

| SUBJECT   | PAGE NO. |
|---|----------|
| 4.1 Specifications                              | 4-1      |
| 4.2 Dynamic Digital Fuel Injection              | 4-3      |
| 4.3 Diagnostic Introduction                     | 4-5      |
| 4.4 Checking For Trouble Codes                  | 4-6      |
| 4.5 Check Engine Lamp Diagnostics               | 4-8      |
| 4.6 Breakout Box                                | 4-10     |
| 4.7 Wiggle Test                                 | 4-11     |
| 4.8 Initial Diagnostic Check                    | 4-12     |
| 4.9 Check Engine Lamp Not Illuminated at Key ON | 4-17     |
| 4.10 Check Engine Lamp On Continuously          | 4-20     |
| 4.11 Engine Cranks But Will Not Start           | 4-23     |
| 4.12 No ECM Power                               | 4-29     |
| 4.13 Fuel Pressure Test                         | 4-32     |
| 4.14 Idle Speed Control                         | 4-37     |
| 4.15 Misfire                                    | 4-38     |
| 4.16 Trouble Code 11                            | 4-43     |
| 4.17 Trouble Code 13                            | 4-47     |
| 4.18 Trouble Code 14                            | 4-52     |
| 4.19 Trouble Code 15                            | 4-56     |
| 4.20 Trouble Code 16                            | 4-60     |
| 4.21 Trouble Code 21                            | 4-64     |
| 4.22 Trouble Codes 23 and 32                    | 4-67     |
| 4.23 Trouble Codes 24 and 25                    | 4-71     |
| 4.24 Trouble Code 33                            | 4-74     |
| 4.25 Trouble Code 35                            | 4-77     |
| 4.26 Trouble Code 36                            | 4-80     |
| 4.27 Trouble Code 44                            | 4-84     |
| 4.28 Trouble Codes 52, 53, 54 and 55            | 4-88     |
| 4.29 Trouble Code 56                            | 4-89     |
| 4.30 Electronic Control Module                  | 4-93     |
| 4.31 Cam Position Sensor and Rotor              | 4-95     |
| 4.32 Ignition Coil                              | 4-99     |
| 4.33 Oxygen Sensor                              | 4-101    |
| 4.34 Engine Temperature Sensor                  | 4-102    |
| 4.35 Bank Angle Sensor                          | 4-103    |
| 4.36 Intake Air Temperature Sensor              | 4-104    |
| 4.37 Throttle Position Sensor                   | 4-105    |

|  |       |
|--|-------|
| 4.38 Cooling Fan .....                                     | 4-106 |
| 4.39 Fuel Pump:Early Model Year .....                      | 4-107 |
| 4.40 Fuel Pump:Late Model Year .....                       | 4-113 |
| 4.41 Fuel Tank Vent Valve .....                            | 4-121 |
| 4.42 Fuel Cap Retaining Ring .....                         | 4-122 |
| 4.43 Throttle Body and Intake Manifold .....               | 4-123 |
| 4.44 Intake Leak Test .....                                | 4-128 |
| 4.45 Airbox .....  | 4-130 |
| 4.46 Evaporative Emissions Control-California Models ..... | 4-134 |