

2AZ-FE ENGINE CONTROL SYSTEM

RECOMMENDED TOOLS

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

PP

PP-2

PREPARATION – 2AZ-FE ENGINE CONTROL SYSTEM

EQUIPMENT

|                      |  |
|----------------------|--|
| Ohmmeter             |  |
| Radiator cap tester  |  |
| Service wire harness |  |
| Torque wrench        |  |

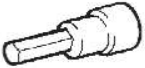
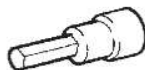
PP

PP-2

PREPARATION – 3MZ-FE ENGINE CONTROL SYSTEM

3MZ-FE ENGINE CONTROL SYSTEM

RECOMMENDED TOOLS

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09040-00011   | Hexagon Wrench Set       |  |
|    | (09043-20050) | Socket Hexagon Wrench 5  |  |
|    | (09043-20080) | Socket Hexagon Wrench 8  |  |
|    | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |

PP

EQUIPMENT

|                      |  |
|----------------------|--|
| Ohmmeter             |  |
| Radiator cap tester  |  |
| Service Wire Harness |  |
| Torque wrench        |  |



## PP-6

## PREPARATION – 2AZ-FE ENGINE MECHANICAL

## RECOMMENDED TOOLS

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09011-12301   | Socket Wrench 30 mm      |  |
|    | 09031-00040   | Pin Punch .              |  |
|    | 09040-00011   | Hexagon Wrench Set       |  |
|    | (09043-20060) | Socket Hexagon Wrench 6  |  |
|   | (09043-20100) | Socket Hexagon Wrench 10 |  |
|  | 09043-50100   | Bi-hexagon Wrench 10 mm  |  |
|  | 09090-04020   | Engine Sling Device      |  |
|  | 09200-00010   | Engine Adjust Kit        |  |

PP

## PREPARATION – 2AZ-FE ENGINE MECHANICAL

PP-7

## EQUIPMENT

|                           |                                 |
|---------------------------|---------------------------------|
| Abrasive compound         | Valve                           |
| Brush                     | Piston                          |
| Caliper gauge             |                                 |
| Carbide cutter            |                                 |
| CO/HC meter               |                                 |
| Compression gauge         |                                 |
| Connecting rod aligner    |                                 |
| Cylinder gauge            |                                 |
| Dial indicator            |                                 |
| Dye penetrant             |                                 |
| Engine tune-up tester     |                                 |
| Groove cleaning tool      | Piston ring groove              |
| Heater                    |                                 |
| Hexagon wrench (1.5 mm)   | Timing belt tensioner           |
| Micrometer                |                                 |
| Pin hole grinder          | Connecting rod bushing          |
| Piston ring compressor    |                                 |
| Piston ring expander      |                                 |
| Plastigage                |                                 |
| Precision straight edge   |                                 |
| Press                     |                                 |
| Reamer                    | Cylinder                        |
| Ridge reamer              | Cylinder                        |
| Soft brush                | Cylinder head<br>Cylinder block |
| Solvent                   |                                 |
| Spring tester             | Valve spring                    |
| Steel square              | Valve spring                    |
| Thermometer               |                                 |
| Torque wrench             |                                 |
| Valve seat cutter         |                                 |
| Valve guide bushing brush |                                 |
| V-block                   |                                 |
| Vernier calipers          |                                 |
| Wire brush                | Valve<br>Cylinder head          |

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PP-8

PREPARATION – 2AZ-FE ENGINE MECHANICAL

SSM

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

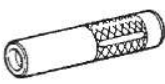
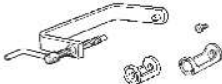
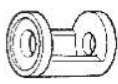
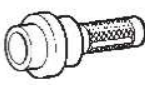
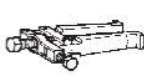
PP

## PREPARATION – 2AZ-FE ENGINE MECHANICAL

PP-3

## 2AZ-FE ENGINE MECHANICAL

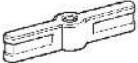
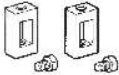
## SST

|                                                                                     |               |                                            |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------------------------|--|
|    | 09032-00100   | Oil Pan Seal Cutter                        |  |
|    | 09201-10000   | Valve Guide Bushing Remover & Replacer Set |  |
|    | (09201-01050) | Valve Guide Bushing Remover & Replacer 5   |  |
|    | 09201-41020   | Valve Stem Oil Seal Replacer               |  |
|  | 09202-70020   | Valve Spring Compressor                    |  |
|  | (09202-00010) | Attachment                                 |  |
|  | 09223-15030   | Oil Seal & Bearing Replacer                |  |
|  | 09223-22010   | Crankshaft Front Oil Seal Replacer         |  |
|  | 09228-06501   | Oil Filter Wrench                          |  |
|  | 09249-63010   | Torque Wrench Adaptor                      |  |
|  | 09308-10010   | Oil Seal Puller                            |  |

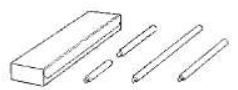
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## PP-4

## PREPARATION – 2AZ-FE ENGINE MECHANICAL

|                                                                                     |               |                               |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------|--|
|    | 09309-37010   | Transmission Bearing Replacer |  |
|    | 09628-62011   | Boll Joint Puller             |  |
|    | 09843-18030   | Tacho-pulse Pickup Wire No.2  |  |
|    | 09843-18040   | Diagnosis Check Wire No.2     |  |
|    | 09930-00010   | Drive Shaft Nut Chisel        |  |
|  | 09950-40011   | Puller B Set                  |  |
|  | (09951-04010) | Hanger 150                    |  |
|  | (09952-04010) | Slide Arm                     |  |
|  | (09953-04030) | Center Bolt 200               |  |
|  | (09954-04010) | Arm 25                        |  |
|  | (09955-04041) | Claw No.4                     |  |
|  | (09957-04010) | Attachment                    |  |
|                                                                                     | (91111-51014) | Bolt                          |  |

**PREPARATION – 2AZ-FE ENGINE MECHANICAL****PP-5**

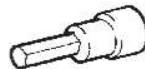
|                                                                                     |               |                              |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------|--|
|    | 09950-60010   | Replacer Set                 |  |
|    | (09951-00200) | Replacer 20                  |  |
|    | 09950-70010   | Handle Set                   |  |
|    | (09951-07100) | Handle 100                   |  |
|    | 09960-10010   | Variable Pin Wrench Set      |  |
|  | (09962-01000) | Variable Pin Wrench Arm Assy |  |
|  | (09963-00700) | Pin 7                        |  |
|  | (09963-01000) | Pin 10                       |  |

**PP**

## PP-12

## PREPARATION – 3MZ-FE ENGINE MECHANICAL

## RECOMMENDED TOOLS

|                                                                                     |               |                            |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------|--|
|    | 09011-12301   | Socket Wrench 30 mm        |  |
|    | 09040-00011   | Hexagon Wrench Set         |  |
|    | (09043-20050) | Socket Hexagon Wrench 5    |  |
|    | (09043-20060) | Socket Hexagon Wrench 6    |  |
|   | (09043-20080) | Socket Hexagon Wrench 8    |  |
|  | (09043-20100) | Socket Hexagon Wrench 10   |  |
|  | (09043-20120) | Socket Hexagon Wrench 12   |  |
|  | (09043-30140) | Straight Hexagon Wrench 14 |  |
|  | 09090-04020   | Engine Sling Device        |  |
|  | 09200-00010   | Engine Adjust Kit          |  |
|  | 09904-00010   | Expander Set               |  |

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PREPARATION – 3MZ-FE ENGINE MECHANICAL

PP-13

|                                                                                   |               |            |  |
|-----------------------------------------------------------------------------------|---------------|------------|--|
|  | (09904-00040) | No. 3 Claw |  |
|-----------------------------------------------------------------------------------|---------------|------------|--|

PP

## PP-14

## PREPARATION – 3MZ-FE ENGINE MECHANICAL

## EQUIPMENT

|                           |                                 |
|---------------------------|---------------------------------|
| Abrasive compound         | Valve                           |
| Brush                     | Piston                          |
| Caliper gauge             |                                 |
| Carbide cutter            |                                 |
| CO/HC meter               |                                 |
| Compression gauge         |                                 |
| Connecting rod aligner    |                                 |
| Cylinder gauge            |                                 |
| Dial indicator            |                                 |
| Dye penetrant             |                                 |
| Engine tune-up tester     |                                 |
| Groove cleaning tool      | Piston ring groove              |
| Heater                    |                                 |
| Hexagon wrench (1.5 mm)   | Timing belt tensioner           |
| Micrometer                |                                 |
| Pin hole grinder          | Connecting rod bushing          |
| Piston ring compressor    |                                 |
| Piston ring expander      |                                 |
| Plastigauge               |                                 |
| Precision straight edge   |                                 |
| Press                     |                                 |
| Reamer                    | Cylinder                        |
| Ridge reamer              | Cylinder                        |
| Soft brush                | Cylinder head<br>Cylinder block |
| Solvent                   |                                 |
| Spring tester             | Valve spring                    |
| Steel square              | Valve spring                    |
| Thermometer               |                                 |
| Torque wrench             |                                 |
| Valve seat cutter         |                                 |
| Valve guide bushing brush |                                 |
| V-block                   |                                 |
| Vernier calipers          |                                 |
| Wire brush                | Valve<br>Cylinder head          |

PREPARATION – 3MZ-FE ENGINE MECHANICAL

PP-15

SSM

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

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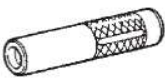
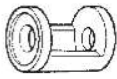
PP-8

PREPARATION – 3MZ-FE ENGINE MECHANICAL

## 3MZ-FE ENGINE MECHANICAL

### SST

PP

|                                                                                     |               |                                            |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------------------------|--|
|    | 09032-00100   | Oil Pan Seal Cutter                        |  |
|    | 09201-01055   | Valve Guide Bushing Remover & Replacer 5.5 |  |
|    | 09201-10000   | Valve Guide Bushing Remover & Replacer Set |  |
|    | 09201-41020   | Valve Stem Oil Seal Replacer               |  |
|  | 09202-70020   | Valve Spring Compressor                    |  |
|  | (09202-00010) | Attachment                                 |  |
|  | 09213-54015   | Crankshaft Pulley Holding Tool             |  |
|  | (91651-60855) | Bolt                                       |  |
|  | 09213-58013   | Crankshaft Pulley Holding Tool             |  |
|  | (91651-60855) | Bolt                                       |  |
|  | 09222-30010   | Connecting Rod Bushing Remover & Replacer  |  |

