CONTENTS

GENERAL INFORMATION	
GENERAL GUIDELINES AND PRECAUTIONS	
SRS AIRBAG	7
ELECTRONIC PARTS	
CORROSION PROTECTION AND SEALING	
SIDE BODY PANELS	
WELDING	9
BODY CONSTRUCTION	
BODY COMPONENTS	
ZINC-GALVANIZED STEEL PANELS	
HIGH-STRENGTH STEEL PANELS	
FRONT BODY	
SIDE BODY	
UNDER BODY	
REAR BODY	
FENDER & HOOD	
ROOF	
DOOR	45
REPLACEMENT PARTS	40
FRONT BODY	
SIDE BODY	
REAR BODY	
DOOR BODY DIMENSIONS	51
GENERAL	· F.O
UPPER BODY	
SIDE BODY	
INTERIOR	
UNDER BODY	
ENGINE COMPARTMENT	
LUGGAGE COMPARTMENT	
BODY PANEL REPAIR PROCEDURE	
RADIATOR SUPPORT PANEL	72
FENDER APRON AND FRONT SIDEMEMBER (ASSEMBLY)	73
FRONT SIDEMEMBER (PARTIAL)	
FRONT PILLAR	
SIDE SILL (ASSEMBLY)	90
SIDE SILL (PARTIAL)	
QUARTER PANEL	97
REAR FLOOR	100
REAR SIDEMEMBER (ASSEMBLY)	101
REAR SIDEMEMBER (PARTIAL)	106
DOOR	109
BODY SEALING LOCATIONS	
FLOOR	
UPPER & SIDE BODY	118
CORROSION PROTECTION	
ZINC-GALVANIZED STEEL PANELS	
ZINC-PHOSPHATE COAT & CATIONIC ELECTODEPOSITION PRIMER	124
ANTI-CORROSION PRIMER	
ANTIVIBRATION PADS-LOCATION & SECTION	
ATTACHMENT OF ANTIVIBRATION PADS	
UNDER BODY COAT	
SIDE BODY	
CAVITY WAX INJECTION	
UNDER BODY ANTI-CORROSION AGENT	134

This is the cut pages sample. Download all 131 page(s) at: ManualPlace.com

G

GENERAL INFORMATION

GENERAL GUIDE LINES AND PRECAUTIONS

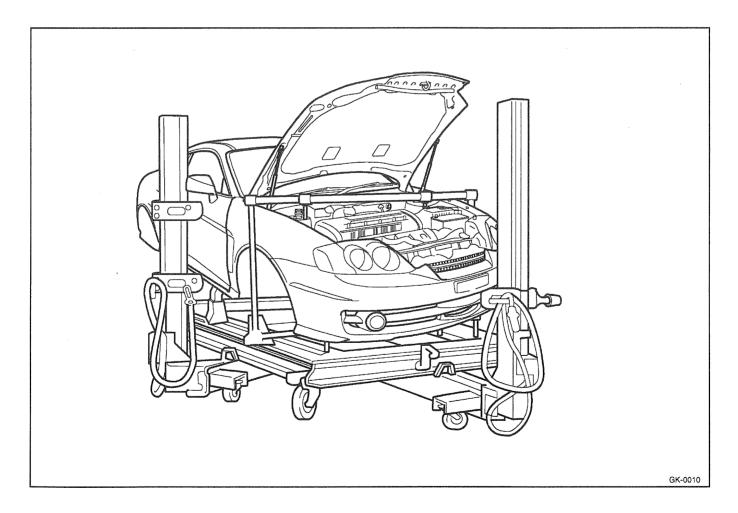
The Hyundai TIBURON/COUPE is a completely new vehicle design. During its development, close attention has been given to safety, stability, weight and corrosion protection. Typical of unit body design, the Hyundai TIBURON/COUPE is designed so that the front and rear compartments will absorb much of the collision energy so that the passengers are better protected. During collisions, these front and rear energy absorbing systems may be severely damaged. During repair, these damaged areas must be returned to their original strength and geometry. If this is not properly done, the vehicle will not provide the intended level of protection to its occupants in the event of another collision.

The repairs described in this manual were performed on TIBURON/COUPE body shells. In some instances special fixtures were welded in place to support the structure. During the repair of an actual vehicle, the interior would be fully disassembled and standard jack screws or portable braces may be used for temporary support.

During the repair of an accident involved vehicle, the vehicle must first be returned to pre-impact dimensions prior to beginning the sectioning repair procedures. The extent of damage that must be repaired should then be evaluated to determine the appropriate repair procedures. This manual provides locations and procedures where structural sectioning may be employed. It is the responsibility of the repair technician, based upon the extent of damage, to determine which location and procedure is suitable for the particular damaged vehicle.

