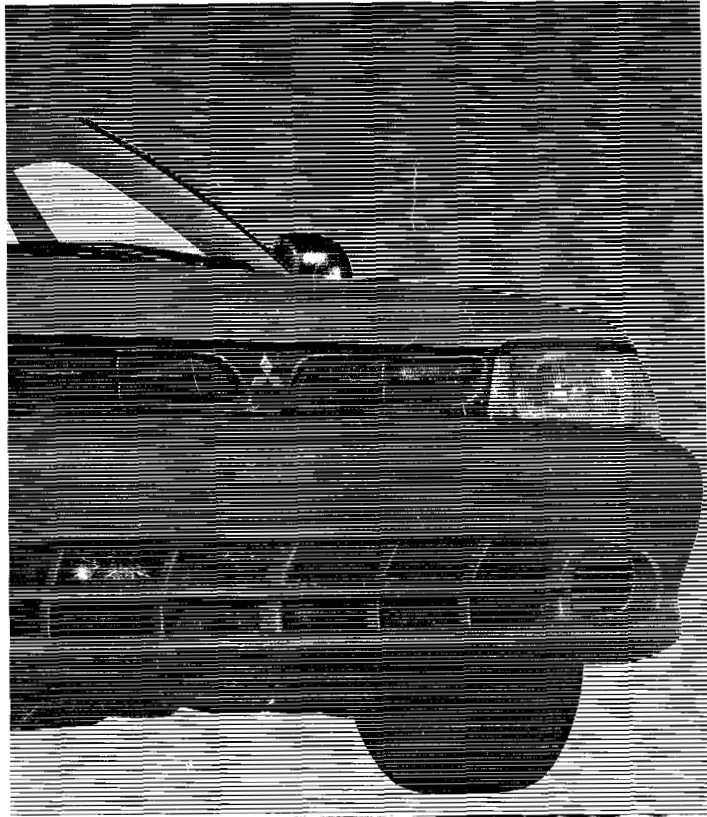




# *Service Manual*

**CHASSIS  
AND BODY**



# MIRAGE

# Service Manual

110003836

## MIRAGE

### 1993 – 1996 Volume 1 Chassis & Body

#### FOREWORD

This Service Manual has been prepared with the latest service information available at the time of publication. It is subdivided into various group categories and each section contains diagnosis, disassembly, repair, and installation procedures along with complete specifications and tightening references. Use of this manual will aid in properly performing any servicing necessary to maintain or restore the high levels of performance and reliability designed into these outstanding vehicles.



Mitsubishi Motors Corporation reserves the right to make changes in design or to make additions to or improvements in its products without imposing any obligations upon itself to install them on its products previously manufactured.

#### GROUP INDEX

|  |    |
|--|----|
| General .....  | 00 |
| Engine .....   | 11 |
| Fuel .....   | 13 |
| Cooling .....  | 14 |
| Intake and Exhaust .....                               | 15 |
| Emission Control .....                                 | 17 |
| Clutch .....   | 21 |
| Manual Transaxle .....                                 | 22 |
| Automatic Transaxle .....                              | 23 |
| Front Axle .....                                       | 26 |
| Rear Axle .....  | 27 |
| Wheel and Tire .....                                   | 31 |
| Power Plant Mount .....                                | 32 |
| Front Suspension .....                                 | 33 |
| Rear Suspension .....                                  | 34 |
| Service Brakes .....                                   | 35 |
| Parking Brakes .....                                   | 36 |
| Steering .....   | 37 |
| Body .....   | 42 |
| Exterior .....   | 51 |
| Interior and Supplemental Restraint System (SRS) ..... | 52 |
| Heater, Air Conditioning and Ventilation .....         | 55 |
| Alphabetical Index .....                               |    |

NOTE: Electrical system information is contained in Volume 2 "Electrical" of this paired Service Manual.

For overhaul procedures of engines or transmissions, refer to the separately issued Engine Service Manual or Manual/Automatic Transmission Service Manual.

# **WARNINGS REGARDING SERVICING OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS) EQUIPPED VEHICLES <From 1994 models>**

110003837

## **WARNING!**

- (1) Improper service or maintenance of any component of the SRS, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver (from rendering the SRS inoperative).**
- (2) If it is possible that the SRS components are subjected to heat over 93°C (200°F) in baking or in drying after painting, remove the SRS components (air bag module, SRS diagnosis unit, front impact sensors) beforehand.**
- (3) Service or maintenance of any SRS component or SRS-related component must be performed only at an authorized MITSUBISHI dealer.**
- (4) MITSUBISHI dealer personnel must thoroughly review this manual, and especially its GROUP 52B – Supplemental Restraint System (SRS) and GROUP 00 – Maintenance Service, before beginning any service or maintenance of any component of the SRS or any SRS-related component.**

## **NOTE**

Section titles with asterisks (\*) in the table of contents in each group indicate operations requiring warnings.

