

PP-8

PREPARATION – 1NZ-FE ENGINE MECHANICAL

SSM

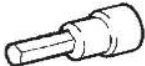
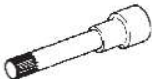
	08826-00080	Seal Packing Black or equivalent (FIPG)	-
	08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	-
	08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	-

PP

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PREPARATION – 1NZ-FE ENGINE MECHANICAL

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	-
	09040-00011	Hexagon Wrench Set	-
	(09043-20080)	Socket Hexagon Wrench 8	-
	(09043-20120)	Socket Hexagon Wrench 12	-
	09043-50080	Bi-hexagon Wrench 8 mm	-
	09090-04020	Engine Sling Device	-
	09216-00021	Belt Tension Gauge	-

PP

PREPARATION – 1NZ-FE ENGINE MECHANICAL

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EQUIPMENT

Alignmenttester	-
Angle gauge	-
Bar (width 2 to 3 mm)	-
Caliper gauge	-
Chain block	-
CO/HC meter	-
Compression gauge	-
Connecting rod aligner	-
Cylinder gauge	-
Dial indicator with magnetic base	-
Engine sling device	-
Feeler gauge	-
Heater	-
Micrometer	-
OBD II scan tool	-
Piston ring compressor	-
Piston ring expander	-
Plastic faced hammer	-
Plastic gage	-
Precision straight edge	-
Radiator cap tester	-
Reamer	-
Slide caliper	-
Spring tension gauge	-
Steel square	-
Tachometer	-
Timing light	-
Tire pressure gauge	-
Toe-in gauge	-
Torque wrench	-
Universal engine lifter	-
Valve seat cutter	-
V-block	-
Vernier caliper	-
Wooden block	-

PP

PP-10

PREPARATION – 1NZ-FE FUEL

EQUIPMENT

Clip	-
Stop Watch	-
Measuring Flask	-
Ohmmeter	-
Torque Wrench	-

PP

PREPARATION – 1NZ-FE FUEL

PP-11

SSM

	08826-00080	Seal Packing Black or equivalent (FIPG)	FUEL INJECTOR
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PP

1NZ-FE ENGINE CONTROL SYSTEM

RECOMMENDED TOOLS

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

PP

PP-2

PREPARATION – 1NZ-FE ENGINE CONTROL SYSTEM

EQUIPMENT

Torque Wrench	-
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PP

PP-12

PREPARATION – 1NZ-FE EMISSION CONTROL

EQUIPMENT

Torque Wrench	-
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PP

PREPARATION – 1NZ-FE EMISSION CONTROL

PP-13

SSM

	08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	-
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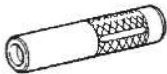
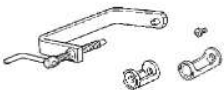
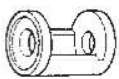
PP-2

PREPARATION – 1NZ-FE ENGINE MECHANICAL

1NZ-FE ENGINE MECHANICAL

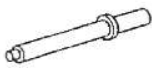
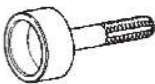
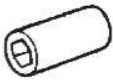
SST

PP

	09011-38121	12 mm Socket Wrench for 12 Pointed Head	Crankshaft bearing cap
	09023-38400	Union Nut Wrench 14mm	Camshaft timing sprocket
	09032-00100	Oil Pan Seal Cutter	-
	09201-10000	Valve Guide Bushing Remover & Replacer Set	-
	(09201-01050)	Valve Guide Bushing Remover & Replacer 5	-
	09201-41020	Valve Stem Oil Seal Replacer	-
	09202-70020	Valve Spring Compressor	-
	(09202-00010)	Attachment	-
	09205-16010	Cylinder Head Bolt Wrench	Connecting rod cap
	09213-58012	Crankshaft Pulley Holding Tool	-
	(91111-50845)	Bolt	-

PREPARATION – 1NZ-FE ENGINE MECHANICAL

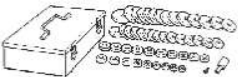
PP-3

	09221-25026	Piston Pin Remover & Replacer	-
	(09221-00021)	Body	-
	(09221-00030)	Spring	-
	(09221-00141)	Guide H	-
	(09221-00150)	Bushing D	-
	(09221-00190)	Guide K	-
	09223-22010	Crankshaft Front Oil Seal Replacer	-
	09223-56010	Crankshaft Rear Oil Seal Replacer	-
	09228-06501	Oil Filter Wrench	-
	09268-46021	Nozzle Holder Retaining Nut Wrench	Engine oil pressure switch
	09330-00021	Companion Flange Holding Tool	-
	09628-00011	Ball Joint Puller	-

