



PERFORMANCE USA LLC

Nov 25, 2013

Lower Control Arms



Installation Instructions

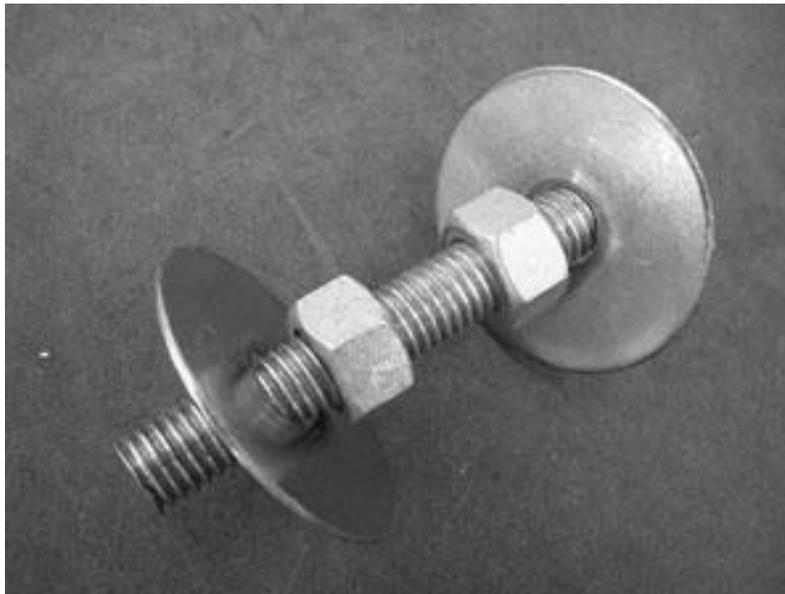
The following instructions are intended for professional installers and are guidelines only. Speedtech Performance assumes NO responsibility for the installation of any of its products. All products are intended for off road use only and must be installed by qualified professionals only

Thank you for purchasing your new Speedtech lower control arms. 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.

Note: These control arms WILL NOT work with drum brakes.

The vehicle should be on a level surface before you start.

1. In a few short hours you can update your classic car with new Speedtech Performance Tubular Lower Control Arms. We recommend you inspect all of your car's suspension prior to installation of our parts, such as tie rods, ball joints and other suspension parts which may be worn and could cause adverse effects. Replace parts as necessary.
2. Jack up and properly support the vehicle's frame. Remove the front wheels. For cars with drop off style rotors, reinstall one lug nut if needed to prevent the rotor from falling off.
3. Place the jack under the outer end of one of the lower control arms. Gently raise the jack to compress the spring slightly and relieve the pressure on the ball joint. Remove the shock and sway bar links. Attach a coil spring compressor to the coil and compress the spring enough to remove spring pressure.
4. Removing the spindle from the upper control arm is not necessary, however doing so may allow you more work room. To do this, remove the cotter pin and loosen the castle nut until it has approximately 5 threads of contact. Use a pickle fork if necessary to separate the spindle from the ball joint. Remove the castle nut. Watch carefully for any tension on the spring that may pop the assembly apart as the nut is removed.
5. Repeat this process for the lower ball joint. Watch carefully for any tension on the spring that may pop the assembly apart as the nut is removed. Remove the coil spring and place aside.
6. Remove the stover nuts and bolts from the mounts that hold the control arm in the frame and remove the control arm from the frame. Clean, remove rust and repaint the mounts as needed.
7. Install the new lower control arm in the reverse order. Because of bushing variations and over tightening as bushings have been replaced in the past, you may encounter an overly tight fit. If so, you will need to spread the tabs on the control arm mounts. The best way to do this is to assemble a 1/2 X 4" length of all thread with 2 nuts and washers inside the mount. Gently tighten the nuts so that they spread the mount tabs apart. Test fit the arm periodically, as the mounts may spring back slightly during this process.



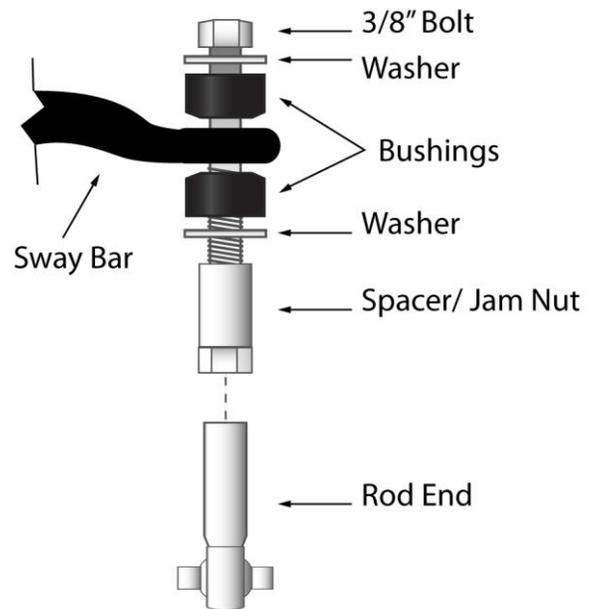
To properly spread the control arm mount tabs, create a simple tool as shown above.



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

8. Once the desired fit is achieved, lube the bolts provided in the kit on both the threads and shank with anti-seize. Insert bolts and tighten the nuts enough so that all is secure. Do not fully torque them to specs at this point.
9. Support the assembly by placing the floor jack under the outer portion of the lower control arm. Reinstall the spring, spindle, and shock. Torque the lower ball joint castle nut to 80 ft/lbs. Torque the upper ball joint castle nut to 40 ft/lbs. Reinstall any steering linkage that was removed.

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



10. If using factory disc brakes you may need to clearance the dust shield slightly. With the assembly supported by the floor jack, turn the steering wheel lock to lock and have a partner check for any interference. Trim dust shield as necessary.

11. Grease control arm bushings and new ball joint. Grease other suspension components as needed. We recommend silicon based grease, however any high quality grease will do. Reinstall wheel, torque to recommended specs.

12. Repeat process for other side of car.

13. Once all parts are reinstalled, push down on the bumper a few times to settle the suspension to normal ride height. With the car supported on the tires, torque the lower control arm bolts to 50 ft/lbs.

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

Note: Use alignment specifications on next page, not alignment shop pre-programmed factory specs!

Note: 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

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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.

All warranties implied by law are limited in duration of this warranty. You have specific rights that may vary from state to state or Province to Province. By purchasing any of the products that are manufactured by speed tech performance you agree to any and all of the above terms and conditions. **Copyright © Speedtech Performance USA LLC**

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