## A

|   |                      |
|---|----------------------|
| ABS, Checking Operation   | 35-51-I              |
| ACCELERATOR   |                      |
| CABLE   | 13F-8-I              |
| Inspection and Adjustment   | 13F-4-I              |
| PEDAL   | 13F-8-I              |
| AERO PARTS  | 51-12-I              |
| AIR BAG   |                      |
| MODULES   | 52B-54-I             |
| Deployed, Disposal  | 52B-73-I             |
| Disposal Procedures   | 52B-70-I             |
| Undeployed, Disposal  | 52B-70-I             |
| AIR CLEANER   |                      |
| <1.5L Engine>   | 15-3-I               |
| <1.8L Engine>   | 15-4-I               |
| ELEMENT   |                      |
| Inspection and Replacement  | 15-2-I               |
| Maintenance   | 00-43-I              |
| AIR CONDITIONING  |                      |
| COMPRESSOR CLUTCH RELAY   |                      |
| On-vehicle Inspection <1.5L Engine>                                     | 13A-97-I, 13A-155-I  |
| <1.8L Engine>   | 13A-239-I, 13A-268-I |
| COMPRESSOR DRIVE BELT, Tension, Inspection and Adjustment <1.5L Engine> | 11A-9-I              |
| REFRIGERANT MEDIUM PRESSURE SWITCH, On-vehicle Inspection <1.8L Engine> | 13A-240-I, 13A-269-I |
| SWITCH  | 17-15-I, 55-29-I     |
| On-vehicle Inspection <1.5L Engine>                                     | 13A-97-I, 13A-156-I  |
| <1.8L Engine>   | 13A-239-I, 13A-268-I |
| AIR THERMO SENSOR, Check  | 55-13-I              |
| AUTO-CRUISE CONTROL   |                      |
| CONTROL SYSTEM  | 13G-28-I             |
| CONTROL SWITCH, Inspection  | 13G-23-I             |
| MAIN SWITCH, Inspection   | 13G-22-I             |
| AUTOMATIC TRANSAXLE   |                      |
| Key Interlock Mechanism   | 23-102-I             |
| Shift Lock Mechanism  | 23-102-I             |
| Maintenance   | 00-48-I              |
| AXLE HUB  |                      |
| Front   | 26-6-I               |
| Rear  | 27-4-I               |

## B

|   |                      |
|---|----------------------|
| BALL JOINT SEALS, Maintenance                                   | 00-51-I              |
| BALL JOINT, Tie-rod End, Breakaway Torque Check                 | 37A-9-I              |
| BAROMETRIC PRESSURE SENSOR, On-vehicle Inspection <1.8L Engine> | 13A-234-I, 13A-264-I |
| BASIC IDLE SPEED  |                      |
| Adjustment <1.5L Engine>  | 13A-48-I             |
| <1.8L Engine>   | 13A-217-I            |
| BATTERY   | 54-3-II              |
| Charging  | 54-3-II              |
| Inspection  | 54-3-II              |
| Test  | 54-4-II              |
| BLOWER  | 55-32-I              |
| MOTOR   | 55-31-I              |
| MOTOR RESISTOR  | 55-31-I              |
| BOOSTER   | 35-60-I              |
| Operating Test  | 35-42-I              |
| DISC  |                      |
| Front, Run-out Check  | 35-46-I              |
| Front, Run-out Correction                                       | 35-46-I              |
| Front, Thickness Check  | 35-46-I              |
| Rear, Run-out Check <ABS>                                       | 35-49-I              |
| Rear, Run-out Correction <ABS>                                  | 35-49-I              |
| Rear, Thickness Check <ABS>                                     | 35-49-I              |
| DRUM INSIDE DIAMETER, Check                                     | 35-50-I              |

|   |          |
|---|----------|
| DRUM, Connection Check                  | 35-50-I  |
| FLUID LEVEL SENSOR, Check               | 35-43-I  |
| HOSES, Maintenance                      | 00-51-I  |
| LINING                                  |          |
| Connection Check                        | 35-50-I  |
| Thickness Check                         | 35-50-I  |
| PAD                                     |          |
| Disc, Front, Check and Replacement      | 35-44-I  |
| Disc, Rear, Check and Replacement <ABS> | 35-47-I  |
| PEDAL, Inspection and Adjustment        | 35-41-I  |
| PEDAL                                   |          |
| <A/T>                                   | 35-59-I  |
| <M/T>                                   | 35-56-I  |
| BRAKE                                   |          |
| Disc, Front                             | 35-65-I  |
| Disc, Rear <ABS>                        | 35-74-I  |
| Drum, Inside Diameter, Check            | 35-50-I  |
| Drum, Rear, Shoe                        | 35-69-I  |
| Drum, Rear, Wheel Cylinder              | 35-72-I  |
| BULB REPLACEMENT                        | 54-25-II |
| BUMPER                                  |          |
| Front                                   | 51-3-I   |
| Rear                                    | 51-4-I   |
| BUZZER                                  | 54-50-II |

## C

|  |                      |
|--|----------------------|
| CAMSHAFT   |                      |
| <1.5L Engine>  | 11A-19-I             |
| <1.8L Engine>  | 11B-18-I             |
| OIL SEAL   |                      |
| <1.5L Engine>  | 11A-19-I             |
| <1.8L Engine>  | 11B-18-I             |
| POSITION SENSOR  |                      |
| On-vehicle Inspection <1.5L Engine>                                  | 13A-79-I, 13A-145-I  |
| <1.8L Engine>  | 13A-234-I, 13A-266-I |
| CATALYTIC CONVERTER  | 15-2-I, 17-22-I      |
| CENTERMEMBER   | 32-7-I               |
| CHARGING SYSTEM  | 16-2-II              |
| Generator Output Line Voltage Drop Test                              | 16-12-II             |
| Generator Relay Continuity Check                                     | 16-18-II             |
| Output Current Test  | 16-13-II             |
| Regulated Voltage Test   | 16-15-II             |
| Wave-form Inspection Using an Analyzer                               | 16-16-II             |
| CHECK VALVE, Operation Check   | 35-42-I              |
| CIGARETTE LIGHTER  | 54-58-II             |
| CIRCUIT BREAKER (Incorporated in The Power Window Motor), Inspection | 42-5-I               |
| CLOCK SPRING   | 52B-64-I             |
| CLOCK  | 54-60-II             |
| CLOSED THROTTLE POSITION SWITCH                                      |                      |
| Adjustment <1.5L Engine>   | 13A-46-I             |
| <1.8L Engine>  | 13A-217-I            |
| On-vehicle Inspection <1.5L Engine>                                  | 13A-74-I, 13A-143-I  |
| <1.8L Engine>  | 13A-233-I, 13A-266-I |
| CLUTCH   |                      |
| CONTROL  |                      |
| <CABLE TYPE>   | 21-11-I              |
| <HYDRAULIC TYPE>   | 21-12-I              |
| MASTER CYLINDER  | 21-14-I              |
| PEDAL  |                      |
| Inspection and Adjustment  | 21-6-I               |
| <CABLE TYPE>   | 21-8-I               |
| <HYDRAULIC TYPE>   | 21-9-I               |
| COIL   |                      |
| Ignition, On-vehicle Inspection                                      |                      |
| <1.5L Engine>  | 13A-115-I, 13A-167-I |
| <1.8L Engine>  | 13A-250-I, 13A-281-I |
| COLUMN SWITCH  | 54-46-II             |

