



Part # 11170396 - 1970-1981 GM "F" Body TQ ShockWave System

Front Components:

11173011 Front ShockWave Instructions
 11173699 Front Upper Control Arms
 11172899 Front Lower Control Arms
 11179120 Front SwayBar Instructions

Rear Components:

11177187 Rear 4Link System

24350701 Rear ShockWave Instructions

Recommended Tools





1970-1981 GM "F" Body ShockWave Installation Instructions



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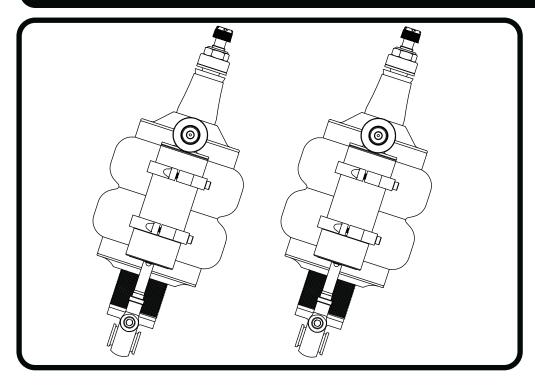
Pages 2-5...... Front ShockWaves
Pages 6-10...... Upper Control Arms
Pages 11-14..... Lower Control Arms
Pages 15-17..... Front MuscleBar
Pages 18-44... Rear 4 Link System
Pages 45-49... Rear ShockWaves







Part # 11173011 - 70-81 GM F-Body Front TQ Series Shockwave



Recommended Tools





1000 Series Bellow, 2.75" Stud/Eye 3.6 " Shock Installation Instructions

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Page 4-5...... ShockWave installation

ShockWave Dimensions:

Center of bearing to Center of bearing:

Compressed: 11.05" Ride Height: 12.85" Extended: 14.05"

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

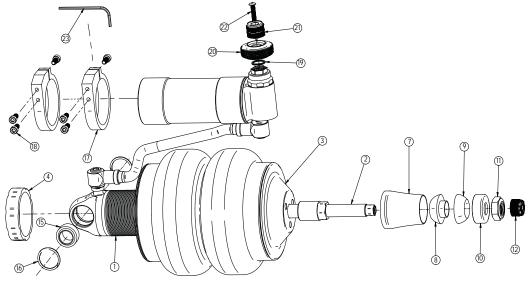






Major ComponentsIn the box

Item #	Part #	Description	QTY
1	986-10-070	3.6" Stroke TQ Series Shock	2
2	90009989	2.75" Stud Top (Installed on Shock) - Includes Adjuster Knob & Screw	2
3	24090199	1000 Series 6.5" Double Convoluted AirSpring	2
4	234-00-153	AirSpring Locking Ring (Installed on shock)	2
	99055000	Locking Ring Set Screw (Installed on shock)	2
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	210-35-120-0	Adjuster Knob - (90009989 assembly)	2
	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
15	90001994	5/8" ID Bearing (installed in shock and eyelet)	4
16	90001995	Bearing Snap Ring (installed in shock and eyelet)	8
17	026-05-000	Reservoir Mount	4
18	99050000	Reservoir Mounting Screw - 5mm SS X .5 SHCS	12
19	99952006	Spring Washer	2
20	90009908	High Speed Adjsuter Knob	2
21	90009907	Low Speed Adjsuter Knob	2
22	99041000	4 -40 X .500 Button head socket cap screw	2
23	85000003	Hex Wrench for Reservoir Mounting Screws	1

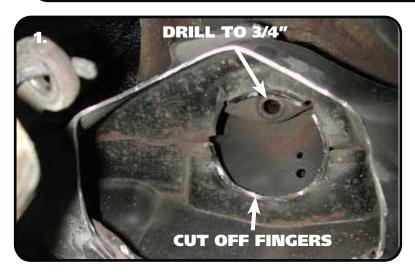


WARNING: ATTEMPTING TO REMOVE THE AIR FITTING WILL DAMAGE IT AND VOID THE WARRANTY.





ShockWave Installation



1. Drill the OEM shock hole out to 3/4". This can be done with a Unibit. The Shockwave top will come in contact with the coil spring retaining fingers, they must be 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.



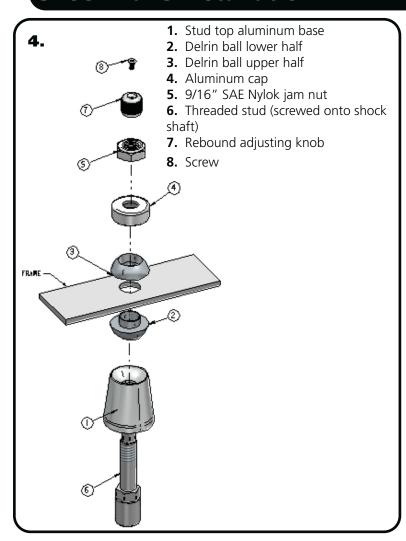
3. To allow clearance for the Shockwave, some trimming must be done on the inside of the coil spring pocket as shown by the white line in the picture. This is best done with either a cut off wheel or plasma cutter. Grind all cuts smooth when finished.

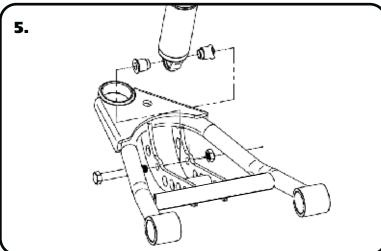
Note: It may be helpful to go ahead and install the lower StrongArms and Shockwaves to determine exactly what needs to be removed.





ShockWave Installation





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 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

TIGHTENING THE TOP 9/16"-18 NUT: SNUG THE NUT DOWN AGAINST THE TOP CAP. YOU NEED TO BE ABLE TO ARTICULATE THE SHOCK BY HAND. WE TORQUE THE NUT TO 80 INLBS USING A 7/8" CROWS FOOT WRENCH ON A TORQUE WRENCH.

- **5.** Raise the lower arm up to the Shockwave and bolt them together using the 1/2" x 3 ¼" 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 anytime. 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.





Part # 11173699 - 1970-1981 GM F-Body Front Upper StrongArms



Recommended Tools





1970-1981 GM F-Body Upper StrongArms Installation Instructions



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Page 10...... Installation & The Finish



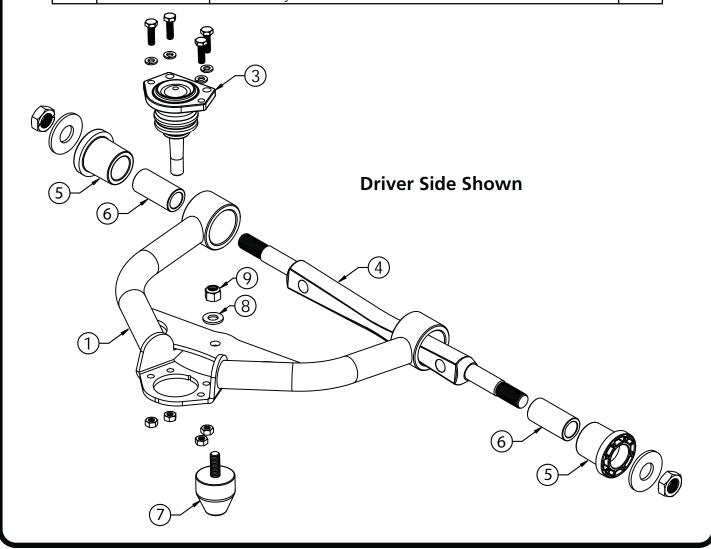






Upper Control Arm ComponentsIn the box

Item #	Part Number	Description	QTY
1	90003493	Driver Upper Control Arm (Shown)	1
2	90003494	Passenger Upper Control Arm	1
3	90000913	Tall Upper Balljoint Assembly - Proforged # 101-10020	2
4	90000917	Upper Cross Shaft Kit - includes nuts and washers	2
5	90001442	Delrin Control Arm Bushing	4
6	90003385	Delrin Bushing Inner Sleeve	4
7	70013323	Bump Stop	2
8	99373003	3/8" SAE Flat Washer	2
9	99372002	3/8"-16 Nylok Nut	2







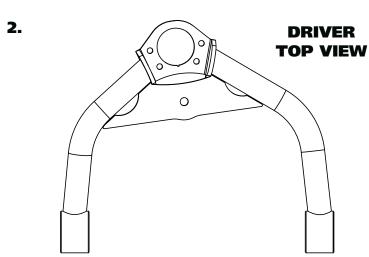
Getting Started.....

