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UMI Performance
Race Proven Suspension Systems

Installation Instructions

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Lower Control Arm Relocation Brackets – Weld-In

Item #3010

Box Contents:

- (2) 3010 Driver Plates
- (2) 3010 Passenger Plates
- (2) 3016C Steel Sleeve
- (1) Hardware Kit (Includes Following)
  - (2) M12 x 100mm Hex Bolt
  - (2) M12 Lock Nut
  - (2) M12 Flat Washer
  - (2) 7/16" x 4" Hex Bolt
  - (2) 7/16" Flat Washer
  - (2) 7/16" Conical Nut

Applications:

* 1978 – 1988 GM G-Body

****NOTE:** (1) 3010 Driver Plate + (1) 3010 Passenger Plate = (1) 3010 Relocation Bracket******

****NOTE:** Grand National 8.5" Rear ends: May require grinding of the factory bracket for the relocation brackets to fit properly due to slight factory variations*******

1. Use of relocation brackets in combination with control arms without offset sway bar mounts is **NOT** recommended.
2. Block the front wheels and jack the vehicle up to a good working height. Position jack stands under the vehicle frame to allow the rear end to hang freely. Make sure vehicle is stable on jack stands.
3. Remove the rear sway bar, if equipped.
4. **ONLY INSTALL ONE SIDE AT A TIME.** Begin with driver's side by removing the rear tire and unbolting the lower control arm (LCA) from its rear mounting point. Use a jack under the yoke to ease bolt removal. Let the LCA swing down. Do **NOT** remove the LCA from its front mounting point.
5. Carefully position the relocation bracket onto the rear axle and position the supplied 7/16" bolt with the 3/4" sleeve into the factory location. Do **NOT** tighten at this time.

****NOTE:** The bottom machined surface of the relocation brackets **MUST** be parallel with the pinion.******

6. To achieve this critical angle symmetry, place a magnetic angle finder on rear end yoke, record this angle, then place the angle finder on the machined bottom surface and pivot the relocation plate until the angle matches the angle measurement from the rear end yoke. (SEE IMAGE #1 & #2)
   EXAMPLE: If yoke is facing downward 2 degrees, you must pivot the relocation plate so the machined bottom surface of the plate is also facing downward 2 degrees.
   ****NOTE:** (1) 3010 Driver Plate + (1) 3010 Passenger Plate = (1) 3010 Relocation Bracket******
   (Backing Plates face each other, inward)
7. Once parallel with the pinion, tack weld on (2) exterior edges of the Plate to hold it parallel with the pinion. Repeat this step for the opposite 3010 Plate.
8. Torque the 7/16" bolt to 70 ft-lbs.
9. Weld fully on the outside of the relocation bracket to the rear axle.
10. Let cool, and then re-install the LCA into the bracket using the supplied M12 x 100mm bolt. Do **NOT** tighten at this time.
    NOTE: The 7/16" bolt may need to be loosened so that the LCA can swing up into the bracket.
11. Repeat steps 2-8 on passenger side.
12. Load the suspension and torque new M12 bolts to 90 ft-lbs.

IMAGE #1: (Measure & Record Yoke Angle)

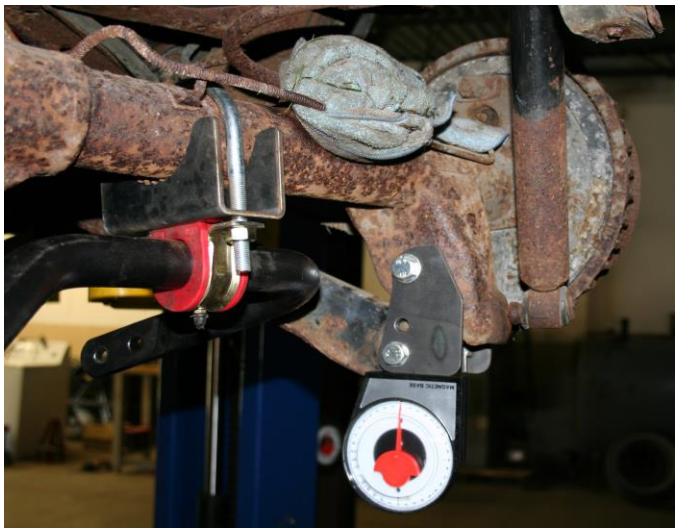

IMAGE #2: (Match Bracket Angle To Yoke Angle)

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UMI Performance Inc.
Made in Pennsylvania, USA