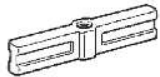
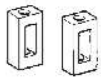
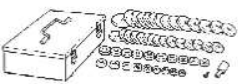
**PREPARATION – 3MZ-FE ENGINE MECHANICAL**

|                                                                                     |               |                                 |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------------|--|
|    | 09223-00010   | Cover & Seal Replacer           |  |
|    | 09223-15030   | Oil Seal & Bearing Replacer     |  |
|    | 09228-07501   | Oil Filter Wrench               |  |
|    | 09248-55040   | Valve Clearance Adjust Tool Set |  |
|    | (09248-05410) | Valve Lifter Press              |  |
|  | (09248-05420) | Valve Lifter Stopper            |  |
|  | 09330-00021   | Companion Flange Holding Tool   |  |
|  | 09628-62011   | Bolt Joint Puller               |  |
|  | 09843-18030   | Tacho-pulse Pickup Wire No.2    |  |
|  | 09843-18040   | Diagnosis Check Wire No.2       |  |
|  | 09930-00010   | Drive Shaft Nut Chisel          |  |
|  | 09950-50013   | Puller C Set                    |  |

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## PP-10

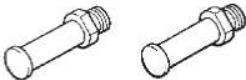
## PREPARATION – 3MZ-FE ENGINE MECHANICAL

|                                                                                     |               |                         |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------|--|
|    | (09951-05010) | Hanger 150              |  |
|    | (09952-05010) | Slide Arm               |  |
|    | (09953-05010) | Center Bolt 100         |  |
|    | (09953-05020) | Center Bolt 150         |  |
|    | (09954-05011) | Claw No.1               |  |
|  | (09954-05030) | Claw No.3               |  |
|  | (09954-05031) | Claw No.3               |  |
|  | 09950-60010   | Replacer Set            |  |
|  | (09951-00430) | Replacer 43             |  |
|  | 09950-70010   | Handle Set              |  |
|  | (09951-07100) | Handle 100              |  |
|  | 09960-10010   | Variable Pin Wrench Set |  |

PP

PREPARATION – 3MZ-FE ENGINE MECHANICAL

PP-11

|                                                                                   |               |                                  |  |
|-----------------------------------------------------------------------------------|---------------|----------------------------------|--|
|  | (09962-01000) | Variable Pin Wrench Arm Assembly |  |
|  | (09963-00500) | Pin 5                            |  |
|  | (09963-01000) | Pin 10                           |  |

PP

PP-16

PREPARATION – 2AZ-FE FUEL

EQUIPMENT

|                      |  |
|----------------------|--|
| Clip                 |  |
| Measuring Flask      |  |
| Ohmmeter             |  |
| Radiator cap tester  |  |
| Service Wire Harness |  |
| Stopwatch            |  |
| Torque wrench        |  |
| Vernier calipers     |  |

PP

PREPARATION – 2AZ-FE FUEL

PP-17

SSM

|  |             |                |  |
|--|-------------|----------------|--|
|  | 08850-00065 | Butyl Tape Set |  |
|--|-------------|----------------|--|

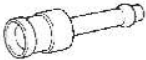
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PP-14

PREPARATION – 2AZ-FE FUEL

2AZ-FE FUEL

SST

|                                                                                     |               |                              |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------|--|
|    | 09268-41047   | Injection Measuring Tool Set |  |
|    | (09268-41110) | Adaptor                      |  |
|    | (09268-41300) | Clamp                        |  |
|    | 09268-45014   | EFI Fuel Pressure Gauge      |  |
|  | (09268-41250) | T Joint                      |  |
|  | 09842-30080   | Wire H EFI Inspection        |  |

PP

RECOMMENDED TOOLS

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

PP

PP-18

PREPARATION – 3MZ-FE FUEL

EQUIPMENT

|                      |  |
|----------------------|--|
| Clip                 |  |
| Measuring Flask      |  |
| Ohmmeter             |  |
| Radiator cap tester  |  |
| Service Wire Harness |  |
| Stopwatch            |  |
| Torque wrench        |  |
| Vernier calipers     |  |

PP

PREPARATION – 3MZ-FE FUEL

PP-19

SSM

|  |             |                |  |
|--|-------------|----------------|--|
|  | 08850-00065 | Butyl Tape Set |  |
|--|-------------|----------------|--|

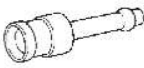
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PP-16

PREPARATION – 3MZ-FE FUEL

3MZ-FE FUEL

SST

|                                                                                     |               |                              |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------|--|
|    | 09268-41047   | Injection Measuring Tool Set |  |
|    | (09268-41110) | Adaptor                      |  |
|    | (09268-41300) | Clamp                        |  |
|    | 09268-45014   | EFI Fuel Pressure Gauge      |  |
|  | (09268-41250) | T Joint                      |  |
|  | 09842-30070   | Wire F EFI Inspection        |  |

PP

RECOMMENDED TOOLS

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

PP

PP-20

PREPARATION – 2AZ-FE EMISSION CONTROL

SSM

|  |             |                                                 |  |
|--|-------------|-------------------------------------------------|--|
|  | 08833-00070 | Adhesive 1324,<br>THREE BOND 1324 or equivalent |  |
|--|-------------|-------------------------------------------------|--|

PP

PP-18

PREPARATION – 2AZ-FE EMISSION CONTROL

2AZ-FE EMISSION CONTROL

RECOMMENDED TOOLS

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

PP

EQUIPMENT

|                       |  |
|-----------------------|--|
| Hand-held vacuum pump |  |
| Ohmmeter              |  |
| Service Wire Harness  |  |
| Torque wrench         |  |
| Vacuum gauge          |  |



PREPARATION – 3MZ-FE EMISSION CONTROL

PP-21

SSM

|  |             |                                                 |  |
|--|-------------|-------------------------------------------------|--|
|  | 08833-00070 | Adhesive 1324,<br>THREE BOND 1324 or equivalent |  |
|--|-------------|-------------------------------------------------|--|

PP

3MZ-FE EMISSION CONTROL

RECOMMENDED TOOLS

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

PP

PP-20

PREPARATION – 3MZ-FE EMISSION CONTROL

EQUIPMENT

|                       |  |
|-----------------------|--|
| Hand-held vacuum pump |  |
| Ohmmeter              |  |
| Service Wire Harness  |  |
| Torque wrench         |  |
| Vacuum gauge          |  |

PP

PP-20

PREPARATION – 3MZ-FE INTAKE

3MZ-FE INTAKE

EQUIPMENT

|                       |  |
|-----------------------|--|
| Hand-held vacuum pump |  |
| Ohmmeter              |  |
| Torque wrench         |  |

PP

# 2AZ-FE EXHAUST

## EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PP-22

PREPARATION – 3MZ-FE EXHAUST

3MZ-FE EXHAUST  
EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

EQUIPMENT

|                     |  |
|---------------------|--|
| Heater              |  |
| Radiator cap tester |  |
| Thermometer         |  |
| Torque wrench       |  |
| Vernier caliper     |  |



PP-26

PREPARATION – 2AZ-FE COOLING

COOLANT

| Item           | Capacity                              | Classification                                                             |
|----------------|---------------------------------------|----------------------------------------------------------------------------|
| Engine coolant | 6.2 liters (6.6 US qts, 5.4 Imp. qts) | "Toyota Super Long Life Coolant", "Toyota Long Life Coolant" or equivalent |

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PREPARATION – 2AZ-FE COOLING

PP-27

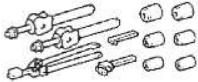
SSM

|  |             |                                         |  |
|--|-------------|-----------------------------------------|--|
|  | 08826-00080 | Seal Packing Black or equivalent (FIPG) |  |
|--|-------------|-----------------------------------------|--|

PP

2AZ-FE COOLING

SST

|                                                                                     |               |                              |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------|--|
|    | 09230-01010   | Radiator Service Tool Set    |  |
|    | (09231-01010) | Overhaul Handle              |  |
|    | (09231-01030) | Claw                         |  |
|    | 09231-14010   | Punch                        |  |
|  | 09960-10010   | Variable Pin Wrench Set      |  |
|  | (09962-01000) | Variable Pin Wrench Arm Assy |  |
|  | (09963-00700) | Pin 7                        |  |

PP

PP-24

PREPARATION – 2AZ-FE COOLING

RECOMMENDED TOOLS

|                                                                                   |             |                              |  |
|-----------------------------------------------------------------------------------|-------------|------------------------------|--|
|  | 09082-00050 | TOYOTA Electrical Tester Set |  |
|-----------------------------------------------------------------------------------|-------------|------------------------------|--|

PP

EQUIPMENT

|                     |  |
|---------------------|--|
| Heater              |  |
| Radiator cap tester |  |
| Thermometer         |  |
| Torque wrench       |  |
| Vernier caliper     |  |



PP-28

PREPARATION – 3MZ-FE COOLING

COOLANT

| Item           | Capacity                              | Classification                                                             |
|----------------|---------------------------------------|----------------------------------------------------------------------------|
| Engine coolant | 9.2 liters (9.7 US qts, 8.1 Imp. qts) | "Toyota Super Long Life Coolant", "Toyota Long Life Coolant" or equivalent |

PP

PREPARATION – 3MZ-FE COOLING

PP-29

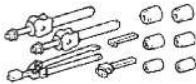
SSM

|  |             |                                         |  |
|--|-------------|-----------------------------------------|--|
|  | 08826-00080 | Seal Packing Black or equivalent (FIPG) |  |
|--|-------------|-----------------------------------------|--|

PP

3MZ-FE COOLING

SST

|                                                                                   |               |                           |  |
|-----------------------------------------------------------------------------------|---------------|---------------------------|--|
|  | 09230-01010   | Radiator Service Tool Set |  |
|  | (09231-01010) | Overhaul Handle           |  |
|  | (09231-01030) | Claw                      |  |
|  | 09231-14010   | Punch                     |  |

