

***P/N: 1110***  
***Tubular Upper A-Arm***  
***1966-1970 Chrysler B-Body, Charger,***  
***Super Bee, Road Runner, GTX***  
***1970-1974 Chrysler E-Body, Cuda, Challenger***



Thank you for your purchase from our new line of B & E-Body parts.  
Please call us at (877) 4NO - ROLL if you have any questions  
regarding the service or installation of your Hotchkis products.

**Before You Start:**

Please read the entire manual before starting. Most pictures shown are of the driver side a-arm. Please perform the same procedure for the passenger side.

**1. Raise Vehicle**

Raise the vehicle and put it up on jack stands. You may also use a 2-post or 4-post lift.



**2. Remove Stock Arms**

Remove the front wheels and uninstall the stock upper A-Arms.

**3. A-Arm Relocater**

Place the A-Arm Relocater into place as shown below. The Relocators are only installed on the forward mounting point. **(NOTE: Picture is showing Passenger side)**



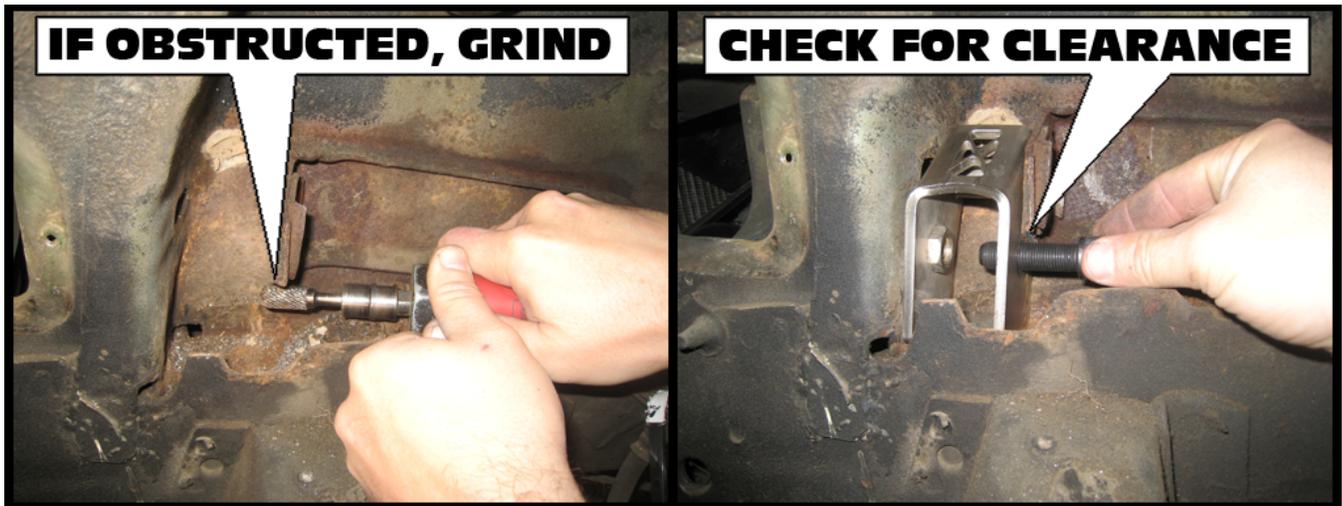
#### 4. Check for Bolt Clearance

In some instances, we seen clearance issues for the Relocator bolt. Check to see if the hole that is used to connect the A-Arm is clear. (NOTE: Pictures below shows the Driver side)



#### 5. Grind if Necessary

If anything is in the way, grind it down and recheck clearance. Repeat until bolt fits.



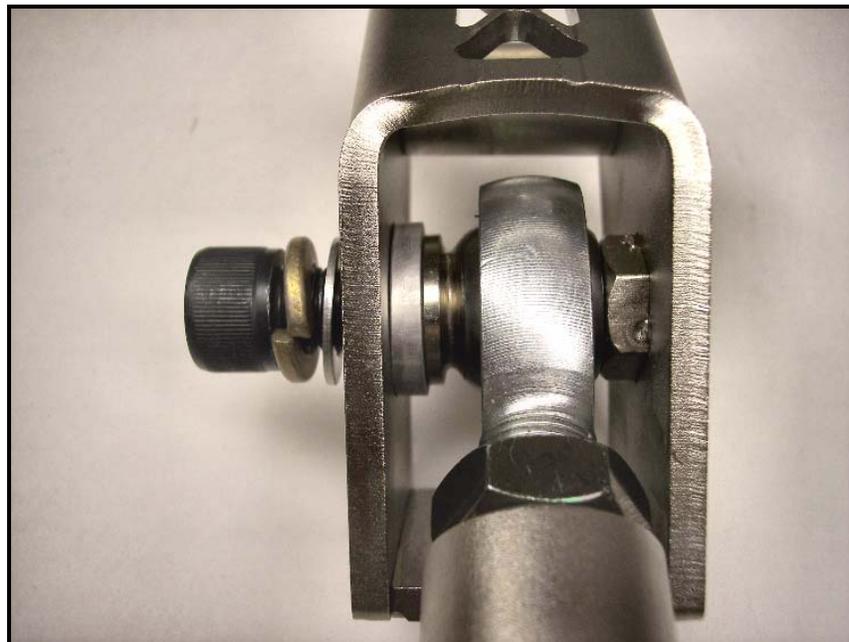
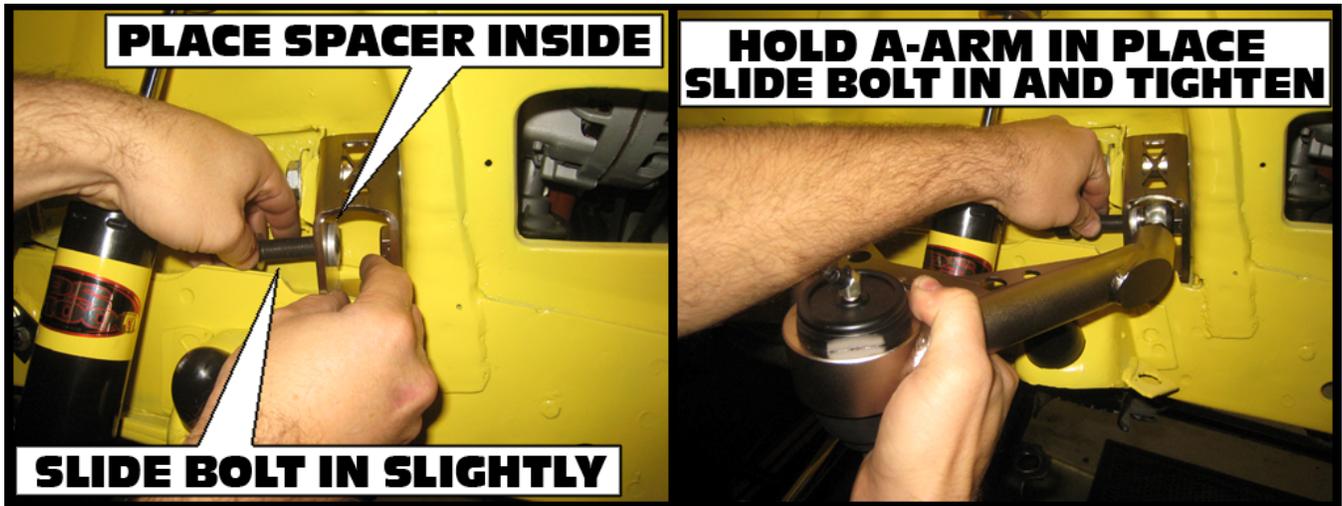
## 6. Install A-Arm Relocators

Slide the stock camber bolt w/washer through the top hole of the A-Arm Relocator. The other end will end up inside the engine bay. Install the washer and nut snugly, but do not fully tighten. You will need to induce some preload to position the Relocator properly. You can do this by rotating the camber bolt clock wise until you feel resistance. The Relocator should position itself snugly onto the frame. Fully tighten the camber bolt by tightening the nut side keeping the bolt static.



### 7. Install A-Arm Front Mount

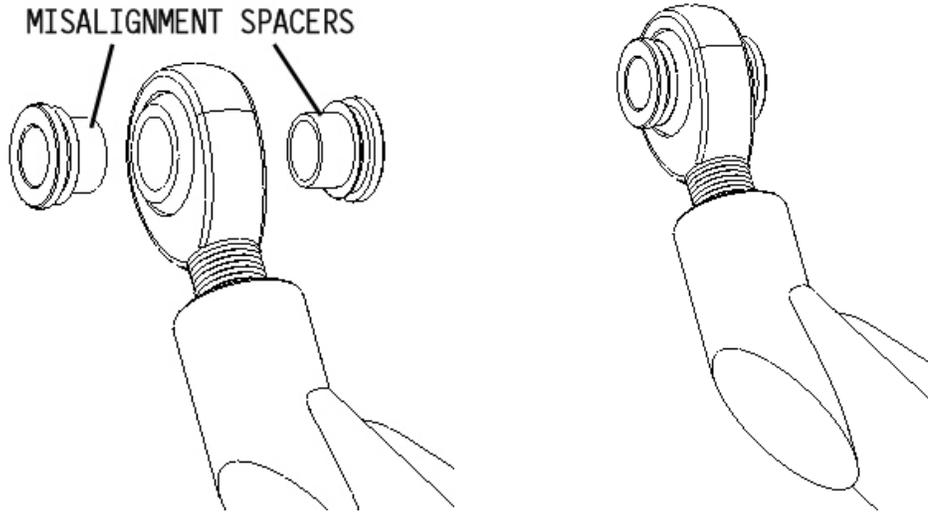
Use hardware kit 17101 and install the split lock washer & AN washer onto each 1/2" socket-head bolt. Included in you're A-Arm kit will be an assortment of aluminum spacers with varying thicknesses. Grab one 0.185" spacer for each Relocator. Insert the socket-head bolt slightly into the bottom hole of the A-Arm Relocator just enough so you can rest the spacer on the tip of it on the inside of the Relocator as shown below. Next, slide the A-Arm into place, slide bolt all the way through, then fully tighten. See bottom picture for full detail.



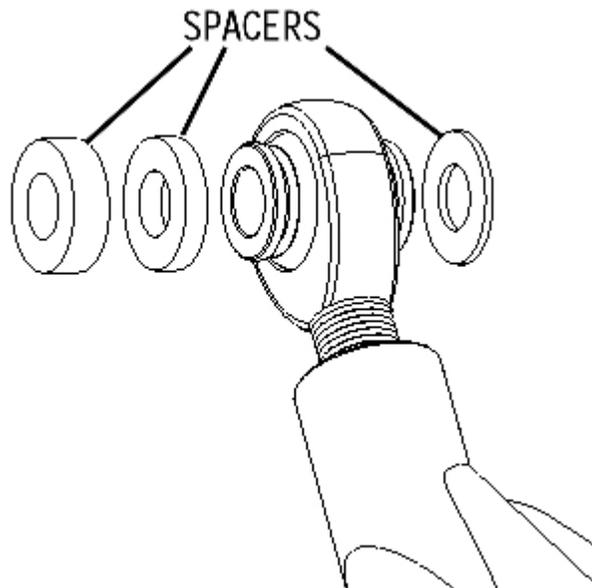
Stack Up: 3/8" bolt---Split Lock washer---AN Washer---Relocator---  
0.185" Spacer---Misalignment Spacer---Heim Joint

## 8. Install Other Side of A-Arm

The trailing end of the A-Arm will be bolted into the stock mounting hole. Install 2 misalignment spacers.



Position the A-Arm so that the other heim joint is lined up with the mounting hole. You will notice there will be gaps on each side of the joint. You will need to add spacers (included in your kit) to take up the gaps. These gaps are not consistent from car to car so you will have to use the appropriate thickness spacers on each gap. You may have to use combinations of varying thicknesses to achieve proper gapping. See below as an example.



Once the proper spacer arrangement is achieved, insert the camber bolt through the stock mount hole and the other end will end up in the engine bay. Install the camber washer and nut. Adjust the bolt so that the bolt is in the center of its adjustment. Fully tighten nut for now. This will be adjusted once you get an alignment.