|  |                      |
|--|----------------------|
| COMBINATION LIGHT, Rear .....                  | 54-39-II             |
| COMPRESSION PRESSURE                           |                      |
| Inspection <1.5L Engine> .....                 | 11A-12-I             |
| <1.8L Engine> .....                            | 11B-13-I             |
| COMPRESSOR CLUTCH RELAY                        |                      |
| Air Conditioning, On-vehicle Inspection        |                      |
| <1.5L Engine> .....                            | 13A-97-I, 13A-155-I  |
| <1.8L Engine> .....                            | 13A-239-I, 13A-268-I |
| COMPRESSOR .....                               | 55-37-I              |
| DRIVE BELT, Adjustment .....                   | 55-13-I              |
| NOISE .....                                    | 55-23-I              |
| CONDENSER .....                                | 55-49-I              |
| FAN MOTOR .....                                | 55-49-I              |
| CONSOLE, Floor .....                           | 52A-27-I             |
| CONTROL CABLE, Inspection and Adjustment ..... | 13G-21-I             |
| CONTROL LINK .....                             | 34-6-I               |
| CRANKCASE VENTILATION SYSTEM, Inspection ..... | 17-11-I              |
| CRANKSHAFT                                     |                      |
| OIL SEAL                                       |                      |
| <1.5L Engine> .....                            | 11A-23-I             |
| <1.8L Engine> .....                            | 11B-22-I             |
| POSITION SENSOR                                |                      |
| On-vehicle Inspection <1.5L Engine> .....      | 13A-85-I, 13A-148-I  |
| <1.8L Engine> .....                            | 13A-236-I, 13A-267-I |
| PULLEY   |                      |
| <1.5L Engine> .....                            | 11A-29-I             |
| <1.8L Engine> .....                            | 11B-31-I             |
| CURB IDLE SPEED                                |                      |
| Inspection <1.5L Engine> .....                 | 11A-11-I             |
| <1.8L Engine> .....                            | 11B-11-I             |
| CYLINDER HEAD GASKET                           |                      |
| <1.5L Engine> .....                            | 11A-25-I             |
| <1.8L Engine> .....                            | 11B-26-I             |

## D

|   |          |
|---|----------|
| DEFOGGER, Rear Window .....                       | 54-88-II |
| DISC BRAKE  |          |
| Front .....                                       | 35-65-I  |
| Rear <ABS> .....                                  | 35-74-I  |
| PADS, Maintenance .....                           | 00-51-I  |
| DISTRIBUTOR .....                                 | 16-63-II |
| CAP, Maintenance .....                            | 00-45-I  |
| ROTOR, Maintenance .....                          | 00-45-I  |
| DOOR  |          |
| Fit, Adjustment .....                             | 42-5-I   |
| GLASS .....                                       | 42-29-I  |
| Adjustment .....                                  | 42-5-I   |
| HANDLE .....                                      | 42-32-I  |
| LATCH .....                                       | 42-32-I  |
| MIRROR .....                                      | 51-16-I  |
| OPENING WEATHERSTRIP .....                        | 42-37-I  |
| REGULATOR .....                                   | 42-29-I  |
| TRIM .....  | 42-27-I  |
| WATERPROOF FILM .....                             | 42-27-I  |
| DRIVE BELT  |          |
| (For Water Pump and Generator), Maintenance ..... | 00-45-I  |
| Compressor, Adjustment .....                      | 55-13-I  |
| Tension Check <Power Steering> .....              | 37A-10-I |
| DRIVE SHAFT .....                                 | 26-12-I  |
| BOOTS, Maintenance .....                          | 00-52-I  |
| DRUM BRAKE  |          |
| Inside Diameter, Check .....                      | 35-50-I  |
| Rear, Shoe .....                                  | 35-69-I  |
| Rear, Wheel Cylinder .....                        | 35-72-I  |
| DUAL PRESSURE SWITCH, Check <1.5L Engine> .....   | 55-12-I  |

