


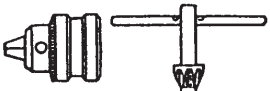

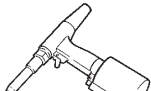






# AUDIO & VISUAL SYSTEM

## PREPARATION

022KX-01

### Recommended Tools

	09042-00010 Torx Socket T30	NAVIGATION ANTENNA ASSY
	09042-00030 Torx Socket T20	CIGARETTE LIGHTER ASSY
	09050-00032 Air Drill	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	(09050-00210) Chuck Set	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	(09050-00220) Handle	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	09050-20010 Air Riveter	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	(09050-02010) Dust Cap	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	(09050-02020) Nose Piece No.1	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	09060-60350 Revet Cutter	FRONT NO.1 SPEAKER ASSY REAR SPEAKER ASSY
	09070-20010 Moulding Remover	RADIO RECEIVER ASSY ANTENNA CORD SUB-ASSY POWER POINT SOCKET ASSY NAVIGATION ANTENNA ASSY ANTENNA CORD SUB-ASSY NO.3 AMPLIFIER ANTENNA ASSY(LIFTBACK MODELS) AMPLIFIER ANTENNA ASSY(SEDAN MODELS) AMPLIFIER ANTENNA ASSY(WAGON MODELS)

### Equipment


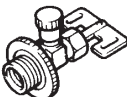









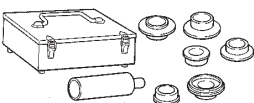
Torque wrench	
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# AUTOMATIC TRANSMISSION / TRANS


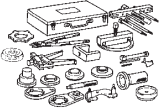
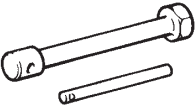
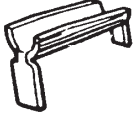

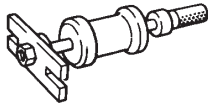
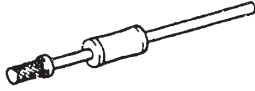
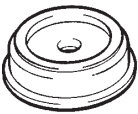
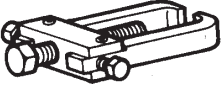
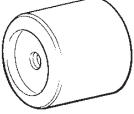

## PREPARATION


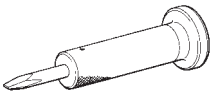
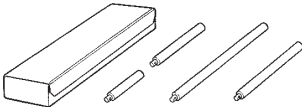


### SST

022L4-02

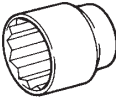
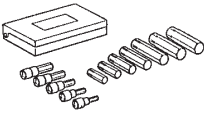
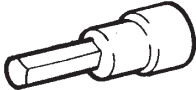
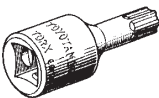
	07110-58060	Air Conditioner Service Tool Set	TRANSMISSION CONTROL CABLE ASSY
	(07117-58060)	Refrigerant Drain Service Valve	TRANSMISSION CONTROL CABLE ASSY
	(07117-58070)	T-Joint	TRANSMISSION CONTROL CABLE ASSY
	(07117-58080)	Quick Disconnect Adapter	TRANSMISSION CONTROL CABLE ASSY
	(07117-58090)	Quick Disconnect Adapter	TRANSMISSION CONTROL CABLE ASSY
	(07117-78050)	Refrigerant Charging Gauge	TRANSMISSION CONTROL CABLE ASSY
	(07117-88060)	Refrigerant Charging Hose	TRANSMISSION CONTROL CABLE ASSY
	(07117-88070)	Refrigerant Charging Hose	TRANSMISSION CONTROL CABLE ASSY
	(07117-88080)	Refrigerant Charging Hose	TRANSMISSION CONTROL CABLE ASSY
	09023-12700	Union Nut Wrench 17mm	AUTOMATIC ASSY(U241E) TRANSAXLE AUTOMATIC ASSY(U341E) TRANSAXLE
	09308-00010	Oil Seal Puller	FRONT DIFFERENTIAL OIL SEAL(U241E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09316-60011	Transmission & Transfer Bearing Replacer	FRONT DIFFERENTIAL OIL SEAL(U241E)

## PREPARATION – AUTOMATIC TRANSMISSION / TRANS




	(09316-00011) Replacer Pipe	FRONT DIFFERENTIAL OIL SEAL(U241E)
	09350-32014 TOYOTA Automatic Transmission Tool Set	TORQUE CONVERTER CLUTCH AND DRIVE PLATE(ATM) AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E)
	(09351-32010) One-way Clutch Test Tool	TORQUE CONVERTER CLUTCH AND DRIVE PLATE(ATM) AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E)
	(09351-32020) Stator Stopper	TORQUE CONVERTER CLUTCH AND DRIVE PLATE(ATM) AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E)
	09520-01010 Drive Shaft Remover Attachment	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09520-24010 Differential Side Gear Shaft Puller	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	(09520-32040) Shocker Set	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09554-14010 Differential Oil Seal Replacer	FRONT DIFFERENTIAL OIL SEAL(U341E)
	09628-62011 Bolt Joint Puller	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09649-17010 Steering Knuckle Tool	FRONT DIFFERENTIAL OIL SEAL(U241E)
	09726-27012 Front Suspension Arm Bushing Remover & Replacer	FRONT DIFFERENTIAL OIL SEAL(U341E)

	(09726-02041) Replacer	FRONT DIFFERENTIAL OIL SEAL(U341E)
	09930-00010 Drive Shaft Nut Chisel	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09950-70010 Handle Set	FRONT DIFFERENTIAL OIL SEAL(U241E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	(09951-07150) Handle 150	FRONT DIFFERENTIAL OIL SEAL(U241E)
	(09951-07200) Handle 200	FRONT DIFFERENTIAL OIL SEAL(U341E)

### Recommended Tools

	09011-12301 Socket Wrench 30 mm	AUTOMATIC TRANSAXLE ASSY(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09040-00011 Hexagon Wrench Set	AUTOMATIC TRANSAXLE ASSY(U241E) TRANSMISSION WIRE(U241E) TRANSMISSION VALVE BODY ASSY(U241E) FRONT DIFFERENTIAL OIL SEAL(U241E) AUTOMATIC TRANSAXLE ASSY(U341E)
	(09043-20100) Socket Hexagon Wrench 10	AUTOMATIC TRANSAXLE ASSY(U241E) TRANSMISSION WIRE(U241E) TRANSMISSION VALVE BODY ASSY(U241E) FRONT DIFFERENTIAL OIL SEAL(U241E) AUTOMATIC TRANSAXLE ASSY(U341E) TRANSMISSION VALVE BODY ASSY(U341E) TRANSMISSION WIRE(U341E) FRONT DIFFERENTIAL OIL SEAL(U341E)
	09042-00010 Torx Socket T30	TRANSMISSION CONTROL CABLE ASSY

## PREPARATION – AUTOMATIC TRANSMISSION / TRANS

	09090-04020	Engine Sling Device	AUTOMATIC ASSY(U241E) AUTOMATIC ASSY(U341E)	TRANSAXLE TRANSAXLE
	95416-00140	Gas Leak Detector (Halogen Leak Detector) (DENSO Part No.)	TRANSMISSION CONTROL CABLE ASSY	
	09216-00021	Belt Tension Gauge	AUTOMATIC ASSY(U151E/U151F)	TRANSAXLE

## SSM

08833-00080	Adhesive 1344 THREE BOND 1344 LOCTITE 242 or equivalent	TRANSMISSION WIRE(U241E) TRANSMISSION VALVE BODY ASSY(U241E)
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## Equipment

Straight edge	Automatic transaxle assy
Torque wrench	
Vernier calipers	Automatic transaxle assy
Dial indicator with magnetic base	Torque converter and drive plate
Slide calipers	Automatic transaxle assy
Chain block	Automatic transaxle assy

## Lubricant

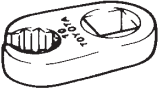

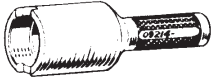
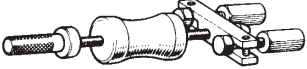




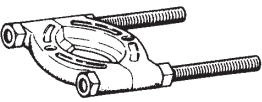
U341E Automatic transaxle fluid Dry fill Drain and refill	6.9 liter (7.7 USqts, 6.4 Imp.qts) 3.0 liter (3.2 USqts, 2.6 Imp.qts)	ATF type T-IV
U241F Automatic transaxle fluid Dry fill Drain and refill	8.6 liter (9.0 USqts, 7.6 Imp.qts) 3.5 liter (3.7 USqts, 3.1 Imp.qts)	ATF type T-IV

# BRAKE


## PREPARATION

### SST

022KS-01

	09023-00100 Union Nut Wrench 10 mm	BRAKE FLUID BRAKE MASTER CYLINDER SUB-ASSY FRONT BRAKE REAR BRAKE BRAKE BOOSTER ASSY(LHD) BRAKE BOOSTER ASSY(RHD) BRAKE ACTUATOR ASSY(W/ VSC) BRAKE ACTUATOR ASSY(W/O VSC)
	09023-38400 Union Nut Wrench 14mm	BRAKE FLUID BRAKE MASTER CYLINDER SUB-ASSY FRONT BRAKE REAR BRAKE BRAKE BOOSTER ASSY(LHD) BRAKE BOOSTER ASSY(RHD) BRAKE ACTUATOR ASSY(W/ VSC)
	09214-76011 Crankshaft Pulley Replacer	SKID CONTROL SENSOR
	09520-00031 Rear Axle Shaft Puller	SKID CONTROL SENSOR
	(09520-00040) Shocker	SKID CONTROL SENSOR
	09521-00020 Drive Shaft Boot Clamping Tool	SKID CONTROL SENSOR
	09550-60010 Differential Side Bearing Replacer	FRONT BRAKE
	(09710-06051) Replacer	REAR BRAKE
	09950-00020 Bearing Remover	SKID CONTROL SENSOR

### Recommended Tools

	09042-00010 Torx Socket T30	STEERING SENSOR
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**Equipment**

Micrometer	
Dial indicator w/ magnetic base	
Brake drum gauge	
Slide calipers	
Torque wrench	