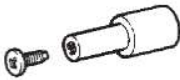
PP

PP-4

PREPARATION – 1NZ-FE ENGINE MECHANICAL

	09628-62011	Bolt Joint Puller	-
	09670-00010	Front Crossmember Guide Tool	-
	09817-33190	Sensor Socket Wrench	Engine coolant temperature sensor
	09843-18040	Diagnosis Check Wire No.2	-
	09930-00010	Drive Shaft Nut Chisel	-
	09950-50013	Puller C Set	Crankshaft pulley
	(09951-05010)	Hanger 150	-
	(09952-05010)	Slide Arm	-
	(09953-05020)	Center Bolt 150	-
	(09954-05021)	Claw No.2	-
	09950-60010	Replacer Set	Tight plug
	(09951-00180)	Replacer 18	-

PREPARATION – 1NZ-FE ENGINE MECHANICAL**PP-5**

	(09951-00250)	Replacer 25	-
	(09951-00380)	Replacer 38	-
	(09952-06010)	Adapter	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-
	09960-10010	Variable Pin Wrench Set	Water pump pulley
	(09962-01000)	Variable Pin Wrench Arm Assy	-
	(09963-00600)	Pin 6	-
	09992-00500	Compression Gauge Attachment	-

PP

PP-14

PREPARATION – 1NZ-FE COOLING

EQUIPMENT

Radiator cap tester	-
Thermometer	-
Torque wrench	-
Slide calipers	-
Heater	-

PP

COOLANT

Item	Capacity	Classification
Engine coolant	M/T: 4.4 liters (4.6 US pts, 3.9 Imp. qts) A/T: 4.3 liters (4.5 US pts, 3.8 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)

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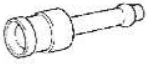
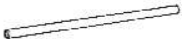
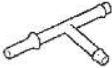
PP-8

PREPARATION – 1NZ-FE FUEL

1NZ-FE FUEL

SST

PP

	09268-21010	Fuel Hose Puller	-
	09268-41047	Injection Measuring Tool Set	-
	(09268-41110)	Adaptor	-
	(09268-41300)	Clamp	-
	(95336-08070)	Hose	-
	09268-45014	EFI Fuel Pressure Gauge	-
	(09268-41200)	Gauge	-
	(09268-41220)	Hose	-
	(09268-41250)	T Joint	-
	09842-30080	Wire H EFI Inspection	-

PREPARATION – 1NZ-FE FUEL

PP-9

RECOMMENDED TOOLS

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

PP

PREPARATION – 1NZ-FE LUBRICATION

PP-15

LUBRICANT

Item	Capacity	Classification
Oil grade	-	ILAC multigrade engine oil
Drain and refill with oil filter change	3.7 liters (3.9 US qts, 3.3 Imp. qts)	-
Drain and refill without oil filter change	3.4 liters (3.6 US qts, 3.0 Imp. qts)	-
Dry fill	4.1 liters (4.3 US qts, 3.6 Imp. qts)	-



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PREPARATION – 1NZ-FE LUBRICATION

SSM

	08826-00080	Seal Packing Black or equivalent (FIPG)	-
	08826-00100	Seal Packing 1282B, THREE BOND 1282B or equivalent (FIPG)	-

PP

PP-10

PREPARATION – 1NZ-FE EMISSION CONTROL

1NZ-FE EMISSION CONTROL

SST

	09224-00010	O2 Sensor Wrench	-
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PP

RECOMMENDED TOOLS

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

PP

1NZ-FE EXHAUST

SST

	09224-00010	O2 Sensor Wrench	-
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PP

PP-12

PREPARATION – 1NZ-FE EXHAUST

EQUIPMENT

Torque wrench	-
Vernier caliper	-
Wooden block	-

PP

PP-12

PREPARATION – 1NZ-FE COOLING

1NZ-FE COOLING

SST

	09960-10010	Variable Pin Wrench Set	-
	(09962-01000)	Variable Pin Wrench Arm Assy	-
	(09963-00600)	Pin 6	-

PP

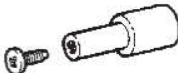
RECOMMENDED TOOLS

	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-
	09216-00021	Belt Tension Gauge	-

PP

1NZ-FE LUBRICATION

SST

	09228-06501	Oil Filter Wrench	-
	09950-60010	Replacer Set	Oil pump seal
	(09951-00250)	Replacer 25	-
	(09951-00380)	Replacer 38	-
	(09952-06010)	Adapter	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-

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PREPARATION – 1NZ-FE LUBRICATION

EQUIPMENT

Feeler gauge	-
Precision straight edge	-
Radiator cap tester	-
Torque wrench	-
Wooden block	-

