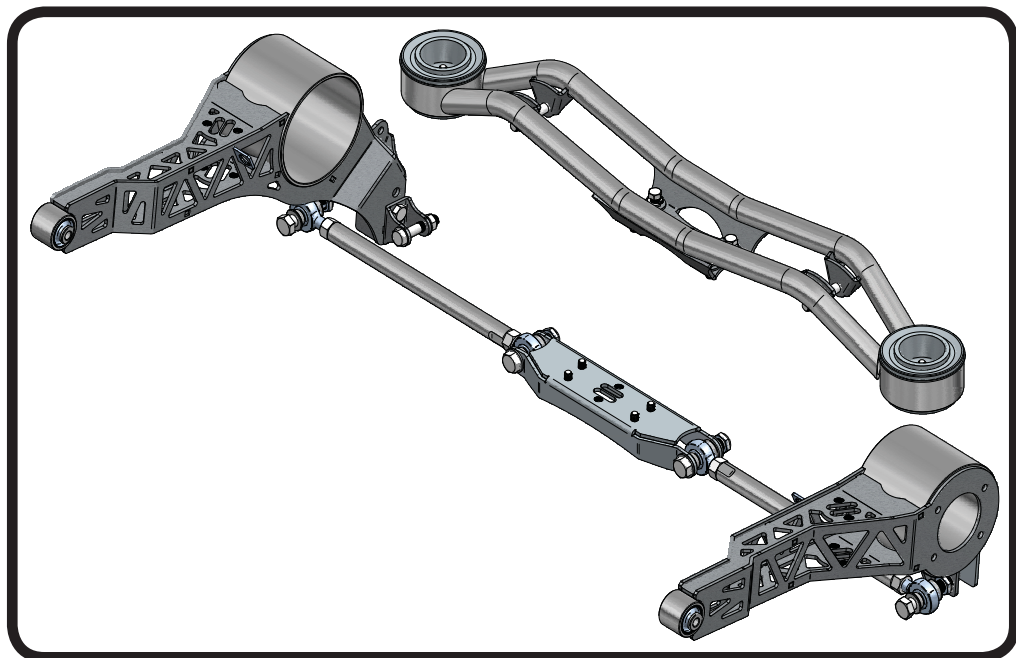
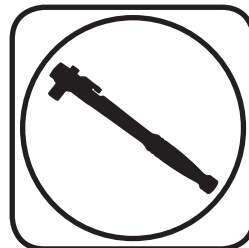
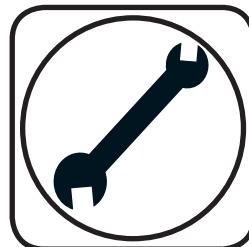




Part # 11527199 - 1963-1967 C2 Rear StrongArms



Recommended Tools



1963-1967 C2 Rear StrongArms Installation Instructions

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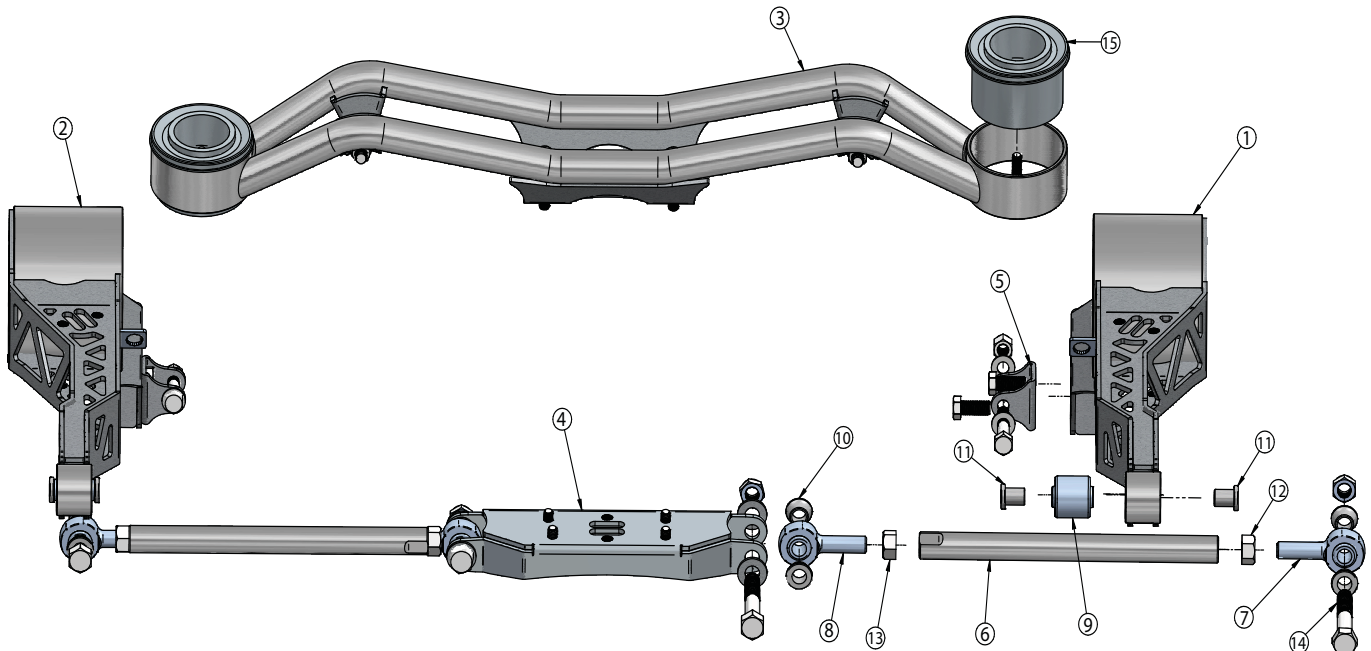
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Major ComponentsIn the box