## E

|   |                       |
|---|-----------------------|
| EGR   |                       |
| PORT VACUUM, Inspection .....                 | 17-21-I               |
| SOLENOID                                      |                       |
| Inspection .....                              | 17-21-I               |
| On-vehicle Inspection <1.5L Engine> .....     | 13A-121-I, 13A-171-I  |
| <1.8L Engine> .....                           | 13A-252-I, 13A-283-I  |
| SYSTEM, Inspection .....                      | 17-21-I               |
| TEMPERATURE SENSOR                            |                       |
| Inspection .....                              | 17-22-I               |
| On-vehicle Inspection <1.5L Engine> .....     | 13A-99-I              |
| <1.8L Engine> .....                           | 13A-242-I             |
| VALVE, Inspection .....                       | 17-20-I               |
| ELC-4A/T CONTROL                              |                       |
| Component Layout <F4A22> .....                | 23-75-I               |
| Component, Inspection <F4A22> .....           | 23-77-I               |
| ELECTRICAL LOAD SWITCH, On-vehicle Inspection |                       |
| <1.8L Engine> .....                           | 13A-246-I             |
| ELECTRONIC CONTROL UNIT <ABS> .....           | 35-85-I               |
| ENGINE  |                       |
| <1.5L Engine> .....                           | 11A-16-I              |
| <1.8L Engine> .....                           | 11B-14-I              |
| CONTROL MODULE POWER GROUND                   |                       |
| On-vehicle Inspection <1.5L Engine> .....     | 13A-59-I, 13A-135-I   |
| <1.8L Engine> .....                           | 13A-221-I, 13A-260-I  |
| CONTROL MODULE TERMINAL VOLTAGE               |                       |
| Check, On-vehicle Inspection                  |                       |
| <1.5L Engine> .....                           | 13A-126-I, 13A-172-I  |
| Check, On-vehicle Inspection                  |                       |
| <1.8L Engine> .....                           | 13A-263-I, 13A-2285-I |
| MOUNTING .....                                | 32-4-I                |
| OIL FILTER, Maintenance .....                 | 00-47-I               |
| OIL, Maintenance .....                        | 00-46-I               |
| ROLL STOPPER .....                            | 32-7-I                |
| ENGINE COOLANT                                |                       |
| Concentration Test .....                      | 14-5-I                |
| Leak Check .....                              | 14-5-I                |
| Maintenance .....                             | 00-49-I               |
| Replacement .....                             | 14-5-I                |
| TEMPERATURE GAUGE UNIT                        |                       |
| Inspection .....                              | 54-17-I               |
| Inspection .....                              | 54-15-II              |
| TEMPERATURE GAUGE, Simple Inspection .....    | 54-15-II              |
| TEMPERATURE SENSOR                            |                       |
| On-vehicle Inspection <1.5L Engine> .....     | 13A-68-I, 13A-141-I   |
| <1.8L Engine> .....                           | 13A-231-I, 13A-265-I  |
| TEMPERATURE SENSOR                            |                       |
| 14-17-I, 17-15-I                              |                       |
| TEMPERATURE SWITCH .....                      | 14-17-I               |
| EVAPORATIVE EMISSION                          |                       |
| CANISTER .....                                | 17-24-I               |
| CONTROL SYSTEM .....                          | 17-12-I               |
| Maintenance .....                             | 00-44-I               |
| PURGE SOLENOID                                |                       |
| Inspection .....                              | 17-15-I               |
| On-vehicle Inspection <1.5L Engine> .....     | 13A-119-I, 13A-170-I  |
| <1.8L Engine> .....                           | 13A-251-I, 13A-282-I  |
| EVAPORATOR .....                              | 55-34-I               |
| EXHAUST                                       |                       |
| GAS RECIRCULATION (EGR) SYSTEM .....          | 17-16-I               |
| MANIFOLD .....                                | 15-10-I               |
| PIPE .....                                    | 15-13-I               |
| SYSTEM, Maintenance .....                     | 00-56-I               |

## F

|   |                      |
|---|----------------------|
| FAN MOTOR, Relay, On-vehicle Inspection |                      |
| <1.8L Engine> .....                     | 13A-240-I, 13A-269-I |
| FENDER .....                            | 42-10-I              |