PP

1NZ-FE IGNITION

RECOMMENDED TOOLS

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

PP

PP-16

PREPARATION – 1NZ-FE IGNITION

EQUIPMENT

Torque wrench	-
Spark plug cleaner	-

PP

PP-16

PREPARATION – 1NZ-FE STARTING

1NZ-FE STARTING

RECOMMENDED TOOLS

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

PP

EQUIPMENT

Ammeter	-
Ohmmeter	-
Service wire	-
Torque wrench	-
Vernier calipers	-



EQUIPMENT

Ammeter	-
Ohmmeter	-
Service wire	-
Torque wrench	-
Vernier calipers	-



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PREPARATION – U340E AUTOMATIC TRANSMISSION

RECOMMENDED TOOLS

	09011-2C590	Socket Wrench 30mm	-
	09013-6C130	Socket Hexagon 10mm	-
	09040-00011	Hexagon Wrench Set	-
	09090-04020	Engine Sling Device	-

PP

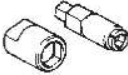
EQUIPMENT

Ohmmeter	
Voltmeter	
Chain block	
Torque wrench	
Dial indicator with magnetic base	
Feeler gauge	
Vernier calipers	
Slide calipers	
Plastic hammer	
Straight edge	

PP

1NZ-FE CHARGING

SST

	09286-46011	Injection Pump Spline Shaft Puller	-
	09820-63010	Alternator Pulley Set Nut Wrench Set	-
	(09820-06010)	Alternator Rotor Shaft Wrench	-
	(09820-06020)	Alternator Pulley Set Nut 22 mm Wrench	-

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PREPARATION – 1NZ-FE CHARGING

RECOMMENDED TOOLS

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

PP

PP-26

PREPARATION – U340E AUTOMATIC TRANSMISSION

LUBRICANT

Automatic transaxle fluid: Dry fill	6.8 litter (7.2 US qts, 6.0 Imp.qts)	ATF type T-IV
Automatic transaxle fluid: Drain and refill	2.9 litter (3.1 US qts, 2.6 Imp.qts)	ATF type T-IV

PP

PREPARATION – U340E AUTOMATIC TRANSMISSION

PP-27

SSM

	08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	-
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PP

LUBRICANT

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



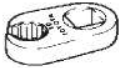
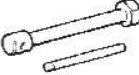
PP-18

PREPARATION – U340E AUTOMATIC TRANSMISSION

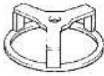
U340E AUTOMATIC TRANSMISSION

SST

PP

	09023-12701	Union Nut Wrench 17mm	-
	09221-25026	Piston Pin Remover & Replacer	-
	(09221-00071)	Guide A	-
	09223-15030	Oil Seal & Bearing Replacer	-
	09308-00010	Oil Seal Puller	-
	09308-10010	Oil Seal Puller	-
	09316-60011	Transmission & Transfer Bearing Replacer	-
	(09316-00011)	Replacer Pipe	-
	09320-89010	Transfer Clutch Spring Compressor	-
	09350-32014	TOYOTA Automatic Transmission Tool Set	-
	(09351-32010)	One-way Clutch Test Tool	-

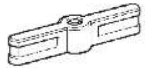
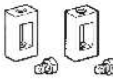
PREPARATION – U340E AUTOMATIC TRANSMISSION**PP-19**

	(09351-32020)	Stator Stopper	-
	09350-36010	TOYOTA Automatic Transmission Tool Set	-
	09387-00020	Direct Clutch Wrench	-
	09387-00041	Bearing Puller Assembly	-
	(09387-01021)	Claw No.2	-
	(09387-02010)	Oil Seal Replacer	-
	(09387-02020)	One-way Clutch Test Tool Set	-
	09387-00060	Second Brake Wrench	-
	09387-00070	First & Reverse Brake Wrench	-
	09387-00120	Counter Drive Gear Nut Wrench	-
	09527-17011	Rear Axle Shaft Bearing Remover	-
	09554-14010	Differential Oil Seal Replacer	-

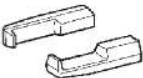
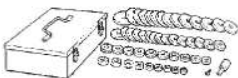
PP

PP-20

PREPARATION – U340E AUTOMATIC TRANSMISSION

	09564-32011	Differential Preload Adaptor	-
	09612-65014	Steering Worm Bearing Puller	-
	(09612-01010)	Claw A	-
	(09612-01040)	Claw D	-
	09726-27012	Front Suspension Arm Bushing Remover & Replacer	-
	(09726-02041)	Replacer	-
	09726-40010	Lower Control Shaft Bearing Replacer	-
	09930-00010	Drive Shaft Nut Chisel	-
	09950-40011	Puller B Set	-
	(09951-04010)	Hanger 150	-
	(09952-04010)	Slide Arm	-
	(09953-04020)	Center Bolt 150	-

