

2005 Toyota RAV4
2005 GENERAL INFORMATION Preparation - RAV4

2005 GENERAL INFORMATION

Preparation - RAV4

MAINTENANCE

EQUIPMENT

EQUIPMENT REFERENCE

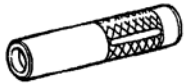
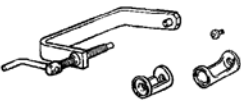
Mirror	Brake hose
Torque wrench	

ENGINE MECHANICAL

SST (SPECIAL SERVICE TOOLS)

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	09201-41020	Valve Stem Oil Seal Replacer	
	09202-00020	Attachment	
	09202-70020	Valve Spring Compressor	
	09213-54015	Crankshaft Pulley Holding Tool	
	09222-30010	Connecting Rod Bushing Remover & Replacer	
	09223-15030	Oil Seal & Bearing Replacer	Crankshaft rear oil seal
	09249-63010	Torque Wrench Adaptor	
	09308-10010	Oil Seal Puller	
	09309-37010	Transmission Bearing Replacer	Crankshaft front oil seal
	09330-00021	Companion Flange Holding Tool	
	09843-18040	Diagnosis Check Wire No.2	
	09950-40011	Puller B Set	

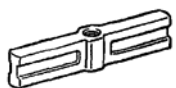
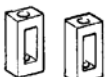
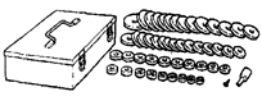
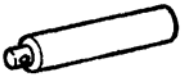
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Fig. 1: Identifying Special Service Tools (1 Of 2)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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	(09957-04010) Attachment	
	09950-50013 Puller C Set	
	(09951-05010) Hanger 150	
	(09952-05010) Slide Arm	
	(09953-05020) Center Bolt 150	
	(09954-05021) Claw No.2	
	09950-60010 Replacer Set	
	(09951-00200) Replacer 20	
	09950-70010 Handle Set	
	(09951-07100) Handle 100	

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Fig. 2: Identifying Special Service Tools (2 Of 2)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

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	09044-00020 Torx Socket E10 .	Stud bolt for drive belt tensioner
	09200-00010 Engine Adjust Kit .	

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Fig. 3: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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EQUIPMENT

EQUIPMENT REFERENCE

Abrasive compound	Valve
Caliper gauge	
CO/HC meter	
Compression gauge	
Connecting rod aligner	
Cylinder gauge	
Dial indicator	
Dye penetrant	
Engine tune-up tester	
Groove cleaning tool	Piston ring groove
Hand held tester	
Heater	
Magnetic finger	
Micrometer	
Pin hole grinder	Piston pin hole of piston
Piston ring compressor	
Piston ring expander	
Plastigage	
Precision straight edge	
Press	
Ridge reamer	Cylinder
Soft brush	
Solvent	
Spring tester	Valve spring
Steel square	Valve spring
Tachometer	

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Thermometer	
Torque wrench	
Valve seat cutter	
V-block	
Vernier calipers	
Wire brush	

SSM (SPECIAL SERVICE MATERIALS)

08826-00080	Seal Packing Black or equivalent (FIPG)	Timing chain cover Cylinder head cover Cylinder head gasket
08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	Union
08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	Flywheel Drive plate
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	Oil pressure switch

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Fig. 4: Identifying SSM (Special Service Materials)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EMISSION CONTROL

EQUIPMENT

EQUIPMENT REFERENCE

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

SSM (SPECIAL SERVICE MATERIALS)

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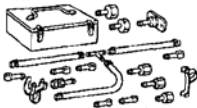
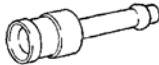
08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	PCV valve
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Fig. 5: Identifying SSM (Special Service Materials)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SFI

SSM (SPECIAL SERVICE TOOLS)

	09268-21010 Fuel Hose Puller	Metallic connector
	09268-41047 Injection Measuring Tool Set	
	(09268-41110) Adaptor	
	(09268-41300) Clamp	
	09268-45014 EFI Fuel Pressure Gauge	
	(09268-41250) T Joint	
	09842-30080 EFI Inspection Wire "H"	Injector
	09843-18040 Diagnosis Check Wire No.2	

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Fig. 6: Identifying SSM (Special Service Tools)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00050 TOYOTA Electrical Tester Set.	
	(09082-00040) TOYOTA Electrical Tester.	
	09258-00030 Hose Plug Set .	Plug for the vacuum hose, fuel hose etc.

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Fig. 7: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

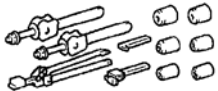
EQUIPMENT

EQUIPMENT REFERENCE

Fuel tube connector (Part No. 23901-22110)	
Graduated cylinder	Injector
OBD II scan tool	
Sound scope	Injector
Torque wrench	
Vacuum gauge	

COOLING

SST (SPECIAL SERVICE TOOLS)

	09230-01010 Radiator Service Tool Set	
	09231-14010 Punch	
	09960-10010 Variable Pin Wrench Set	Water pump
	(09962-01000) Variable Pin Wrench Arm Assy	
	(09963-00600) Pin 6	

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Fig. 8: Identifying SST (Special Service Tools)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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Fig. 9: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Heater	Thermostat
Radiator cap tester	
Thermometer	Thermostat
Torque wrench	
Vernier calipers	