**Lubricant**

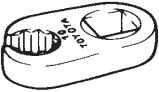
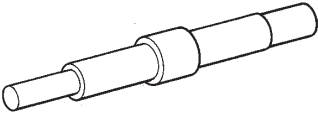

Item	Capacity	Classification
Brake fluid	–	SAE J1704 or FMVSS No. 116 DOT4

# CLUTCH

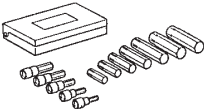
## PREPARATION

### SST

022KZ-01

	09023-00100 Union Nut Wrench 10 mm	CLUTCH ACCUMULATOR ASSY(1CD-FTV) CLUTCH RELEASE CYLINDER ASSY(MTM) CLUTCH MASTER CYLINDER ASSY(MTM)
	09301-00220 Clutch Guide Tool	CLUTCH UNIT(MTM)
	09333-00013 Universal Joint Bearing Remover & Replacer	CLUTCH UNIT(MTM)

### Recommended Tools

	09040-00011 Hexagon Wrench Set	CLUTCH PEDAL SUB-ASSY(MTM)
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### Equipment

Torque wrench	
Vernier calipers	
Dial indicator with magnetic base	
Vernier calipers	

### Lubricant

Item	Capacity	Classification
Brake fluid	–	SAE J1704 or FMVSS No.116 DOT 4

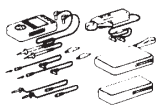


# COMMUNICATION SYSTEM

## PREPARATION

022L2-01

### Recomended Tools

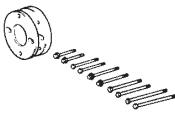


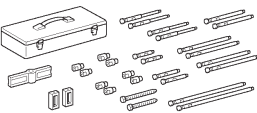
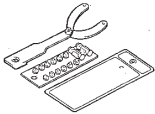
	09082-00050 TOYOTA Electrical Tester Set	HORN SYSTEM
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# COOLING



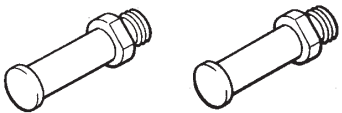
## PREPARATION

### SST


022KA-01

	09023-12700	Union Nut Wrench 17mm	WATER PUMP ASSY(1CD-FTV)
	09213-54015	Crankshaft Pulley Holding Tool	WATER PUMP ASSY(1CD-FTV)
	(90105-08076)	Bolt	WATER PUMP ASSY(1CD-FTV)
	09249-63010	Torque Wrench Adaptor	WATER PUMP ASSY(1AZ-FE) THERMOSTAT(1AZ-FE) WATER PUMP ASSY(1AZ-FSE) THERMOSTAT(1AZ-FSE)
	09330-00021	Companion Flange Holding Tool	WATER PUMP ASSY(1CD-FTV)
	09950-50013	Puller C Set	WATER PUMP ASSY(1CD-FTV)
	(09951-05010)	Hanger 150	WATER PUMP ASSY(1CD-FTV)
	(09952-05010)	Slide Arm	WATER PUMP ASSY(1CD-FTV)
	(09953-05020)	Center Bolt 150	WATER PUMP ASSY(1CD-FTV)
	(09954-05021)	Claw No.2	WATER PUMP ASSY(1CD-FTV)
	(09954-05031)	Claw No.3	WATER PUMP ASSY(1CD-FTV)
	09960-10010	Variable Pin Wrench Set	WATER PUMP ASSY(1AZ-FE) WATER PUMP ASSY(1AZ-FSE) WATER PUMP ASSY(1CD-FTV)

## PREPARATION – COOLING

	(09962-01000) Variable Pin Wrench Arm Assy	WATER PUMP ASSY(1AZ-FE) WATER PUMP ASSY(1AZ-FSE) WATER PUMP ASSY(1CD-FTV)
	(09963-00700) Pin 7	WATER PUMP ASSY(1AZ-FE) WATER PUMP ASSY(1AZ-FSE)
	(09963-01000) Pin 10	WATER PUMP ASSY(1CD-FTV)

## Recommended Tools

	09216-00021 Belt Tension Gauge	WATER PUMP ASSY(1CD-FTV)
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## Equipment

Hexagon wrench (8mm)	
Ohmmeter	
Radiator cap tester	
Thermometer	
Torque wrench	
Slide calipers	
Wooden block	
Heater	

## SSM

08826-00080 Seal Packing Black or equivalent (FIGP)	WATER PUMP ASSY(1AZ-FE) WATER PUMP ASSY(1AZ-FSE) WATER PUMP ASSY(1CD-FTV)
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## Coolant

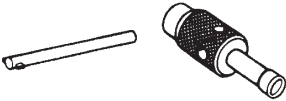

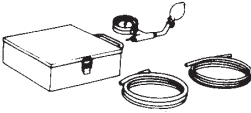
Item	Capacity	Classification
Engine coolant (3ZZ-FE) Left-hand drive vehicles Right-hand drive vehicles	5.8 liters (6.1 US qts, 5.1 Imp. qts) 5.9 liters (6.2 US qts, 5.2 Imp. qts)	TOYOTA long life coolant
Engine coolant (1ZZ-FE) Left-hand drive vehicles Right-hand drive vehicles	M/T 5.8 liters (6.1 US qts, 5.1 Imp. qts) A/T 5.7 liters (6.0 US qts, 5.0 Imp. qts) M/T 5.9 liters (6.2 US qts, 5.2 Imp. qts) A/T 5.8 liters (6.1 US qts, 5.1 Imp. qts)	TOYOTA long life coolant
Engine coolant (1AZ-FE/1AZ-FSE) Left-hand drive vehicles Right-hand drive vehicles	M/T 6.0 liters (6.3 US qts, 5.3 Imp. qts) A/T 6.3 liters (6.7 US qts, 5.5 Imp. qts) M/T 6.1 liters (6.4 US qts, 5.4 Imp. qts) A/T 6.4 liters (6.8 US qts, 5.6 Imp. qts)	TOYOTA long life coolant
Engine coolant (1CD-FTV) w/ power heater w/o power heater	7.6 liters (8.0 US qts, 6.7 Imp. qts) 7.4 liters (7.8 US qts, 6.5 Imp. qts)	TOYOTA long life coolant

# DIAGNOSTICS


## PREPARATION

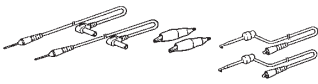
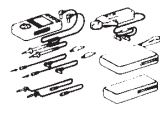

### SST

022LX-01

	09243-00020 Idle Adjusting Screw Wrench	SFI SYSTEM(1AZ-FE)
	09843-18040 Diagnosis Check Wire No.2	AIR CONDITIONING SYSTEM ELECTRONIC MOTOR POWER STEERING SYSTEM SUPPLEMENTAL RESTRAINT SYSTEM SFI SYSTEM(1AZ-FE) ECD SYSTEM(1CD-FTV) SFI SYSTEM(1ZZ-FE/3ZZ-FE)
	09992-00242 Turbocharger Pressure Gauge	ECD SYSTEM(1CD-FTV)

### Recommended Tools

	09082-00040 TOYOTA Electrical Tester	COMBINATION METER SFI SYSTEM(1AZ-FE) SFI SYSTEM(1AZ-FSE) ECD SYSTEM(1CD-FTV) SFI SYSTEM(1ZZ-FE/3ZZ-FE) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FSE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U341E)
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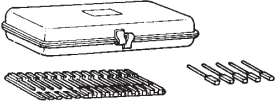
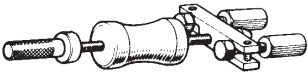

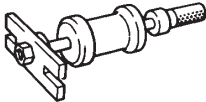
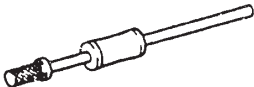
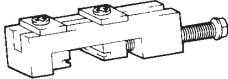


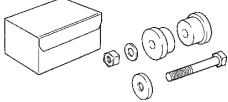



	(09083-00150) Test Lead Set	AIR CONDITIONING SYSTEM ABS WITH EBD SYSTEM ELECTRONIC MOTOR POWER STEERING SYSTEM MULTIPLEX COMMUNICATION SYSTEM ENGINE IMMOBILISER SYSTEM ABS WITH EBD & BA & TRC & VSC SYSTEM WIRELESS DOOR LOCK CONTROL SYSTEM COMBINATION METER KEY REMINDER WARNING SYSTEM POWER DOOR LOCK CONTROL SYSTEM SFI SYSTEM(1AZ-FE) SFI SYSTEM(1AZ-FSE) ECD SYSTEM(1CD-FTV) SFI SYSTEM(1ZZ-FE/3ZZ-FE) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FSE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U341E)
	09082-00050 TOYOTA Electrical Tester Set	POWER DOOR LOCK CONTROL SYSTEM
	(09083-00150) Test Lead Set	AIR CONDITIONING SYSTEM ABS WITH EBD SYSTEM ELECTRONIC MOTOR POWER STEERING SYSTEM MULTIPLEX COMMUNICATION SYSTEM ENGINE IMMOBILISER SYSTEM ABS WITH EBD & BA & TRC & VSC SYSTEM WIRELESS DOOR LOCK CONTROL SYSTEM COMBINATION METER KEY REMINDER WARNING SYSTEM POWER DOOR LOCK CONTROL SYSTEM SFI SYSTEM(1AZ-FE) SFI SYSTEM(1AZ-FSE) ECD SYSTEM(1CD-FTV) SFI SYSTEM(1ZZ-FE/3ZZ-FE) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U241E(1AZ-FSE)) ELECTRONIC CONTROLLED AUTOMATIC TRANSAXLE [ECT](U341E)

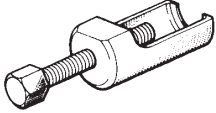
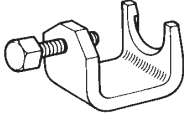
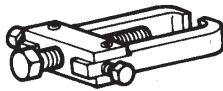

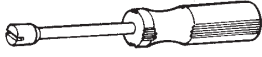

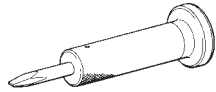
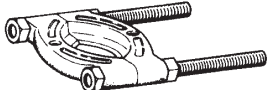

