



**The following instructions are intended for professional installers and are guidelines only. Speedtech Performance assumes NO responsibility for the installation of any of its products. All products are intended for off road use only and must be installed by qualified professionals only**

Thank you for purchasing your new Speedtech Track Time Package. Installing this product will require the unbolting and removal of your front suspension. Take all necessary precautions whenever jacking up your vehicle and use safe and sturdy jack stands to support the vehicle whenever it is off the ground. Be sure to take all other safety precautions required to do the job correctly.

**Before you get started** please note that there will be some modification to your subframe. This may be a convenient time to remove the entire frame. Doing so will allow easier access to make the modifications, and then you can clean/sandblast and have it painted or powder coated. If you do not already have them, Speedtech Solid Body Mounts, part #220508, are a great compliment to this package.

Also note that these instructions are limited to the installation processes that are not contained in the instructions for each individual part. See the instructions found with the individual parts for those not listed here.

### **Torque Specs**

- **Upper shock mount 40 ftlbs**
- **Lower T bar shock mounting nuts 40 ftlbs**
  
- **Lower control arm nuts 40 ftlbs**
- **Lower ball joint 50 ftlbs then to the next slot for the cotter pin**
  
- **Upper control arm nuts 40 ftlbs**
- **Upper ball joint nut 35 ftlbs then to the next slot for the cotter pin**
  
- **Steering box bolts 50 ft lbs**
- **Pitman arm nut 90 ftlbs with lock washer**
  
- **½” Tie rod end nuts 35 ftlbs then to the next slot for the cotter pin**

## Installation Hardware (additional to the hardware found with individual parts)



- (4) Upper Control Arm bolts  $\frac{1}{2}$  x  $2 \frac{1}{4}$  NF
- (4) Upper Control Arm washers  $\frac{1}{2}$
- (4) Upper Control Arm Nylock nuts  $\frac{1}{2}$
- (3) Steering Box Bolts  $\frac{7}{16}$  x  $4 \frac{1}{2}$  NC
- (3) Steering Box Washers  $\frac{7}{16}$
- (4) Sway Bar Pivot mount bolts  $\frac{3}{8}$  x  $1 \frac{1}{4}$  NC
- (4) Sway Bar Pivot mount washers
- (4) Idler arm mounting bracket  $\frac{3}{8}$  x  $1 \frac{1}{4}$  NC
- (4) Idler arm mounting bracket  $\frac{3}{8}$  Nylock Nuts
- (4) Idler arm mounting bracket  $\frac{3}{8}$  Washers

1. Before any removal of the old sub frame begins, disconnect and remove the battery, but you knew that.



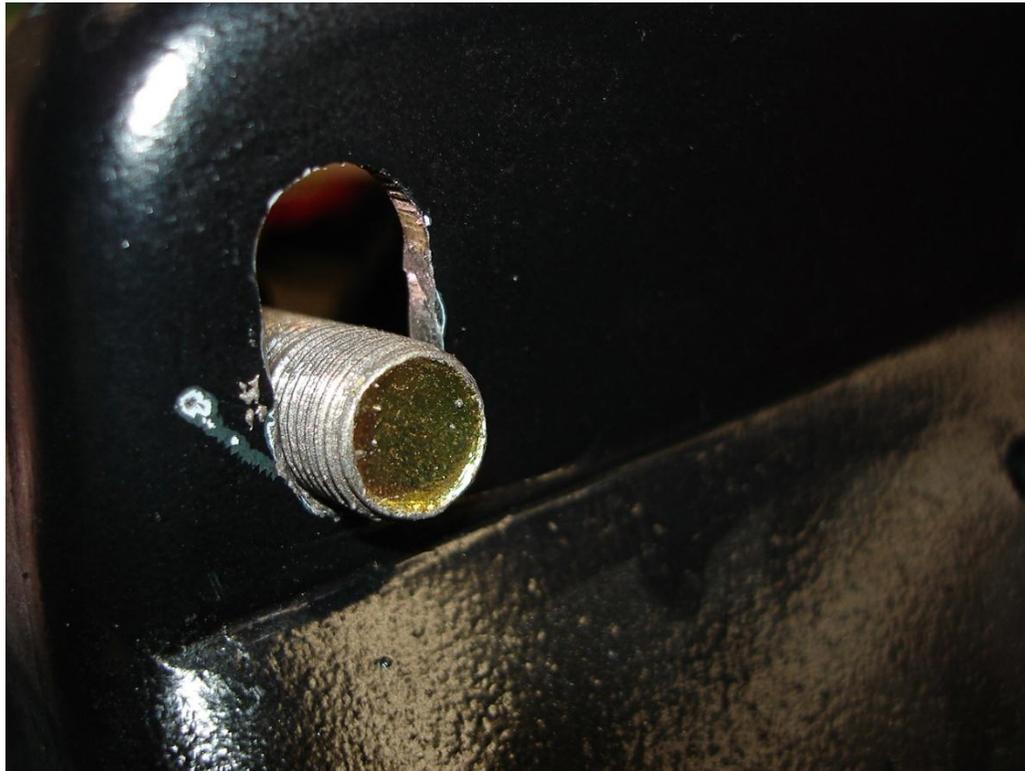
2. The vehicle should be on a level surface before you start. Jack up and properly support the vehicle's frame.

