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INSTALLATION INSTRUCTIONS

GM Upper Control Arms QA1 P/N 52322, 52422, 52365, 52465, 52317, 52417, 52318, 52418

READ ALL INSTRUCTIONS CAREFULLY AND THOROUGHLY PRIOR TO STARTING INSTALLATION. PRODUCTS THAT HAVE BEEN INSTALLED ARE NOT ELIGIBLE FOR RETURN. USE THE PROPER JACKING LOCATIONS. DEATH OR SERIOUS INJURY CAN RESULT IF INSTRUCTIONS ARE NOT CORRECTLY FOLLOWED. A GOOD CHASSIS MANUAL, AVAILABLE AT YOUR LOCAL PARTS STORE, MAY ALSO AID IN YOUR INSTALLATION.

• DISCLAIMER / WARRANTY •

QA1 WARRANTS THAT THE PRODUCTS WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM DATE OF SALE TO THE ORIGINAL PURCHASER. QA1 MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. QA1 SHALL HAVE NO OBLIGATION UNDER THE FOREGOING WARRANTY WHERE THE DEFECT IS THE RESULT OF IMPROPER OR ABNORMAL USE, YOUR NEGLIGENCE, VEHICLE ACCIDENT, IMPROPER OR INCORRECT INSTALLATION OR MAINTENANCE, NOR WHEN THE PRODUCT HAS BEEN REPAIRED OR ALTERED IN ANY WAY. QA1'S LIABILITY IN THE CASE OF DEFECTIVE PRODUCTS SUBJECT TO THE FOREGOING WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT QA1'S OPTION, OF THE DEFECTIVE PRODUCTS.

THE USER UNDERSTANDS AND RECOGNIZES THAT RACING PARTS, SPECIALIZED STREET ROD EQUIPMENT, AND ALL PARTS AND SERVICES SOLD BY QA1 ARE EXPOSED TO MANY AND VARIED CONDITIONS DUE TO THE MANNER IN WHICH THEY ARE INSTALLED AND USED. QA1 SHALL BEAR NO LIABILITY FOR ANY LOSS, DAMAGE OR INJURY, EITHER TO A PERSON OR TO PROPERTY, RESULTING FROM THE INSTALLATION, DIRECT OR INDIRECT USE OF ANY QA1 PRODUCTS OR INABILITY BY THE BUYER TO DETERMINE PROPER USE OR APPLICATION OF QA1 PRODUCTS. WITH THE EXCEPTION OF THE LIMITED LIABILITY WARRANTY SET FORTH ABOVE, QA1 SHALL NOT BE LIABLE FOR ANY CLAIMS, DEMANDS, INJURIES, DAMAGES, ACTIONS, OR CAUSES OF ACTION WHATSOEVER TO BUYER ARISING OUT OF OR CONNECTED WITH THE USE OF ANY QA1 PRODUCTS. MOTORSPORTS ARE DANGEROUS; AS SUCH, NO WARRANTY OR REPRESENTATION IS MADE AS TO THE PRODUCT'S ABILITY TO PROTECT THE USER FROM INJURY OR DEATH. THE USER ASSUMES THAT RISK!

TOOLS AND SUPPLIES REQUIRED

• Floor Jack

Jack Stands

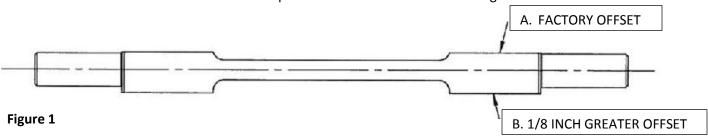
Wrench Set

• Ratchet & Socket Set

• Ball Joint Separator

PRE-INSTALLATION NOTES:

- 1. QA1 does not recommend driving the vehicle until it has been properly aligned due to major changes in suspension geometry that will affect the handling characteristics of the vehicle. A front end alignment should be performed by a qualified alignment shop after any changes to the suspension system.
- 2. QA1 upper control arms have eccentric cross-shafts. Be sure the upper control arms both have the cross shafts facing the same direction. See **Figure 1**.
 - **A.** This side of the cross-shaft with the shallow cutout will allow for a factory alignment.
 - B. This side of the cross-shaft with the deep cutout will allow for additional negative camber.



