



## 81224001 97-03, 04 Heritage F150 2WD

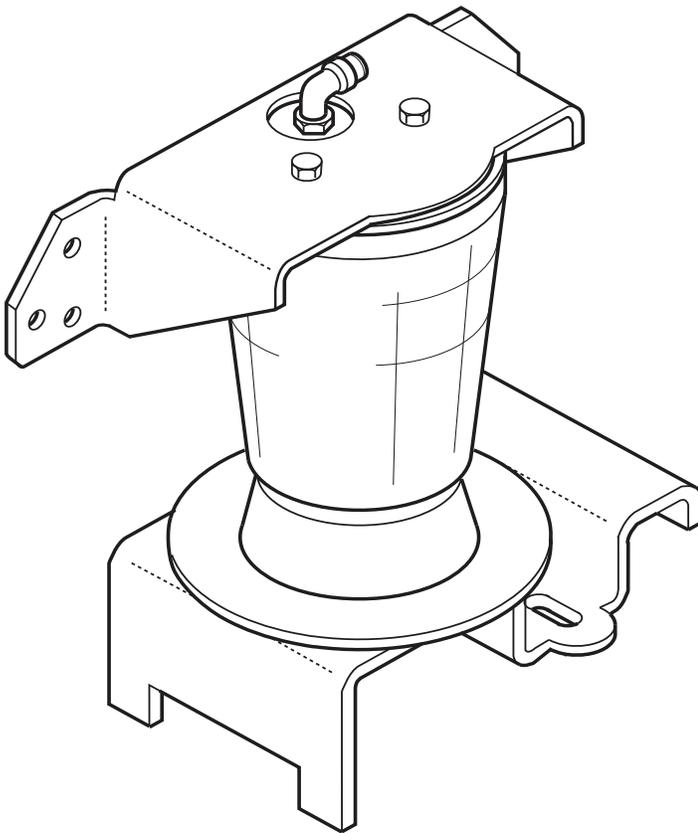
Congratulations - your new TowPro Helper Springs are quality products capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.

### Components

AIR SPRINGS	9000	2
UPPER BRACKETS	5377	2
LOWER BRACKETS	5505	2
3/8" NUT PLATES	5245	4
DISK	5204	2
BRACKET STRAPS	5086	2
BRAKE LINE BRACKET(Ford)	5375	1
LOWER DISC	5204	2
JOUNCE BUMPER SPACER	0033	2
BAIL CLAMP	3353	2
90 DEGREE AIR FITTING	4201	2

### Hardware

3/8"-16 X 1-1/2" HEX BOLTS	8
3/8"-16 FLANGE LOCK NUTS	8
3/8"-16 X 3/4" HEX BOLTS	6
3/8" SPECIAL FLAT WASHERS	8
M10 X 40MM HEX BOLT	2
M10 HEX NUT	2
M10 LOCK WASHER	2
3/8"-16 X 3.62" X 3" BAIL CLAMP	4
5/16" FLAT WASHERS	4
NYLON TIES	6
THERMAL SLEEVES	2