3. Remove the front wheels and all front suspension components, including brakes, spindles, shocks, springs, upper and lower control arms, steering linkage, steering box, and sway bar.

4. Clean grease and flammable liquids and grind off rust and paint around upper shock mounts.

5. You will need to modify the mounting holes for the upper control arms to achieve better camber gain and lower the roll center. First remove the control arm mounting studs. Next, use a die grinder and lengthen the holes downward approximately  $\frac{3}{4}$ " as seen in the photo below.

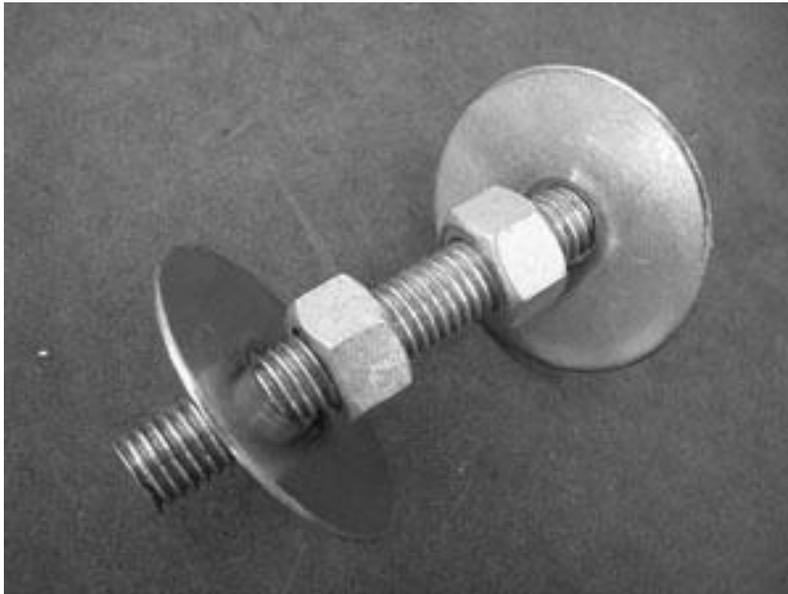
\*\* Note: The stainless cross shaft on the upper control arms should not make contact with the angled part of the cross member where it meets the vertical control arm mount. Because of differences in factory tolerances, to be sure to have proper fitment grind a little less than  $\frac{3}{4}$ " and test fit the control arms. Continue grinding as necessary to lower the arm mount up to  $\frac{3}{4}$ " without contacting the cross member. Both slots should be the same length.



6. Continue the frame modifications according to the instructions for installing the Chicane coilover brackets.

7. Clean and/or sandblast and then coat the frame with your favorite products or powder coat to prevent rust from forming.

8. Install the coilovers, lower control arms, the steering arms on the spindles, the spindles on the lower control arms, upper control arms and brakes according to their individual instructions. To properly spread the lower control arm mount tabs, create a simple tool as shown on page 6.



Spread the mount apart as needed by tightening the nuts against the frame.

9. Install the new steering box in the frame and the pitman arm on the box.



10. Install the idler arm relocation bracket on the frame and the idler arm on the bracket.

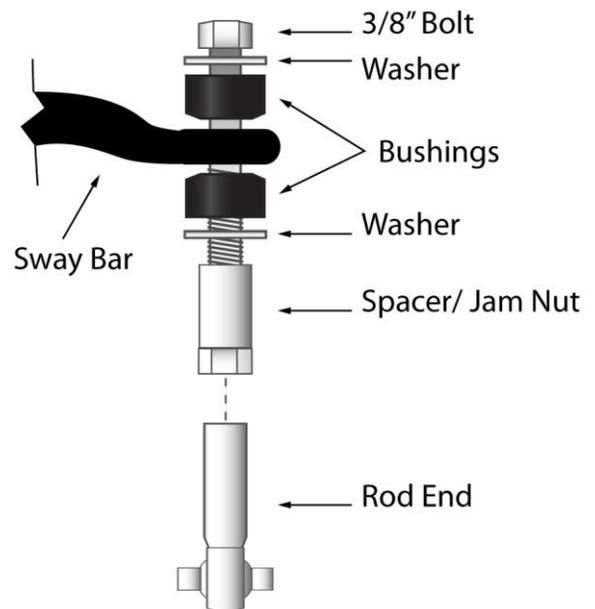




11. Assemble the inner tie rod ends, adjuster sleeves and outer tie rod ends.

**\*\*Note:** There are two different part #s for the inner tie rod ends. Part # ES442L is for the driver side and part # ES443L is for the passenger side. Use Antiseize on all threads. Assemble tie rod ends to the centerlink, and then install the assembly in the chassis.

