



350 S. St. Charles St. Jasper, In. 47546
Ph. 812.482.2932 Fax 812.634.6632

www.ridetech.com

Part # 11230298
64-67 GM "A" Body Air Suspension System

Front Components:

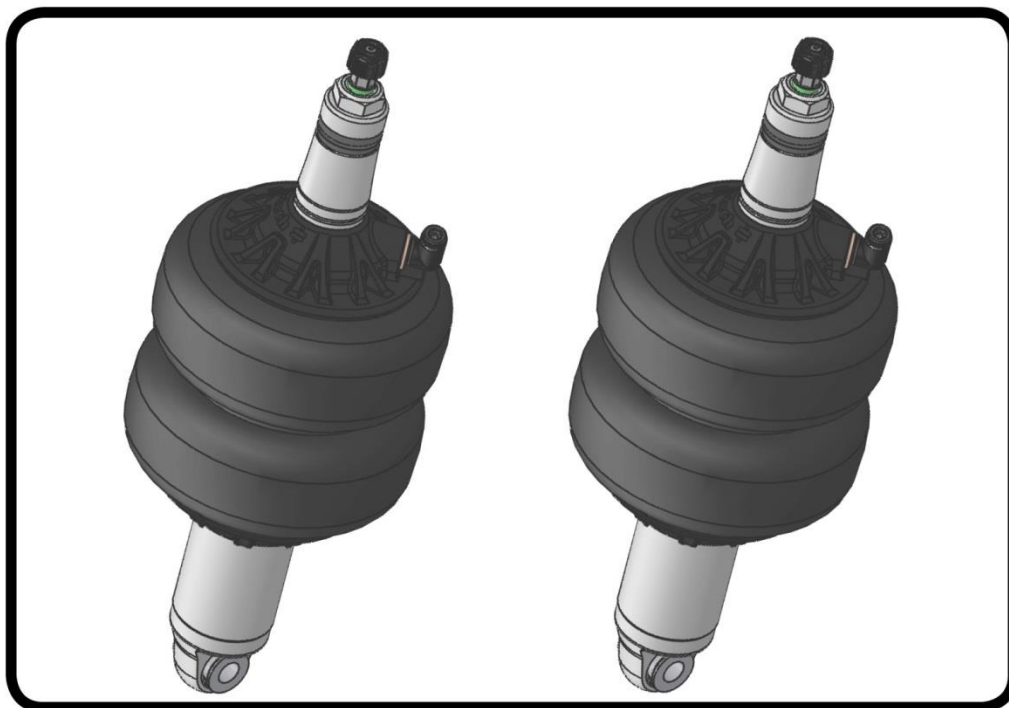
1	11233001	Front HQ Series Shockwaves
1	11222899	Front Lower StrongArms
1	11223699	Front Upper StrongArms
1	11009300	RideTech Tall Spindles
1	11239100	Front MuscleBar

Rear Components:

1	11225401	Rear HQ Series Shockwaves
1	11224499	Rear Lower StrongArms
1	11236699	Rear Upper StrongArms
1	11229102	Rear MuscleBar



Part # 11233001 - 64-67 GM A-Body Front HQ Series Shockwave



Recommended Tools



1000 Series Bellow, 2.75" Stud/Eye 4.1" Shock Installation Instructions

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ShockWave Dimensions:

Center of bearing to Center of bearing:

Compressed: 11.75"

Ride Height: 13.85"

Extended: 15.25"

THE DELRIN BALL REQUIRES A 3/4" HOLE FOR THE FLANGE TO GO THROUGH. THIS CAN BE DRILLED WITH A UNIBIT.

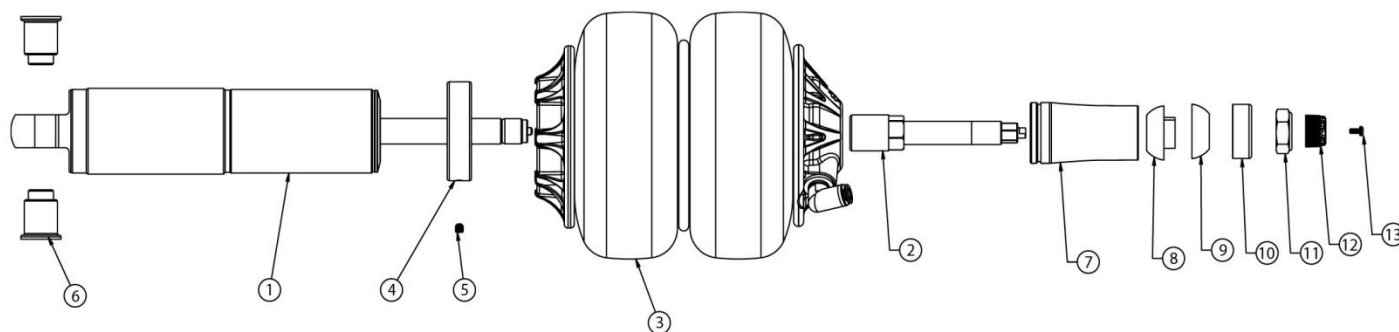
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812-482-2932





Major ComponentsIn the box

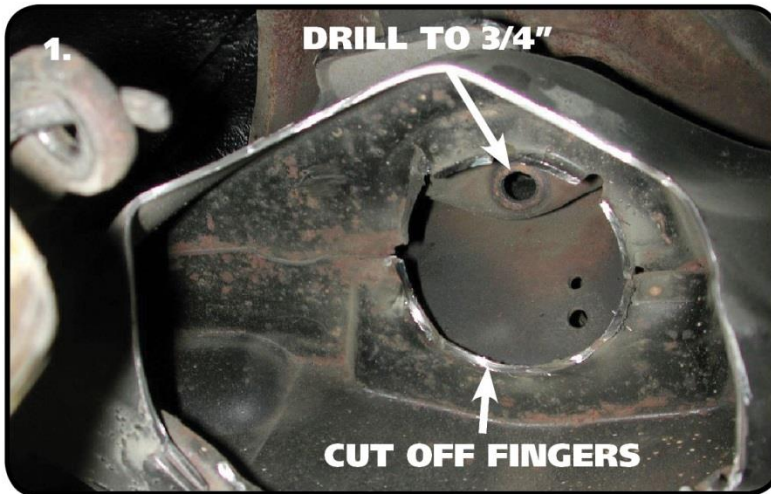
Item #	Part #	Description	QTY
1	24149999	4.1" Stroke HQ Series Shock	2
2	90009989	2.75" Stud Top (Installed on Shock) - Includes Adjuster Knob & Screw	2
3	24090199	1000 Series 6.5" Double Convolute AirSpring	2
4	70010893	AirSpring Locking Ring (Installed on shock)	2
5	99055000	Locking Ring Set Screw (Installed on shock)	2
6	90002067	Spacers - INCLUDED WITH STRONGARMS	4
7	90002313	2.75" Aluminum Stud Top Base	2
8	90001904	Bottom Delrin Ball	2
9	90001903	Top Delrin Ball	2
10	90001902	Delrin Ball Aluminum Top Cap	2
11	99562003	9/16"-18 Thin Nylok Nut	2
12	90009972	Adjuster Knob - (90009989 assembly)	2
13	90009969	#4-40 X 1/4" SS, 18-8 Pan Head Torx Cap - (90009989 assembly)	2
	70012161	2.75" Stud Top Metering Rod (installed in stud top)	2
	90001994	5/8" ID Bearing (installed in shock and eyelet)	4
	90001995	Bearing Snap Ring (installed in shock and eyelet)	8



THE DELRIN BALL REQUIRES A 3/4" HOLE FOR THE FLANGE TO GO THROUGH. THIS CAN BE DRILLED WITH A UNIBIT.



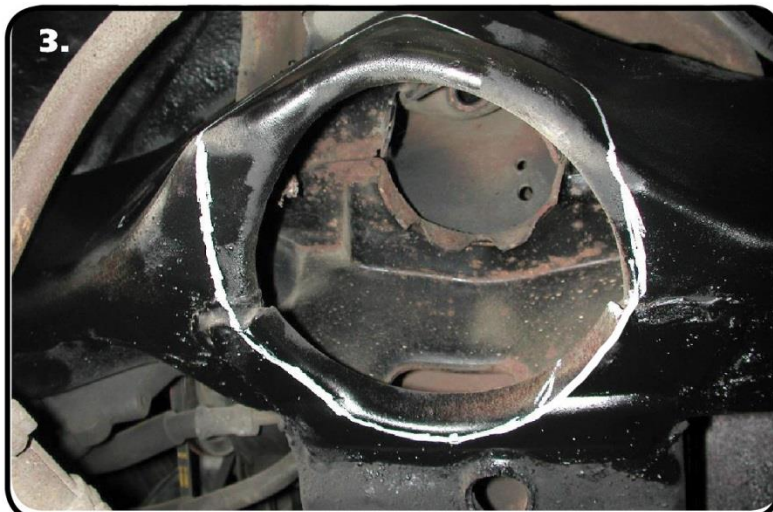
ShockWave Installation



1. Drill the OEM shock hole out to 3/4". This can be done with a Unibit. The Shockwave top can come in contact with the coil spring retaining fingers. Test fit the ShockWave to determine if they need cut off. A die grinder works well here.