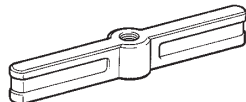
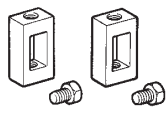
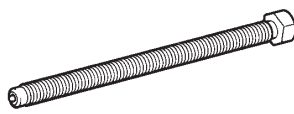
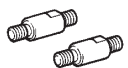
# DRIVE SHAFT / PROPELLER SHAFT

## PREPARATION

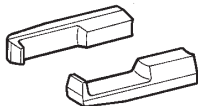

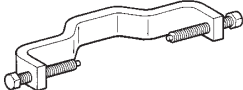
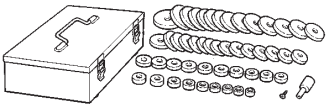


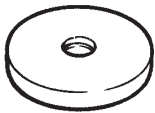
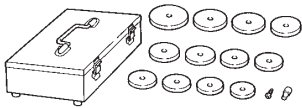


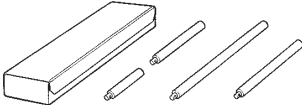

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### SST

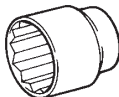
	09240-00020	Wire Gauge Set	FRONT DRIVE SHAFT
	09520-00031	Rear Axle Shaft Puller	FRONT AXLE HUB SUB-ASSY LH
	09520-01010	Drive Shaft Remover Attachment	FRONT DRIVE SHAFT
	09520-24010	Differential Side Gear Shaft Puller	FRONT DRIVE SHAFT
	(09520-32040)	Shocker Set	FRONT DRIVE SHAFT
	09521-24010	Rear Axle Shaft Puller	FRONT DRIVE SHAFT
	09527-10011	Rear Axle Shaft Bearing Remover	FRONT DRIVE SHAFT
	09527-17011	Rear Axle Shaft Bearing Remover	FRONT AXLE HUB SUB-ASSY LH
	09608-16042	Front Hub Bearing Adjusting Tool	FRONT DRIVE SHAFT
	(09608-02021)	Bolt & Nut	FRONT DRIVE SHAFT
	(09608-02041)	Retainer	FRONT DRIVE SHAFT
	09608-32010	Steering Knuckle Oil Seal Replacer	FRONT AXLE HUB SUB-ASSY LH

	09610-20012 Pitman Arm Puller	REAR AXLE CARRIER SUB-ASSY LH
	09628-10011 Ball Joint Puller	REAR AXLE LH HUB BOLT FRONT AXLE LH HUB BOLT
	09628-62011 Ball Joint Puller	FRONT AXLE HUB SUB-ASSY LH REAR AXLE CARRIER SUB-ASSY LH FRONT DRIVE SHAFT
	09710-04081 Base	FRONT DRIVE SHAFT
	09718-00010 Shoe Hold Down Spring Driver	REAR AXLE CARRIER SUB-ASSY LH
	09726-40010 Lower Control Shaft Bearing Replacer	FRONT DRIVE SHAFT
	09930-00010 Drive Shaft Nut Chisel	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
	09950-00020 Bearing Remover	FRONT DRIVE SHAFT
	09950-40011 Puller B Set	FRONT AXLE HUB SUB-ASSY LH
	(09951-04020) Hanger 200	FRONT AXLE HUB SUB-ASSY LH
	(09952-04010) Slide Arm	FRONT AXLE HUB SUB-ASSY LH
	(09953-04030) Center Bolt 200	FRONT AXLE HUB SUB-ASSY LH
	(09954-04010) Arm 25	FRONT AXLE HUB SUB-ASSY LH

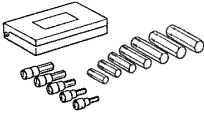
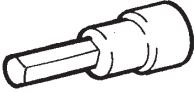
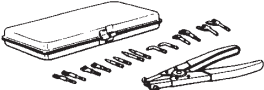

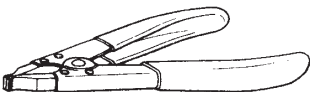
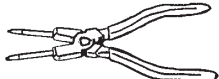
## PREPARATION – DRIVE SHAFT / PROPELLER SHAFT

	(09955-04061) Claw No.6	FRONT AXLE HUB SUB-ASSY LH
	(09957-04010) Attachment	FRONT AXLE HUB SUB-ASSY LH
	(09958-04010) Holder (J)	FRONT AXLE HUB SUB-ASSY LH
	09950-60010 Replacer Set	FRONT AXLE HUB SUB-ASSY LH
	(09951-00370) Replacer 37	FRONT AXLE HUB SUB-ASSY LH
	(09951-00600) Replacer 60	FRONT AXLE HUB SUB-ASSY LH
	(09951-00640) Replacer 64	FRONT AXLE HUB SUB-ASSY LH
	09950-60020 Replacer Set No.2	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
	(09951-00710) Replacer 71	FRONT DRIVE SHAFT
	(09951-00720) Replacer 72	FRONT AXLE HUB SUB-ASSY LH
	09950-70010 Handle Set	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
	(09951-07100) Handle 100	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT

## Recommended Tools

	09011-12301 Socket Wrench 30 mm	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
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	09040-00011 Hexagon Wrench Set	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
	(09043-20060) Socket Hexagon Wrench 6	FRONT AXLE HUB SUB-ASSY LH FRONT DRIVE SHAFT
	09904-00010 Expander Set	FRONT DRIVE SHAFT
	(09904-00050) No. 4 Claw	FRONT DRIVE SHAFT
	09905-00012 Snap Ring No.1 Expander	FRONT DRIVE SHAFT
	09905-00013 Snap Ring Pliers	FRONT AXLE HUB SUB-ASSY LH

## Equipment

Torque wrench	
Dial indicator with magnetic base	

## Lubricant


Item	Capacity
Front drive shaft	
1AZ-FSE, 1AZ-FE, 1CD-FTV	Outboard joint grease: 152.0 – 162.0 g (5.4 – 5.7 oz.) Inboard joint grease: 170.0 – 190.0 g (6.0 – 6.7 oz.)
3ZZ-FE, 1ZZ-FE	Outboard joint grease: 85.0 – 105.0 g (3.0 – 3.7 oz.) Inboard joint grease: 125.5 – 135.5 g (4.4 – 4.8 oz.)

# ENGINE CONTROL SYSTEM


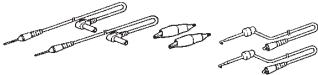
## PREPARATION

02ZJ5-01

### SST

	09268-21010 Fuel Hose Puller	KNOCK SENSOR(1AZ-FE)
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### Recomended Tools

	09082-00040 TOYOTA Electrical Tester	SFI SYSTEM(1AZ-FE) SFI SYSTEM(1AZ-FSE) SFI SYSTEM(1ZZ-FE/3ZZ-FE)
	(09083-00150) Test Lead Set	SFI SYSTEM(1AZ-FE) SFI SYSTEM(1AZ-FSE) SFI SYSTEM(1ZZ-FE/3ZZ-FE)

### Equipment



Ohmmeter	
Radiator cap tester	
Service Wire Harness	
Torque wrench	
Vernier calipers	
Voltmeter	

# ENGINE HOOD/DOOR

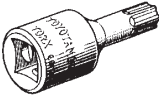
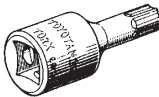
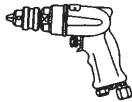
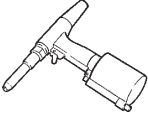
## PREPARATION

022K8-01

### SST

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

### Recommended Tools

	09042-00010	Torx Socket T30	FRONT DOOR REAR DOOR
	09042-00020	Torx Socket T40	FRONT DOOR REAR DOOR LUGGAGE COMPARTMENT DOOR BACK DOOR(LIFTBACK MODELS) BACK DOOR(WAGON MODELS)
	09050-00032	Air Drill	FRONT DOOR
	09050-20010	Air Riveter	FRONT DOOR

### SSM

08833-00070	"Adhesive 1324," THREE BOND 1324 or equivalent	FRONT DOOR REAR DOOR
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### Equipment

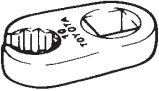



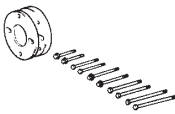
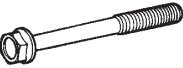
Brass bar	
Clip remover	
Hand riveter	
Hammer	
Plastic-faced hammer	
Tape	To avoid surface damage
Torque wrench	

# ENGINE MECHANICAL




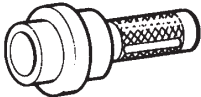

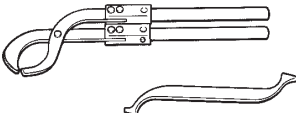


## PREPARATION



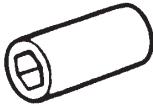
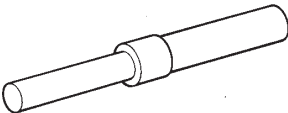
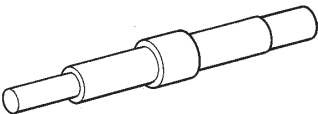
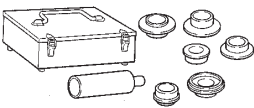


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### SST



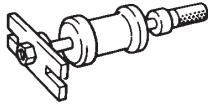
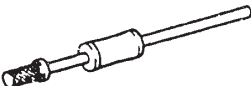
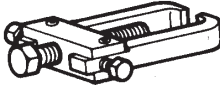
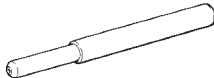



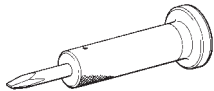
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	09023-12700 Union Nut Wrench 17mm	VALVE CLEARANCE(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	09023-12900 Union Nut Wrench 19mm	VALVE CLEARANCE(1AZ-FSE) PARTIAL ENGINE ASSY(1AZ-FSE) CHAIN SUB-ASSY(1AZ-FSE) CAMSHAFT(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE)
	09032-00100 Oil Pan Seal Cutter	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE)
	09213-54015 Crankshaft Pulley Holding Tool	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) ENGINE REAR OIL SEAL(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	(90105-08076) Bolt	TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)