PP

PP-26

PREPARATION – 3MZ-FE COOLING

RECOMMENDED TOOLS

|                                                                                   |             |                              |  |
|-----------------------------------------------------------------------------------|-------------|------------------------------|--|
|  | 09082-00050 | TOYOTA Electrical Tester Set |  |
|-----------------------------------------------------------------------------------|-------------|------------------------------|--|

PP

PP-28

PREPARATION – 2AZ-FE LUBRICATION

RECOMMENDED TOOLS

|                                                                                   |             |                   |  |
|-----------------------------------------------------------------------------------|-------------|-------------------|--|
|  | 09200-00010 | Engine Adjust Kit |  |
|-----------------------------------------------------------------------------------|-------------|-------------------|--|

PP

EQUIPMENT

|                    |          |
|--------------------|----------|
| Oil pressure gauge |          |
| Straight edge      | Oil pump |
| Torque wrench      |          |



PP-30

PREPARATION – 2AZ-FE LUBRICATION

LUBRICANT

| Item             |                       | Capacity                               | Classification                                                                                                                                                                           |
|------------------|-----------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine oil       |                       |                                        |                                                                                                                                                                                          |
| Drain and refill | w/ Oil filter change  | 3.8 liters (4.0 US qts, 3.3 imp. qts)  | API grade SL, Energy-Conserving or ILSAC, multigrade engine oil is recommended. SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather. |
|                  | w/o Oil filter change | 3.6 liters (3.8 US qts, 3.2 imp. qts)  |                                                                                                                                                                                          |
| Dry fill         |                       | 4.5 liters (4.88 US qts, 4.0 imp. qts) |                                                                                                                                                                                          |

PP

PREPARATION – 2AZ-FE LUBRICATION

PP-31

SSM

|  |             |                                         |  |
|--|-------------|-----------------------------------------|--|
|  | 08826-00080 | Seal Packing Black or equivalent (FIPG) |  |
|--|-------------|-----------------------------------------|--|

PP

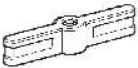
PP-26

PREPARATION – 2AZ-FE LUBRICATION

## 2AZ-FE LUBRICATION

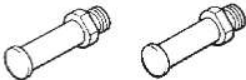
### SST

PP

|                                                                                     |               |                               |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------|--|
|    | 09032-00100   | Oil Pan Seal Cutter           |  |
|    | 09228-06501   | Oil Filter Wrench             |  |
|    | 09309-37010   | Transmission Bearing Replacer |  |
|    | 09950-40011   | Puller B Set                  |  |
|  | (09951-04010) | Hanger 150                    |  |
|  | (09953-04030) | Center Bolt 200               |  |
|  | (09954-04010) | Arm 25                        |  |
|  | (09955-04041) | Claw No.4                     |  |
|  | (09957-04010) | Attachment                    |  |
|                                                                                     | (91111-51014) | Bolt                          |  |
|  | 09960-10010   | Variable Pin Wrench Set       |  |
|  | (09962-01000) | Variable Pin Wrench Arm Assy  |  |

PREPARATION – 2AZ-FE LUBRICATION

PP-27

|                                                                                   |               |        |  |
|-----------------------------------------------------------------------------------|---------------|--------|--|
|  | (09963-01000) | Pin 10 |  |
|-----------------------------------------------------------------------------------|---------------|--------|--|

PP

PP-30

PREPARATION – 3MZ-FE LUBRICATION

EQUIPMENT

|                    |          |
|--------------------|----------|
| Oil pressure gauge |          |
| Straight edge      | Oil pump |
| Torque wrench      |          |

PP

PREPARATION – 3MZ-FE LUBRICATION

PP-31

LUBRICANT

| Item             |                       | Capacity                              | Classification                                                                                                                                                                           |
|------------------|-----------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine oil       |                       |                                       |                                                                                                                                                                                          |
| Drain and refill | w/ Oil filter change  | 4.7 liters (5.0 US qts, 4.1 imp. qts) | API grade SL, Energy-Conserving or ILSAC, multigrade engine oil is recommended. SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather. |
|                  | w/o Oil filter change | 4.5 liters (4.8 US qts, 4.0 imp. qts) |                                                                                                                                                                                          |
| Dry fill         |                       | 5.5 liters (5.8 US qts, 4.8 imp. qts) |                                                                                                                                                                                          |

PP

PP-32

PREPARATION – 3MZ-FE LUBRICATION

SSM

|             |                                        |  |
|-------------|----------------------------------------|--|
| 08826-00080 | Seal Packing Black or equivalent (FIG) |  |
|-------------|----------------------------------------|--|

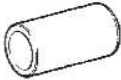
PP

PP-28

PREPARATION – 3MZ-FE LUBRICATION

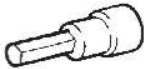
3MZ-FE LUBRICATION

SST

|                                                                                   |             |                       |  |
|-----------------------------------------------------------------------------------|-------------|-----------------------|--|
|  | 09032-00100 | Oil Pan Seal Cutter   |  |
|  | 09223-00010 | Cover & Seal Replacer |  |
|  | 09228-07501 | Oil Filter Wrench     |  |

PP

RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09040-00011   | Hexagon Wrench Set       |  |
|  | (09043-20100) | Socket Hexagon Wrench 10 |  |
|  | 09200-00010   | Engine Adjust Kit        |  |

PP

2AZ-FE IGNITION

RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |
|  | 09200-00010   | Engine Adjust Kit        |  |
|  | (09857-00031) | Spark Plug Gap Gauge     |  |

PP

PP-30

PREPARATION – 2AZ-FE IGNITION

EQUIPMENT

|                    |  |
|--------------------|--|
| Spark plug cleaner |  |
| Torque wrench      |  |

PP

PP-30

PREPARATION – 3MZ-FE IGNITION

3MZ-FE IGNITION  
RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |
|  | 09200-00010   | Engine Adjust Kit        |  |
|  | (09857-00031) | Spark Plug Gap Gauge     |  |

PP

EQUIPMENT

|                    |  |
|--------------------|--|
| Spark plug cleaner |  |
| Torque wrench      |  |



## PREPARATION – 2AZ-FE STARTING

PP-31

**2AZ-FE STARTING****RECOMMENDED TOOLS**

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

PP

PP-32

PREPARATION – 2AZ-FE STARTING

EQUIPMENT

|                      |  |
|----------------------|--|
| Ammeter(A)           |  |
| Dial indicator       |  |
| Ohmmeter             |  |
| Sandpaper (#400)     |  |
| Service Wire Harness |  |
| Torque wrench        |  |
| Vernier calipers     |  |

PP

PP-32

PREPARATION – 3MZ-FE STARTING

3MZ-FE STARTING

RECOMMENDED TOOLS

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

PP

EQUIPMENT

|                      |  |
|----------------------|--|
| Ammeter(A)           |  |
| Dial indicator       |  |
| Ohmmeter             |  |
| Sandpaper (#400)     |  |
| Service Wire Harness |  |
| Torque wrench        |  |
| Vernier calipers     |  |

PP

RECOMMENDED TOOLS

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

PP

PP-36

PREPARATION – 2AZ-FE CHARGING

EQUIPMENT

|                      |  |
|----------------------|--|
| Ammeter(A)           |  |
| Dial indicator       |  |
| Ohmmeter             |  |
| Sandpaper (#400)     |  |
| Service Wire Harness |  |
| Torque wrench        |  |
| Vernier calipers     |  |

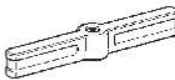
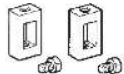
PP

## PREPARATION – 2AZ-FE CHARGING

PP-33

## 2AZ-FE CHARGING

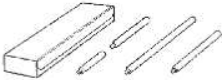
## SST

|                                                                                     |               |                                        |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------------------|--|
|    | 09820-63010   | Alternator Pulley Set Nut Wrench Set   |  |
|    | (09820-06010) | Alternator Rotor Shaft Wrench          |  |
|    | (09820-06020) | Alternator Pulley Set Nut 22 mm Wrench |  |
|    | 09950-40011   | Puller B Set                           |  |
|  | (09951-04020) | Hanger 200                             |  |
|  | (09952-04010) | Slide Arm                              |  |
|  | (09953-04020) | Center Bolt 150                        |  |
|  | (09954-04010) | Arm 25                                 |  |
|  | (09955-04071) | Claw No.7                              |  |
|  | (09957-04010) | Attachment                             |  |
|  | (09958-04011) | Holder                                 |  |

PP

PP-34

PREPARATION – 2AZ-FE CHARGING

|                                                                                   |               |              |  |
|-----------------------------------------------------------------------------------|---------------|--------------|--|
|  | 09950-60010   | Replacer Set |  |
|  | (09951-00250) | Replacer 25  |  |
|  | (09951-00470) | Replacer 47  |  |
|  | 09950-70010   | Handle Set   |  |
|  | (09951-07100) | Handle 100   |  |

PP

RECOMMENDED TOOLS

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

PP

PP-38

PREPARATION – 3MZ-FE CHARGING

EQUIPMENT

|                      |  |
|----------------------|--|
| Ammeter(A)           |  |
| Dial indicator       |  |
| Ohmmeter             |  |
| Sandpaper (#400)     |  |
| Service Wire Harness |  |
| Torque wrench        |  |
| Vernier calipers     |  |

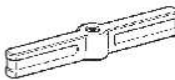
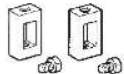
PP

## PREPARATION – 3MZ-FE CHARGING

PP-35

## 3MZ-FE CHARGING

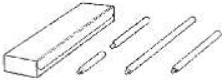
## SST

|                                                                                     |               |                                        |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------------------|--|
|    | 09820-63010   | Alternator Pulley Set Nut Wrench Set   |  |
|    | (09820-06010) | Alternator Rotor Shaft Wrench          |  |
|    | (09820-06020) | Alternator Pulley Set Nut 22 mm Wrench |  |
|    | 09950-40011   | Puller B Set                           |  |
|  | (09951-04020) | Hanger 200                             |  |
|  | (09952-04010) | Slide Arm                              |  |
|  | (09953-04020) | Center Bolt 150                        |  |
|  | (09954-04010) | Arm 25                                 |  |
|  | (09955-04071) | Claw No.7                              |  |
|  | (09957-04010) | Attachment                             |  |
|  | (09958-04011) | Holder                                 |  |

