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Manufacturer: SUZUKI, Model Year: 2003, Model line: GRAND VITARA, Model: SUZUKI GRAND VITARA 2003 2.G Pages: 801, PDF Size: 12.15 MB SUZUKI GRAND VITARA 2003 2.G Service Workshop Manual GRAND VITARA 2003 2.G SUZUKI SUZUKI SUZUKI GRAND VITARA 2003 2.G Service Workshop Manual SUZUKI — SQ 416-420-625 — M.Y 1909 - 2005 SERVICE MANUAL VOLUME 1 - CHASSIS SECTIONS - ELECTRICAL - BODY SECTIONS Page 2 of 801YH4 GRAND vol.1 RELATED MANUAL MANUAL NAMEMANUAL.NO.APPLICABILITY SQ416 / SQ420 / SQ625 Unit Repair Manual99501-65D01-xxxTransmission, Transfer and Differentials (Front and Rear) of SQ series. SQ416 / SQ420 / SQ625 Wiring Diagram Manual99512-65D10-015Applicable model mentioned in FOREWORD of this manual. SQ416 / SQ420 / SQ625 Service Manual99500-65D00-xxxVehicles before the vehicle identification number mentioned in FOREWORD of this manual. SQ416 / SQ420 / SQ625 Wiring Diagram Manual99512-65D01-015 Page 3 of 801YH4 GRAND vol.1 0A 0B 1A 1B 3 3A 3B1 3C 3C1 3D 3E 3F 4A2 4B 5 6 7A5A 5B 5C 5E1 6A1 6A2 6A4 6B 6C 6E1 6E2 6F1 6F2 6G 6G1 6H 6K 7A1 7B1 7C1 7D 7E 7F 8 8B 8C 8D 8G 9 10 10A 8A 10B 6-1ENGINE General Information and Diagnosis (G16 / J20) General Information and Diagnosis (H25) Engine Mechanical (G16) Engine Mechanical (H25) Engine Mechanical (J20) Engine Cooling Engine Fuel Engine and Emission Control System (SFI for G16 /J20) Engine and Emission Control System (SFI for H25) Ignition System (G16) Ignition System (J20 / H25) Cranking System (Reduction Type) Cranking System (No-Reduction Type) Charging System Exhaust System TRANSMISSION, CLUTCH AND DIFFERENTIAL Manual Transmission (Type 1) Manual Transmission (Type 2) Automatic Transmission Clutch (Hydraulic Type) Transfer Differential (Front) Differential (Rear) BODY ELECTRICAL SYSTEM Wiring Diagram Lighting System Instrumentation / Driver Information Windows, Mirrors, Security and Lock Immobilizer Control System BODY SERVICE RESTRAINT SYSTEM Seat Belt Air Bag System GENERAL INFORMATION General Information Maintenance and Lubrication TABLE OF CONTENTS TABLE OF CONTENTS SECTIONSECTION 0B HEATING AND AIR CONDITIONING Heater and Ventilation Air Conditioning STEERING, SUSPENSION, WHEELS AND TIRES Front End Alignment Power Steering (P / S) System Steering Wheel and Column (Not Equipped with Air Bag) Air Bag Steering Wheel and Column Front Suspension Rear Suspension Wheel and Tires 1A 3A 0A 1B 3B1 3C 3C1 3D 3E 3F36A16 6A2 6A4 6B 6C 6E1 6E2 6F1 DRIVE SHAFT / PROP. SHAFT Front Drive Shaft / Shaft Bearing, Oil Seal Propeller Shaft BRAKES Brake Pipe / Hose / Master Cylinder Front Brakes Parking and Rear Brakes Antilock Brake System 4A2 4B 5 5A 5B 5C 5E1 6F2 6G 6G1 6H 6K 7A 7A1 7B1 7C1 7D 7E 7F 8 8A 8B 8C 8D 8G 9 10 10A 10B 6-1 NOTE: The screen toned Sections 6 ± 6K are included in Volume 2 and Section 8A is in Wiring Diagram Manual. Page 4 of 801YH4 GRAND VITARA 0A GENERAL INFORMATION 0A-1 SECTION 0A GENERAL INFORMATION CONTENTS HOW TO USE THIS MANUAL0A- 2 PRECAUTIONS0A- 3 Servicing and Handling0A- 4 Precautions for Catalytic Converter 0A- 9 Precautions for Electrical Circuit Service 0A-10. Electrical Circuit Inspection Procedure 0A-12. Intermittent and Poor Connection 0A-15. Precaution for Installing Mobile Communication Equipment 0A-16. IDENTIFICATION INFORMATION0A-17 Body Number0A-17 Vehicle Identification Number0A-17 Transmission IDENTIFICATION NUMBER 0A-17. WARNING, CAUTION AND INFORMATION LABELS0A-18 VEHICLE LIFTING POINTS0A-19 FASTENERS 0A-20 METRIC INFORMATION0A-21 METRIC INFORMATION0A-23 METRIC FASTENERS0A-23 Fasteners Strength Identification 0A-23. Standard Tightening Torque0A-24. Page 5 of 801YH4 GRAND VITARA 6) Install oil pump. Refer to *Oil pump*. 