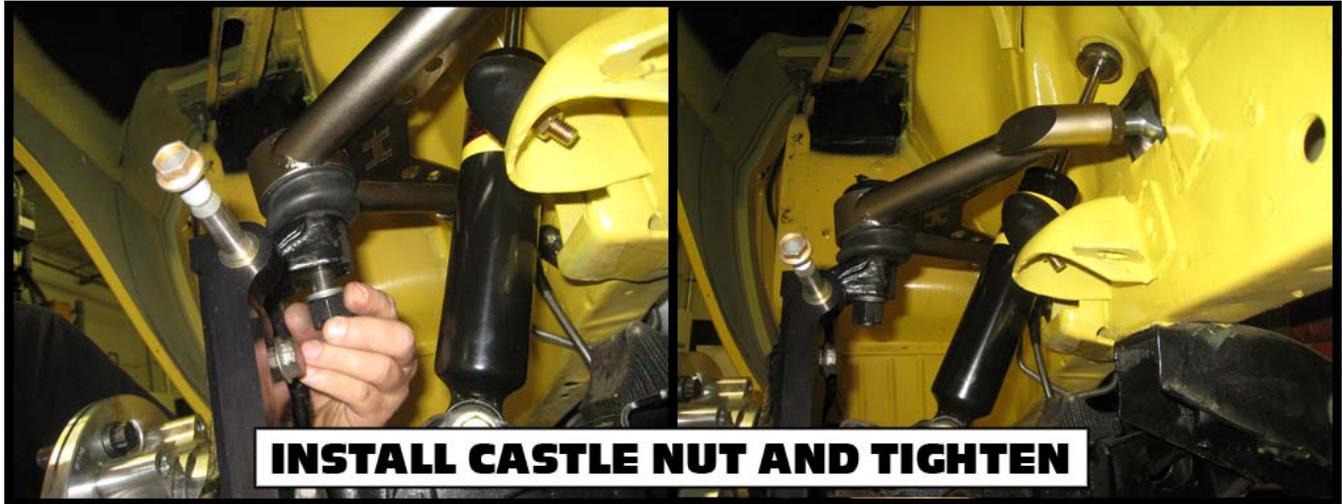
### 9. Connect A-Arm to Spindle

Lift the A-Arm and lineup the ball joint stud to the hole in the spindle and slide the stud in.



### 10. Install Castle Nut

Install the castle nut to the other end of the ball joint stud and tighten until there is clearance for the cotter pin to be inserted into the ball joint stud.



### 11. Install Cotter Pin

Install the cotter pin. Twist and cut as needed to ensure it stays in place.

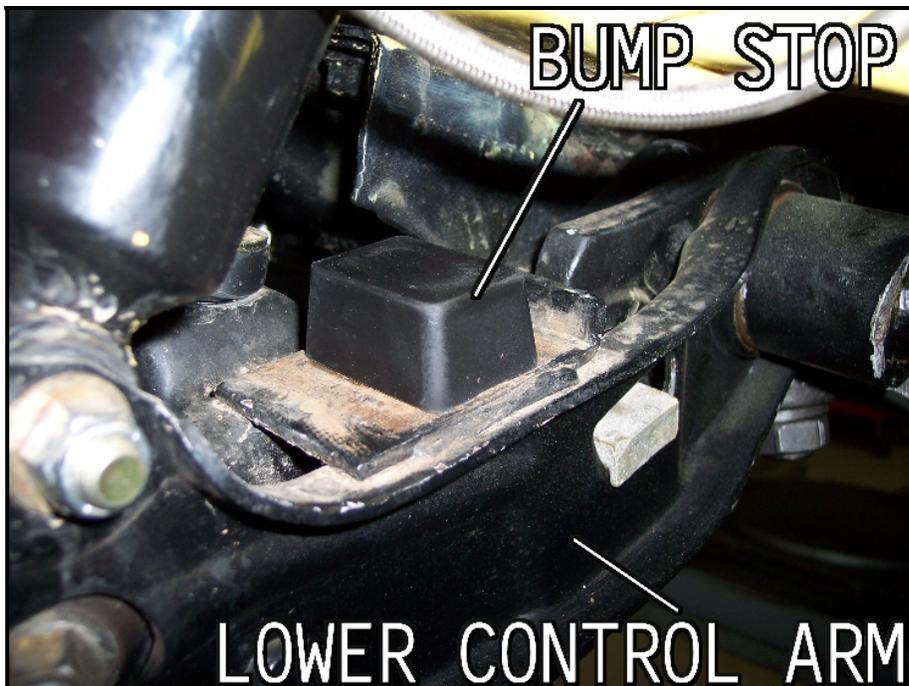


## 12. Install Bumpstops and Droopstops

Remove the stock droop stop and install the included Hotchkis "bullet" Shaped version.



Remove the stock bump stop and install the included Hotchkis "Rectangle" Shaped version.



13. Repeat the steps for the other side and you're done! Have an alignment shop align the front end. Recommended performance specs:

Camber = 1° negative

Caster = As much positive caster as possible, as long as both sides have the same spec.



## Hotchkis Performance LLC Return Policy & Limited Warranty

Effective September 1, 2007. This return policy and limited warranty supersedes all previous policy and warranty statements. Policies and warranties are subject to change without notice. Hotchkis Performance is not responsible for printing errors.

### Return Policy

We want you to be completely satisfied with your Hotchkis Performance product. In case you're not, you can exchange or return it within 30 days of the purchase date. To obtain a full refund on unused products, excluding freight, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials and be in sellable condition. For products presenting signs of use or damage, only warranty claims will be accepted. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy. All returns however, should be made to your dealer, not to Hotchkis Performance directly.

### Limited Warranty

Hotchkis Performance warrants its products against defects in materials and workmanship for the term of 36 months (3 years) from the date of purchase. This Warranty only applies to the original retail purchaser who retains ownership of the vehicle on which the product was originally installed. If the product is determined to be defective, Hotchkis Performance will repair, replace or refund the purchase price of the defective product at Hotchkis Performance's sole discretion, which shall fully satisfy and discharge any and all warranty claims. Any repaired or replaced product will be returned to the sender freight prepaid.

### Exclusions from Warranty

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- Improperly installed or installed by someone other than a qualified, licensed auto mechanic experienced in the installation and removal of suspension products;
- Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;
- Installed in any vehicle that has been modified;
- Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or
- Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing or racing-type activities or off-road use.

### Limitation of Warranty

This limited warranty is the entire and only warranty for the products and may not be modified or supplemented by any other person or company in any form. Any description of the products, by anyone, is for the sole purpose of identifying them and is not part of the basis of the bargain, and does not constitute a warranty that the products will conform to that description. The statements of any salesperson do not constitute part of this limited warranty and cannot be relied upon as a warranty.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

### Technical Information

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- **Has the product been installed on the original vehicle on which it was installed at all times?**
- **Is the product unmodified and clean?**
- **Is the reason for return a legitimate product defect?**

If the answer to all these questions is YES, please contact our Customer Service Department at (562) 907-7757. You will be given a Returned Goods Authorization Number (RGA) valid for 60 days. You will also be asked to ship the product prepaid to our facility. All shipments MUST be (i) prepaid, (ii) include the original invoice or sales receipt, (iii) show the RGA on the outside of the package and (iv) include your name, address, make and model of the vehicle, and a brief description of the claimed defect, including the circumstances under which the defect occurred. Warranty related inquiries should be sent to the following address:

**HOTCHKIS PERFORMANCE, LLC  
C/O CUSTOMER SERVICE  
12035 BURKE ST. SUITE 13  
SANTA FE SPRINGS, CA 90670**

Hotchkis Performance will not accept product returns without the RGA number, receipt and the information described above. C.O.D. or collect shipments will be refused. Once the returns are received at Hotchkis Performance, we will evaluate the products, verify the sales receipt, and investigate the warranty claim.

## 14366, 14385

Adjustable Strut Rods

67-76 Chrysler A-Body

1966-1970 Chrysler B-Body

1970-1974 Chrysler E-Body



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regarding the service or installation of your Hotchkis products.

**Before You Start:**

Please read the entire manual before starting. Most pictures shown are of the passenger side strut rod. Please perform the same procedure for the driver side.

**1. Raise Vehicle**

Raise the vehicle and put it up on jack stands. You may also use a 2-post or 4-post lift.

**2. Disconnect the Front Sway Bar**

If your car has a front sway bar, disconnect the front sway bar ends that attach to the lower control arms.

**3. Disconnect the Strut Rod From the K-Member**

Undo the strut rod nut accessible from the front of the K-member. You may discard this hardware.

**4. Disconnect Strut Rod From Lower Control Arm**

In order to get the stock strut rod out, you will need to shift the lower control arm toward the rear of the car to gain more room. First undo the nut securing the strut rod to the lower control arm. Retain this nut for reinstallation.

Loosen the torsion bar tensioner bolt located on the bottom of the lower control arm to relieve the load from the torsion bar.

Next, loosen and remove the main nut securing the lower control arm to the k-member.

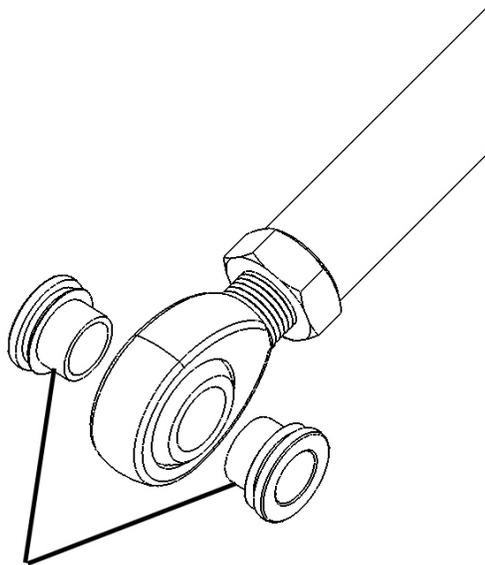
There is a snap ring at the rear end of the torsion bar that keeps it from moving back. Remove the snap ring and shift the torsion bar 3-4" towards the back.

You should be able to shift the lower control arm slightly towards the back allowing you to pop out the strut rod end out of the lower control arm hole.

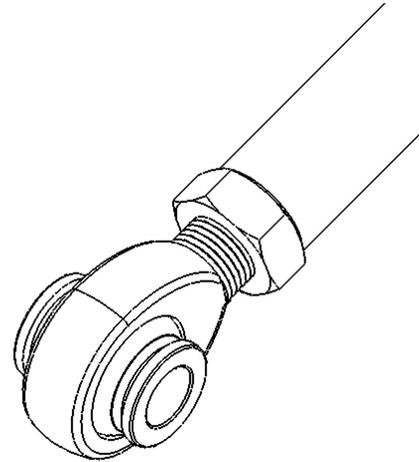
The stock strut rod should be free from the vehicle.

### 5. Install Clevis Assembly onto Strut Rod

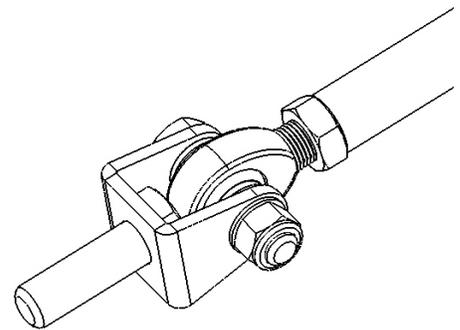
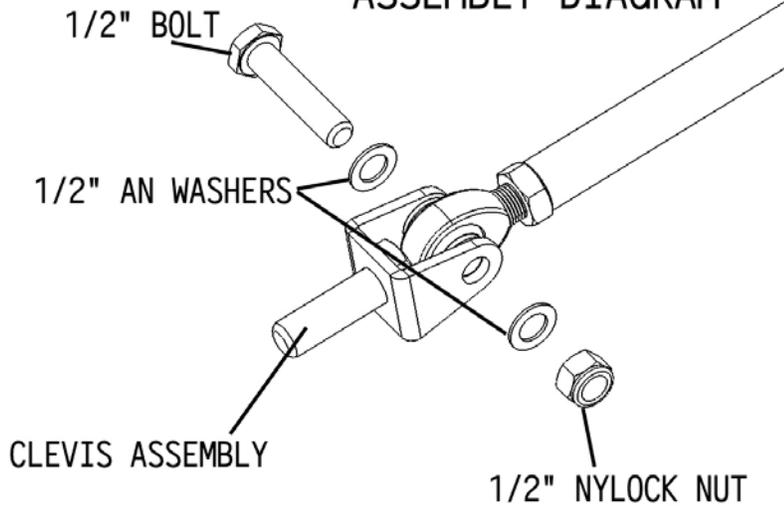
Install 2 misalignment spacers onto the heim joint. Insert the 1/2" bolt, washers and nuts onto the clevis assembly attaching the clevis to the heim joint. Fully tighten the 1/2" bolt



