



Detroit Speed  
Alternator Relocation Bracket  
P/N: 060436

The Detroit Speed Alternator Relocation Bracket is designed to be used when installing the Ford Coyote engine into the Detroit Speed Alumina-Frame front suspension for your 1964.5-70 Mustang. This is a billet aluminum bracket that allows the alternator to gain clearance at the framerail. It includes an ARP bolt and comes in a black anodized finish. The factory length serpentine belt can still be used with this bracket.



| Item | Description                                | Quantity |
|------|--|----------|
| 1    | Alternator Relocation Bracket              | 1        |
| 2    | 1/2"-13 x 1" L Stainless Steel Flange Bolt | 1        |
| 3    | M8 x 1.25 x 80mm Socket Head Cap Screw     | 2        |
| 4    | Instructions                               | 1        |

**NOTE:** The Detroit Speed Alumina-Frame will still need modification when installing the Coyote engine as instructed below. The Detroit Speed engine mount kit and headers will also need to be used with this engine in the Detroit Speed Alumina-Frame.

Detroit Speed recommends using the following parts with your engine installation:

- CR3Z10346A - Ford Alternator
- BR3Z6B209H - Ford Tensioner
- BR3Z8620D - Ford Serpentine Belt

## Installation:

1. Before the alternator can be installed, the steel framerail mounting adapter on the Aluma-Frame front suspension must be modified. Remove the 1/4" flange on the top side of the adapter measuring 7-5/8" back from the front edge so that it is flush with the base of the steel adapter (Figure 1).



Figure 1 - Modify Framerrail Adapter

2. Remove the same amount of material that was removed from the framerrail adapter plate to the upper control bracket and shims (Figure 2).



Figure 2 - Modify Upper Control Arm Bracket & Shims

3. Modify the rear gusset of the framerail ARB Bracket to match the contour of the alternator (Figure 3). This modification will help if the alternator needs to be replaced.

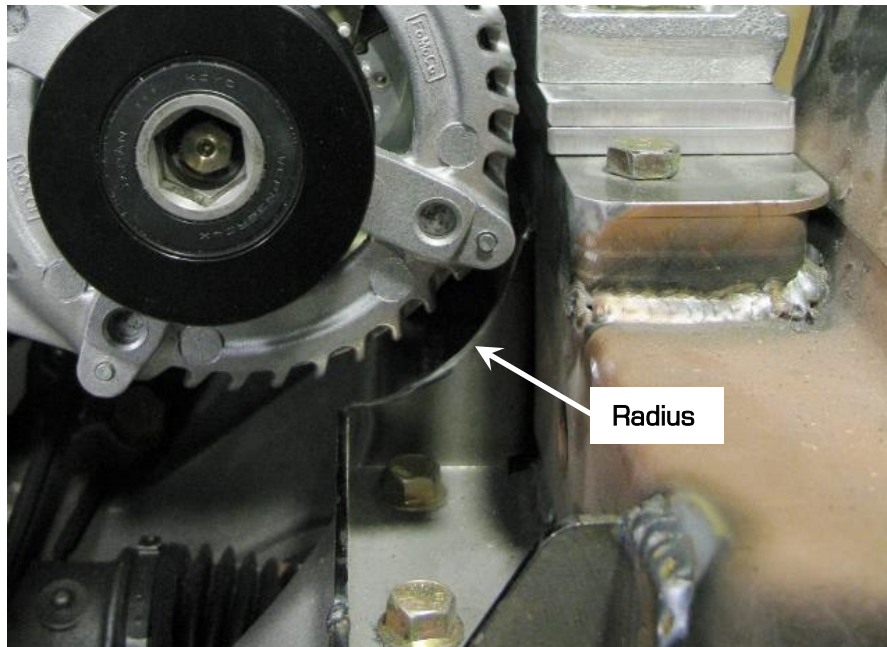


Figure 3 - Modify ARB Bracket

4. Remove the two front cover bolts above the alternator (Figure 4). These bolts will not be re-used with the Detroit Speed relocation bracket.

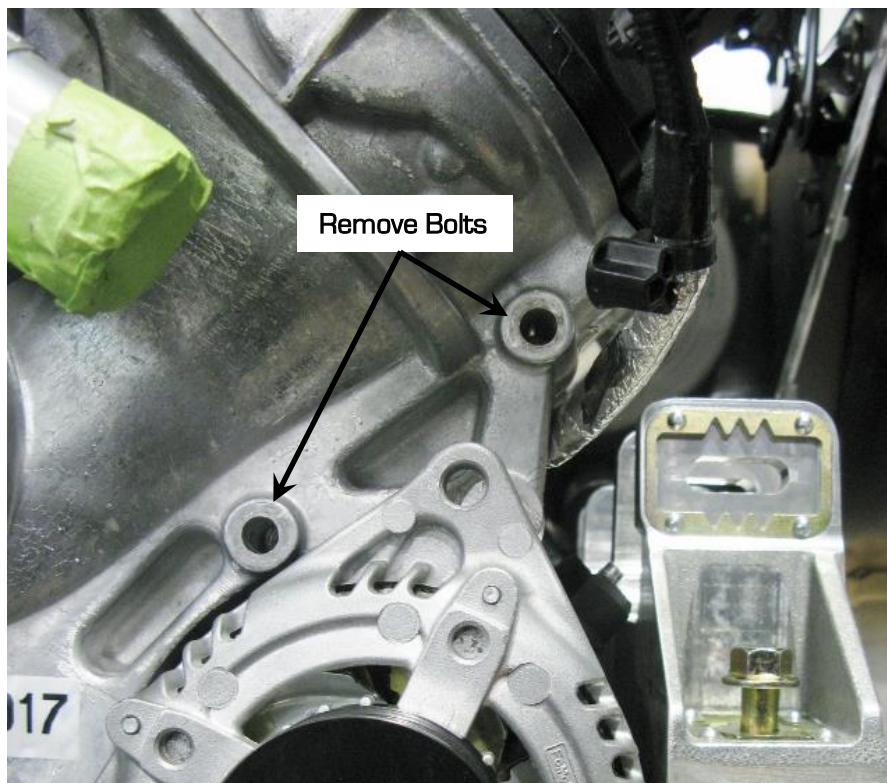


Figure 4 - Remove 2 Front Cover Bolts

5. Install the alternator relocation bracket to the front cover using the two provided M8-1.25 x 80mm socket head bolts. Use medium strength blue Loctite 242 on the threads of the bolts and torque them to 45 ft-lbs.

6. Test fit the alternator to the relocation bracket to see if the mounting hole on the bracket will line up with the alternator (Figure 5). If not, you may need to grind a section of the timing cover to allow the alternator to swing in position with the relocation bracket.



Figure 5 – Test Fit Alternator

7. Install the alternator into the relocation bracket using the provided 1/2"-13 x 1" machined flanged head bolt threaded in to the relocation bracket so the machined bolt holds the alternator in place (Figure 6). Use medium strength blue Loctite 242 on the threads and torque the bolt to 20 ft-lbs. **NOTE:** The bolts in Figure 6 do not match the bolts in the kit.



Figure 6 – Install Relocation Bracket

If you have any questions before or during the installation of this product please contact Detroit Speed at [tech@detroitsspeed.com](mailto:tech@detroitsspeed.com) or 704.662.3272

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