2. Some trimming must also be done on the outside of the frame pocket to allow clearance for the Shockwave.



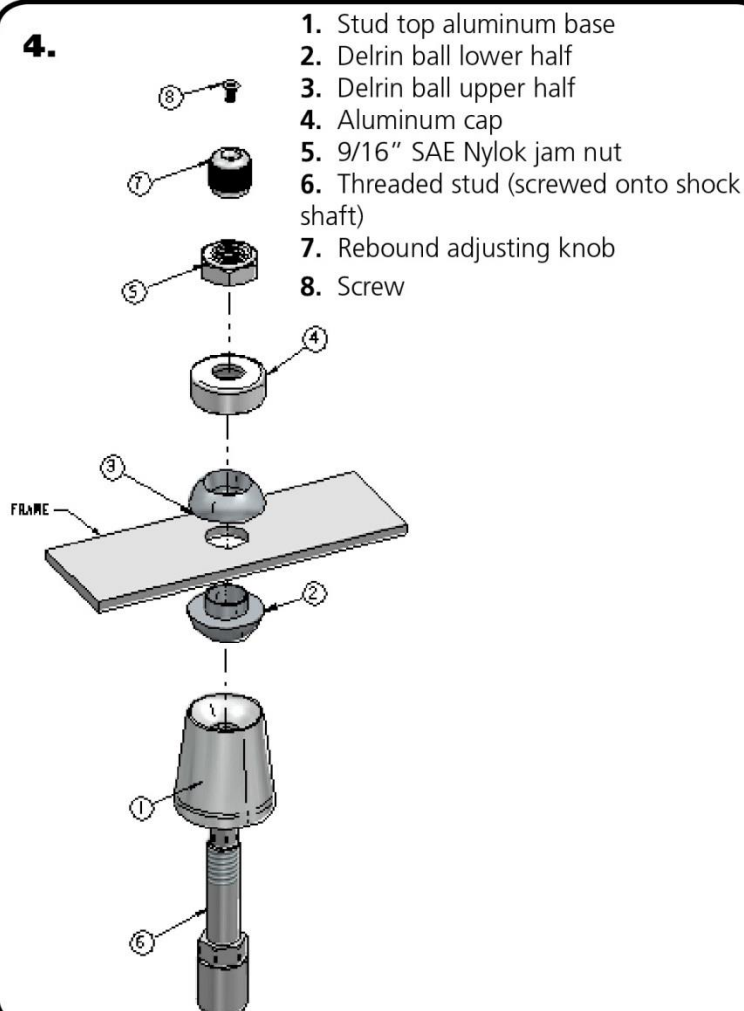
3. To allow clearance for the Shockwave, some trimming must be done on the inside of the coil spring pocket as shown by the white line in the picture. This is best done with either a cut off wheel or plasma cutter. Grind all cuts smooth when finished.

Note: It may be helpful to go ahead and install the lower StrongArms and Shockwaves to determine exactly what needs to be removed.



ShockWave Installation

4.

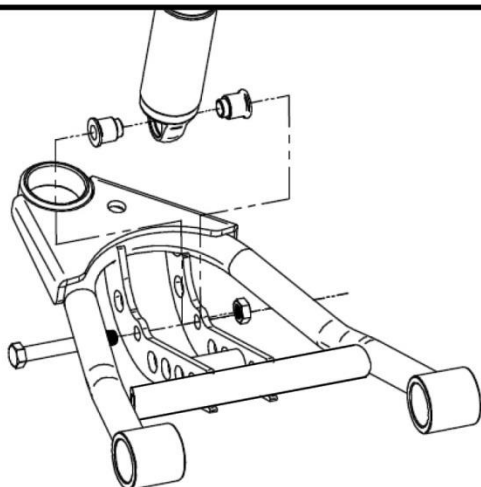


Note: The airline must also be routed at this time. It can be ran through the subframe toward the rear of the vehicle.

4. The air fitting location can be rotated by twisting the bellow assembly separate of the shock. Place the Shockwave into the coil spring pocket with the stud sticking through the OEM shock hole. See assembly **Diagram 4**. OEM Shock hole **must** be drilled out to $\frac{3}{4}$ "

1. Stud top aluminum base
2. Delrin ball lower half
3. Delrin ball upper half
4. Aluminum cap
5. 9/16" SAE Nylok jam nut
6. Threaded stud (screwed onto shock shaft)
7. Rebound adjusting knob
8. Screw

5.



5. Raise the lower arm up to the Shockwave and bolt them together using the $\frac{1}{2}$ " x $3\frac{1}{4}$ " bolt and Nylok supplied w/ the lower arms. An aluminum spacer will be on each side of the bearing. Torque to 75 ftbs.

6. Raise the lower control arm to full compression and double-check to make sure the Shockwave does not rub on anything at any-time. Allowing the Shockwave to rub on anything will cause failure and is not a warrantable situation.

7. The best ride quality will occur around 50-60% suspension travel; depending on vehicle weight this typically occurs around 85-100 psi.



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Part # 11222899

64-72 GM "A" Body Front Lower StrongArms

For Use w/ Shockwaves or CoilOvers

Components:

1	90000636	Driver side lower arm
1	90000637	Passenger side lower arm
2	90000898	Ball joint (includes boot, grease fitting, castle nut & cotter pin)
4	90000516	Inner bushing sleeve - .5" I.D. x .75" O.D. x 2.375" long
8	70010759	Delrin bushing half – 1.5" O.D.
4	90002062	Aluminum spacers – shock to lower arm

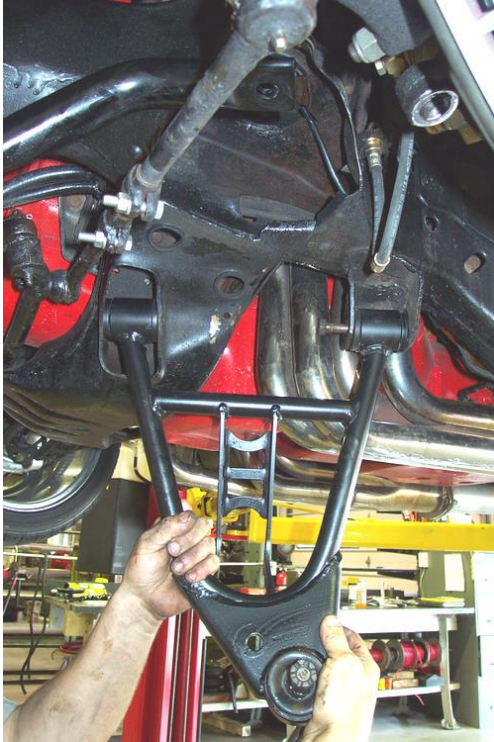
Hardware:

2	99501024	½-13 x 3 ¼" Gr.5 bolt	Shockwave to lower arm
4	99501005	½"-13 x 3 ½" Gr. 5 bolt	Lower arm to frame
6	99502001	½"-13 Nylok nut	Shockwave to lower arm / Lower arm to frame

STRONG^{ARMS}TM

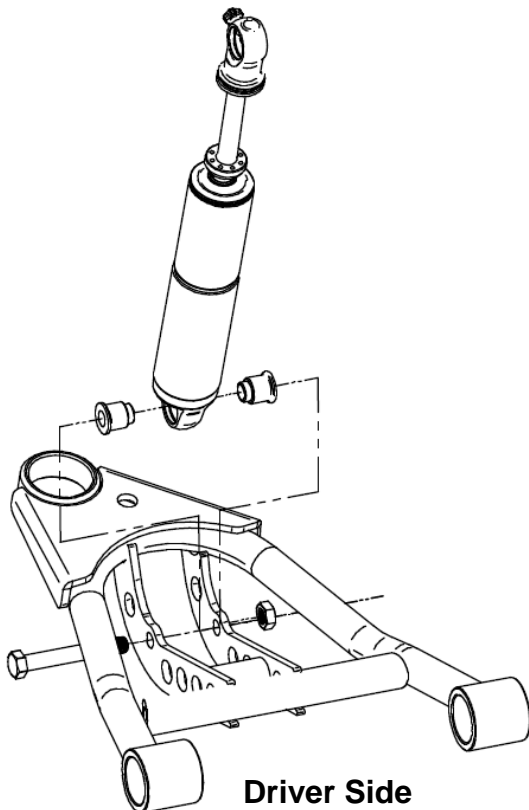
by Air Ride Technologies

Installation Instructions



1. After removing the factory lower control arm, clean the bushing mounting surfaces on the frame and lubricate with lithium grease.
2. Fasten the lower arm to the frame with the $\frac{1}{2}$ " x $3 \frac{1}{2}$ " bolts and Nylok nuts supplied.

Note: On some cars the frame brackets may be pinched and will need to be spread back apart to allow bushing to slide in.