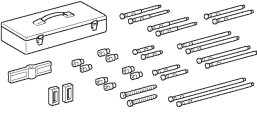
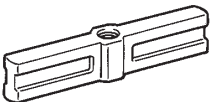
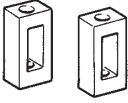
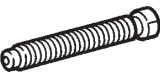
## PREPARATION – ENGINE MECHANICAL

	(91651-60855) Bolt	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) ENGINE REAR OIL SEAL(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE)
	09223-15020 Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	09223-15030 Oil Seal & Bearing Replacer	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FSE) ENGINE REAR OIL SEAL(1CD-FTV)
	09223-22010 Crankshaft Front Oil Seal Replacer	TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) CHAIN SUB-ASSY(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE) TIMING CHAIN OR BELT COVER OIL SEAL(1ZZ-FE/3ZZ-FE)
	09223-46011 Crankshaft Front Oil Seal Replacer	CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV)
	09248-55050 Valve Clearance Adjust Tool Set	VALVE CLEARANCE(1CD-FTV)
	(09248-05510) Valve Lifter Press	VALVE CLEARANCE(1CD-FTV)
	(09248-05520) Valve Lifter Stopper	VALVE CLEARANCE(1CD-FTV)

	09249-63010 Torque Wrench Adaptor	FAN AND GENERATOR V BELT(1AZ-FE) CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) FAN AND GENERATOR V BELT(1AZ-FSE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE)
	09268-21010 Fuel Hose Puller	CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE)
	09268-46021 Nozzle Holder Retaining Nut Wrench	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE)
	09301-00210 Clutch Guide Tool	PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09301-00220 Clutch Guide Tool	ENGINE REAR OIL SEAL(1CD-FTV)
	09316-60011 Transmission & Transfer Bearing Replacer	CRANKSHAFT SEAL(1CD-FTV)
	(09316-00011) Replacer Pipe	CRANKSHAFT SEAL(1CD-FTV)
	09330-00021 Companion Flange Holding Tool	PARTIAL ENGINE ASSY(1AZ-FE) CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) ENGINE REAR OIL SEAL(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)

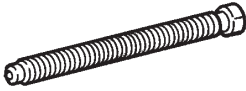

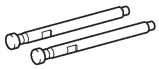
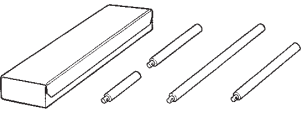

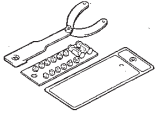
## PREPARATION – ENGINE MECHANICAL



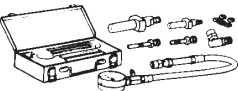

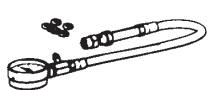
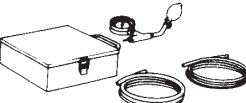
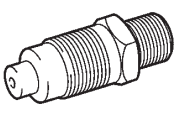
	(09330-00030) Pin	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE)
	09520-01010 Drive Shaft Remover Attachment	ENGINE REAR OIL SEAL(1CD-FTV)
	09520-24010 Differential Side Gear Shaft Puller	ENGINE REAR OIL SEAL(1CD-FTV)
	(09520-32040) Shocker Set	ENGINE REAR OIL SEAL(1CD-FTV)
	09628-62011 Boll Joint Puller	ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09670-00010 Front Crossmember Guide Tool	ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09817-33190 Sensor Socket Wrench	PARTIAL ENGINE ASSY(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09843-18020 Diagnosis Check Wire	ENGINE(1AZ-FSE) ENGINE(1ZZ-FE/3ZZ-FE)
	09843-18040 Diagnosis Check Wire No.2	ENGINE(1AZ-FE) ENGINE(1AZ-FSE) ENGINE(1CD-FTV) ENGINE(1ZZ-FE/3ZZ-FE) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE)
	09930-00010 Drive Shaft Nut Chisel	ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)

	09950-50013 Puller C Set	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	(09951-05010) Hanger 150	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	(09952-05010) Slide Arm	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	(09953-05010) Center Bolt 100	CRANKSHAFT SEAL(1CD-FTV)

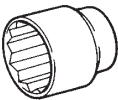

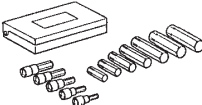
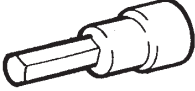

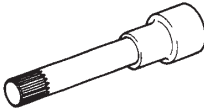





## PREPARATION – ENGINE MECHANICAL

	(09953-05020) Center Bolt 150	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	(09954-05021) Claw No.2	CHAIN SUB-ASSY(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FE) CHAIN SUB-ASSY(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL(1AZ-FSE) CRANKSHAFT SEAL(1CD-FTV)
	(09954-05031) Claw No.3	TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV)
	09950-70010 Handle Set	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FSE) ENGINE REAR OIL SEAL(1CD-FTV) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	(09951-07100) Handle 100	ENGINE REAR OIL SEAL(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FSE) ENGINE REAR OIL SEAL(1CD-FTV) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	09960-10010 Variable Pin Wrench Set	TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) CHAIN SUB-ASSY(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE) TIMING CHAIN OR BELT COVER OIL SEAL(1ZZ-FE/3ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)

	(09962-01000) Variable Pin Wrench Arm Assy	TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) CHAIN SUB-ASSY(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE) TIMING CHAIN OR BELT COVER OIL SEAL(1ZZ-FE/3ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	(09963-01000) Pin 10	TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) CHAIN SUB-ASSY(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE) TIMING CHAIN OR BELT COVER OIL SEAL(1ZZ-FE/3ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	09992-00025 Cylinder Compression Check Gauge Set	ENGINE(1CD-FTV)
	(09992-00121) No. 4 Attachment	ENGINE(1CD-FTV)
	(09992-00211) Gauge Assy	ENGINE(1CD-FTV)
	09992-00242 Turbocharger Pressure Gauge	VALVE CLEARANCE(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV)
	09992-00500 Compression Gauge Attachment	ENGINE(1AZ-FE) ENGINE(1AZ-FSE) ENGINE(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE)

## Recommended Tools

	09011-12301	Socket Wrench 30 mm	ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)
	09017-38120	Deep Socket Wrench 12 mm	PARTIAL ENGINE ASSY(1CD-FTV)
	09040-00011	Hexagon Wrench Set	PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	(09043-20050)	Socket Hexagon Wrench 5	PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	(09043-20100)	Socket Hexagon Wrench 10	PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09043-50100	Bi-hexagon Wrench 10 mm	CYLINDER HEAD GASKET(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FSE)
	09090-04020	Engine Sling Device	PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE)
	09216-00021	Belt Tension Gauge	ENGINE(1CD-FTV) DRIVE BELT(1CD-FTV) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV)
	(09857-00031)	Spark Plug Gap Gauge	ENGINE(1AZ-FE) ENGINE(1AZ-FSE) ENGINE(1ZZ-FE/3ZZ-FE)

## Equipment

Hexagon wrench (6mm)	
Feeler gauge	
CO/HC meter	
Compression gauge	
Dial indicator	
Dial indicator or dial indicator with magnetic base	
Micro meter	
Radiator cap tester	
Straightedge	
Tachometer	
Torque wrench	

Vernier calipers	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
OBD II scan tool	
Deep socket wrench 24 mm	
Slide calipers	
Sand paper (#400)	
Wooden block	
Chain block	
Spark plug cleaner	
Angle gauge	
Universal engine lifter	

**SSM**

08826-00080	Seal Packing Black or equivalent (FIPG)	VALVE CLEARANCE(1AZ-FE) CYLINDER HEAD GASKET(1AZ-FE) VALVE CLEARANCE(1AZ-FSE) CYLINDER HEAD GASKET(1AZ-FSE) VALVE CLEARANCE(1CD-FTV) TIMING BELT(1CD-FTV) CAMSHAFT(1CD-FTV) CYLINDER HEAD GASKET(1CD-FTV) CRANKSHAFT SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) VALVE CLEARANCE(1ZZ-FE/3ZZ-FE) CHAIN SUB-ASSY(1ZZ-FE/3ZZ-FE) CAMSHAFT(1ZZ-FE/3ZZ-FE) CYLINDER HEAD GASKET(1ZZ-FE/3ZZ-FE)
08833-00070	"Adhesive 1324," THREE BOND 1324 or equivalent	PARTIAL ENGINE ASSY(1AZ-FE) ENGINE REAR OIL SEAL(1AZ-FE) PARTIAL ENGINE ASSY(1AZ-FSE) ENGINE REAR OIL SEAL(1AZ-FSE) ENGINE REAR OIL SEAL(1CD-FTV) PARTIAL ENGINE ASSY(1CD-FTV) PARTIAL ENGINE ASSY(1ZZ-FE/3ZZ-FE) ENGINE REAR OIL SEAL(1ZZ-FE/3ZZ-FE)

# EXHAUST PREPARATION

022J7-01

## Equipment

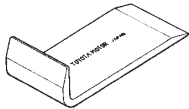
Torque wrench	
Vernier calipers	
Wooden block	

# EXTERIOR/INTERIOR TRIM

## PREPARATION

022KP-01

### Recomended Tools

	09070-20010 Moulding Remover	FRONT DOOR BELT MOULDING ASSY LH REAR DOOR BELT MOULDING ASSY LH ROOF HEADLINING ASSY(LIFTBACK MODELS) ROOF HEADLINING ASSY(SEDAN MODELS) ROOF HEADLINING ASSY(WAGON MODELS)
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### Equipment


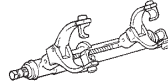

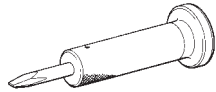
Adhesive tape	To avoid surface damage.
Clip remover	
Piano wire	
Protective tape	To avoid surface damage.
Torque wrench	
Wooden block	For tying both piano wire ends

# FRONT SUSPENSION

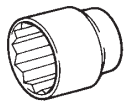
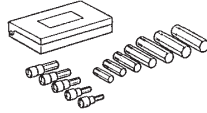
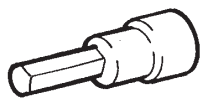
## PREPARATION