12. Install new sway bar end links according to diagram at right.



13. Do not drive the vehicle, have it towed to a competent professional alignment shop to have an alignment performed.

**Note: Use these settings, not alignment shop pre-programmed specs!**

**These are only suggestions and may need additional changes to achieve the optimum settings for your driving style or situation.**

### Daily Driving, Street Performance Specifications

Driver Side	Passenger Side
4 Degrees positive Caster	4 ½ Degrees positive Caster
0 to ½ Degree negative Camber	0 to ½ Degree negative Camber
3/ 32 Total Toe-in	3/ 32 Total Toe-in

### Aggressive Track Alignment Specifications

Driver Side	Passenger Side
5 ½ Degrees positive Caster	6 Degrees positive Caster
½ to 1 Degree negative Camber	½ to 1 Degree negative Camber
3/ 32 Total Toe-in	3/ 32 Total Toe-in

### Original Alignment Specifications

\*\*For reference purposes only. **Do Not** use these specs.

Driver Side	Passenger Side
½ Degree positive Caster	½ Degree positive Caster
¼ to ½ Degree negative Camber	¼ to ½ Degree negative Camber
1/8 Total Toe-in	1/8 Total Toe-in

## Terms and Conditions of Sale

1. Effective January, 2008, supersedes all previous policy statements. Policies are subject to change without notice. Speed tech performance Ltd. is not responsible for printing errors.
2. Speed Tech Performance Ltd. does not endorse, nor recommend modification of vehicles for use on public highways, since warranty or government regulations may be violated. As an express condition of sale of any performance part, the buyer acknowledges and agrees to use the performance parts for the modification of vehicles in sanctioned OFF-ROAD competitive events and show purposes only. Customers should exercise their discretion on matters with regards to the purchase and installation of these products.
3. Speed Tech Performance Ltd. does not ensure the legal use of these products. We do not guarantee the fitment of these products for anything other than their intended application nor do we assume any responsibilities whatsoever for the misuse or losses incurred by the use of any of these components. While every effort is made to provide technical information and assistance, we have no control over owner installation, modification, and unusual stress that performance parts are subject to.
4. The customer acknowledges that Speed Tech Performance Ltd. and its employees are not responsible for any mechanical failures due to the use of parts sold, supplied or installed not for their intended application. Speed Tech Performance Ltd will not be held liable for any damages which are incurred directly or indirectly on the vehicles or operators or passengers of the vehicle
5. Please consult your sales agent and/or technician prior to purchase of any of Speed Tech Performance Ltd. Products to ensure proper fit. The buyer assumes all responsibilities for determining the suitability of the product. All aftermarket products should always be installed by professionals only.

### Warranty Claim:

1. Speed tech Performance Ltd. Warrants its products against materials and workmanship failure for the term of 12 months (1 year) from the date of purchase and only up to the amount paid with proof of purchase.
2. Seller's liability shall as limited to repairing or replacing, at its option, any defective product which is returned, freight prepaid to Seller, according to the Merchandise Return Procedure set forth in Section 3 below. Buyer shall bear all responsibility for shipping charges and risk of loss or damage during transit to Seller. Products which have been subjected to abuse, misuse, alteration, neglect or unauthorized repair or installation, as determined solely by Seller, are not covered by this warranty. Any alterations, addition, improvements or attachments to the product(s) not authorized in writing by the Seller shall be deemed to be a waiver of this warranty by Buyer and shall render this warranty null and void. Seller shall return repaired or replaced product(s) to Buyer, at its expense via regular ground service in Canada. Shipping charges by all other methods and to all other destinations shall be borne by Buyer.
3. Merchandise return procedure
  - A. If you purchased your Speed tech performance Ltd product from us or from an authorized dealer, you are covered by the terms of this policy. All claims however, must be submitted directly to Speed tech performance Ltd.
  - B. Call the customer service representative at 1-888-467-1625.
  - C. Provide the invoice number, date of purchase and reason for return
  - D. 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 part has to be in its original packaging materials and be in a resellable condition. For parts presenting signs of use, only warranty claims will be accepted.
  - E. Ship to seller, freight pre-paid and insured for replacement cost in original packaging.
  - F. Replacement or repair decision will be made when merchandise is received by seller. No advance replacement is available.

### How to File a Warranty Claim:

The answer to ALL the following questions should be YES before contacting our Customer Service Department.

Is the part appropriate to your application?

Did you carefully and thoroughly read the instructions provided along with the part?

Do you have the proof of purchase?

Are you the original purchaser?

Is the part unmodified and clean?

Is the return date within 3 months from the purchase date?

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 1-888-467-1625. You will be given a Returned Goods Authorization Number (RGA) valid for 30 days. You will also be asked to ship the part prepaid to our facility. All shipments MUST be prepaid, include the original invoice and show the RGA on the outside of the package, otherwise it will be refused. Please include a brief explanation letter in order to expedite the warranty analysis process.

### What doesn't this Warranty Cover?

The costs not covered by this warranty include but are not limited to:

- Removal, installation, shipment and insurance costs.
- Improper installation or maintenance
- Misuse or abuse, negligence
- Damage to related components
- Normal wear and tear.
- Costs incurred due to down time of vehicle
- Alterations on the original design or unauthorized repairs.

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