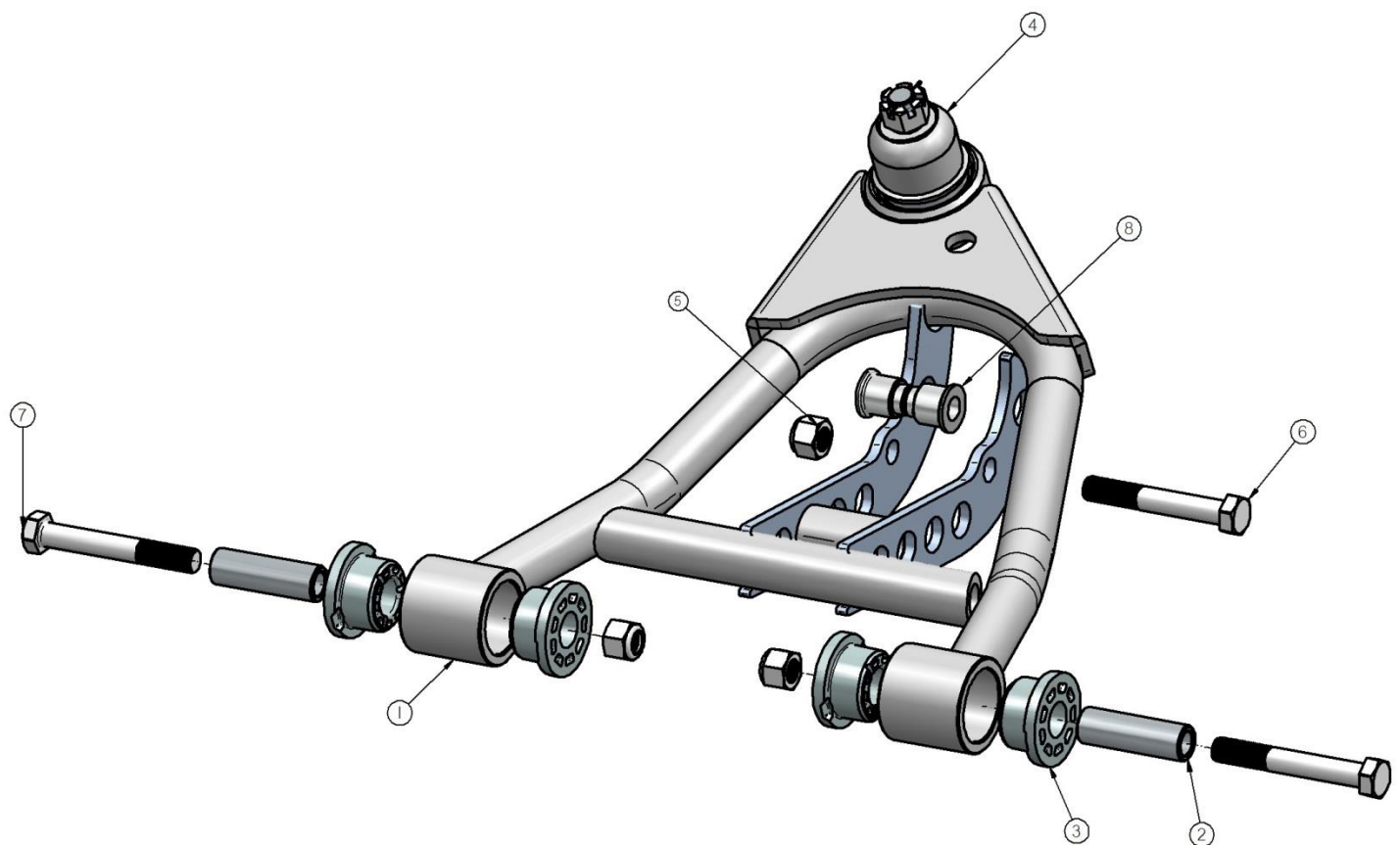


3. Swing the lower StrongArm up to the Shockwave and secure with the $\frac{1}{2}$ " x $3 \frac{1}{4}$ " bolt and Nylok nut, an aluminum spacer must be installed on each side of the bearing.
4. Slide the ball joint boot over the stud, then push the stud up through the spindle. Secure w/ the new castle nut and cotter pin supplied.
5. Grease the ball joints.

STRONG ARMS™

by Air Ride Technologies

Item #	Description	Qty.
1.	Passenger side arm	1
1.	Driver side arm	1
2.	Inner bushing sleeve	4
3.	Delrin bushing half	8
4.	Ball joint	8
5.	1/2"-13 Nylok Nut	6
6.	1/2"-13 x 3 1/4" bolt	2
7.	1/2"-13 x 3 1/2" bolt	4
8.	Aluminum bearing spacer	4





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Part # 11223699
64-72 GM "A" Body Upper StrongArms

Components:

1	90002388	Drivers side arm
1	90002389	Passenger side arm
2	90000908	Ball joint (includes boot, grease fitting, castle nut & cotter pin)
2	90000914	Caster Adjustable Cross shaft w/Hardware
2	70010826	Delrin Bushing – no ledge
2	70010827	Delrin Bushing – small ledge
4	70010759	Delrin Bushing – outer
4	90002737	Cross shaft T-washer
4	70010883	Zero Offset Caster Slugs

STRONG ARMS™

by Air Ride Technologies



1. On some cars, to remove the upper control arm you must remove the bolts, which are pressed into the frame. We made this slide hammer adapter (a nut with a piece of angle iron welded to it) to aid in removing the bolts.

2. Fasten the upper arm to the frame using the factory hardware. Reinstall the current alignment shims, but **vehicle must be realigned**. This arm was designed with an extra 2 degrees of positive caster with the centered caster slugs. Additional caster slugs are available if more or less caster is desired. By changing the caster slugs you can achieve the caster setting you are wanting without having to run a lot of shims. Caster is explained on the next page.



3. Drop ball joint down through upper arm. Slide ball joint boot over stud, then place boot retainer over the boot. Clamp assembly tight w/ the hardware supplied.

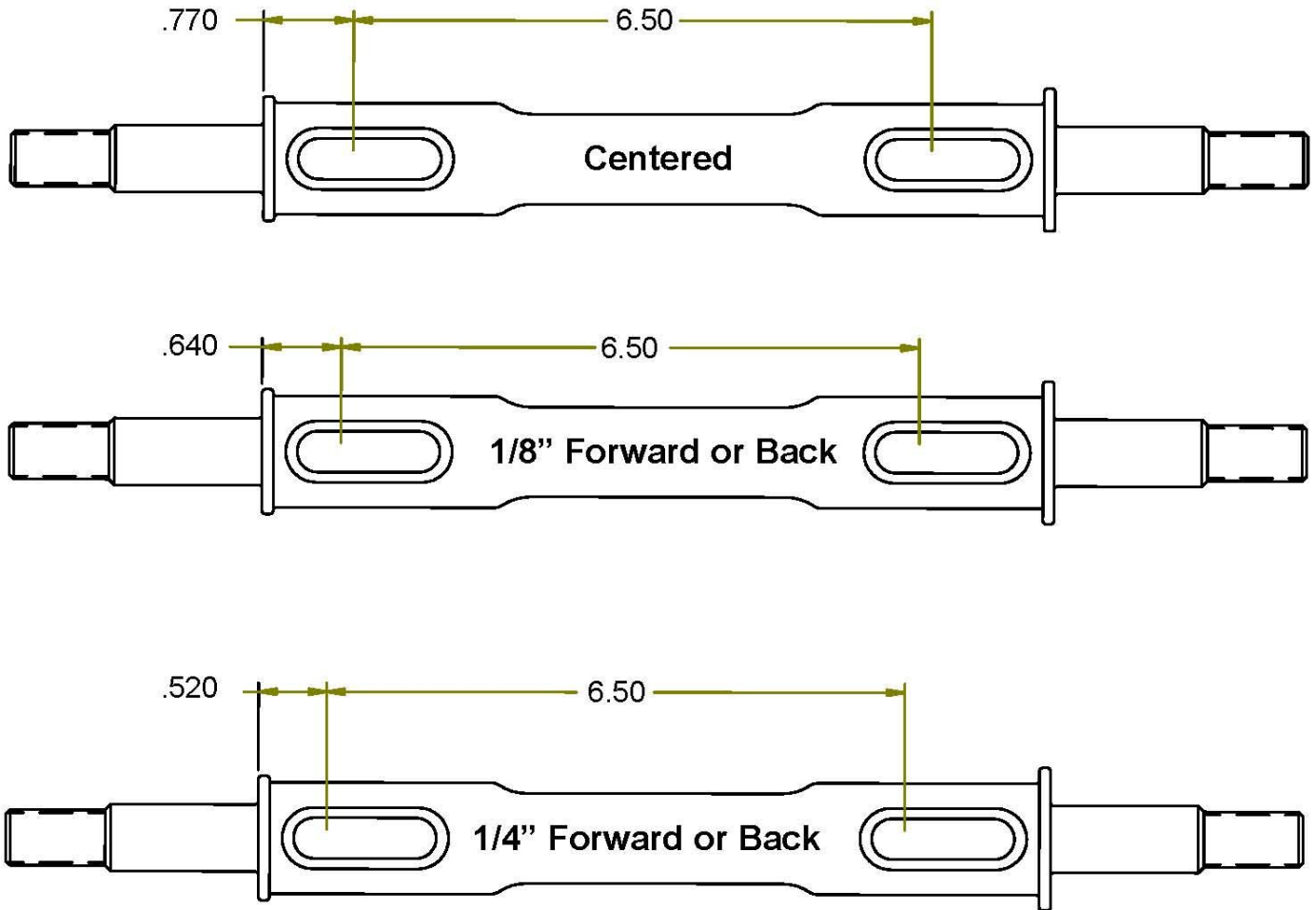
4. Fasten the ball joint to the spindle w/ the new castle nut and cotter pin supplied.

