

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

2009 GENERAL INFORMATION

Preparation - Highlander

1AR-FE ENGINE CONTROL SYSTEM

SST

1AR-FE ENGINE CONTROL SYSTEM - SST SPECIFICATION

	09224-00010	O2 Sensor Wrench	-
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RECOMMENDED TOOLS

1AR-FE ENGINE CONTROL SYSTEM - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

1AR-FE ENGINE CONTROL SYSTEM - EQUIPMENT CHART

Ohmmeter	-
Voltmeter	-
Service wire	-
Torque wrench	-
Battery	-

SSM

1AR-FE ENGINE CONTROL SYSTEM - SSM CHART

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2009 Toyota Highlander Limited	
2009 GENERAL INFORMATION Preparation - Highlander	

Toyota Genuine Adhesive 1344, Three Bond 1344 or Equivalent	-
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2GR-FE ENGINE CONTROL SYSTEM

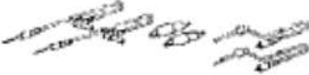
SST

2GR-FE ENGINE CONTROL SYSTEM - SST SPECIFICATION

	09224-00010	O2 Sensor Wrench
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RECOMMENDED TOOLS

2GR-FE ENGINE CONTROL SYSTEM - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

2GR-FE ENGINE CONTROL SYSTEM - EQUIPMENT CHART

Torque wrench	
Vacuum gauge	
Heater	

1AR-FE ENGINE MECHANICAL

SST

1AR-FE ENGINE MECHANICAL - SST SPECIFICATION

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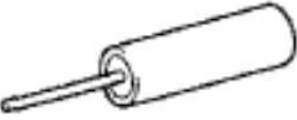
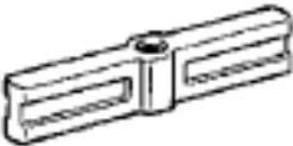
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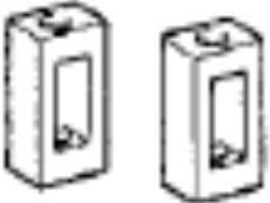
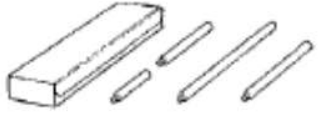
	09201-01055	Valve Guide Bushing Remover & Replacer 5.5	-
	09201-10000	Valve Guide Bushing Remover & Replacer Set	-
	(09201-01050)	Valve Guide Bushing Remover & Replacer 5	-
	09201-41020	Valve Stem Oil Seal Replacer	-
	09202-70020	Valve Spring Compressor	-
	(09202-00010)	Attachment	-
	09213-54015	Crankshaft Pulley Holding Tool	-
	09223-15030	Oil Seal & Bearing Replacer	-

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	09223-22010	Crankshaft Front Oil Seal Replacer	-
	09276-75010	Valve Lifter Tool	-
	09330-00021	Companion Flange Holding Tool	-
	09843-18030	Tacho-pulse Pickup Wire No.2	-
	09843-18040	Diagnosis Check Wire No. 2	-
	09950-50013	Puller C Set	-
	(09951-05010)	Hanger 150	-

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	(09952-05010)	Slide Arm	-
	(09953-05020)	Center Bolt 150	-
	(09954-05011)	Claw No. 1	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-
	(09951-07150)	Handle 150	-
	91551-80650	Bolt	-

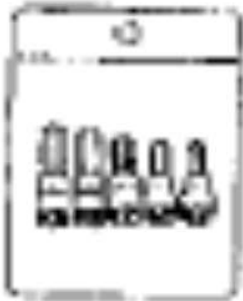
RECOMMENDED TOOLS

1AR-FE ENGINE MECHANICAL - RECOMMENDED TOOLS SPECIFICATION

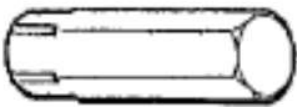
	09010-3C110	Set, Hexagon Socket Wrench	-
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	(09013-6C100)	Socket Hexagon 5mm	-
	(09013-6C130)	Socket Hexagon 10mm	-
	09013-1C500	"TORX" Socket Wrench E-type E5	-
	09013-1C520	"TORX" Socket Wrench E-type E7	-
	09013-1C530	"TORX" Socket Wrench E-type E8	-

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	09013-1C540	"TORX" Socket Wrench E-type E10	-
	09013-7C120	Straight Hexagon 14mm	-
	09013-7C310	Bi-hexagon Wrench 10mm	-
	09090-04020	Engine Sling Device	-
	09091-1C100	Oil Pan Seal Cutter	-

HINT:
"TORX" is registered trademark of Textron Inc.

EQUIPMENT

1AR-FE ENGINE MECHANICAL - EQUIPMENT CHART

Brush	-
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2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

Broken ring	-
Compression gauge	-
Compound	-
Connecting rod aligner	-
Container	-
CO/HC meter	-
Caliper gauge	-
Chain block	-
Cylinder gauge	-
Day penetrant	-
Dial indicator	-
Engine lifter	-
Feeler gauge	-
Groove cleaning tool	-
Hand-lap	-
Heater	-
Knife	-
Magnet base	-
Magnet hand	-
Micrometer	-
MP grease	-
Non-residue solvent	-
Paint	-
Pin	-
Piston ring expander	-
Plastic-faced hammer	-
Plastigage	-
Precision straightedge	-
Prussian blue	-
Ridge reamer	-
Rubber piece	-
Sharp reamer (5.5 mm)	-
Spring scale	-
Solvent	-
String	-
Steel square	-
Tachometer	-
Timing light	-
V-block	-
Valve seat cutter (30°, 45°, 60°, 75°)	-
Verier caliper	-

2009 Toyota Highlander Limited
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	-
Vise	-
Wooden block	-

SSM

1AR-FE ENGINE MECHANICAL - SSM CHART

Toyota Genuine Seal Packing Black, Three Bond 1207B or equivalent	-
Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent	-
Toyota Genuine Adhesive 1344, Three Bond 1344 or equivalent	-

2GR-FE ENGINE MECHANICAL

SST

2GR-FE ENGINE MECHANICAL - SST SPECIFICATION

	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	-

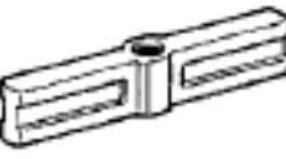
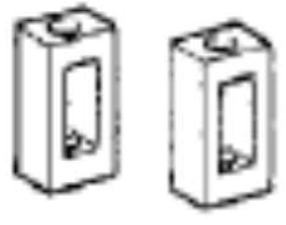
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	09213-70011	Crankshaft Pulley Holding Tool
	(09213-70020)	Bolt
	09223-15030	Oil Seal & Bearing Replacer
	09223-22010	Crankshaft Front Oil Seal Replacer
	09228-06501	Oil Filter Wrench
	09276-75010	Valve Lifter Tool
	09330-00021	Companion Flange Holding Tool

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2009 GENERAL INFORMATION Preparation - Highlander

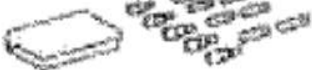
	09506-35010	Differential Drive Pinion Rear Bearing Replacer
	09843-18030	Tacho-pulse Pickup Wire No. 2
	09843-18040	Diagnosis Check Wire No. 2
	09922-10010	Variable Open Wrench
	09950-50013	Puller C Set
	(09951-05010)	Hanger 150
	(09952-05010)	Slide Arm
	(09953-05020)	Center Bolt 150

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	(09954-05021)	Claw No. 2	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-
	(09951-07150)	Handle 150	-
	09961-00950	Torque Wrench Adapter	-

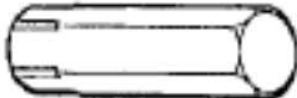
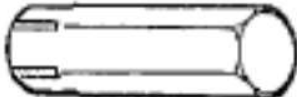
RECOMMENDED TOOLS

2GR-FE ENGINE MECHANICAL - RECOMMENDED TOOLS SPECIFICATION

	09010-3C100	Set, Hexagon Wrench	-
	(09013-6C100)	Socket Hexagon 5 mm	-
	(09013-6C110)	Socket Hexagon 6 mm	-
	(09013-6C120)	Socket Hexagon 8 mm	-

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	(09013-6C130)	Socket Hexagon 10 mm	-
	09011-2C590	Socket Wrench 30mm/12p	-
	09013-7C120	Straight Hexagon 14 mm	-
	09013-7C140	Straight Hexagon 19 mm	-
	09013-7C310	Bi-hexagon Wrench 10 mm	-
	09090-04020	Engine Sling Device	-

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	09091-1C100	Oil Pan Seal Cutter	-
	09200-00010	Engine Adjust Kit	-

EQUIPMENT

2GR-FE ENGINE MECHANICAL - EQUIPMENT CHART

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	-

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Steel square	-
Thermometer	-
Torque wrench	-
"TORX" socket wrench	-
Valve seat cutter	-
Valve guide bushing brush	-
V-block	-
Vernier caliper	-
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	-
Screwdriver	-
Hammer	-
Needle-nose pliers	-
Compressed air	-
Magnetic finger	-
Plastic hammer	-
Gasket scraper	-
Piston	-
Nipper	-
HINT: "TORX" is registered trademark of Textron Inc.	

