deployment Tool	
	09082-00750	Airbag Deployment Wire Sub-harness No.3	
	09082-00770	Airbag Deployment Wire Sub-harness No.5	
	09082-00780	Airbag Deployment Wire Sub-harness No.6	
	09082-00802	Airbag Deployment Wire Sub-Harness No. 8	
	(09082-10801)	Wire A	
	(09082-20801)	Wire B	
	(09082-30801)	Wire C	
	09843-18060	SRS Check Wire	

PP

PP-78

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

RECOMMENDED TOOLS

	09042-00010	Torx Socket T30	
---	-------------	-----------------	--

PP

HINT:
Torx is a registered trademark of Textron Inc.

EQUIPMENT

Torque wrench	
Feeler gauge	
Battery	
Tape	
Bolt Length: 35.0 mm (1.378 in.) Diameter: 6.0 mm (0.236 in.) Pitch: 1.0 mm (0.039 in.)	Airbag disposal
Tire Width: 185 mm (7.28 in.) Inner diameter: 360 mm (14.17 in.)	Airbag disposal
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diameter: 360 mm (14.17 in.)	Airbag disposal
Wire harness	Airbag disposal
Plastic bag	Airbag disposal

PP

SEAT BELT

SST

	09082-00700	SRS Airbag Deployment Tool	
	09082-00770	Airbag Deployment Wire Sub-harness No.5	

PP

PP-80

PREPARATION – SEAT BELT

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PREPARATION – SEAT BELT

PP-81

EQUIPMENT

Torque wrench	
Protective tape	

PP

PP-80

PREPARATION – THEFT DETERRENT SYSTEM

THEFT DETERRENT SYSTEM

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Torque wrench	
---------------	--



ENGINE IMMOBILISER

SST

	09843-18040	Diagnosis Check Wire No.2	
---	-------------	---------------------------	--

PP

PP-82

PREPARATION – ENGINE IMMOBILISER

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-82

PREPARATION – CRUISE CONTROL

CRUISE CONTROL
RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Torque wrench	
---------------	--



LIGHTING

RECOMMENDED TOOLS

	09042-00010	TORX Socket T30	
	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-84

PREPARATION – LIGHTING

EQUIPMENT

Clip remover	
Torque wrench	
Tire pressure gage	
White paper	

PP

PP-84

PREPARATION – WIPER AND WASHER

WIPER AND WASHER
RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PREPARATION – WIPER AND WASHER

PP-85

EQUIPMENT

Protective tape	
Torque wrench	
Wire brush	
MP grease	



DOOR LOCK

RECOMMENDED TOOLS

	09042-00010	Torx Socket T30	
	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

HINT:
Torx is a registered trademark of Textron Inc.

PP-86

PREPARATION – DOOR LOCK

EQUIPMENT

MP grease	
Protective tape	
Torque wrench	

PP

PP-86

PREPARATION – METER

METER

RECOMMENDED TOOLS

	09082-00050	TOYOTA Electrical Tester Set	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Torque wrench	
---------------	--

PP

AUDIO / VISUAL

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-88

PREPARATION – AUDIO / VISUAL

EQUIPMENT

Torque wrench	
Double-sided tape	
Tape	

PP

PP-88

PREPARATION – NAVIGATION

NAVIGATION

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

HORN

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-90

PREPARATION – HORN

EQUIPMENT

Torque wrench	
---------------	--

PP

PP-90

PREPARATION – GARAGE DOOR OPENER

GARAGE DOOR OPENER
RECOMMENDED TOOLS

	09070-20010	Moulding Remover	
---	-------------	------------------	--

PP

OTHER SYSTEM

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-92

PREPARATION – WINDSHIELD / WINDOWGLASS

WINDSHIELD / WINDOWGLASS

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

EQUIPMENT

Torque wrench	
Protective Tape	
Knife	
Suction cup	
Piano wire	
Wooden block or similar object	
Plastic sheet	
Scraper	
Brush or sponge	
Sealer gun	

PP

PP-94

PREPARATION – WINDSHIELD / WINDOWGLASS

SSM

Toyota Genuine Windshield Glass Adhesive or Equivalent	
--	--

PP

MIRROR

RECOMMENDED TOOLS

	09042-00030	TORX Socket T20	
	09070-20010	Moulding Remover	
	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

HINT:
TORX is a registered trademark of Textron Inc.

PP-94

PREPARATION – MIRROR

EQUIPMENT

Torque wrench	
Protective tape	

PP

PP-94

PREPARATION – INSTRUMENT PANEL

INSTRUMENT PANEL
RECOMMENDED TOOLS

	09070-20010	Moulding Remover	
---	-------------	------------------	--

PP

EQUIPMENT

Torque wrench	
Tape	To avoid surface damage



SEAT

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-

PP

PP-96

PREPARATION – SEAT

EQUIPMENT

Hog ring	-
Hog ring pliers	-
Tape	To avoid surface damage
Torque wrench	-

PP

PP-96

PREPARATION – ENGINE HOOD / DOOR

ENGINE HOOD / DOOR

SST

	09804-24010	Luggage Compartment Door Torsion Bar Tool	
	09812-00010	Door Hinge Set Bolt Wrench	

PP

RECOMMENDED TOOLS

	09041-00020	TORX Driver T25	
	09042-00010	TORX Socket T30	
	09042-00020	TORX Socket T40	

PP

HINT:
TORX is a registered trademark of Textron Inc.

PP-98

PREPARATION – ENGINE HOOD / DOOR

EQUIPMENT

Protective goggle	
Metal saw	
Torque wrench	
MP grease	
Clip remover	
Protective tape	

PP

PP-98

PREPARATION – ENGINE HOOD / DOOR

EQUIPMENT

Protective goggle	
Metal saw	
Torque wrench	
MP grease	
Clip remover	
Protective tape	

PP

EXTERIOR

RECOMMENDED TOOLS

	09050-00032	Air Drill	
	09050-20010	Air Riveter	
	(09050-02020)	Nose Piece No. 1	
	09070-20010	Moulding Remover	

PP

PP-98

PREPARATION – EXTERIOR

EQUIPMENT

Torque wrench	
Protective tape	To avoid surface damage
Heat light	
Double-sided tape	
Piano wire	
Clip remover	
Wooden block or similar object	For tying both piano wire ends
Drill (Safety equipment: protective goggles, etc.)	
Drill bit	
Hand riveter	
Rivet	
Vacuum cleaner	

PP

PP-98

PREPARATION – INTERIOR

INTERIOR

RECOMMENDED TOOLS

	09050-20010	Air Riveter	
	09070-20010	Moulding Remover	

PP

EQUIPMENT

Clip remover	
Torque wrench	
Protective tape	
Double-sided tape	
Adhesive tape	
Drill (Safety equipment: protective goggles, etc.)	
Hand riveter	
Rivet	

PP

SLIDING ROOF

RECOMMENDED TOOLS

	09041-00020	TORX Driver T25	
	09082-00040	TOYOTA Electrical Tester	
	(09083-00150)	Test Lead Set	

PP

PP-100

PREPARATION – SLIDING ROOF

EQUIPMENT

Torque wrench	
Protective tape	

PP