5. Tighten the cross shaft nuts enough to create drag on the delrin bushings, the arm should still move.

6. Lubricate the ball joint w/ standard grease.

STRONGARMS™

by Air Ride Technologies



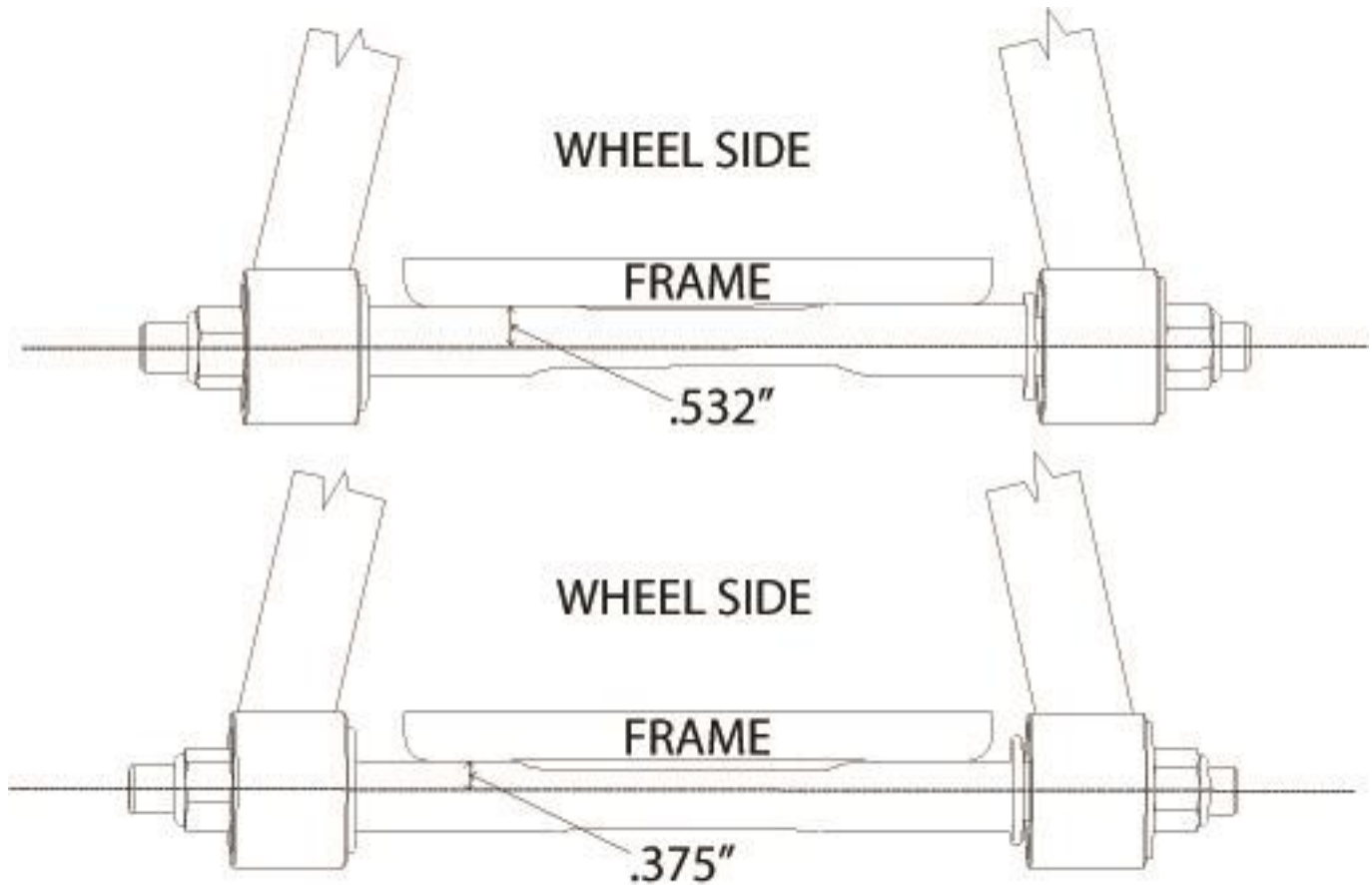
These Strong Arms come equipped with a changeable caster slug setup. This allows you to add or remove caster from the front suspension, if desired. The caster slugs that come in the kit are setup to put the control arm in the centered position, which is approximately 3 degrees of caster. The caster slugs allow you to add or remove caster without having to use a stack of shims. If more or less caster is desired, optional caster slugs can be purchased from your Ridetech dealer or Ridetech.

Caster Explained:

To understand caster you need to picture an imaginary line that runs through the upper ball joint and extends through the lower ball joint. From the side view the imaginary line will tilt forward or backward. The tilting of this imaginary line is defined as caster.

Caster is measured in degrees by using a caster camber gauge. If the imaginary line described above tilts towards the back of the car, at the top, then you will have positive caster. If the imaginary line tilts forward then you would have negative caster.

Positive caster provides the directional stability in your car. Too much positive caster will make the steering effort difficult. Power steering will allow you to run more positive caster. Negative caster requires less steering effort but can cause the car to wander down the highway.



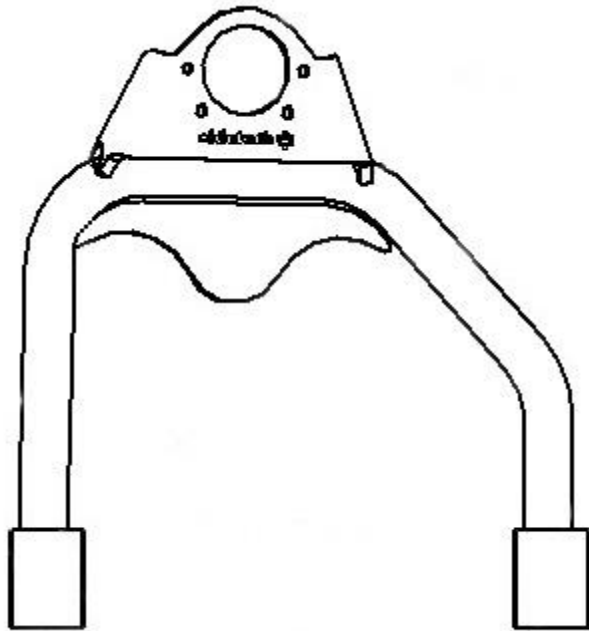
Offset Upper Cross Shaft

The cross shaft that is used in the upper control arm is offset. The offset combined with the caster slug option allows you to achieve the alignment setting you desire with minimal shims. To change the direction that the Icon faces, simply spin the cross shaft in the control arm.

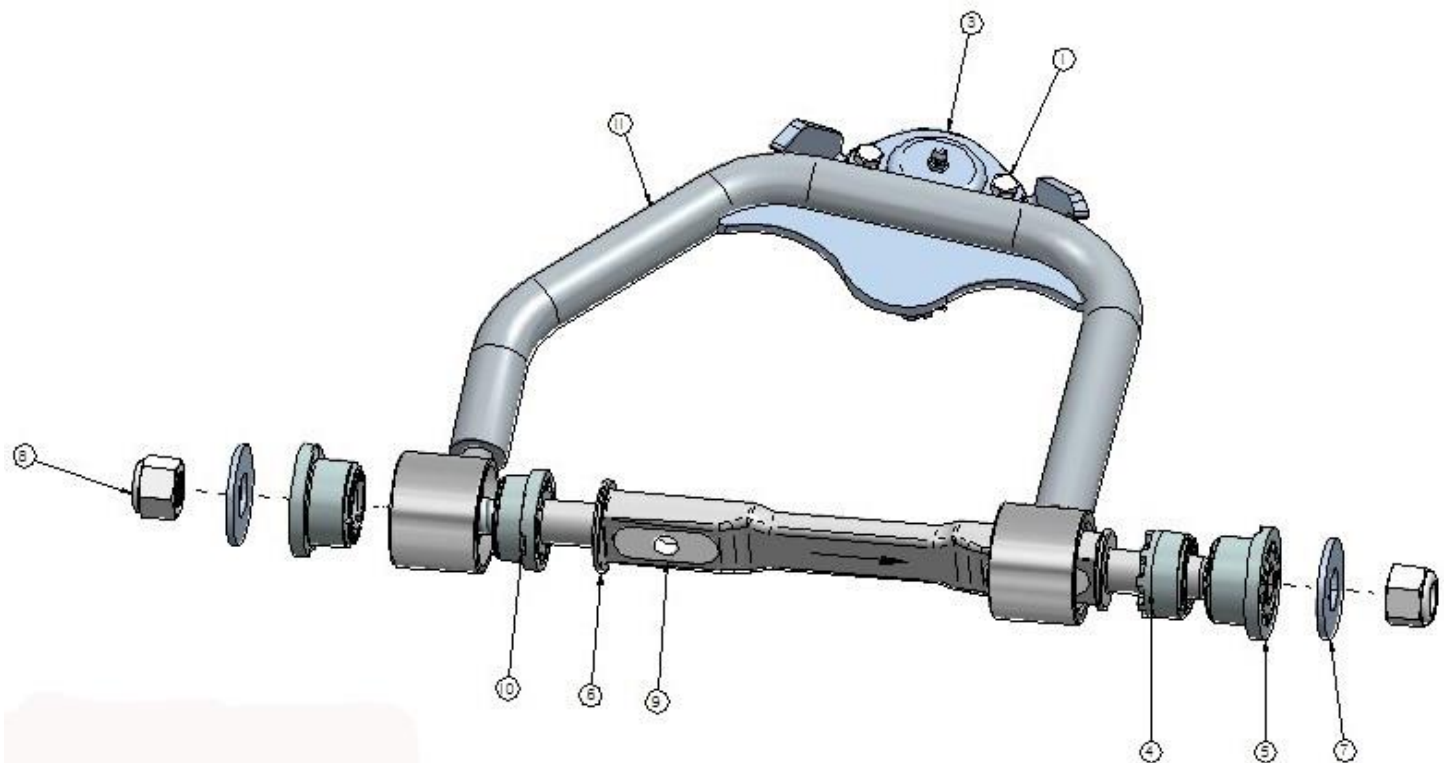
If you are after an aggressive **Track or Autocross Alignment**, bolt the control arm to the frame bracket with the arm offset to the inside of the car (like the top illustration). The Ridetech Icon will be facing the engine.

If a **Street Alignment** is desired, bolt the control to the frame bracket with the arm offset to the outside of the car (like the bottom illustration). The Ridetech Icon will be facing the wheel.