7) Install flywheel (for M/T vehicle) or drive plate (for A/T vehicle). Using special tool, lock flywheel or drive plate, and tighten flywheel or drive plate bolts to specified torque. Special Tool (A): 09924-17810 Tightening Torque (c): 78 N·m (7.8 kg-m, 56.0 lb-ft)1. Flywheel bolts or drive plate bolts for A/T vehicle1, (c) 0A-2 GENERAL INFORMATION HOW TO USE THIS MANUAL 1) There is a TABLE OF CONTENTS FOR THE WHOLE MANUAL on the third page of this manual, whereby you can easily find the section that offers the information you need. Also, there is a CONTENTS on the first page of EACH SECTION, where the main items in that section are listed. 2) Each section of this manual has its own pagination. It is indicated at the top of each page along with the Section name. 3) The SPECIAL TOOL usage and TORQUE SPECIFICATION are given as shown in figure below. 4) A number of abbreviations are used in the text. For their full explanations, refer to *ABBREVIATIONS MAY BE USED IN THIS MANUAL* of this section. 5) The SI, metric and foot-pound systems are used as units in this manual. 6) DIAGNOSIS are included in each section as necessary. 7) At the end of each section, there are descriptions of SPECIAL TOOLS, REQUIRED SERVICE MATERIALS and TIGHTENING TORQUE SPECIFICATIONS that should be used for the servicing work described in that section. Page 6 of 801YH4 GRAND VITARA 1. Air bag wire harness 2. Passenger air bag (inflator) module 3. SDM 4. DLC5, Contact coil 6. Driver air bag (inflator) module 7. Seat belt pretensioner (if equipped) GENERAL INFORMATION 0A-3 PRECAUTIONS PRECAUTION FOR VEHICLES EQUIPPED WITH A SUPPLEMENTAL RESTRAINT (AIR BAG) SYSTEM WARNING: The configuration of air bag system parts are as shown in the figure. When it is necessary to service (remove, re-install and inspect) these parts, be sure to follow procedures described in SECTION 10B. Failure to follow proper procedures could result in possible air bag system activation, personal injury, damage to parts or air bag system being unable to activate when necessary. If the air bag system and another vehicle system both need repair, SUZUKI recommends that the air bag system be repaired first, to help avoid unintended air bag system activation. Do not modify the steering wheel, dashboard, or any other air bag system components. Modifications can adversely affect air bag system performance and lead to injury. If the vehicle will be exposed to temperatures over 93C (200F) (for example, during a paint baking process), re-move the air bag system components beforehand to avoid component damage or unintended air bag system activation. DIAGNOSIS When troubleshooting air bag system, be sure to follow *DIAGNOSIS* in SECTION 10B. Bypassing these procedures may result in extended diagnostic time, incorrect diagnosis, and incorrect parts replacement. Never use electrical test equipment other than that specified in this manual. WARNING: Never attempt to measure the resistance of the air bag (inflator) modules (driver and passenger) and seat belt pretensioners (driver and passenger). It is very dangerous as the electric current from the tester may deploy the air bag or activate the pretensioner. Page 7 of 801YH4 GRAND VITARA ALWAYS CARRY AIR BAG (INFLATOR) MODULE WITH TRIM COVER (AIR BAG OPENING) AWAY FROM BODY. ALWAYS PLACE AIR BAG (INFLATOR) MODULE ON WORKBENCH WITH TRIM COVER (AIR BAG OPENING) UP, AWAY FROM LOOSE OBJECTS. 