DISASSEMBLY

- 1. Raise and support the vehicle by the frame with jack stands on a stable surface and remove the front wheels.
- 2. Support the lower control arm with a jack to take weight off the droop stop. See Figure 2.
- 3. Remove the cotter pin and loosen the upper ball joint nut. Do not remove the nut at this time.
- 4. Separate the upper ball joint from the spindle using a ball joint separator.
- 5. Remove the ball joint nut. Support the spindle and brakes making sure they are not hanging by the brake hose as this may cause damage to the brake hose.
- 6. Note the position of the shims on the cross shaft. Remove the nuts on the cross-shaft and remove the upper control arm from the car. See Figure 3. NOTE: The bolts retaining the cross-shaft are knurled and should be pressed or knocked out of the mount if needed. Do not turn the bolts to remove.

INSTALLATION

- 1. Slide the QA1 upper control arm over the mounting bolts making sure to have the cross-shaft facing the same direction for both control arms.
- 2. Re-insert the shim stacks in the same location on the cross-shaft that they were removed from and tighten the nuts to the factory specification. If the mounting studs have been removed, it may be necessary to hold the head of the bolt to tighten the cross-shaft nuts. **Do not turn the bolt to tighten the nuts or the knurling will strip.**
- 3. Connect the upper ball joint to the spindle and tighten the ball joint castle nut to the factory specification. Install a new cotter pin.
- 4. Remove the jack from the lower control arm and reinstall the wheels and tires.
- 5. A front end alignment is required and should be proformed by a quailified alignment shop.

Caution: QA1 does not recommend driving the vehicle until it has been properly aligned due to major changes in suspension geometry that will affect the handling characteristics of the vehicle. A front end alignment should be performed by a qualified alignment shop after any changes to the suspension system.

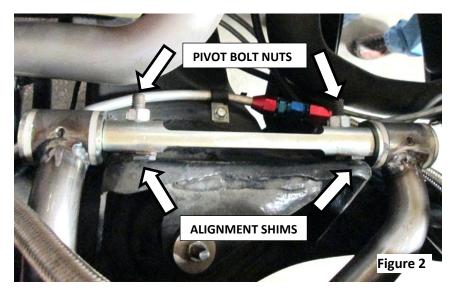
Recommended Alignment Specifications for Street Driving

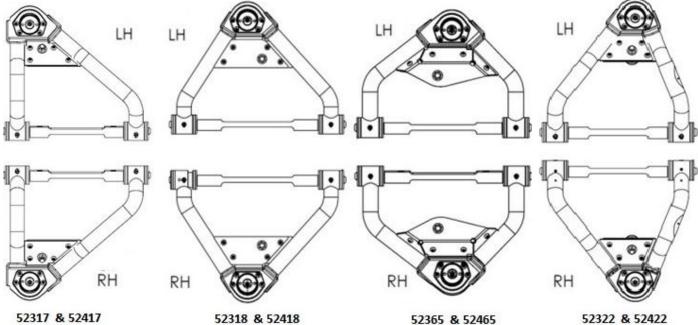
1964-1972 Chevelle and A-Body 1967-1981 Camaro and Firebird	Camber: Caster: Toe:	0 to -1 degree 3 to 5 degrees 1/16" to 1/8" toe in
1978-1988 A-Body and G-Body	Camber: Caster: Toe:	0 to -1 degree 4 to 7 degrees 1/16" to 1/8" toe in
1982-1992 Camaro and Firebird	Camber Caster Toe:	0 to -1 degrees 4 to 6 degrees 1/16" to 1/8" toe in

NOTE: These components are designed to add more caster and negative camber. It is a good idea to make the alignment shop aware of this, as the alignment shop will only try to align the vehicle to factory specs.

These alignment specifications are for vehicles equipped with both QA1 upper and lower control arms. Vehicles with other configurations may not be able to achieve these alignment specifications.







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