Driver Side – Bottom View



Item #	Description	Qty.
1.	1/4"-28 x 7/8" hex bolt	8
2.	1/4"-28 nut	8
3.	Ball joint	2
4.	Inner Delrin bushing no ledge	2
5.	Outer Delrin bushing	4
6.	Caster Adjustable Cross shaft	2
7.	T-Washer	4
8.	5/8"-18 lock nut	4
9.	Caster Slug	4
10.	Inner Delrin bushing w/ledge	2
11.	Passenger side arm	1
11.	Driver side arm	1



Drivers StrongArm



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11009300 GM "A" & "F" Body Tall Spindles

2 Tall Spindles

Hardware:

Lower steering arm bolts

(4) 1/2NFX 2 1/2" flathead socket head bolts with Nyloc nuts

Lower caliper bracket bolts

(2) 1/2NFX 2" flathead socket head bolts with Nyloc nuts (Wilwood and Baer Brake kits)

(2) 1/2NFX 2" Grade 8 hex head bolts (use with stock stamped 1/2" thick caliper brackets)

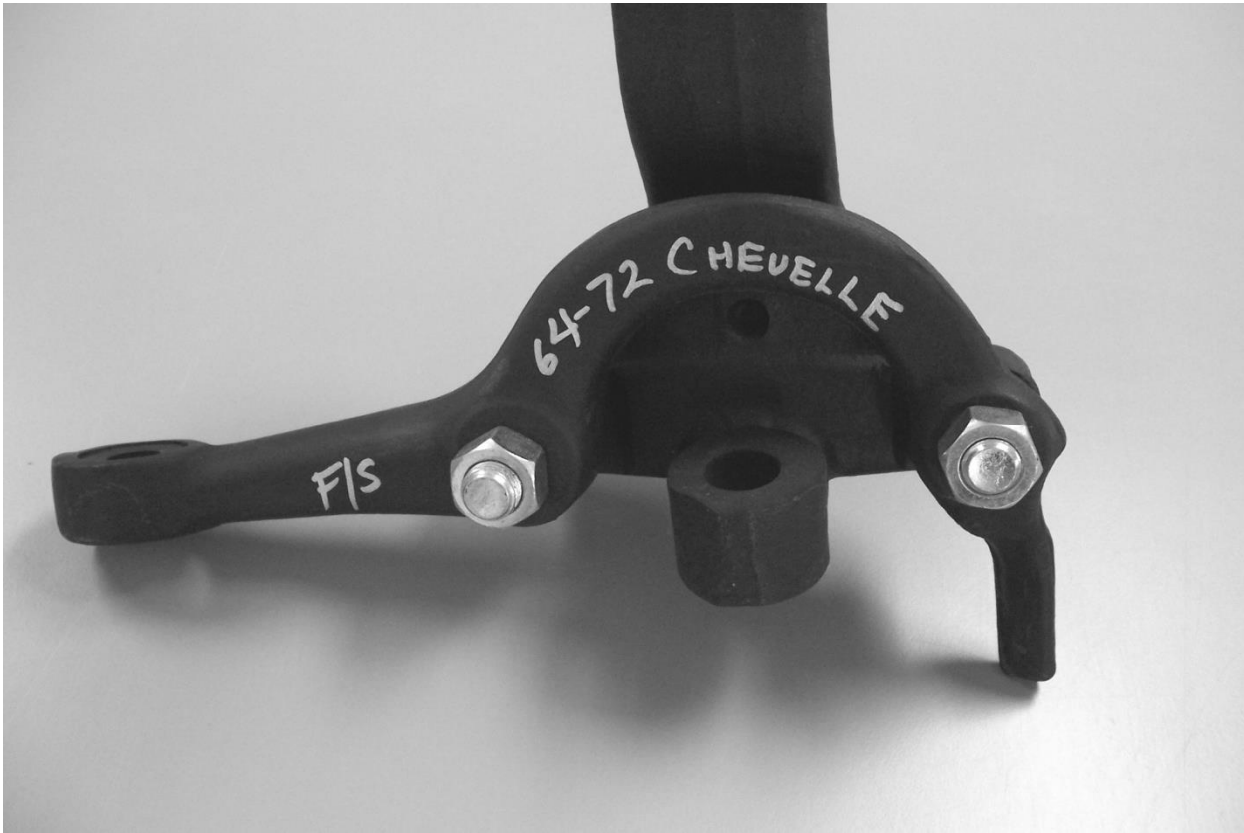
INSTRUCTIONS FOR Ridetech Tall SPINDLES

These spindles will fit '67-69 Camaro, '64-'72 Chevelle, and '68-'74 Nova. They will provide a 2" drop, and are taller than stock to improve the car's cornering ability. The raised upper ball joint will cause the tires to lean into the corner, like a motorcycle, rather than outboard as the shorter stock spindles do. This camber action change also raises the roll center for less body roll, and transfer the car's center of gravity inboard in the turn as well. You will see an appreciable improvement in handling. Standard size anti sway bars will work well with those improvements, without the need for monster sway bars that can cause a harsh ride.

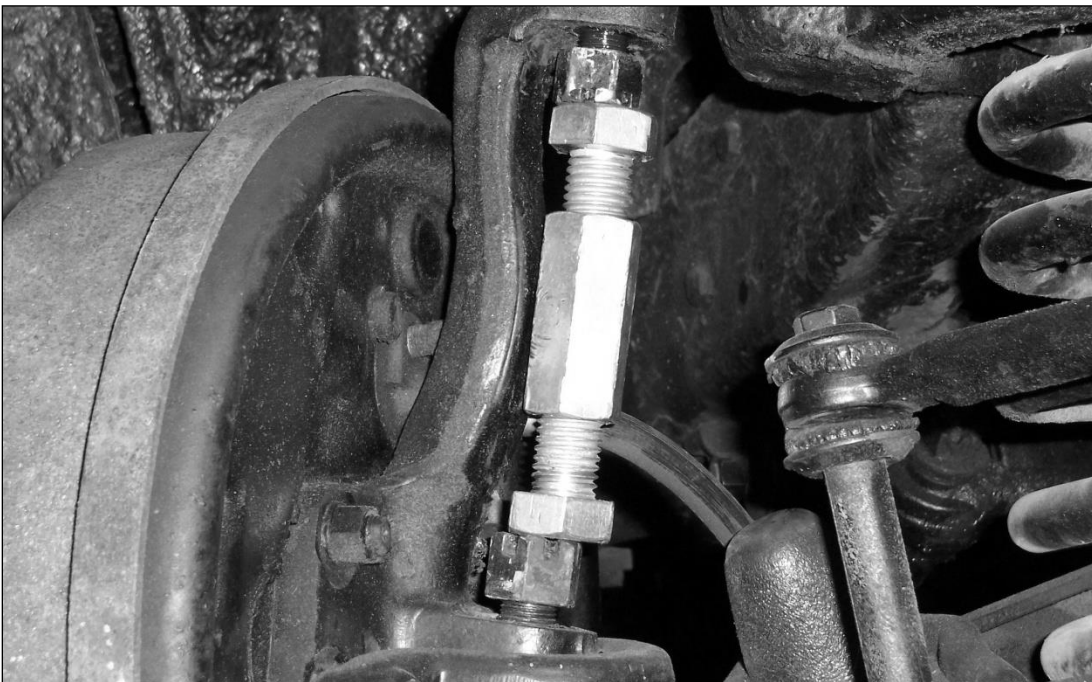
The spindles are modeled after stock disc brake spindles and will accept any disc brake set up designed for those. If your car came with drum brakes, be sure to swap to the appropriate disc brake master cylinder and valving. We have test fitted ECI, Wilwood, Baer, Aerospace, and stock GM kits. The only modification we discovered to be necessary was a small trim on the bottom of the stamped 1/4" steel caliper bracket that holds the caliper. It is an area that is not stressed and will not cause any loss of strength. There are variations among the various reproduction the shaft to be flipped in it's bushings for brackets, so the trim will be seen only on some of those.

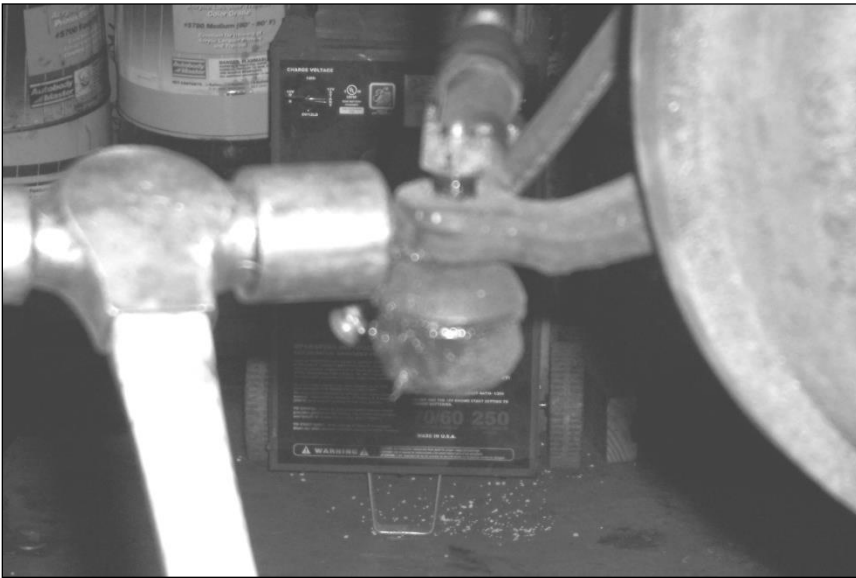
Stock stamped control arms will accept these spindles, as will any aftermarket arms we have seen. Our own tubular control arms have the upper ball joint plates rotated slightly for better ball joint angles on lowered cars. We also set the ball joint 3/4" to the rear of the car to allow more aggressive positive caster settings, as well as to compensate for the normal forward rake seen on hot rods. The upper control arms shaft has a 3/16" offset, allowing the shaft to be rotated in it's bushings for a 3/8" net change in the upper arm's effective length. That design was pioneered by the MOOG company, as many stock autos suffer from a sagged cross member, making it difficult to obtain good alignment numbers. We suggest the alignment be done with 1/8" toe in, 1/2 degree negative camber, and at least 3 degrees positive caster with power steering, 2 degrees manual.

It is important to be sure you have the proper steering arms. Many cars were updated to disc brakes in the past by using disc brake and spindle assemblies from a donor car. However, the Chevelle steering arms are front steer, and the tie rod is roughly the same height as the lower ball joint. The Camaro and Nova arms are rear steer, with the outer tie rod end much lower than the ball joint. If the incorrect arms are used, the incorrect height tie rod end will cause major bump steer problems. Our testing of prototype versions of these spindles revealed that a small additional lowering of the mounting holes for the steering arms was necessary to remove the small amount of factory bumpsteer, and to account for the changes made by the taller spindle. We included that enhancement in the production version of your new dropped spindles.



Disassembly of the ball joints from the spindles can be eased by making the simple tool shown in the photo below. A pair of 1 ½" long bolts are threaded into a matching hex coupler. The ball joint cotter pins are removed, and the hex nuts loosened a couple turns. Place the tool between the ball joint studs, and turn a bolt to expand the tool, gently popping the ball joint studs loose. If your ball joint boots are torn, as often happens when a pickle fork is used to separate the ball joints, NAPA has replacements. The best way to remove the outer tie rod pivot is to loosen the hex nut, and then rap the steering arm boss with a hammer. Tie rod ends pullers are also available if you want to be more gentle on the parts. Do NOT hammer on the tie rod stud itself! Be sure to leave the shock absorber in place to control the spring and prevent it jumping out.