Item #	Part #	Description	QTY
1	90002163	Driver Trailing Arm	1
2	90002164	Passenger Trailing Arm	1
3	90002165	Upper Crossmember	1
4	90002166	Strut Rod Mount	1
5	90002158	CoilOver Lower Mounting Bracket	2
6	90002167	Threaded Strut Rod (Set at 16 5/16" Center to Center)	2
7	90001590	Strut Rod Heim End 5/8"-18 RH Thread (Pre installed in Strut Rod)	2
8	90001582	Strut Rod Heim End 5/8"-18 LH Thread (Pre installed in Strut Rod)	2
9	90001942	Trailing Arm Rubber Bushing (Pre installed in Trailing Arms)	2
10	90002168	Strut Rod Spacers - 5/8" ID, 7/16" Thick	8
11	90002178	Trailing Arms Rubber Bushing T-bushings	4
12	99800002	5/8"-18 SAE RH Thread Jam Nut	2
13	99800003	5/8"-18 SAE LH Thread Jam Nut	2
14	90002175	5/8"-18 Flat Machine Bolt	2
15	70011824	Upper Crossmember Bushing (Pre installed in Crossmember)	2
	90002191	Trailing Arm Bushing Shim Kit (Not Shown)	1
	99375010	Trailing Arm Bearing Housing Studs- 3/8"-24	8





Hardware ListIn the box (Kit# 99010053)

QTY	Part Number	Description	
1	90002191	Shim Kit	Trailing Arm to Frame
2	99621003	5/8" x 2 3/4" Gr. 8 Bolt	Strut Rod to Strut Rod Mount
4	99622006	5/8" SAE Nylok Jam Nut	Strut Rod to Mounts
4	99623001	5/8" SAE Flatwasher	Strut Rod to Mounts
6	99431002	7/16" x 1 1/4" USS Bolt	Crossmember to Center Section & Frame
10	99433002	7/16" SAE Flatwasher	Crossmember to Center Section & Frame, Trailing Arm
8	99433003	7/16" Split Lock washer	Crossmember to Center Section & Frame, Trailing Arm
2	99431014	7/16" x 4 1/2" SAE Bolt	Trailing Arm to Frame
2	99432002	7/16" SAE Nylok Nut	Trailing Arm to Frame
4	99371003	3/8" x 1" USS Bolt	Strut Rod Mount to Center Section
4	99373005	3/8" Split Lock washer	Strut Rod Mount to Center Section
4	99373003	3/8" SAE Flatwasher	Strut Rod Mount to Center Section
8	99372005	3/8" SAE Nylok Nut	OEM Hub to Trailing Arm
4	99501003	1/2" x 2 1/2" USS Bolt	Shocks to Mounts
4	99501019	1/2" x 1 1/4" USS Bolt	Shock Mounts to Trailing Arms
4	99503001	1/2" SAE Flatwasher	Shocks to Mounts
8	99502001	1/2" USS Nylok Nut	Shock Mount to Trailing Arm & Shocks to Mounts

Getting Started.....