SSM

2GR-FE ENGINE MECHANICAL - SSM CHART

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

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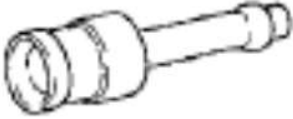
1AR-FE FUEL

SST

1AR-FE FUEL - SST SPECIFICATION

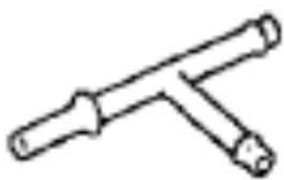
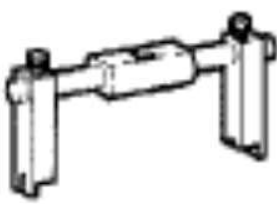
	09268-21010	Fuel Hose Puller	-
	09268-31011	Injection Measuring Tool Set	-
	(09268-41500)	Fuel Tube Connector	-
	(90467-13001)	Clip	-
	(95336-08070)	Hose	-
	09268-31012	Injection Measuring Tool Set	-

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	(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	-

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	(09268-41220)	Hose	-
	(09268-41250)	T Joint	-
	09808-14020	Fuel Pump Retainer Tool	-
	(09808-01410)	Holder	-
	(09808-01420)	Claw	-
	(09808-01430)	Bolt	-

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	09842-30080	Wire H EFI Inspection	-

RECOMMENDED TOOLS

1AR-FE FUEL - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

1AR-FE FUEL - EQUIPMENT CHART

Clip	-
Measuring Flask	-
Radiator cap tester	-
Stopwatch	-
Torque wrench	-
Vernier calipers	-

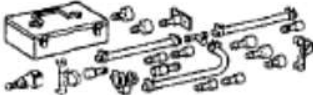
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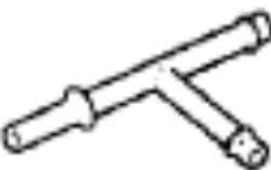
2GR-FE FUEL

SST

2GR-FE FUEL - SST SPECIFICATION

	09268-31011	Injection Measuring Tool Set
	(09268-41500)	Fuel Tube Connector
	(90467-13001)	Clip
	(95336-08070)	Hose
	09268-41140	Adapter
	09268-41400	Clamp

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	09268-45014	EFI Fuel Pressure Gauge
	(09268-41200)	Gauge
	(09268-41220)	Hose
	(09268-41250)	T Joint
	09808-14020	Retainer Tool, Fuel Pump
	(09808-01410)	Holder

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2009 GENERAL INFORMATION Preparation - Highlander		

		
	(09808-01420)	Claw
	(09808-01430)	Bolt
	09842-30080	Wire H EFI Inspection

RECOMMENDED TOOLS

2GR-FE FUEL - RECOMMENDED TOOLS SPECIFICATION

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

2009 Toyota Highlander Limited

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EQUIPMENT

2GR-FE FUEL - EQUIPMENT CHART

Clip	
Measuring Flask	
Radiator cap tester	
Stopwatch	
Torque wrench	
Vernier calipers	

1AR-FE EMISSION CONTROL

RECOMMENDED TOOLS

1AR-FE EMISSION CONTROL - RECOMMENDED TOOLS SPECIFICATION

	09012-2C510	Deep Socket Wrench 19mm	-
	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-

EQUIPMENT

1AR-FE EMISSION CONTROL - EQUIPMENT CHART

Pressure gauge	-
Torque wrench	-
Vacuum gauge	-

SSM

1AR-FE EMISSION CONTROL - SSM CHART

Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent	-
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2GR-FE EMISSION CONTROL

SST

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2009 GENERAL INFORMATION Preparation - Highlander

2GR-FE EMISSION CONTROL - SST SPECIFICATION

	09992-00242	Turbocharger Pressure Gauge
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RECOMMENDED TOOLS

2GR-FE EMISSION CONTROL - RECOMMENDED TOOLS SPECIFICATION

	09082-00040	TOYOTA Electrical Tester
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EQUIPMENT

2GR-FE EMISSION CONTROL - EQUIPMENT CHART

Ohmmeter	
Torque wrench	

SSM

2GR-FE EMISSION CONTROL - SSM CHART

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent	
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1AR-FE INTAKE

RECOMMENDED TOOLS

1AR-FE INTAKE - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

1AR-FE INTAKE - EQUIPMENT CHART

Torque wrench	-
Vacuum pump	-

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Battery

-

2GR-FE INTAKE

EQUIPMENT

2GR-FE INTAKE - EQUIPMENT CHART

Ohmmeter	-
Torque wrench	-
Vacuum pump	-

1AR-FE EXHAUST

EQUIPMENT

1AR-FE EXHAUST - EQUIPMENT CHART

Torque wrench	-
Vernier caliper	-
Wooden block	-

2GR-FE EXHAUST

EQUIPMENT

2GR-FE EXHAUST - EQUIPMENT CHART

Torque wrench	-
Vernier calipers	-

1AR-FE COOLING

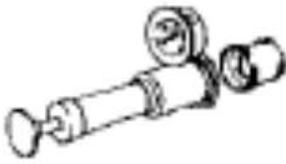
RECOMMENDED TOOLS

1AR-FE COOLING - RECOMMENDED TOOLS SPECIFICATION

	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-
	09230-40010	Radiator Cap Tester	-

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	09231-40010	Radiator Cap Tester Adapter Set A

EQUIPMENT

1AR-FE COOLING - EQUIPMENT CHART

Ohmmeter	-
Ammeter	-
Thermometer	-
Torque wrench	-
Oscilloscope	-

COOLANT

w/o Towing package

1AR-FE COOLING - COOLANT SPECIFICATION (W/O TOWING PACKAGE)

Condition	Capacity	Classification
w/ Rear heater	9.1 liters (9.6 US qts, 8.0 imp. qts)	Use only "TOYOTA Super Long Life Coolant", or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of a combination of low phosphates and organic acids)
w/o Rear heater	6.9 liters (7.3 US qts, 6.1 imp. qts)	

w/ Towing package

1AR-FE COOLING - COOLANT SPECIFICATION (W/ TOWING PACKAGE)

Condition	Capacity	Classification
w/ Rear heater	9.8 liters (10.4 US qts, 8.6 imp. qts)	Use only "TOYOTA Super Long Life Coolant", or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of a combination of low phosphates and organic acids)
w/o Rear heater	7.6 liters (8.0 US qts, 6.7 imp. qts)	

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2GR-FE COOLING

SST

2GR-FE COOLING - SST SPECIFICATION

	09960-10010	Variable Pin Wrench Set	
	(09962-01000)	Variable Pin Wrench Arm Assembly	
	(09963-00700)	Pin 7	

RECOMMENDED TOOLS

2GR-FE COOLING - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

2GR-FE COOLING - EQUIPMENT CHART

Ohmmeter	-
Radiator cap tester	-
Thermometer	-
Torque wrench	-
Slide calipers	-
Ammeter (A)	-

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COOLANT

w/o Trailer Towing System

2GR-FE COOLING - COOLANT SPECIFICATION (W/O TRAILER TOWING SYSTEM)

Condition	Capacity	Classification
w/ Rear Heater	11.0 liters (11.6 US qts, 9.7 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).
w/o Rear Heater	8.8 liters (9.3 US qts, 7.7 imp. qts)	

w/ Trailer Towing System

2GR-FE COOLING - COOLANT SPECIFICATION (W/ TRAILER TOWING SYSTEM)

Condition	Capacity	Classification
w/ Rear Heater	11.7 liters (12.4 US qts, 10.3 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).
w/o Rear Heater	9.5 liters (10.1 US qts, 8.4 imp. qts)	

SSM

2GR-FE COOLING - SSM CHART

Toyota Genuine Adhesive 1344, Three Bond 1344 or equivalent	-
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1AR-FE LUBRICATION

SST

1AR-FE LUBRICATION - SST SPECIFICATION

	09228-06501	Oil Filter Wrench	-
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RECOMMENDED TOOLS

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

1AR-FE LUBRICATION - RECOMMENDED TOOLS SPECIFICATION

	09012-2C520	Deep Socket Wrench 24 mm	-
	09082-00050	TOYOTA Electrical Tester Set	-
	(09083-00150)	Test Lead Set	-

EQUIPMENT

1AR-FE LUBRICATION - EQUIPMENT CHART

Container	-
Hose	-
Oil pressure gauge	-
Torque wrench	-
Vinyl tape	-
Wooden block	-

LUBRICANT

Standard Oil Grade

1AR-FE LUBRICATION - LUBRICANT SPECIFICATION (STANDARD OIL GRADE)

Oil Grade	Oil Viscosity
ILSAC multigrade engine oil	• 0W-20 • 5W-20 • (0W-20 is the best choice for fuel economy and good starting in cold weather.)