COOLANT

Item		Capacity	Classification
Engine coolant	A/T	6.3 liters (6.7 US qts, 5.6 Imp. qts)	"Toyota Long Life Coolant" or equivalent
	M/T	6.2 liters (6.6 US qts, 5.6 Imp. qts)	

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Fig. 10: Coolant Specification Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SSM (SPECIAL SERVICE MATERIALS)

08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	Water Pump
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Fig. 11: SSM Special Service Materials Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

LUBRICATION

SST (SPECIAL SERVICE TOOLS)

	09032-00100	Oil Pan Seal Cutter	
	09228-06501	Oil Filter Wrench	
	09816-30010	Oil Pressure Switch Socket	

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Fig. 12: Identifying SST Special Service Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09200-00010	Engine Adjust Kit .	
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Fig. 13: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Oil pressure gauge	
Torque wrench	
Straight edge	

LUBRICANT

Item	Capacity	Classification
Engine oil		API grade SL, Energy-Conserving or ILSAC mul-tigrade engine oil. SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather.
Drain and refill		
w/ Oil filter change	3.8 liters (4.0 US qts, 3.3 Imp. qts)	
w/o Oil filter change	3.6 liters (3.8 US qts, 3.2 Imp. qts)	
Dry fill	4.3 liters (4.5 US qts, 3.8 Imp. qts)	

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Fig. 14: Lubricant Specification Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SSM (SPECIAL SERVICE MATERIALS)

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

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Fig. 15: SSM Special Service Materials Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

IGNITION

RECOMMENDED TOOLS

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

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Fig. 16: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Spark plug cleaner	
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STARTING

SST (SPECIAL SERVICE TOOLS)

	09286-46011 Injection Pump Spline Shaft Puller	
	09810-38140 Starter Magnet Switch Nut Wrench 14	
	09820-00031 Alternator Rear Bearing Replacer	

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Fig. 17: Identifying SST Special Service Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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Fig. 18: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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EQUIPMENT

EQUIPMENT REFERENCE

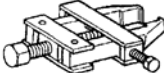
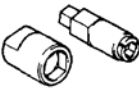
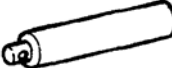
Dial indicator	Commutator
Magnetic finger	Steel ball
Press	Magnetic switch terminal kit part
Pull scale	Brush spring
Sandpaper	Commutator
Torque wrench	
V-block	Commutator
Vernier calipers	Commutator, Brush

CHARGING

SST (SPECIAL SERVICE TOOLS)

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	09249-63010 Torque Wrench Adaptor	Drive belt
	09285-76010 Injection Pump Camshaft Bearing Cone Replacer	
	09286-46011 Injection Pump Spline Shaft Puller	
	09820-00021 Alternator Rear Bearing Puller	
	09820-00031 Alternator Rear Bearing Replacer	
	09820-63011 Alternator Pulley Set Nut Wrench Set	
	09950-60010 Replacer Set	
	(09951-00350) Replacer 35	
	(09951-00530) Replacer 53	
	09950-70010 Handle Set	
	(09951-07100) Handle 100	

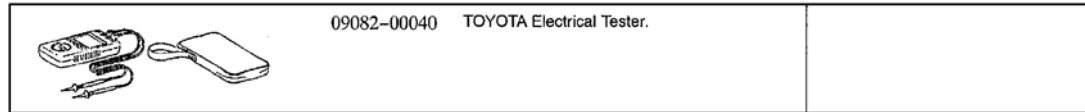
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Fig. 19: Identifying SST Special Service Tools (Charging)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

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Fig. 20: Identifying Recommended Tools

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

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

CLUTCH

SST (SPECIAL SERVICE TOOLS)

	09023-00101 Union Nut Wrench 10mm	CLUTCH RELEASE CYLINDER CLUTCH RELEASE CYLINDER CLUTCH MASTER CYLINDER CLUTCH MASTER CYLINDER
	09301-00210 Clutch Guide Tool	CLUTCH UNIT
	09333-00013 Clutch Diaphragm Spring Aligner	CLUTCH UNIT

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Fig. 21: Identifying SST Special Service Tools (Clutch)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09031-00030 Pin Punch .	
	09905-00013 Snap Ring Pliers .	

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Fig. 22: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Vernier calipers	
Dial indicator	
Torque wrench	

LUBRICANT

LUBRICANT SPECIFICATION CHART

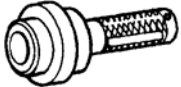
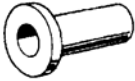
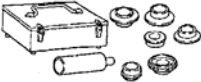
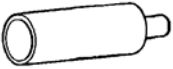
Item	Capacity	Classification
Brake fluid	-	SAE J1703 or FMVSS No. 116 DOT3
Lithium soap base glycol grease	-	-
Clutch spline grease	-	-
Release hub grease	-	-

MANUAL TRANSAXLE

SST (SPECIAL SERVICE TOOLS)