PP

PP-36

PREPARATION – 3MZ-FE CHARGING

|                                                                                   |               |              |  |
|-----------------------------------------------------------------------------------|---------------|--------------|--|
|  | 09950-60010   | Replacer Set |  |
|  | (09951-00250) | Replacer 25  |  |
|  | (09951-00470) | Replacer 47  |  |
|  | 09950-70010   | Handle Set   |  |
|  | (09951-07100) | Handle 100   |  |

PP

PP-42

## PREPARATION – U151E AUTOMATIC TRANSAXLE

## RECOMMENDED TOOLS

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09031-00030   | Pin Punch                |  |
|    | 09031-00040   | Pin Punch                |  |
|    | 09040-00011   | Hexagon Wrench Set       |  |
|    | (09043-20100) | Socket Hexagon Wrench 10 |  |
|   | 09905-00012   | Snap Ring No.1 Expander  |  |
|  | 09905-00013   | Snap Ring Pliers         |  |

PP

EQUIPMENT

|                                                  |  |
|--------------------------------------------------|--|
| Straight edge                                    |  |
| Torque wrench                                    |  |
| Vernier calipers                                 |  |
| Dial indicator with magnetic base                |  |
| Slide calipers                                   |  |
| Chain block                                      |  |
| Feeler gauge                                     |  |
| Plastic hammer                                   |  |
| Press                                            |  |
| Seal packing 2403, THREE BOND 2403 or equivalent |  |
| Seal packing 2430, THREE BOND 2430 or equivalent |  |

PP

PP-44

PREPARATION – U151E AUTOMATIC TRANSAXLE

LUBRICANT

|                           |                                    |               |
|---------------------------|------------------------------------|---------------|
| Automatic transaxle fluid |                                    |               |
| Dry fill                  | 8.8 liter (9.3 USqts, 7.7 Imp.qts) | ATF type T-IV |
| Drain and refill          | 3.5 liter (3.7 USqts, 3.1 Imp.qts) |               |

PP

PREPARATION – U151E AUTOMATIC TRANSAXLE

PP-45

SSM

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

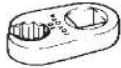
PP

## PREPARATION – U151E AUTOMATIC TRANSAXLE

PP-37

## U151E AUTOMATIC TRANSAXLE

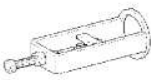
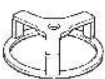
## SST

|                                                                                     |               |                                             |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------------|--|
|    | 09023-12701   | Union Nut Wrench 17mm                       |  |
|    | 09215-00013   | Crankshaft Bearing Remover & Replacer Set B |  |
|    | (09215-00471) | Camshaft Bearing Remover & Replacer         |  |
|    | 09223-15020   | Oil Seal & Bearing Replacer                 |  |
|  | 09223-15030   | Oil Seal & Bearing Replacer                 |  |
|  | 09308-00010   | Oil Seal Puller                             |  |
|  | 09316-12010   | Transfer Bearing Replacer                   |  |
|  | 09316-20011   | Transfer Bearing Replacer                   |  |
|  | 09350-32014   | TOYOTA Automatic Transmission Tool Set      |  |
|  | (09351-32010) | One-way Clutch Test Tool                    |  |
|  | (09351-32020) | Stator Stopper                              |  |

PP

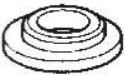
## PP-38

## PREPARATION – U151E AUTOMATIC TRANSAXLE

|                                                                                     |               |                                 |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------------|--|
|    | (09351-32070) | No.2 Piston Spring Compressor   |  |
|    | (09351-32140) | Oil Seal Replacer               |  |
|    | 09387-00020   | Direct Clutch Wrench            |  |
|    | 09387-00030   | Counter Drive Gear Holding Tool |  |
|    | 09387-00041   | Bearing Puller Assembly         |  |
|  | (09387-01010) | Claw No.1                       |  |
|  | (09387-01021) | Claw No.2                       |  |
|  | (09387-01030) | Pin                             |  |
|  | (09387-01040) | Bearing Puller Body             |  |
|  | 09387-00050   | Under Drive Gear Puller         |  |
|  | 09387-00070   | First & Reverse Brake Wrench    |  |
|  | 09387-00080   | Counter Drive Gear Nut Wrench   |  |

PP

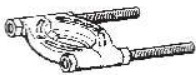
**PREPARATION – U151E AUTOMATIC TRANSAXLE****PP-39**

|                                                                                     |               |                                                 |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------|--|
|    | 09502-12010   | Differential Bearing Replacer                   |  |
|    | 09506-35010   | Differential Drive Pinion Rear Bearing Replacer |  |
|    | 09514-35011   | Rear Wheel Bearing Puller                       |  |
|    | 09550-60010   | Differential Side Bearing Replacer              |  |
|    | (09951-00490) | Replacer 49                                     |  |
|  | 09564-32011   | Differential Preload Adaptor                    |  |
|  | 09608-10010   | Steering Knuckle Oil Seal Replacer              |  |
|  | 09649-17010   | Steering Knuckle Tool                           |  |
|  | 09710-30050   | Suspension Arm Bushing Replacer                 |  |
|  | 09726-40010   | Lower Control Shaft Bearing Replacer            |  |
|  | 09930-00010   | Drive Shaft Nut Chisel                          |  |
|  | (09931-00010) | Handle                                          |  |

**PP**

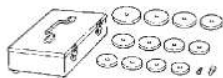
## PP-40

## PREPARATION – U151E AUTOMATIC TRANSAXLE

|                                                                                     |               |                            |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------|--|
|    | (09931-00020) | Nut Chisel                 |  |
|    | 09950-00020   | Bearing Remover            |  |
|    | 09950-00030   | Bearing Remover Attachment |  |
|    | 09950-40011   | Puller B Set               |  |
|    | (09957-04010) | Attachment                 |  |
|  | 09950-60010   | Replacer Set               |  |
|  | (09951-00230) | Replacer 23                |  |
|  | (09951-00260) | Replacer 26                |  |
|  | (09951-00320) | Replacer 32                |  |
|  | (09951-00450) | Replacer 45                |  |
|  | (09951-00490) | Replacer 49                |  |
|  | (09951-00500) | Replacer 50                |  |

PP

**PREPARATION – U151E AUTOMATIC TRANSAXLE****PP-41**

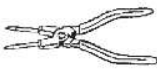
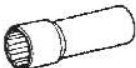
|                                                                                     |               |                   |  |
|-------------------------------------------------------------------------------------|---------------|-------------------|--|
|    | (09951-00590) | Replacer 59       |  |
|    | (09957-04010) | Attachment        |  |
|    | 09950-60020   | Replacer Set No.2 |  |
|    | (09951-00810) | Replacer 81       |  |
|    | (09951-00890) | Replacer 89       |  |
|  | (09951-00910) | Replacer 91       |  |
|  | (09951-01030) | Replacer 103      |  |
|  | 09950-70010   | Handle Set        |  |
|  | (09951-07100) | Handle 100        |  |
|  | (09951-07150) | Handle 150        |  |

**PP**

PP-48

## PREPARATION – U250E AUTOMATIC TRANSAXLE

## RECOMMENDED TOOLS

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09031-00030   | Pin Punch                |  |
|    | 09040-00011   | Hexagon Wrench Set       |  |
|    | (09043-20100) | Socket Hexagon Wrench 10 |  |
|    | 09042-00010   | Torx Socket T30          |  |
|   | 09905-00012   | Snap Ring No.1 Expander  |  |
|  | 09905-00013   | Snap Ring Pliers         |  |
|  | (09904-00090) | Claw Set                 |  |
|  | 09924-12411   | Deep Socket Wrench 41    |  |

PP

EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Dial indicator with magnetic base |  |
| Feeler gauge                      |  |
| Vernier calipers                  |  |
| Torque wrench                     |  |
| Plastic hammer                    |  |
| Straight edge                     |  |
| Press                             |  |
| Punch                             |  |

PP

PP-50

PREPARATION – U250E AUTOMATIC TRANSAXLE

LUBRICANT

|                           |                                    |               |
|---------------------------|------------------------------------|---------------|
| Automatic transaxle fluid |                                    |               |
| Dry fill                  | 8.0 liter (8.5 USqts, 7.0 Imp.qts) | ATF type T-IV |
| Drain and refill          | 3.5 liter (3.7 USqts, 3.1 Imp.qts) |               |

PP

PREPARATION – U250E AUTOMATIC TRANSAXLE

PP-51

SSM

|  |             |                                                               |  |
|--|-------------|---------------------------------------------------------------|--|
|  | 08826-00090 | Seal Packing 1281,<br>THREE BOND 1281 or equivalent<br>(FIPG) |  |
|  | 08833-00070 | Adhesive 1324,<br>THREE BOND 1324 or equivalent               |  |
|  | 08833-00080 | Adhesive 1344<br>THREE BOND 1344<br>LOCTITE 242 or equivalent |  |

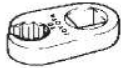
PP

## PREPARATION – U250E AUTOMATIC TRANSAXLE

PP-43

## U250E AUTOMATIC TRANSAXLE

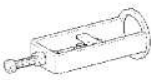
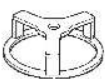
## SST

|                                                                                     |               |                                             |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------------|--|
|    | 09023-12701   | Union Nut Wrench 17mm                       |  |
|    | 09215-00013   | Crankshaft Bearing Remover & Replacer Set B |  |
|    | (09215-00471) | Camshaft Bearing Remover & Replacer         |  |
|    | 09223-15020   | Oil Seal & Bearing Replacer                 |  |
|  | 09223-15030   | Oil Seal & Bearing Replacer                 |  |
|  | 09308-00010   | Oil Seal Puller                             |  |
|  | 09316-12010   | Transfer Bearing Replacer                   |  |
|  | 09316-20011   | Transfer Bearing Replacer                   |  |
|  | 09350-32014   | TOYOTA Automatic Transmission Tool Set      |  |
|  | (09351-32010) | One-way Clutch Test Tool                    |  |
|  | (09351-32020) | Stator Stopper                              |  |