Congratulations on your purchase of the Ridetech Rear StrongArm System. This system has been designed to give your Corvette excellent handling along with a lifetime of enjoyment. Some of the key features of this system: Trailing arms are designed to give more tire clearance, adjustability of ride height and ride quality, excellent handling.

Note: These system is designed for use with the Ridetech CoilOvers and the MuscleBar swaybar. **The factory shocks and springs will not fit this system.**



Disassembly and Upper Crossmember Installation

1. Raise the vehicle to a safe and comfortable working height.
2. Disassemble the rear suspension using the factory service manual as a reference. You will need to remove the Traverse Leaf Spring, Shocks, Half Shafts, Trailing arms, Center Section, Upper Crossmember, and Strut Rod Bracket from the Center Section.

NOTE: Keep the shims for the Trailing Arm in order and marked from where they were removed.

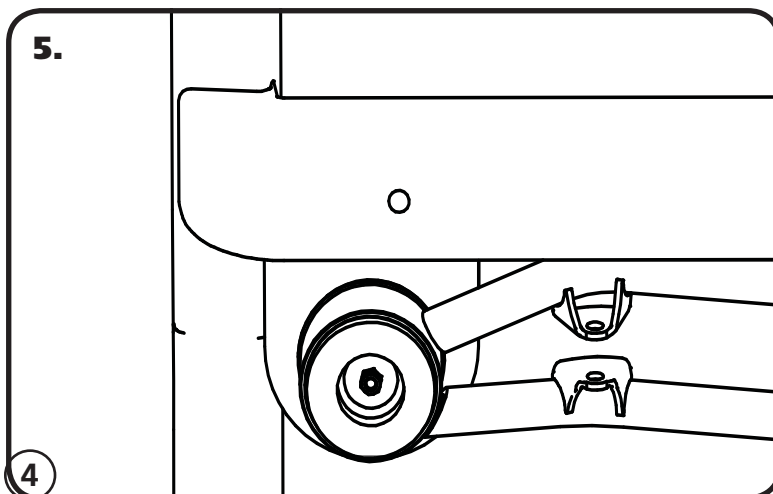
NOTE: You will need to disconnect the brake lines and parking brake cables(if equipped) on the OEM Brake Setup

3. With the rear suspension disassembled, remove the OEM Hub setup from the OEM Trailing Arms.

The OEM hubs will be used with the new Trailing Arms.



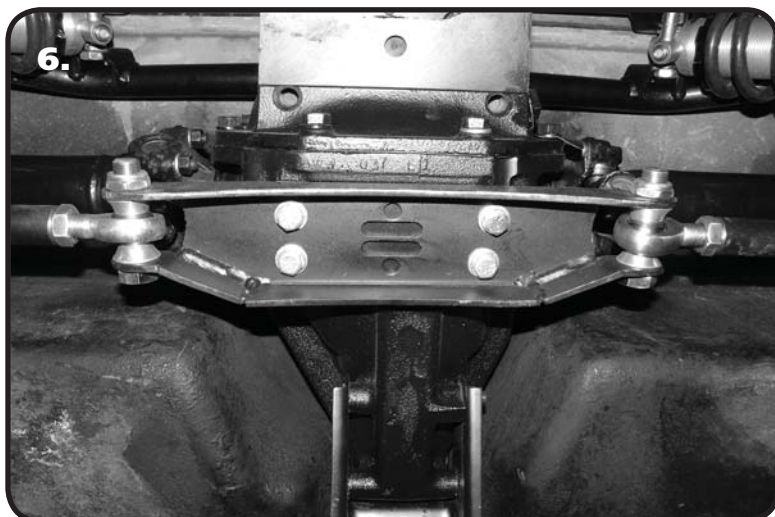
4. Attach the Upper Crossmember to the OEM Center Section using (4) 7/16"-14 x 1 1/4" Hex Bolts, (4) 7/16" Lock washers, and (4) 7/16" SAE Flatwashers.