Congratulations on your purchase of the Ridetech F-Body StrongArms. These StrongArms have been designed to give your F-Body excellent handling along with a lifetime of enjoyment. Some of the key features of the StrongArms: Ball Joint angles have been optimized for the lowered ride height, Delrin bushings are used to eliminate bushing deflection along with providing free suspension movement through the entire travel. The Geometry has been optimized for excellent handling and driveabilty. The Delrin bushings are made from a material that is self lubricating so no grease zerks are needed.

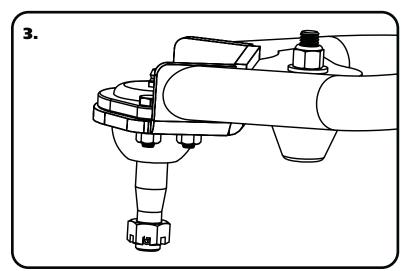
The cross shaft washers and nuts will need to be installed on the cross shaft. When assembling the Control Arms tighten the cross shaft nuts enough to create drag on the delrin bushings, the arm should still move through its travel by hand.

Installation

1. Remove the entire upper control arms from the car. If you are replacing the lower control arms and spindle, remove them too. Refer to a Factory Service Manual for the proper method.



2. The Upper Control Arm is attached to the factory mount using factory hardware. Torque the nuts to 50 ft-lbs. The driver side arm is shown in **Figure "2"**. The ball joint located on the arm to the rear of the car.

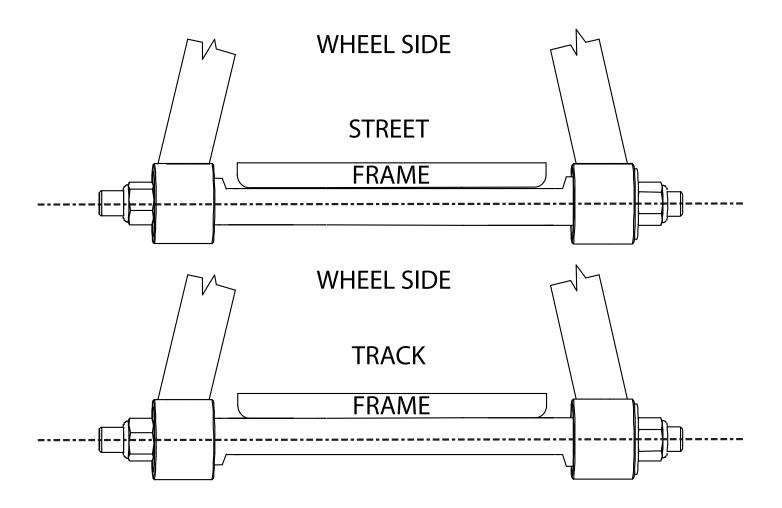


3. Install the Ball Joints in the control arms using **Figure "3"** as a reference. Torque the hardware to 10 ftlbs





Offset Upper Control Arm Shaft



The cross shaft that is used in the upper control arms is offset. The offset allows you to achieve the alignment setting you desire with minimal shims. To change the direction of the offset, simply spin the cross shaft in the control arm.

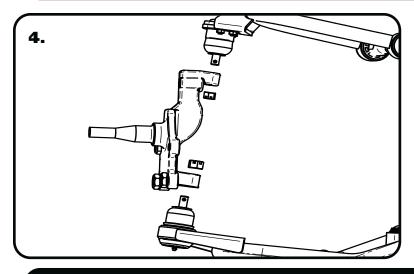
If you are after a **Street Alignment** bolt the upper control arm to the frame mount with the arm offset to the outside of the car.

If a more aggressive **Track or Autocross** alignment is desired, bolt the control arm to the frame bracket with the arm offset to the inside of the car.





Installing Upper Control Arms



4. Attach the Spindle to the control arms. The steering arm of the spindle will go to the front of the car.

Torque Specs:

Lower Balljoint - 65 ftlbs and tighten to line up cotter pin.

Upper Balljoint - 50 ftlbs and tighten to line up cotter pin.

The Finish

5. Tighten all fasteners. If you are going to install the Ridetech MuscleBar, now is a good time to do it.

When assembling the Control Arms tighten the cross shaft nuts enough to create drag on the delrin bushings, the arm should still move through its travel by hand.

Suggested Alignment Specs:

Camber: Street: -.5 degrees

Caster: Street: +3.0 to + 5.0 degrees
Toe: Street: 1/16" to 1/8" toe in





Part # 11172899 - 1970-1981 GM F-Body Lower StrongArms



Recommended Tools





1970-1981 GM F-Body Lower StrongArms Installation Instructions



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Page 14...... The Finish







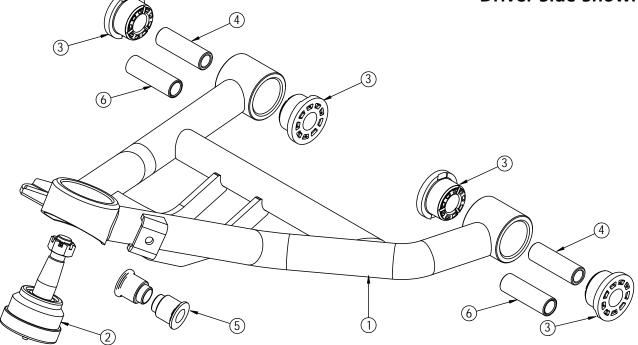




Lower Control Arm ComponentsIn the box

Item #	Part Number	Description	QTY
1	90003495	Driver Lower Control Arm (Shown)	1
1	90003496	Passenger Lower Control Arm	1
2	90000896	Lower Ball joint Assembly - Proforged # 101-10049	2
3	70010759	Delrin Bushing - with 2" Diameter Ledge	8
4	90000516	1/2" ID Inner Sleeve - installed in control arms	4
5	90002062	CoilOver Bearing Spacers	4
6	90000517	9/16" ID Inner Sleeve	4

Driver Side Shown



Hardware Kit #99010144

Item #	Part Number	Description	QTY
6	99501005	1/2"-13 x 3 1/2" Hex Bolt	6
7	99502009	1/2"-13 Nylok Nut	6
8	99503014	1/2" SAE Flat Washer	10
6	99561010	9/16"-12 x 3 1/2" Hex Bolt	4
7	99562006	9/16"-12 Nylok Nut	4
8	99563003	9/16" SAE Flat Washer	8





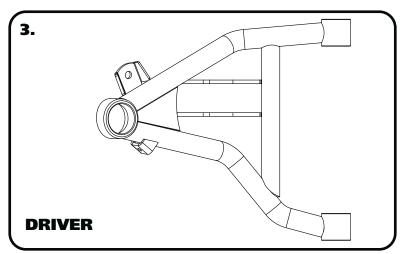
Getting Started.....