|   |                      |  |  |
|---|----------------------|--|--|
| FIXED SAS   |                      |  |  |
| Adjustment <1.5L Engine>                                  | 13A-48-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| FLOOR CONSOLE   | 52A-27-I             |  |  |
| FUEL  |                      |  |  |
| FILLER DOOR   | 42-11-I              |  |  |
| FILTER  | 13F-7-I              |  |  |
| GAUGE UNIT, Inspection                                    | 54-14-II             |  |  |
| GAUGE, Simple Inspection                                  | 54-13-II             |  |  |
| HOSES, Maintenance  | 00-44-I              |  |  |
| PRESSURE TEST   |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-123-I, 13A-171-I |  |  |
| <1.8L Engine>   | 13A-252-I, 13A-284-I |  |  |
| PUMP  |                      |  |  |
| Connector Disconnection (How to Reduce The Fuel Pressure) |                      |  |  |
| <1.5L Engine>   | 13A-50-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| Operation, Check <1.5L Engine>                            | 13A-51-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-60-I, 13A-136-I  |  |  |
| <1.8L Engine>   | 13A-221-I, 13A-260-I |  |  |
| SENSOR  | 54-14-II             |  |  |
| SYSTEM, Maintenance                                       | 00-44-I              |  |  |
| TANK  | 13F-5-I              |  |  |
| <b>G</b>  |                      |  |  |
| GARNISHES   | 51-6-I               |  |  |
| GASKET  |                      |  |  |
| Cylinder Head <1.5L Engine>                               | 11A-25-I             |  |  |
| <1.8L Engine>   | 11B-26-I             |  |  |
| GAUGE UNIT  |                      |  |  |
| Engine Coolant Temperature, Inspection                    | 54-15-II             |  |  |
| Engine Coolant Temperature                                | 14-17-I              |  |  |
| Fuel, Inspection  | 54-14-II             |  |  |
| GAUGES  | 54-7-II              |  |  |
| GEAR BOX  |                      |  |  |
| Manual Steering   | 37A-20-I             |  |  |
| Power Steering  | 37A-26-I             |  |  |
| GENERATOR   | 16-19-II             |  |  |
| On-vehicle inspection <1.5L Engine>                       | 13A-156-I            |  |  |
| <1.8L Engine>   | 13A-271-I            |  |  |
| RELAY CONTINUITY, Check                                   | 16-18-II             |  |  |
| GENERATOR DRIVE BELT                                      |                      |  |  |
| Tension, Inspection and Adjustment <1.5L Engine>          | 11A-8-I              |  |  |
| <1.8L Engine>   | 11B-8-I              |  |  |
| GLASS   |                      |  |  |
| Door, Adjustment  | 42-5-I               |  |  |
| Door  | 42-25-I              |  |  |
| Quarter Window  | 42-20-I              |  |  |
| Rear Window   | 42-23-I              |  |  |
| Window  | 42-12-I              |  |  |
| GRILLE, Radiator  | 51-5-I               |  |  |
| <b>H</b>  |                      |  |  |
| HANDLE, Door  | 42-32-I              |  |  |
| HAZARD LIGHT  | 54-26-II             |  |  |
| HEADLIGHT   | 54-19-II             |  |  |
| AIMING  | 54-22-II             |  |  |
| HEADLINING  | 52A-38-I             |  |  |
| HEATED OXYGEN SENSOR                                      |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-104-I, 13A-158-I |  |  |
| <1.8L Engine>   | 13A-243-I, 13A-274-I |  |  |
| HEATER  |                      |  |  |
| CONTROL   | 55-26-I              |  |  |
| CORE  | 55-30-I              |  |  |
| UNIT  | 55-30-I              |  |  |
| HIGH-MOUNTED STOP LIGHT                                   | 54-43-II             |  |  |
| HOOD  | 42-6-I               |  |  |
| HORN  | 54-52-II             |  |  |
| HYDRAULIC CIRCUIT   |                      |  |  |
| <F3A21>   | 23-61-I              |  |  |
| <F4A22>   | 23-90-I              |  |  |
| HYDRAULIC PRESSURE TEST                                   |                      |  |  |
| <F3A21>   | 23-59-I              |  |  |
| <F4A22>   | 23-82-I              |  |  |
| HYDRAULIC UNIT <ABS>                                      | 35-80-I              |  |  |
| <b>I</b>  |                      |  |  |
| IAC VALVE POSITION SENSOR                                 |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-76-I, 13A-144-I  |  |  |
| <1.8L Engine>   | 13A-233-I, 13A-266-I |  |  |
| IDLE AIR CONTROL MOTOR <DC Motor>                         |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-113-I, 13A-166-I |  |  |
| <1.8L Engine>   | 13A-249-I, 13A-280-I |  |  |
| IDLE MIXTURE  |                      |  |  |
| Inspection <1.5L Engine>                                  | 11A-11-I             |  |  |
| <1.8L Engine>   | 11B-12-I             |  |  |
| IDLE SPEED  |                      |  |  |
| Basic, Adjustment <1.5L Engine>                           | 13A-48-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| IDLE-UP OPERATION, Check                                  | 55-25-I              |  |  |
| IGNITION  |                      |  |  |
| CABLES, Maintenance                                       | 00-45-I              |  |  |
| COIL  |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-115-I, 13A-167-I |  |  |
| <1.8L Engine>   | 13A-250-I, 13A-281-I |  |  |
| POWER TRANSISTOR  |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-115-I, 13A-167-I |  |  |
| <1.8L Engine>   | 13A-250-I, 13A-281-I |  |  |
| SWITCH  | 54-5-II              |  |  |
| SWITCH-ST <A/T>   |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-87-I, 13A-148-I  |  |  |
| <1.8L Engine>   | 13A-227-I, 13A-256-I |  |  |
| SWITCH-ST <M/T>   |                      |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-90-I, 13A-151-I  |  |  |
| <1.8L Engine>   | 13A-239-I, 13A-268-I |  |  |
| SYSTEM, Wave Pattern Inspection Using an Analyzer         | 16-53-II             |  |  |
| SYSTEM  | 16-41-II             |  |  |
| TIMING  |                      |  |  |
| Inspection and Adjustment <1.5L Engine>                   | 11A-10-I             |  |  |
| <1.8L Engine>   | 11B-10-I             |  |  |
| INJECTOR  |                      |  |  |
| <1.5L Engine>   | 13A-175-I            |  |  |
| <1.8L Engine>   | 13A-289-I            |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-108-I, 13A-164-I |  |  |
| <1.8L Engine>   | 13A-248-I, 13A-278-I |  |  |
| INSTRUMENT PANEL  | 52A-20-I             |  |  |
| INTAKE AIR TEMPERATURE SENSOR                             | 17-15-I              |  |  |
| On-vehicle Inspection <1.5L Engine>                       | 13A-63-I, 13A-137-I  |  |  |
| <1.8L Engine>   | 13A-226-I, 13A-263-I |  |  |
| INTAKE MANIFOLD   |                      |  |  |
| <1.5L Engine>   | 15-5-I               |  |  |
| <1.8L Engine>   | 15-7-I               |  |  |
| Vacuum inspection   | 15-2-I               |  |  |
| <b>K</b>  |                      |  |  |
| KEY INTERLOCK MECHANISM                                   | 23-107-I             |  |  |
| KEY INTERLOCK SYSTEM                                      |                      |  |  |
| Inspection <F3A21>  | 23-71-I              |  |  |
| <F4A22>   | 23-102-I             |  |  |
| KICKDOWN SERVO, Adjustment <F4A22>                        | 23-99-I              |  |  |

## L

|                    |          |
|--------------------|----------|
| LATCH, Door        | 42-32-I  |
| LID, Trunk         | 42-7-I   |
| LIGHT              |          |
| Rear Combination   | 54-39-II |
| Stop, High-Mounted | 54-43-II |
| LINE PRESSURE      |          |
| Adjustment <F3A21> | 23-70-I  |
| <F4A22>            | 23-100-I |
| LINK               |          |
| Control            | 34-6-I   |
| Upper              | 34-6-I   |
| LOWER ARM          |          |
| Front              | 33A-11-I |
| Rear               | 34-6-I   |

## M

|   |                      |
|---|----------------------|
| MAIN MUFFLER                            | 15-13-I              |
| MANIFOLD ABSOLUTE PRESSURE SENSOR,      |                      |
| On-vehicle Inspection <1.5L Engine>     | 13A-66-I, 13A-138-I  |
| MANUAL STEERING GEAR BOX                | 37A-20-I             |
| MANUAL TRANSAXLE, Maintenance           | 00-48-I              |
| MASTER CYLINDER                         |                      |
| Brakes                                  | 35-60-I              |
| Clutch                                  | 21-14-I              |
| METERS                                  | 54-7-II              |
| MIRROR, Door                            | 51-16-I              |
| MOTOR <DC Motor>                        |                      |
| Idle Air Control, On-vehicle Inspection |                      |
| <1.5L Engine>                           | 13A-113-I, 13A-166-I |
| <1.8L Engine>                           | 13A-249-I, 13A-280-I |
| MOLDINGS                                | 51-8-I               |
| MOUNTING                                |                      |
| Engine                                  | 32-4-I               |
| Transaxle                               | 32-6-I               |
| MUFFLER, Main                           | 15-13-I              |