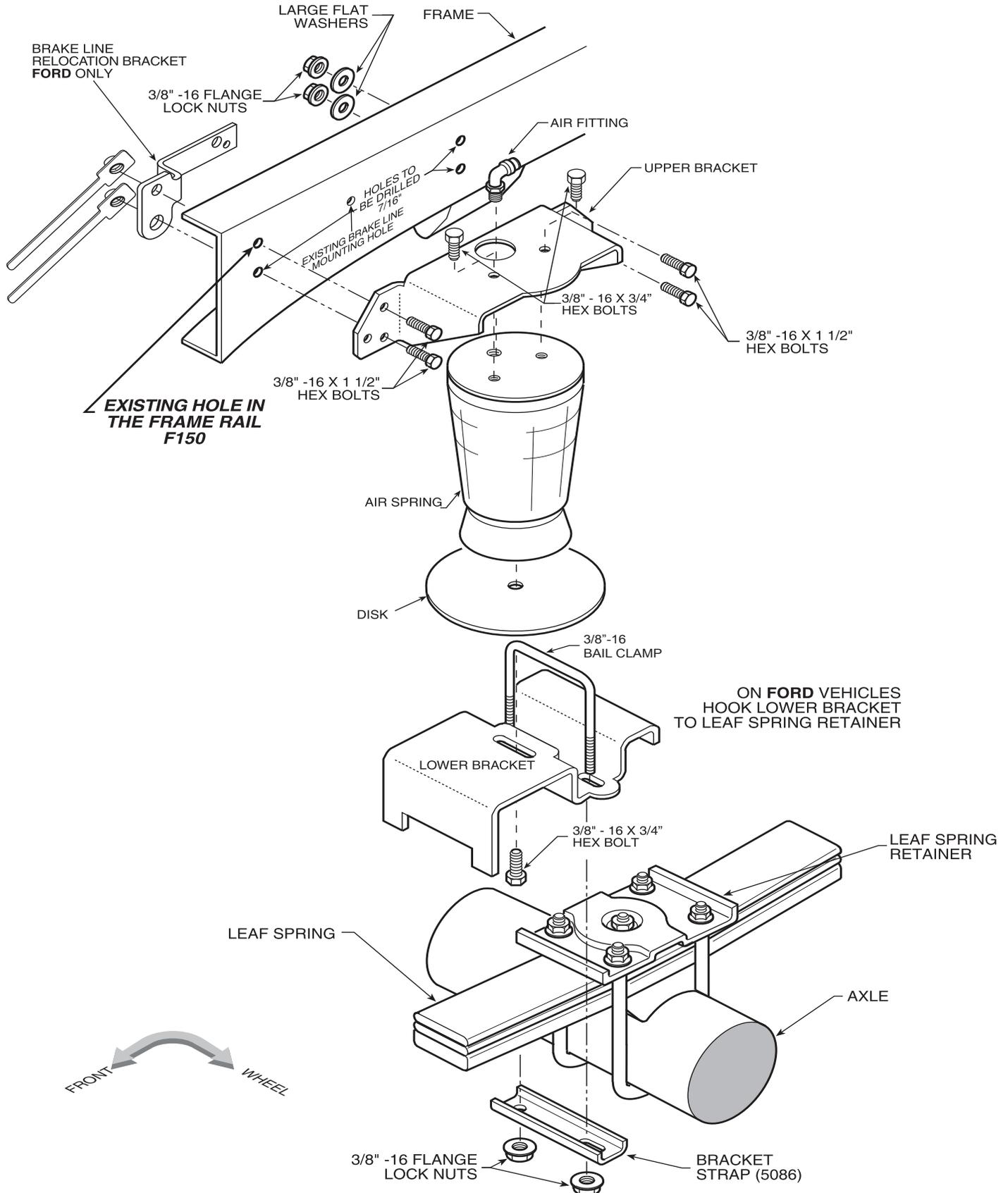


### WARNING!

Do not inflate this assembly when it is unrestricted. The assembly must be restricted by the suspension or other adequate structure. Do not inflate beyond 100 P.S.I. Improper use or over inflation may cause property damage or severe personal injury.

**NOTE:** Both illustrations are of the left side of the vehicle. Reverse any orientations when assembling and installing the right side of the vehicle. Both airsprings are located just ahead of the vehicle's axle.

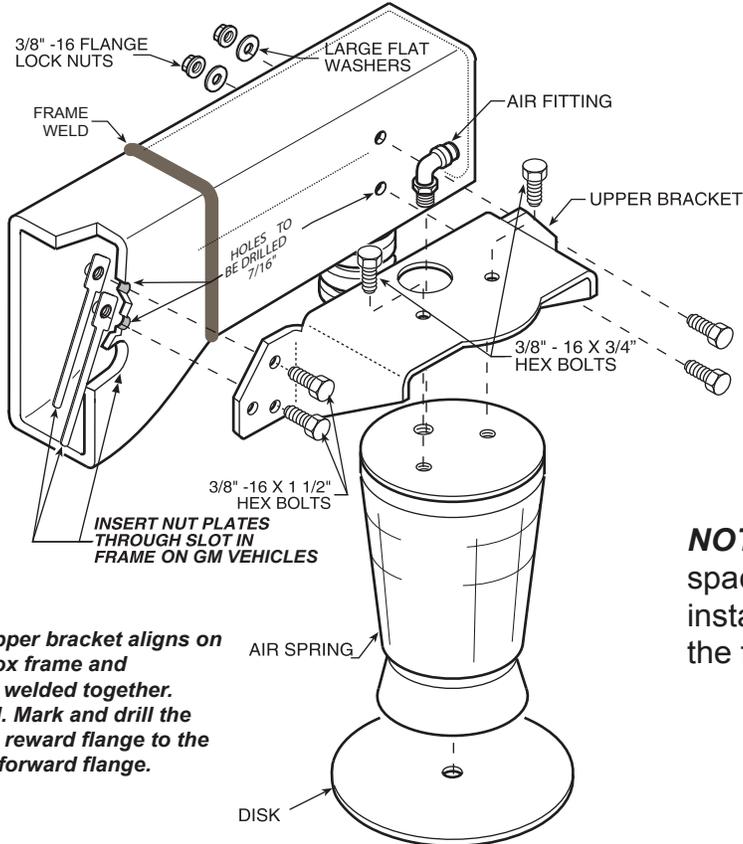
**NOTE:** FORD vehicles ONLY use supplied brake line bracket to relocate brake line.