PP

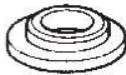
## PP-44

## PREPARATION – U250E AUTOMATIC TRANSAXLE

|                                                                                     |               |                                 |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------------|--|
|    | (09351-32070) | No.2 Piston Spring Compressor   |  |
|    | (09351-32140) | Oil Seal Replacer               |  |
|    | 09387-00020   | Direct Clutch Wrench            |  |
|    | 09387-00030   | Counter Drive Gear Holding Tool |  |
|    | 09387-00041   | Bearing Puller Assembly         |  |
|  | (09387-01010) | Claw No.1                       |  |
|  | (09387-01021) | Claw No.2                       |  |
|  | (09387-01030) | Pin                             |  |
|  | (09387-01040) | Bearing Puller Body             |  |
|  | 09387-00050   | Under Drive Gear Puller         |  |
|  | 09387-00070   | First & Reverse Brake Wrench    |  |
|  | 09387-00080   | Counter Drive Gear Nut Wrench   |  |

PP

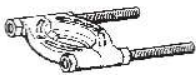
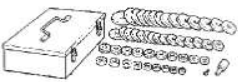
**PREPARATION – U250E AUTOMATIC TRANSAXLE****PP-45**

|                                                                                     |               |                                                 |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------|--|
|    | 09502-12010   | Differential Bearing Replacer                   |  |
|    | 09506-35010   | Differential Drive Pinion Rear Bearing Replacer |  |
|    | 09514-35011   | Rear Wheel Bearing Puller                       |  |
|    | 09550-60010   | Differential Side Bearing Replacer              |  |
|    | (09951-00490) | Replacer 49                                     |  |
|  | 09564-32011   | Differential Preload Adaptor                    |  |
|  | 09608-10010   | Steering Knuckle Oil Seal Replacer              |  |
|  | 09649-17010   | Steering Knuckle Tool                           |  |
|  | 09710-30050   | Suspension Arm Bushing Replacer                 |  |
|  | 09726-40010   | Lower Control Shaft Bearing Replacer            |  |
|  | 09930-00010   | Drive Shaft Nut Chisel                          |  |
|  | (09931-00010) | Handle                                          |  |

**PP**

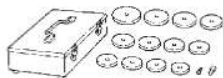
## PP-46

## PREPARATION – U250E AUTOMATIC TRANSAXLE

|                                                                                     |               |                            |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------|--|
|    | (09931-00020) | Nut Chisel                 |  |
|    | 09950-00020   | Bearing Remover            |  |
|    | 09950-00030   | Bearing Remover Attachment |  |
|    | 09950-40011   | Puller B Set               |  |
|    | (09957-04010) | Attachment                 |  |
|  | 09950-60010   | Replacer Set               |  |
|  | (09951-00230) | Replacer 23                |  |
|  | (09951-00260) | Replacer 26                |  |
|  | (09951-00320) | Replacer 32                |  |
|  | (09951-00450) | Replacer 45                |  |
|  | (09951-00490) | Replacer 49                |  |
|  | (09951-00500) | Replacer 50                |  |

PP

**PREPARATION – U250E AUTOMATIC TRANSAXLE****PP-47**

|                                                                                     |               |                   |  |
|-------------------------------------------------------------------------------------|---------------|-------------------|--|
|    | (09951-00590) | Replacer 59       |  |
|    | (09957-04010) | Attachment        |  |
|    | 09950-60020   | Replacer Set No.2 |  |
|    | (09951-00810) | Replacer 81       |  |
|    | (09951-00890) | Replacer 89       |  |
|  | (09951-00910) | Replacer 91       |  |
|  | (09951-01030) | Replacer 103      |  |
|  | 09950-70010   | Handle Set        |  |
|  | (09951-07100) | Handle 100        |  |
|  | (09951-07150) | Handle 150        |  |

**PP**

PP-52

PREPARATION – CLUTCH

EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Vernier calipers                  |  |
| Dial indicator with magnetic base |  |
| Torque wrench                     |  |

PP

PREPARATION – CLUTCH

PP-53

LUBRICANT

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

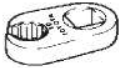
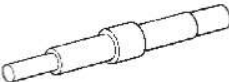
PP

PP-50

PREPARATION – CLUTCH

CLUTCH

SST

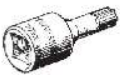
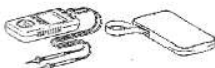
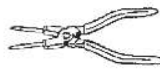
|                                                                                   |             |                                            |  |
|-----------------------------------------------------------------------------------|-------------|--------------------------------------------|--|
|  | 09023-00101 | Union Nut Wrench 10 mm                     |  |
|  | 09301-00220 | Clutch Guide Tool                          |  |
|  | 09333-00013 | Universal Joint Bearing Remover & Replacer |  |

PP

## PREPARATION – CLUTCH

PP-51

## RECOMMENDED TOOLS

|                                                                                     |               |                                                                  |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------|--|
|    | 09031-00030   | Pin Punch                                                        |  |
|    | 09040-00011   | Hexagon Wrench Set                                               |  |
|    | 09042-00010   | Torx Socket T30                                                  |  |
|    | 09082-00040   | TOYOTA Electrical Tester                                         |  |
|   | (09083-00150) | Test Lead Set                                                    |  |
|  | 09905-00013   | Snap Ring Pliers                                                 |  |
|  | 95416-00140   | Gas Leak Detector<br>(Halogen Leak Detector)<br>(DENSO Part No.) |  |

PP

RECOMMENDED TOOLS

|                                                                                     |               |                         |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------|--|
|    | 09011-12301   | Socket Wrench 30 mm     |  |
|    | 09031-00040   | Pin Punch               |  |
|    | (09043-20060) | Socket Hexagon Wrench 6 |  |
|    | 09040-00011   | Hexagon Wrench Set      |  |
|   | 09042-00050   | Torx Socket T45         |  |
|  | 09905-00012   | Snap Ring No.1 Expander |  |

PP

PP-58

PREPARATION – E351 MANUAL TRANSAXLE

EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Dial indicator with magnetic base |  |
| Torque wrench                     |  |
| Slide calipers                    |  |
| V-block                           |  |
| Micrometer                        |  |
| Dial indicator                    |  |
| Cylinder gauge                    |  |
| Feeler gauge                      |  |
| Precision straight edge           |  |

PP

LUBRICANT

| Item                                       | Capacity                              | Classification              |
|--------------------------------------------|---------------------------------------|-----------------------------|
| 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 |



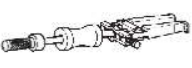
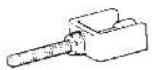
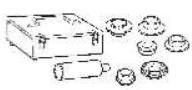
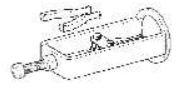
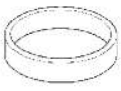
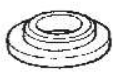
PP-52

PREPARATION – E351 MANUAL TRANSAXLE

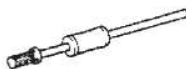
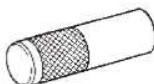
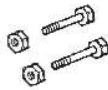
# E351 MANUAL TRANSAXLE

## SST

PP

|                                                                                     |               |                                                      |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------------------|--|
|    | 09229-55010   | Oil Cooler Relief Valve Wrench                       |  |
|    | 09308-00010   | Oil Seal Puller                                      |  |
|    | 09309-12020   | 5th Driven Gear Replacer                             |  |
|    | 09316-20011   | Transfer Bearing Replacer                            |  |
|  | 09316-60011   | Transmission & Transfer Bearing Replacer             |  |
|  | (09316-00031) | Replacer B                                           |  |
|  | (09316-00041) | Replacer C                                           |  |
|  | 09387-00041   | Bearing Puller Assembly                              |  |
|  | (09387-02010) | Oil Seal Replacer                                    |  |
|  | (09387-02020) | One-way Clutch Test Tool Set                         |  |
|  | 09506-30012   | Differential Drive Pinion Rear Bearing Cone Replacer |  |

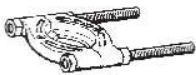
**PREPARATION – E351 MANUAL TRANSAXLE****PP-53**

|                                                                                     |               |                                         |  |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------|--|
|    | 09520-01010   | Drive Shaft Remover Attachment          |  |
|    | 09520-24010   | Differential Side Gear Shaft Puller     |  |
|    | (09520-32040) | Shocker Set                             |  |
|    | 09564-32011   | Differential Preload Adaptor            |  |
|    | 09608-00071   | Drive Pinion Rear Bearing Cone Replacer |  |
|  | 09608-06041   | Front Hub Inner Bearing Cone Replacer   |  |
|  | 09608-10010   | Steering Knuckle Oil Seal Replacer      |  |
|  | 09608-32010   | Steering Knuckle Oil Seal Replacer      |  |
|  | 09612-65014   | Steering Worm Bearing Puller            |  |
|  | (09612-01040) | Claw D                                  |  |
|  | (09612-01050) | Hanger Pin with Nut                     |  |
|  | 09631-12090   | Seal Ring Tool                          |  |

**PP**

## PP-54

## PREPARATION – E351 MANUAL TRANSAXLE

|                                                                                     |               |                            |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------|--|
|    | 09930-00010   | Drive Shaft Nut Chisel     |  |
|    | 09950-00020   | Bearing Remover            |  |
|    | 09950-00030   | Bearing Remover Attachment |  |
|    | 09950-30012   | Puller A Set               |  |
|    | (09951-03010) | Upper Plate                |  |
|  | (09953-03010) | Center Bolt                |  |
|  | (09954-03010) | Arm                        |  |
|  | (09957-04010) | Attachment                 |  |
|  | 09950-40011   | Puller B Set               |  |
|  | (09957-04010) | Attachment                 |  |
|  | 09950-50013   | Puller C Set               |  |
|  | (09957-04010) | Attachment                 |  |

PP

## PREPARATION – E351 MANUAL TRANSAXLE

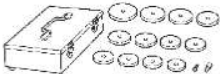
PP-55

|                                                                                     |               |              |  |
|-------------------------------------------------------------------------------------|---------------|--------------|--|
|    | 09950-60010   | Replacer Set |  |
|    | (09951-00180) | Replacer 18  |  |
|    | (09951-00280) | Replacer 28  |  |
|    | (09951-00320) | Replacer 32  |  |
|    | (09951-00420) | Replacer 42  |  |
|  | (09951-00430) | Replacer 43  |  |
|  | (09951-00490) | Replacer 49  |  |
|  | (09951-00560) | Replacer 56  |  |
|  | (09951-00570) | Replacer 57  |  |
|  | (09951-00600) | Replacer 60  |  |
|  | (09951-00680) | Replacer 68  |  |
|  | (09955-03011) | Claw No.1    |  |