## N

|                   |         |
|-------------------|---------|
| NO.2 CROSSMEMBER  | 32-9-I  |
| NOISE, Compressor | 55-23-I |

## O

|  |           |
|--|-----------|
| OIL                                    |           |
| COOLER HOSES, Transaxle                | 23-109-I  |
| FILTER, Engine, Maintenance            | 00-47-I   |
| LEVEL, Transaxle, Inspection           | 22-6-I    |
| PAN                                    |           |
| <1.5L Engine>                          | 11A-21-I  |
| <1.8L Engine>                          | 11B-20-I  |
| PRESSURE SWITCH, Power Steering, Check | 37A-14-I  |
| PUMP                                   |           |
| Power Steering, Pressure Test          | 37A-13-I  |
| Power Steering                         | 37A-36-I  |
| SEAL                                   |           |
| Camshaft <1.5L Engine>                 | 11A-19-I  |
| <1.8L Engine>                          | 11B-18-I  |
| Crankshaft <1.5L Engine>               | 11A-23-I  |
| <1.8L Engine>                          | 11B-22-I  |
| OXYGEN SENSOR <Federal>                |           |
| On-vehicle Inspection <1.5L Engine>    | 13A-101-I |
| <1.8L Engine>                          | 13A-242-I |

## P

|  |                      |
|--|----------------------|
| PARK/NEUTRAL POSITION SWITCH <A/T>               |                      |
| On-vehicle Inspection <1.5L Engine>              | 13A-91-I, 13A-152-I  |
| <1.8L Engine>                                    | 13A-239-I, 13A-268-I |
| PARKING BRAKE                                    |                      |
| CABLE  | 36-7-I               |
| LEVER  | 36-6-I               |
| Stroke Inspection and Adjustment                 | 36-4-I               |
| SWITCH, Check                                    | 36-5-I               |
| PARKING LIGHT                                    | 54-28-II             |
| PERFORMANCE TEST                                 | 55-21-I              |
| POSITIVE CRANKCASE VENTILATION                   |                      |
| VALVE, Inspection                                | 17-11-I              |
| SYSTEM   | 17-10-I              |
| POWER RELAY, Check                               | 55-24-I              |
| POWER STEERING                                   |                      |
| FLUID  |                      |
| Level Check                                      | 37A-10-I             |
| Replacement                                      | 37A-11-I             |
| GEAR BOX   | 37A-26-I             |
| HOSES  | 37A-45-I             |
| OIL PRESSURE SWITCH, Check                       | 37A-14-I             |
| OIL PUMP   | 37A-36-I             |
| Pressure Test                                    | 37A-13-I             |
| OIL PUMP DRIVE BELT                              |                      |
| Tension, Inspection and Adjustment <1.5L Engine> | 11A-8-I              |
| <1.8L Engine>                                    | 11B-8-I              |
| PRESSURE SWITCH                                  |                      |
| On-vehicle Inspection <1.5L Engine>              | 13A-95-I, 13A-154-I  |
| <1.8L Engine>                                    | 13A-239-I, 13A-268-I |
| PROPORTIONING VALVE, Function Test               | 35-43-I              |
| PURGE CONTROL SYSTEM, Inspection                 | 17-13-I              |
| PURGE PORT VACUUM, Inspection                    | 17-14-I              |

## Q

|                      |         |
|----------------------|---------|
| QUARTER WINDOW GLASS | 42-20-I |
|----------------------|---------|

## R

|                                       |                      |
|---------------------------------------|----------------------|
| RADIATOR                              | 14-6-I               |
| CAP, Pressure Test                    | 14-5-I               |
| GRILLE                                | 51-5-I               |
| RADIO                                 | 54-62-II             |
| REAR COMBINATION LIGHT                | 54-39-II             |
| REAR WHEEL CYLINDERS, Maintenance     | 00-51-I              |
| REAR WINDOW DEFOGGER                  | 54-88-II             |
| REDUCING PRESSURE, Adjustment <F4A22> | 23-102-I             |
| REFRIGERANT                           |                      |
| Leak Repair Procedure                 | 55-23-I              |
| LINE                                  | 55-52-I              |
| TEMPERATURE SWITCH                    | 55-47-I              |
| REGULATOR, Door                       | 42-29-I              |
| RELAY                                 |                      |
| Air Conditioning Power, Check         | 55-24-I              |
| Fan Motor, On-vehicle Inspection      |                      |
| <1.8L Engine>                         | 13A-240-I, 13A-269-I |
| RESISTOR <1.8L Engine>                | 55-51-I              |
| RHEOSTAT                              | 54-48-II             |
| ROLL STOPPER, Engine                  | 32-7-I               |
| RUNCHANNEL, Window Glass              | 42-37-I              |

## S

|       |          |
|-------|----------|
| SEAT  |          |
| Front | 52A-39-I |
| Rear  | 52A-41-I |