MISALIGNMENT SPACERS



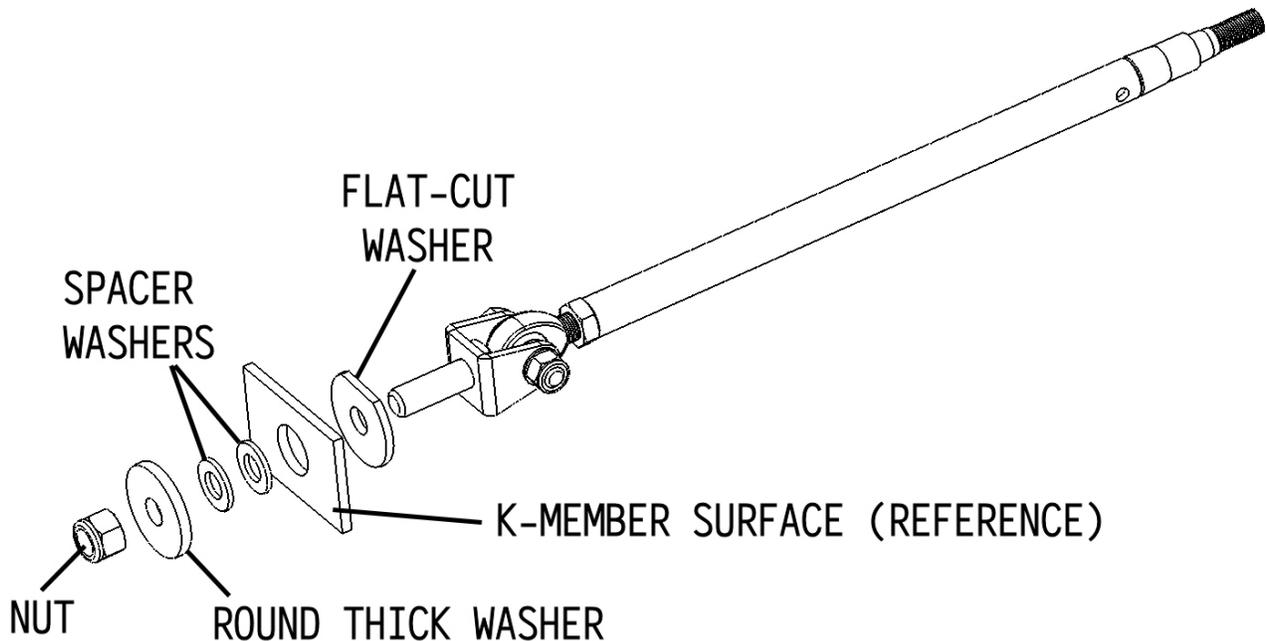
### ASSEMBLY DIAGRAM



## 6. Install the Strut Rod

We'll start by bolting in the front end first. Following the diagram below to see the order of parts.

# ASSEMBLY DIAGRAM



Install the large flat-cut washer onto the clevis stud and insert the front mount into the k-member hole.

If needed, rotate the flat-cut washer to alleviate any clearance issues with the sheet metal.

You will notice that the k-member hole is much larger than the clevis stud. This is ok, since you will be inserting 2 spacer washers from the front side of the k-member to take up the gap. The spacer washers will fit inside the k-member sheet metal.

Once the spacers are in place, install the large round washer and 5/8" nylock nut.

Moving on to the rear mount, insert the rear stud into the lower control arm hole. Do not install the stud nut at this time.

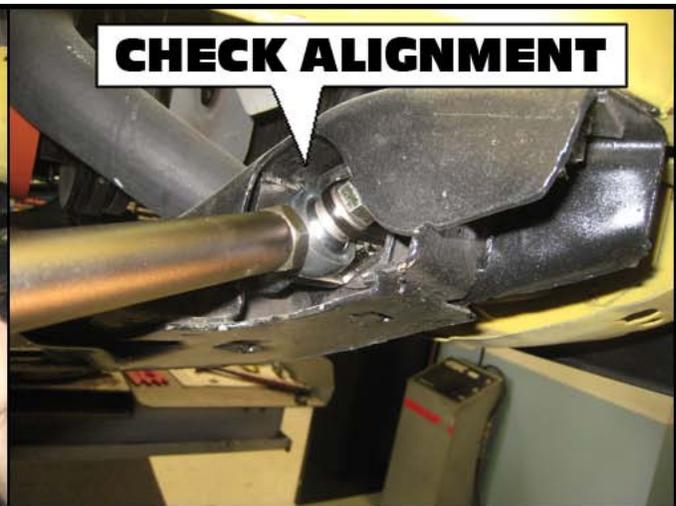
Reinstall the lower control arm back onto the k-member. Push the torsion bar forward and insert it into the lower control arm pin hex.

Next rotate/thread the strut rod body in or out to a desired length. You can dial in more positive caster by shortening the strut rod. Do not over extend the strut rod past the recommended length (see diagram below). Fully tighten the rear strut rod nut.



Center the heim joint so that it is not twisted one way or another. Tighten the heim joint jam nut.

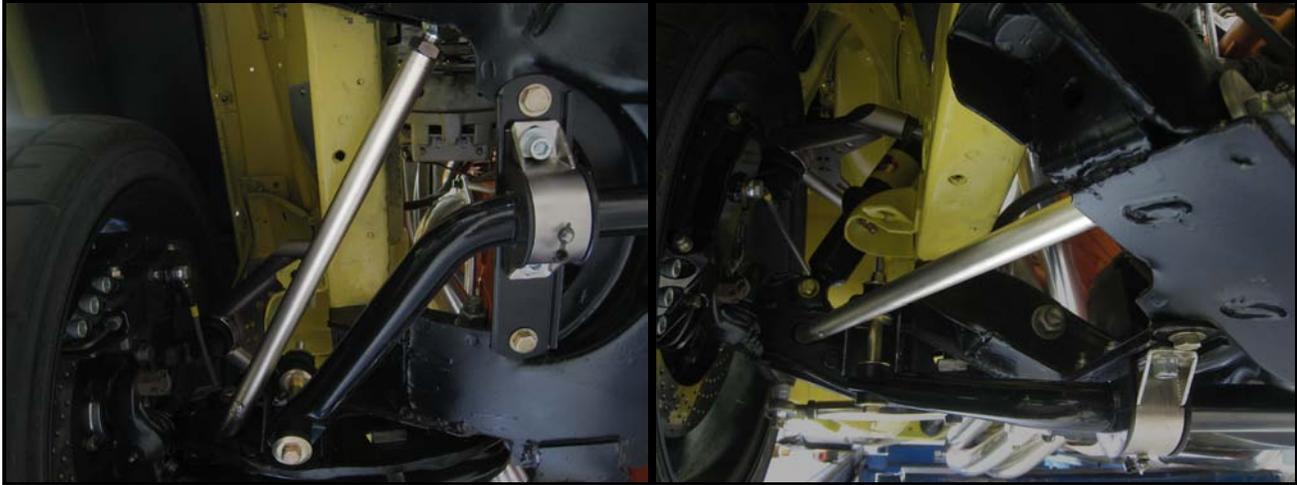
Fully tighten the front strut rod 5/8" nut you installed earlier. To avoid spinning the clevis while tightening, use a pry bar to hold the clevis.



Restore torsion bar snap ring. Adjust the torsion bar tensioner back to where it was for proper pre-load.

## 7. Repeat on Drivers Side

Repeat the steps on the driver's side and you're done!



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We want you to be completely satisfied with your Hotchkis Performance product. For products, presenting signs of shipping damage please contact the freight carrier immediately. All our products are guaranteed to be free from manufacturer's defects. If your order arrives with a manufacture defect, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. **If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy. All returns however, should be made to your dealer, not to Hotchkis Performance directly.**

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- **Improperly installed or installed by someone other than a qualified, licensed auto mechanic experienced in the installation and removal of suspension products;**
- **Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;**
- **Installed in any vehicle that has been modified;**
- **Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or**
- **Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing, or racing-type activities or off-road use.**

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**THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT.** Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

#### **Technical Information**

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**HOTCHKIS PERFORMANCE, LLC  
C/O CUSTOMER SERVICE  
8633 Sorensen Avenue  
SANTA FE SPRINGS, CA 90670**

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## 16366

### Steering Tie Rods

1966-1970 Chrysler B-Body, Charger,  
Super Bee, Road Runner, GTX

1970-1974 Chrysler E-Body, Cuda, Challenger



Thank you for your purchase from our new line of B & E-Body parts.  
Please call us at (877) 4NO - ROLL if you have any questions  
regarding the service or installation of your Hotchkis products.

**Before You Start:**

Please read the entire manual before starting. These steering tie rods were designed to reduce weight, provide rigid steering feel, and allow for shimming for reducing bump steer. We highly recommend using our (P/N:1110) Upper A-Arms in conjunction with your Hotchkis steering tie rods for maximum suspension geometry and performance.

**1. Raise Vehicle**

Raise the vehicle and put it up on jack stands. You may also use a 2-post or 4-post lift.

**2. Remove Stock Steering Tie Rods**

Remove the left and right stock steering tie rods from the vehicle. A big hammer is your friend in removing the ball joint studs from center link and spindle. A pickle fork may be needed if they are really tight.

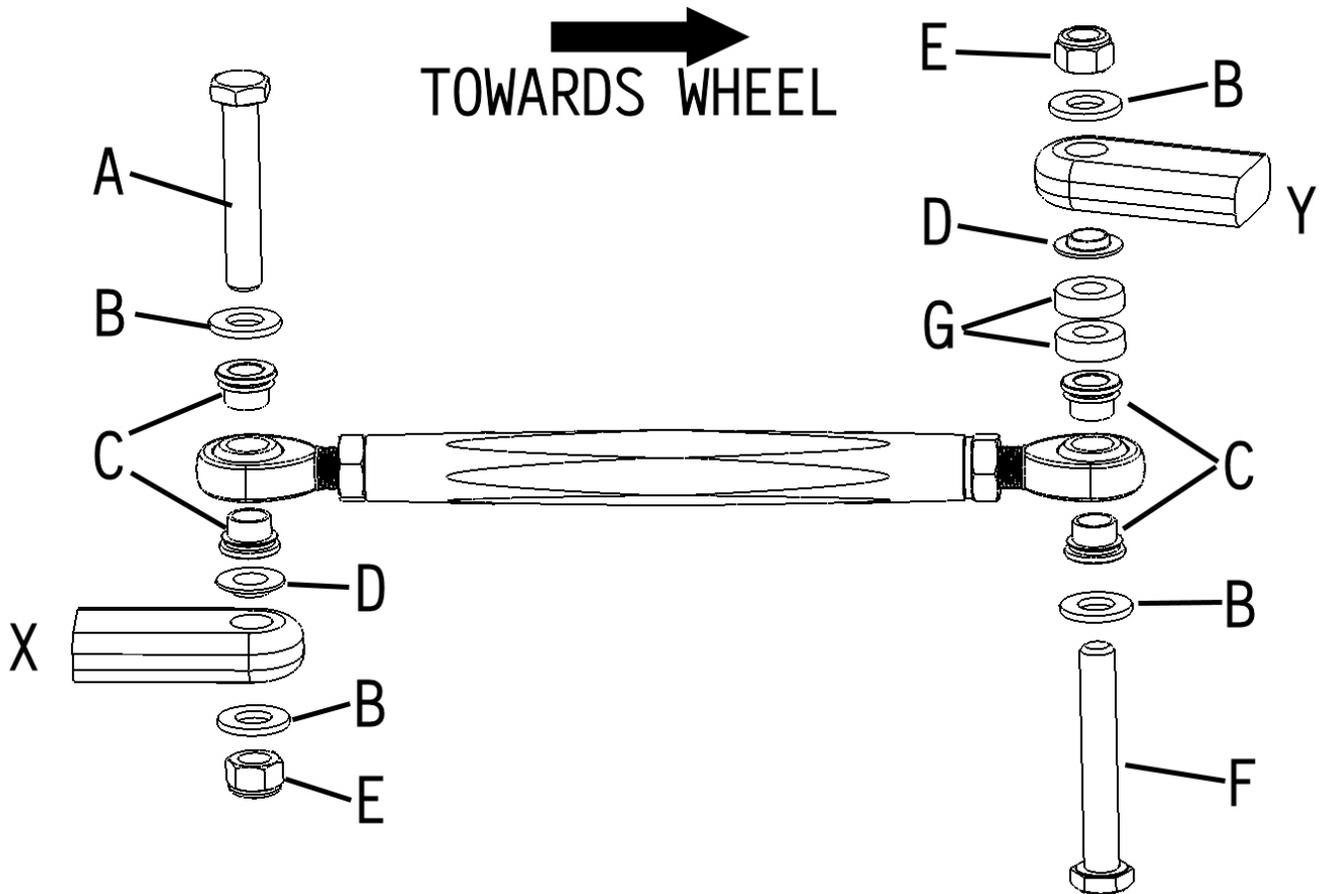
**3. Set Initial lengths for the Hotchkis Tie Rods**

With the stock tie rods off, measure the center to center dimension of each link. Spin the hotchkis turnbuckle so that the center to center dimension matches the stock part. This will be an initial setting. A front end toe alignment will be needed once the tie rods are in place.