022KF-01

### SST

	09628-62011	Ball Joint Puller	LOWER BALL JOINT ASSY FRONT LH STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM)
	09727-30021	Coil Spring Compressor	FRONT SHOCK ABSORBER WITH COIL SPRING
	09729-22031	Front Spring Upper Seat Holder	FRONT SHOCK ABSORBER WITH COIL SPRING
	09930-00010	Drive Shaft Nut Chisel	LOWER BALL JOINT ASSY FRONT LH

### Recommended Tools

	09011-12301	Socket Wrench 30 mm	LOWER BALL JOINT ASSY FRONT LH
	09040-00011	Hexagon Wrench Set	FRONT SHOCK ABSORBER WITH COIL SPRING STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM) FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(MTM)
	(09043-20060)	Socket Hexagon Wrench 6	FRONT SHOCK ABSORBER WITH COIL SPRING STABILIZER BAR FRONT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(ATM) FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH(MTM)

### Equipment


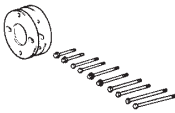
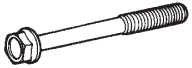
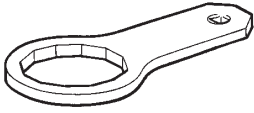
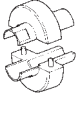
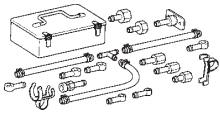
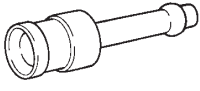


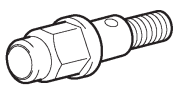

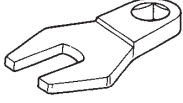
Torque wrench	
Dial indicator with magnetic base	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Angle gauge	
Camber-caster-kingpin gauge	
Engine Sling Device	
Drill	

# FUEL

## PREPARATION

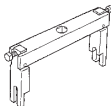

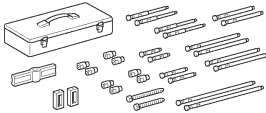
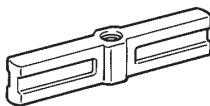
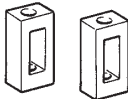
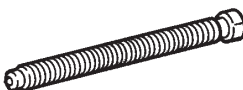

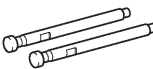
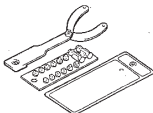
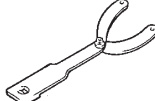

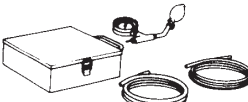
### SST

022J6-01


	09023-12700	Union Nut Wrench 17mm	INJECTOR ASSY(1CD-FTV) INJECTION OR SUPPLY PUMP ASSY(1CD-FTV) COMMON RAIL ASSY(1CD-FTV)
	09213-54015	Crankshaft Pulley Holding Tool	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(90105-08076)	Bolt	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	09228-64030	Fuel Filter Wrench	FUEL FILTER ASSY(1CD-FTV)
	09268-21010	Fuel Hose Puller	FUEL INJECTOR ASSY(1AZ-FE) FUEL PRESSURE PULSATION DAMPER ASSY(1AZ-FE) FUEL INJECTOR ASSY (1ZZ-FE/3ZZ-FE)
	09268-41047	Injection Measuring Tool Set	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	(09268-41110)	Adaptor	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	(09268-41300)	Clamp	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	(95336-08070)	Hose	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	09280-00010	Union Bolt, inspection	INJECTOR ASSY(1CD-FTV)
	09330-00021	Companion Flange Holding Tool	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09617-24011)	Steering Rack Wrench	FUEL PUMP ASSY(1AZ-FSE)


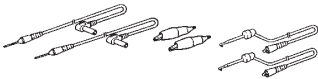
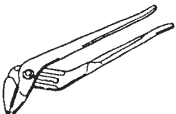



## PREPARATION – FUEL

	09808-14010 Fuel Sender Gauge Tool Assy	FUEL TANK ASSY(DIESEL) FUEL PUMP ASSY(GASOLINE) FUEL TANK ASSY(GASOLINE)
	09842-30080 Wire "H" EFI Inspection	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	09950-50013 Puller C Set	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09951-05010) Hanger 150	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09952-05010) Slide Arm	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09953-05020) Center Bolt 150	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09954-05021) Claw No.2	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09954-05031) Claw No.3	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	09960-10010 Variable Pin Wrench Set	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09962-01000) Variable Pin Wrench Arm Assy	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	(09963-01000) Pin 10	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)
	09992-00242 Turbocharger Pressure Gauge	INJECTOR ASSY(1CD-FTV)

## Recommended Tools

	09042-00020 Torx Socket T40	FUEL INJECTOR ASSY(1AZ-FSE)
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	09082-00040 TOYOTA Electrical Tester	FUEL SYSTEM(1CD-FTV) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	(09083-00150) Test Lead Set	FUEL SYSTEM(1AZ-FE) FUEL SYSTEM(1AZ-FSE) FUEL SYSTEM(1ZZ-FE/3ZZ-FE)
	09130-00150 Water Pump Pliers	FUEL FILTER ASSY(1CD-FTV)
	09216-00021 Belt Tension Gauge	INJECTION OR SUPPLY PUMP ASSY(1CD-FTV)

### Equipment

Clip	
Hexagon wrench (6 mm)	
Measuring Flask	
Ohmmeter	
Radiator cap tester	
Service Wire Harness	
Stopwatch	
Torque wrench	
Vernier calipers	
Wooden block	

### SSM


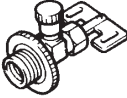
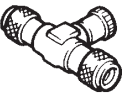
08826-00080 Seal Packing Black or equivalent (FIPG)	INJECTOR ASSY(1CD-FTV)
08850-00065 Butyl Tape Set	FUEL TANK ASSY(DIESEL)




# HEATER & AIR CONDITIONER

## PREPARATION




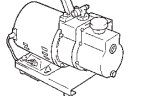
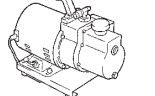
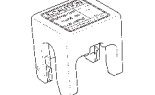
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
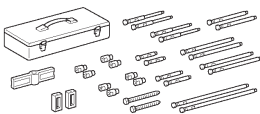
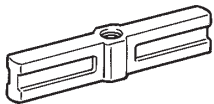
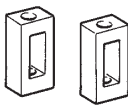
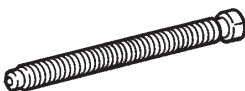

022KJ-01

	07110-58060 Air Conditioner Service Tool Set	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-58060) Refrigerant Drain Service Valve	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-58070) T-Joint	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)

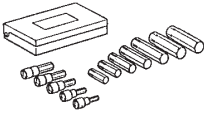
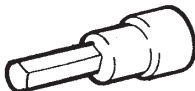
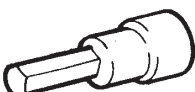
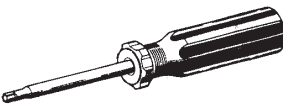
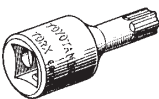
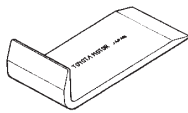

	(07117-58080) Quick Disconnect Adapter	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-58090) Quick Disconnect Adapter	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-78050) Refrigerant Charging Gauge	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)

## PREPARATION – HEATER &amp; AIR CONDITIONER


	(07117-88060) Refrigerant Charging Hose	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-88070) Refrigerant Charging Hose	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	(07117-88080) Refrigerant Charging Hose	REFRIGERANT AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY W/PULLEY COMPRESSOR ASSY(1AZ-FE) W/PULLEY COMPRESSOR ASSY(1AZ-FSE) W/PULLEY COMPRESSOR ASSY(1CD-FTV) W/PULLEY COMPRESSOR ASSY(1ZZ-FE) W/PULLEY COMPRESSOR ASSY(2AZ-FSE) W/PULLEY COMPRESSOR ASSY(3ZZ-FE)
	07117-48130 Vacuum Pump (220 V)	W/RECEIVER CONDENSER ASSY
	07117-48140 Vacuum Pump (240 V)	W/RECEIVER CONDENSER ASSY
	09870-00015 A/C Quick Joint Puller No.1	AIR CONDITIONING RADIATOR ASSY

	09870-00025 A/C Quick Joint Puller No.2	AIR CONDITIONING RADIATOR ASSY
	09950-50013 Puller C Set	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	(09951-05010) Hanger 150	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	(09952-05010) Slide Arm	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	(09953-05020) Center Bolt 150	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	(09954-05021) Claw No.2	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY

### Recommended Tools

	09040-00011 Hexagon Wrench Set	AIR CONDITIONING RADIATOR ASSY W/RECEIVER CONDENSER ASSY
	(09043-20050) Socket Hexagon Wrench 5	AIR CONDITIONING RADIATOR ASSY
	(09043-20100) Socket Hexagon Wrench 10	W/RECEIVER CONDENSER ASSY
	09041-00030 Torx Driver T30	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	09042-00010 Torx Socket T30	AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	09070-20010 Moulding Remover	AIR CONDITIONING CONTROL ASSY AIR CONDITIONING RADIATOR ASSY BLOWER ASSY
	09216-00021 Belt Tension Gauge	V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1

## PREPARATION – HEATER &amp; AIR CONDITIONER

	95416-00140	Gas Leak Detector (Halogen Leak Detector) (DENSO Part No.)	REFRIGERANT
			AIR CONDITIONING RADIATOR
			ASSY
			W/PULLEY COMPRESSOR
			ASSY(1AZ-FE)
			W/PULLEY COMPRESSOR
			ASSY(1AZ-FSE)
			W/PULLEY COMPRESSOR
			ASSY(1CD-FTV)
			W/PULLEY COMPRESSOR
			ASSY(1ZZ-FE)
			W/PULLEY COMPRESSOR
			ASSY(2AZ-FSE)
			W/PULLEY COMPRESSOR
			ASSY(3ZZ-FE)

## Equipment

Voltmeter	
Ammeter	
Ohmmeter	
Vinyl tape	
Hexagon wrench 4 mm (0.15 in.)	
Hexagon wrench 14 mm (0.55 in.)	
Gas leak detector	
Dial indicator with magnetic base	
Radiator cap tester	
Torque wrench	