PREPARATION – U340E AUTOMATIC TRANSMISSION**PP-21**

	(09953-04030)	Center Bolt 200	-
	(09954-04010)	Arm 25	-
	(09955-04061)	Claw No.6	-
	(09957-04010)	Attachment	-
	(09958-04011)	Holder	-
	09950-60010	Replacer Set	-
	(09951-00190)	Replacer 19	-
	(09951-00220)	Replacer 22	-
	(09951-00320)	Replacer 32	-
	(09951-00350)	Replacer 35	-
	(09951-00390)	Replacer 39	-
	(09951-00400)	Replacer 40	-

PP

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PREPARATION – U340E AUTOMATIC TRANSMISSION

PP

	(09951-00430)	Replacer 43	-
	(09951-00460)	Replacer 46	-
	(09951-00480)	Replacer 48	-
	(09951-00530)	Replacer 53	-
	(09951-00550)	Replacer 55	-
	(09951-00610)	Replacer 61	-
	(09951-00650)	Replacer 65	-
	(09951-00720)	Replacer 72	-
	(09952-06010)	Adapter	-
	09950-60020	Replacer Set No.2	-
	(09951-00680)	Replacer 68	-
	(09951-00750)	Replacer 75	-

PREPARATION – U340E AUTOMATIC TRANSMISSION

PP-23

PP

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

PREPARATION – CLUTCH

PP-27

EQUIPMENT

Vernier calipers	
Dial indicator with magnetic base	
Torque wrench	

PP

PP-28

PREPARATION – CLUTCH

LUBRICANT

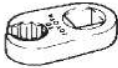
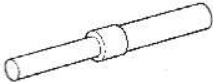
Item	Capacity	Classification
Brake fluid	-	SAE J1703 or FMVSS No.116 DOT 3

PP

PREPARATION – CLUTCH

PP-25

CLUTCH
SST

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

PP

PP-26

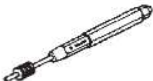
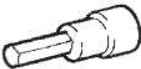
PREPARATION – CLUTCH

RECOMMENDED TOOLS

	09031-00030	Pin Punch	-
	09040-00011	Hexagon Wrench Set	-
	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-
	09905-00013	Snap Ring Pliers	-

PP

RECOMMENDED TOOLS

	09011-12301	Socket Wrench 30 mm	-
	09031-00030	Pin Punch	-
	09031-00040	Pin Punch .	-
	(09043-20060)	Socket Hexagon Wrench 6	-
	09090-04020	Engine Sling Device	-
	09905-00012	Snap Ring No.1 Expander	-

PP

PP-32

PREPARATION – C50 MANUAL TRANSMISSION

EQUIPMENT

Torque wrench	
Cylinder gauge	
Dial indicator or dial indicator with magnetic base	
Feeler gauge	
Micrometer	
Vernier calipers	
Dial indicator with magnetic base	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Slide calipers	
Angle gauge	
Chisel	
Plastic hammer	
Press	
Wooden block	
Heater	
V-block	

PP

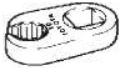
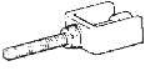
PP-26

PREPARATION – C50 MANUAL TRANSMISSION

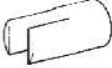
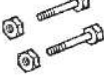
C50 MANUAL TRANSMISSION

SST

PP

	09023-00101	Union Nut Wrench 10 mm	-
	09308-00010	Oil Seal Puller	-
	09309-12020	5th Driven Gear Replacer	-
	09309-36010	Transmission Rear Bearing Replacer	-
	09316-60011	Transmission & Transfer Bearing Replacer	-
	(09316-00011)	Replacer Pipe	-
	(09316-00021)	Replacer A	-
	(09316-00031)	Replacer B	-
	09319-60020	Output Shaft Needle Roller Bearing Remover	-
	09350-32014	TOYOTA Automatic Transmission Tool Set	-
	(09351-32120)	Overdrive Bearing Replacer	-

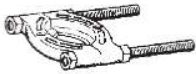
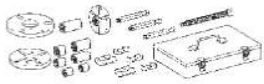
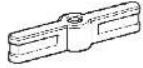
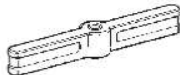
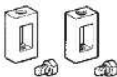
PREPARATION – C50 MANUAL TRANSMISSION**PP-27**

	09564-32011	Differential Preload Adaptor	-
	09608-04031	Front Hub Inner Bearing Cone Replacer	-
	09612-22011	Tilt Handle Bearing Replacer	-
	09612-65014	Steering Worm Bearing Puller	-
	(09612-01040)	Claw D	-
	(09612-01050)	Hanger Pin with Nut	-
	(09612-01060)	Claw E	-
	09636-20010	Upper Ball Joint Dust Cover Replacer	-
	09710-20011	Front Suspension Bushing Tool Set	-
	(09710-06071)	Replacer	-
	09726-36010	Lower Control Arm Bushing Replacer	-
	09817-16011	Back-up Light Switch Tool	-

