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## 82667-1161 & 82667-1162 1966-1967 GTO/Lemans Billet Hood Hinge Kit Installation Instructions

Thank you for purchasing your set of billet hinges from Ringbrothers - the innovators of the billet hinges. What you have purchased is an original and not a copy.

If you plan to disassemble the hinges before installation for polishing or plating you should know that all the bolts are assembled with blue Loctite. This should be done again when hinges are reassembled. Also, note when disassembling the hinges, that there are two small washers to provide clearance for the pivot bearings on the forward support arms. Make sure that they are replaced when the hinges are reassembled.

### Packing List:

- 1 – Right hinge assembly
- 1 – Left hinge assembly
- 4 – 3/8" x 1" button head bolts with washers for attaching hinge body to inner fender
- 4 – 3/8"-16 Stainless steel nyloc nuts for attaching hinge bracket to hood
- 2 – Ringbrothers brand stainless steel 1.25" bolt kit washers for front nuts on hood brackets
- 2 – Ringbrothers brand stainless steel .875" bolt kit washers for rear nuts on hood brackets
- 2 – Gas springs

**CAUTION:** Make sure ALL bolts are not too long for your application.

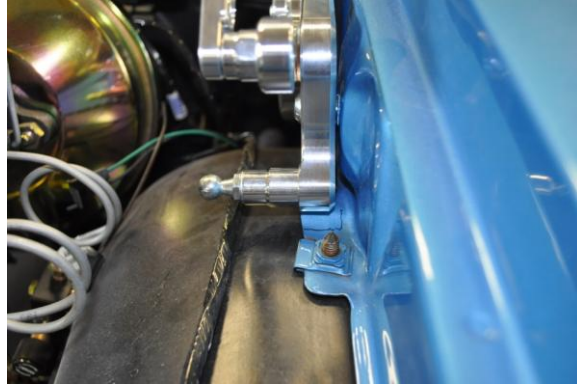
### Tools Needed:

- 9/16" Socket, open end or box end for removing factory hinges
- 7/32" Allen wrench for installing 3/8" button head bolts
- Marker

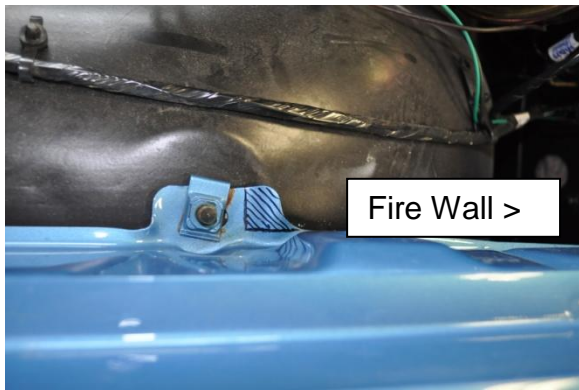
### Installation Steps

1. Remove hood
  2. Remove factory hinges and try to hand tighten a button head bolt where each hinge bolt was removed. If the threads are damaged or corroded re-tap them with a 3/8"-16 tap.
  3. Position each hinge on the correct side and attach the hinge body to the inner fender with the 3/8" x 1" button head bolts. Before tightening the bolts completely, move the hinge body up or down so the bolt is centered in the slot.
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4. Check fender tab to hinge fender bracket clearance. (see picture) on some cars the fender tab will interfere with the down adjustment of the hinge fender bracket.



5. If the fender tab interferes with the hinge fender bracket it must be modified so that it will not interfere with the downward adjustment. A portion of the fender tab can be removed or flattened to gain the required clearance. To mark the portion that must be modified, loosely bolt the hinge on to the fender and trace around front portion of hinge.



6. Each hinge has a gas spring to hold the hood open.  
**NOTE:** When installing the gas spring the barrel of the spring should always be above the rod to keep the lubrication on the rod and not ruin the spring. The spring should be installed after the hinge is mounted to the fender but before the hood is installed
7. Before you attach the hood you need to make sure that the hinges will close square. Measure the hood to hinge mounting holes. Measuring across the hood, record the length between the front two mounting holes. Then record the measurement between the rear two mounting holes on the hood. With the hinges mounted to the car you will need to measure and record the length between the front two holes on the hood bracket. Do the same for the rear two holes on the hood bracket – just as you did on the hood. You are making sure that the measurements are close because the hinges will NOT FLEX. Do to variances in fender width the hood bracket holes may need to be enlarged, especially the front hood bracket hole, for the hood to fit properly. This can be done easily with a die grinder or Dremmel. The 1.25" Ringbrothers brand bolt kit washer should cover up any enlarged hole. The rear hood bracket hole uses the .875" Ringbrothers brand bolt kit washer and may need to have an edge removed with a grinder or sander to fit properly.  
**NOTE:** it may be necessary to loosen the inner fender bolts to adjust the hinge mounting surface in or out.  
**NOTE: HINGES MUST CLOSE SQUARE! THEY WILL NOT FLEX!**

8. Attach the hood to the hinges with the 3/8"-16 nyloc nuts. The 1.25" Ringbrothers brand bolt kit washers should be used on the front hood bracket holes. The .875" Ringbrothers brand bolt kit washers should be used on the rear hood bracket holes and may need to have an edge removed to fit properly. Slide the hood forward as far as possible tightening the bolts. This will assure that the hood will not hit the cowl as it is lowered. Lower the hood **carefully**, watching the clearance front and back as well as both sides. Adjust the hood on the hinge brackets as needed for the correct clearance.
9. Adjust the hood height. Once the hood closes completely, check the height of the hood at the rear corners.