## Lubricant


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

# IGNITION



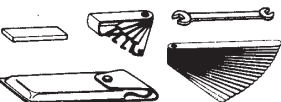

## PREPARATION

### SST

022J8-01

	09249-63010 Torque Wrench Adaptor	CRANKSHAFT POSITION SENSOR (1AZ-FE/1AZ-FSE)
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### Recommended Tools

	09082-00040 TOYOTA Electrical Tester	IGNITION SYSTEM(1AZ-FE) IGNITION SYSTEM(1AZ-FSE) IGNITION SYSTEM (1ZZ-FE/3ZZ-FE)
	(09083-00150) Test Lead Set	IGNITION SYSTEM(1AZ-FE) IGNITION SYSTEM(1AZ-FSE) IGNITION SYSTEM (1ZZ-FE/3ZZ-FE)
	09200-00010 Engine Adjust Kit	IGNITION SYSTEM(1AZ-FE) IGNITION SYSTEM(1AZ-FSE) IGNITION SYSTEM (1ZZ-FE/3ZZ-FE)
	(09857-00031) Spark Plug Gap Gauge	IGNITION SYSTEM(1AZ-FE) IGNITION SYSTEM(1AZ-FSE) IGNITION SYSTEM (1ZZ-FE/3ZZ-FE)

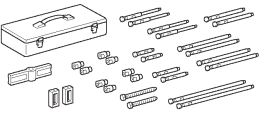
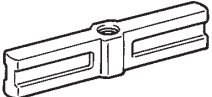
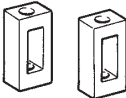
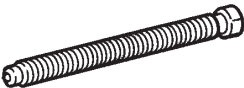

### Equipment

Ohmmeter	
Service Wire Harness	
Torque wrench	



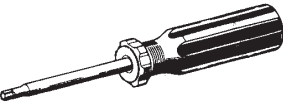
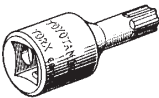
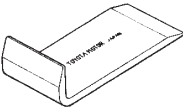


INSTRUMENT PANEL/METER  
PREPARATION  
SST

022G7-01

	09950-50013 Puller C Set	INSTRUMENT LOWER	PANEL	SUB-ASSY
	(09951-05010) Hanger 150	INSTRUMENT LOWER	PANEL	SUB-ASSY
	(09952-05010) Slide Arm	INSTRUMENT LOWER	PANEL	SUB-ASSY
	(09953-05020) Center Bolt 150	INSTRUMENT LOWER	PANEL	SUB-ASSY
	(09954-05021) Claw No.2	INSTRUMENT LOWER	PANEL	SUB-ASSY

Recomended Tools

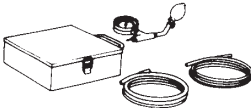
	09082-00040 TOYOTA Electrical Tester	COMBINATION METER		
	(09083-00150) Test Lead Set	COMBINATION METER		
	09041-00030 Torx Driver T30	INSTRUMENT LOWER	PANEL	SUB-ASSY
	09042-00010 Torx Socket T30	INSTRUMENT LOWER	PANEL	SUB-ASSY
	09070-20010 Moulding Remover	INSTRUMENT LOWER MULTI-DISPLAY (CRT DISPLAY) DISPLAY	PANEL	SUB-ASSY

Equipment


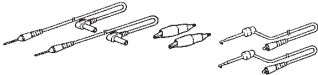
Torque wrench	
Tape	To avoid surface damage

INTAKE  
PREPARATION  
SST

022KR-01

	09992-00242 Turbocharger Pressure Gauge	TURBO CHARGER SYSTEM (1CD-FTV)
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Recomended Tools

	09082-00040 TOYOTA Electrical Tester	TURBO CHARGER SYSTEM (1CD-FTV)
	(09083-00150) Test Lead Set	TURBO CHARGER SYSTEM (1CD-FTV)

Equipment

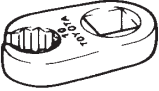

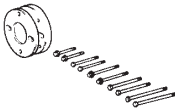
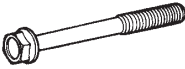





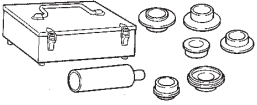


Vacuum gauge	
Voltmeter	
Ohmmeter	
Service wire harness	
Torque wrench	
Slide calipers	
Radiator cap testor	
Vernier calipers	
Hand-held vacuum pump	
Wooden block	

# LUBRICATION


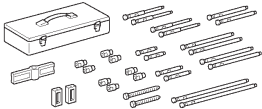

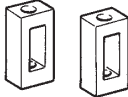
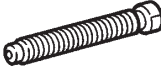
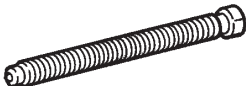

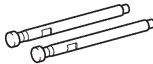
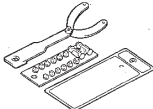
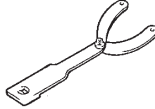
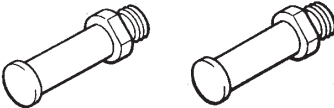
## PREPARATION

### SST


022K9-01

	09023-12900	Union Nut Wrench 19mm	OIL PUMP ASSY(1AZ-FSE)
	09032-00100	Oil Pan Seal Cutter	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	09213-54015	Crankshaft Pulley Holding Tool	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(90105-08076)	Bolt	OIL PUMP ASSY(1CD-FTV)
	(91651-60855)	Bolt	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE)
	09223-46011	Crankshaft Front Oil Seal Replacer	OIL PUMP ASSY(1CD-FTV)
	09228-06501	Oil Filter Wrench	OIL FILTER SUB-ASSY(1AZ-FE) OIL FILTER SUB-ASSY(1AZ-FSE) OIL FILTER SUB-ASSY(1ZZ-FE/3ZZ-FE)
	09228-10002	Oil Filter Wrench	OIL FILTER SUB-ASSY(1CD-FTV)
	09249-63010	Torque Wrench Adaptor	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE)
	09316-60011	Transmission & Transfer Bearing Replacer	OIL PUMP ASSY(1CD-FTV)
	(09316-00011)	Replacer Pipe	OIL PUMP ASSY(1CD-FTV)
	(09316-00021)	Replacer "A"	OIL PUMP ASSY(1CD-FTV)

## PREPARATION – LUBRICATION

	09330-00021 Companion Flange Holding Tool	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	09950-50013 Puller C Set	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(09951-05010) Hanger 150	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(09952-05010) Slide Arm	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(09953-05010) Center Bolt 100	OIL PUMP ASSY(1CD-FTV)
	(09953-05020) Center Bolt 150	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(09954-05021) Claw No.2	OIL PUMP ASSY(1AZ-FE) OIL PUMP ASSY(1AZ-FSE) OIL PUMP ASSY(1CD-FTV)
	(09954-05031) Claw No.3	OIL PUMP ASSY(1CD-FTV)
	09960-10010 Variable Pin Wrench Set	OIL PUMP ASSY(1CD-FTV)
	(09962-01000) Variable Pin Wrench Arm Assy	OIL PUMP ASSY(1CD-FTV)
	(09963-01000) Pin 10	OIL PUMP ASSY(1CD-FTV)

## Recommended Tools

	09216-00021 Belt Tension Gauge	OIL PUMP ASSY(1CD-FTV)
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## Equipment

Radiator cap tester	
Torque wrench	
Wooden block	

**SSM**

08826-00080 Seal Packing Black or equivalent (FIPG)	OIL PUMP ASSY(1CD-FTV)
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**Lubricant**

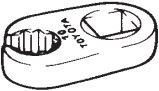



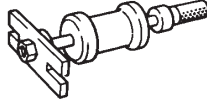
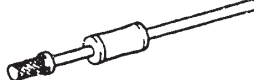

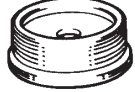
Item	Capacity	Classification
Oil grade (gasoline engine)	–	API grade SJ "Energy-Conserving", SL "Energy-Conserving" multigrade engine oil or ILSAC multi-grade engine oil
Oil grade (Diesel engine)	–	ACEA B1, API CF-4 or CF (You may also use API CE or CD.)
Drain and refill (1ZZ-FE/3ZZ-FE) w/ oil filter change w/o oil filter change	3.7 liters (3.9 US qts, 3.3 Imp. qts) 3.5 liters (3.7 US qts, 3.1 Imp. qts)	–
Drain and refill (1AZ-FE/1AZ-FSE) w/ oil filter change w/o oil filter change	4.2 liters (4.4 US qts, 3.7 Imp. qts) 4.0 liters (4.2 US qts, 3.5 Imp. qts)	–
Drain and refill (1CD-FTV) w/ oil filter change w/o oil filter change	5.9 liters (6.2 US qts, 5.2 Imp. qts) 5.3 liters (5.6 US qts, 4.7 Imp. qts)	–
Dry fill (1ZZ-FE/3ZZ-FE)	4.2 liters (4.4 US qts, 3.7 Imp. qts)	–
Dry fill (1AZ-FE/1AZ-FSE)	4.9 liters (5.2 US qts, 4.3 Imp. qts)	–
Dry fill (1CD-FTV)	6.7 liters (7.1 US qts, 5.9 Imp. qts)	–

# MANUAL TRANSMISSION/TRANSAXLE

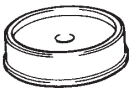

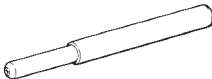
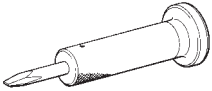
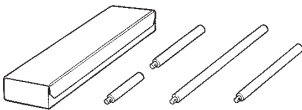