If you remove the calipers but leave the hoses attached, supporting them to avoid stressing the hoses, you won't even need to rebleed the brakes!

Reattach the new spindle, being sure to get the castle nuts tight, and install new cotter pins. Attach the steering arms into the lower holes in the spindles using the 4 supplied 1/2NFx2 1/2" long flathead bolts and Nyloc nuts supplied. The 1/2NFx 2" long flat head bolts and nyloc nuts we supply are for use with Wilwood and Baer brake kit lower bracket bolts. The 1/2NFx2" hex head bolts are used with stock caliper brackets. Reassemble your disc brakes as well. Now would be a good time to clean and grease the bearings.

BEFORE you try moving the car, pump the brakes to reset the pads to the rotors. Rebleed if necessary. Have the alignment shop set the car with 1/2 degree positive camber, 2-3 degrees positive caster, and 1/8" toe in. We're sure you'll be amazed at the difference in handling!



Note: If using a factory style stamped caliper bracket, the bracket may need to be trimmed. The dust shield may also need to be modified.



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Part # 11239100
64-67 GM "A" Body Front MuscleBar

Components:

1	90000156	Front sway bar (37.875" Tube length)
1	90000148	Driver side arm
1	90000149	Passenger side arm
2	90000152	Frame plate
2	90000150	Frame bracket
2	90000926	90 degree 10mm PosiLink
2	90000924	Straight 10mm PosiLink
4	90000717	T-bushing (PosiLink to lower arm)
2	90001099	Polyurethane frame bushing - 1.5" I.D.
2	99250001	¼" - 28 straight grease zerk
1	90001092	Tube of Lithium grease
2	99115001	10mm x 1.5 x 36mm stud (use Loctite) In PosiLink

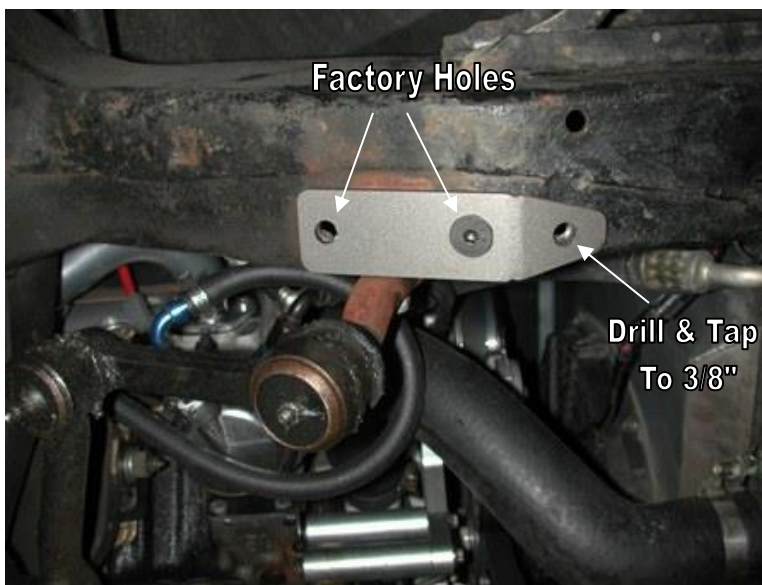
Hardware Kit: 99010040

2	99371028	3/8" x 3/4" USS Flat head Allen bolt	Frame plate to frame
4	99371004	3/8" x 1 ¼" USS bolt	Frame bracket
14	99373003	3/8" SAE flat washer	Frame bracket / Sway bar arm to bar
10	99373005	3/8" lock washer	Frame bracket / Sway bar arm to bar
6	99371017	3/8" x 1" Button head Allen bolt	Sway bar arm to bar
4	99112002	10mm Nylok nut	PosiLink
2	99502003	½" SAE Nyloc jam nut	Steering arm

MUSCLEbar™

11239100 Installation Instructions

1. This sway bar was designed for use with our lower StrongArms. Installation with other control arms may require modification.
2. Remove the end links from the factory sway bar. Then remove the bolts attaching the sway bar to the frame.



3. Bolt the frame plate to the frame using the factory sway bar holes. The front hole will use a 3/8" x 3/4" flat head Allen screw. The rear hole will use a standard 3/8" x 1 1/4" hex bolt.

4. Using the bracket as a guide, drill the front hole with a 5/16" bit and thread with a 3/8"-16 tap.

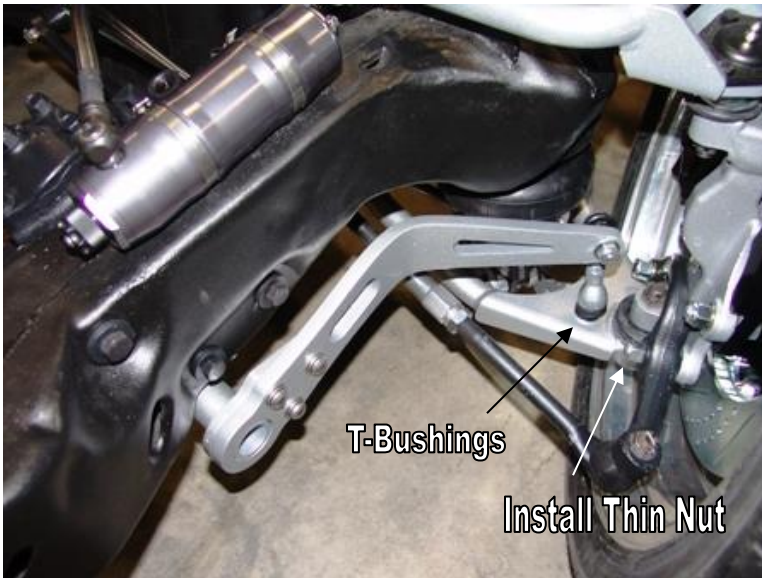
Note: On some cars the factory bolt holes may be 5/16" and will need to be drilled and tapped to accept a 3/8" bolt.



5. Slide the poly bushing over the bar and lubricate with the lithium grease supplied.

6. Slide the bracket over the bushing and fasten the bar to the frame using 3/8" x 1 1/4" bolts, flat washers and lock washers.

Note: Future lubrication should only be done with non-petroleum based lubricants.



7. Bolt the sway bar arm to the bar using 3/8" x 1" Button head screws with flat washers and lock washers.

8. Fasten the 90 degree end of the PosiLink to the sway bar arm using a 3/8" flat washer on each side of the arm and a 10mm Nylok nut.

9. Two T-bushing will be used on each side to attach the straight end of the PosiLink to the lower control arm. Secure with a 10mm Nylok nut.

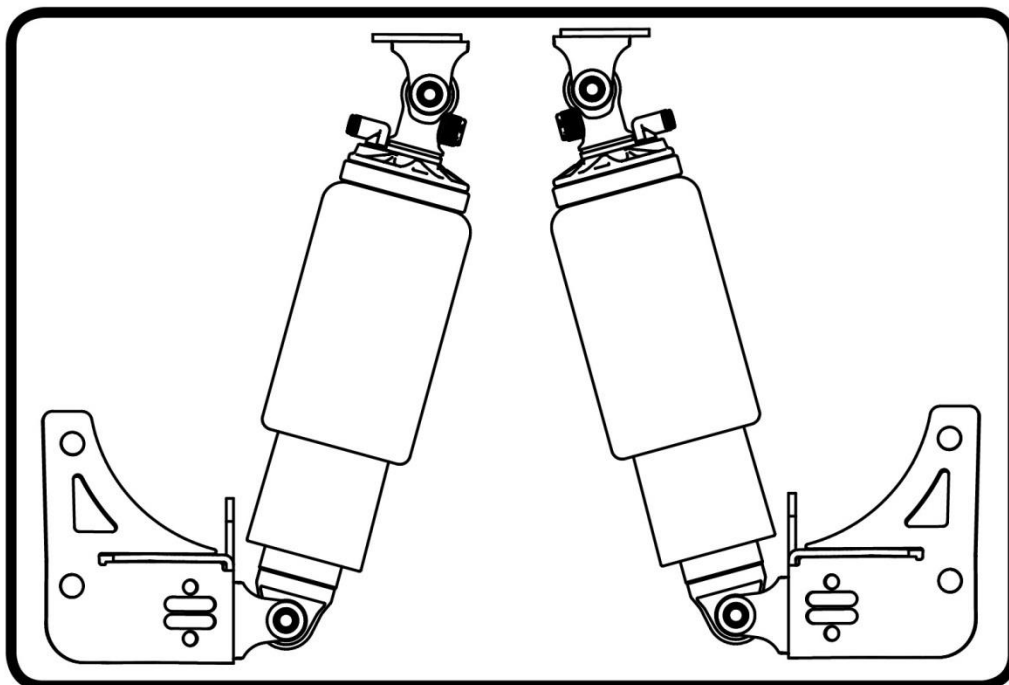
10. Install the thin 1/2" Nylok nuts on the front bolt of the steering arm, and cut off excess threads.