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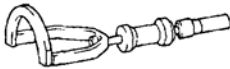
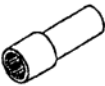
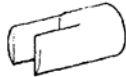
	09223-00010	Cover & Seal Replacer	Center differential case taper roller bearing inner race
	09223-46011	Crankshaft Front Oil Seal Replacer	
	09308-00010	Oil Seal Puller	Output shaft front bearing outer race Center differential lock sleeve
	09309-36010	Transmission Rear Bearing Replacer	Output shaft front bearing outer race Input shaft rear bearing
	09316-20011	Transfer Bearing Replacer	Differential case tapered roller bearing
	09316-60011	Transmission & Transfer Bearing Replacer	
	(09316-00011)	Replacer Pipe	Output shaft front and rear bearing outer race Differential case tapered roller bearing
	(09316-00021)	Replacer "A"	Output shaft front bearing outer race
	(09316-00031)	Replacer "B"	Transmission case oil seal
	(09316-00041)	Replacer "C"	1st gear No. 1 hub sleeve Differential case tapered roller bearing outer race
	(09316-00071)	Replacer "F"	Output shaft front bearing
	09326-20011	Output Shaft Bearing Lock Nut Wrench	Transfer lock nut

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Fig. 23: Identifying SST Special Service Tools (Manual Transaxle) (1 Of 5)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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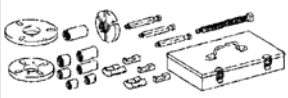
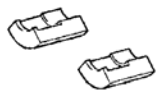
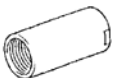
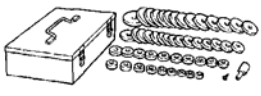
	09387-00010	Transfer Oil Seal Replacer	
	09387-00090	Center Differential Sentring Tool	
	09506-30012	Differential Drive Pinion Rear Bearing Cone Replacer	Output shaft rear bearing
	09506-35010	Differential Drive Pinion Rear Bearing Replacer	No. 2 hub sleeve 3rd gear 1st gear bearing inner race
	09520-10021	Drive Shaft Remover & Replacer	Transfer bearing retainer RH
	09556-16030	Differential Drive Pinion Holding Tool 28	Transfer lock nut
	09564-32011	Differential Preload Adaptor	
	09608-00071	Drive Pinion Rear Bearing Cone Replacer	Input shaft front bearing inner race
	09608-00081	Differential Side Bearing Cone Replacer	Input shaft front oil seal
	09612-65014	Steering Worm Bearing Puller	Input shaft front bearing Differential case tapered roller bearing outer race
	09930-00010	Drive Shaft Nut Chisel	
	(09931-00010)	Handle	Transfer lock nut
	(09931-00020)	Nut Chisel	Transfer lock nut

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Fig. 24: Identifying SST Special Service Tools (Manual Transaxle) (2 Of 5)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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	09950-00020	Bearing Remover	
	09950-00030	Bearing Remover Attachment	Output shaft front bearing Tapered roller bearing (No. 1 and No. 2 differential case side)
	09950-30012	Puller A Set	
	(09951-03010)	Upper Plate	5th driven gear No. 3 clutch hub
	(09953-03010)	Center Bolt	5th driven gear No. 3 clutch hub
	(09954-03010)	Arm	5th driven gear No. 3 clutch hub
	(09955-03011)	Claw No.1	5th driven gear
	(09956-03030)	Adaptor 20	5th driven gear
	09950-40011	Puller B Set	Differential case tapered roller bearing
	(09957-04010)	Attachment	
	09950-60010	Replacer Set	
	(09951-00200)	Replacer 20	Control shaft cover bushing
	(09951-00210)	Replacer 21	Control shaft cover bushing

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Fig. 25: Identifying SST Special Service Tools (Manual Transaxle) (3 Of 5)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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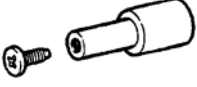
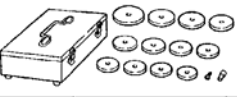
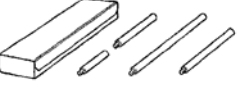
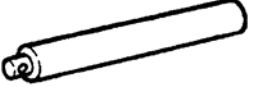
	(09951-00270) Replacer 27	
	(09951-00360) Replacer 36	Transfer tapered roller bearing
	(09951-00370) Replacer 37	
	(09951-00380) Replacer 38	
	(09951-00420) Replacer 42	Center differential case tapered roller bearing inner race
	(09951-00450) Replacer 45	Tapered roller bearing (No. 1 differential case side) Tapered roller bearing (Ring gear side)
	(09951-00520) Replacer 52	Tapered roller bearing (No. 2 differential case side)
	(09951-00530) Replacer 53	Tapered roller bearing (Vehicle speed sensor drive gear side)
	(09951-00540) Replacer 54	
	(09951-00580) Replacer 58	Input shaft front bearing
	(09951-00590) Replacer 59	
	(09951-00600) Replacer 60	Center differential lock sleeve
	(09951-00610) Replacer 61	Transfer front bearing outer race

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Fig. 26: Identifying SST Special Service Tools (Manual Transaxle) (4 Of 5)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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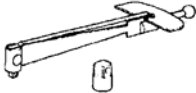
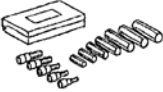
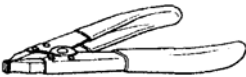
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	(09951-00620) Replacer 62	Transfer bearing outer race
	(09951-00640) Replacer 64	
	(09951-00710) Replacer 71	Transfer bearing outer race LH
	(09952-06010) Adapter	
	09950-60020 Replacer Set No.2	
	(09951-00620) Replacer 82	Center differential case tapered roller bearing outer race RH
	(09951-00790) Replacer 79	Transfer front bearing outer race
	(09951-00810) Replacer 81	Transfer front bearing outer race
	(09951-00890) Replacer 89	Tapered roller bearing outer race (Transaxle case side)
	09950-70010 Handle Set	
	(09951-07150) Handle 150	

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Fig. 27: Identifying SST Special Service Tools (Manual Transaxle) (5 Of 5)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09025-00010 Small Torque Wrench (30 kgf-cm)	
	09031-00030 Pin Punch .	
	09040-00011 Hexagon Wrench Set .	
	09042-00050 Torx Socket T45 .	
	09905-00012 Snap Ring No.1 Expander .	
	09905-00013 Snap Ring Pliers .	

