

MULTIPOINT FUEL INJECTION (MPI)

CONTENTS

GENERAL INFORMATION

GENERAL SPECIFICATIONS

MULTIPOINT FUEL INJECTION (MPI) SYSTEM DIAGRAM

MULTIPOINT FUEL INJECTION (MPI) SYSTEM DIAGRAM <WITH TCL>

SERVICE SPECIFICATIONS

SEALANT

SPECIAL TOOLS

TROUBLESHOOTING

DIAGNOSIS TROUBLESHOOTING FLOW

DIAGNOSIS FUNCTION

FAIL-SAFE FUNCTION REFERENCE TABLE

INSPECTION CHART FOR DIAGNOSIS

INSPECTION CHART FOR TROUBLE SYMPTOMS

PROBLEM SYMPTOMS TABLE (FOR YOUR INFORMATION)

INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

DATA LIST REFERENCE TABLE

ACTUATOR TEST REFERENCE TABLE

CHECK AT THE ENGINE A/T-ECU TERMINALS

ON-VEHICLE SERVICE

THROTTLE BODY (THROTTLE VALVE AREA) CLEANING

CLOSED THROTTLE POSITION SWITCH AND THROTTLE POSITION SENSOR ADJUSTMENT
<Vehicles without TCL>

THROTTLE POSITION SENSOR ADJUSTMENT
<Vehicles with TCL>

CLOSED THROTTLE POSITION SWITCH AND ACCELERATOR PEDAL POSITION SENSOR ADJUSTMENT
<Vehicles with TCL>

FIXED SAS ADJUSTMENT

BASIC IDLE SPEED ADJUSTMENT

FUEL PRESSURE TEST

FUEL PUMP CONNECTOR DISCONNECTION (HOW TO REDUCE PRESSURISED FUEL LINES)

FUEL PUMP OPERATION CHECK

INSPECTION OF MPI COMPONENTS

COMPONENT LOCATION

MPI CONTROL RELAY AND FUEL PUMP RELAY CONTINUITY CHECK

INTAKE AIR TEMPERATURE SENSOR CHECK

ENGINE COOLANT TEMPERATURE SENSOR CHECK

THROTTLE POSITION SENSOR CHECK

ACCELERATOR PEDAL POSITION SENSOR CHECK (Vehicles with TCL)

CLOSED THROTTLE POSITION SWITCH CHECK <Vehicles without TCL>

CLOSED THROTTLE POSITION SWITCH CHECK (Vehicles with TCL)

OXYGEN SENSOR CHECK

INJECTOR CHECK

IDLE SPEED CONTROL (ISC) SERVO
(STEPPER MOTOR) CHECK

PURGE CONTROL SOLENOID VALVE CHECK

EGR CONTROL SOLENOID VALVE CHECK

VENTILATION CONTROL SOLENOID VALVE
CHECK <Vehicles with TCL>

VACUUM CONTROL SOLENOID VALVE CHECK
<Vehicles with TCL>

VACUUM TANK CHECK
<Vehicles with TCL>

VACUUM ACTUATOR CHECK
<Vehicles with TCL>

THROTTLE VALVE OPERATION CHECK
<Vehicles with TCL>

NEGATIVE PRESSURE CHECK DURING
TRACTION CONTROL OPERATION
<Vehicles with TCL>

INJECTOR

REMOVAL SERVICE POINT

INSTALLATION SERVICE POINTS

THROTTLE BODY

REMOVAL AND INSTALLATION
<Vehicles without traction control, with cruise
control>

<Vehicles with traction control and cruise control>

INSTALLATION SERVICE POINT

DISASSEMBLY AND REASSEMBLY
<Vehicles without traction control, with cruise
control>

<Vehicles with traction control, and cruise
control>

CLEANING THROTTLE BODY PARTS

REASSEMBLY SERVICE POINT