1. Slit on workbench 2. Workbench vise 3. Lower mounting bracket 0A-4 GENERAL INFORMATION SERVICING AND HANDLING WARNING: Many of service procedures require disconnection of *AIR BAG* fuse and all air bag (inflator) module(s) from initiator circuit to avoid an accidental deployment. Driver and Passenger Air Bag (Inflator) Modules For handling and storage of a live air bag (inflator) module, select a place where the ambient temperature below 65C (150F), without high humidity and away from electric noise. When carrying a live air bag (inflator) module, make sure the bag opening is pointed away from you. In case of an accidental deployment, the bag will then deploy with minimal chance of injury. Never carry the air bag (inflator) module by the wires or connector on the underside of the module. When placing a live air bag (inflator) module on a bench or other surface, always face the bag up, away from the surface. As the live passenger air bag (inflator) module must be placed with its bag (trim cover) facing up, place it on the workbench with a slit or use the workbench vise to hold it securely at its lower mounting bracket. This is necessary so that a free space is provided to allow the air bag to expand in the unlikely event of accidental deployment. Otherwise, personal injury may result. Never dispose of live (undeployed) air bag (inflator) modules (driver and passenger). If disposal is necessary, be sure to deploy them according to deployment procedures described in SECTION 10B before disposal. The air bag (inflator) module immediately after deployment is very hot. Wait for at least half an hour to cool it off before proceeding the work. After an air bag (inflator) module has been deployed, the surface of the air bag may contain a powdery residue. This powder consists primarily of cornstarch (used to lubricate the bag as it inflates) and by-products of the chemical reaction. As with many service procedures, gloves and safety glasses should be worn. Page 8 of 801YH4 GRAND VITARA 1. Exhaust hole 1 1 NG GENERAL INFORMATION 0A-5 WARNING: SDM During service procedures, be very careful when handling a Sensing and Diagnostic Module (SDM). Never strike or jar the SDM. Never power up the air bag system when the SDM is not rigidly attached to the vehicle. All SDM and mounting bracket fasteners must be carefully torqued and the arrow must be pointing toward the front of the vehicle to ensure proper operation of the air bag system. The SDM could be activated when powered while not rigidly attached to the vehicle which could cause deployment and result in personal injury. WARNING: Driver and Passenger Seat Belt Pretensioners For handling and storage of a live seat belt pretensioner, select a place where the ambient temperature below 65C (150F), without high humidity and away from electric noise. Never carry seat belt pretensioner by wire or connector of pretensioner. When placing a live seat belt pretensioner on the workbench or some place like that, be sure not to lay it with its exhaust hole provided side facing down. It is also prohibited to put something on its face with an exhaust hole or to put a seat belt pretensioner on top of another. Otherwise, personal injury may result. Never dispose of live (inactivated) seat belt pretensioners (driver and passenger). If disposal is necessary, be sure to activate them according to activation procedures described in SECTION 10B before disposal. The seat belt pretensioner immediately after activation is very hot. Wait for at least half an hour to cool it off before proceeding the work. With many service procedures, gloves and safety glasses should be worn to prevent any possible irritation of the skin or eyes. Page 9 of 801YH4 GRAND VITARA 0A-6 GENERAL INFORMATION CAUTION: Even when the accident was light enough not to cause air bags to activate, be sure to inspect system and other related parts according to instructions under *Repair and Inspection Required after an Accident* in SECTION 10B. When servicing parts other than air bag system, if shocks may be applied to air bag system component parts, re-move those parts beforehand. When handling the air bag (inflator) modules (driver and passenger), seat belt pretensioners (driver and passenger) or SDM, be careful not to drop it or apply an impact to it. If an excessive impact was applied (e.g., dropped from a height of 91.4 cm (3 feet) or more), never