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Fig. 28: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Torx is a registered trademark of Textron Inc

EQUIPMENT

EQUIPMENT REFERENCE

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

LUBRICANT

2005 Toyota RAV4 2005 GENERAL INFORMATION Preparation - RAV4
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Item	Capacity	Classification
Manual transaxle oil (2WD)	2.5 liters (2.6 US qts, 2.8 Imp. qts)	API GL-4 or GL-5 SAE 75W-90
	(4WD) 3.4 liters (3.6 US qts, 3.0 Imp. qts)	API GL-4 or GL-5 SAE 75W-90
Transfer oil	0.9 liters (0.95 US qts, 0.79 Imp. qts)	API GL-5 SAE 90

G02641606

Fig. 29: Lubricant Specification Chart
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SSM (SPECIAL SERVICE MATERIALS)

08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)	Ttransmission case x Transaxle case Ttransmission case x Transmission case cover
08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	

G02641607

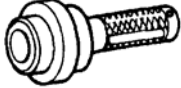
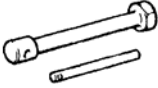
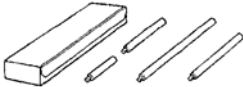
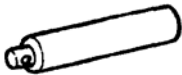
Fig. 30: SSM Special Service Materials Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

AUTOMATIC TRANSAXLE (U140F)

SST (SPECIAL SERVICE TOOLS)

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	09223-15020	Oil Seal & Bearing Replacer	Differential oil seal
	09223-46011	Crankshaft Front Oil Seal Replacer	Differential oil seal
	09308-00010	Oil Seal Puller	Extension gear housing oil seal Differential oil seal
	09325-20010	Transmission Oil Plug	Extension gear housing oil seal
	09350-32014	TOYOTA Automatic Transmission Tool Set	
	(09351-32010)	One-way Clutch Test Tool	
	(09351-32020)	Stator Stopper	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	Differential oil seal

G02641608

Fig. 31: Identifying SST Special Service Tools (Automatic Transaxle) (U140F)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester.	
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G02641609

Fig. 32: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Straight edge	Torque convertor
Dial indicator or dial indicator with magnetic base	Torque convertor and Drive plate
Torque wrench	

LUBRICANT

Item	Capacity	Classification
Automatic transaxle fluid		
Dry fill	8.3 liters (8.8 US qts, 7.3 Imp.qts)	ATF Type T-IV
Drain and refill	3.9 liters (4.1 US qts, 3.4 Imp.qts)	

G02641610

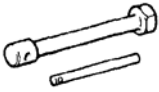
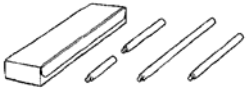
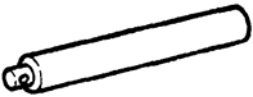
Fig. 33: Lubricant Specification Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

AUTOMATIC TRANSAXLE (U241E)

SST (SPECIAL SERVICE TOOLS)

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	09308-00010 Oil Seal Puller	Differential oil seal
	09350-32014 TOYOTA Automatic Transmission Tool Set	
	(09351-32010) One-way Clutch Test Tool	
	(09351-32020) Stator Stopper	
	09608-10010 Steering Knuckle Oil Seal Replacer	Differential oil seal
	09608-32010 Steering Knuckle Oil Seal Replacer	Differential oil seal
	09950-70010 Handle Set	
	(09951-07150) Handle 150	Differential oil seal

G02641611

Fig. 34: Identifying SST Special Service Tools (Automatic Transaxle (U241E))
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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G02641612

Fig. 35: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Straight edge	Torque converter
Dial indicator or dial indicator with magnetic base	Torque converter and Drive plate

Torque wrench	
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LUBRICANT

Item	Capacity	Classification
Automatic transaxle fluid		
Dry fill	8.6 liters (9.1 US qts, 7.6 Imp.qts)	ATF Type T-IV
Drain and refill	3.3 liters (3.5 US qts, 2.9 Imp.qts)	

G02641613

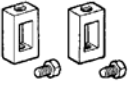
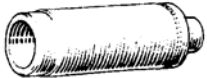
Fig. 36: Lubricant Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

PROPELLER SHAFT

SST (SPECIAL SERVICE TOOLS)

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	09325-20010 Transmission Oil Plug	Oil Leakage prevention
	09950-40011 Puller B Set	Universal joint flange
	(09951-04020) Hanger 200	
	(09952-04010) Slide Arm	
	(09953-04030) Center Bolt 200	
	(09954-04010) Arm 25	
	(09955-04061) Claw No.6	
	(09958-04011) Holder	
	09226-10010 Crankshaft Front & Rear Bearing Replacer	Dust cover

G02641614

Fig. 37: Identifying SST Special Service Tools (Propeller Shaft)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09040-00011 Hexagon Wrench Set .	
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G02641615