Standard Capacity

1AR-FE LUBRICATION - LUBRICANT SPECIFICATION (STANDARD CAPACITY)

Item	Specified Condition

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Drain and refill with oil filter change	4.4 liters (4.6 US qts, 3.9 imp. qts)
Drain and refill without oil filter change	4.0 liters (4.2 US qts, 3.5 imp. qts)
Dry fill	5.7 liters (6.0 US qts, 5.0 imp. qts)

SSM

1AR-FE LUBRICATION - SSM CHART

Toyota genuine seal packing black, three bond 1207B or equivalent	-
Toyota genuine adhesive 1344, three bond 1344 or equivalent	-

2GR-FE LUBRICATION

SST

2GR-FE LUBRICATION - SST SPECIFICATION

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

EQUIPMENT

2GR-FE LUBRICATION - EQUIPMENT CHART

Deep socket wrench (24 mm)	
Hose	
Oil pressure gauge	
Socket wrench (27 mm)	
Straight edge	

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Torque wrench

LUBRICANT

2GR-FE LUBRICATION - LUBRICANT SPECIFICATION

Item	Condition	Capacity	Classification
Oil grade	-	-	5W-30: API grade SL Energy-Conserving, SM Energy-Conserving or ILSAC multigrade engine oil
Drain and refill	w/ oil filter change	6.1 liters (6.4 US qts, 5.4 imp. qts)	-
	w/o oil filter change	5.7 liters (6.0 US qts, 5.0 imp. qts)	-
Dry fill	w/ Oil Cooler	7.1 liters (7.5 US qts, 6.2 imp. qts)	-
	w/o Oil Cooler	6.8 liters (7.2 US qts, 6.0 imp. qts)	-

SSM

2GR-FE LUBRICATION - SSM CHART

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

1AR-FE IGNITION

RECOMMENDED TOOLS

1AR-FE IGNITION - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

1AR-FE IGNITION - EQUIPMENT CHART

Megohmmeter	-
Torque wrench	-
Spark plug cleaner	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

2GR-FE IGNITION

RECOMMENDED TOOLS

2GR-FE IGNITION - RECOMMENDED TOOLS SPECIFICATION

	09082-00040	TOYOTA Electrical Tester	
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EQUIPMENT

2GR-FE IGNITION - EQUIPMENT CHART

Spark plug cleaner	-
Torque wrench	-

1AR-FE STARTING

RECOMMENDED TOOLS

1AR-FE STARTING - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

1AR-FE STARTING - EQUIPMENT CHART

Ammeter(A)	-
Ohmmeter	-
Torque wrench	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

Service Wire Harness	-
Vernier calipers	-
Sandpaper (No. 400)	-
Vise	-

2GR-FE STARTING

RECOMMENDED TOOLS

2GR-FE STARTING - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

2GR-FE STARTING - EQUIPMENT CHART

Ammeter(A)	-
Ohmmeter	-
Torque wrench	-
Service Wire Harness	-
Vernier calipers	-
Sandpaper	-

1AR-FE CHARGING

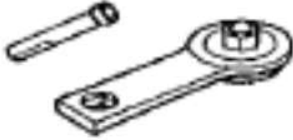
SST

1AR-FE CHARGING - SST SPECIFICATION

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2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09820-63021	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	-

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

			
	09950-60010	Replacer Set	-
	(09951-00250)	Replacer 25	-
	(09951-00520)	Replacer 52	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-

RECOMMENDED TOOLS

1AR-FE CHARGING - RECOMMENDED TOOLS SPECIFICATION

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2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

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

EQUIPMENT

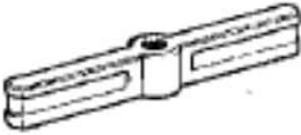
1AR-FE CHARGING - EQUIPMENT CHART

Ammeter	-
Ohmmeter	-
Torque wrench	-
Vernier calipers	-
Pin (ø1 mm)	-
Vise	-
Press	-

2GR-FE CHARGING

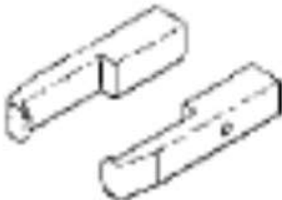
SST

2GR-FE CHARGING - SST SPECIFICATION

	09820-63021	Alternator Pulley Wrench Set	
	09950-40011	Puller B Set	
	(09951-04020)	Hanger 200	
	(09952-04010)	Slide Arm	

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

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

RECOMMENDED TOOLS

2GR-FE CHARGING - RECOMMENDED TOOLS SPECIFICATION

	09082-00040	TOYOTA Electrical Tester
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EQUIPMENT

2GR-FE CHARGING - EQUIPMENT CHART

Ammeter	
Ohmmeter	
Torque wrench	
Vernier calipers	
Pin (ø1 mm)	

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

U151E AUTOMATIC TRANSAXLE

SST

U151E AUTOMATIC TRANSAXLE - SST SPECIFICATION

	09215-00013	Crankshaft Bearing Remover & Replacer Set B
	(09215-00471)	Camshaft Bearing Remover & Replacer
	09223-15020	Oil Seal & Bearing Replacer
	09223-15030	Oil Seal & Bearing Replacer
	09308-00010	Oil Seal Puller

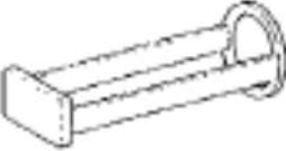
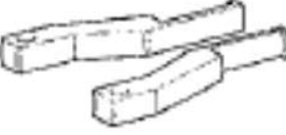
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09316-12010	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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	(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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09387-00080	Counter Drive Gear Nut Wrench
	09502-12010	Differential Bearing Replacer
	09506-35010	Differential Drive Pinion Rear Bearing Replacer
	09514-35011	Rear Wheel Bearing Puller
	09527-17011	Rear Axle Shaft Bearing Remover
	09550-60010	Differential Side Bearing Replacer

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

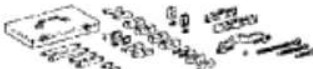
		
	(09951-00490)	Replacer 49
	09564-32011	Differential Preload Adaptor
	09608-10010	Steering Knuckle Oil Seal Replacer
	09649-17010	Steering Knuckle Tool
	09710-30050	Suspension Arm Bushing Replacer

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09726-40010	Lower Control Shaft Bearing Replacer
	09930-00010	Drive Shaft Nut Chisel
	(09931-00010)	Handle
	(09931-00020)	Nut Chisel
	09950-00020	Bearing Remover
	09950-00030	Bearing Remover Attachment

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

		
	09950-40011	Puller B Set
	(09957-04010)	Attachment
	09950-60010	Replacer Set
	(09951-00230)	Replacer 23
	(09951-00260)	Replacer 26

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-00320)	Replacer 32
	(09951-00450)	Replacer 45
	(09951-00490)	Replacer 49
	(09951-00500)	Replacer 50
	(09951-00590)	Replacer 59
	(09952-06010)	Adapter

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09957-04010)	Attachment
	09950-60020	Replacer Set No. 2
	(09951-00750)	Replacer 75
	(09951-00810)	Replacer 81
	(09951-00890)	Replacer 89
	(09951-00910)	Replacer 91

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-01030)	Replacer 103
	09950-70010	Handle Set
	(09951-07100)	Handle 100
	(09951-07150)	Handle 150

RECOMMENDED TOOLS

U151E AUTOMATIC TRANSAXLE - RECOMMENDED TOOLS SPECIFICATION

	09011-12301	Socket Wrench 30 mm
	09017-1C130	Union Nut Wrench 17mm
	09031-00030	Pin Punch

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09031-00040	Pin Punch
	09040-00011	Hexagon Wrench Set
	(09043-20050)	Socket Hexagon Wrench 5
	(09043-20060)	Socket Hexagon Wrench 6
	(09043-20100)	Socket Hexagon Wrench 10
	09042-00010	"TORX" Socket T30
	09070-20010	Moulding Remover

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09090-04020	Engine Sling Device
	09216-00021	Belt Tension Gauge
	09905-00012	Snap Ring No. 1 Expander
	09905-00013	Snap Ring Pliers
HINT: "TORX" is registered trademark of Textron Inc.		