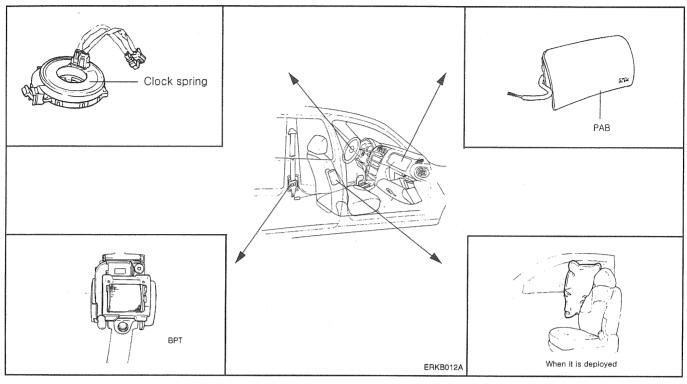
During the repair of a collision damaged automobile, it is impossible to fully duplicate the methods used in the factory during the vehicle manufacture. Therefore, auto body repair techniques have been developed to provide a repair that has strength properties equivalent to those of the original design and manufacture.

Certain guidelines and precaution are noted as follows.



SRS AIRBAG

SYSTEM COMPONENT



The Hyundai TIBURON/COUPE is equipped with a Supplemental Restraint System (AIRBAG) to provide the vehicle's driver and/or the front passenger with additional protection than that offered by the seat-belt system alone, in case of a frontal or lateral impact of sufficient severity.

When handling airbag components (removal, installation or inspection, etc.), always follow the directions given in the repair manual for the relevant model to prevent the occurrence of accidents and airbag malfunction.

Also take the following precautions when repairing the body:

- 1. Work must be started after approximately 30 seconds or longer from the time the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery. (The airbag system is equipped with a back-up power source so that if work is started within 30 seconds of disconnecting the negative (-) terminal cable of the battery, the airbag may be deployed.)

 When the negative(-) terminal cable is disconnected from the battery, memory of the clock and audio systems will be cancelled. So before starting work, make a record of the contents memorized by the audio memory system. Then when work is finished, reset the audio system as before and adjust the clock.
- 2. When using electric welding, first disconnect the SRSCM connectors under the lower crash pad center.
- 3. Store the airbag module where the ambient temperature remains below 80°C (176°F), without high humidity and away from electrical noise.
- 4. WARNING/CAUTION labels are attached to the periphery of the airbag components. Refer to the TIBURON/COUPE SHOP MANUAL.

ELECTRONIC PARTS

Vehicles today include a great many electronic parts and components, and these are in general very susceptible to adverse effects caused by over current, reverse current, electromagnetic waves, high temperature, high humidity impacts, etc..

In particular such electronic components can be damaged if there is a large current flow during welding from the body side.

Therefore, take the following precautions during body repair to prevent damage to the CONTROL MODULES (ECM, TCM, ABS CM, SRS CM, etc.)

- 1. Before removing and inspecting the electrical parts or before starting electric welding operations, disconnect the negative (-) terminal cable from the battery.
- 2. Do not expose the CONTROL MODULES to ambient temperatures above 80°C (176°F).

NOTE

If it is possible the ambient temperatures may reach 80°C (176°F) or more, remove the CONTROL MODULES from the vehicle before starting work.

3. Be careful not to drop the CONTROL MODULES and not to apply physical shocks to them.

CORROSION PROTECTION AND SEALING

Proper corrosion protection and sealing is an important part of any repair. When reviewing these repair procedures, it is important to recognize the need for corrosion restoration to provide for long term strength of the repaired member.

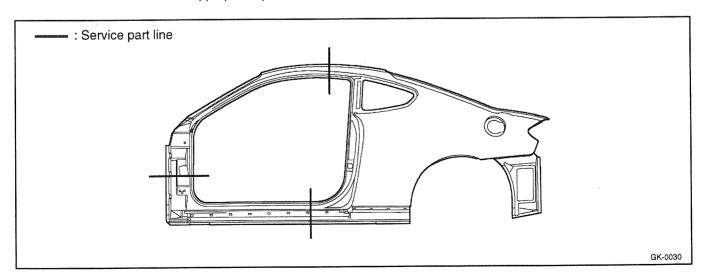
A two part epoxy primer was applied to the metal surfaces during the latter part of the repair. For closed sections, such as front and rear rails, rocker panels and pillars, the primer is applied without applying the metal conditioner and the conversion coating. These steps are omitted to insure that no rinse water is trapped in the closed sections. The primer application is followed by an application of an oil or wax based on rust proofing material.

