

Module 1

Kia Body Repair Manuals

All Kia "Body Repair Manuals" (BRM) include a good overview of the vehicle body structure along with generic general information and cautions for repairing Kia vehicles. Much of the same information is included in all manuals and applies to all current models in the Kia fleet.

Modules 1 of this manual will cover the Kia generic body repair information covering all models included in those course. Module 2 will look at model specific information for each of the following vehicles:-

- Picanto (TA)
- Rio (UB)
- Soul I (PS) 2015
- Cerato (YD) 2,4 & 5 door 2014
- Pro-Ceed (JD) 2013
- Optima (TF) 2014
- Carens (RP) 2014
- Sportage (SL)
- Sorento (UM12)
- Carnival (YD)
- Light truck K2900 (PU)

General Information

General Guide Lines and Precautions

This vehicle is a completely new design. During its development, close attention has been given to safety, stability, weight and corrosion protection. Typical of unibody design, the vehicle 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 the vehicle's 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.

Safety Factors

When repairing Kia vehicles it is important to follow the following recommendations.

1. Disconnect the negative (-) battery cable before performing any work on the vehicle.
2. Protect yourself by wearing goggles, earplugs, respirators, gloves, safety shoes, caps, etc. when working on a vehicle.
3. Safety support the vehicle before any work is done. Block the front or rear wheels if the vehicle is not lifted off of the ground.
4. When welding or performing other procedures that require the use of an open flame near the fuel tank, disconnect and remove the tank and fuel pipe, and cap the pipe to prevent fuel leakage.
5. Ensure 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.
6. Observe all local and national safety regulations when performing any work.
7. Cover interior with heat-resistant cover to ensure safety when welding.
8. Take care when using gas or cutting torches so as not to burn body seater or interior. Extinguish immediately if they should catch fire.

Body Repair Manual

Tobias Bleicker



Body Repair Manual:

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