EQUIPMENT

U151E AUTOMATIC TRANSAXLE - EQUIPMENT CHART

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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

Chain block	
Feeler gauge	
Plastic hammer	
Press	

LUBRICANT

U151E AUTOMATIC TRANSAXLE - LUBRICANT SPECIFICATION

U151E Automatic transaxle fluid		
Dry fill	8.8 liter (9.3 US qts, 7.7 imp.qts)	Toyota Genuine ATF WS
Drain and refill	3.5 liter (3.7 US qts, 3.1 imp.qts)	

SSM

U151E AUTOMATIC TRANSAXLE - SSM CHART

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	

U151F AUTOMATIC TRANSAXLE

SST

U151F AUTOMATIC TRANSAXLE - SST SPECIFICATION

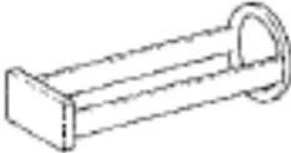
	09214-76011	Crankshaft Pulley Replacer
	09223-15020	Oil Seal & Bearing Replacer
	09223-15030	Oil Seal & Bearing Replacer

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

		
	09308-00010	Oil Seal Puller
	09316-20011	Transfer Bearing Replacer
	09350-32014	TOYOTA Automatic Transmission Tool Set
	(09351-32010)	One-way Clutch Test Tool
	(09351-32020)	Stator Stopper

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

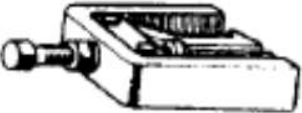
	(09351-32070)	No. 2 Piston Spring Compressor
	(09351-32140)	Oil Seal Replacer
	09387-00020	Direct Clutch Wrench
	09387-00030	Counter Drive Gear Holding Tool
	09387-00041	Bearing Puller Assembly
	(09387-01010)	Claw No.1
	(09387-01021)	Claw No.2

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

	(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

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09387-00080	Counter Drive Gear Nut Wrench
	09502-12010	Differential Bearing Replacer
	09506-35010	Differential Drive Pinion Rear Bearing Replacer
	09514-35011	Rear Wheel Bearing Puller
	09527-17011	Rear Axle Shaft Bearing Remover
	09564-32011	Differential Preload Adaptor

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09608-10010	Steering Knuckle Oil Seal Replacer
	09649-17010	Steering Knuckle Tool
	09726-40010	Lower Control Shaft Bearing Replacer
	09930-00010	Drive Shaft Nut Chisel
	(09931-00010)	Handle
	(09931-00020)	Nut Chisel

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

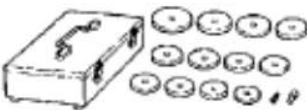
		
	09950-00020	Bearing Remover
	09950-00030	Bearing Remover Attachment
	09950-40011	Puller B Set
	(09957-04010)	Attachment
	09950-60010	Replacer Set
	(09951-00230)	Replacer 23

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-00260)	Replacer 26
	(09951-00320)	Replacer 32
	(09951-00450)	Replacer 45
	(09951-00480)	Replacer 48
	(09951-00500)	Replacer 50

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00590)	Replacer 59
	(09951-00600)	Replacer 60
	(09952-06010)	Adapter
	(09957-04010)	Attachment
	09950-60020	Replacer Set No. 2
	(09951-00730)	Replacer 73

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00750)	Replacer 75
	(09951-00810)	Replacer 81
	(09951-00890)	Replacer 89
	(09951-00910)	Replacer 91
	(09951-01030)	Replacer 103
	09950-70010	Handle Set

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-07100)	Handle 100
	(09951-07150)	Handle 150
	(09951-07200)	Handle 200

RECOMMENDED TOOLS

U151F AUTOMATIC TRANSAXLE - RECOMMENDED TOOLS SPECIFICATION

	09011-12301	Socket Wrench 30 mm
	09017-1C130	Union Nut Wrench 17mm
	09031-00030	Pin Punch
	09031-00040	Pin Punch

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

	09040-00011	Hexagon Wrench Set
	(09043-20050)	Socket Hexagon Wrench 5
	(09043-20060)	Socket Hexagon Wrench 6
	(09043-20100)	Socket Hexagon Wrench 10
	09042-00010	"TORX" Socket T30
	09042-00040	"TORX" Socket T50
	09070-20010	Moulding Remover

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09090-04020	Engine Sling Device
	09216-00021	Belt Tension Gauge
	09905-00012	Snap Ring No. 1 Expander
	09905-00013	Snap Ring Pliers
HINT: "TORX" is registered trademark of Textron Inc.		

EQUIPMENT

U151F AUTOMATIC TRANSAXLE - EQUIPMENT CHART

Straightedge	
Torque wrench	
Vernier calipers	
Dial indicator with magnetic base	
Slide calipers	
Chain block	
Feeler gauge	
Plastic hammer	
Press	

LUBRICANT

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

U151F AUTOMATIC TRANSAXLE - LUBRICANT SPECIFICATION

U151F Automatic transaxle fluid		
Dry fill	9.0 liter (9.5 US qts, 7.9 imp.qts)	Toyota Genuine ATF WS
Drain and refill	3.5 liter (3.7 US qts, 3.1 imp.qts)	

SSM

U151F AUTOMATIC TRANSAXLE - SSM CHART

Toyota 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	

U760E AUTOMATIC TRANSAXLE

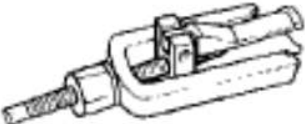
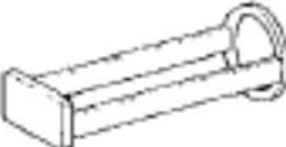
SST

U760E AUTOMATIC TRANSAXLE - SST SPECIFICATION

	09223-15030	Oil Seal & Bearing Replacer	-
	09308-00010	Oil Seal Puller	-
	09308-14010	Replacer Pipe A	-
	09316-10010	Remover & Replacer	-

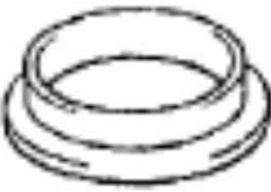
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

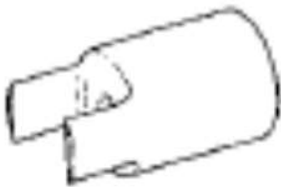
	09316-60011	Transmission & Transfer Bearing Replacer	-
	(09316-00011)	Replacer Pipe	-
	09319-60020	Output Shaft Needle Roller Bearing Remover	-
	09350-32014	TOYOTA Automatic Transmission Tool Set	-
	(09351-32140)	Oil Seal Replacer	-
	09387-00020	Direct Clutch Wrench	-
	09387-00060	Second Brake Wrench	-
			-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09387-00070	First & Reverse Brake Wrench	-
	09387-00130	Counter Drive Gear Nut Wrench	-
	09495-65040	Axle Hub Oil Seal Replacer	-
	09523-36010	Rear Axle Hub Guide Tool	-
	09527-17011	Rear Axle Shaft Bearing Remover	-
	09564-33010	Drive Pinion Lock Nut Socket	-

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

			
	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	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

			
	(09957-04010)	Attachment	-
	09950-60010	Replacer Set	-
	(09951-00220)	Replacer 22	-
	(09951-00230)	Replacer 23	-
	(09951-00320)	Replacer 32	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

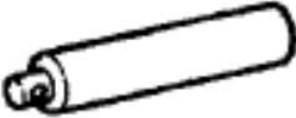
	(09951-00400)	Replacer 40	-
	(09951-00480)	Replacer 48	-
	(09951-00490)	Replacer 49	-
	(09951-00540)	Replacer 54	-
	(09951-00550)	Replacer 55	-
	(09951-00580)	Replacer 58	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

			
	(09951-00630)	Replacer 63	-
	(09951-00650)	Replacer 65	-
	09950-60020	Replacer Set No. 2	-
	(09951-00710)	Replacer 71	-
	(09951-00790)	Replacer 79	-

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-00810)	Replacer 81	-
	(09951-01030)	Replacer 103	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-
	(09951-07150)	Handle 150	-
	(09951-07200)	Handle 200	-
	09951-01100	Replacer 110	-
	09992-00095	Automatic Transmission Oil Pressure Gauge Set	-

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09992-00231)	Adaptor C	-
	(09992-00271)	Gauge Assy	-

RECOMMENDED TOOLS

U760E AUTOMATIC TRANSAXLE - RECOMMENDED TOOLS SPECIFICATION

	09010-3C110	Set, Hexagon Socket Wrench	-
	(09013-6C110)	Socket Hexagon 6mm	-
	09010-3C120	Set, "TORX" Socket Wrench	-
	(09013-1C120)	"TORX" Socket Wrench T-type T30	-

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09051-1C410	Pin Punch 5	-
	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-
	09905-00012	Snap Ring No. 1 Expander	-
	09905-00013	Snap Ring Pliers	-
	(09904-00090)	Claw Set	-

HINT:

TORX is a registered trademark of Textron Inc.