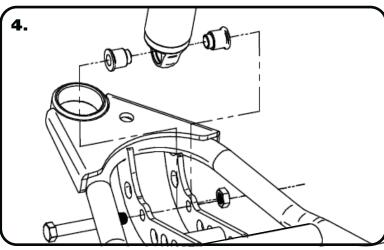
Congratulations on your purchase of the Ridetech F-Body StrongArms. These StrongArms have been designed to give your F-Body excellent handling along with a lifetime of enjoyment. Some of the key features of the StrongArms: Ball joint angles have been optimized for the lowered ride height, Delrin bushings are used to eliminate bushing deflection along with providing free suspension movement through the entire travel. The Delrin bushings are made from a material that is self lubricating so no grease zerks are needed.

Note: These control arms are designed for use with the Ridetech CoilOvers or ShockWaves. **The factory shocks and springs will not fit these arms.**

Installation

- **1.** Remove the entire lower control arms from the car. If you are replacing the upper control arms and spindle, remove them too. Refer to a Factory Service Manual for the proper method.
- 2. Drill the factory upper shock mounting hole to 3/4". This can be done easily with a Unibit.





3. After removing the factory lower control arm, clean the bushing mounting surfaces on the frame. The control arms are marked "D" for driver and "P" for passenger. The ball joint pin points up and the Sway bar mount is on the front side of the arm. Fasten the lower arm to the frame with the hardware supplied. There are two different size bushing sleeves supplied 1/2" and 9/16". '71-'74 model years will use 1/2". '75-'81 will use 9/16". Torque to 75 ft-lbs.

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

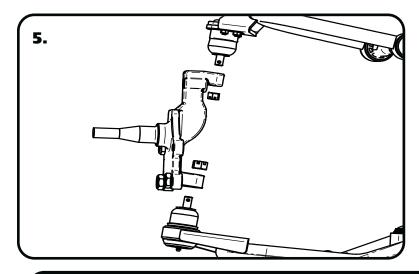
Install the CoilOvers at this time. Refer to the CoilOver instructions for assembly.

4. Insert the bearing spacers into the lower shock bearing. The SMALL end goes into the bearing. Swing the control arm up, line up the 1/2" holes with the bearing spacers, insert 1/2"-20 x 3 1/2" bolt. Install a 1/2" flat washer and nylok nut. Torque to 75 ft-lbs.





Installation



5. Attach the spindle to the control arms. The spindle is the same for driver and passenger.

Torque Specs:

Lower ball joint - 65 ftlbs and tighten to line up cotter pin.

Finishing

6. Tighten all fasteners. If you are going to install the Ridetech MuscleBar, now is a good time to do it.

Suggested Alignment Specs:

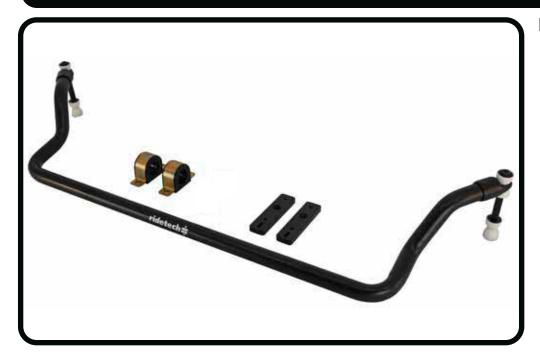
Camber: Street: -.5 degrees

Caster: Street: +3.0 to + 5.0 degrees
Toe: Street: 1/16" to 1/8" toe in





Part # 11179120 - 1970-1981 GM F-Body Front SwayBar



Recommended Tools





1970-1981 GM F-Body Front SwayBar Installation Instructions

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Page 17..... SwayBar Installation

Hardware Torque Specifications

5/16"-16...... 17 ftlbs 3/8"-16...... 30 ftlbs



Major ComponentsIn the box

	Part #	Description	QTY
	90001226	Front Sway Bar	1
	90002936	End Link Kit	1
	90001346	Bushing Strap	2
Γ	70015015	Lined Sway Bar Bushing	2
Γ	90001254	Bushing Mount Adapter	2

HARDWARE KIT.....99010083

QTY	Part Number	Description
ADAP	TER PLATE	
2	99371032	3/8"-16 x 1 1/4" Flat Head
2	99311025	5/16"-18 x 1 1/4" Flat Head
2	99371005	3/8"-16 x 1 1/4" Hex Bolt
2	99311011	5/16"-18 x 1 1/4" Hex Bolt
2	99373002	3/8" Flat Washer
2	99313001	5/16" SAE Flat Washer
2	99373006	3/8" Split Lock Washer
2	99313003	5/16" Split Lock Washer
1	90002263	Red Loctite

QTY	Part Number	Description
BUSHING STRAP		
4	99371065	3/8"-16 x 3/4" Hex Bolt
4	99373002	3/8" Flat Washer
4	99373006	3/8" Split Lock Washer

Getting Started.....

Note: This sway bar kit utilizes a anti-friction lining in the sway bar bushing. The lining allows the sway bar to move freely and quietly in the bushing. No lubrication is required.

Note: The threaded holes in the frame can be either 5/16"-18 or 3/8"-16. Hardware is supplied for both.

- 1. Jack the vehicle up to a safe working height and support with jack stands. Make sure the jack stands are stable before working under the car.
- 2. Remove the stock sway bar.
- 3. After removing the stock sway bar, determine what size hardware the frame will require.



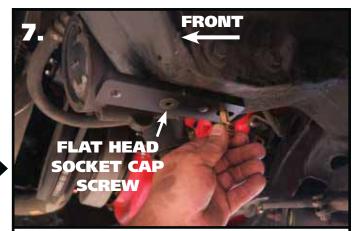
4. Open the sway bar bushing at the split and slip it **OVER** the sway bar. Do this for both bushings.



6. Slip the Bushing Straps over the Sway Bar Bushings.



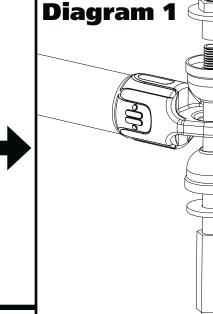
6. This kit contains an adpater plate to attach the sway bar to the frame. Depending on the year of the car, the hardware size can vary. Before continuing to the next step, you will need to determine the bolt size required for your installation. The threaded holes in the frame can be either 5/16"-18 or 3/8"-16. Hardware is supplied for both.



7. Hold the Frame Plate up to the OEM holes, the Counter Sunk hole will he positioned over the front hole with the slot to the rear. Apply Red Loctite to the Flat Head Bolt. The rear 1 1/4" long bolt uses a Split Washer and Flat Washer. Torque Hardware.

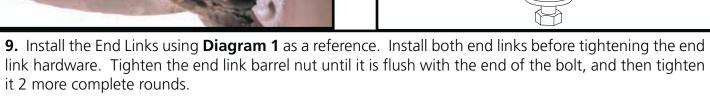


8. Slide the SwayBar into position on the car with the SwayBar arms above the tie rods. Install a 3/8" Lock Washer & 3/8" Flat Washer on the 3/8"x 3/4" Hex Bolts. Do **NOT** Complete tighten the Hardware, it will be left partially loose until the End Links are installed.