#### 4. Install Hotchkis Steering Tie Rods

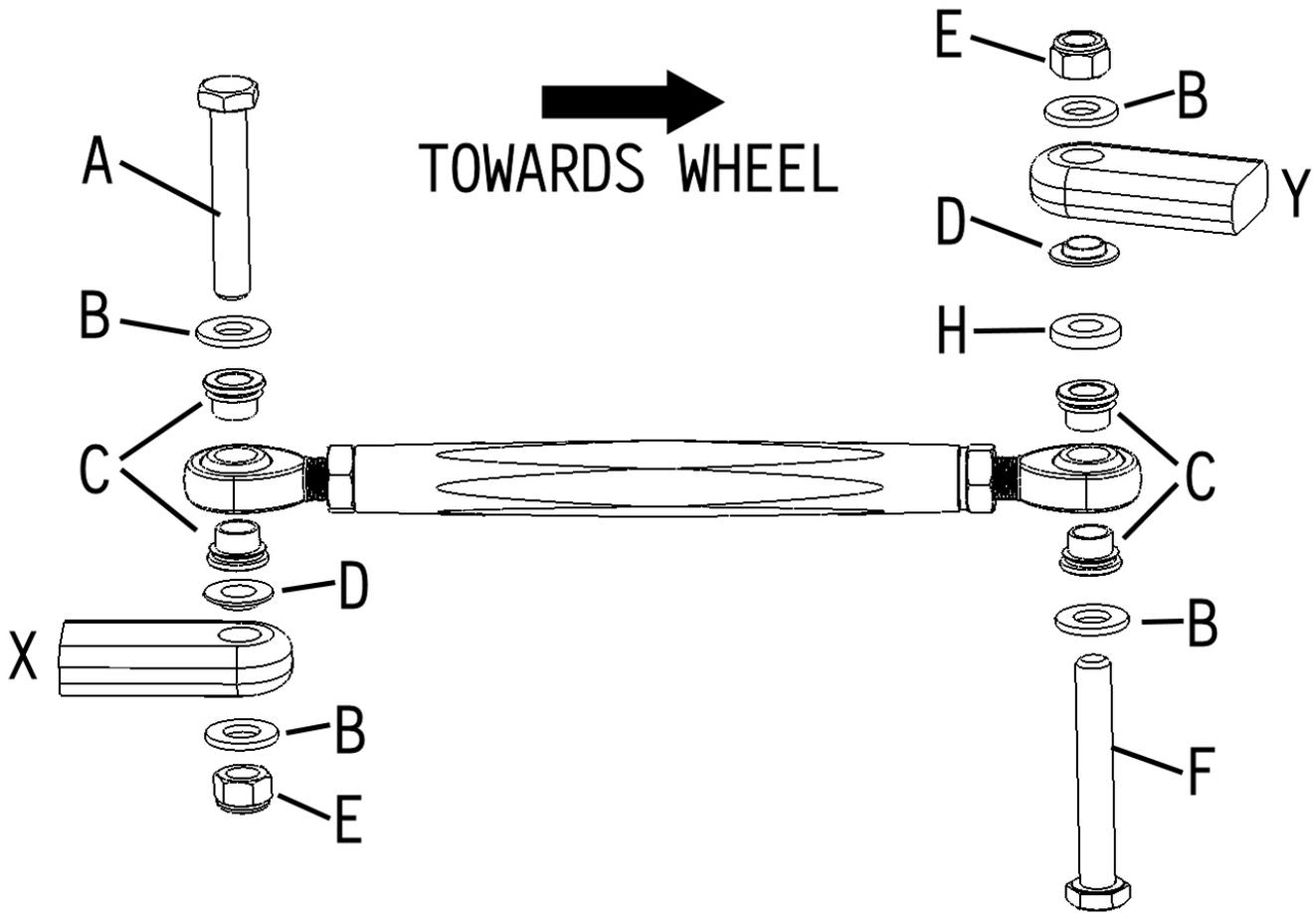
The diagram below shows the order of the parts. The generic pieces labeled X and Y represents the vehicle's center link and spindle consecutively. They are shown for assembly purposes and are not included in the kit. Please refer to the suggested diagram that suits your model. (Note: The spacer suggestions are optimum for use with cars equipped with Hotchkis Upper A-Arms (P/N:1110) with camber setting of  $-0.5^{\circ}$ . Spacer combinations may vary with stock or other suspension geometries. Check Bump steer for these configurations.)

#### 70-74 E-Body Cars & 66-69 B-Body Cars



- A) 1/2" x 3" hex bolt
- B) 1/2" SAE washer
- C) Misalignment Spacers
- D) Taper Adapter (note direction: tapered section inserts into tapered hole)
- E) 1/2" Nylock Nut
- F) 1/2" x 3-1/2" hex bolt
- G) E-Body Spacers 0.300" Thick (P/N:16400147)
- X) Center Link
- Y) Spindle

1970 B-Body Cars



- A) 1/2" x 3" hex bolt
- B) 1/2" SAE washer
- C) Misalignment Spacers
- D) Taper Adapter (note direction: tapered section inserts into tapered hole)
- E) 1/2" Nylock Nut
- F) 1/2" x 3-1/2" hex bolt
- H) E-Body Spacer 0.184" Thick (P/N:16400146)
- X) Center Link
- Y) Spindle

**5. Finishing Steps**

Once the tie rods are bolted up, please have an alignment shop set your front toe setting. Hotchkis suggests 1/16" of TOE-IN. If you do not have the Hotchkis 1110 upper A-Arms installed, you may want to check for bump steer. Add or remove the spacers on the outer tie rod end to fine tune the bump steer. We also offer spacers with varying thicknesses directly. Please call 562-907-7757.

P/N: 16400144 = 0.065" spacers

P/N: 16400145 = 0.092" spacers

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- **Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;**
- **Installed in any vehicle that has been modified;**
- **Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or**
- **Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing, or racing-type activities or off-road use.**

### Limitation of Warranty

This limited warranty is the entire and only warranty for the products and may not be modified or supplemented by any other person or company in any form. Any description of the products, by anyone, is for the sole purpose of identifying them and is not part of the basis of the bargain, and does not constitute a warranty that the products will conform to that description. The statements of any salesperson do not constitute part of this limited warranty and cannot be relied upon as a warranty.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

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- **Do you have the original invoice or sales receipt?**
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- **Are you the original purchaser?**
- **Was the product properly installed by a qualified, licensed auto mechanic?**
- **Has the product been installed on the original vehicle on which it was installed at all times?**
- **Is the product unmodified and clean?**
- **Is the reason for return a legitimate product defect?**

If the answer to all these questions is YES, please contact our Customer Service Department at (562) 907-7757. You will be given a Returned Goods Authorization Number (RGA) valid for 60 days. You will also be asked to ship the product prepaid to our facility. All shipments MUST be (i) prepaid, (ii) include the original invoice or sales receipt, (iii) show the RGA on the outside of the package and (iv) include your name, address, make and model of the vehicle, and a brief description of the claimed defect, including the circumstances under which the defect occurred. If the warranty claim is deemed valid then Hotchkis will estimate shipping costs to return the repaired or replacement part and contact you for payment. Hotchkis's Limited warranty requires that any repaired or replaced product will be returned to the sender excluding the cost of freight. Warranty related inquires should be sent to the following address:

**HOTCHKIS PERFORMANCE, LLC  
C/O CUSTOMER SERVICE  
8633 Sorensen Avenue  
SANTA FE SPRINGS, CA 90670**

Hotchkis Performance will not accept product returns without the RGA number, receipt and the information described above. C.O.D. or collect shipments will be refused. Once the returns are received at Hotchkis

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Performance, we will evaluate the products, verify the sales receipt, and investigate the warranty claim. Any repaired or replaced product will be returned to the sender.

**Effective December 1, 2010. This return policy and limited warranty supersedes all previous policy and warranty statements. Policies and warranties are subject to change without notice. Hotchkis Performance is not responsible for printing errors.**

# HOTCHKIS HOTCHKIS SPORT SUSPENSION

2255 SPORT SWAY BAR SET  
62-69 CHRYSLER B-BODY



Thank you for your purchase.

Please call us at 1-877-4NO-ROLL if you have any questions regarding your Hotchkis Performance products. Visit us online @ [www.hotchkis.net](http://www.hotchkis.net)

This installation may require drilling new mounting holes in the frame for rear sway bar and welding for the front. Please read the instructions carefully to avoid unnecessary drilling.

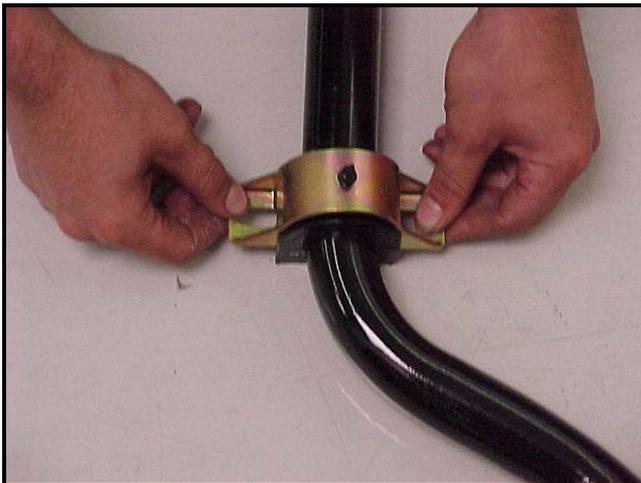
## INSTALLATION OF HOTCHKIS PERFORMANCE FRONT SWAY BAR

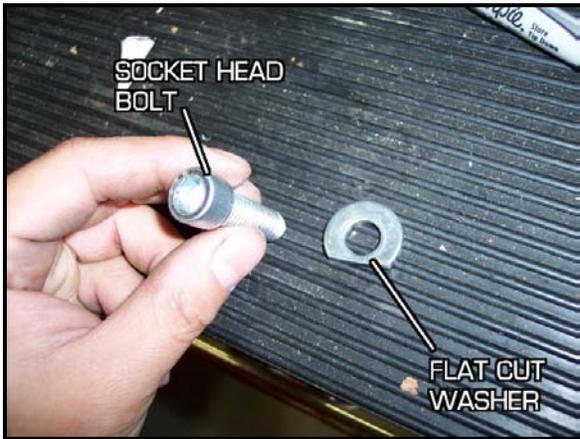
1. This installation should be done on a 4 post alignment rack or drive on ramps. It is important that the car's weight is on all 4 wheels in order to ensure that the suspension is in normal static ride height position.
2. Begin by unbolting the metal radiator brace at the front of the vehicle that connects to the radiator support to the front of the K-member. Please retain the radiator brace and the stock hardware for reinstallation.
3. Unbolt and remove the stock end links connecting the old sway bar ends to the lower control arms.
4. Unbolt and remove the stock bushing retainer brackets. The bushings are trapped in the brackets and should be removed with the brackets and stock sway bar. The entire assembly should just drop out when unbolted.

5. Our main objective is to find out where you will be welding on the Hotchkis bushing retainer brackets. In order to do that you will have to mock up where the bar is going to be positioned. We will first attach the bar to the end links. Raise the Hotchkis front sway bar into position on the car. Install the end links that connect the lower control arm to the sway bar ends. See picture. Snugly tighten, but do not make too tight.