PP

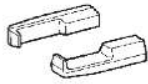
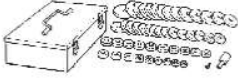
PP-28

PREPARATION – C50 MANUAL TRANSMISSION

	09950-00020	Bearing Remover	-
	09950-00030	Bearing Remover Attachment	-
	09950-30012	Puller A Set	-
	(09951-03010)	Upper Plate	-
	(09953-03010)	Center Bolt	-
	(09954-03010)	Arm	-
	(09955-03011)	Claw No.1	-
	(09957-04010)	Attachment	-
	09950-40011	Puller B Set	-
	(09951-04010)	Hanger 150	-
	(09951-04020)	Hanger 200	-
	(09952-04010)	Slide Arm	-

PP

PREPARATION – C50 MANUAL TRANSMISSION**PP-29**

	(09953-04020)	Center Bolt 150	-
	(09953-04030)	Center Bolt 200	-
	(09954-04010)	Arm 25	-
	(09955-04061)	Claw No.6	-
	(09955-04071)	Claw No.7	-
	(09957-04010)	Attachment	-
	(09958-04011)	Holder	-
	09950-60010	Replacer Set	-
	(09951-00190)	Replacer 19	-
	(09951-00200)	Replacer 20	-
	(09951-00220)	Replacer 22	-
	(09951-00360)	Replacer 36	-

PP

PP-30

PREPARATION – C50 MANUAL TRANSMISSION

PP

	(09951-00370)	Replacer 37	-
	(09951-00420)	Replacer 42	-
	(09951-00530)	Replacer 53	-
	(09951-00550)	Replacer 55	-
	09950-60020	Replacer Set No.2	-
	(09951-00680)	Replacer 68	-
	(09951-00710)	Replacer 71	-
	09950-70010	Handle Set	-
	(09951-07100)	Handle 100	-
	(09951-07150)	Handle 150	-
	(09951-07200)	Handle 200	-

LUBRICANT

Item	Capacity	Classification
Manual transaxle oil	1.9 liters (2.0 US qts, 1.7 Imp. qts)	API GL-4 or GL-5 SAE 75W-90



PP-34

PREPARATION – C50 MANUAL TRANSMISSION

SSM

	08826-00090	Seal Packing 1281, THREE BOND 1281 or equivalent (FIPG)	-
	08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	-

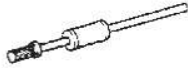
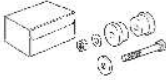
PP

PREPARATION – DRIVE SHAFT

PP-33

DRIVE SHAFT

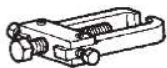
SST

	09240-00020	Wire Gauge Set	-
	(09242-00080)	Wire Gauge 0.8 mm (0.031 in.)	-
	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	-
	09608-16042	Front Hub Bearing Adjusting Tool	-
	(09608-02021)	Bolt & Nut	-
	(09608-02041)	Retainer	-
	09628-00011	Ball Joint Puller	-

PP

PP-34

PREPARATION – DRIVE SHAFT

	09628-62011	Ball Joint Puller	-
	09930-00010	Drive Shaft Nut Chisel	-
	09950-00020	Bearing Remover	-

PP

PREPARATION – DRIVE SHAFT

PP-35

RECOMMENDED TOOLS

	09011-2C590	Socket Wrench 30mm	-
	09905-00012	Snap Ring No.1 Expander	-

PP

PP-36

PREPARATION – DRIVE SHAFT

EQUIPMENT

Torque wrench	
Dial indicator with magnetic base	

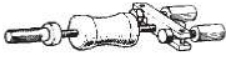
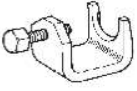
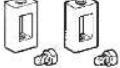
PP

PREPARATION – AXLE

PP-35

AXLE

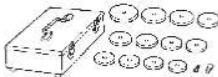
SST

	09520-00031	Rear Axle Shaft Puller	-
	09527-17011	Rear Axle Shaft Bearing Remover	-
	09608-32010	Steering Knuckle Oil Seal Replacer	-
	09628-00011	Ball Joint Puller	-
	09628-10011	Ball Joint Puller	-
	09628-62011	Ball Joint Puller	-
	09930-00010	Drive Shaft Nut Chisel	-
	09950-40011	Puller B Set	-
	(09951-04020)	Hanger 200	-
	(09952-04010)	Slide Arm	-
	(09953-04020)	Center Bolt 150	-

PP

PP-36

PREPARATION – AXLE

PP		(09954-04010)	Arm 25	-
		(09955-04011)	Claw No.1	-
		(09957-04010)	Attachment	-
		(09958-04011)	Holder	-
		09950-60010	Replacer Set	-
		(09951-00370)	Replacer 37	-
		(09951-00600)	Replacer 60	-
		09950-60020	Replacer Set No.2	-
		(09951-00680)	Replacer 68	-
		09950-70010	Handle Set	-
		(09951-07100)	Handle 100	-

LUBRICANT

Front drive shaft outboard joint grease Capacity	155 to 170 g (5.5 to 6.1 oz.)
Front drive shaft inboard joint grease capacity	125 to 135 g (4.5 to 4.8 oz.)