EQUIPMENT

U760E AUTOMATIC TRANSAXLE - EQUIPMENT CHART

Dial indicator with magnetic base	-
Vernier caliper	-
Torque wrench	-
Plastic hammer	-
Straightedge	-
Chisel	-

LUBRICANT

U760E AUTOMATIC TRANSAXLE - LUBRICANT SPECIFICATION

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

Automatic transaxle fluid		
Dry fill	6.6 liters (7.0 US qts, 5.8 Imp. qts)	Toyota Genuine ATF WS

SSM

U760E AUTOMATIC TRANSAXLE - SSM CHART

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	-

MF2A TRANSFER

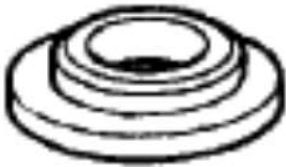
SST

MF2A TRANSFER - SST SPECIFICATION

	09223-00010	Cover & Seal Replacer
	09223-46011	Crankshaft Front Oil Seal Replacer
	09308-00010	Oil Seal Puller
	09316-60011	Transmission & Transfer Bearing Replacer
	(09316-00041)	Replacer C

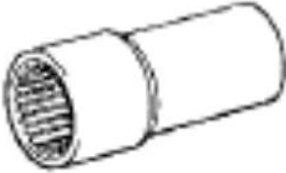
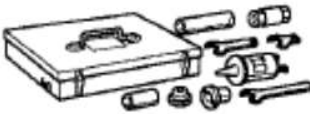
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09316-00061)	Replacer E
	09325-20010	Transmission Oil Plug
	09326-20011	Output Shaft Bearing Lock Nut Wrench
	09387-00010	Transfer Oil Seal Replacer
	09387-00090	Senter Differential Senterring Tool
	09506-35010	Differential Drive Pinion Rear Bearing Replacer
	09520-10021	Drive Shaft Remover & Replacer

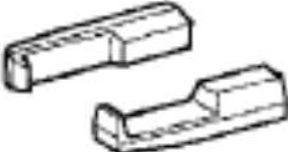
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09556-16030	Differential Drive Pinion Holding Tool 28
	09612-10093	Steering Gear Housing Overhaul Tool Set
	(09612-10061)	Steering Pinion Bearing Replacer
	09930-00010	Drive Shaft Nut Chisel
	09950-00020	Bearing Remover
	09950-00030	Bearing Remover Attachment
	09950-40011	Puller B Set
	(09951-04010)	Hanger 150

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09952-04010)	Slide Arm
	(09953-04020)	Center Bolt 150
	(09954-04010)	Arm 25
	(09955-04061)	Claw No. 6
	(09957-04010)	Attachment
	(09958-04011)	Holder
	09950-60010	Replacer Set

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-00350)	Replacer 35
	(09951-00360)	Replacer 36
	(09951-00380)	Replacer 38
	(09951-00430)	Replacer 43
	(09951-00540)	Replacer 54

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00580)	Replacer 58
	(09951-00610)	Replacer 61
	(09951-00620)	Replacer 62
	(09951-07150)	Handle 150
	(09952-06010)	Adapter
	09950-60020	Replacer Set No. 2
	(09951-00680)	Replacer 68

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

	(09951-00710)	Replacer 71
	(09951-00750)	Replacer 75
	(09951-00770)	Replacer 77
	(09951-00810)	Replacer 81
	09950-70010	Handle Set
	(09951-07150)	Handle 150
	(09951-07200)	Handle 200

RECOMMENDED TOOLS

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

MF2A TRANSFER - RECOMMENDED TOOLS SPECIFICATION

	09040-00011	Hexagon Wrench Set
	(09043-20060)	Socket Hexagon Wrench 6
	09904-00010	Expander Set
	(09904-00020)	No. 1 Claw
	09905-00013	Snap Ring Pliers
	(09904-00090)	Claw Set

EQUIPMENT

MF2A TRANSFER - EQUIPMENT CHART

Torque wrench	
Dial gauge with magnetic base	
V-block	
Universal engine lifter	

LUBRICANT

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

MF2A TRANSFER - LUBRICANT SPECIFICATION

Item	Capacity	Classification
Transfer oil	0.9 liters (0.95 US qts, 0.79 Imp.qts)	Hypoid gear oil SAE 90 (GL-5)

SSM

MF2A TRANSFER - SSM CHART

08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)
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PROPELLER SHAFT

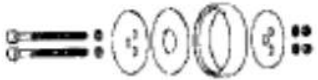
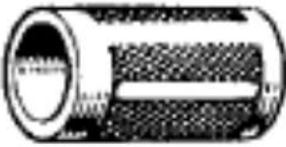
SST

PROPELLER SHAFT - SST SPECIFICATION

	09223-00010	Cover & Seal Replacer
	09308-00010	Oil Seal Puller
	09308-10010	Oil Seal Puller
	09316-12010	Transfer Bearing Replacer
	09330-00021	Companion Flange Holding Tool
	09504-22011	Differential Side Bearing Replacer

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

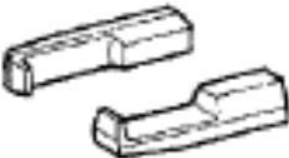
		
	09506-30012	Differential Drive Pinion Rear Bearing Cone Replacer
	09550-00032	Replacer
	09554-22010	Differential Oil Seal Replacer
	09556-22010	Drive Pinion Front Bearing Remover
	09570-24011	Differential Mounting Cushion Remover & Replacer
	09636-20010	Upper Ball Joint Dust Cover Replacer
	09930-00010	Drive Shaft Nut Chisel

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

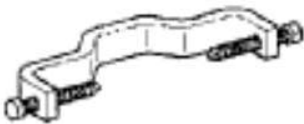
	09950-00020	Bearing Remover
	09950-30012	Puller A Set
	(09951-03010)	Upper Plate
	(09953-03010)	Center Bolt
	(09954-03010)	Arm
	(09955-03030)	Lower Plate 130
	(09956-03020)	Adapter 18
	09950-40011	Puller B Set

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00240)	Replacer 24
	(09951-04020)	Hanger 200
	(09952-04010)	Slide Arm
	(09953-04030)	Center Bolt 200
	(09954-04010)	Arm 25
	(09955-04061)	Claw No. 6
	(09957-04010)	Attachment

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	(09958-04011)	Holder
	09950-60010	Replacer Set
	(09951-00360)	Replacer 36
	(09951-00620)	Replacer 62
	09950-60020	Replacer Set No. 2
	(09951-00710)	Replacer 71

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09950-70010	Handle Set
	(09951-07150)	Handle 150
	(09951-07200)	Handle 200

RECOMMENDED TOOLS

PROPELLER SHAFT - RECOMMENDED TOOLS SPECIFICATION

	09010-3C100	Set, Hexagon Wrench
	(09013-6C110)	Socket Hexagon 6mm

EQUIPMENT

PROPELLER SHAFT - EQUIPMENT CHART

Torque wrench	
Dial indicator magnetic base	
Dial indicator	
V-block	

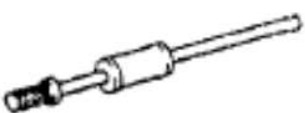
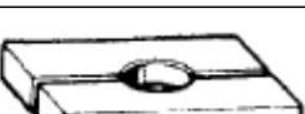
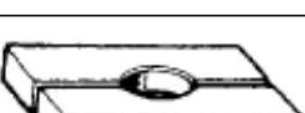
DRIVE SHAFT

SST

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

DRIVE SHAFT - SST SPECIFICATION

	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
	09527-21011	Rear Axle Shaft Bearing Remover
	09527-30010	Rear Axle Shaft Bearing Remover
	09608-16042	Front Hub Bearing Adjusting Tool
	(09608-02021)	Bolt & Nut

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

		
	(09608-02041)	Retainer
	09726-40010	Lower Control Shaft Bearing Replacer
	09930-00010	Drive Shaft Nut Chisel
	09950-00020	Bearing Remover

RECOMMENDED TOOLS

DRIVE SHAFT - RECOMMENDED TOOLS SPECIFICATION

	09011-2C590	Socket Wrench 30mm/12p
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2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09904-00010	Expander Set
	(09904-00040)	No. 3 Claw
	09905-00012	Snap Ring No. 1 Expander

EQUIPMENT

DRIVE SHAFT - EQUIPMENT CHART

Torque wrench	
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LUBRICANT

FRONT DRIVE SHAFT (for 2GR-FE)

FRONT DRIVE SHAFT (FOR 2GR-FE) - LUBRICANT SPECIFICATION

Item	Capacity	
Outboard joint grease	2WD	170 to 190 g (6.0 to 6.7 oz.)
	4WD	100 to 120 g (3.5 to 4.2 oz.)
Inboard joint grease	2WD	155 to 175 g (5.5 to 6.2 oz.)
	4WD	106 to 126 g (3.7 to 4.4 oz.)