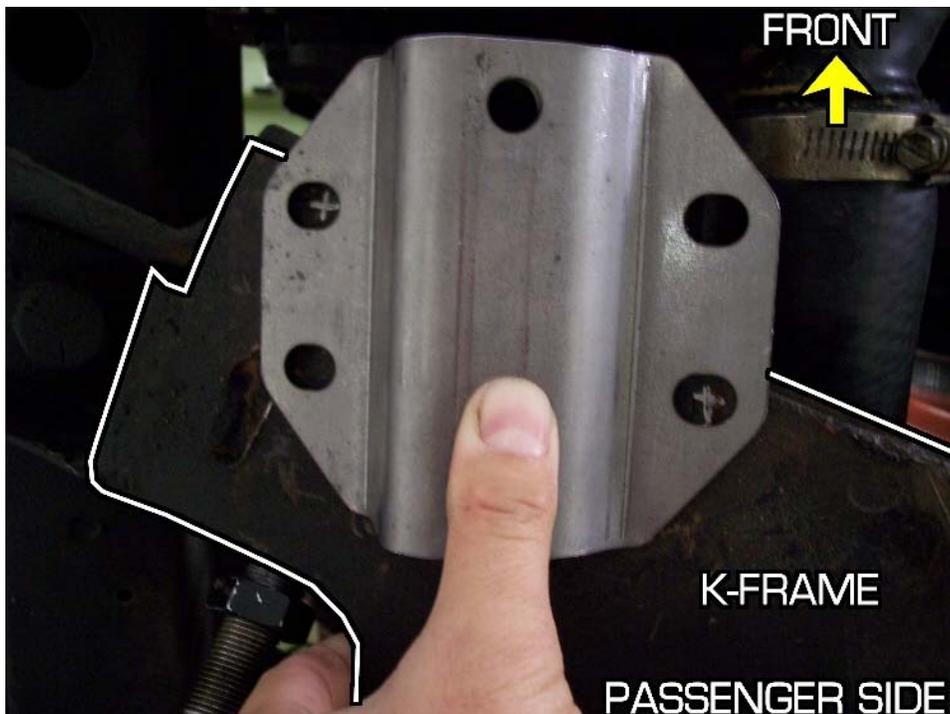


6. Once the end links are attached, install the bushings and brackets to the bar. Make sure to apply the included silicon grease. You will also need to install the new Hotchkis bushing retainer bracket onto the bushing bracket as shown in the picture. Attach the driver and passenger side D-Shaped bushing & bracket and position them as outboard as possible.

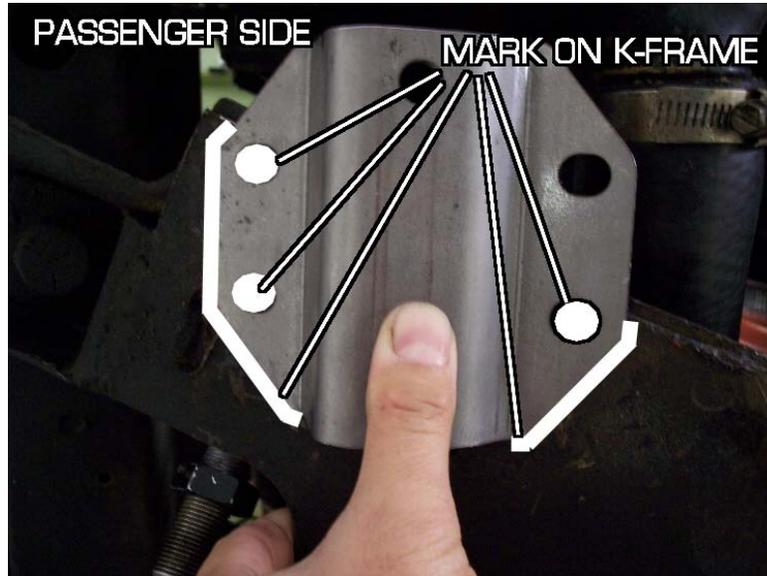




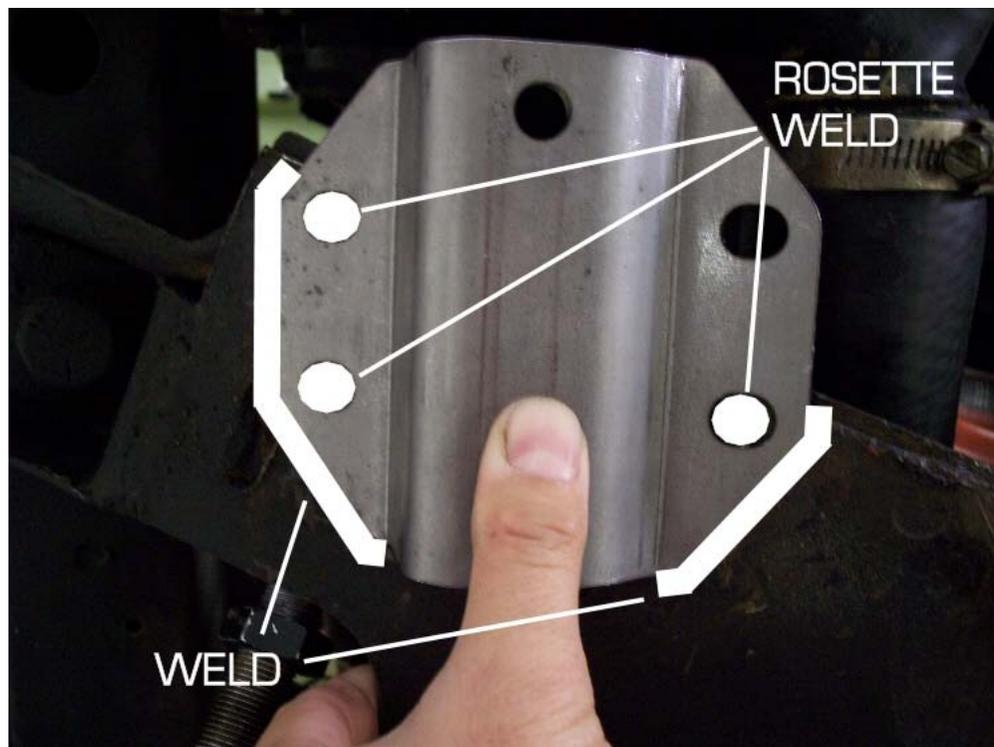
Now you can raise the bar up until the bushing retainer brackets mate flush to the k-frame bottom surface. Make sure the center section of the sway bar is not contacting any part of the k-frame. Bushing retainer bracket should be positioned similar to the picture below. The white outline depicts the k-frame. (Picture shows bracket disconnected from the sway bar for clarity purposes).



Use a paint marker to mark where the holes are as well as the outer edges that mate with the k-frame. (Picture shows bracket disconnected from the sway bar for clarity purposes.)



7. Once the k-frame is marked, use an angle grinder with a sand paper attachment to remove all of the paint and grime on the areas previously marked. What we are doing is cleaning the area that is going to be welded. You will also need to sand the bushing retainer bracket in the mating areas too.
8. Reposition the bar back onto the k-frame so the retainer bracket is sitting flush with the k-frame. A jack does a good job of holding the bar in place for you. You will now weld the bracket to the k-frame. The best way to start is to tack weld a couple of spots around the bracket. Once the brackets are secure, unbolt the D-shaped bushing bracket and end links to get the bar out of the way. Finish welding a bead as shown in the picture below. Also weld up the holes creating a rosette weld.



9. Use some black spray paint to coat the exposed metal
10. Reinstall the end links and D-shape bushings & brackets. Fully tighten all hardware.
11. Reinstall the stock radiator brace.

You are finished with the front sway bar installation.



# HOTCHKIS HOTCHKIS SPORT SUSPENSION



## INSTALLATION OF HOTCHKIS PERFORMANCE REAR SWAY BAR

- 1) Securely block the front wheels of the vehicle. Jack up the rear of the vehicle and place it on jack stands. Place the jack under the differential housing on the axle to raise the axle to the vehicle ride height for installation of the sway bar.
- 2) Locate the hole on the bottom of each side of the frame behind the rear axle. Use the triangle mounting brackets provided to locate and mark on the frame the location of the second hole.



- 3) Use the mark made on the frame to drill a 1/2" diameter hole. The studed bracket included in the kit should now drop into place through the two holes in the frame. Use the larger hole in the frame to slide the bracket into the frame.



- 4) Use the grease pack provided with the kit to apply a thick coat of grease to the sides of the dog bone end link bushings. Attach the end links to the sway bar on the outside of the sway bar ends. Install the hardware with the bolt head towards the outside of the frame. The larger washer should be against the bushing and the smaller washer will be to the inside against the sway bar. See the picture below for assembly.



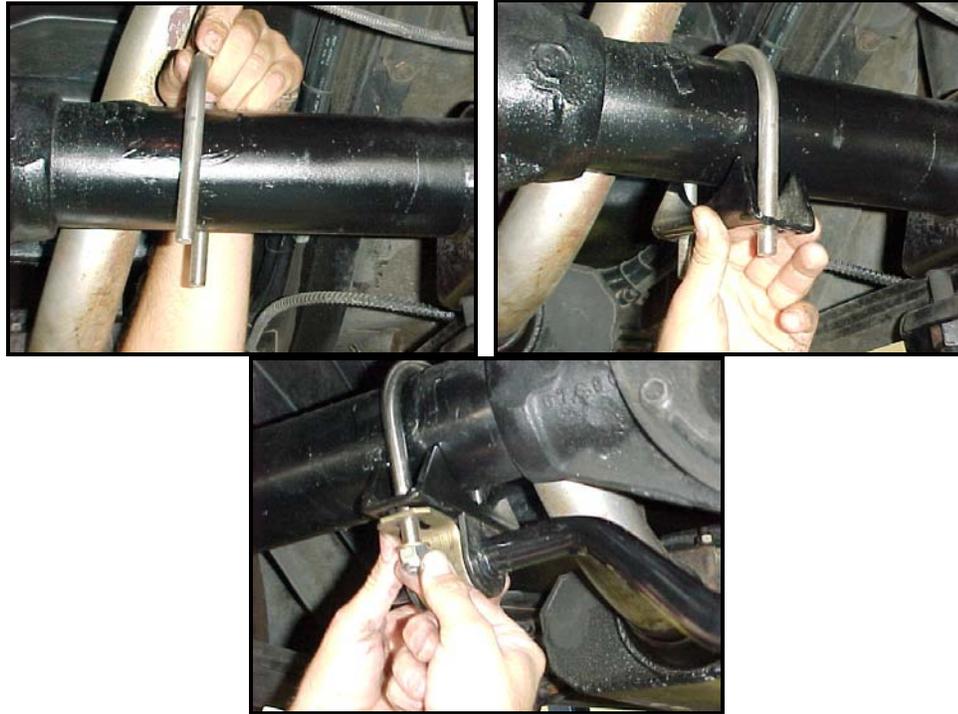
- 5) Use the grease pack to also apply a thick coat of grease to the insides of the sway bar bushings. Place the bushings over the bar with the split of the bushing facing towards the rear. Install the bushing retainer brackets over the bushings.



- 6) Attach the triangle brackets to the stud plates on the frame. Tighten the attaching hardware, as this is easier to do before installing the sway bar. With the brackets attached to the frame the bar can be lifted into place. Connect the end links to the brackets. The sway bar should be hanging loosely from the brackets at this point.



- 7) Place the u-bolts over the rear axle. Slide the axle brackets over the ends of the u-bolts with the curved side up against the axle. Rotate the bar into position and slide the bushing retainer brackets over the ends of the u-bolts. Start the nylock nuts onto the ends of the u-bolts to loosely hold the bar to the axle.



- 8) Use the tube of anti-seize included with the kit to apply a small amount to each set of threads on the u-bolt. **DO NOT** tighten the nylock nuts without using anti-seize! You could ruin the nuts or snap the u-bolt without it.



- 9) Make certain that the rear axle is at normal ride height to establish the proper orientation of the sway bar. Tighten the u-bolt hardware to mount the sway bar brackets to the axle. At this point you can now adjust the stiffness of the sway bar. Change the end link mount to the hole in the end of the bar to change the stiffness of the bar.



In the above picture the hole to the left is stiffer and the hole to the right is softer. Check that all attaching hardware is tight. Make certain the zerk fitting caps are covering the grease fittings. Lower the car from the jack stands and you're done!



**CHECK ALL HARDWARE** after the first five miles.

**IMPORTANT** Grease your sway bar bushings at least once a year (every 15,000 miles) to help prevent squeaking. Use a non-lithium based grease only to lube the bushings. Lithium based grease can wash out with water. If excessive squeaking occurs the bushings may be dry and need servicing or replacement.



SEE NEXT PAGE FOR PARTS LIST!