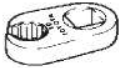
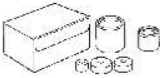
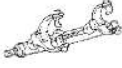
PP-38

PREPARATION – SUSPENSION

SUSPENSION

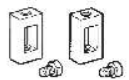
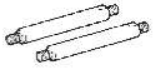
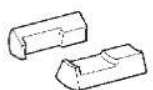
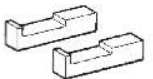
SST

PP

	09023-00101	Union Nut Wrench 10 mm	-
	09309-37010	Transmission Bearing Replacer	-
	09628-00011	Ball Joint Puller	-
	09670-00010	Front Crossmember Guide Tool	-
	09710-14013	Rear Suspension Bushing Tool Set	-
	(09710-00021)	Pipe	-
	09727-30021	Coil Spring Compressor	-
	(09727-00010)	Bolt Set	-
	(09727-00021)	Arm Set	-
	(09727-00031)	Compressor	-
	09950-40011	Puller B Set	-

PREPARATION – SUSPENSION

PP-39

	(09951-04010)	Hanger 150	-
	(09952-04010)	Slide Arm	-
	(09953-04010)	Center Bolt 100	-
	(09953-04030)	Center Bolt 200	-
	(09954-04020)	Arm 100	-
	(09955-04031)	Claw No.3	-
	(09955-04051)	Claw No.5	-
	(09957-04010)	Attachment	-
	(09958-04011)	Holder	-
	09950-60010	Replacer Set	-
	(09951-00560)	Replacer 56	-

PP

RECOMMENDED TOOLS

	09011-2C590	Socket Wrench 30mm	-
	09905-00013	Snap Ring Pliers	-
	(09904-00090)	Claw Set	-

PP

PP-38

PREPARATION – AXLE

EQUIPMENT

Torque wrench	
Dial indicator with magnetic base	

PP

TIRE AND WHEEL
EQUIPMENT

Dial indicator with magnetic base	-
Tire pressure gauge	-
Wheel balancer	-

PP

PP-40

PREPARATION – SUSPENSION

EQUIPMENT

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

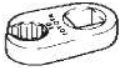
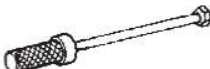
PP

PP-42

PREPARATION – BRAKE CONTROL

BRAKE CONTROL

SST

	09023-00101	Union Nut Wrench 10 mm	-
	09214-76011	Crankshaft Pulley Replacer	-
	09520-00031	Rear Axle Shaft Puller	-
	(09520-00040)	Shocker	-
	09521-00020	Drive Shaft Boot Clamping Tool	-
	09950-00020	Bearing Remover	-

PP

RECOMMENDED TOOLS

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

PP

PP-44

PREPARATION – BRAKE CONTROL

EQUIPMENT

Torque wrench	-
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PP

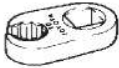
LUBRICANT

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



BRAKE

SST

	09023-00101	Union Nut Wrench 10 mm	-
	09703-30011	Tool Set, Brake Shoe Return Spring	-
	09718-00010	Shoe Hold Down Spring Driver	-
	09737-00020	Brake Booster Push Rod Wrench	-

PP

PP-44

PREPARATION – BRAKE

EQUIPMENT

Dial indicator with magnetic base	-
Slide calipers	-
Torque wrench	-

PP

EQUIPMENT

Torque wrench	
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PP

RECOMMENDED TOOLS

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

PP

PP-50

PREPARATION – POWER STEERING

EQUIPMENT

Torque wrench	
Dial indicator with magnetic base	
Feeler gauge	
Micrometer	
Vernier calipers	

PP

PP-44

PREPARATION – PARKING BRAKE

PARKING BRAKE
EQUIPMENT

Torque wrench	-
Brake drum gauge	-
Ruler	-

PP

LUBRICANT

Item	Capacity	Classification
Power steering fluid (Total)	0.7 liters (0.7 US qts, 0.6 Imp.qts)	ATF "DEXRON" II or III

PP

PP-52

PREPARATION – POWER STEERING

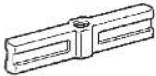
SSM

	08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	
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PP

STEERING COLUMN

SST

	09612-22011	Tilt Handle Bearing Replacer	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05021)	Claw No.2	