Fig. 38: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Dial indicator	
Torque Wrench	

SUSPENSION AND AXLE

SST (SPECIAL SERVICE TOOLS)

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

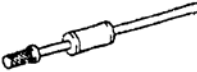
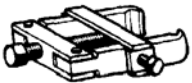
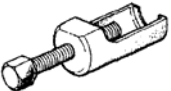
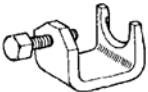
	09308-10010	Oil Seal Puller	Rear Differential
	09309-36010	Transmission Rear Bearing Replacer	Rear Drive Shaft
	09316-20011	Transfer Bearing Replacer	Rear Drive Shaft
	09330-00021	Companion Flange Holding Tool	Rear Differential
	09504-22012	Differential Side Bearing Replacer	Rear Differential
	09506-30012	Differential Drive Pinion Rear Bearing Cone Replacer	Rear Differential
	09520-00031	Rear Axle Shaft Puller	Front Axle Hub Rear Axle Hub
	(09520-00040)	Shocker	
	(09521-00010)	Attachment	
	(09521-00020)	Rod with Grip	
	09520-01010	Drive Shaft Remover Attachment	Front Drive Shaft
	09520-24010	Differential Side Gear Shaft Puller	Front Drive Shaft Rear Differential

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Fig. 39: Identifying SST Special Service Tools (Suspension And Axle) (1 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

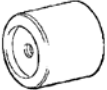
	(09520-04010) Attachment	
	(09520-32040) Shocker Set	
	09527-10011 Rear Axle Shaft Bearing Remover	Rear Axle Hub
	09527-17011 Rear Axle Shaft Bearing Remover	Front Axle
	09550-00032 Replacer	Rear Differential
	09554-22010 Differential Oil Seal Replacer	Rear Differential
	09556-22010 Drive Pinion Front Bearing Remover	Rear Differential
	09608-16042 Front Hub Bearing Adjusting Tool	Front Drive Shaft Rear Drive Shaft
	(09608-02021) Bolt & Nut	
	(09608-02041) Retainer	
	09608-32010 Steering Knuckle Oil Seal Replacer	Front Axle
	09610-20012 Pitman Arm Puller	Front Axle
	09628-10011 Ball Joint Puller	Front Wheel Hub Bolt Rear Wheel Hub Bolt

G02641617

Fig. 40: Identifying SST Special Service Tools (Suspension And Axle) (2 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

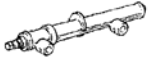
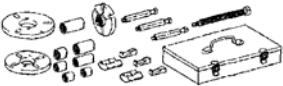
	09628-62011	Ball Joint Puller	Front Lower Ball Joint
	09649-17010	Steering Knuckle Tool	Rear Suspension
	09710-04081	Base	Front Drive Shaft
	09710-04101	Base	Rear Axle Hub
	09710-22021	Front Suspension Bushing Tool Set	Rear Differential
	(09710-01031)	Upper Arm Bushing Replacer	
	09710-26011	Front Suspension Bushing Tool Set	Front Lower Suspension Arm
	(09710-05081)	Rear Base	
	09710-30021	Suspension Bushing Tool Set	Front Lower Suspension Arm
	(09710-03061)	Bushing Remover Base	
	09710-30050	Suspension Arm Bushing Replacer	Rear Suspension
	09727-30021	Coil Spring Compressor	Front Suspension
	(09727-00010)	Bolt Set	

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Fig. 41: Identifying SST Special Service Tools (Suspension And Axle) (3 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

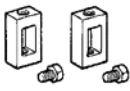
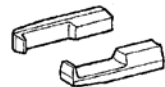
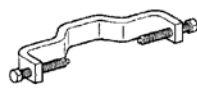
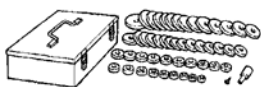
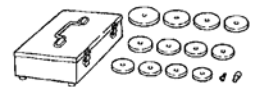
	(09727-00021) Arm Set	
	(09727-00031) Compressor	
	09729-22031 Front Spring Upper Seat Holder	Front Suspension
	09930-00010 Drive Shaft Nut Chisel	Front Drive Shaft
	09950-00020 Bearing Remover	Front Drive Shaft Rear Axle Hub Rear Differential
	09950-30012 Puller A Set	Rear Differential
	(09951-03010) Upper Plate	
	(09953-03010) Center Bolt	
	(09954-03010) Arm	
	(09955-03040) Lower Plate 150	
	(09956-03020) Adapter 18	
	09950-40011 Puller B Set	Front Axle Rear Axle
	(09951-04020) Hanger 200	

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Fig. 42: Identifying SST Special Service Tools (Suspension And Axle) (4 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

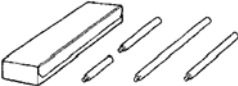
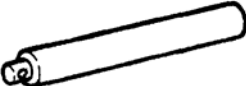
2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	(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	Front Axle Front Drive Shaft
	(09951-00370) Replacer 37	Front Axle Rear Axle
	(09951-00540) Replacer 54	Front Axle
	09950-60020 Replacer Set No.2	
	(09951-00680) Replacer 68	Rear Axle Hub
	(09951-00710) Replacer 71	Rear Differential
	(09951-00720) Replacer 72	Front Drive Shaft

G02641620

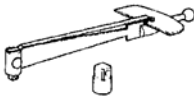
Fig. 43: Identifying SST Special Service Tools (Suspension And Axle) (5 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