PP

## PP-56

## PREPARATION – E351 MANUAL TRANSAXLE

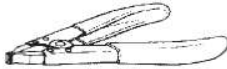
|                                                                                     |               |                   |  |
|-------------------------------------------------------------------------------------|---------------|-------------------|--|
|    | 09950-60020   | Replacer Set No.2 |  |
|    | (09951-00680) | Replacer 68       |  |
|    | (09951-00730) | Replacer 73       |  |
|    | (09951-00790) | Replacer 79       |  |
|    | (09951-00890) | Replacer 89       |  |
|  | (09951-00910) | Replacer 91       |  |
|  | 09950-70010   | Handle Set        |  |
|  | (09951-07100) | Handle 100        |  |
|  | (09951-07150) | Handle 150        |  |
|  | (09951-07200) | Handle 200        |  |

PP

PP-60

PREPARATION – DRIVE SHAFT

RECOMMENDED TOOLS

|                                                                                   |               |                         |  |
|-----------------------------------------------------------------------------------|---------------|-------------------------|--|
|  | 09011-12301   | Socket Wrench 30 mm     |  |
|  | 09040-00011   | Hexagon Wrench Set      |  |
|  | (09043-20060) | Socket Hexagon Wrench 6 |  |
|  | 09905-00012   | Snap Ring No.1 Expander |  |

PP

EQUIPMENT

|                  |  |
|------------------|--|
| Torque wrench    |  |
| Alignment tester |  |
| Toe-in gauge     |  |
| Angle gauge      |  |



PP-62

PREPARATION – DRIVE SHAFT

LUBRICANT

| Item        |                       | Capacity                      |
|-------------|-----------------------|-------------------------------|
| 2AZ-FE (MT) | Outboard joint grease | 105 to 125 g (3.7 to 4.4 oz.) |
| 2AZ-FE (AT) | Outboard joint grease | 100 to 120 g (3.5 to 4.2 oz.) |
| 3MZ-FE      | Outboard joint grease | 195 to 225 g (6.9 to 7.9 oz.) |
| 2AZ-FE      | Inboard joint grease  | 170 to 190 g (6.0 to 6.7 oz.) |
| 3MZ-FE      | Inboard joint grease  | 155 to 175 g (5.5 to 6.2 oz.) |

PP

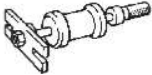
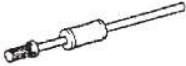
PP-58

## PREPARATION – DRIVE SHAFT

## DRIVE SHAFT

## SST

PP

|                                                                                     |               |                                     |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------|--|
|    | 09240-00020   | Wire Gauge Set                      |  |
|    | 09520-01010   | Drive Shaft Remover Attachment      |  |
|    | 09520-24010   | Differential Side Gear Shaft Puller |  |
|    | (09520-32040) | Shocker Set                         |  |
|  | 09521-24010   | Rear Axle Shaft Puller              |  |
|  | 09527-10011   | Rear Axle Shaft Bearing Remover     |  |
|  | 09608-16042   | Front Hub Bearing Adjusting Tool    |  |
|  | (09608-02021) | Bolt & Nut                          |  |
|  | (09608-02041) | Retainer                            |  |
|  | 09628-62011   | Boll Joint Puller                   |  |
|  | 09710-30021   | Suspension Bushing Tool Set         |  |

PREPARATION – DRIVE SHAFT

PP-59

PP

|                                                                                   |               |                                      |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------------------|--|
|  | (09710-03141) | Bushing Remover Base                 |  |
|  | 09726-40010   | Lower Control Shaft Bearing Replacer |  |
|  | 09930-00010   | Drive Shaft Nut Chisel               |  |
|  | 09950-00020   | Bearing Remover                      |  |

PP-62

PREPARATION – AXLE

RECOMMENDED TOOLS

|                                                                                   |             |                     |  |
|-----------------------------------------------------------------------------------|-------------|---------------------|--|
|  | 09011-12301 | Socket Wrench 30 mm |  |
|  | 09905-00013 | Snap Ring Pliers    |  |

PP

EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Torque wrench                     |  |
| Dial indicator with magnetic base |  |
| Alignment tester                  |  |
| Toe-in gauge                      |  |
| Angle gauge                       |  |



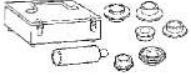
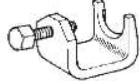
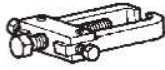
PP-60

## PREPARATION – AXLE

## AXLE

## SST

PP

|                                                                                     |               |                                          |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------|--|
|    | 09316-60011   | Transmission & Transfer Bearing Replacer |  |
|    | (09316-00011) | Replacer Pipe                            |  |
|    | (09316-00031) | Replacer B                               |  |
|    | 09520-00031   | Rear Axle Shaft Puller                   |  |
|  | 09527-17011   | Rear Axle Shaft Bearing Remover          |  |
|  | 09608-32010   | Steering Knuckle Oil Seal Replacer       |  |
|  | 09628-10011   | Ball Joint Puller                        |  |
|  | 09628-62011   | Ball Joint Puller                        |  |
|  | 09930-00010   | Drive Shaft Nut Chisel                   |  |
|  | 09950-00020   | Bearing Remover                          |  |
|  | 09950-60010   | Replacer Set                             |  |

PREPARATION – AXLE

PP-61

PP

|                                                                                     |               |                   |  |
|-------------------------------------------------------------------------------------|---------------|-------------------|--|
|    | (09951-00430) | Replacer 43       |  |
|    | (09951-00600) | Replacer 60       |  |
|    | 09950-60020   | Replacer Set No.2 |  |
|    | (09951-00810) | Replacer 81       |  |
|    | 09950-70010   | Handle Set        |  |
|  | (09951-07100) | Handle 100        |  |

PP-64

PREPARATION – SUSPENSION

EQUIPMENT

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| Torque wrench                                      |                         |
| Dial indicator with magnetic base                  |                         |
| Tire pressure gauge                                |                         |
| Alignment tester                                   |                         |
| Toe-in gauge                                       |                         |
| Angle gauge                                        |                         |
| Plastic hammer                                     |                         |
| Engine Sling Device                                |                         |
| Universal Engine Lifter                            |                         |
| Chain Block                                        |                         |
| Wheel balancer                                     |                         |
| Camber-caster-kingpin gauge                        |                         |
| Drill (Safety equipment: protective goggles, etc.) | Shock absorber disposal |

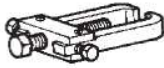
PP

PP-62

PREPARATION – SUSPENSION

SUSPENSION

SST

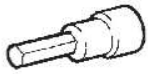
|                                                                                   |               |                        |                                                                               |
|-----------------------------------------------------------------------------------|---------------|------------------------|-------------------------------------------------------------------------------|
|  | 09628-62011   | Ball Joint Puller      | LOWER BALL JOINT ASSEMBLY<br>FRONT LH<br>STABILIZER BAR FRONT                 |
|  | 09727-30021   | Coil Spring Compressor | FRONT SHOCK ABSORBER WITH COIL SPRING<br>REAR SHOCK ABSORBER WITH COIL SPRING |
|  | (09727-00010) | Bolt Set               | FRONT SHOCK ABSORBER WITH COIL SPRING                                         |
|  | (09727-00021) | Arm Set                | FRONT SHOCK ABSORBER WITH COIL SPRING                                         |

PP

## PREPARATION – SUSPENSION

PP-63

## RECOMMENDED TOOLS

|                                                                                     |               |                          |                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 09011-12301   | Socket Wrench 30 mm      | LOWER BALL JOINT ASSEMBLY<br>FRONT LH                                                                                                                                                                                    |
|    | 09017-38120   | Deep Socket Wrench 12 mm | REAR SHOCK ABSORBER WITH COIL<br>SPRING                                                                                                                                                                                  |
|    | (09043-20050) | Socket Hexagon Wrench 5  | REAR SHOCK ABSORBER WITH COIL<br>SPRING<br>REAR SUSPENSION ARM ASSEMBLY<br>NO.1 LH<br>REAR SUSPENSION ARM ASSEMBLY<br>NO.2 LH<br>STABILIZER BAR REAR                                                                     |
|    | 09040-00011   | Hexagon Wrench Set       | FRONT SHOCK ABSORBER WITH COIL<br>SPRING<br>STABILIZER BAR FRONT<br>REAR SHOCK ABSORBER WITH COIL<br>SPRING<br>REAR SUSPENSION ARM ASSEMBLY<br>NO.1 LH<br>REAR SUSPENSION ARM ASSEMBLY<br>NO.2 LH<br>STABILIZER BAR REAR |
|  | (09043-20060) | Socket Hexagon Wrench 6  | FRONT SHOCK ABSORBER WITH COIL<br>SPRING<br>STABILIZER BAR FRONT<br>REAR SHOCK ABSORBER WITH COIL<br>SPRING                                                                                                              |

PP

PP-64

PREPARATION – TIRE AND WHEEL

TIRE AND WHEEL  
EQUIPMENT

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

PP

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

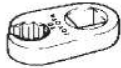
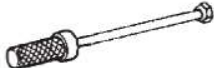
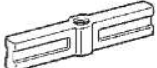


## PREPARATION – BRAKE CONTROL

PP-65

## BRAKE CONTROL

## SST

|                                                                                     |               |                                |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------------|--|
|    | 09023-00101   | Union Nut Wrench 10 mm         |  |
|    | 09520-00031   | Rear Axle Shaft Puller         |  |
|    | (09520-00040) | Shocker                        |  |
|    | 09521-00020   | Drive Shaft Boot Clamping Tool |  |
|  | 09950-00020   | Bearing Remover                |  |
|  | 09950-50013   | Puller C Set                   |  |
|  | (09951-05010) | Hanger 150                     |  |
|  | (09952-05010) | Slide Arm                      |  |
|  | (09953-05020) | Center Bolt 150                |  |
|  | (09954-05021) | Claw No.2                      |  |

PP

PP-66

PREPARATION – BRAKE CONTROL

RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09042-00010   | Torx Socket T30          |  |
|  | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |

PP

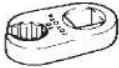
EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Feeler gauge                      |  |
| Micrometer                        |  |
| Torque wrench                     |  |
| Dial indicator with magnetic base |  |
| Slide Calipers                    |  |