PP

PP-46

PREPARATION – STEERING COLUMN

RECOMMENDED TOOLS

	09904-00010	Expander Set	
	(09904-00020)	No. 1 Claw	

PP

PP-52

PREPARATION – AIR CONDITIONING

EQUIPMENT

Voltmeter	
Anmeter	
Ohmmeter	
Vinyl tape	
Hexagon wrench 4 mm (0.15 in.)	
Hexagon wrench 5 mm (0.20 in.)	
Hexagon wrench 14 mm (0.55 in.)	
Gas leak detector	
Radiator cap tester	
Torque wrench	

PP

LUBRICANT

Item	Capacity	Classification
Compressor oil	-	ND-OIL or equivalent



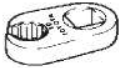
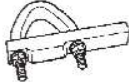
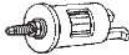
PP-46

PREPARATION – POWER STEERING

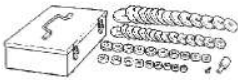
POWER STEERING

SST

PP

	09023-12701	Union Nut Wrench 17mm	
	09023-38201	Union Nut Wrench 12mm	
	09240-00020	Wire Gauge Set	
	09521-24010	Rear Axle Shaft Puller	
	09612-00012	Rack & Pinion Steering Rack Housing Stand	
	09612-24014	Steering Gear Housing Overhaul Tool Set	
	(09613-22011)	Steering Rack Shaft Bushing Puller	
	09616-00011	Steering Worm Bearing Adjusting Socket	
	09630-00014	Power Steering Gear Housing Overhaul Tool Set	
	(09631-00132)	Vane Pump Bracket	
	09631-10041	Steering Rack Cover D	

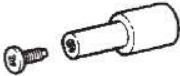
PREPARATION – POWER STEERING**PP-47**

	09631-12071	Steering Rack Oil Seal Test Tool	
	(09633-00010)	Packing	
	09640-10010	Power Steering Pressure Gauge Set	
	(09641-01010)	Gauge Assy	
	(09641-01030)	Attachment B	
	(09641-01060)	Attachment E	
	09670-00010	Front Crossmember Guide Tool	
	09922-10010	Variable Open Wrench	
	09950-60010	Replacer Set	
	(09951-00200)	Replacer 20	
	(09951-00210)	Replacer 21	
	(09951-00240)	Replacer 24	

PP

PP-48

PREPARATION – POWER STEERING

	(09951-00280)	Replacer 28	
	(09951-00340)	Replacer 34	
	(09951-00370)	Replacer 37	
	(09952-06010)	Adapter	
	09950-70010	Handle Set	
	(09951-07100)	Handle 100	
	(09951-07200)	Handle 200	
	(09951-07360)	Handle 360	

PP

EQUIPMENT

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

PP

PP-50

PREPARATION – AIR CONDITIONING

AIR CONDITIONING

SST

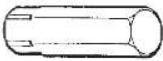
PP

	07110-58060	Air Conditioner Service Tool Set	-
	(07117-58060)	Refrigerant Drain Service Valve	-
	(07117-58070)	T-Joint	-
	(07117-58080)	Quick Disconnect Adapter	-
	(07117-58090)	Quick Disconnect Adapter	-
	(07117-78050)	Refrigerant Charging Gauge	-
	(07117-88060)	Refrigerant Charging Hose	-
	(07117-88070)	Refrigerant Charging Hose	-
	(07117-88080)	Refrigerant Charging Hose	-
	09870-00015	A/C Quick Joint Puller No.1	-

PREPARATION – AIR CONDITIONING

PP-51

RECOMMENDED TOOLS

	09040-00011	Hexagon Wrench Set	-
	(09043-20050)	Socket Hexagon Wrench 5	-
	(09043-30140)	Straight Hexagon Wrench 14	-
	09041-00030	Torx Driver T30	-
	09042-00010	Torx Socket T30	-
	09082-00040	TOYOTA Electrical Tester	-
	(09083-00150)	Test Lead Set	-
	95416-00140	Gas Leak Detector (Halogen Leak Detector) (DENSO Part No.)	-

PP

PREPARATION – WIPER AND WASHER

PP-59

EQUIPMENT

Torque wrench	
Slide calipers	

PP

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

PP-53

SUPPLEMENTAL RESTRAINT SYSTEM

SST

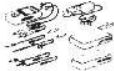
	09082-00700	SRS Airbag Deployment Tool	-
	09082-00750	Airbag Deployment Wire Sub-harness No.3	-
	09082-00780	Airbag Deployment Wire Sub-harness No.6	-
	09082-00802	Airbag Deployment Wire Sub-Harness No. 8	-
	(09082-10801)	Wire A	-
	(09082-20801)	Wire B	-
	(09082-30801)	Wire C	-
	09843-18040	Diagnosis Check Wire No.2	-