Control Arm



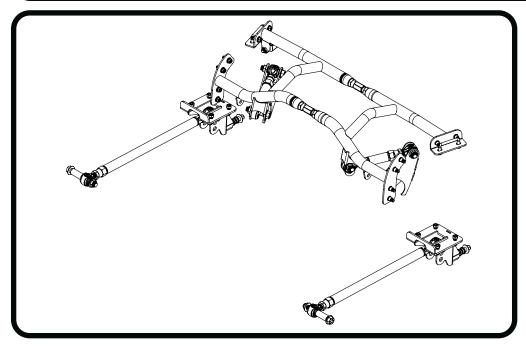


10. Torque the SwayBar mounting hardware to 30 ftlbs.





Part # 11177187 -1970-1981 GM "F" Body Rear Bolt-in 4 Link



Recommended Tools





1970-1981 GM "F" Body Rear Bolt-in 4-Link

Installation Instructions

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Major ComponentsIn the box

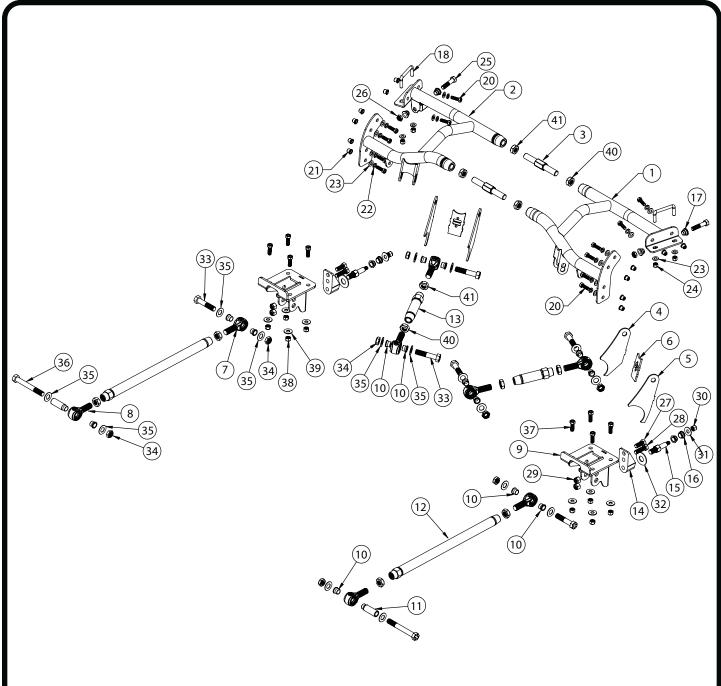
Item #	Part #	Description	QTY
1	90003497	70-81 F-Body Rear Cradle - Driver	1
2	90003498	70-81 F-Body Rear Cradle - Passenger	1
3	70015662	Cradle Threaded Adjuster	2
4	70016351	Upper Axle Tab - Inner	2
5	70016352	Upper Axle Tab - Outer	2
6	70016353	Upper Axle Tab - Backer	2
7	90001318	R-Joint 3/4-16 RH x 5/8 Bolt	4
8	90001319	R-Joint 3/4-16 LH x 5/8 Bolt	4
9	90003503	Lower Axle Mount	2
10	70013334	R-Joint Spacer - 5/8" ID x .620"	14
11	70013537	5/8 R Joint Spacer .625 ID x 2.843"	2
12	90003499	Lower 4-Link Bar	2
13	90002815	Upper 4-Link Bar	2
14	90001624	Aluminum Lower Shock Mount	2
15	70002825	Lower Shock Stud	2
16	90002067	Lower Shock Spacers625" I.D. x .450"	4
17	90002043	Upper Shock Spacers500" ID x .365"	4
18	90002285	Square U-Bolt	2
	85000008	3/8" Riv-Nut Installation Tool	1
	70010694	Bar Tab Setting Jig	2
	99371050	3/8-16 X 1 1/2 HX 1.12 CONI	6
	99372009	3/8"-16 U-Nuts09020 Panel Thickness	6
	99010218	Hardware Kit: 70-81 F-Body 4-Link	1

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Major ComponentsIn the box



New R-Joints will be quite stiff (75-90 in/lbs breakaway torque) until they "break in" after a few miles of use. After the break in period they will move much more freely. Because the composite bearing race contains self lubricating ingredients, no additional lubrication is needed or desired. Any additional lubrication will only serve to attract more dirt and debris to the R-Joint and actually shorten its life.





Hardware ListIn the box (Kit# 99010218)

The Hardware Kit contains bags to help aid in selecting the correct hardware for the component being installed. The hardware list shows how the hardware is bagged.

Item #	QTY	Part Number	Description	Item #	QTY	Part Number	Description
	CRADLE TO FRAME			UPPER 4 LINK BARS		ARS	
19	1	85000007	17/32" Drill Bit	33	4	99621004	5/8"-18 x 3" Gr. 8 Bolt
20	12	99371005	3/8"-16 x 1 1/4" Hex Bolt	34	4	99622006	5/8"-18 Thin Nylok Nut
21	12	99372007	3/8"-16 Riv-Nut	35	8	99623001	5/8" SAE Flat Washer Gr. 8
22	12	99373006	3/8" Split Lock Washer		1	90002276	Anti-Seize
23	12	99373002	3/8" SAE Flat Washer GR 8		LOW	ER 4 LINK B	ARS
	1	90002276	Anti-Seize	33	2	99621004	5/8"-18 x 3" Gr. 8 Bolt
	CRAI	DLE U-BOLTS		34	4	99622006	5/8"-18 Thin Nylok Nut
23	4	99373002	3/8" SAE Flat Washer GR 8	35	8	99623001	5/8" SAE Flat Washer Gr. 8
24	4	99372001	3/8"-16 Nylok Nut	36	2	99621007	5/8"-18 x 5" Gr. 8 Bolt
	UPP	ER SHOCK M	OUNTING		1	90002276	Anti-Seize
25	2	99501010	1/2"-20 x 2 1/4" Gr. 8 Bolt		LOW	ER BAR MO	UNT TO AXLE
26	2	99502003	1/2"-20 Thin Nylok Nut	37	8	99431006	7/16"-20 x 1 1/4" Hex Bolt
	LOW	ER SHOCK N	IOUNT	38	8	99432007	7/16" - 20 Nylok Nut
27	2	99501007	1/2"-20 x 1 1/4" Hex Bolt	39	8	99433002	7/16" SAE Flat washer
28	2	99501009	1/2"-20 x 1 3/4" Hex Bolt		RIGH	IT HAND & I	EFT HAND JAM NUTS
29	4	99502002	1/2"-20 Nylok Nut	40	6	99752004	3/4"-16 Jam Nut RH
	SHO	CK STUD		41	6	99752006	3/4"-16 Jam Nut LH
30	2	99432002	7/16"-20 Nylok Nut		BAR	SETTING JIC	G
31	2	99433002	7/16" SAE Flat Washer		2	99371001	3/8"-16 x 3/4" Hex Bolt
32	2	99623004	5/8" SAE Flat Washer		2	99372004	3/8"-16 Hex Nut

Getting Started.....

Congratulations on your purchase of the Ridetech Rear 4-link System. This system has been designed to give your Camaro excellent handling along with a lifetime of enjoyment. This kit replaces the Leaf Springs, this allows the 4-Link to locate the rearend and the CoilOvers/ShockWaves to support the car. This allows each to be optimized for the best performance.

Note: These system is designed for use with the Ridetech Shockwaves or CoilOvers and the Ridetech Rear Sway Bar. **The factory shocks and springs will not fit this setup.**

1. Raise the vehicle to a safe and comfortable working height. Use jack stands to support the vehicle with the suspension hanging freely.





Disassembly

2. Support the axle and remove the leaf springs, shocks, and tail pipes. If your car is equipped with a rear sway bar, it will also need to be removed. Refer to the factory service manual for proper disassembly procedures. The rear brake line will need to be detached from the body. You will need to bleed the rear brakes after the installation is complete. You may need to redo the brake lines that are on the differential.

The following steps show the removal of brackets, these can vary depending on the year of the car. Some years do NOT have some of the brackets shown. If your car doesn't have the particular bracket shown in a step, skip to the next step.



3. Cut the corner braces off that are located above the axle where the frame rail drops down. **Depending on the year of your car, it may not be equipped with these braces.** These can be removed by drilling the spot welds or cutting them of flush with the tabs, but we recommend drilling the spot welds.