11. Check PosiLink alignment through full suspension travel to ensure that it does not bind.

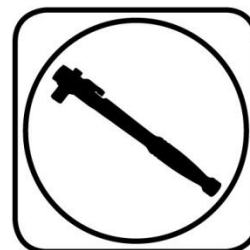




Part # 11225401 - 1964-1972 GM A-Body Rear Shockwave



Recommended Tools



64-72 A-Body HQ Series Rear Shockwave Installation Instructions

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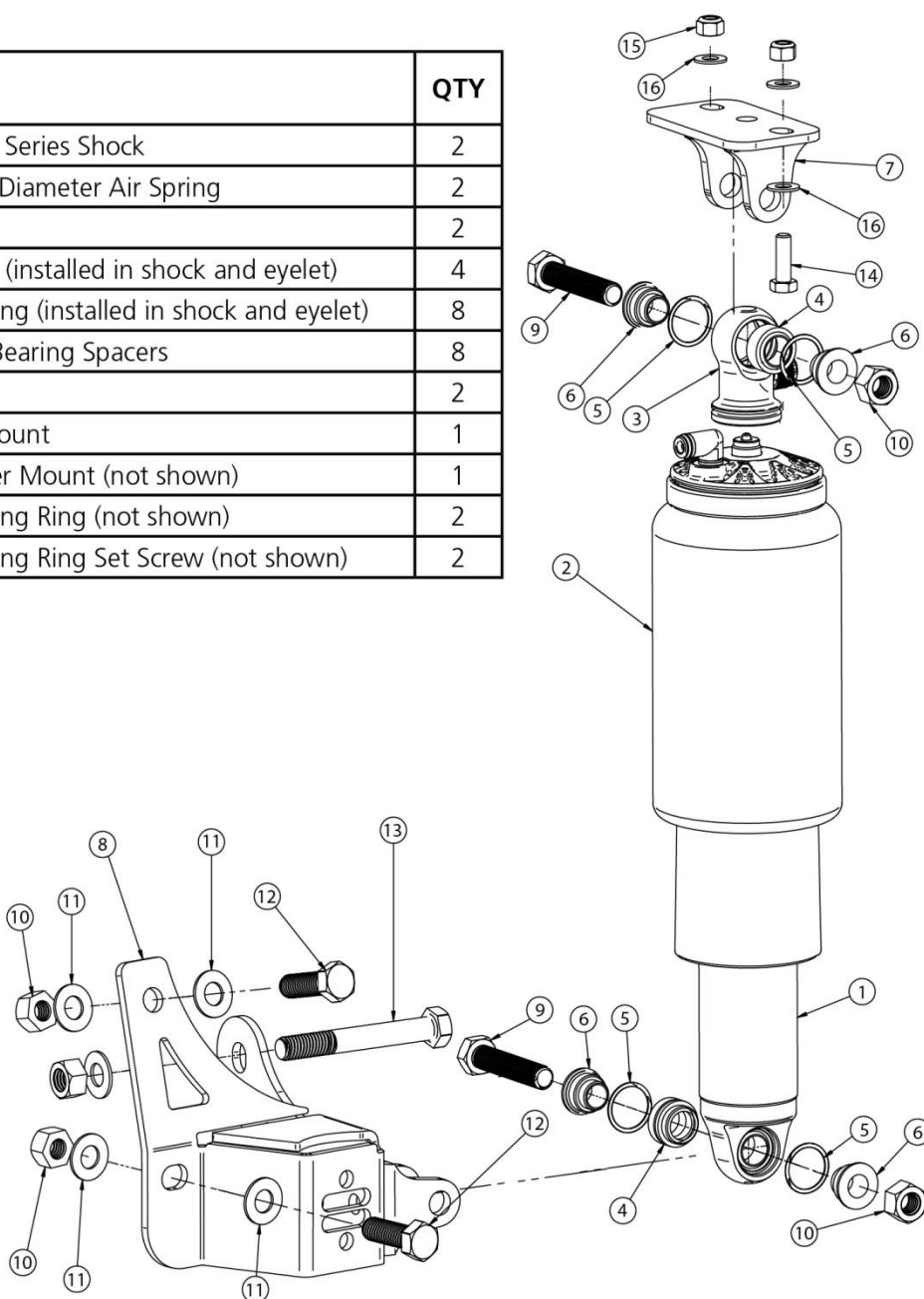
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Page 4.....	ShockWave installation
Page 5.....	ShockWave Installation and Notes and Care
Page 6.....	Care of your Shockwaves
Page 7.....	Shock Adjustment





Major ComponentsIn the box

Item #	Part #	Description	QTY
1	24159999	5.2" Stroke HQ Series Shock	2
2	24090799	7000 Series 4" Diameter Air Spring	2
3	90002024	Shock Eyelet	2
4	90001994	5/8" ID Bearing (installed in shock and eyelet)	4
5	90001995	Bearing Snap Ring (installed in shock and eyelet)	8
6	90002043	1/2" ID Upper Bearing Spacers	8
7	90002327	Upper Mount	2
8	90002224	Driver Lower Mount	1
8	90002223	Passenger Lower Mount (not shown)	1
	70008313	Air Spring Locking Ring (not shown)	2
	99055000	Air Spring Locking Ring Set Screw (not shown)	2





Hardware ListIn the box

Item #	QTY	Part Number	Description	Location
9	4	99501003	1/2" -13 x 2 1/2" Hex Bolt	ShockWave to Mounts
10	10	99502001	1/2" -13 Nylok Nut	ShockWave to Mounts, Mounts to Chassis
11	10	99503001	1/2" SAE Flat Washer	ShockWave to Mounts, Mounts to Chassis
12	4	99501002	1/2" -13 x 1 1/2" Hex Bolt	Lower Mounts to Differential
13	2	99501027	1/2" -13 x 3 3/4" Hex Bolt	Lower Mounts to Differential
14	4	99311001	5/16" -18 x 1" Hex Bolt	Upper Mounts to Frame
15	4	99312003	5/16" -18 Nylok Nut	Upper Mounts to Frame
16	8	99313002	5/16" SAE Flat Washer	Upper Mounts to Frame

Getting Started.....

Congratulations on your purchase of the Ridetech Rear Shockwave System. This system has been designed to give your car excellent handling along with a lifetime of enjoyment. One of the key features of this system is the adjustability. With the ShockWave system you have an adjustable shock along with the height adjustment of the air spring.

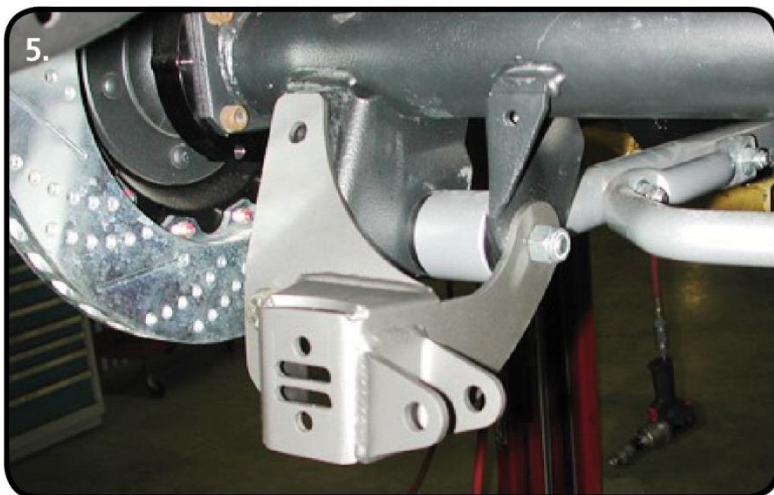
Disassembly

1. Raise and safely support the vehicle by the frame rails.
2. Using a jack, slightly raise the axle approximately 1". Remove the shock absorbers.
3. Lower the axle down enough to remove the coil springs.
4. The exhaust tail pipes may need to be removed and/or modified for ShockWave installation.

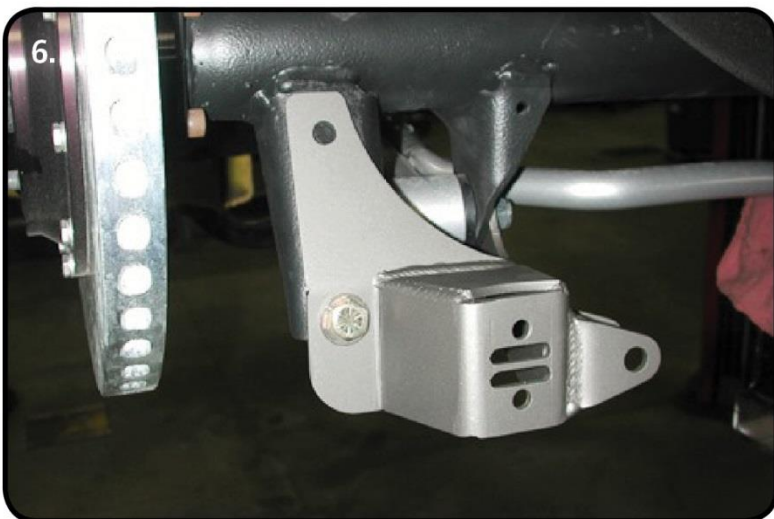
NOTE: Keep in mind the spring has pressure on it until you let the rear differential down to remove the springs.



ShockWave Installation



5. Remove the lower trailing arm mounting bolt. (Do one side at a time to keep the axle from rotating). Install the longer $\frac{1}{2}$ " x $3\frac{3}{4}$ " bolt through the lower trailing arm from the outside in. Install the lower bracket over the bolt and secure with a $\frac{1}{2}$ " Nylok nut and flat washer. Snug the Hardware, but do NOT fully tighten at this time.



6. The lower bolt hole in the back of the bracket will align with the factory shock stud hole. Use a $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt, Nylok nut and flat washers. The upper hole must be drilled with a $\frac{1}{2}$ " bit. The edge of the bracket should be parallel to the axle bracket. Use an centering punch and $\frac{1}{8}$ " bit to drill a pilot hole. A $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt, Nylok nut and flat washers will be used here as well. Torque all hardware to 75 ftlbs.