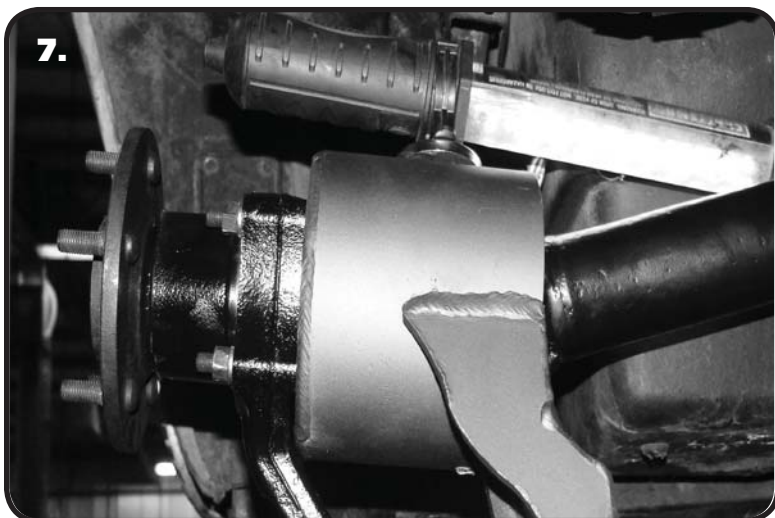
5. Install the Crossmember and Center Section into the car using (2) 7/16"-14 x 1 1/4" Hex Bolts, (2) 7/16" Lock washers, and (2) 7/16" SAE Flatwashers. With the Assembly installed in the car, reattach the U-joint and Front Center Section Support using the OEM hardware.



Strut Rod Bracket and Trailing Arm Installation

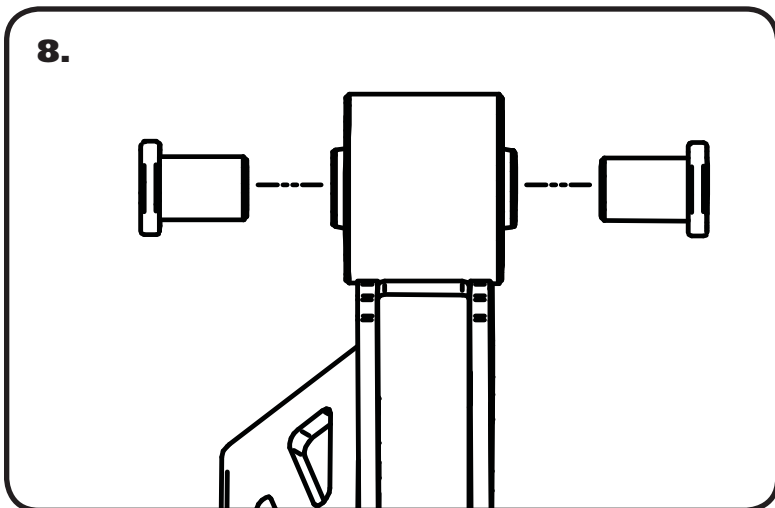


6. Install the Strut Rod Bracket onto the bottom of the OEM Center Section with the FLAT side to the rear of the car. Attach the bracket with (4) 3/8" x 1" Hex Bolts, (4) 3/8" SAE Flat-washers, and (4) 3/8" Split Lock washers.



7. Install the Knurled Studs into the Trailing Arms. Install the OEM Hub Assembly using (4) 3/8" SAE Nylok Nuts. The Drivers side Trailing Arm has the Shock Mount pointing down and facing the inside of the car. Do this for both sides.

Note: The Hub Assemblies are Driver and Passenger specific. The "D" shaped hole in the lower Strut Rod Mount faces the rear of the car.