**NOTE:** Both illustrations are of the left side of the vehicle. Reverse any orientations when assembling and installing the right side of the vehicle. Both airsprings are located just ahead of the vehicle's axle.

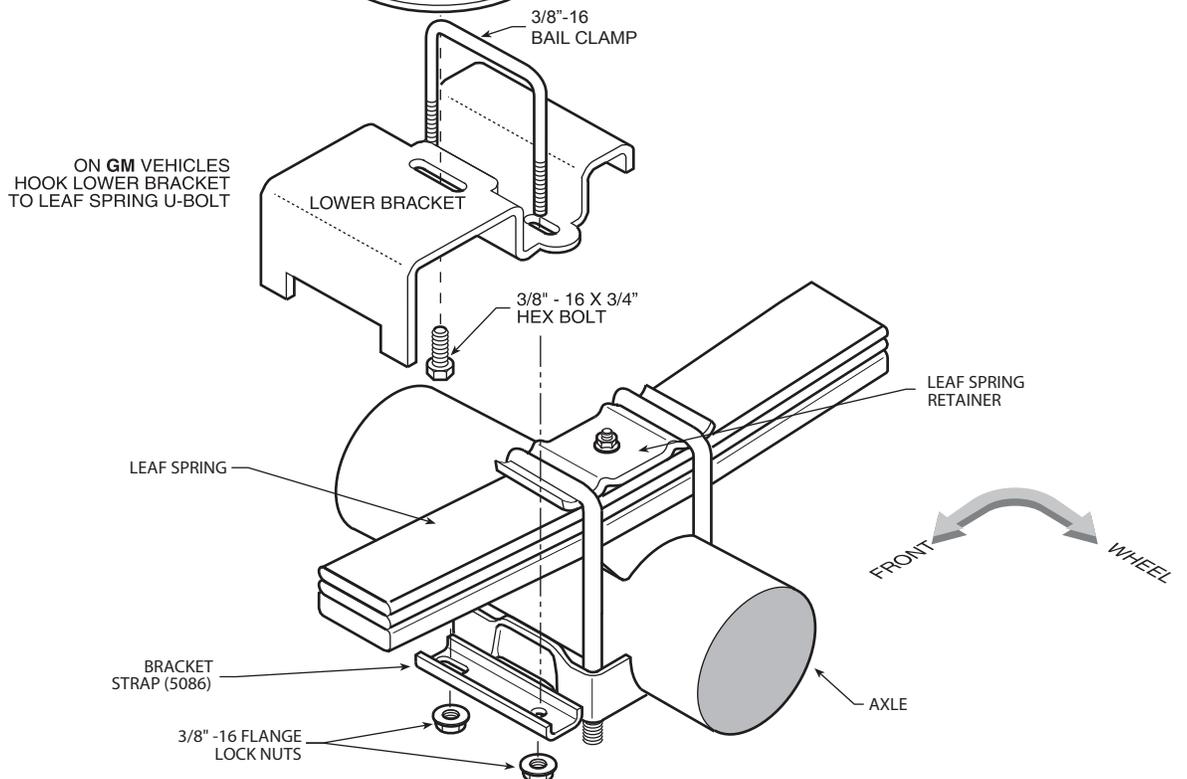
**NOTE:**

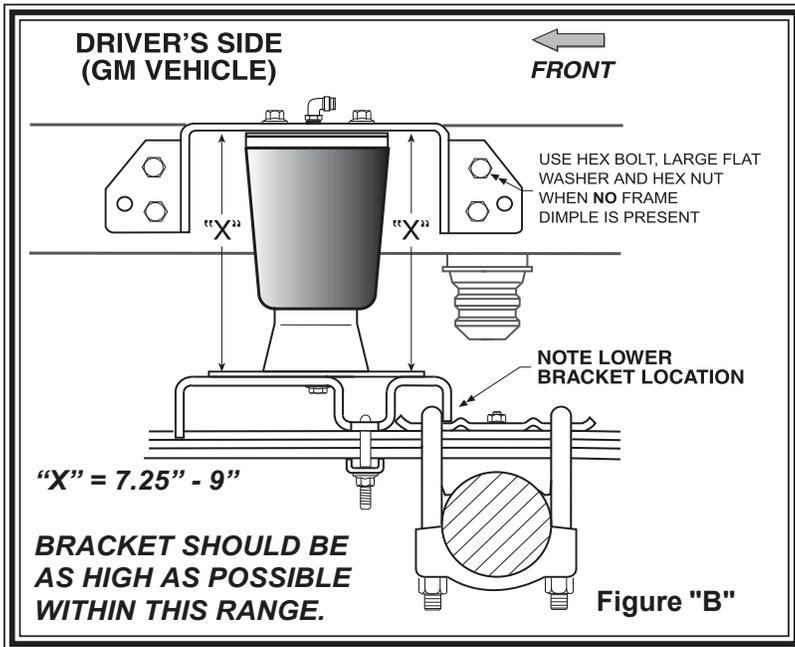
*GM vehicle frame rails may have reinforcing ribs on the frame rail. DO NOT drill through these ribs, simply allow the upper bracket flange to rest on the rib (refer to step 5).*



**NOTE:** Install the included spacer between the factory installed jounce bumper and the frame. See Figure "F".

**GM vehicles - The upper bracket aligns on the frame where a box frame and C-channel frame are welded together. No spacers are needed. Mark and drill the holes and fasten the rearward flange to the frame first, then the forward flange.**



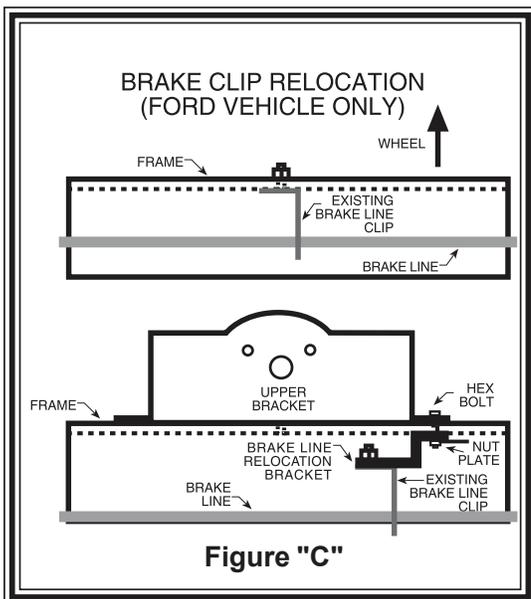


### STEP 1 - PREPARE THE VEHICLE

First, measure the distance between the tire and frame. If there is less than 6" of clearance, **do not proceed**. There should be no extra weight in the bed of the truck so that the initial ride height of your air helper spring kit will be correct. With the vehicle on a solid, level surface chock the front wheels. Raise the vehicle by the axle and remove the rear wheels. After the removal of the wheels, lower the vehicle so the axle rests on jack stands rated for your vehicles weight. Remove the negative battery cable.

#### THE "X" DIMENSION.

Throughout this manual we refer to an "X" dimension. This is the initial, un-inflated overall height of the air spring. Both right and left sides should be installed at the same height. The "X" dimension on this air spring is 7.25" to 9". The upper bracket should be as high as possible within this range. The air spring may require some stretching to achieve this dimension.



