



## Chrysler Gen 3 Hemi Engine Mount Clamshell BHS514 Installation Instructions



Thank you for choosing to use Hooker Blackheart engine mounting components as part of your performance vehicle project. Please read these instructions thoroughly before attempting installation.

### **PRE-INSTALLATION CONSIDERATIONS:**

This engine mount clamshell has been specifically designed for use with Hooker Blackheart Gen 3 Hemi engine swap mounting brackets for 1997-2006 Jeep Wrangler TJ vehicles and requires the use of a Hooker Blackheart 71221016HKR (black), or 71221017HKR (red) polyurethane insert to complete its assembly. A Hooker Blackheart 71223015HKR hardware kit, or similar hardware, will be required to couple a pair of these engine mount clamshells to the Hooker Blackheart engine mounting brackets they are intended to be used with.

While easy to install, careful attention should be paid to the installation steps within this document to ensure the Hooker Blackheart poly insert is not installed into the clamshell upside-down or backwards, which would cause in-car installation issues.

### **COMPATIBILITY INFORMATION:**

This engine mount clamshell is intended for installation on Chrysler Gen 3 Hemi engine blocks only and will not directly line-up with the attachment hole pattern of any other known type/brand of engine.

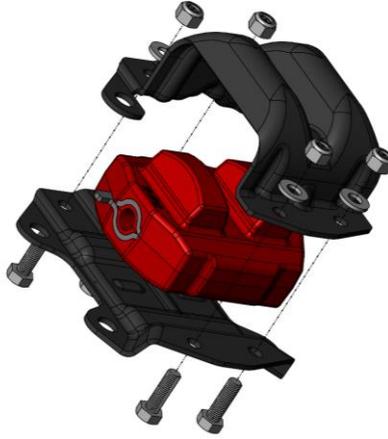
### **BEFORE BEGINNING:**

Check that the hardware package includes the following:

Qty	Desc
1	Gen 3 Hemi Engine Mount Clamshell (upper and lower halves)
4	5/16 Bolts
4	5/16 Washers
4	5/16 Lock Nuts

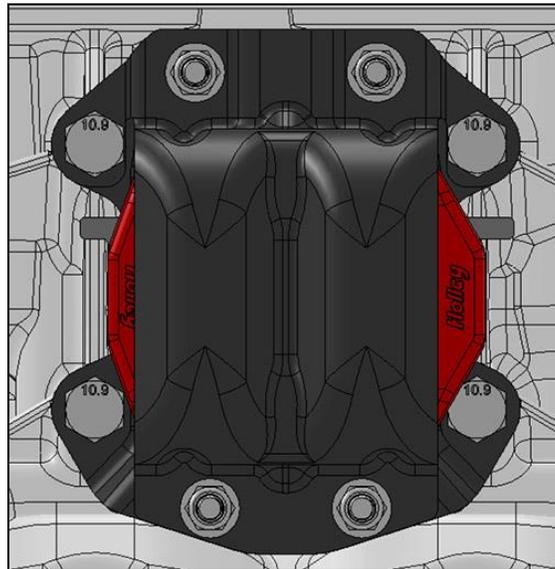
### **INSTALLATION:**

1. Install the insert between the upper and lower clamshell halves while ensuring that the following conditions of orientation are met:
  - A.) The metal tangs protruding from the ends of the insert are offset towards the top of the clamshell halves (the side with a straight edge compared to the slight "V" shaped edge of the bottom side).
  - B.) The longer end of the insert protrudes from the right side of the clamshell housing. This is the case with both mounts to be installed on an engine, which means when installed on the engine, the longer end of the inserts will point towards the front of the car on the passenger side of the engine, and towards the rear of the car on the driver side of the engine.
2. With the above conditions met, fasten the upper and lower clamshell halves together using the 5/16" hardware included with each clamshell housing. Install the fasteners in the orientation shown in **Figure 1** on the next page.



**Figure 1**

3. Ensure the two large holes in the bottom of the upper and lower halves are aligned to allow unobstructed insertion of M10 bolts through each of them and then torque the 5/16 bolt/washer/nut assemblies to approximately 29 lb./ft.
4. Attach the clamshell/insert assemblies to the intended engine with user-supplied M10 fasteners with the straight edge of the clamshells facing up as depicted in **Figure 2**.



**Figure 2**

5. Lower the engine onto the vehicle engine mounting brackets and couple the engine mounts to the brackets using the M12 bolts and nuts included in the Hooker Blackheart 71223015HKR hardware kit, or with similar fasteners. Tighten bolt/nut assemblies

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