## PREPARATION

022KY-01

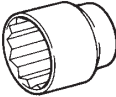
### SST

	09023-00100	Union Nut Wrench 10 mm	MANUAL ASSY(1CD-FTV)	TRANSAXLE
	09023-12700	Union Nut Wrench 17mm	MANUAL ASSY(1AZ-FE/1AZ-FSE) MANUAL ASSY(1CD-FTV)	TRANSAXLE TRANSAXLE
	09308-00010	Oil Seal Puller	FRONT SEAL(C50/C250) FRONT SEAL(E354/E357)	DIFFERENTIAL OIL DIFFERENTIAL OIL
	09520-01010	Drive Shaft Remover Attachment	MANUAL ASSY(1AZ-FE/1AZ-FSE) MANUAL ASSY(1CD-FTV) MANUAL ASSY(1ZZ-FE/3ZZ-FE) FRONT SEAL(C50/C250) FRONT SEAL(E354/E357)	TRANSAXLE TRANSAXLE TRANSAXLE OIL OIL
	09520-24010	Differential Side Gear Shaft Puller	MANUAL ASSY(1AZ-FE/1AZ-FSE) MANUAL ASSY(1CD-FTV) MANUAL ASSY(1ZZ-FE/3ZZ-FE) FRONT SEAL(C50/C250) FRONT SEAL(E354/E357)	TRANSAXLE TRANSAXLE TRANSAXLE OIL OIL
	(09520-32040)	Shocker Set	MANUAL ASSY(1AZ-FE/1AZ-FSE) MANUAL ASSY(1CD-FTV) MANUAL ASSY(1ZZ-FE/3ZZ-FE) FRONT SEAL(C50/C250) FRONT SEAL(E354/E357)	TRANSAXLE TRANSAXLE TRANSAXLE OIL OIL
	09554-14010	Differential Oil Seal Replacer	FRONT SEAL(C50/C250)	DIFFERENTIAL OIL
	09608-10010	Steering Knuckle Oil Seal Replacer	FRONT SEAL(E354/E357)	DIFFERENTIAL OIL

## PREPARATION – MANUAL TRANSMISSION/TRANSAXLE

	09608-32010	Steering Knuckle Oil Seal Replacer	FRONT DIFFERENTIAL OIL SEAL(E354/E357)
	09628-62011	Boll Joint Puller	MANUAL TRANSAXLE ASSY(1AZ-FE/1AZ-FSE) MANUAL TRANSAXLE ASSY(1CD-FTV) MANUAL TRANSAXLE ASSY(1ZZ-FE/3ZZ-FE) FRONT DIFFERENTIAL OIL SEAL(C50/C250) FRONT DIFFERENTIAL OIL SEAL(E354/E357)
	09670-00010	Front Crossmember Guide Tool	MANUAL TRANSAXLE ASSY(1AZ-FE/1AZ-FSE) MANUAL TRANSAXLE ASSY(1CD-FTV) MANUAL TRANSAXLE ASSY(1ZZ-FE/3ZZ-FE)
	09930-00010	Drive Shaft Nut Chisel	MANUAL TRANSAXLE ASSY(1AZ-FE/1AZ-FSE) MANUAL TRANSAXLE ASSY(1CD-FTV) MANUAL TRANSAXLE ASSY(1ZZ-FE/3ZZ-FE) FRONT DIFFERENTIAL OIL SEAL(C50/C250) FRONT DIFFERENTIAL OIL SEAL(E354/E357)
	09950-70010	Handle Set	FRONT DIFFERENTIAL OIL SEAL(C50/C250) FRONT DIFFERENTIAL OIL SEAL(E354/E357)
	(09951-07200)	Handle 200	FRONT DIFFERENTIAL OIL SEAL(C50/C250) FRONT DIFFERENTIAL OIL SEAL(E354/E357)

## Recommended Tools

	09011-12301	Socket Wrench 30 mm	MANUAL TRANSAXLE ASSY(1AZ-FE/1AZ-FSE) MANUAL TRANSAXLE ASSY(1CD-FTV) MANUAL TRANSAXLE ASSY(1ZZ-FE/3ZZ-FE) FRONT DIFFERENTIAL OIL SEAL(C50/C250) FRONT DIFFERENTIAL OIL SEAL(E354/E357)
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**Equipment**

Torque wrench	
Hexagon wrench (6 mm)	


**Lubricant**

Item	Capacity	Classification
C50, C250 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
E354, E357 Manual Transaxle oil (w/ Differential oil)	2.5 liters (2.6 US qts, 2.2 Imp. qts)	API GL-4 or GL-5 SAE 75W-90



PARKING BRAKE  
PREPARATION  
SST

022JT-01

	09718-00010 Shoe Hold Down Spring Driver	PARKING BRAKE ASSY PARKING BRAKE CABLE ASSY NO.3
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Recomended Tools

	09070-20010 Moulding Remover	PARKING BRAKE CABLE ASSY NO.1 PARKING BRAKE LEVER SUB-ASSY
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Equipment

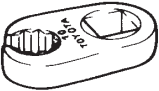
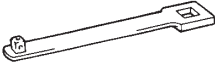
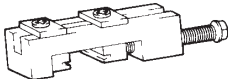
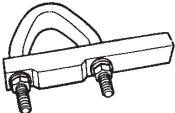
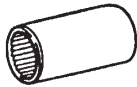

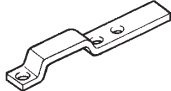
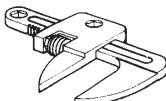
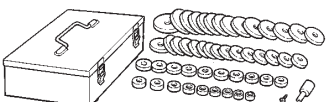

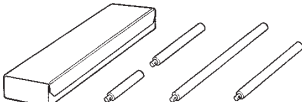

Torque wrench	
Slide calipers	

# POWER STEERING

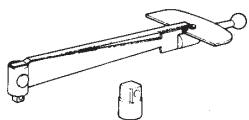

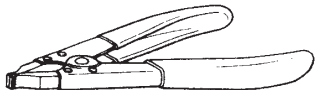
## PREPARATION

### SST

022KE-01

	09023-12700	Union Nut Wrench 17mm	RACK & PINION POWER STEERING GEAR ASSY VANE PUMP ASSY(1CD-FTV)
	09249-63010	Torque Wrench Adaptor	VANE PUMP ASSY(AZ Series)
	09521-24010	Rear Axle Shaft Puller	STEERING GEAR ASSY RACK & PINION POWER STEERING GEAR ASSY
	09612-00012	Rack & Pinion Steering Rack Housing Stand	STEERING GEAR ASSY
	09616-00011	Steering Worm Bearing Adjusting Socket	STEERING GEAR ASSY
	09630-00014	Power Steering Gear Housing Overhaul Tool Set	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	(09631-00132)	Vane Pump Bracket	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	09922-10010	Variable Open Wrench	STEERING GEAR ASSY
	09950-60010	Replacer Set	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	(09951-00280)	Replacer 28	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	09950-70010	Handle Set	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	(09951-07100)	Handle 100	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)

## Recommended Tools

	09025-00010 Torque Wrench (30 kgf-cm)	STEERING GEAR ASSY RACK & PINION POWER STEERING GEAR ASSY VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)
	09090-04020 Engine Sling Device	STEERING GEAR ASSY RACK & PINION POWER STEERING GEAR ASSY
	09905-00012 Snap Ring No.1 Expander	VANE PUMP ASSY(1CD-FTV) VANE PUMP ASSY(AZ Series)

## Equipment

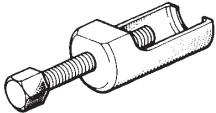
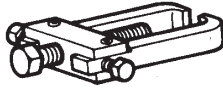
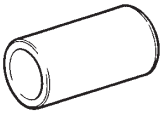
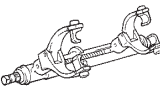
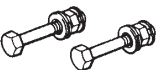
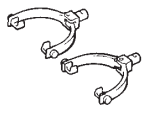
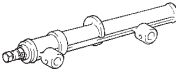

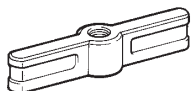
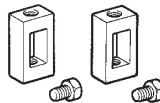

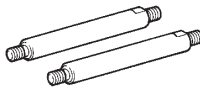
Caliper gauge	Vane pump assy
Belt tension gauge	Vane pump assy
Vernier calipers	Vane pump assy
Feeler gauge	Vane pump assy
Micrometer	Vane pump assy
Torque wrench	

# REAR SUSPENSION

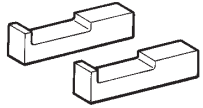

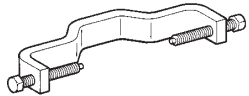
## PREPARATION

### SST

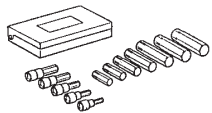
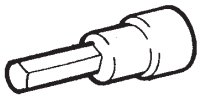
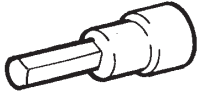
022L8-01

	09610-20012	Pitman Arm Puller	REAR SUSPENSION ARM ASSY NO.1 LH LOWER CONTROL ARM ASSY LH
	09628-62011	Bolt Joint Puller	REAR SUSPENSION ARM ASSY NO.1 LH
	09632-36010	Steering Vane Pump Bearing Replacer	REAR SUSPENSION ARM ASSY NO.1 LH
	09727-30021	Coil Spring Compressor	REAR SHOCK ABSORBER WITH COIL SPRING
	(09727-00010)	Bolt Set	REAR SHOCK ABSORBER WITH COIL SPRING
	(09727-00021)	Arm Set	REAR SHOCK ABSORBER WITH COIL SPRING
	(09727-00031)	Compressor	REAR SHOCK ABSORBER WITH COIL SPRING
	09950-40011	Puller B Set	REAR SUSPENSION ARM ASSY NO.1 LH
	(09951-04010)	Hanger 150	REAR SUSPENSION ARM ASSY NO.1 LH
	(09952-04010)	Slide Arm	REAR SUSPENSION ARM ASSY NO.1 LH
	(09953-04030)	Center Bolt 200	REAR SUSPENSION ARM ASSY NO.1 LH
	(09954-04020)	Arm 100	REAR SUSPENSION ARM ASSY NO.1 LH

## PREPARATION – REAR SUSPENSION

	(09955-04051) Claw No.5	REAR SUSPENSION ARM ASSY NO.1 LH
	(09957-04010) Attachment	REAR SUSPENSION ARM ASSY NO.1 LH
	(09958-04011) Holder	REAR SUSPENSION ARM ASSY NO.1 LH