### STEP 2 - PRE-ASSEMBLE THE KIT

Select one air helper spring from your kit. Install the upper bracket by aligning the three holes on the air spring with the holes on the upper bracket. Fasten the upper bracket to the air spring using the 3/8" x 3/4" hex bolts as shown in *Figure "A"*. Install the air fitting as shown in *Figure "A"*. Tighten the air fitting to make contact with the Teflon ring and then tighten an additional 1/2 turn. No thread sealant is needed. Insert the bail clamp into the lower bracket. Next, attach the lower bracket and disk to the air spring using the 3/8"x 3/4" hex bolt (see *Figure "A"*). Note: Finger tighten the bolt securing the lower bracket and disk allowing the air spring to move freely. **This will be tightened after alignment in Step 6.**

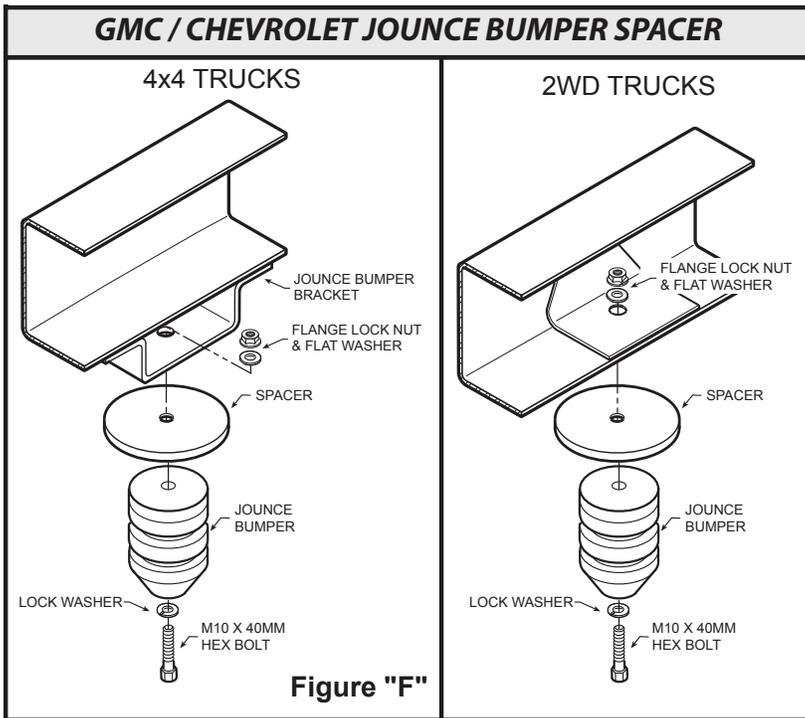
### STEP 3 - ATTACH LOWER BRACKET TO LEAF SPRING

Place the assembly on the left side on top of the leaf spring stack forward of the axle (see *Figure "A" and "B"*). Note the slight difference in the lower bracket position on top of the leaf spring plate between Ford and GM. Attach the lower bracket to the leaf stack using the bail clamp (installed earlier), the bracket strap, and the flange lock nuts as shown in *Figure "A" and "B"*. (Tighten to 15-20 ft. lbs.)

### STEP 4- (GM TRUCKS)

Remove the jounce bumpers located under the frame rail by removing the bolt located inside the bumper. The hardware will not be re-used with this kit. Insert a M10 x 40MM bolt and lock washer through the bottom of the jounce bumper and into the small hole in the top. Place the spacer over the bolt. Insert the bolt into the existing hole in the frame and secure with a M10 nut. See *Figure "F"*.

**CAUTION:** The frame rails on some GM trucks have reinforcing ribs used to strengthen to the frame rail. **DO NOT** drill through these ribs. If the holes in the upper bracket align with these ribs, choose another hole which is not on the rib and let the upper bracket rest against the rib. You must use 2 holes on each side of the upper bracket. *GM trucks with the reinforcing ribs will require a flat washer between the upper bracket and the frame to allow the upper bracket to rest squarely against the rib.*



### STEP 5 – MARK AND DRILL HOLES IN THE FRAME

Visually align the air spring so that it is vertically straight and the upper and lower brackets are parallel. *(Note: The upper bracket should not extend beyond the top of the frame rail.)* see *Figure "A" and "B"*. Check the "X" dimension on both sides of the air spring, these dimensions should be the same (refer to *Figure "B"*). **Before drilling the holes make sure all electrical, brake and fuel lines are cleared from the path of the drill.** In order to prevent any damage to these lines it is recommended that a piece of wood be placed between the frame rail and the existing lines during drilling. With the air spring assembly in place, mark the upper left hole with a center punch. Drill the hole using a 3/8" drill bit.