8. Install the T-bushings into the front Trailing Arm Bushings. Do this for both Trailing Arms.



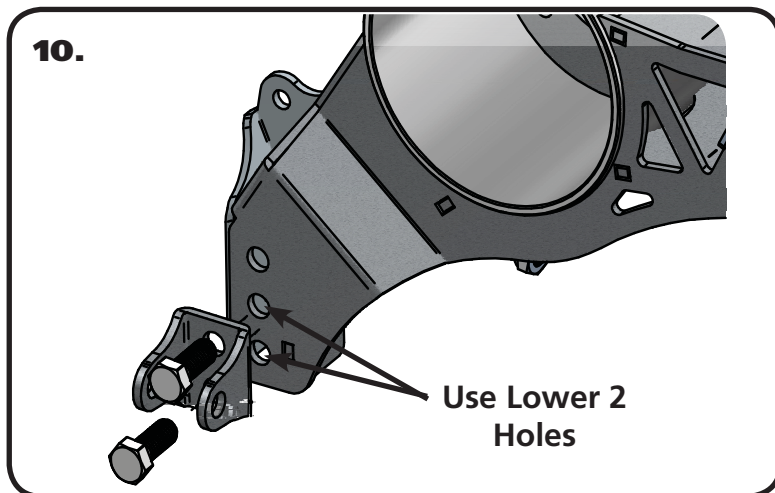
Trailing Arm & Strut Rod Installation



9. Install the Driver Trailing Arm Assembly into the stock location using (1) 7/16" x 4 1/2" Bolt, (1) 7/16" Flatwasher. Install New Shims that are supplied with the kit. The shim stacks should be the same thickness as the shim stacks that were removed from the OEM setup. Repeat for Passenger side.

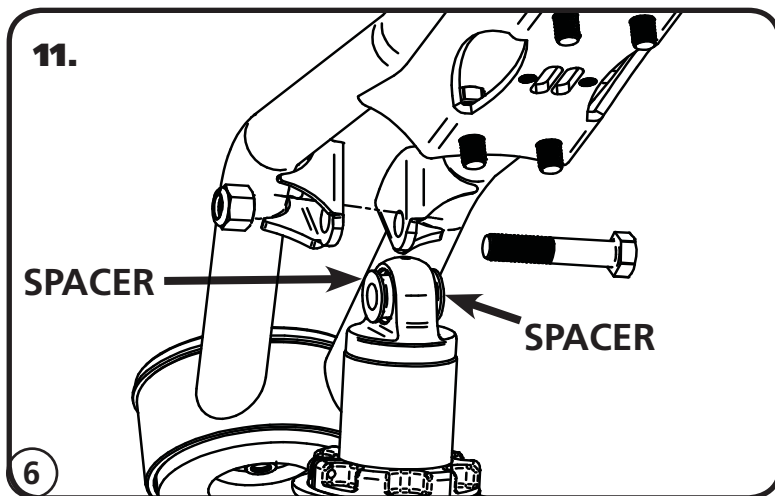
DUE TO VARIATIONS OF THE OPENINGS, CHECK CLEARANCE BETWEEN TRAILING ARMS AND FRAME. THE AREA POINTED OUT IN DIAGRAM "9" MAY NEED TO BE CLEARANCED.

Note: Driver Trailing arm is shown in Diagram "10". The shock mount will be on the bottom when the arm is installed correctly.



10. Attach the Shock Mounting Bracket to the lower to holes in the Trailing Arm. The Shock Mount is attached using (2) 1/2"-13 x 1 1/4" Bolts and (2) 1/2"-13 Nylok Nuts.

Note: The Upper 2 holes would be used if a 1" higher ride height would be desired.



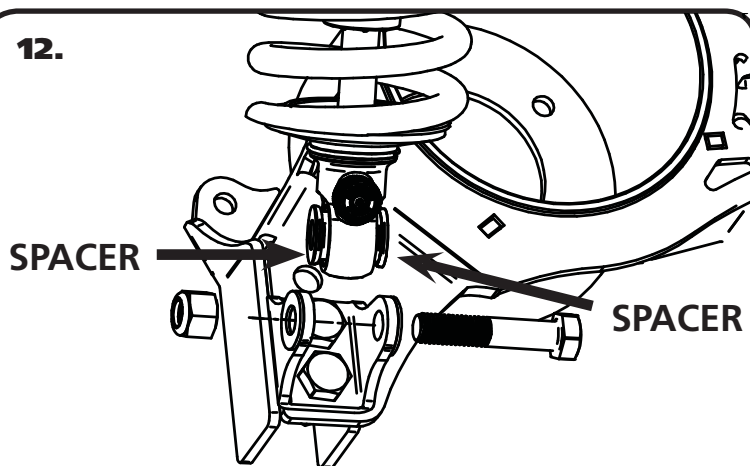
11. Install a spacer on each side of the upper Coilover. Slide the assembly into the upper crossmember from the bottom side. If your shock has an adjuster knob position it so that the knob points toward the center of the car. Line up the hole in the spacers with the hole in the upper shock bridge and insert 1/2" x 2 1/2" bolt and install 1/2" Nylok nut.

Note: If installing TQ Series CoilOvers, the hose **MUST** be to the **INSIDE** of the car.