4. Drilling the spot welds of the tabs will ensure a tighter fit of the cradle.





Disassembly & Cradle Assembly



5. If your car has this style of exhaust bracket behind the axle, they will need to be cut off. Again, this can be done by drilling the spot welds or cutting off flush with the tabs. The early cars have a different style of mount that doesn't need to be cut off.



6. Unbolt the pinion snubber and remove it.



7. The upper cradle is adjustable to compensate for different frame rail widths found on the 70-81 Camaro. The cradle will need to be assembled before installing it in the car.





Cradle Assembly



8. The center adjuster has Right Hand Threads on one side, Left Hand Threads on the other side. This allows the cradle to be adjusted in the car. Install the jam nuts on the adjusters.



9. Apply anti-seize to the end of the threads of the adjusters. We run about a 3/8" strip on them.



10. The driver side of the cradle is Left Hand Threads, the passenger side is Right Hand Threads. Start the adjusters into opposite sides of the cradle, inserting them in approximately 2 revolutions.





Cradle Assembly



11. The gap between the cradle halves is 1/4" shorter on the front tube than the rear tube. This allows the adjusters to be started at different times. Start the front adjuster into the opposite half of the cradle. Thread it in until the second adjuster is starting to hit the end of the threads of the thread bung.



12. Start the 2nd adjuster into the cradle. You may have to loosen or tighten the 1st adjuster to get the 2nd started.



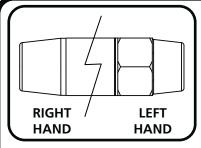
13. With both adjusters started. Thread them in evenly until the cradle is narrow enough to fit in your car. The gaps between the front and rear adjusters should be approximately 1/4" difference with the gap of the front tube being the lesser of the two. If and adjuster starts getting tight to turn, switch to the opposite adjuster until it starts getting tight. Go back and forth between the 2 to achieve a width the will fit your car.

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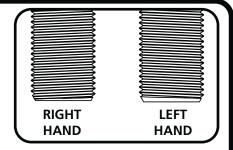
Installation Instructions



R-Joint Bar Assembly







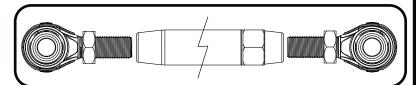
THE 4-LINK BARS, R-JOINTS, AND JAM NUTS HAVE RIGHT HAND AND LEFT HAND THREADS. THIS ALLOWS THE BAR TO BE ADJUSTED WITHOUT REMOVING IT. THE HEX END OF THE BAR IS LEFT HAND THREAD. THE LEFT HAND JAM NUT HAS AN COUNTER-CLOCKWISE ARROW STAMPED INTO IT. IMAGE 3 WILL HELP YOU DETERMINE THE THREADS OF THE R-JOINTS.

14a. Component List:

- 1. 4-Link Bar
- 2. Right Hand Thread R-joint
- 3. Right Hand Thread Jam Nut
- 4. Left Hand Thread R-Joint
- 5. Left Hand Thread Jam Nut

14b. Thread the jam nuts onto the threaded shank of the r-joints. Thread the nuts all the way on to the r-joint.

2 3 1 5 4 RIGHT HAND LEFT HAND



14c. Apply anti-seize to the threads of the r-joint. This will prevent the threads from galling.

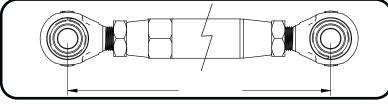


14d. Thread the r-joints into the 4-link bar. Thread them in evenly until you achieve the correct center to center length.

Upper Bar Length: 9 1/4" Lower Bar Length: 24 1/4"

Nominal R-Joint Threads Exposed: 1/4" Maximum R-Joint Threads Exposed: 5/8"

14e. After getting one bar length set, you can put a 5/8" bolt through the r-joints to simplify setting the next bar. Adjust the bar length of the 2nd bar until it will slip on and off the bolts. Torque the jam nuts 65-75 ft-lbs using an 1 1/8" crows foot on a torque wrench.





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Installation Instructions



Cradle Installation







NOTE: Steps 15-18 cover the installation of the cradle. The front flanges of the cradle are parallel with each other, the rear mounts are tapered. With the front mounts fitting snug against the inside frame rails, the taper of the rear mounts will help position the cradle in the car.

TIP: You can use a tape measure to get the cradle close before putting it in the car. Measure the inside width of the frame rails in the area where the front mounts will be positioned. Evenly adjust the center adjusters to get the front mounts of the cradle close to this width measurement.

15. Insert the cradle into the car, but don't slide it all the way forward yet. Fine tune the adjusters to get the front flanges snug in the frame rails. Setting the front width will get the rear cradle mounts fairly close to the correct width too. When you get the front snug, push the cradle forward until the rear mounts are snug in the frame. The vertical surface of the rear mount will be fairly snug against the frame rails with the horizontal tabs sitting against the bottom of the frame rail.

NOTE: It is not uncommon for the front upper bar mounts to touch the floor pan.

16 & 17. Adjust the center adjusters evenly until the cradle gets tight against the frame. You will to need to adjust the front and rear evenly until it fits tight. Again, the horizontal tab on the rear section of the cradle will fit against the bottom of the frame and the vertical surface should be snug against the frame rails.

NOTE: You will need to alternate between the adjusters to get them adjusted out evenly.





Cradle Installation



18. Image 18 shows the cradle in place. When it is snug against the frame, it will hold in place by itself.



19a. Use the frame plates as a template to drill the holes in the bottom of the frame rails. Use a 7/16" drill bit to drill the holes. Drill the slotted hole in the center of the slots.



19b. It might be necessary to elongate the holes a little to get the u-bolt inserted.





Cradle Installation



20. Feed one end of the u-bolt through the round hole of the pair of holes, using the other end of the u-bolt as a handle. You need to get the end of the u-bolt that you are using as a handle fed in until it is past the 90 degree bend to be able to drop the other end through the drilled hole. If the u-bolt will not line up with the drilled holes, it may be necessary to slot the frame hole in the slotted hole of the frame mount.



21. The other leg of the u-bolt needs to drop through the opposite hole of the hole you are inserting the u-bolt in.



22. Install (1) 3/8" flat washer and (1) 3/8"-16 nylok nut onto each stud sticking through the cradle. Do not tighten them until all washers and nuts are installed. Tighten each leg of the u-bolt evenly. Torque to 30 ftlbs. Do this for all (4) u-bolts..





Riv-nut® Installation & Specs

- **1.** Drill Hole in Frame using the SUPPLIED DRILL BIT keeping the Drill square with the metal.
- 2. We recommend installing (2) 3/8" Flat Washers between the bolt head and the lower anvil of the installation tool. Thread a Riv-nut® onto the supplied Tool. Thread the Riv-nut all the way onto the Tool until it stops.
- **3.** Insert the Tool and Riv-nut_® into the drilled hole 90° to the Frame Rail.
- **4.** The Tool requires (1) 9/16" & (1) 5/8" Wrenches to use. A Ratchet can be used on the top of the Tool.