BRAKE

SST

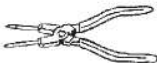
|                                                                                   |             |                               |  |
|-----------------------------------------------------------------------------------|-------------|-------------------------------|--|
|  | 09023-00101 | Union Nut Wrench 10 mm        |  |
|  | 09737-00013 | Brake Booster Push Rod Gauge  |  |
|  | 09737-00020 | Brake Booster Push Rod Wrench |  |

PP

PP-68

PREPARATION – BRAKE

RECOMMENDED TOOLS

|                                                                                   |             |                  |  |
|-----------------------------------------------------------------------------------|-------------|------------------|--|
|  | 09905-00013 | Snap Ring Pliers |  |
|-----------------------------------------------------------------------------------|-------------|------------------|--|

PP

PP-68

PREPARATION – PARKING BRAKE

PARKING BRAKE  
EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PREPARATION – STEERING COLUMN

PP-71

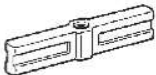
EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

STEERING COLUMN

SST

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

PP

PP-70

PREPARATION – STEERING COLUMN

RECOMMENDED TOOLS

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

PP

PP-74

PREPARATION – POWER STEERING

RECOMMENDED TOOLS

|                                                                                     |               |                           |  |
|-------------------------------------------------------------------------------------|---------------|---------------------------|--|
|    | 09025-00010   | Torque Wrench (30 kgf-cm) |  |
|    | 09040-00011   | Hexagon Wrench Set        |  |
|    | (09043-20060) | Socket Hexagon Wrench 6   |  |
|    | 09082-00040   | TOYOTA Electrical Tester  |  |
|   | (09083-00150) | Test Lead Set             |  |
|  | 09905-00012   | Snap Ring No.1 Expander   |  |

PP

EQUIPMENT

|                  |  |
|------------------|--|
| Caliper gauge    |  |
| Vernier calipers |  |
| Dial indicator   |  |
| Feeler gauge     |  |
| Micrometer       |  |
| Torque wrench    |  |

PP

PP-76

PREPARATION – POWER STEERING

LUBRICANT

| Item                                          | Capacity                             | Classification       |
|-----------------------------------------------|--------------------------------------|----------------------|
| Power steering fluid (Total)<br>2AZ-FE 3MZ-FE | 1.0 liters (1.1 US qts, 0.9 Imp.qts) | ATF DEXRON II or III |

PP

PREPARATION – POWER STEERING

PP-77

SSM

|  |             |                                                               |  |
|--|-------------|---------------------------------------------------------------|--|
|  | 08833-00080 | Adhesive 1344<br>THREE BOND 1344<br>LOCTITE 242 or equivalent |  |
|--|-------------|---------------------------------------------------------------|--|

PP

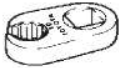
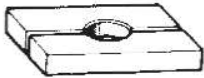
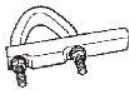
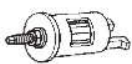
PP-70

## PREPARATION – POWER STEERING

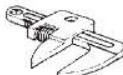
## POWER STEERING

## SST

PP

|                                                                                     |               |                                           |  |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------|--|
|    | 09023-12701   | Union Nut Wrench 17mm                     |  |
|    | 09023-38201   | Union Nut Wrench 12mm                     |  |
|    | 09249-63010   | Torque Wrench Adaptor                     |  |
|    | 09521-24010   | Rear Axle Shaft Puller                    |  |
|  | 09527-21011   | Rear Axle Shaft Bearing Remover           |  |
|  | 09612-00012   | Rack & Pinion Steering Rack Housing Stand |  |
|  | 09612-22011   | Tilt Handle Bearing Replacer              |  |
|  | 09612-24014   | Steering Gear Housing Overhaul Tool Set   |  |
|  | (09613-22011) | Steering Rack Shaft Bushing Puller        |  |
|  | 09616-00011   | Steering Worm Bearing Adjusting Socket    |  |
|  | 09628-62011   | Boll Joint Puller                         |  |

**PREPARATION – POWER STEERING****PP-71**

|                                                                                     |               |                                               |  |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------------|--|
|    | 09630-00014   | Power Steering Gear Housing Overhaul Tool Set |  |
|    | (09631-00132) | Vane Pump Bracket                             |  |
|    | 09631-10021   | Rack Stopper Wrench                           |  |
|    | 09631-12071   | Steering Rack Oil Seal Test Tool              |  |
|    | (09633-00010) | Packing                                       |  |
|  | 09631-20081   | Seal Ring Tool                                |  |
|  | 09631-33010   | Steering Rack Cover I                         |  |
|  | 09640-10010   | Power Steering Pressure Gauge Set             |  |
|  | (09641-01010) | Gauge Assembly                                |  |
|  | (09641-01020) | Attachment A                                  |  |
|  | (09641-01030) | Attachment B                                  |  |
|  | 09922-10010   | Variable Open Wrench                          |  |

**PP**

## PP-72

## PREPARATION – POWER STEERING

|                                                                                     |               |              |  |
|-------------------------------------------------------------------------------------|---------------|--------------|--|
|    | 09950-60010   | Replacer Set |  |
|    | (09951-00180) | Replacer 18  |  |
|    | (09951-00250) | Replacer 25  |  |
|    | (09951-00280) | Replacer 28  |  |
|    | (09951-00290) | Replacer 29  |  |
|  | (09951-00320) | Replacer 32  |  |
|  | (09951-00330) | Replacer 33  |  |
|  | (09951-00340) | Replacer 34  |  |
|  | (09951-00400) | Replacer 40  |  |
|  | (09951-00420) | Replacer 42  |  |
|  | (09952-06010) | Adapter      |  |
|  | 09950-70010   | Handle Set   |  |

PP

PREPARATION – POWER STEERING

PP-73

|                                                                                   |               |            |  |
|-----------------------------------------------------------------------------------|---------------|------------|--|
|  | (09951-07100) | Handle 100 |  |
|  | (09951-07150) | Handle 150 |  |
|  | (09951-07360) | Handle 360 |  |

PP

**PREPARATION – AIR CONDITIONING****PP-77****RECOMMENDED TOOLS**

|                                                                                     |               |                                                                  |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------|--|
|    | 09042-00010   | Torx Socket T30                                                  |  |
|    | 09082-00040   | TOYOTA Electrical Tester                                         |  |
|    | (09083-00150) | Test Lead Set                                                    |  |
|    | 09904-00010   | Expander Set                                                     |  |
|   | (09904-00050) | No. 4 Claw                                                       |  |
|  | 95416-00140   | Gas Leak Detector<br>(Halogen Leak Detector)<br>(DENSO Part No.) |  |

**PP**

PP-78

PREPARATION – AIR CONDITIONING

EQUIPMENT

|                                   |  |
|-----------------------------------|--|
| Voltmeter                         |  |
| Ammeter                           |  |
| Ohmmeter                          |  |
| Vinyl tape                        |  |
| Hexagon wrench (10 mm)            |  |
| Hexagon wrench (4 mm)             |  |
| Torque socket wrench (E 8)        |  |
| Vise pliers                       |  |
| Gas leak detector                 |  |
| Belt tension gauge                |  |
| Dial indicator with magnetic base |  |
| Radiator cap tester               |  |
| Torque wrench                     |  |

PP

PREPARATION – AIR CONDITIONING

PP-79

LUBRICANT

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

PP

## PREPARATION – AIR CONDITIONING

PP-75

## AIR CONDITIONING

## SST

|                                                                                     |               |                                  |  |
|-------------------------------------------------------------------------------------|---------------|----------------------------------|--|
|    | 07110-58060   | Air Conditioner Service Tool Set |  |
|    | (07117-58060) | Refrigerant Drain Service Valve  |  |
|    | (07117-58070) | T-Joint                          |  |
|    | (07117-58080) | Quick Disconnect Adapter         |  |
|  | (07117-58090) | Quick Disconnect Adapter         |  |
|  | (07117-78050) | Refrigerant Charging Gauge       |  |
|  | (07117-88060) | Refrigerant Charging Hose        |  |
|  | (07117-88070) | Refrigerant Charging Hose        |  |
|  | (07117-88080) | Refrigerant Charging Hose        |  |
|  | 09249-63010   | Torque Wrench Adaptor            |  |
|  | 09870-00015   | A/C Quick Joint Puller No.1      |  |

PP

PP-76

PREPARATION – AIR CONDITIONING

|                                                                                   |             |                                           |  |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------|--|
|  | 09870-00025 | A/C Quick Joint Puller No.2               |  |
|  | 95047-10400 | Magnet Clutch Stopper<br>(DENSO part No.) |  |

PP

PP-80

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09042-00010   | Torx Socket T30          |  |
|  | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |

PP

EQUIPMENT

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

PP

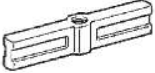
PP-78

## PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

## SUPPLEMENTAL RESTRAINT SYSTEM

## SST

PP

|                                                                                     |               |                                          |  |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------|--|
|    | 09082-00700   | SRS Airbag Deployment Tool               |  |
|    | 09082-00750   | Airbag Deployment Wire Sub-harness No.3  |  |
|    | 09082-00760   | Airbag Deployment Wire Sub-harness No.4  |  |
|    | 09082-00780   | Airbag Deployment Wire Sub-harness No.6  |  |
|  | 09082-00802   | Airbag Deployment Wire Sub-Harness No. 8 |  |
|  | (09082-10801) | Wire A                                   |  |
|  | (09082-30801) | Wire C                                   |  |
|  | 09843-18060   | SRS Check Wire                           |  |
|  | 09950-50013   | Puller C Set                             |  |
|  | (09951-05010) | Hanger 150                               |  |
|  | (09952-05010) | Slide Arm                                |  |

PREPARATION – SUPPLEMENTAL RESTRAINT SYSTEM

PP-79

|                                                                                   |               |                 |  |
|-----------------------------------------------------------------------------------|---------------|-----------------|--|
|  | (09953-05020) | Center Bolt 150 |  |
|  | (09954-05021) | Claw No.2       |  |