FRONT DRIVE SHAFT (for 1AR-FE)

FRONT DRIVE SHAFT (FOR 1AR-FE) - LUBRICANT SPECIFICATION

Item	Capacity
Outboard joint grease	205 to 215 g (7.2 to 7.5 oz.)
Inboard joint grease	175 to 185 g (6.2 to 6.5 oz.)

REAR DRIVE SHAFT (for 2GR-FE)

REAR DRIVE SHAFT (FOR 2GR-FE) - LUBRICANT SPECIFICATION

Item	Capacity	
Outboard joint grease	4WD	95 to 105 g (3.4 to 3.7 oz.)
Inboard joint grease	4WD	125.5 to 135.5 g (4.4 to 4.7 oz.)

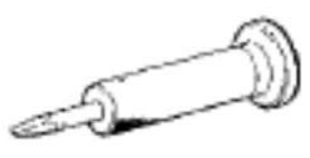
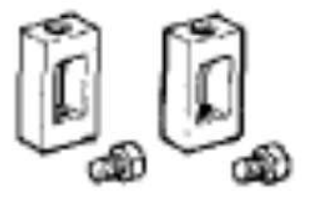
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

DIFFERENTIAL

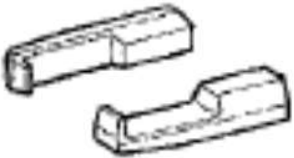
SST

DIFFERENTIAL - SST SPECIFICATION

	09316-60011	Transmission & Transfer Bearing Replacer
	09325-20010	Transmission Oil Plug
	09330-00021	Companion Flange Holding Tool
	09370-50010	Drive Line Angle Gauge
	09930-00010	Drive Shaft Nut Chisel
	09950-40011	Puller B Set
	(09951-04020)	Hanger 200
	(09952-04010)	Slide Arm
	(09953-04030)	Center Bolt 200

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	(09954-04010)	Arm 25
	(09955-04061)	Claw No. 6
	(09957-04010)	Attachment
	(09958-04011)	Holder

RECOMMENDED TOOLS

DIFFERENTIAL - RECOMMENDED TOOLS SPECIFICATION

	09010-3C100	Set, Hexagon Wrench
	(09013-6C130)	Socket Hexagon 10mm

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09011-12301	Socket Wrench 30 mm
	09044-00020	"TORX" Socket E10

EQUIPMENT

DIFFERENTIAL - EQUIPMENT CHART

Torque wrench	
Dial indicator	
Micrometer	
Vernier caliper	

LUBRICANT

DIFFERENTIAL - LUBRICANT SPECIFICATION

Item	Capacity	Classification
Differential oil	0.90 +/- 0.05 liters (0.95 +/- 0.05 US qts, 0.75 +/- 0.04 Imp.qts)	Hypoid gear oil API GL-5 Above -18°C (0°F) SAE 90 Below -18°C (0°F) SAE 80W or 80W-90

SSM

DIFFERENTIAL - SSM CHART

08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)
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AXLE

SST

AXLE - SST SPECIFICATION

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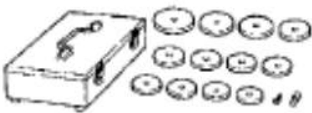
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09316-60011	Transmission & Transfer Bearing Replacer
	(09316-00011)	Replacer Pipe
	09520-00031	Rear Axle Shaft Puller
	09555-55010	Differential Drive Pinion Bearing Replacer
	09608-32010	Steering Knuckle Oil Seal Replacer
	09628-10011	Ball Joint Puller
	09950-60010	Replacer Set
	(09951-00430)	Replacer 43

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00500)	Replacer 50
	(09951-00610)	Replacer 61
	(09952-06010)	Adapter
	09950-60020	Replacer Set No. 2
	(09951-00750)	Replacer 75
	(09951-00810)	Replacer 81
	(09952-06010)	Adapter

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	09950-70010	Handle Set
	(09951-07100)	Handle 100

RECOMMENDED TOOLS

AXLE - RECOMMENDED TOOLS SPECIFICATION

	09012-2C540	Deep Socket Wrench 30mm
	09051-1C110	Plastic Hammer 420g
	09051-1C300	Chisel
	09905-00013	Snap Ring Pliers

EQUIPMENT

AXLE - EQUIPMENT CHART

Torque wrench	
Micrometer with magnetic base	

2009 Toyota Highlander Limited
2009 GENERAL INFORMATION Preparation - Highlander

SUSPENSION

SST

SUSPENSION - SST SPECIFICATION

	09502-12010	Differential Bearing Replacer
	09515-21010	Rear Axle Shaft Bearing Replacer
	09515-30010	Rear Wheel Bearing Replacer
	09527-17011	Rear Axle Shaft Bearing Remover
	09710-30050	Suspension Arm Bushing Replacer

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

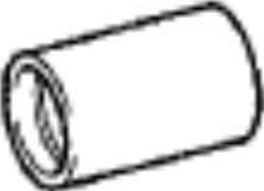
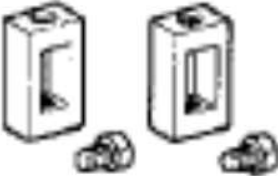
		
	09727-00050	Arm Set B
	09727-30021	Coil Spring Compressor
	(09727-00010)	Bolt Set
	(09727-00021)	Arm Set
	(09727-00031)	Compressor
	09817-33190	Sensor Socket Wrench

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

		
	09830-10010	Bush tool, Front suspension member
	(09830-01010)	Bolt
	(09830-01020)	Nuts
	(09830-01030)	Replacer
	(09830-01040)	Washer

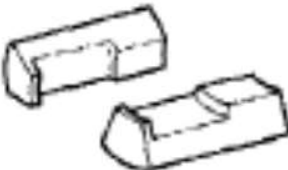
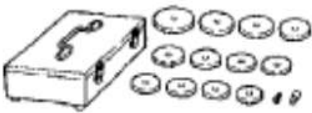
2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09830-01050)	Spacer No.1
	(09830-01060)	Spacer No.2
	09830-36010	Front Mounting Cushion Remover & Replacer
	09950-40011	Puller B Set
	(09951-04020)	Hanger 200
	(09952-04010)	Slide Arm
	(09953-04010)	Center Bolt 100
	(09953-04020)	Center Bolt 150

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	(09954-04010)	Arm 25
	(09955-04011)	Claw No.1
	(09955-04031)	Claw No.3
	(09958-04011)	Holder
	09950-60010	Replacer Set
	(09951-00340)	Replacer 34
	09950-60020	Replacer Set No. 2

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	(09951-00890)	Replacer 89
	09950-70010	Handle Set
	(09951-07100)	Handle 100
	09960-20010	Set Ball Joint Puller
	(09961-02010)	Assy Ball Joint Puller
	(09961-02050)	Spacer A
	09961-00950	Torque Wrench Adapter

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

RECOMMENDED TOOLS

SUSPENSION - RECOMMENDED TOOLS SPECIFICATION

	09040-00011	Hexagon Wrench Set
	(09043-20050)	Socket Hexagon Wrench 5
	(09043-20060)	Socket Hexagon Wrench 6
	09050-00032	Air Drill
	09051-1C110	Plastic Hammer 420g

EQUIPMENT

SUSPENSION - EQUIPMENT CHART

Torque wrench	
Dial indicator with magnetic base	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Angle gauge	
Slide Calipers	
Wooden block	

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

Wheel balancer	
Camber-caster-kingpin gauge	
Drill (Safety equipment: protective goggles, etc.)	Shock absorber disposal

