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# PREPARATION

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PP

## REFER TO FOLLOWING REPAIR MANUALS:

Manual Name	Pub. No.
YARIS / ECHO Chassis and Body Repair Manual	RM685E
YARIS / ECHO Chassis and Body Repair Manual Supplement (Aug., 1999)	RM737E
YARIS / ECHO Chassis and Body Repair Manual Supplement (Jan., 2001)	RM838E


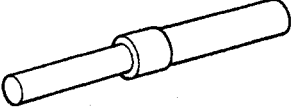
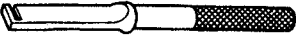
NOTE: The above pages contain only the points which differ from the above listed manuals.



# CLUTCH

## SST (Special Service Tools)

PP3TW-01

	<p>09023-00100 Union Nut Wrench 10 mm</p>	<p>Clutch line</p>
	<p>09301-00210 Clutch Guide Tool</p>	
	<p>09333-00013 Clutch Diaphragm Spring Aligner</p>	

PP

# EQUIPMENT

Vernier calipers	
Dial indicator with magnetic base	
Torque wrench	

PP

# LUBRICANT

PP0CK-06

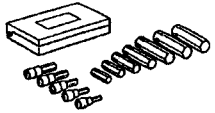

Item	Capacity	Classification
Brake fluid	-	SAE J1703 or FMVSS No. 116 DOT3

PP

# MANUAL TRANSAXLE (C153)

PP3U6-01

## RECOMMENDED TOOLS

	09040-00011 Hexagon Wrench Set .	
	09090-04020 Engine Sling Device	

PP

# EQUIPMENT

PP04Q-06

Torque wrench	
Wooden block or similar object	

**LUBRICANT**

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



# SUSPENSION AND AXLE EQUIPMENT


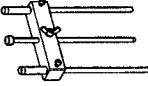
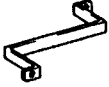
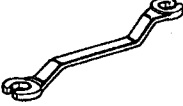

PP0AM-07

Dial indicator with magnetic base	
Torque wrench	



**BRAKE****SST (Special Service Tools)**

PP3U1-01

	09023-00100 Union Nut Wrench 10 mm	
	09737-00012 Brake Booster Push Rod Gauge	
	09737-00020 Brake Booster Push Rod Wrench	
	09751-36011 Brake Line Union Nut 10 x 12 mm Wrench	
	09709-29018 LSPV Gauge Set	

PP

# EQUIPMENT

PP17U-08

Torque wrench	
Vacuum gauge	Vacuum pump
Hexagon Wrench (4 mm)	Vacuum pump
Vernier calipers	Vacuum pump


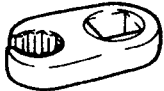



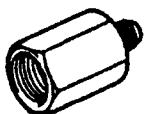

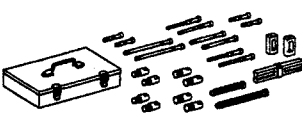
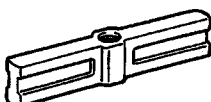
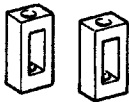


# LUBRICANT

Item	Capacity	Classification
Brake fluid	-	SAEJ1703 or FMVSS No.116 DOT 3

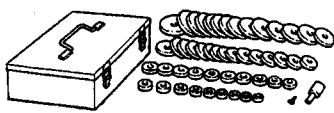



# STEERING

## SST (Special Service Tools)

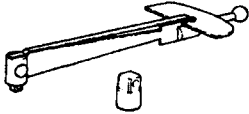

PP2GJ-02

	09023-12700	Union Nut Wrench 17mm	PS vane pump (1ND-TV) PS gear (1ND-TV)
	09023-12900	Union Nut Wrench 19mm	PS gear (1ND-TV)
	09640-10010	Power Steering Pressure Gauge Set	Power steering fluid (1ND-TV)
	(09641-01010)	Gauge Assy	
	(09641-01030)	Attachment B	
	(09641-01060)	Attachment E	
	09670-00010	Front Crossmember Guide Tool	Manual steering gear (1ND-TV) PS gear (1ND-TV)
	09950-50013	Puller C Set	Tilt steering column (1ND-TV)
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05021)	Claw No.2	

PREPARATION - STEERING

	<p>09950-60010 Replacer Set</p>	<p>PS vane pump (1ND-TV)</p>
	<p>(09951-00280) Replacer 28</p>	
	<p>09950-70010 Handle Set</p>	<p>PS vane pump (1ND-TV)</p>
	<p>(09951-07100) Handle 100</p>	

**RECOMMENDED TOOLS**

	09025-00010 Small Torque Wrench (30 kgf-cm)	PS vane pump (1ND-TV)
	09042-00010 Torx Socket T30	Tilt steering column (1ND-TV)

**EQUIPMENT**


Caliper gauge	PS vane pump (1ND-TV)
Vernier calipers	PS vane pump (1ND-TV)
Feeler gauge	PS vane pump (1ND-TV)
Micrometer	PS vane pump (1ND-TV)
Torque wrench	



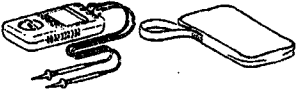
# BODY ELECTRICAL

## SST (Special Service Tools)

PP26C-01

	09843-18040 Diagnosis Check Wire No.2
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# RECOMMENDED TOOLS

	09082-00040 TOYOTA Electrical Tester.	
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# EQUIPMENT


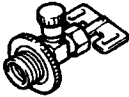




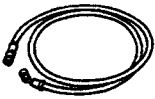


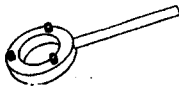

PP26E-05

Voltmeter	
Ammeter	
Ohmmeter	
Test lead	




# AIR CONDITIONING

## SST (Special Service Tools)

PP3U3-01

	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	
	(07117-88060) Refrigerant Charging Hose	
	(07117-88070) Refrigerant Charging Hose	
	(07117-88080) Refrigerant Charging Hose	
	07112-66040 Magnetic Clutch Remover	
	07112-76050 Magnetic Clutch Stopper	
	95994-10020 Snap Ring Pliers (DENSO Part No.)	

# RECOMMENDED TOOLS

	<p>09082-00040 TOYOTA Electrical Tester.</p>	
	<p>09216-00021 Belt Tension Gauge .</p>	
	<p>09216-00030 Belt Tension Gauge Cable .</p>	

**EQUIPMENT**

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

# LUBRICANT

PP0ES-08

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