	(09951-00790) Replacer 79	Rear Differential
	09950-70010 Handle Set	Front Drive Shaft Front Axle Front Suspension Rear Differential
	(09951-07150) Handle 150	

G02641621

Fig. 44: Identifying SST Special Service Tools (Suspension And Axle) (6 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

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

G02641622

Fig. 45: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Dial indicator with magnetic base	
Drill	
Micrometer	
Torque wrench	

LUBRICANT

2005 Toyota RAV4
2005 GENERAL INFORMATION Preparation - RAV4

Item	Capacity	Classification
Front drive shaft		
Outboard joint grease (Color=Yellow)	190 – 200 g (6.8 – 7.1 oz.)	
Inboard joint grease (Color=Ocher Yellow)	185 – 195 g (6.6 – 7.0 oz.)	
Rear drive shaft		
Outboard joint grease (Color=Black)	100 – 100 g (3.5 – 4.2 oz.)	
Inboard joint grease (Color=Yellow)	180 – 190 g (6.3 – 6.7 oz.)	
Rear differential		
Differential oil	0.9 liters (1.0 US qts, 0.8 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

G02641623

Fig. 46: Lubricant Specification Chart
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SSM (SPECIAL SERVICE MATERIALS)

08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)	Differential Carrier X Cover
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G02641624

Fig. 47: SSM Special Service Materials Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

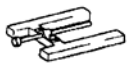
BRAKE

SST (SPECIAL SERVICE TOOLS)

cardiagn.com

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

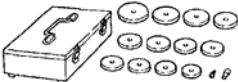
	09023-00101 Union Nut Wrench 10mm	ABS & VSC ACTUATOR ABS ACTUATOR REAR DRUM BRAKE BRAKE MASTER CYLINDER BRAKE MASTER CYLINDER BRAKE MASTER CYLINDER
	09520-00031 Rear Axle Shaft Puller	REAR SPEED SENSOR REAR SPEED SENSOR
	(09520-00040) Shocker	REAR SPEED SENSOR REAR SPEED SENSOR
	(09521-00020) Rod with Grip	REAR SPEED SENSOR REAR SPEED SENSOR
	09527-10011 Rear Axle Shaft Bearing Remover	REAR SPEED SENSOR
	09703-30010 Brake Shoe Return Spring Tool	REAR DRUM BRAKE
	09709-29018 LSPV Gauge Set	PROPORTIONING VALVE (P VALVE)
	09710-04101 Base	REAR SPEED SENSOR
	09717-20010 Brake Shoe Return Spring Remover	PARKING BRAKE
	09718-00010 Shoe Hold Down Spring Driver	REAR DRUM BRAKE REAR DRUM BRAKE
	09718-20010 Brake Shoe Return Spring Replacer	PARKING BRAKE
	09737-00011 Brake Booster Push Rod Gauge	BRAKE BOOSTER ASSEMBLY BRAKE BOOSTER ASSEMBLY

G02641625

Fig. 48: Identifying SST Special Service Tools (Brake) (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	09737-00020 Brake Booster Push Rod Wrench	BRAKE BOOSTER ASSEMBLY
	09950-00020 Bearing Remover	REAR SPEED SENSOR
	09950-60020 Replacer Set No.2	REAR SPEED SENSOR
	(09951-00680) Replacer 68	REAR SPEED SENSOR

G02641626

Fig. 49: Identifying SST Special Service Tools (Brake) (2 Of 2)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09905-00013 Snap Ring Pliers .	Master cylinder
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G02641627

Fig. 50: Identifying Recommended Tools

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Brake drum gauge	
Dial indicator	Brake disc
Micrometer	Brake disc
Ruler	Brake pad and Brake shoe
Torque wrench	

LUBRICANT

LUBRICANT SPECIFICATIONS

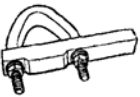
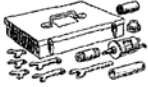
Item	Capacity	Classification
Brake fluid	-	SAE J1703 or FMVSS No. 116 DOT 3

STEERING

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

SST (SPECIAL SERVICE TOOLS)

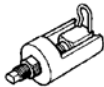
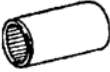
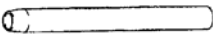
	09023-12701 Union Nut Wrench 17mm	POWER STEERING GEAR POWER STEERING GEAR
	09023-38201 Union Nut Wrench 12mm	POWER STEERING GEAR
	09249-63010 Torque Wrench Adaptor	POWER STEERING VANE PUMP POWER STEERING VANE PUMP POWER STEERING VANE PUMP
	09608-04031 Front Hub Inner Bearing Cone Replacer	TILT STEERING COLUMN
	09612-00012 Rack & Pinion Steering Rack Housing Stand	POWER STEERING GEAR
	(09612-07210) Collet Setting Pipe No.1	POWER STEERING GEAR
	(09612-07220) Collet Setting Pipe No.2	POWER STEERING GEAR
	09612-22011 Tilt Handle Bearing Replacer	POWER STEERING GEAR
	09612-24014 Steering Gear Housing Overhaul Tool Set	POWER STEERING GEAR
	(09613-22011) Steering Rack Shaft Bushing Puller	POWER STEERING GEAR
	09612-70100 Power Steering Oil Seal Remover Set	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR
	(09612-07130) Collet No.3	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR

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Fig. 51: Identifying SST Special Service Tools (Steering) (1 Of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

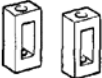
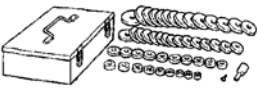
	(09612-07210) Collet Setting Pipe No.1	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR
	(09612-07220) Collet Setting Pipe No.2	POWER STEERING GEAR POWER STEERING GEAR
	(09612-07230) Shaft	POWER STEERING GEAR POWER STEERING GEAR
	(09612-07240) Collar	POWER STEERING GEAR POWER STEERING GEAR
	09613-12010 Power Steering Control Valve Puller	POWER STEERING GEAR
	09616-00011 Steering Worm Bearing Adjusting Socket	POWER STEERING GEAR POWER STEERING GEAR
	09631-12071 Steering Rack Oil Seal Test Tool	POWER STEERING GEAR
	(09633-00010) Packing	POWER STEERING GEAR
	09631-20081 Seal Ring Tool	POWER STEERING GEAR
	09631-20102 Steering Rack Cover "H"	POWER STEERING GEAR POWER STEERING GEAR
	09631-20120 Cylinder End Stopper Nut Wrench	POWER STEERING GEAR POWER STEERING GEAR
	09640-10010 Power Steering Pressure Gauge Set	POWER STEERING FLUID POWER STEERING FLUID
	(09641-01010) Gauge Assy	POWER STEERING FLUID POWER STEERING FLUID

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Fig. 52: Identifying SST Special Service Tools (Steering) (2 Of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

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	(09641-01030) Attachment B	POWER STEERING FLUID POWER STEERING FLUID
	(09641-01060) Attachment E	POWER STEERING FLUID POWER STEERING FLUID
	09922-10010 Variable Open Wrench	POWER STEERING GEAR POWER STEERING GEAR
	09950-50013 Puller C Set	TILT STEERING COLUMN
	(09951-05010) Hanger 150	TILT STEERING COLUMN
	(09952-05010) Slide Arm	TILT STEERING COLUMN
	(09953-05020) Center Bolt 150	TILT STEERING COLUMN
	(09954-05021) Claw No.2	TILT STEERING COLUMN
	09950-60010 Replacer Set	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING VANE PUMP
	(09951-00180) Replacer 18	POWER STEERING GEAR
	(09951-00210) Replacer 21	POWER STEERING GEAR
	(09951-00250) Replacer 25	POWER STEERING GEAR
	(09951-00280) Replacer 28	POWER STEERING VANE PUMP

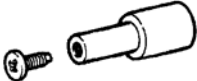
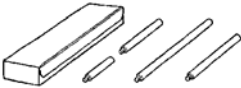
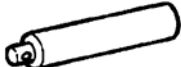
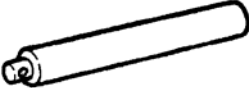
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Fig. 53: Identifying SST Special Service Tools (Steering) (3 Of 4)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2005 Toyota RAV4

2005 GENERAL INFORMATION Preparation - RAV4

	(09951-00330) Replacer 33	POWER STEERING GEAR
	(09951-00340) Replacer 34	POWER STEERING GEAR
	(09951-00490) Replacer 49	POWER STEERING GEAR POWER STEERING GEAR
	(09952-06010) Adapter	POWER STEERING GEAR POWER STEERING GEAR
	(09951-00350) Replacer 35	POWER STEERING GEAR
	09950-70010 Handle Set	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING VANE PUMP
	(09951-07100) Handle 100	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR POWER STEERING VANE PUMP
	(09951-07150) Handle 150	POWER STEERING GEAR POWER STEERING GEAR
	(09951-07360) Handle 360	POWER STEERING GEAR POWER STEERING GEAR POWER STEERING GEAR

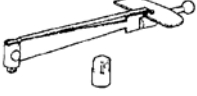
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Fig. 54: Identifying SST Special Service Tools (Steering) (4 Of 4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

2005 Toyota RAV4

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	09025-00010 Torque Wrench (30 kgf-cm)	PS vane pump PS gear
	09040-00011 Hexagon Wrench Set .	PS gear
	09042-00010 Torx Socket T30 .	Tilt steering column
	09904-00010 Expander Set .	
	(09904-00020) No. 1 Claw	Tilt steering column
	09905-00013 Snap Ring Pliers .	PS gear

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Fig. 55: Identifying Recommended Tools

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Torx is a registered trademark of Textron Inc.

EQUIPMENT

EQUIPMENT REFERENCE

Caliper gauge	PS vane pump
Centering punch	Tilt steering column
Dial indicator	PS gear
Drill	Tilt steering column
Feeler gauge	PS vane pump
Micrometer	PS vane pump
Screw extractor	Tilt steering column
Torque wrench	
Vernier Calipers	PS vane pump

LUBRICANT

2005 Toyota RAV4

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Item	Capacity	Classification
Power steering fluid (Total)	0.71 liters (0.75 US qts, 0.62 Imp. qts)	ATF DEXRON® II or III

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Fig. 56: Lubricant Specification Chart

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SSM (SPECIAL SERVICE MATERIALS)

08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	PS gear
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Fig. 57: SSM Special Service Materials Specification

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SUPPLEMENTAL RESTRAINT SYSTEM

SST (SPECIAL SERVICE TOOLS)