## Recommended Tools

	09040-00011 Hexagon Wrench Set	REAR SHOCK ABSORBER WITH COIL SPRING REAR SUSPENSION ARM ASSY NO.1 LH STABILIZER BAR REAR
	(09043-20050) Socket Hexagon Wrench 5	REAR SHOCK ABSORBER WITH COIL SPRING REAR SUSPENSION ARM ASSY NO.1 LH STABILIZER BAR REAR
	(09043-20060) Socket Hexagon Wrench 6	REAR SHOCK ABSORBER WITH COIL SPRING

## Equipment

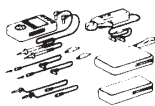
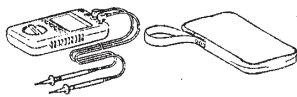
Torque wrench	
Dial indicator with magnetic base	
Wheel balancer	
Tire pressure gauge	
Alignment tester	
Toe-in gauge	
Camber-caster-kingpin gauge	
Drill	

# SEAT

## PREPARATION

022L6-01

### Recomended Tools

	09082-00050 TOYOTA Electrical Tester Set	FRONT POWER SEAT CONTROL SYSTEM SEAT HEATER SYSTEM
	09082-00040 TOYOTA Electrical Tester	FRONT POWER SEAT CONTROL SYSTEM SEAT HEATER SYSTEM

### Equipment

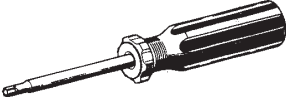

Hog ring	
Hog ring pliers	
Tape	To avoid surface damage
Torque wrench	

# SLIDING ROOF/CONVERTIBLE

## PREPARATION

022KO-01

### Recomended Tools

	09041-00020 Torx Driver T25	SLIDING ROOF
	09082-00040 TOYOTA Electrical Tester	SLIDING ROOF SYSTEM

### Equipment


Torque wrench	
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STARTING & CHARGING


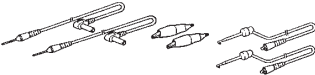

PREPARATION

022J9-01

SST

	09249-63010 Torque Wrench Adaptor	GENERATOR ASSY(1AZ-FE/1AZ-FSE)
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Recomended Tools

	09082-00040 TOYOTA Electrical Tester	STARTING SYSTEM(1AZ-FE) STARTING SYSTEM(1AZ-FSE) STARTING SYSTEM (1ZZ-FE/3ZZ-FE)
	(09083-00150) Test Lead Set	STARTING SYSTEM(1AZ-FE) STARTING SYSTEM(1AZ-FSE) STARTING SYSTEM (1ZZ-FE/3ZZ-FE)
	09216-00021 Belt Tension Gauge	GENERATOR ASSY(1CD-FTV)

Equipment

Slide calipers	
Ammeter(A)	
Ohmmeter	
Radiator cap tester	
Torque wrench	
Service Wire Harness	

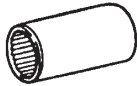
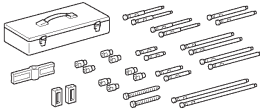
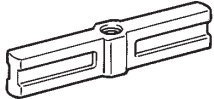
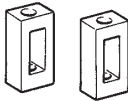
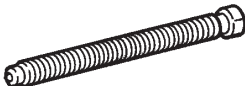



# STEERING COLUMN

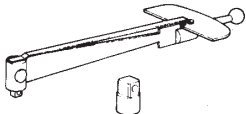
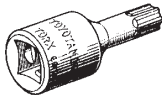
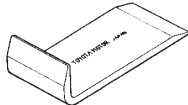
## PREPARATION

022JS-01

### SST

	09616-00011 Steering Worm Bearing Adjusting Socket	STEERING COLUMN ASSY
	09950-50013 Puller C Set	STEERING COLUMN ASSY
	(09951-05010) Hanger 150	STEERING COLUMN ASSY
	(09952-05010) Slide Arm	STEERING COLUMN ASSY
	(09953-05020) Center Bolt 150	STEERING COLUMN ASSY
	(09954-05021) Claw No.2	STEERING COLUMN ASSY

### Recommended Tools

	09025-00010 Torque Wrench (30 kgf-cm)	STEERING COLUMN ASSY
	09042-00010 Torx Socket T30	STEERING COLUMN ASSY
	09070-20010 Moulding Remover	STEERING COLUMN ASSY POWER STEERING ECU ASSY

### EQUIPMENT

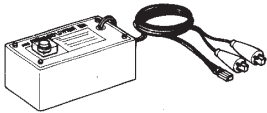
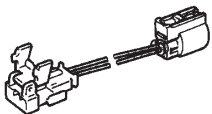

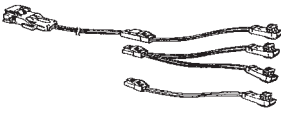
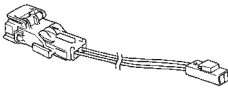


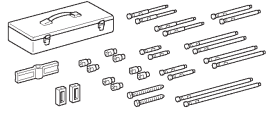
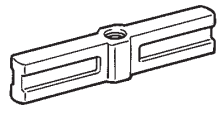
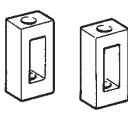
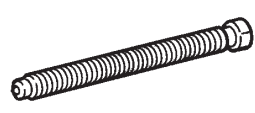

Torque wrench	
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# SUPPLEMENTAL RESTRAINT SYSTEM

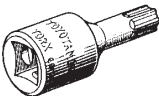
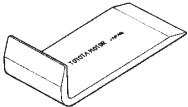
## PREPARATION

### SST

022L5-01

	09082-00700	SRS Airbag Deployment Tool	HORN BUTTON ASSY CURTAIN SHIELD AIR BAG ASSY LH FRONT SEAT AIRBAG ASSY LH INSTRUMENT PANEL PASSENGER AIR BAG ASSY INSTRUMENT PANEL AIR BAG ASSY
	09082-00750	Airbag Deployment Wire Sub-harness No.3	FRONT SEAT AIRBAG ASSY LH
	09082-00780	Airbag Deployment Wire Sub-harness No.6	HORN BUTTON ASSY INSTRUMENT PANEL PASSENGER AIR BAG ASSY
	09082-00802	Airbag Deployment Wire Sub-Harness No. 8	HORN BUTTON ASSY CURTAIN SHIELD AIR BAG ASSY LH INSTRUMENT PANEL AIR BAG ASSY
	(09082-10801)	Wire A	HORN BUTTON ASSY CURTAIN SHIELD AIR BAG ASSY LH INSTRUMENT PANEL AIR BAG ASSY
	(09082-20801)	Wire B	CURTAIN SHIELD AIR BAG ASSY LH INSTRUMENT PANEL AIR BAG ASSY
	(09082-30801)	Wire C	HORN BUTTON ASSY
	09950-50013	Puller C Set	SPIRAL CABLE SUB-ASSY
	(09951-05010)	Hanger 150	SPIRAL CABLE SUB-ASSY
	(09952-05010)	Slide Arm	SPIRAL CABLE SUB-ASSY
	(09953-05020)	Center Bolt 150	SPIRAL CABLE SUB-ASSY
	(09954-05021)	Claw No.2	SPIRAL CABLE SUB-ASSY

## Recommended Tools

	09042-00010 Torx Socket T30	HORN BUTTON ASSY SPIRAL CABLE SUB-ASSY
	09070-20010 Moulding Remover	AIR BAG SENSOR ASSY CENTER

## Equipment

Torque wrench	
Bolt Length: 35.0 mm (1.378 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.: 360 mm (14.17 in.)	Airbag disposal
Tire with disc wheel Width: 185 mm (7.28 in.) Inner diam.: 360 mm (14.17 in.)	Airbag disposal
Plastic bag	Airbag disposal

# TIRE & WHEEL

## PREPARATION

022KG-01

### Equipment

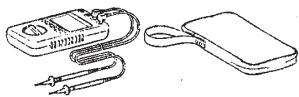
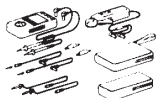
Tire pressure gauge	
Dial indicator with magnetic base	
Wheel balancer	

# VEHICLE CONTROL SYSTEM

## PREPARATION

022L3-01

### Recomended Tools


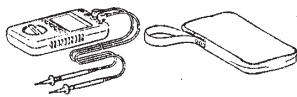
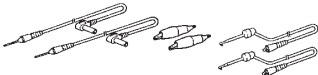

	09082-00040    TOYOTA Electrical Tester	IGNITION OR STARTER SWITCH ASSY
	09082-00050    TOYOTA Electrical Tester Set	IGNITION OR STARTER SWITCH ASSY

# WINDSHIELD/WINDOWGLASS/MIRROR

## PREPARATION

022L7-01

### Recommended Tools

	09070-20010 Moulding Remover	WINDSHIELD GLASS
	09082-00040 TOYOTA Electrical Tester	POWER WINDOW CONTROL SYSTEM WINDOW DEFOGGER SYSTEM POWER MIRROR CONTROL SYSTEM
	(09083-00150) Test Lead Set	POWER WINDOW CONTROL SYSTEM
	(09083-00350) AC/DC 400 A Probe	POWER WINDOW CONTROL SYSTEM

### Equipment

Knife	
Piano wire	Windshield
Plastic sheet	To avoid surface damage.
Sealer gun	
Tape	To avoid surface damage.
Torque wrench	
Wooden block or similar object	For tying both piano wire ends

### SSM


08850-00065 Butyl Tape Set	INNER REAR VIEW MIRROR ASSY
08850-00801 Windshield Glass Adhesive Set or equivalent	WINDSHIELD GLASS BACK DOOR GLASS(LIFTBACK MODELS) BACK WINDOW GLASS(SEDAN MODELS) QUARTER WINDOW ASSY LH(WAGON MODELS) BACK DOOR GLASS(WAGON MODELS)

# WIPER & WASHER

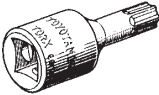


## PREPARATION

### SST

022KW-01

	09843-18040    Diagnosis Check Wire No.2	WIPER AND WASHER SYSTEM
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### Recomended Tools

	09042-00010    Torx Socket T30	WINDSHIELD WIPER MOTOR ASSY
	09082-00040    TOYOTA Electrical Tester	WIPER AND WASHER SYSTEM
	(09083-00150)    Test Lead Set	WIPER AND WASHER SYSTEM

### Equipment

Torque wrench	
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