attempt disassembly or repair but replace it with a new one. When grease, cleaning agent, oil, water, etc. has got onto air bag (inflator) modules (driver and passenger) or seat belt pretensioners (driver and passenger), wipe off immediately with a dry cloth. Air bag wire harness can be identified easily as it is covered with a yellow protection tube. Be very careful when handling it. When an open in air bag wire harness, damaged wire harness, connector or terminal is found, replace wire harness, connectors and terminals as an assembly. Do not apply power to the air bag system unless all components are connected to a diagnostic chart requests it, as this will set a diagnostic trouble code. Never use air bag system component parts from another vehicle. When using electric welding, be sure to temporarily disable air bag system referring to *Disabling Air Bag System* described in *Service Precautions* under *On-Vehicle Service* in SECTION 10B. Never expose air bag system component parts directly to hot air (drying or baking the vehicle after painting) or flames. WARNING / CAUTION labels are attached on each part of air bag system components. Be sure to follow the instructions. After vehicle is completely repaired, perform *Air Bag Diagnostic System Check* described in *Diagnosis* in SECTION 10B. Page 10 of 801YH4 GRAND VITARA GENERAL INFORMATION 0A-7 GENERAL PRECAUTIONS THE WARNING AND CAUTION below describe some general precautions that you should observe when servicing a vehicle. These general precautions apply to many of the service procedures described in this manual, and they will not necessarily be repeated with each procedure to which they apply. WARNING: Whenever raising a vehicle for service, be sure to follow the instructions under *VEHICLE LIFTING POINTS* on SECTION 0A. When it is necessary to do service work with the engine running, make sure that the parking brake is set fully and the transmission is in Neutral (for manual transmission vehicles) or Park (for automatic transmission vehicles). Keep hands, hair, clothing, tools, etc. away from the fan and belts when the engine is running. When it is necessary to run the engine indoors, make sure that the exhaust gas is forced outdoors. Do not perform service work in areas where combustible materials can come in contact with a hot exhaust system. When working with toxic or flammable materials (such as gasoline and refrigerant), make sure that the area you work in is well-ventilated. To avoid getting burned, keep away from hot metal parts such as the radiator, exhaust manifold, tail pipe, muffler, etc. New and used engine oil can be hazardous. Children and pets may be harmed by swallowing new or used oil. Keep new and used oil and used engine oil filters away from children and pets. Continuous contact with used engine oil has been found to cause [skin] cancer in laboratory animals. Brief contact with used oil may irritate skin. To minimize your exposure to used engine oil, wear a long-sleeve shirt and moisture-proof gloves (such as dishwashing gloves) when changing engine oil. If engine oil contacts your skin, wash thoroughly with soap and water. Launder any clothing or rags if wet with oil, recycle or properly dispose of used oil and filters. Make sure the bonnet is fully closed and latched before driving. If it is not, it can fly up unexpectedly during driving, obstructing your view and resulting in an accident. CAUTION: Before starting any service work, cover fenders, seats and any other parts that are likely to get scratched or stained during servicing. Also, be aware that what you wear (e.g. buttons) may cause damage to the vehicle's finish. When performing service to electrical parts that does not require use of battery power, disconnect the negative cable of the battery.

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