|   |                      |  |  |
|---|----------------------|--|--|
| <b>SEAT BELT</b>                                      |                      |  |  |
| Front   | 52A-43-I             |  |  |
| Rear  | 52A-50-I             |  |  |
| <b>SELECTOR LEVER</b>                                 |                      |  |  |
| Operation Check <F3A21>                               | 23-71-I              |  |  |
| <F4A22>   | 23-102-I             |  |  |
| <b>SENSOR</b>   |                      |  |  |
| Air Thermo, Check                                     | 55-13-I              |  |  |
| Barometric Pressure                                   | Refer to B           |  |  |
| Brake Fluid Level, Check                              | 35-43-I              |  |  |
| Camshaft Position                                     | Refer to C           |  |  |
| Crankshaft Position                                   | Refer to C           |  |  |
| EGR Temperature                                       | Refer to E           |  |  |
| Engine Coolant Temperature                            | Refer to E           |  |  |
| Fuel  | 54-14-II             |  |  |
| Heated Oxygen   | Refer to H           |  |  |
| Intake Air Temperature                                | Refer to I           |  |  |
| Manifold Absolute Pressure                            | Refer to M           |  |  |
| Oxygen  | Refer to O           |  |  |
| Throttle Position                                     | Refer to T           |  |  |
| Vehicle Speed   | Refer to V           |  |  |
| Volume Air Flow                                       | Refer to V           |  |  |
| Wheel Speed <ABS>                                     | 35-82-I              |  |  |
| <b>SHIFT LEVER</b>                                    |                      |  |  |
| 22-10-I   |                      |  |  |
| <b>SHIFT LOCK MECHANISM</b>                           |                      |  |  |
| 23-107-I  |                      |  |  |
| <b>SHIFT-LOCK SYSTEM</b>                              |                      |  |  |
| Inspection <F3A21>                                    | 23-72-I              |  |  |
| <F4A22>   | 23-102-I             |  |  |
| <b>SIDE-MARKER LIGHT</b>                              |                      |  |  |
| 54-28-II  |                      |  |  |
| <b>SOLENOID</b>                                       |                      |  |  |
| EGR   | Refer to E           |  |  |
| Evaporative Emission Purge                            | Refer to E           |  |  |
| <b>SPARK PLUG</b>                                     |                      |  |  |
| Test  | 16-52-II             |  |  |
| Maintenance   | 00-45-I              |  |  |
| CABLE, Test   | 16-52-II             |  |  |
| <b>SPEEDOMETER</b>                                    |                      |  |  |
| Inspection  | 54-12-II             |  |  |
| <b>CABLE</b>  |                      |  |  |
| Replacement <F3A21>                                   | 23-73-I              |  |  |
| <F4A22>   | 23-102-I             |  |  |
| <M/T>   | 22-7-I               |  |  |
| <b>SRS</b>  |                      |  |  |
| Air Bag Control Unit (SRS-ECU)                        | 52B-60-I             |  |  |
| Circuit Diagram                                       | 52B-14-I             |  |  |
| Component Service                                     | 52B-60-I             |  |  |
| Component Location                                    | 52B-20-I             |  |  |
| Configuration Diagrams                                | 52B-9-I              |  |  |
| Connector Construction                                | 52B-11-I             |  |  |
| Construction Diagram                                  | 52B-3-I              |  |  |
| Introduction  | 52B-2-I              |  |  |
| Maintenance   | 00-52-I, 52B-57-I    |  |  |
| Post-collision Diagnosis                              | 52B-57-I             |  |  |
| Schematic   | 52B-7-I              |  |  |
| Service Precautions                                   | 52B-21-I             |  |  |
| Warning/Caution Labels                                | 52B-4-I              |  |  |
| <b>STABILIZER BAR</b>                                 |                      |  |  |
| 33A-14-I  |                      |  |  |
| <b>STARTER MOTOR</b>                                  |                      |  |  |
| 16-33-II  |                      |  |  |
| <b>STARTER RELAY CONTINUITY, Check</b>                |                      |  |  |
| 16-32-II  |                      |  |  |
| <b>STARTING SYSTEM</b>                                |                      |  |  |
| 16-28-II  |                      |  |  |
| <b>STATIONARY STEERING EFFORT, Check</b>              |                      |  |  |
| 37A-9-I   |                      |  |  |
| <b>STEERING</b>                                       |                      |  |  |
| Angle Check   | 37A-8-I              |  |  |
| <b>GEAR BOX</b>                                       |                      |  |  |
| Manual  | 37A-20-I             |  |  |
| Power   | 37A-26-I             |  |  |
| <b>LINKAGE SEALS, Maintenance</b>                     |                      |  |  |
| 00-51-I   |                      |  |  |
| <b>SHAFT</b>  |                      |  |  |
| 37A-15-I  |                      |  |  |
| <b>WHEEL</b>  |                      |  |  |
| Return to Center, Check                               | 37A-10-I             |  |  |
| Free Play Check                                       | 37A-8-I              |  |  |
| <b>STOP LIGHT, High-Mounted</b>                       |                      |  |  |
| 54-43-II  |                      |  |  |
| <b>STRUT</b>  |                      |  |  |
| Front   | 33A-6-I              |  |  |
| Rear  | 34-11-I              |  |  |
| <b>SWITCH</b>   |                      |  |  |
| Air Conditioning Refrigerant Medium Pressure          | Refer to A           |  |  |
| Air Conditioning                                      | Refer to A           |  |  |
| Auto-cruise Control Main, Inspection                  | 13G-22-I             |  |  |
| Auto-cruise Control, Inspection                       | 13G-23-I             |  |  |
| Closed Throttle Position                              | Refer to C           |  |  |
| Column  | 54-46-II             |  |  |
| Dual Pressure, Check <1.5L Engine>                    | 55-12-I              |  |  |
| Electrical Load                                       | Refer to E           |  |  |
| Engine Coolant Temperature                            | 14-17-I              |  |  |
| Ignition  | 54-5-II              |  |  |
| PARK/NEUTRAL Position <A/T>                           | Refer to P           |  |  |
| Parking Brake, Check                                  | 36-5-I               |  |  |
| Power Steering  | Refer to P           |  |  |
| Refrigerant Temperature                               | 55-47-I              |  |  |
| Triple Pressure, Check <1.8L Engine>                  | 55-12-I              |  |  |
| Ignition-ST   | Refer to I           |  |  |
| <b>T</b>  |                      |  |  |
| <b>TACHOMETER, Inspection</b>                         |                      |  |  |
| 54-13-II  |                      |  |  |
| <b>TANK, Fuel</b>                                     |                      |  |  |
| 13F-5-I   |                      |  |  |
| <b>TAPE PLAYER</b>                                    |                      |  |  |
| 54-62-II  |                      |  |  |
| <b>TENSION PULLEY</b>                                 |                      |  |  |
| 55-37-I   |                      |  |  |
| <b>TERMINAL VOLTAGE</b>                               |                      |  |  |
| Engine Control Module, Check, On-vehicle              |                      |  |  |
| Inspection <1.5L Engine>                              | 13A-126-I, 13A-172-I |  |  |
| <1.8L Engine>   | 13A-253-I, 13A-285-I |  |  |
| <b>THERMOSTAT</b>                                     |                      |  |  |
| 14-10-I   |                      |  |  |
| <b>THROTTLE BODY</b>                                  |                      |  |  |
| <1.5L Engine>   | 13A-177-I            |  |  |
| <1.8L Engine>   | 13A-290-I            |  |  |
| <b>THROTTLE BODY (THROTTLE VALVE AREA)</b>            |                      |  |  |
| Cleaning <1.5L Engine>                                | 13A-46-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| <b>THROTTLE POSITION SENSOR</b>                       |                      |  |  |
| Adjustment <1.5L Engine>                              | 13A-46-I             |  |  |
| <1.8L Engine>   | 13A-217-I            |  |  |
| On-vehicle Inspection <1.5L Engine>                   | 13A-71-I, 13A-142-I  |  |  |
| <1.8L Engine>   | 13A-233-I, 13A-266-I |  |  |
| <b>TIE-ROD END BALL JOINT, Breakaway Torque Check</b> |                      |  |  |
| 37A-9-I   |                      |  |  |
| <b>TIMING BELT TENSION</b>                            |                      |  |  |
| Adjustment <1.5L Engine>                              | 11A-14-I             |  |  |
| <1.8L Engine>   | 11B-13-I             |  |  |
| <b>TIMING BELT</b>                                    |                      |  |  |
| Maintenance   | 00-45-I              |  |  |
| <1.5L Engine>   | 11A-30-I             |  |  |
| <1.8L Engine>   | 11B-32-I             |  |  |
| <b>TIRE</b>   |                      |  |  |
| 31-4-I  |                      |  |  |
| <b>INFLATION PRESSURE</b>                             |                      |  |  |
| Check   | 31-4-I               |  |  |
| Wear Check  | 31-4-I               |  |  |
| <b>TORQUE CONVERTER STALL TEST</b>                    |                      |  |  |
| <F3A21>   | 23-58-I              |  |  |
| <F4A22>   | 23-81-I              |  |  |
| <b>TRAILING ARM</b>                                   |                      |  |  |
| 34-8-I  |                      |  |  |
| <b>TRANSAXLE</b>                                      |                      |  |  |
| Automatic, Maintenance                                | 00-48-I              |  |  |
| Manual, Maintenance                                   | 00-48-I              |  |  |
| <A/T>   | 23-110-I             |  |  |
| <M/T>   | 22-11-I              |  |  |