TIRE AND WHEEL

RECOMMENDED TOOLS

TIRE AND WHEEL - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

TIRE AND WHEEL - EQUIPMENT CHART

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

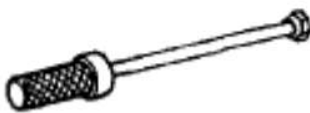
BRAKE CONTROL

SST

BRAKE CONTROL - SST SPECIFICATION

	09213-58013	Crankshaft Pulley Holding Tool
	09214-76011	Crankshaft Pulley Replacer
	09520-00031	Rear Axle Shaft Puller

2009 Toyota Highlander Limited**2009 GENERAL INFORMATION Preparation - Highlander**

	(09520-00040)	Shocker
	(09521-00010)	Rod with Grip
	09521-00020	Drive Shaft Boot Clamping Tool
	09843-18040	Diagnosis Check Wire No. 2
	09950-00020	Bearing Remover

RECOMMENDED TOOLS**BRAKE CONTROL - RECOMMENDED TOOLS SPECIFICATION**

	09017-1C100	Union Nut Wrench 10mm
	09017-1C110	Union Nut Wrench 12mm

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09082-00040	TOYOTA Electrical Tester
	09083-00170	Test Lead set No.2

EQUIPMENT

BRAKE CONTROL - EQUIPMENT CHART

Torque wrench	
V-block	

BRAKE

SST

BRAKE - SST SPECIFICATION

	09330-00021	Companion Flange Holding Tool
	09737-00020	Brake Booster Push Rod Wrench

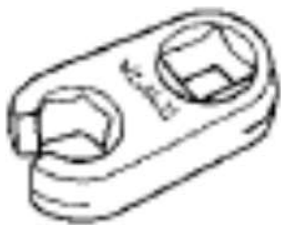
RECOMMENDED TOOLS

BRAKE - RECOMMENDED TOOLS SPECIFICATION

	09017-1C100	Union Nut Wrench 10mm

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09017-1C110	Union Nut Wrench 12mm
	09051-1C410	Pin Punch 5

EQUIPMENT

BRAKE - EQUIPMENT CHART

Vinyl tape	
Ruler	
Micrometer with magnetic base	
Torque wrench	

LUBRICANT

BRAKE - LUBRICANT SPECIFICATION

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

PARKING BRAKE

EQUIPMENT

PARKING BRAKE - EQUIPMENT CHART

Torque wrench	
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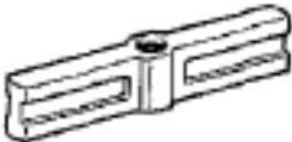
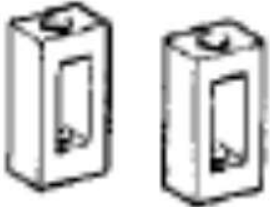
STEERING COLUMN

SST

STEERING COLUMN - SST SPECIFICATION

	09950-50013	Puller C Set
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2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

		
	(09951-05010)	Hanger 150
	(09952-05010)	Slide Arm
	(09953-05020)	Center Bolt 150
	(09954-05021)	Claw No. 2

RECOMMENDED TOOLS

STEERING COLUMN - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

STEERING COLUMN - EQUIPMENT CHART

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2009 Toyota Highlander Limited	
2009 GENERAL INFORMATION Preparation - Highlander	

Torque wrench	
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POWER STEERING

SST

POWER STEERING - SST SPECIFICATION

	09612-00012	Rack & Pinion Steering Rack Housing Stand
	09616-00011	Steering Worm Bearing Adjusting Socket
	09960-20010	Set Ball Joint Puller
	(09961-02010)	Assy Ball Joint Puller
	(09961-02060)	Spacer B

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

RECOMMENDED TOOLS

POWER STEERING - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

POWER STEERING - EQUIPMENT CHART

Torque wrench	
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AIR CONDITIONING

SST

AIR CONDITIONING - SST SPECIFICATION

	09985-20010	Set, Air Consitioner Service Tool
	(09985-02010)	Gauge, Refrigerant Charging
	(09985-02050)	Hose, Refrigerant Charging
	(09985-02060)	Hose, Refrigerant Charging

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

		
	(09985-02070)	Hose, Refrigerant Charging
	(09985-02080)	Hose Packin, Refrigerant Charging
	(09985-02090)	Coupler, Quick
	(09985-02110)	Coupler, Quick

2009 Toyota Highlander Limited		
2009 GENERAL INFORMATION Preparation - Highlander		

		
	(09985-02130)	Valve, Refrigerant Drum Service
	(09985-02140)	Valve Packing Refrigerant Drum Service
	(09985-02150)	Joint, T
	95047-10040	Magnetic Clutch Stopper (DENSO Part No.)

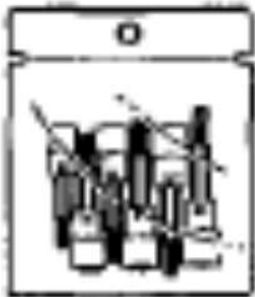
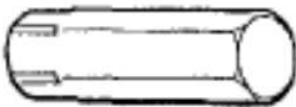
RECOMMENDED TOOLS

AIR CONDITIONING - RECOMMENDED TOOLS SPECIFICATION

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2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09010-3C100	Set, Hexagon Wrench
	(09013-6C140)	Socket Hexagon 12mm
	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C130)	"TORX" Socket Wrench T-type T40
	09013-1C530	"TORX" Socket Wrench E-type E8
	09013-7C120	Straight Hexagon 14mm
	09013-7C400	Wrench Set

2009 Toyota Highlander Limited

2009 GENERAL INFORMATION Preparation - Highlander

	09061-1C300	Set, Moulding Remover
	(09061-1C340)	Remover D, Moulding
	09082-00050	TOYOTA Electrical Tester Set
	09904-00010	Expander Set
	(09904-00050)	No. 4 Claw
HINT: TORX is a registered trademark of Textron Inc.		

EQUIPMENT

AIR CONDITIONING - EQUIPMENT CHART

Vinyl tape	
Gas leak detector	
Dial indicator with magnetic base	
Torque wrench	
Clip remover	

LUBRICANT

AIR CONDITIONING - LUBRICANT SPECIFICATION

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

SUPPLEMENTAL RESTRAINT SYSTEM

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SST

SUPPLEMENTAL RESTRAINT SYSTEM - SST SPECIFICATION

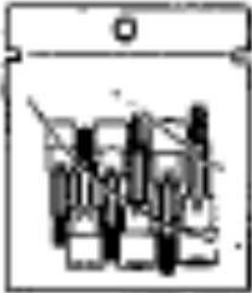
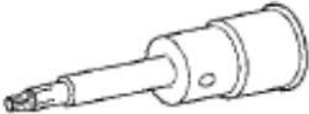
	09082-00700	SRS Airbag. Deployment Tool
	09082-00770	Airbag Deployment Wire Sub-harness No. 5
	09082-00780	Airbag Deployment Wire Sub-harness No. 6
	09082-00802	Airbag Deployment Wire Sub-Harness No. 8
	(09082-10801)	Wire A
	(09082-20801)	Wire B
	(09082-30801)	Wire C
	09082-00820	Airbag Deployment Wire Sub-Harness No. 10
	09843-18040	Diagnosis Check Wire No. 2
	09843-18061	SRS Check Wire

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RECOMMENDED TOOLS

SUPPLEMENTAL RESTRAINT SYSTEM - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C120)	"TORX" Socket Wrench T-type T30
	09082-00040	TOYOTA Electrical Tester
	09083-00170	Test Lead set No.2
HINT: "TORX" is a registered trademark of Textron Inc.		