PP

PP-82

PREPARATION – SEAT BELT

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PP-80

PREPARATION – SEAT BELT

SEAT BELT

SST

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

PP

RECOMMENDED TOOLS

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

PP

THEFT DETERRENT SYSTEM

RECOMMENDED TOOLS

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

PP

PP-82

PREPARATION – ENGINE IMMOBILISER

ENGINE IMMOBILISER  
RECOMMENDED TOOLS

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

PP

CRUISE CONTROL  
RECOMMENDED TOOLS

|                                                                                   |             |                 |                            |
|-----------------------------------------------------------------------------------|-------------|-----------------|----------------------------|
|  | 09042-00010 | Torx Socket T30 | CRUISE CONTROL MAIN SWITCH |
|-----------------------------------------------------------------------------------|-------------|-----------------|----------------------------|

PP

PP-84

PREPARATION – CRUISE CONTROL

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PP-84

PREPARATION – LIGHTING

LIGHTING

RECOMMENDED TOOLS

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

PP

EQUIPMENT

|               |  |
|---------------|--|
| Voltmeter     |  |
| Ammeter       |  |
| Ohmmeter      |  |
| Vinyl tape    |  |
| Torque wrench |  |



PREPARATION – WIPER AND WASHER

PP-87

EQUIPMENT

|               |  |
|---------------|--|
| Voltmeter     |  |
| Ohmmeter      |  |
| Vinyl tape    |  |
| Wire brush    |  |
| Torque wrench |  |

PP

WIPER AND WASHER

SST

|                                                                                   |             |                           |                         |
|-----------------------------------------------------------------------------------|-------------|---------------------------|-------------------------|
|  | 09843-18040 | Diagnosis Check Wire No.2 | WIPER AND WASHER SYSTEM |
|-----------------------------------------------------------------------------------|-------------|---------------------------|-------------------------|

PP

PP-86

PREPARATION – WIPER AND WASHER

RECOMMENDED TOOLS

|                                                                                   |               |                          |                         |
|-----------------------------------------------------------------------------------|---------------|--------------------------|-------------------------|
|  | 09082-00040   | TOYOTA Electrical Tester | WIPER AND WASHER SYSTEM |
|  | (09083-00150) | Test Lead Set            | WIPER AND WASHER SYSTEM |

PP

PP-86

PREPARATION – DOOR LOCK

DOOR LOCK

RECOMMENDED TOOLS

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

PP

METER

RECOMMENDED TOOLS

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

PP

PP-88

PREPARATION – AUDIO / VISUAL

**AUDIO / VISUAL****RECOMMENDED TOOLS**

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09042-00010   | Torx Socket T30          |  |
|    | 09082-00040   | TOYOTA Electrical Tester |  |
|    | (09083-00150) | Test Lead Set            |  |
|    | 09904-00010   | Expander Set             |  |
|  | (09904-00060) | No. 5 Claw               |  |
|  | 09905-00013   | Snap Ring Pliers         |  |

PP

EQUIPMENT

|               |  |
|---------------|--|
| Vinyl tape    |  |
| Torque wrench |  |



NAVIGATION

RECOMMENDED TOOLS

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

PP

PP-90

PREPARATION – NAVIGATION

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PP-90

PREPARATION – HORN

HORN

RECOMMENDED TOOLS

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

PP

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|



**GARAGE DOOR OPENER**

**EQUIPMENT**

|                  |  |
|------------------|--|
| Home Link Tester |  |
|------------------|--|



PP-94

PREPARATION – WINDSHIELD / WINDOWGLASS

SSM

|             |                                             |                                                                                                                            |
|-------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 08833-00030 | Three cement black or equivalent            | WINDSHIELD GLASS (CONVERTIBLE)<br>WINDSHIELD GLASS (COUPE)<br>QUARTER WINDOW ASSEMBLY (COUPE)<br>BACK WINDOW GLASS (COUPE) |
| 08850-00801 | Windshield Glass Adhesive Set or equivalent | WINDSHIELD GLASS (CONVERTIBLE)<br>WINDSHIELD GLASS (COUPE)<br>QUARTER WINDOW ASSEMBLY (COUPE)<br>BACK WINDOW GLASS (COUPE) |

PP

PP-92

PREPARATION – WINDSHIELD / WINDOWGLASS

WINDSHIELD / WINDOWGLASS

RECOMMENDED TOOLS

|                                                                                   |               |                          |                        |
|-----------------------------------------------------------------------------------|---------------|--------------------------|------------------------|
|  | 09082-00040   | TOYOTA Electrical Tester | WINDOW DEFOGGER SYSTEM |
|  | (09083-00150) | Test Lead Set            | WINDOW DEFOGGER SYSTEM |

PP

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 |

PP

MIRROR

RECOMMENDED TOOLS

|                                                                                   |               |                          |                             |
|-----------------------------------------------------------------------------------|---------------|--------------------------|-----------------------------|
|  | 09082-00040   | TOYOTA Electrical Tester | POWER MIRROR CONTROL SYSTEM |
|  | (09083-00150) | Test Lead Set            | POWER MIRROR CONTROL SYSTEM |

PP

PP-94

PREPARATION – MIRROR

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

PP

PP-96

PREPARATION – INSTRUMENT PANEL

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
|---------------|--|

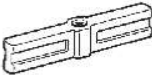
PP

PP-94

## PREPARATION – INSTRUMENT PANEL

## INSTRUMENT PANEL

## SST

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

PP

RECOMMENDED TOOLS

|                                                                                   |             |                 |                                             |
|-----------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------------|
|  | 09042-00010 | Torx Socket T30 | INSTRUMENT PANEL SAFETY PAD<br>SUB-ASSEMBLY |
|-----------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------------|

PP

SEAT

RECOMMENDED TOOLS

|                                                                                   |               |                          |  |
|-----------------------------------------------------------------------------------|---------------|--------------------------|--|
|  | 09042-00010   | Torx Socket T30          |  |
|  | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |
|  | 09200-00010   | Engine Adjust Kit        |  |

PP

PP-96

PREPARATION – SEAT

EQUIPMENT

|                |                         |
|----------------|-------------------------|
| Tacker         |                         |
| Hog ring       |                         |
| Hog ring plier |                         |
| Tape           | To avoid surface damage |
| Torque wrench  |                         |
| Scraper        |                         |

PP

PP-98

PREPARATION – ENGINE HOOD / DOOR

EQUIPMENT

|               |                         |
|---------------|-------------------------|
| Clip remover  |                         |
| Tape          | To avoid surface damage |
| Torque wrench |                         |

PP

PREPARATION – ENGINE HOOD / DOOR

PP-99

SSM

|  |             |                                                 |  |
|--|-------------|-------------------------------------------------|--|
|  | 08833-00070 | Adhesive 1324,<br>THREE BOND 1324 or equivalent |  |
|--|-------------|-------------------------------------------------|--|

PP

PP-96

PREPARATION – ENGINE HOOD / DOOR

ENGINE HOOD / DOOR

SST

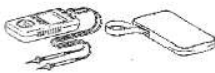
|                                                                                   |             |                                           |  |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------|--|
|  | 09804-24010 | Luggage Compartment Door Torsion Bar Tool |  |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------|--|

PP

PREPARATION – ENGINE HOOD / DOOR

PP-97

RECOMMENDED TOOLS

|                                                                                    |               |                          |  |
|------------------------------------------------------------------------------------|---------------|--------------------------|--|
|   | 09041-00020   | Torx Driver T25          |  |
|   | 09042-00010   | Torx Socket T30          |  |
|   | 09042-00020   | Torx Socket T40          |  |
|   | 09082-00040   | TOYOTA Electrical Tester |  |
|  | (09083-00150) | Test Lead Set            |  |

PP

EXTERIOR

RECOMMENDED TOOLS

|                                                                                   |             |                  |                                             |
|-----------------------------------------------------------------------------------|-------------|------------------|---------------------------------------------|
|  | 09070-20010 | Moulding Remover | FRONT DOOR WINDOW FRAME<br>MOULDING REAR LH |
|-----------------------------------------------------------------------------------|-------------|------------------|---------------------------------------------|

PP

PP-98

PREPARATION – EXTERIOR

EQUIPMENT

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

PP

PP-98

PREPARATION – INTERIOR

INTERIOR

RECOMMENDED TOOLS

|                                                                                   |             |                  |                          |
|-----------------------------------------------------------------------------------|-------------|------------------|--------------------------|
|  | 09070-20010 | Moulding Remover | ROOF HEADLINING ASSEMBLY |
|-----------------------------------------------------------------------------------|-------------|------------------|--------------------------|

PP

EQUIPMENT

|              |  |
|--------------|--|
| Clip remover |  |
|--------------|--|



PREPARATION – SLIDING ROOF

PP-101

LUBRICANT

| Item      | Capacity | Classification |
|-----------|----------|----------------|
| MP grease | -        | -              |



SLIDING ROOF

RECOMMENDED TOOLS

|                                                                                   |             |                          |                             |
|-----------------------------------------------------------------------------------|-------------|--------------------------|-----------------------------|
|  | 09041-00020 | Torx Driver T25          | SLIDING ROOF SYSTEM (COUPE) |
|  | 09082-00040 | TOYOTA Electrical Tester | SLIDING ROOF SYSTEM (COUPE) |

PP

PP-100

PREPARATION – SLIDING ROOF

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
| Clip remover  |  |

PP

PP-102

PREPARATION – CONVERTIBLE

LUBRICANT

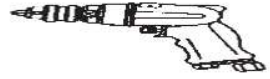
| Item      | Capacity | Classification |
|-----------|----------|----------------|
| MP grease | -        | -              |

PP

PP-100

PREPARATION – CONVERTIBLE

**CONVERTIBLE****RECOMMENDED TOOLS****PP**

|                                                                                     |               |                          |  |
|-------------------------------------------------------------------------------------|---------------|--------------------------|--|
|    | 09040-00011   | Hexagon Wrench Set       |  |
|    | (09043-20080) | Socket Hexagon Wrench 8  |  |
|    | 09041-00020   | Torx Driver T25          |  |
|    | 09042-00020   | Torx Socket T40          |  |
|  | 09050-00032   | Air Drill                |  |
|  | 09050-20010   | Air Riveter              |  |
|  | 09082-00040   | TOYOTA Electrical Tester |  |

EQUIPMENT

|               |  |
|---------------|--|
| Torque wrench |  |
| Rivet         |  |
| Staple gun    |  |
| Staple        |  |
| Clip remover  |  |
| Adhesive      |  |
| Tape          |  |

PP

CAN COMMUNICATION

RECOMMENDED TOOLS

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

PP