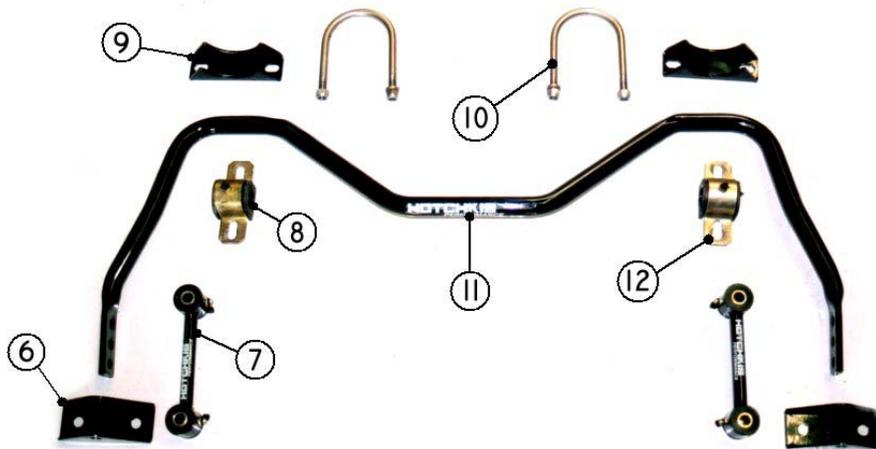
**69-69 Chrysler B-body Sport Sway Bar Kit, Parts List**  
**P/N 2255**



|    | Hotchkis P/N | Item Description  | Quantity Per Kit |
|----|--------------|---|------------------|
| 1  | 22810117     | 62-69 Chrysler B-body Front Sway Bar, Black Powder Coated | 1                |
| 2  | 5638.01      | 1-3/8" Greasable Sway Bar Bushing, Truck Style            | 2                |
| 3  | 23090074     | Greasable Sway Bar Bracket, Truck Style                   | 2                |
| 4  | 98118G       | End Link Set with Hardware (contains two end links)       | 1                |
| 5  | 23410117     | 62-69 Chrysler B-body Frame Bracket, Black Powder Coated  | 2                |
| 6  | T2221        | Rear Frame Bracket Kit (contains two triangle brackets)   | 1                |
| 7  | 25210037     | 6" Long "Dog Bone" End Link Kit (contains two end links)  | 1                |
| 8  | 5340G        | 1" Greasable Sway Bar Bushing, Car Style                  | 2                |
| 9  | T2211        | Rear Axle Sway Bar Mounting Kit (contains axle brackets)  | 1                |
| 10 | T1722        | 3" U-bolt Kit (contains two U-bolts & hardware)           | 1                |
| 11 | 22910117     | 62-69 Chrysler B-body Rear Sway Bar                       | 1                |
| 12 | 15.12.06.39  | Greasable Sway Bar Bracket, Car Style                     | 2                |

**Items Not Pictured**

|    |          |  |   |
|----|----------|--|---|
| 13 | 23990117 | Welded Stud Plate 2.87" Kit (contains two stud plates) | 1 |
| 14 | T1712    | Dog Bone hardware Kit                                  | 1 |
| 15 | -        | -  | 1 |
| 16 | n/a      | Instruction Set  | 1 |



Visit Hotchkis Performance on the web at [www.hotchkis.net](http://www.hotchkis.net) or  
 Call (562) 907-7757 to order!



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We want you to be completely satisfied with your Hotchkis Performance product. For products, presenting signs of shipping damage please contact the freight carrier immediately. All our products are guaranteed to be free from manufacturer's defects. If your order arrives with a manufacture defect, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. **If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy.** All returns however, should be made to your dealer, not to Hotchkis Performance directly.

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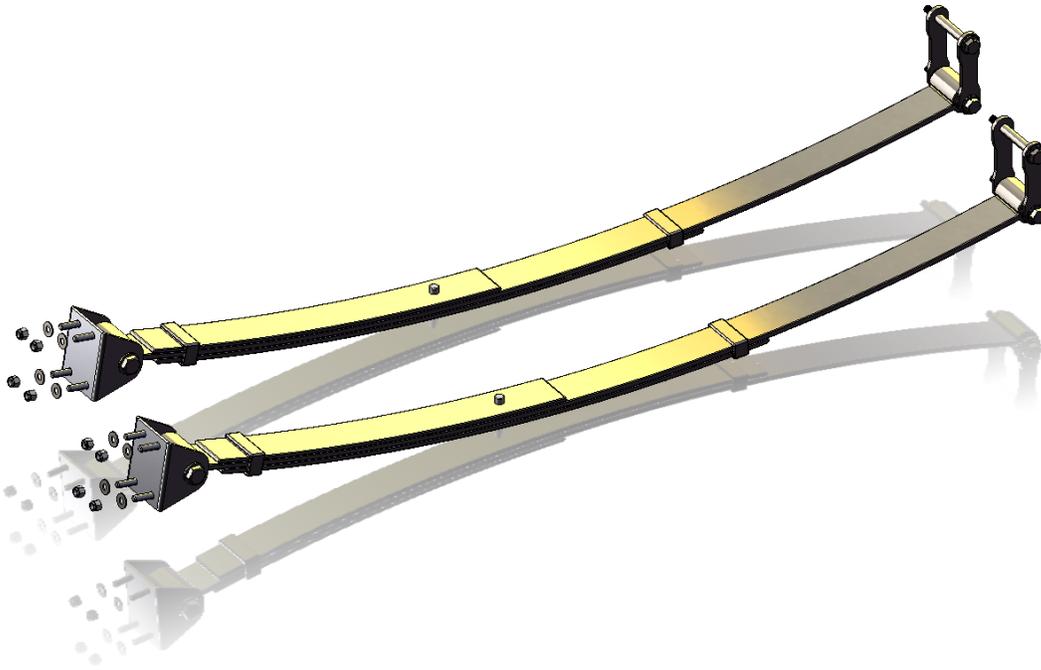
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## *Rear Leaf Spring Kit 24366, 24367 66-70 Chrysler B-body, 70-74 Chrysler E-Body*



*Thank you for your purchase from our new line of Mopar parts.  
Please call us at 877 - 4NO - ROLL if you have any questions  
regarding the service or installation of your Hotchkis Performance products.*

**IMPORTANT: PLEASE READ THE ENTIRE INSTRUCTION MANUAL BEFORE  
STARTING THIS INSTALLATION.**

**1. *Raise the Vehicle***

Raise the vehicle and safely secure it on jack stands.

**2. *Disconnect Rear Shock***

Disconnect the lower shock mount nut for each rear shock. You do not have to disconnect the upper mounts

**3. *Disconnect Stock U-Bolts***

Disconnect the stock U-bolts that secure the differential tubes to the leaf springs. It is very common for these u-bolts to be difficult to unfasten. In many cases it is necessary to cut the u-bolts with a cut-off wheel in order for removal. You Hotchkis kit comes with replacement u-bolts.

**4. Support the Pumpkin**

Slide a floor jack underneath the rear end to relieve the differential/wheel weight off of the leaf springs.

**5. Unfasten Rear Shackles**

Unfasten the rear leaf spring shackles, but do not disconnect.

**6. Disconnect the Front Leaf Mount**

The front leaf spring mount has 4 studs and mounts to the chassis. Undo the 4 nuts for each mount to detach it from the chassis. It helps if someone can help with holding up the leaf spring at this time.

**7. Remove Leaf Springs**

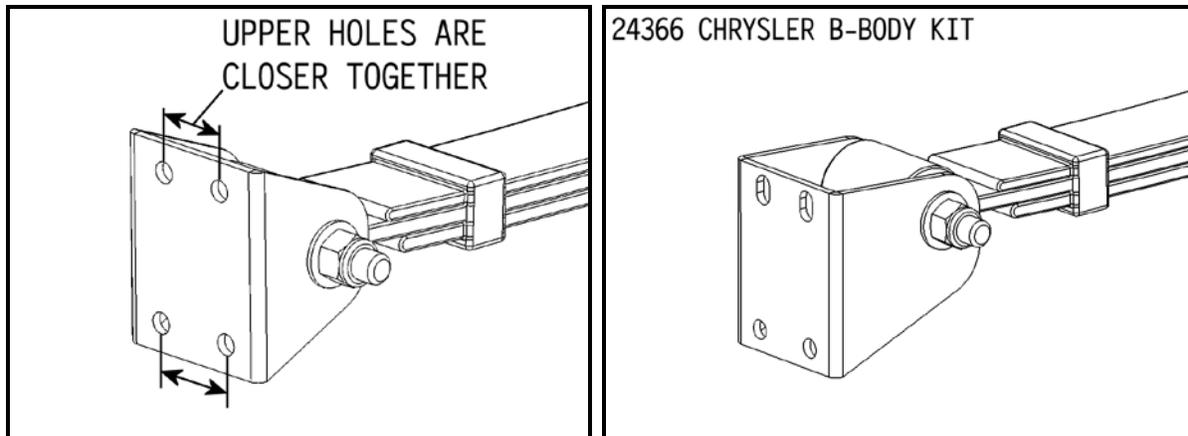
With the front mount disconnected, shift the leaf spring inboard to unhook the rear leaf eye from the shackle bolt. The leaf should be free from the car.

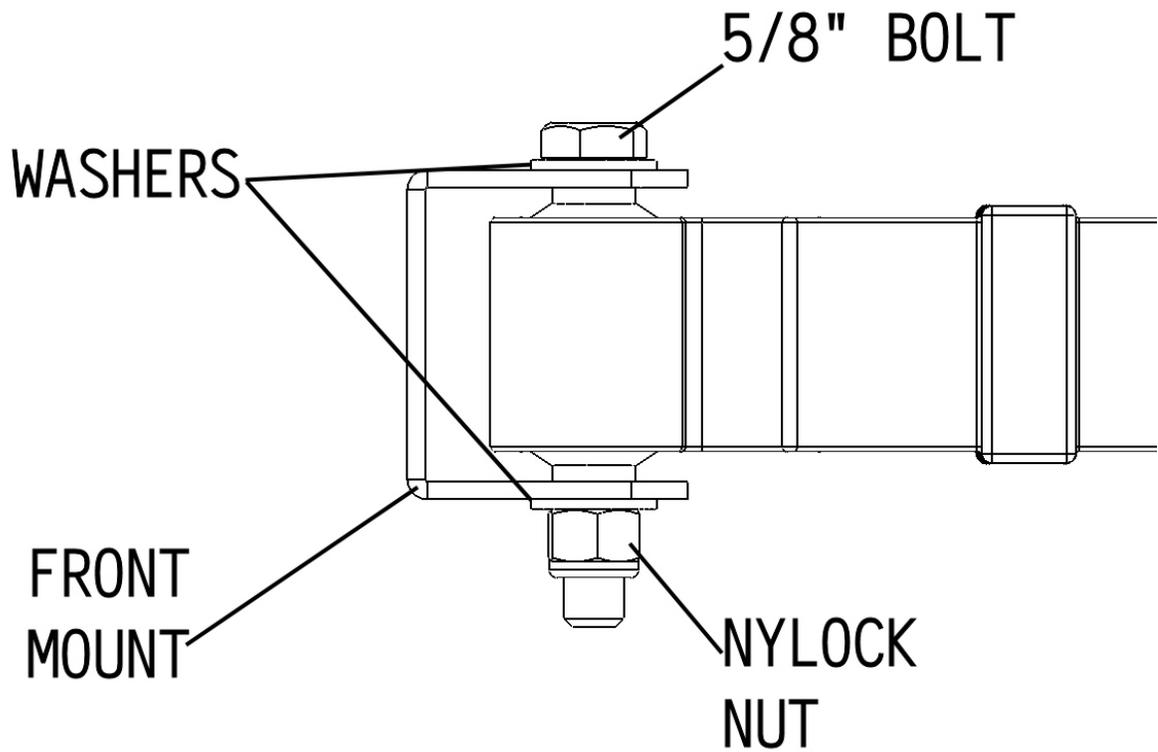
**8. Assemble the Hotchkis Leaf Springs**

Your new Hotchkis Leaf Spring kit comes with new front mounts, u-bolts, and hardware. If you would like to replace your old rusty shackles you can purchase our new shackle kit which includes new powdercoated shackles, hardware and polyurethane bushings.

Assemble the front mount and leaf spring together using the large 5/8" bolt and hardware. Snug the 5/8" nuts, but do not fully tighten yet.