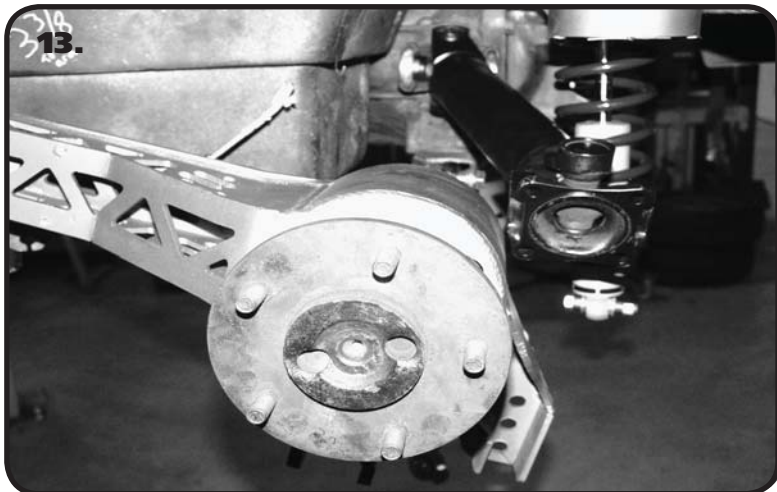
Shock Mount & CoilOver Installation

12.



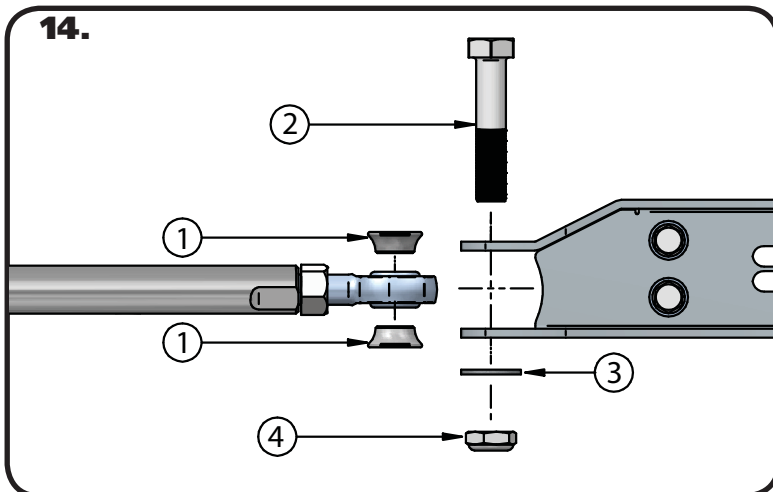
12. Install a spacer on each side of the lower Coilover. Slide the shock with the spacers installed into the mount on the lower Strong-Arm. You may need to jack the rearend up to line up the holes in the bushing with the 1/2" hole in the shock mounts and hold it in place while you install the 1/2" x 2 1/2" bolt and 1/2" Nylok nut. Tighten the upper and lower shock bolts.

13.



13. Reinstall the OEM Half Shafts using the OEM hardware.

14.



14. Install each Strut Rod using (4) 5/8" I.D. x 7/16" thick spacers, (1) 5/8" x 2 3/4 Hex Bolt, (1) 5/8" x 2 3/4" Hex Bolt with Machine Flat, (2) 5/8" Flatwasher (under nut), and (2) 5/8" Thin Nylok Nuts. The Strut is installed into the new Strut Rod Bracket located on the center section of the differential and the OEM Strut Rod Bracket attached to the OEM Hub. It is installed by inserting a 7/16" thick Spacer on each side of the heim end. The regular 5/8" Hex Bolt is used at the differential, the 5/8" Hex bolt with Machined Flat is installed in the hub side. The Machine Bolt is install with the threads pointing to the rear of the car.



Installation Instructions



Finishing

- 15.** Reattach Brake lines and Emergency Brake Cables (Depends on year). Bleed the brakes before driving car. **Make sure the Parking Brake Cable doesn't interfere with the Brake Line.**

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

- 17.** Set ride height on the Corvette. The ride height of the Coilover is approximately 13". When using Coilovers, the ride height is done by using the adjuster nut for the coil spring. The coil spring on the Coilover will have some preload in the spring to get ride height, this is normal.

STILL HAVE QUESTIONS?

Tech line hours

Monday - Friday

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

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812-482-2932