|   |                      |
|---|----------------------|
| CONTROL   |                      |
| <A/T> .....                                       | 23-103-I             |
| <M/T> .....                                       | 22-8-I               |
| MOUNTING .....                                    |                      |
| OIL COOLER HOSES .....                            | 23-109-I             |
| OIL LEVEL, Inspection .....                       | 22-6-I               |
| OIL, Replacement .....                            | 22-6-I               |
| TRANSISTOR  |                      |
| Ignition Power, On-vehicle Inspection             |                      |
| <1.5L Engine> .....                               | 13A-115-I, 13A-167-I |
| <1.8L Engine> .....                               | 13A-250-I, 13A-281-I |
| TRIMS .....                                       |                      |
| Door .....  | 42-25-I              |
| TRIPLE PRESSURE SWITCH, Check <1.8L Engine> ..... |                      |
| TRUNK LID .....                                   | 42-7-I               |

## U

|                  |        |
|------------------|--------|
| UPPER LINK ..... | 34-6-I |
|------------------|--------|

## V

|   |                      |
|---|----------------------|
| VACUUM CIRCUIT DIAGRAM .....              | 17-6-I               |
| VACUUM CONTROL VALVE .....                | 17-20-I              |
| VACUUM HOSES, Routing .....               | 17-3-I               |
| VALVE CLEARANCE, Maintenance .....        | 00-43-I              |
| VEHICLE SPEED SENSOR                      |                      |
| On-vehicle Inspection <1.5L Engine> ..... | 13A-93-I, 13A-153-I  |
| <1.8L Engine> .....                       | 13A-239-I, 13A-268-I |
| VENTILATION SYSTEM                        |                      |
| Crankcase, Inspection .....               | 17-11-I              |
| Positive Crankcase .....                  | 17-10-I              |
| VENTILATORS                               |                      |
| (AIR INLET AND AIR OUTLET) .....          | 55-55-I              |
| (INSTRUMENT PANEL AND FLOOR) .....        | 55-54-I              |
| VOLUME AIR FLOW SENSOR .....              |                      |
| On-vehicle Inspection <1.8L Engine> ..... | 13A-222-I, 13A-268-I |

## W

|  |          |
|--|----------|
| WASHER, Windshield .....               | 51-13-I  |
| WATER HOSE .....                       | 14-15-I  |
| WATER PIPE .....                       | 14-15-I  |
| WATER PUMP                             |          |
| <1.5L Engine> .....                    | 14-12-I  |
| <1.8L Engine> .....                    | 14-14-I  |
| WATERPROOF FILM, Door .....            | 42-27-I  |
| WEATHERSTRIP, Door Opening .....       | 42-37-I  |
| WHEEL .....                            |          |
| Run-out Check .....                    | 31-4-I   |
| Steering .....                         | 37A-15-I |
| ALIGNMENT                              |          |
| Front, Inspection and Adjustment ..... | 33A-5-I  |
| Rear, Inspection and Adjustment .....  | 34-5-I   |
| BEARING, End Play Check .....          | 27-3-I   |
| SPEED SENSOR <ABS> .....               | 35-82-I  |
| WINDOW GLASS .....                     |          |
| Quarter .....                          | 42-20-I  |
| Rear .....                             | 42-23-I  |
| RUNCHANNEL .....                       |          |
| WINDSHIELD .....                       | 42-15-I  |
| WASHER .....                           | 51-13-I  |
| WIPER .....                            | 51-13-I  |