After the corrosion restoration process for the closed sections are completed, then the process can be applied to all exterior sections. For exterior surfaces, both metal conditioner and conversion coating treatments are applied to the exterior surface prior to application of the epoxy primer. The procedure in applying the corrosion restoration process is important in order to insure that moisture, due to the water rinsing of the metal conditioner and conversion coating is not inadvertently trapped inside any closed section before the epoxy primer and rust proofing materials have been applied.

Appropriate seam sealers are then applied to all joints. Follow manufacturer's recommendations for the appropriate type of seam sealer to be used at each seam or joint.

SIDE BODY PANELS

The side body panel for TIBURON/COUPE is designed and stamped as single piece of sheet metal in factory as shown in the figure. While the entire side panel is available for service, the partial panels sectioned by several damaged areas are also available. Therefore when repairing side body, refer to "Replacement parts section" of this manual to select and use the appropriate part.



WELDING

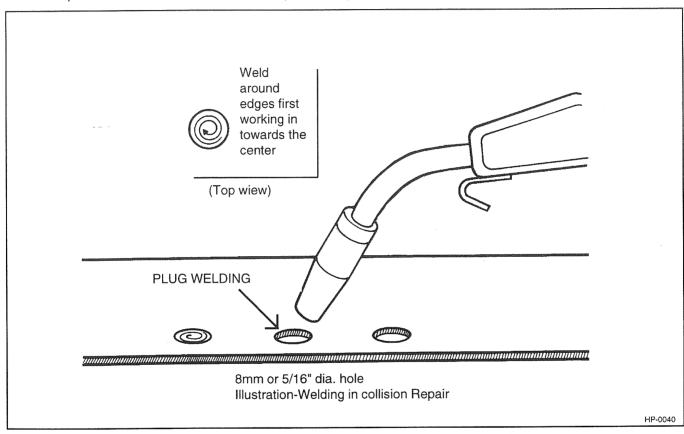
All repairs in this manual require the use of a Metal-Inert Gas (MIG) welder, Gas (oxyacetylene) welding must not be used.

Both high strength steel and mild steel can be welded using the MIG welder. The I-CAR recommendations for welding should be followed. The shielding gas should be 75% Argon and 25% CO₂.

The recommended welding wire size is 0.23" and the wire should satisfy the American Welding Society Standard code AWSER70S-6.

During the repair process, plug welds are used to duplicate original factory spot welds. All plug welds should be done with the MIG welder. An 8 mm (5/16") hole is placed in the top (welding side) sheet metal.

You then begin welding along the edges and the spiral towards the center (see illustration). This is important so that weld penetration between the two metal pieces may take place along the circumference of the circle.



SAFETY FACTORS

Disconnect the negative(-) battery cable before performing any work on the vehicle.

Protect yourself by wearing goggles, earplugs, respirators, gloves, safety shoes, caps, etc. when working on a vehicle.

Safely support the vehicle before any work is done. Block the front or rear wheels if the vehicle is not lifted off of the ground.

Cap or remove the fuel tank when working on the rear section of the car.

Insure proper ventilation of your working area. Some paint and sealant can generate toxic gases when heated. Use an air chisel or saw to remove damaged panels instead of a gas torch.

Observe all local and national safety regulations when performing any work.

Cover interior with heat-resistant cover to insure safety when welding.

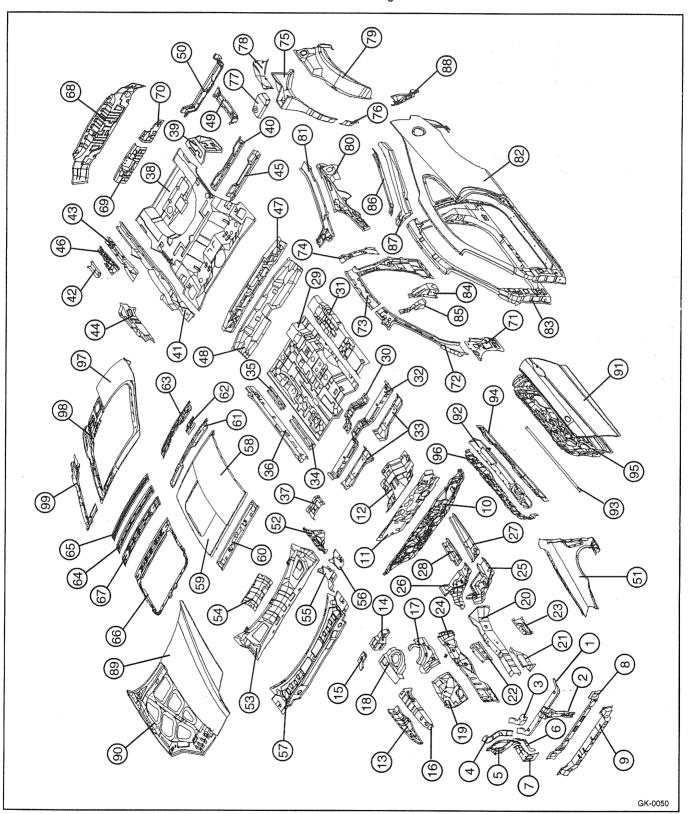
Take care when using gas or cutting torches so as not to burn body sealer or interior. Extinguish immediately if they should catch fire.