KEEP THE TOOL AND RIV-NUT 90° TO THE SURFACE WHILE TIGHTENING

- **5.** Put a 5/8" Wrench on the Lower Hex of the tool. Use a 9/16" Wrench or Ratchet on the Top hex to Tighten.
- **6.** Hold the Wrench in one position and turn the TOP HEX CLOCKWISE to engage the Riv-nut®. Keep Turning the TOP WRENCH until you feel a positive stop and you can't turn the TOP WRENCH anymore.
- **7.** Break the Tool loose by turning the TOP HEX counterclockwise and thread the Tool out of the Riv-nut®

THE DATA BELOW ILLUSTRATES THE STRENGTH OF THE **RIV-NUT**®

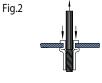
RIVNUT Fastener Engineering Data

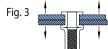
Upset Load (lbs.)				
DIVALUT * C:	Ste	eel		
RIVNUT * Size	Min. Grip	Max. Grip		
3/8-16	4965	5325		



Ultimate thread strength (lbs.)			
DIVALLET + C:	Steel		
RIVNUT * Size	Min. Grip	Max. Grip	
3/8-16	11500	10450	

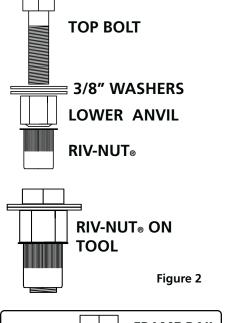
Ultimate tensile strength (lbs.)		
RIVNUT * Size	Steel	
3/8-16	3900	

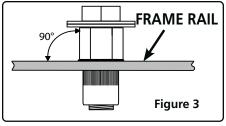


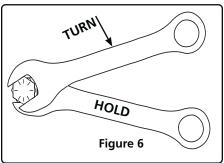


Single Shear Strength 3/8" Grade 5 Bolt 3.975.8 lbs

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Cradle Installation



23. Mark the holes in the frame for the vertical mounting plates. There are 4 holes in the front plate, 2 holes in the rear plate. Do this for both sides. The cradle will now need to be removed to install the Riv-nuts.



24. The holes for the Riv-nuts NEED to be drilled with the supplied 17/32" drill bit. We suggest drilling the holes with a smaller drill bit first to make it easier to drill with the 17/32" drill bit. Drill all (12) holes in the sides of the frame rails.



25. Install the Riv-nuts in the sides of the frame rails. **Refer to the Riv-nut installation instructions on PAGE 13 for proper Riv-nut installation. Image 25** illustrates a Riv-nut being installed. Install all (12) Riv-nuts in the frame rails.





Cradle Installation



26. Reinstall the cradle in the car. Reinstall the 3/8" hardware on the u-bolts. Do not tighten them until all washers and nuts are installed. Tighten each leg of the u-bolt evenly. Torque to 30 ftlbs. Do this for all (4) u-bolts.



27. Install a 3/8" split lock washer, and a 3/8" flat washer on each of (16) 3/8"-16 x 1 1/4" hex bolts. Thread a bolt/washer in to each of the Riv-nuts installed in the frame rails. Install all 12 bolts/washers before tightening any of the bolts. Torque the bolts to 23 ftlbs.



28. Tighten the adjuster jam nuts against the tubes of the cradle.





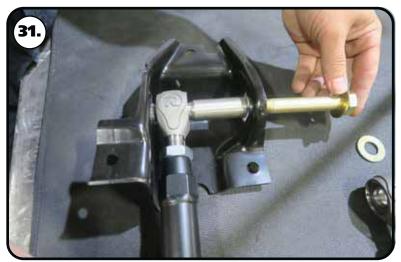
Installing Lower Bars



29. Drill the front leaf spring mounting holes to 5/8".



30. Check the length of the lower bar; it should be 24 1/4" center to center. The R-joint setup is designed to be offset to the inside of the car. The R-joint uses a .620" spacer (70013334) on the inside with a 2.593" long spacer (70013537) on the outside. Insert the small OD of the spacer into the r-joint center ball. Push the spacers in until they bottom out in the center ball.



31. Align the r-joint/spacers with the 5/8" hole. Install a 5/8" flat washer on a 5/8"-18 x 5" hex bolt. Install the bolt/washer in the aligned holes. **The bolt needs to be installed in the same orientation as Image 31.**





Installing Lower Bars & Axle Mount



32. Install a 5/8" flat washer and 5/8"-18 thin nylok nut on the threads of the bolt. Tighten the bolt/nut enough to eliminate any gaps.



33. Attach the lower bar/mount assembly to the car. New 3/18"-16 u-nuts and 3/8-16" x 1 1/2" conical body Bolts are supplied in the kit. Install the u-nuts in place of the OEM u-nuts. Hold the assembly in place lining up the holes with the u-nuts. There is a tab bent up on the mount that indexes into a hole in the body. Make sure the tab is indexed into the alignment hole. Torque the mounting bolts to 30 ft-lbs.



34. The lower axle bracket will be fastened to the leaf spring pad using the factory T-bolts/U-bolts or the supplied 7/16"-20 x 1 1/4" hex bolts. Align the mounting holes of the axle mount with the hardware sticking through the OEM leaf spring mount. Install a 7/16" flat washer & 7/16"-20 nylok nut on the threads sticking through the axle mount. Torque the nuts to 55 ft-lbs. Install both axle mounts.





Installing Lower Shock Mount & Lower Bars



35. The lower shock mount attaches with (1) 1/2"-20 x 1 1/4" hex bolt, (1) 1/2"-20 x 1 3/4" hex bolt, & (2) 1/2"-20 nylok nuts. The lower mount gets attached to the 2nd and 3rd hole up from the bottom of the axle mount. When the shock mount is installed correctly, the bottom of the lower shock mount is 1/8" below the bottom of the axle mount.



36. Insert the bolts through the aluminum shock mount with the 1 1/4" long bolt in the top bolt, 1 3/4" in the bottom hole. Insert the bolts through the axle mount and install the nylok nuts on the threads sticking through. Repeat on both sides and torque the bolts/nuts to 75 ft-lbs.



37. The R-joint uses a .620" spacer (70013334) on each side. Insert the small OD of the spacer into the r-joint center ball. Push the spacers in until they bottom out in the center ball.





Installing Lower Bars



38. Align the R-joint with the **TOP** hole of the axle mount. Install a 5/8" flat washer on a 5/8"-18 x 3" hex bolt.



39. Insert the bolt/washer through the axle mount/bar.

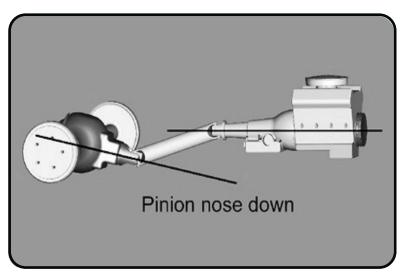


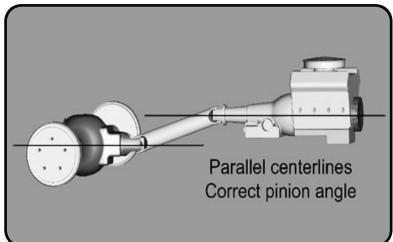
40. Install a 5/8" flat washer and 5/8"-16 thin nylok nut on the threads of the bolt. Do this for both sides. Tighten the bolt/nut enough to eliminate any gaps.

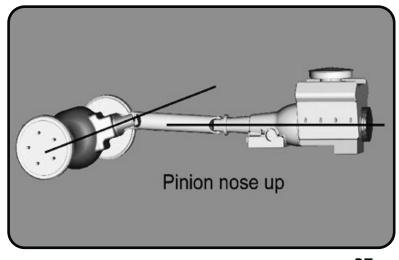




Setting Pinion Angle







READ PAGES 20-23 ON SETTING PINION ANGLES, UPPER BAR TAB JIG INSTALLATION, & SETTING RIDE HEIGHT.

How do you set the pinion angle? On a singlepiece shaft you want to set it up where a line drawn through the center of the engine crankshaft or output shaft of the transmission and a line drawn through the center of the pinion are parallel to each other but not the same line.

Your transmission angle should be around 3 degrees down in the rear. If it is more or less than 3 degrees, you might want to consider changing it. Too little angle on the transmission reduces the amount of oil getting to the rear bushing. Too much transmission angle will increase the working angles of the u-joints which will increase the wear. With the transmission at 3 degrees down in the rear, you will want to set the pinion 3 degrees up in the front.