See diagram below:

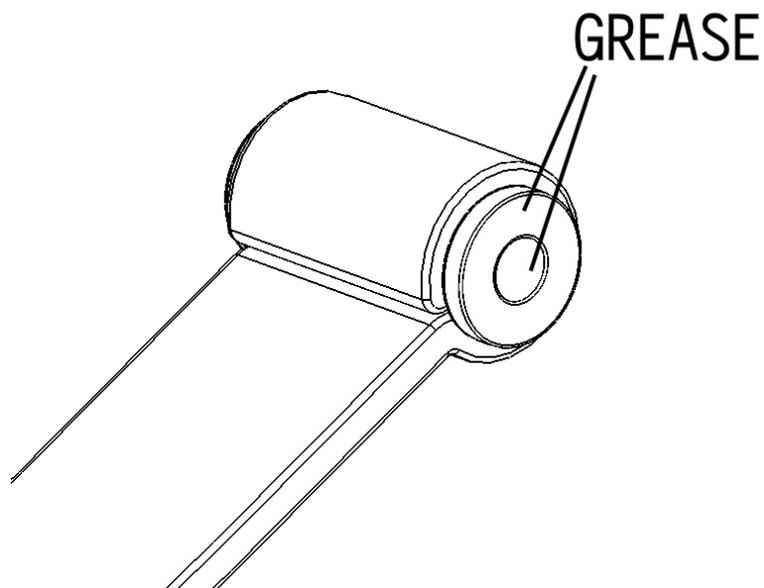




*Diagram shows Driver Side with the 5/8" bolt pointing outboard.*

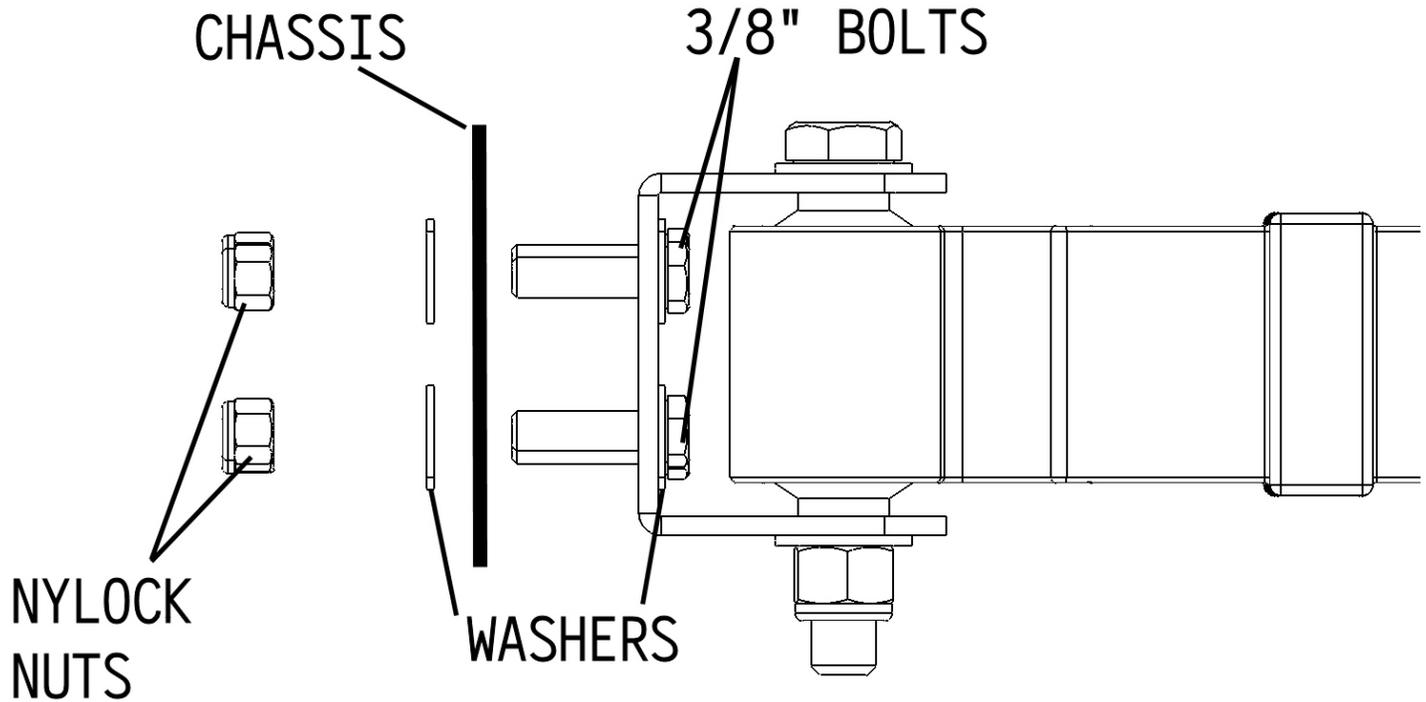
**9. Install Rear Bushings**

Your new Hotchkis Leaf Spring kit comes with new rear bushings. Insert the bushings into the rear eye of the leaf spring and grease the side surfaces and the inner hole with the supplied lube.



**10. Reinstall Hotchkis Leaf Springs**

Your new leaves are ready to be installed. Reinstall the leaf spring in the same manner as stock removal. Position the leaf spring in place by hooking the rear eye onto the shackle bolt and then mating the front bracket mount to the chassis. Insert the included 3/8" hardware to secure the front mount to the chassis. See diagram below:



**10. Tighten hardware**

Fully tighten all of the 3/8" hardware for the front mount and rear shackles bolts.

Lower the floor jack and align the leaf spring center bolt with the rear end mount. Reassemble the u-bolts in the same manner as removal. Tighten each u-bolt nut little at a time to ensure even load on each nut. A heavy duty 1/2" impact gun works well for this application.

Use your floor jack to jack up the rear end so that the rear of the vehicle just lifts off the rear jack stands. This allows the leaf springs to be loaded at normal ride height. You can now fully tighten the 5/8" hardware in the front mount.

Reattach the shocks to the lower mounts and you are finished. Lower the vehicle back onto the ground and enjoy your new leaf springs.

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- Installed in any vehicle that has been modified;
- Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or
- Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing, or racing-type activities or off-road use.

### Limitation of Warranty

This limited warranty is the entire and only warranty for the products and may not be modified or supplemented by any other person or company in any form. Any description of the products, by anyone, is for the sole purpose of identifying them and is not part of the basis of the bargain, and does not constitute a warranty that the products will conform to that description. The statements of any salesperson do not constitute part of this limited warranty and cannot be relied upon as a warranty.

**THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL**



**DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT.** Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

#### **Technical Information**

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- Is the product appropriate to your application?
- Did you carefully and thoroughly read the instructions provided along with the product?
- Do you have the original invoice or sales receipt?
- Is the return date within 36 months from the purchase date?
- Are you the original purchaser?
- Was the product properly installed by a qualified, licensed auto mechanic?
- Has the product been installed on the original vehicle on which it was installed at all times?
- Is the product unmodified and clean?
- Is the reason for return a legitimate product defect?

If the answer to all these questions is YES, please contact our Customer Service Department at (562) 907-7757. You will be given a Returned Goods Authorization Number (RGA) valid for 60 days. You will also be asked to ship the product prepaid to our facility. All shipments MUST be (i) prepaid, (ii) include the original invoice or sales receipt, (iii) show the RGA on the outside of the package and (iv) include your name, address, make and model of the vehicle, and a brief description of the claimed defect, including the circumstances under which the defect occurred. If the warranty claim is deemed valid then Hotchkis will estimate shipping costs to return the repaired or replacement part and contact you for payment. Hotchkis's Limited warranty requires that any repaired or replaced product will be returned to the sender excluding the cost of freight. Warranty related inquires should be sent to the following address:

**HOTCHKIS PERFORMANCE, LLC  
C/O CUSTOMER SERVICE  
8633 Sorensen Avenue  
SANTA FE SPRINGS, CA 90670**

Hotchkis Performance will not accept product returns without the RGA number, receipt and the information described above. C.O.D. or collect shipments will be refused. Once the returns are received at Hotchkis Performance, we will evaluate the products, verify the sales receipt, and investigate the warranty claim. Any repaired or replaced product will be returned to the sender.

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Please read the following key points before installing this kit.

- 1 – Before performing the subframe connector installation, the vehicle must be completely assembled with all body and component parts installed (e.g. fenders, hood, quarterpanels, trunk, full interior, engine, glass, etc.). Basically, the subframe connectors should be one of the last components installed on your vehicle. Reason being is you want the vehicle settled with all of it's own final weight. The car's body is always in constant tension, with forces pushing or pulling within the chassis & body. You want to make sure these forces don't change after you install the subframe connectors. For example, if you installed subframe connectors before installing the engine and body panels this may result in having misaligned fenders, door panels and/or hood later on. The car must be in it's final state before the subframe connectors are installed.
- 2 – The subframe connectors must be installed on an alignment rack or floor ramps (all 4 wheels). The vehicle must be sitting on it's wheels at ride height in order to install the subframe connectors. Do not use a two-post lift, as this will load the chassis/body in the wrong points causing the chassis to tweak.
- 3 – If you your vehicle is equipped with torque boxes, please pay attention to step 3b of this manual. You may be required to purchase extra hardware in this case.

**4010**  
***Subframe Connectors 66-70 Chrysler B-Body***  
**4011S & 4011L**  
***Subframe Connectors 70-74 Chrysler E-Body***



**Thank you for your purchase from our new line of Chrysler parts.  
Please call us at (877) 4NO - ROLL if you have any questions  
regarding the service or installation of your Hotchkis products.**

Subframe Connectors:

Your new subframe connectors will increase the overall rigidity of your chassis and improve handling and response. These engineered components connect the rear frame rails with the front subframe to simulate a complete full frame chassis.



Notes:

The subframe connector is essentially a Weld-In component, effectively connecting the front subframe and rear frame rails.

Before You Start:

The installation of these subframe connectors will require you to grind and weld. It is recommended that a trained professional install this product. Always wear eye protection when grinding or welding. Please read the entire manual before starting. All images will depict the driver side installation.

### 1. Raise Vehicle

It is best to install the subframe connectors at ride height. To do this properly, please use a 4-Post lift or alignment rack. Disconnect the negative battery cable.

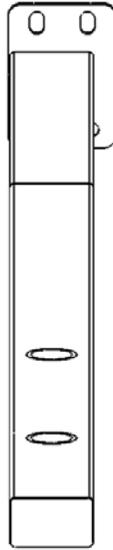


### 2. Prepare Subframe Pieces for Welding

Subframe pieces come fully powder coated so you will want to first prep them for the welding process. Sand the ends that do not have the bolt connectors (front side).



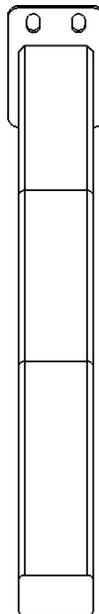
**B-Body Connector**



**DRIVER SIDE**

**E-Body Connector**

E-BODY CONNECTORS ARE SYMMETRICAL



### 3. Remove Nuts from Frame

Temporarily support the rear subframe with jacks to relieve the load on the leaf springs. Do not jack up the car too much or else the weight of the rear end and wheels will hang in the air and cause the front mount to pull downward. Remove the 4 nuts on the front leaf spring mounts.



### 3b. Torque Box Vehicles ONLY!

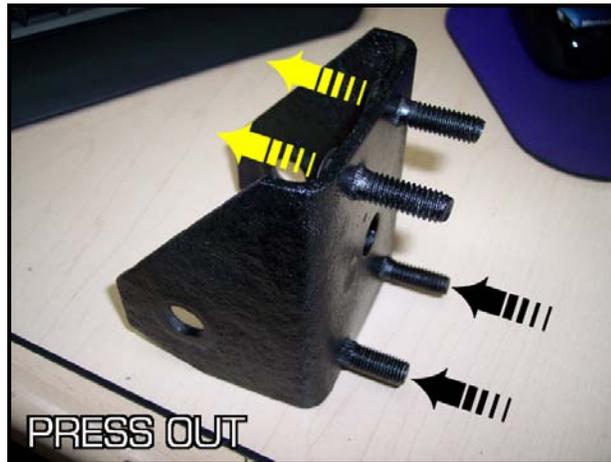
Some vehicles have torque boxes which may cover the path of the subframe connectors. *If your car does not have torque boxes, then you can proceed to step 4.* You will need to cut the forward section of the torque box so the subframe connector can mount flush to the floor pan.



In addition, you will notice it will be extremely difficult to access the leaf spring mount nuts once the subframe connector is in place. To alleviate this problem, you will need to weld bolts onto the subframe connectors so you can fasten everything from the rearward side of the mount. Procedure to follow...

Steps:

- Remove the front leaf spring mounts from each leaf spring
- Remove the 4 studs that are pressed in the mount (If you are installing Hotchkis leaf springs, then you will be able to use the Hotchkis mount instead)



- Mock up the leaf spring bracket and the subframe connectors to get proper bolt locations. This will require the following from your local hardware store:

- Grade 8 - 3/8" - 24 x 1.5 hex bolts (qty.8)
- Grade 8 - 3/8" SAE washers (qty. 16)
- Grade 8 - 3/8" - 24 nylock nuts (qty.8)



*Mock-up shown with Hotchkis leaf spring mount*

- FYI--The aforementioned hardware is included with the Hotchkis leaf spring kit.