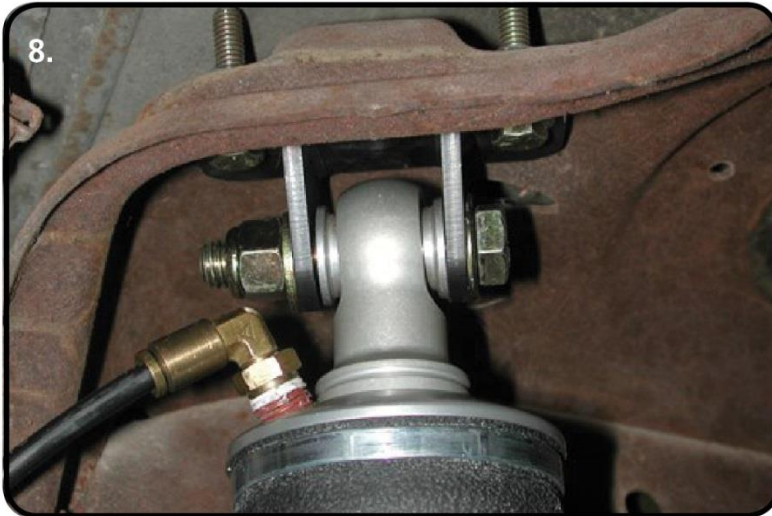


7. Fasten the new upper shock bracket into the factory shock location using the $\frac{5}{16}$ " x 1" bolts, flat washers and Nylok nuts supplied. Torque to 17 ftlbs.

Note: Position the bracket to offset the shock toward the center of the car.

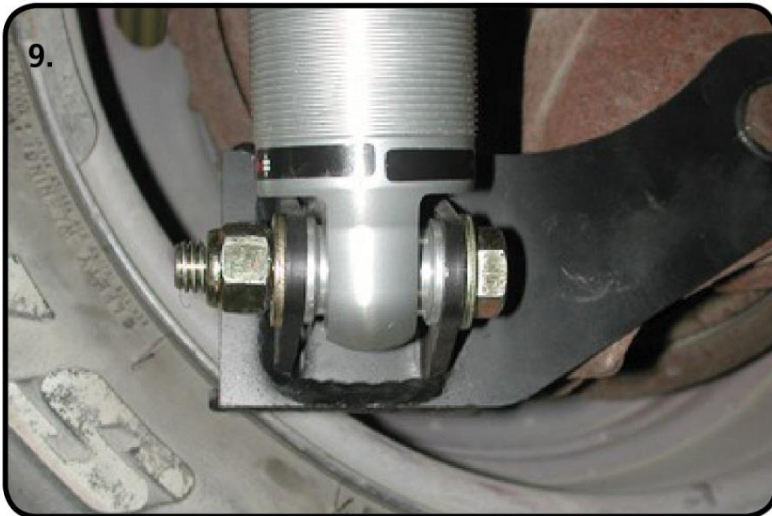


ShockWave Installation



8. Fasten the ShockWave to the upper bracket using a ½" x 2 ½" bolt and Nylok nut. ½" I.D. aluminum spacers must be installed on each side of the bearing. Torque to 75 ftlbs.

Note: The air fitting location can be rotated by twisting the bellow separate of the shock.



9. Fasten the ShockWave to the lower bracket using a ½" x 2 ½" bolt and Nylok nut. ½" I.D. aluminum spacers must be installed on each side of the bearing. Torque to 75 ftlbs.

10. Double check air spring clearances throughout full suspension travel.

11. Ride height on this ShockWave is 14.5" from center eye to center eye. This should occur around 70-80psi, but may vary to vehicle weight and driver preference

Notes and Care of your Shockwaves

NOTES:

You can clock the air fitting location on the ShockWave by turning the Air Spring assembly of the shock.

The threads on fittings need to have thread sealant applied to seal properly.

When cutting the airline, use a razor blade. The cut needs to be a clean cut and square for the airline to seal properly.

The Locking ring on the shock is **NOT** adjustable. These rings are set at the factory to optimize the Air Spring stroke with the shock stroke.



Care of your ShockWaves

The care and feeding of your new ShockWaves

1. Although the ShockWave has an internal bumpstop, **DO NOT DRIVE THE VEHICLE DEFLATED RESTING ON THIS BUMPSTOP. DAMAGE WILL RESULT.** The internal bumpstop will be damaged, the shock bushings will be damaged, and the vehicle shock mounting points may be damaged to the point of failure. This is a non warrantable situation.
2. Do not drive the vehicle overinflated or "topped out". Over a period of time the shock valving will be damaged, possibly to the point of failure. This is a non warrantable situation! If you need to raise your vehicle higher than the ShockWave allows, you will need a longer unit.
3. The ShockWave is designed to give a great ride quality and to raise and lower the vehicle. **IT IS NOT MADE TO HOP OR JUMP!** If you want to hop or jump, hydraulics are a better choice. This abuse will result in bent piston rods, broken shock mounts, and destroyed bushings. This is a non warrantable situation.
4. Do not let the ShockWave bellows rub on anything. Failure will result. This is a non warrantable situation.
5. The ShockWave product has been field tested on numerous vehicles as well as subjected to many different stress tests to ensure that there are no leakage or durability problems. Failures have been nearly nonexistent unless abused as described above. If the Shockwave units are installed properly and are not abused, they will last many, many years. ShockWave units that are returned with broken mounts, bent piston rods, destroyed bumpstops or bushings, or abrasions on the bellows will not be warrantied.



Shock Adjustment

Shock adjustment 101- Single Adjustable

Rebound Adjustment:

How to adjust your new shocks.

The rebound adjustment knob is located on the top of the shock absorber protruding from the eyelet.

You must first begin at the ZERO setting, then set the shock to a soft setting of 20.



-Begin with the shocks adjusted to the ZERO rebound position (full stiff). Do this by rotating the rebound adjuster knob clockwise until it stops.



-Now turn the rebound adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use).

Take the vehicle for a test drive.



-if you are satisfied with the ride quality, do not do anything, you are set!

-if the ride quality is too soft increase the damping effect by rotating the rebound knob clock wise 3 clicks. **CONTINUE ON NEXT PAGE.**

Take the vehicle for another test drive.



-if the vehicle is too soft increase the damping effect by rotating the rebound knob clock wise 3 additional clicks.



-If the vehicle is too stiff rotate the rebound adjustment knob counter clock wise 2 clicks and you are set!

Take the vehicle for another test drive and repeat the above steps until the ride quality is satisfactory.

Note:

One end of the vehicle will likely reach the desired setting before the other end. If this happens stop adjusting the satisfied end and keep adjusting the unsatisfied end until the overall ride quality is satisfactory.

STILL HAVE QUESTIONS?

Tech line hours

Monday - Friday

8AM - 6PM (EST) 812-482-2932



350 S. St. Charles St. Jasper, In. 47546

Ph. 812.482.2932 Fax 812.634.6632

www.ridetech.com

Part # 11224499

64-72 GM "A" Body Rear Lower StrongArms

Components:

2	90001026	Lower StrongArm – WW 22"
8	90001089	Poly bushing half – .75" I.D. x 1.5" O.D. x 1.125" long
4	90000516	Bushing sleeve - .5" I.D. x .75" O.D. x 2.375" long
2	90001092	Tube of Lithium grease – to lubrication bushing mounting surfaces

Hardware:

4	99431003	7/16" x 3" USS bolt	Swaybar to lower bars
4	99432001	7/16" USS Nylok nut	Swaybar to lower bars
8	99433002	7/16" SAE flat washer	Swaybar to lower bars
4	99501006	1/2" x 3 1/2" USS Gr. 8 bolt	StrongArms to frame
4	99502001	1/2" USS Gr. 8 Nylok nut	StrongArms to frame

STRONG^{ARMS}TM

by Air Ride Technologies

Installation Instructions



1. Remove the sway bar (if equipped) and factory lower trailing arm. Do one side at a time to keep the axle from rotating.
2. Clean bushing mounting surfaces on frame. Lubricate w/ lithium grease supplied.
2. Attach to front on the lower StrongArm to the frame using the $\frac{1}{2}$ " x $3\frac{1}{2}$ " bolts and Nylok nuts supplied.
3. This arm has holes in the tube for sway bar attachment. Mount the bar so that the holes are closest to the axle. New $\frac{7}{16}$ " x 3" bolts are supplied to reattach the sway bar.



4. Attach to rear of the lower StrongArm to the frame using the $\frac{1}{2}$ " x $3\frac{1}{2}$ " bolts and Nylok nuts supplied.

Note: These polyurethane bushing are lubricated at the factory w/ lithium grease.

Note: Tighten the bolts enough to remove any lateral movement and apply moderate drag on bushings. Over-tightening can cause excessive suspension bind.



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Part # 11236699
64-67 GM A-Body Rear Upper StrongArms

Components:

2	90001116	Upper StrongArm (Set to 12.75")
2	90001589	Kevlar lined Heim end
4	90002065	Aluminum spacers for Heim end

Hardware:

2	99752004	3/4" SAE Jam nut	Heim end
4	99501006	1/2" x 3 1/2" USS Gr. 8 bolt	StrongArms
4	99502001	1/2" USS Gr. 8 Nut	StrongArms

Installation Instructions



1. The length of the upper bar should be set from the factory at 12.75" center to center. Ensure that the jam nut is tight.
2. Using the ½" x 3 ½" bolt and Nylok nut supplied, fasten the heim end to the frame bracket. An aluminum spacer must be installed on each side of the Heim end.



3. Fasten the other end of the bar to the axle using a ½" x 3 ½" bolt and Nylok nut.

Note: Inspect the rubber bushing in the axle for wear or cracked. Replace with factory replacement bushing if needed.



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Part # 11229102
64-72 GM "A" Body Rear MuscleBar

Components:

1 90009960 Rear sway bar

Hardware:

4	99431003	7/16" x 3" bolt	Sway bar to lower arm
4	99432001	7/16" Nylok nut	Sway bar to lower arm
8	99433002	7/16" flat washer	Sway bar to lower arm

MUSCLEbarTM
by Air Ride Technologies

Installation Instructions



1. Attach sway bar to lower trailing arms using 7/16" x 3" bolts, Nylok nuts and flat washers supplied.
2. If using factory trailing arm without sway bar mounting holes, they will need to be drilled. Use the sway bar as a template; it is self positioning as the lower arms are angled. Spacers are supplied to keep from pinching the arm.