PP

PP-54

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

RECOMMENDED TOOLS

	09042-00010	Torx Socket T30	-
	09042-00020	Torx Socket T40	-
	09082-00050	TOYOTA Electrical Tester Set	-
	(09083-00150)	Test Lead Set	-

PP

SEAT BELT

SST

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

PP

PP-56

PREPARATION – SEAT BELT

EQUIPMENT

Torque wrench	
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PP

PP-56

PREPARATION – LIGHTING

LIGHTING

RECOMMENDED TOOLS

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

PP

EQUIPMENT

Tape	To avoid surface damage
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PP

WIPER AND WASHER

SST

	09843-18040	Diagnosis Check Wire No.2	-
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PP

PP-58

PREPARATION – WIPER AND WASHER

RECOMMENDED TOOLS

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

PP

PP-58

PREPARATION – DOOR LOCK

DOOR LOCK

RECOMMENDED TOOLS

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

PP

METER

RECOMMENDED TOOLS

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

PP

PP-60

PREPARATION – METER

EQUIPMENT

Torque wrench	
Tape	To avoid surface damage

PP

PP-64

PREPARATION – WINDSHIELD / WINDOWGLASS

SSM

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

PP

PP-68

PREPARATION – ENGINE HOOD / DOOR

EQUIPMENT

Brass bar	
Clip remover	
Hand remover	
Hammer	
Plastic-faced hammer	
Tape	To avoid surface damage
Torque wrench	

PP

LUBRICANT

Item	Capacity	Classification
MP grease	-	-



PP-60

PREPARATION – AUDIO / VISUAL

AUDIO / VISUAL

RECOMMENDED TOOLS

	09050-00032	Air Drill	-
	(09050-0010)	Chuck Set	-
	(09050-00220)	Handle	-
	09050-20010	Air Riveter	-
	(09050-02010)	Dust Cap	-
	09060-60350	Revet Cutter	-
	(09050-02020)	Nose Piece No.1	-

PP

EQUIPMENT

Torque wrench	
Ohmmeter	



PP-70

PREPARATION – ENGINE HOOD / DOOR

SSM

	08833-00070	Adhesive 1324, THREE BOND 1324 or equivalent	
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PP

HORN

RECOMMENDED TOOLS

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

PP

PP-62

PREPARATION – HORN

EQUIPMENT

Torque wrench	
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PP

PP-62

PREPARATION – WINDSHIELD / WINDOWGLASS

WINDSHIELD / WINDOWGLASS

RECOMMENDED TOOLS

	09070-20010	Moulding Remover	
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PP

EQUIPMENT

Knife	
Piano wire	
Plastic sheet	
Sealer gun	
Torque wrench	
Tape	
Wooden block or similar object	

PP

MIRROR

RECOMMENDED TOOLS

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

PP

PP-64

PREPARATION – MIRROR

EQUIPMENT

Tape	To avoid surface damage
Torque wrench	

PP

PP-64

PREPARATION – INSTRUMENT PANEL

**INSTRUMENT PANEL
EQUIPMENT**

Torque wrench	
Tape	To avoid surface damage

PP

SEAT
EQUIPMENT

Clip remover	
Hog ring pliers	
Hog ring	
Protective tape	to avoid surface damage
Torque wrench	

PP

PP-66

PREPARATION – ENGINE HOOD / DOOR

ENGINE HOOD / DOOR

SST

	09812-00010	Door Hinge Set Bolt Wrench	
	09812-00020	Door Hinge Set Bolt Wrench	

PP

RECOMMENDED TOOLS

	09041-00020	"Torx" Driver T25	
	09042-00010	"Torx" Socket T30	
	09042-00020	"Torx" Socket T40	

PP

EXTERIOR

RECOMMENDED TOOLS

	09070-20010	Moulding Remover	-
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PP

PP-68

PREPARATION – EXTERIOR

EQUIPMENT

Clip remover	
Double-sided tape	
Heat light	
Piano wire	
Protective tape	To avoid surface damage
Torque wrench	
Wooden block or similar object	For tying both piano wire ends

PP

PP-68

PREPARATION – INTERIOR

INTERIOR
EQUIPMENT

Clip remover	
Protective tape	To avoid surface damage

PP

SLIDING ROOF

RECOMMENDED TOOLS

	09041-00020	Torx Driver T25	-
	09082-00040	TOYOTA Electrical Tester	-

PP

PP-70

PREPARATION – SLIDING ROOF

EQUIPMENT

Torque wrench	
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PP

PP-70

PREPARATION – CAN COMMUNICATION

CAN COMMUNICATION
RECOMMENDED TOOLS

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

PP