A simple way to do this is to place a digital angle finder or dial level on the front face of the lower engine pulley or harmonic balancer. This will give you a reading that is 90 degrees to the crank or output shaft unless you have real problems with your balancer. At the other end, you can place the same level or angle finder against the front face of the pinion yoke that is also at 90 degrees to the centerline. If you rotate the yoke up or down so both angles match, you have perfect alignment.

Road testing will tell you if you have it right. If you accelerate and you get or increase a vibration, then the pinion yoke is too HIGH. Rotate it downward in small increments of a degree or two until the problem goes away. If you get or increase a vibration when decelerating, then the pinion yoke is too LOW. Rotate it upward to correct it.

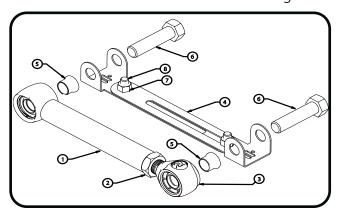




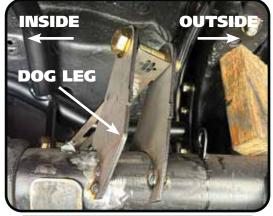
Upper Bar Tab Installation Jig

Upper Bar Installation Jig

- This jig has been supplied to aid in the installation of the upper 4 link bar. It can be temporarily used to properly align, locate and weld the tabs onto the axle. It will also ensure that the mounting bolts are parallel to the ground.
- Follow the diagram below to set the jig to the same length as the upper bar, use the 3/8" x 3/4" bolt and nuts to set the length.
- Position the axle at ride height. Center the axle left to right between the quarter panels. Set pinion angle.
- Bolt one end of the jig to the cradle using a 5/8" x 3" bolt.
- Using another 5/8" x 3" bolt, fasten the axle tabs to the other end. The inner tabs will get bolted to the jig tab with the dog legged edge to the rear. The outer tab will have the long straight edge rearward. The tabs must be bolted to the outside of the jig. Both tabs should have the tab backer locating tabs to the rear of the car.
- Swing the bar down letting the tabs rest onto the axle. Trim the brackets as necessary to minimize the gap to be welded.
- Check pinion angle, ride height and axle center. Tack-weld the tab assemblies in place on the axle.
- Remove jig and install upper bar.
- Repeat this process for the other side.
- Recheck pinion angle, ride height and axle center. (Sound familiar?)
- After the tabs have been tack welded on both sides, remove the setting jig. Let the axle drop down for better access to the tabs. Lay 1" welds on the inside and outside of the tabs. Skip around from one side to the other to avoid overheating the tube.



ltem#	Description
1	Upper Bar
2	3/4"-16 Jam Nut
3	R-Joint End
4	Alignment Jig
5	Aluminum Spacer
6	5/8" x 2 3/4" Bolt
7	3/8"-16 Nut
8	3/8"-16 x 3/4" Bolt









Installing Upper Bars Tabs



41. One helpful trick to help maintain ride height and pinion angle while adjusting is to tack weld a spacer between the axle and the outside of the frame as shown in the picture. This spacer should be 5 1/2" tall giving the CoilOver/Shockwave an eye-to-eye measurement of approximately 14 1/2". When measuring the axle center you can measure off of the frame rails. We also use a plum bob off the quarter panels to double check the axle center. Refer to **Page 20** on setting the pinion angle.



42. Check the length of the upper bar; it should be 9 1/4" center to center. Bolt the axle tabs to the setting jig as specified on the previous page. Next, place the other end into the cradle. Both ends use a 5/8" x 3" and should not be fully tightened yet. For now just the let axle tabs sit on the axle.



43. Check the fitment of the tabs to the axle.





Installing Upper Bars Tabs & Bars



44. Put the tab back brace in position. The curve of the brace should be up. The 2 tabs on each side of the brace need to be positioned on each side of the tab on the REAR of the axle tabs. Tack weld everything in place and repeat for the other set of axle tabs. After the tabs have been tack welded on both sides, remove the setting jig. Let the axle drop down for better access to the tabs. Lay 1" welds on the inside and outside of the tabs. Skip around from one side to the other to avoid overheating the tube.



45. The R-joint uses a .620" spacer (70013334) on each side. Insert the small OD of the spacer into the r-joint center ball. Push the spacers in until they bottom out in the center ball. Do this for both ends of the upper bar.



46. The upper bar mount that is made into the cradle has 2 mounting positions. **THE STANDARD MOUNTING POSITION IS THE BOTTOM HOLE**. Insert the front of the upper bar in the BOTTOM hole of the upper bar mounting. Install a 5/8" flat washer on a 5/8"-18 x 3" hex bolt. Insert the bolt/washer in the aligned holes. Install a 5/8" flat washer and 5/8"-18 nylok nut on the bolt. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.

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Installing Upper Bars



47. Verify the spacers are installed in the R-Joints of the upper bars.



48. Insert the R-Joint into the upper bar mount of the rear differential. Install a 5/8" Flat Washer on to a 5/8"-16 x 3" hex bolt. Line up the holes in the axle tabs with the through hole of the R-Joint, insert the bolt/washer.

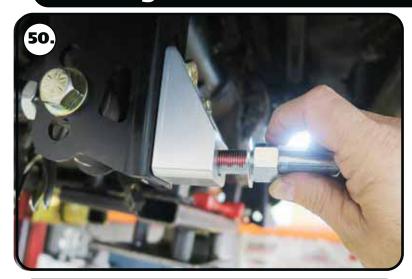


49. Install a 5/8" flat washer followed by a 5/8"-18 thin jam nylok nut. Repeat on both sides and tighten the bolts/nuts enough to eliminate any gaps.





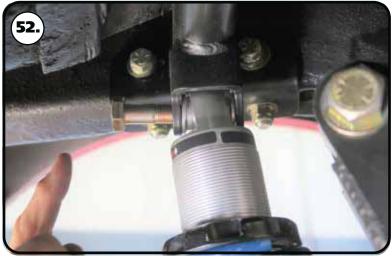
Installing Lower Shock Stud & CoilOvers/ShockWaves



50. Installing the shock stud into the lower mount. Install a 5/8" flat washer onto the 5/8"-18 threads of the shock stud. Apply Red Loctite to the 5/8" threads of the stud. Thread the shock stud into the threaded hole of the lower mount. Repeat on both sides and torque the shock stud to 65-75 ftlbs.



51. Ridetech CoilOvers or ShockWaves require a spacer on each side of the bearing. The upper crossmember uses a 1/2" ID spacer that is .605" long (90002043). The overall width with a spacer on each side will be 1 1/4". **The small OD of the spacer will insert into the shock bearing.**



52. Insert the 1/2" ID shock bearing spacer into each side of the ShockWave/CoilOver bearing. If installing ShockWaves, insert the top of the shock into the shock mount on the upper crossmember with the adjusting knob to the inside. If installing CoilOver, insert the bottom of the shock into the shock mount on the upper crossmember. Line up the holes in the upper shock mount with the spacers and shock bearing. Install a 1/2"-20 x 2 1/4" Hex Bolt into the lined up holes. Install a 1/2"-20 thin jam nylok nut. Torque to 22 ft-lbs.

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Installing CoilOvers/ShockWaves



53. The shock stud requires spacers that are 5/8" ID x .400" long (90002067). Install a 90002067 spacer **(Small side towards shock body)** onto the lower Shock Stud.



54. Slide the bottom of the shock onto the stud. Install a second 5/8" ID 90002067 spacer onto the Stud **(small side towards shock)**. You may need to jack the rearend up to slide the shock onto the stud. Install the 7/16" flat washer and 7/16" nylok nut. Tighten the upper and lower shock bolts. Torque the lower nut to 40 ftlbs. The designed ride height of the CoilOver/Shockwave is 14 1/2" center to center.