- Weld the bolt and washer to the subframe connectors. Disassemble the mock-up.



- Reinstall the leaf spring mount and continue with the subframe connector installation.

#### 4. Connect Subframe

Slide the rear of the subframe connector onto the 4 bolts that you just removed the nuts from. Once subframe is on, replace the nuts and snugly tighten, but not fully tighten.



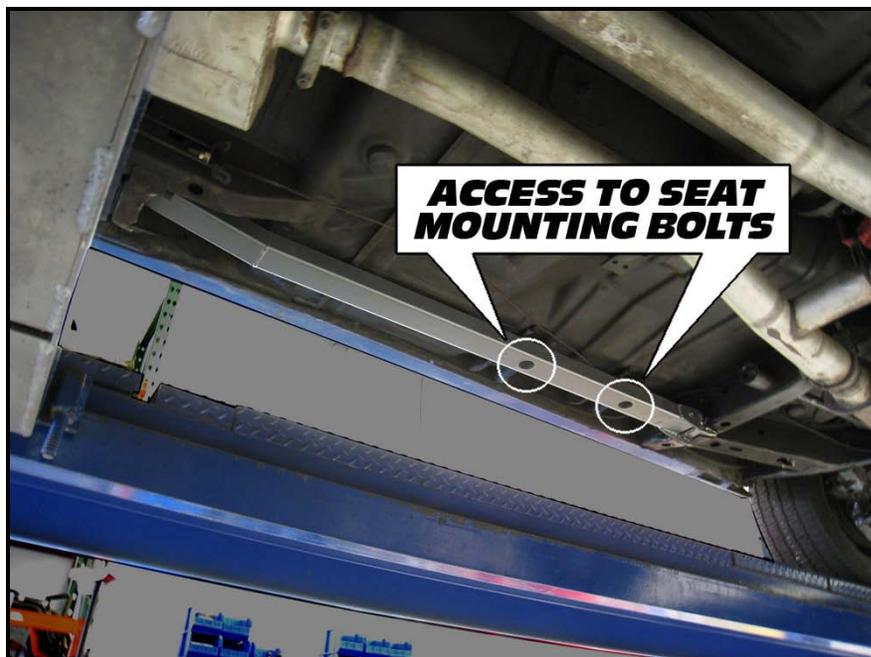
### 5. Position the Subframe

Using a screw jack to hold the subframe up and in place, mark the area where you will be attaching the front mounting bracket and then remove both the mounting bracket and subframe.



### 6. Seat Mounting Bolts

Be sure the seat mounting bolts line up with the seat mounting bolts access holes that are on the subframe before moving on.



### 7. Prepare Frame for Welding

After you remove the mounting bracket and subframe connector, sand down the area of the frame where you will be welding.



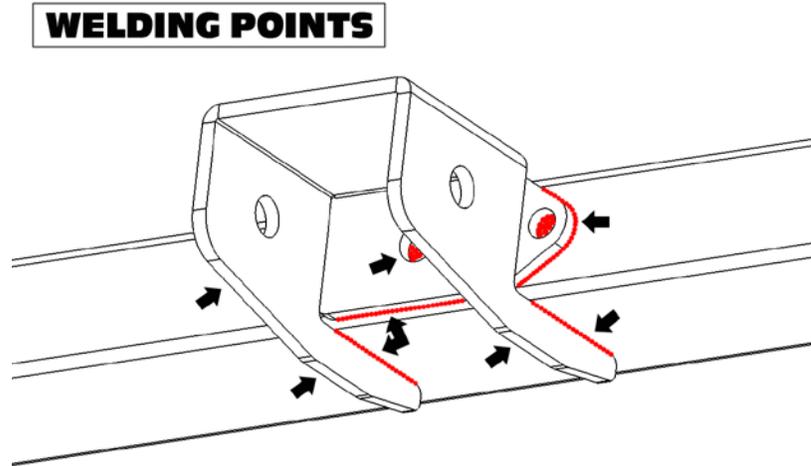
### 8. Spot Weld Mounting Bracket

Install the subframe connector again with the mounting bracket resting in place on top. Be sure to use the screw jack to hold the subframe in place. Spot weld the mounting bracket and then once again, remove the subframe connector.

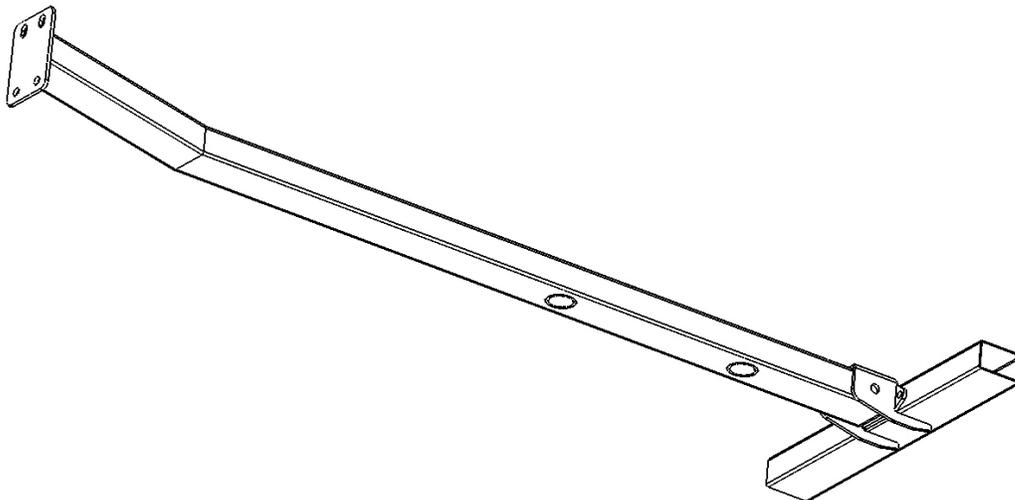


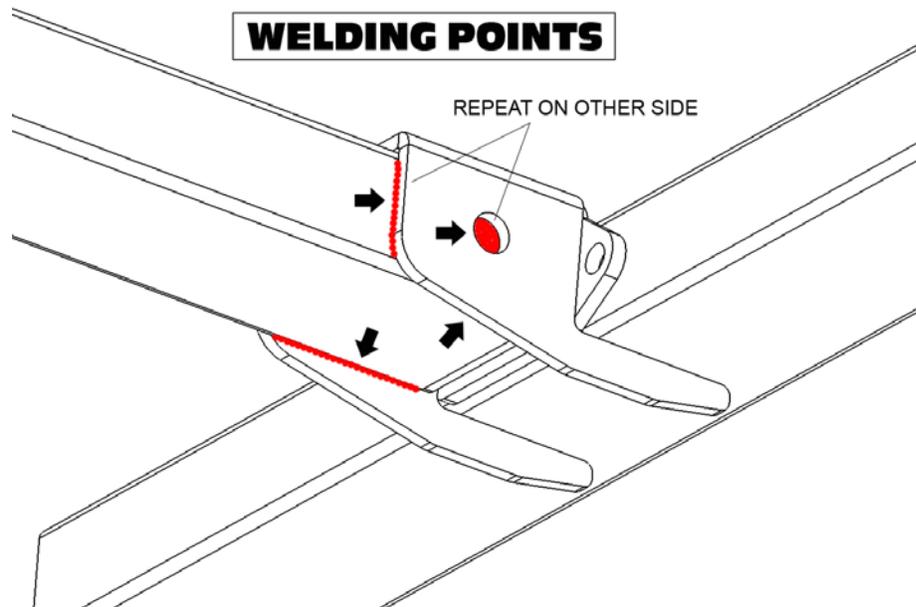
**9. Clean Surface / Weld Mounting Bracket / Install Subframe / Weld Subframe**

Before welding, be sure that all of the surfaces that you will be welding is clean. Weld the front mounting bracket to the frame.



When you're done welding the front mounting bracket, reinstall the subframe connector. Fully tighten the 4 rear mount nuts. You may now remove the jacks supporting the rear subframe. The full weight of the car should be on all four tires from now on. Use the screw jack once again to hold the subframe in place if need be. Now weld the subframe connector to the front mounting bracket.





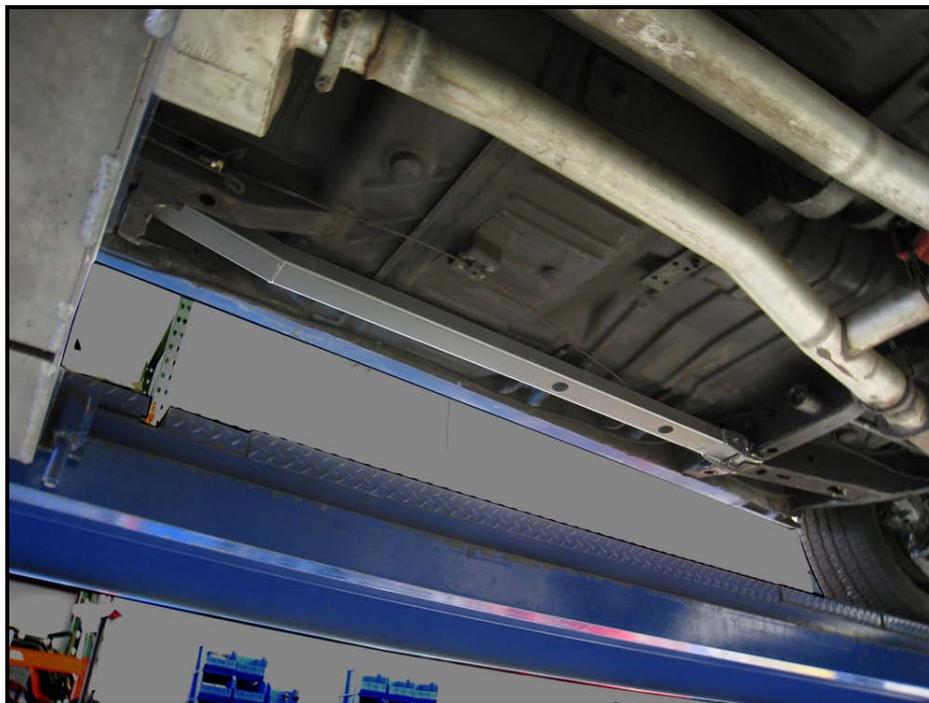
**10. Paint**

After the metal has cooled down, paint all exposed raw surfaces with a rust resistant paint.



**11. Repeat & Finished**

Repeat steps 1-10 to install the passenger side subframe and you're all set.





## Hotchkis Performance LLC Return Policy & Limited Warranty

Effective December 1, 2010 all Hotchkis products must be registered to qualify for warranty at [www.hotchkis.net](http://www.hotchkis.net) or via the mail-in warranty card, included with the product, within 30 days of the original purchase date.

**IMPORTANT:** This warranty supersedes all other warranties included with this product.

### Return Policy

We want you to be completely satisfied with your Hotchkis Performance product. For products, presenting signs of shipping damage please contact the freight carrier immediately. All our products are guaranteed to be free from manufacturer's defects. If your order arrives with a manufacture defect, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. **If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy. All returns however, should be made to your dealer, not to Hotchkis Performance directly.**

### Limited Warranty

Hotchkis Performance offers a Limited Warranty against defects in materials and workmanship for the term of 36 months (3 years) from the date of purchase of this product. This Warranty only applies to the original retail purchaser who retains ownership of the vehicle on which the product was originally installed. If the product is determined to be defective, Hotchkis Performance will repair, replace or refund the purchase price of the defective product at Hotchkis Performance's sole discretion, which shall fully satisfy and discharge any and all warranty claims. Any repaired or replaced product will be returned to the sender excluding the cost of freight. **Products**

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### **Exclusions from Warranty**

Items offered but not manufactured by Hotchkis Performance are warranted according to the manufacturer's terms and are not covered by this limited warranty. Hotchkis Performance shall not be responsible for any labor, removal, installation, re-installation or maintenance costs. This warranty does not cover the cosmetic finish or plating of any product or any normal wear and tear to any product including, but not limited to bushings, brackets, end-links, hardware, steering components, shocks or springs. In addition, this warranty does not apply to any products that have been:

- **Improperly installed or installed by someone other than a qualified, licensed auto mechanic experienced in the installation and removal of suspension products;**
- **Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;**
- **Installed in any vehicle that has been modified;**
- **Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or**
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