EQUIPMENT

SUPPLEMENTAL RESTRAINT SYSTEM - EQUIPMENT CHART

Torque wrench	
Battery	
Tape	
Feeler gauge	
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	

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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	Airbag disposal
Cardboard Box	Airbag disposal
Plastic bag	Airbag disposal

SEAT BELT

SST

SEAT BELT - SST SPECIFICATION

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

RECOMMENDED TOOLS

SEAT BELT - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

SEAT BELT - EQUIPMENT CHART

Hog ring	
Hog ring pliers	
Torque wrench	
Battery	
Plastic bag	

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THEFT DETERRENT SYSTEM

RECOMMENDED TOOLS

THEFT DETERRENT SYSTEM - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

THEFT DETERRENT SYSTEM - EQUIPMENT CHART

Torque wrench	
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ENGINE IMMOBILISER

SST

ENGINE IMMOBILISER - SST SPECIFICATION

	09843-18040	Diagnosis Check Wire No. 2
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RECOMMENDED TOOLS

ENGINE IMMOBILISER - RECOMMENDED TOOLS SPECIFICATION

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

EQUIPMENT

ENGINE IMMOBILISER - EQUIPMENT CHART

Torque wrench	
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CRUISE CONTROL

RECOMMENDED TOOLS

CRUISE CONTROL - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

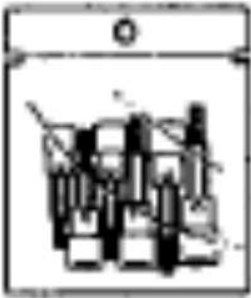
CRUISE CONTROL - EQUIPMENT CHART

Torque wrench	
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LIGHTING

RECOMMENDED TOOLS

LIGHTING - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C120)	"TORX" Socket Wrench T-type T30
	09082-00050	TOYOTA Electrical Tester Set

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EQUIPMENT

LIGHTING - EQUIPMENT CHART

Clip remover	
Torque wrench	
Tire pressure gage	
White paper	
Protective tape	

WIPER AND WASHER

RECOMMENDED TOOLS

WIPER AND WASHER - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

WIPER AND WASHER - EQUIPMENT CHART

Protective tape	
Torque wrench	
Wire brush	
MP grease	

DOOR LOCK

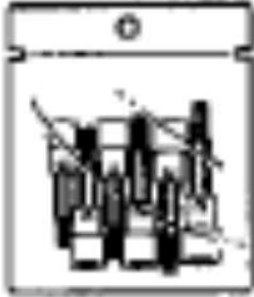
RECOMMENDED TOOLS

DOOR LOCK - RECOMMENDED TOOLS SPECIFICATION

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	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C120)	"TORX" Socket Wrench T-type T30
	09082-00050	TOYOTA Electrical Tester Set

EQUIPMENT

DOOR LOCK - EQUIPMENT CHART

MP grease	
Protective tape	To avoid surface damage
Torque wrench	

METER

RECOMMENDED TOOLS

METER - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

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METER - EQUIPMENT CHART

Torque wrench	
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AUDIO / VISUAL

RECOMMENDED TOOLS

AUDIO / VISUAL - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

AUDIO / VISUAL - EQUIPMENT CHART

Torque wrench	
Double-sided tape	

NAVIGATION

RECOMMENDED TOOLS

NAVIGATION - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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PARK ASSIST / MONITORING

RECOMMENDED TOOLS

PARK ASSIST / MONITORING - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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HORN

RECOMMENDED TOOLS

HORN - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

HORN - EQUIPMENT CHART

Torque wrench	
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GARAGE DOOR OPENER

RECOMMENDED TOOLS

GARAGE DOOR OPENER - RECOMMENDED TOOLS SPECIFICATION

	09061-1C300	Set, Moulding Remover
	(09061-1C340)	Remover D, Moulding

OTHER SYSTEM

RECOMMENDED TOOLS

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OTHER SYSTEM - RECOMMENDED TOOLS SPECIFICATION

	09082-00050	TOYOTA Electrical Tester Set
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EQUIPMENT

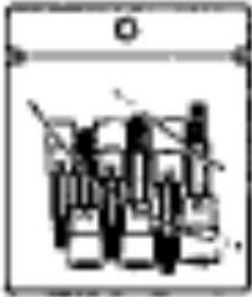
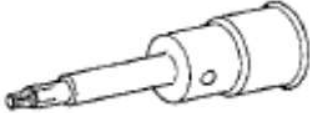
OTHER SYSTEM - EQUIPMENT CHART

Protective tape	To avoid surface damage
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WINDSHIELD / WINDOWGLASS

RECOMMENDED TOOLS

WINDSHIELD / WINDOWGLASS - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C110)	"TORX" Socket Wrench T-type T25
	09082-00050	TOYOTA Electrical Tester Set

EQUIPMENT

WINDSHIELD / WINDOWGLASS - EQUIPMENT CHART

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

SSM

WINDSHIELD / WINDOWGLASS - SSM CHART

Toyota Genuine Windshield Glass Adhesive or equivalent	
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MIRROR

RECOMMENDED TOOLS

MIRROR - RECOMMENDED TOOLS SPECIFICATION

	09042-00030	"TORX" Socket T20
	09082-00050	TOYOTA Electrical Tester Set

EQUIPMENT

MIRROR - EQUIPMENT CHART

Torque wrench	
Protective tape	

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INSTRUMENT PANEL

RECOMMENDED TOOLS

INSTRUMENT PANEL - RECOMMENDED TOOLS SPECIFICATION

	09061-1C200	Moulding Remover
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EQUIPMENT

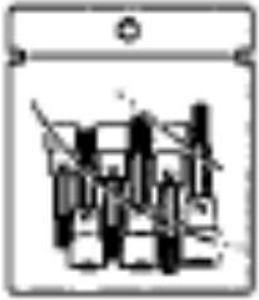
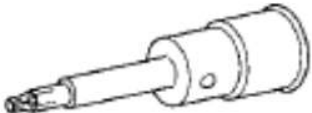
INSTRUMENT PANEL - EQUIPMENT CHART

Torque wrench	
Protective tape	
Clip remover	

SEAT

RECOMMENDED TOOLS

SEAT - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C140)	"TORX" Socket Wrench T-type T45
	09082-00040	TOYOTA Electrical Tester

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(09083-00150)

Test Lead Set

HINT:

"Torx" is a registered trademark of Textron Inc.

EQUIPMENT

SEAT - EQUIPMENT CHART

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

ENGINE HOOD / DOOR

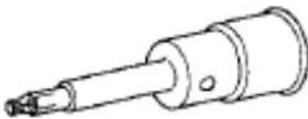
SST

ENGINE HOOD / DOOR - SST SPECIFICATION

	09812-00010	Door Hinge Set Bolt Wrench
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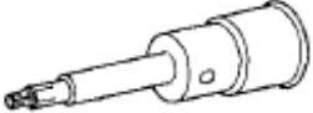
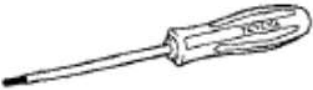
RECOMMENDED TOOLS

ENGINE HOOD / DOOR - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C120)	"TORX" Socket Wrench T-type T30

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	(09013-1C130)	"TORX" Socket Wrench T-type T40
	09041-2C220	"TORX" Driver T25H
	09082-00050	TOYOTA Electrical Tester Set
HINT: TORX is a registered trademark of Textron Inc.		

EQUIPMENT

ENGINE HOOD / DOOR - EQUIPMENT CHART

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

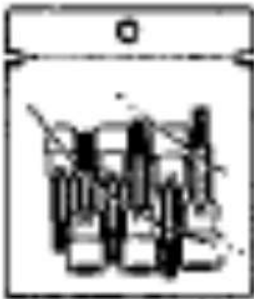
EXTERIOR

RECOMMENDED TOOLS

EXTERIOR - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
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	(09013-1C120)	"TORX" Socket Wrench T-type T30
	09013-7C400	Wrench Set
	09061-1C300	Set, Moulding Remover
	(09061-1C340)	Remover D, Moulding

HINT:
"Torx" is a registered trademark of Textron Inc.

EQUIPMENT

EXTERIOR - EQUIPMENT CHART

Torque wrench	
Protective tape	To avoid surface damage
Clip remover	
Meat light	
Squeegee	

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INTERIOR

RECOMMENDED TOOLS

INTERIOR - RECOMMENDED TOOLS SPECIFICATION

	09061-1C300	Set, Moulding Remover
	(09061-1C340)	Remover D, Moulding

EQUIPMENT

INTERIOR - EQUIPMENT CHART

Clip remover	
Torque wrench	
Protective tape	
Double-sided tape	
Adhesive tape	

SLIDING ROOF

RECOMMENDED TOOLS

SLIDING ROOF - RECOMMENDED TOOLS SPECIFICATION

	09010-3C120	Set, "TORX" Socket Wrench
	(09013-1C110)	"TORX" Socket Wrench T-type T25

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09082-00050

TOYOTA Electrical Tester Set

HINT.
TORX is a registered trademark of Textron Inc.

EQUIPMENT

SLIDING ROOF - EQUIPMENT CHART

Torque wrench

MULTIPLEX COMMUNICATION

RECOMMENDED TOOLS

MULTIPLEX COMMUNICATION - RECOMMENDED TOOLS SPECIFICATION



09082-00040

TOYOTA Electrical Tester

CAN COMMUNICATION

RECOMMENDED TOOLS

CAN COMMUNICATION - RECOMMENDED TOOLS SPECIFICATION



09082-00050

TOYOTA Electrical Tester Set



(09083-00150)

Test Lead Set