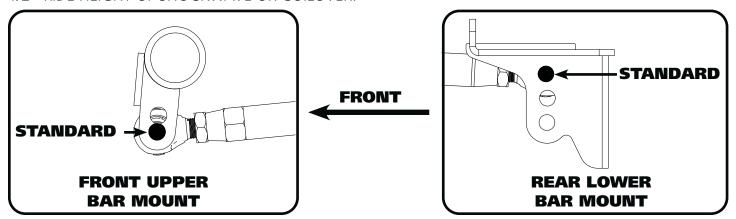




Anti Squat Adjustment

The Upper Bar Mounts and Lower Axle Mounts are designed with adjustable Anti Squat. Anti Squat reduces the amount the rear suspension squats on acceleration. Anti Squat is measured in a percentage, the higher the percentage of anti squat the less the rear of the car squats. Reducing the rear squat keeps the rear suspension from compressing as much therefor reducing the amount the front suspension extends. This will help keep the suspension geometry in it's optimized range. Anti squat uses the mechanics of the rear suspension to reduce squat rather than the shocks and springs. It uses the same mechanics to help put weight to the rear tires during acceleration. Several factors effect the amount of anti squat a car needs; horsepower, tires, vehicle weight, and track surface are some of the main ones. You can use the different settings in this suspension to help dial in your car's handling. Keep in mind, the higher the rear squat percentage the less effective the rear tires will be under hard braking for corner entry.

We control the Anti squat percentage by raising and lowering the front of the upper bar and rear of the lower bar. The standard position is approximately 55% Anti Squat at the designed ride height. We have found this to be a good starting point and a great setting for driving. Keep in mind, your ride height will affect the anti squat percentage and instant center. ALL OF THESE NUMBERS ARE BASED AROUND 14 1/2" RIDE HEIGHT OF SHOCKWAVE OR COILOVER.



ADJUSTMENT GUIDE

THE STANDARD SETTING IS WITH THE TOP BAR IN THE LOWER HOLE AND THE LOWER BAR IN THE TOP HOLE.

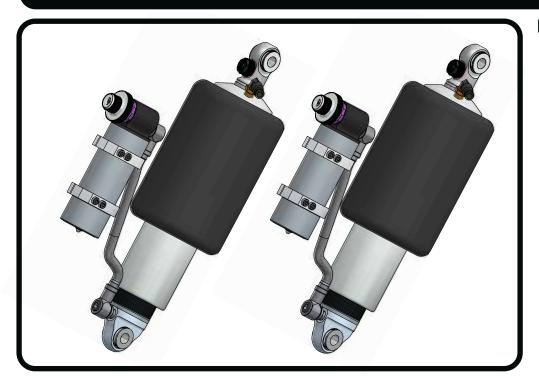
UPPER BAR POSITION	LOWER BAR POSITION	ANTI SQUAT % OF CHANGE FROM STANDARD SETTING	INSTANT CENTER CHANGE
TOP HOLE	TOP HOLE	WE RECOMMEND NOT USING THIS SETTING	
TOP HOLE	MIDDLE HOLE	0 %	+ 80"
TOP HOLE	BOTTOM	+ 30 %	+ 20"
BOTTOM HOLE	MIDDLE HOLE	+ 25 %	- 21"
BOTTOM HOLE	BOTTOM HOLE	+ 50 % *	- 32" *

^{*} This setting is recommended for straight line applications only. The steeper lower bar angle is not recommended for handling applications.





Part # 24350701 - 5.2" Stroke TQ Series Shockwave



Recommended Tools





7000 Series Bellow, Eye/Eye 5.2" Shock Installation Instructions

Table of contents

Page 46..... Included components

Page 47..... Notes and Care of Your Shockwave

Page 48-49...... Shock Adjustment

ShockWave Dimensions:

Center of bearing to Center of bearing:

Compressed: 11.85" Ride Height: 14.60" Extended: 16.42"

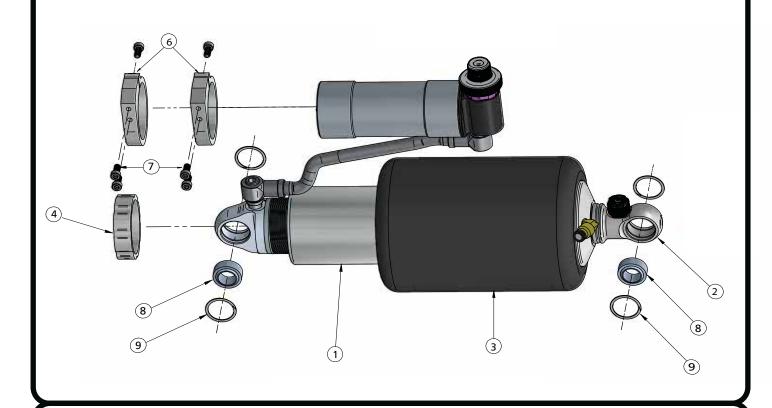






Major ComponentsIn the box

Item #	Part #	Description	QTY
1	986-10-072	5.2" Stroke TQ Series Shock	2
2	815-05-022	Shock Eyelet	2
3	24090799	7000 Series 4" Rolling Sleeve AirSpring	2
4	234-00-153	AirSpring Locking Ring (Installed on Shock)	2
	90002044	Spacer kit - 1/2" ID and 5/8" ID (Not Shown)	4
6	026-05-000	Reservoir Clamps	4
7	99050000	Reservoir Socket Head Cap Screws	12
8	90001994	5/8" ID Bearing (installed in shock and eyelet)	4
9	90001995	Bearing Snap Ring (installed in shock and eyelet)	8



WARNING: ATTEMPTING TO REMOVE THE AIR FITTING WILL DAMAGE IT AND VOID THE WARRANTY.





Notes and Care of your Shockwaves

NOTES:

WARNING: ATTEMPTING TO REMOVE THE AIR FITTING WILL DAMAGE IT AND VOID THE WARRANTY.

TIGHTENING THE TOP 9/16"-18 NUT: SNUG THE NUT DOWN AGAINST THE TOP CAP. YOU NEED TO BE ABLE TO ARTICULATE THE SHOCK BY HAND. WE TORQUE THE NUT TO 80 INLBS USING A 7/8" CROWS FOOT WRENCH ON A TORQUE WRENCH.

You can clock the airfitting location on the ShockWave by turning the AirSpring assembly of the shock. Make sure the fitting doesn't contact the frame.

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 AirSpring stroke with the shock stroke.

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 that 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 medium setting of 12.





-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 12 clicks. This sets the shock at 12. (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.

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.

Shock Adjustment 101-Triple Adjustable

Triple Adjustable:

Step One: High Speed Compression



- -High speed compression adjustments are used in both street driving and track tuning.
- -Begin with the shocks adjusted to the ZERO high speed compression position (full stiff). Do this by rotating the high speed compression adjuster (large knob) clockwise until it stops.
- -Now turn the high speed compression adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use. For typical street driving the high speed compression adjuster will remain at setting 20.





Shock Adjustment

Step Two: Low Speed Compression

Low speed compression adjustment is what is typically felt during street driving.



- -Begin with the shocks adjusted to the ZERO low speed compression position (full stiff). Do this by rotating the low speed compression adjuster (small knob) clockwise until it stops.
- -Now turn the low speed compression 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 low speed compression knob clock wise 3 clicks.

Take the vehicle for another test drive.



- -if the vehicle is too soft increase the damping effect by rotating the low speed compression knob clock wise 3 additional clicks.
- -If the vehicle is too stiff rotate the low speed compression 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.

Step 3:

Adjust rebound according to Single Adjustable instructions.

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.

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