

Door Hinge Installation Recommendations

WARNING:

Protective gear such as gloves, safety goggles and other appropriate safety gear should be used whenever working on a car. FOR THEIR OWN SAFETY, those working on a car should be fully educated in safe handling procedures of tools, equipment and car parts.

Tips:

It is recommended that work be done on only one door at a time, so that the final design on one door can be used on the other with ease.

When fitting the hinges to the doors, leave the hinges 1/4" open when the door is in the closed position. This gives an adjustment margin and prevents excess stress when the door is closed.

Mount the door hinge as close to the corner to be pivoted as possible, with about 1/8" margin, and mount the top mount face such that it is about flush with the back edge of the fender.

The cutout in the backing base plate can be used as a pattern for the base mount hole. The structure in which to mount the base plate must be stable and that part of the door jamb structure will likely need to be rebuilt.

Note:

Changes to the body may be needed to made to make the hinges work. Care should be taken in selecting mount angles such that the window, window frame and other parts of the door do not crash with the body. Experimentation with mount angles and door swings may be needed.

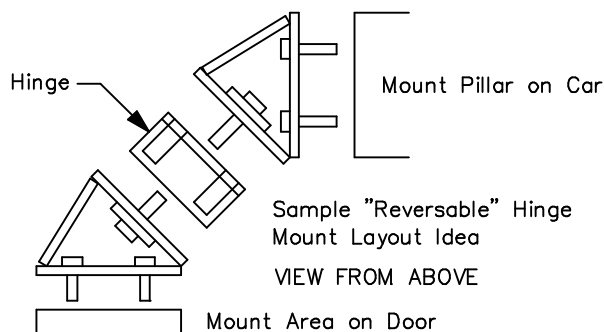
The striker and door latch mechanism will likely need to be changed.

A method of pushing and holding the door up will be needed.

It may be gas shocks, hydraulics, electrical actuators or some other method. This method must be carefully chosen and properly installed so that it provides sufficient, yet not excessive force to lift the door. Even if using hydraulic or electrical actuators, using gas shocks to supplement the upward force is recommended, such that it improves their life and allows greater leverage so that the door can open and close quicker.

Reversability:

One thing that may be desirable is to construct this project such that you can remove the hinges and put the old ones back on. To make this easiest, consider making large flat plates with mount holes, one for each door and one for each door jamb. You may even be able to use the original door hinge mount holes. You may still need to make some modifications to the door and jamb to make this work, but if the hinge mount plates are properly made, the owner should be able to unbolt the "scissor" hinge assembly and bolt the stock hinges back on.



Note: "Reversability" might not be possible with all cars

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