	09082-00700	SRS Airbag Deployment Tool	
	09082-00750	Airbag Deployment Wire Sub-harness No.3	
	09082-00760	Airbag Deployment Wire Sub-harness No.4	
	09082-00780	Airbag Deployment Wire Sub-Harness No.6	
	09082-00802	Airbag Deployment Wire Sub-Harness No.8	
	09843-18020	Diagnosis Check Wire	

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Fig. 58: Identifying SST Special Service Tools (Supplemental Restraint System)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00050 TOYOTA Electrical Tester Set.	
	09082-00040 TOYOTA Electrical Tester.	
	(09083-00150) Test Lead Set	

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Fig. 59: Identifying Recommended Tools
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

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

BODY ELECTRICAL

SST (SPECIAL SERVICE TOOLS)

	09843-18020 Diagnosis Check Wire	
	09843-18040 Diagnosis Check Wire No.2	

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Fig. 60: Identifying SST Special Service Tools (Body Electrical)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

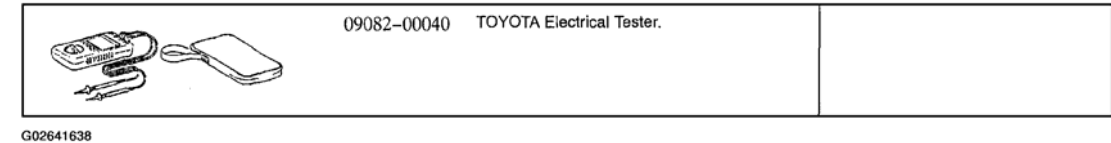


Fig. 61: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Ammeter	
Bulb (3.4 W)	Fuel receiver gauge
Masking tape	Rear window defogger wire
Syphon	Brake fluid level warning switch
Test lead	
Tin foil	Rear window defogger wire
Voltmeter	

SSM (SPECIAL SERVICE MATERIALS)

08888-88888 DuPont Paste No. 4817 or equivalent	Rear window defogger
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Fig. 62: SSM Special Service Materials Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

BODY

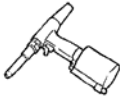
SST (SPECIAL SERVICE TOOLS)

	09082-00700 SRS Airbag Deployment Tool	
	09082-00770 Airbag Deployment Wire Sub-Harness No.5	
	09812-00010 Door Hinge Set Bolt Wrench	

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Fig. 63: Identifying SST Special Service Tools (Body)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09050-20010 Air Riveter.	
	(09050-02010) Dust Cap.	
	(09050-02030) Nose Piece No.2.	
	09060-60350 Rivet Cutter.	

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Fig. 64: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

Clip remover	
Torque wrench	
Hog ring pliers	
Tape	To avoid surface damage
Adhesive tape	To avoid surface damage
Double - stick tape	
Adhesive	

Butyl tape	
Cleaner	
Shop rag	Regulator handle
Knife	Moulding
Heat light	Moulding
Piano wire	Windshield
Sealer gun	
Brush	
Putty spatula	
Wooden block or similar object	For tying both piano wire ends
Plastic sheet	To avoid surface damage
Rope (no projections, difficult to break)	Seat belt pretensioner disposal
Tire Width: 185 mm (7.28 in.) Inner diam: 360 mm (14.17 in.)	Seat belt pretensioner disposal
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diam 360 mm (14.17 in.)	Seat belt pretinsioner disposal
Vinyl bag	Seat belt pretensioner disposal
Resin spatula	

LUBRICANT

LUBRICANT SPECIFICATION

Item	Capacity	Classification
MP grease	-	-

SSM (SPECIAL SERVICE MATERIALS)

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

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Fig. 65: SSM Special Service Materials Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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AIR CONDITIONING

SST (SPECIAL SERVICE TOOLS)

	07110-58060 Air Conditioner Service Tool Set	
	(07117-78050) Refrigerant Charging Gauge	
	(07117-88060) Refrigerant Charging Hose	Discharge (Red)
	(07117-88070) Refrigerant Charging Hose	Suction (Blue)
	(07117-88080) Refrigerant Charging Hose	Utility (Green)
	(07117-58060) Refrigerant Drain Service Valve	
	(07117-58080) Quick Disconnect Adapter	Discharge (diam. 16 mm)
	(07117-58090) Quick Disconnect Adapter	Suction (diam. 13 mm)
	(07117-58070) T-Joint	
	07112-66040 Magnetic Clutch Remover	
	07112-76060 Magnetic Clutch Stopper	
	09249-63010 Torque Wrench Adaptor	

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Fig. 66: Identifying SST Special Service Tools (Air Conditioning) (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

	09870-00015 A/C Quick Joint Pulier No.1	Suction tube
	09870-00025 A/C Quick Joint Pulier No.2	Liquid tube
	95416-00140 Gas Leak Detector <Halogen Leak Detector> (DENSO Part No.)	

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Fig. 67: Identifying SST Special Service Tools (Air Conditioning) (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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Fig. 68: Identifying Recommended Tools
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

EQUIPMENT

EQUIPMENT REFERENCE

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

LUBRICANT

LUBRICANT SPECIFICATIONS

Item	Capacity	Classification
Compressor oil	-	ND-OIL 8 or equivalent
When replacing condenser	40 cc (1.4 fl. oz.)	

2005 Toyota RAV4
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When replacing evaporator	40 cc (1.4 fl.oz.)	
When replacing compressor	100 cc (3.5 fl.oz.)	