BODY CONSTRUCTION



BODY COMPONENTS

Body construction will sometimes differ depending on specifications and country of destination. Therefore, please keep in mind that the information contained herein is based on vehicles for general destination.



BODY CONSTRUCTION - Body components

- 1. Radiator support upper center member
- 2. Radiator support center member
- 3. Radiator upper mounting bracket
- 4. Radiator support upper side member
- 5. Head lamp support panel
- 6. Head lamp support gusset
- 7. Front shipping hook bracket
- 8. Radiator support lower inner member
- 9. Radiator support lower outer member
- 10. Dash panel
- 11. Dash panel reinforcement
- 12. Dash lower member
- 13. Fender apron upper outer panel
- 14. Fender apron inner rear upper extension
- 15. Fender apron inner rear lower extension
- 16. Fender apron upper inner panel
- 17. Front shock absorber housing panel
- 18. Front shock absorber housing upper panel
- 19. Fender apron inner front panel
- 20. Front side inner member
- 21. Front side member inner gusset
- 22. Engine mounting reinforcement
- 23. Transmission mounting reinforcement
- 24. Front side outer member
- 25. Front side rear lower member
- 26. Front side rear upper member
- 27. Front side member rear lower extension
- 28. Front side member lower reinforcement
- 29. Center floor panel
- 30. Muffler hanger mounting bracket
- 31. Center floor reinforcement
- 32. Front seat cross member
- 33. Front seat cross No.2 member
- 34. Center floor side member
- 35. Center floor side member reinforcement
- 36. Side sill inner panel
- 37. Parking brake lever rear mounting reinforcement
- 38. Rear floor panel

Full download: http://manualplace.com/download/hyundai-coupe-body-repair-manual/

Hyundai Coupe Body Repair Manual

- 39. Rear floor side panel
- 40. Rear floor center cross upper
- 41. Rear floor side member
- 42. Rear bumper mounting reinforcement
- 43. Rear floor side member center reinforcement
- 44. Side sill inner rear panel
- 45. Rear floor center cross member
- 46. Rear floor side member front reinforcement
- 47. Rear floor front extension
- 48. Rear floor front cross member
- 49. Jack up cross center member
- 50. Jack up cross rear member

- 51. Fender panel
- 52. Cowl side upper panel
- 53. Cowl inner lower panel
- 54. Cowl inner lower reinforcement
- 55. Cowl side upper inner panel
- 56. Hood hinge mounting reinforcement
- 57. Cowl top outer panel
- 58. Roof panel
- 59. Roof panel(sun roof)
- 60. Roof front lower
- 61. Roof rear upper rail
- 62. Tail gate hinge mounting reinforcement
- 63. Roof rear lower rail
- 64. Roof center rail
- 65. Roof center rail No.2
- 66. Sun roof ring reinforcement
- 67. Sun roof rear lower reinforcement
- 68. Back panel
- 69. Rear transverse member
- 70. Rear transverse side extension
- 71. Front inner lower pillar
- 72. Front inner upper pillar
- 73. Center pillar inner panel
- 74. Front seat belt upper mounting bracket
- 75. Wheel housing inner panel
- 76. Wheel housing inner front extension
- 77. Rear spring housing cover
- 78. Wheel housing inner rear cover
- 79. Quarter inner panel
- 80. Quarter inner reinforcement
- 81. Quarter inner upper panel
- 82. Side outer panel
- 83. Side outer reinforcement
- 84. Front door striker reinforcement
- 85. Front door striker upper reinforcement
- 86. Side outer rear upper extension
- 87. Quarter outer upper reinforcement
- 88. Rear combination lamp housing panel
- 89. Hood outer panel
- 90. Hood inner rail
- 91. Door outer panel
- 92. Door belt outer rail
- 93. Door reinforcement beam
- 94. Door upper member
- 95. Door inner panel
- 96. Door belt inner rail
- 97. Tail gate outer panel
- 98. Tail gate inner panel
- 99. Tail gate side reinforcement