### STEP 6 – (ALL ) ATTACHING THE UPPER BRACKET

**NOTE: GM vehicles** - The upper bracket aligns on the frame where a box frame and C-channel

frame are welded together. No spacers are need. Mark and drill the holes and fasten the reward flange to the frame first, then the forward flange.

Your kit includes 3/8" nut plates as well as 3/8" flange nuts that will be used to attach the upper bracket to the frame. These nut plates allow entry into the frame in the areas where it would be difficult to use a wrench. Once the hole has been drilled, attach the upper bracket using a 3/8" x 1 1/2" hex bolt and a nut plate (finger tight). (On Ford vehicles use the brake line relocating bracket) This will allow you to adjust the location of the upper bracket. Once the positioning of the upper bracket is parallel with the lower bracket and the "X" dimensions are the same, drill the remaining holes in the frame rail using the upper bracket as a template. Use the 3/8" x 1 1/2" hex bolts and nut plate on the front portion of the frame rail. Use the 3/8" x 1 1/2" hex bolts, large flat washers (inside of the frame) and the flanged hex nuts to fasten the upper bracket to the frame rail. *Figure "A"*. Tighten the bolts to 28 – 32 ft. lbs. **Once the upper bracket is secure, align the bottom of the air spring side to side to ensure that it is vertical. Tighten the bolt securing the lower bracket to the air spring.**

### STEP 7 - INSTALLATION OF THE RIGHT SIDE ASSEMBLY

Follow steps 1-5, reversing all orientations, for assembly and installation of the passenger's side assembly. Both air helper springs will install just to the front of the axle.

### Important:

**In order for the air spring to function properly, there must be a minimum of 1/2" of clearance around the air spring.**

### STILL HAVE QUESTIONS?

#### Tech line hours

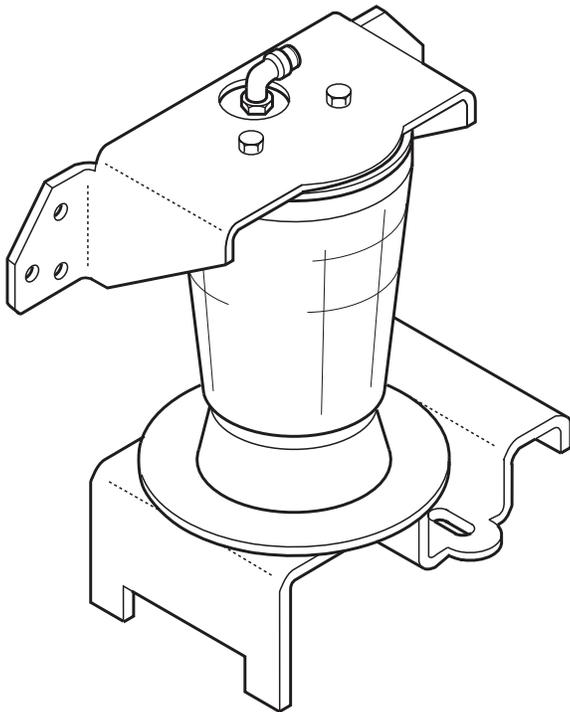
Monday - Friday 8Am - 6PM (EST) ....812-482-2932





## 81224001 97-03, 04 Heritage F150 2WD

Congratulations - your new LevelTow Helper Springs are quality products capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.



### Components

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UPPER BRACKETS	5377	2
LOWER BRACKETS	5505	2
3/8" NUT PLATES	5245	4
DISK	5260	2
BRACKET STRAPS	5086	2
BRAKE LINE BRACKET(Ford)	5375	1

### Hardware

3/8"-16 X 1-1/2" HEX BOLTS	8
3/8"-16 FLANGE LOCK NUTS	8
3/8"-16 X 3/4" HEX BOLTS	6
3/8" SPECIAL FLAT WASHERS	8
3/8"-16 X 3.62" X 3" BAIL CLAMP	4
5/16" FLAT WASHERS	4
NYLON TIES	6
THERMAL SLEEVES	2

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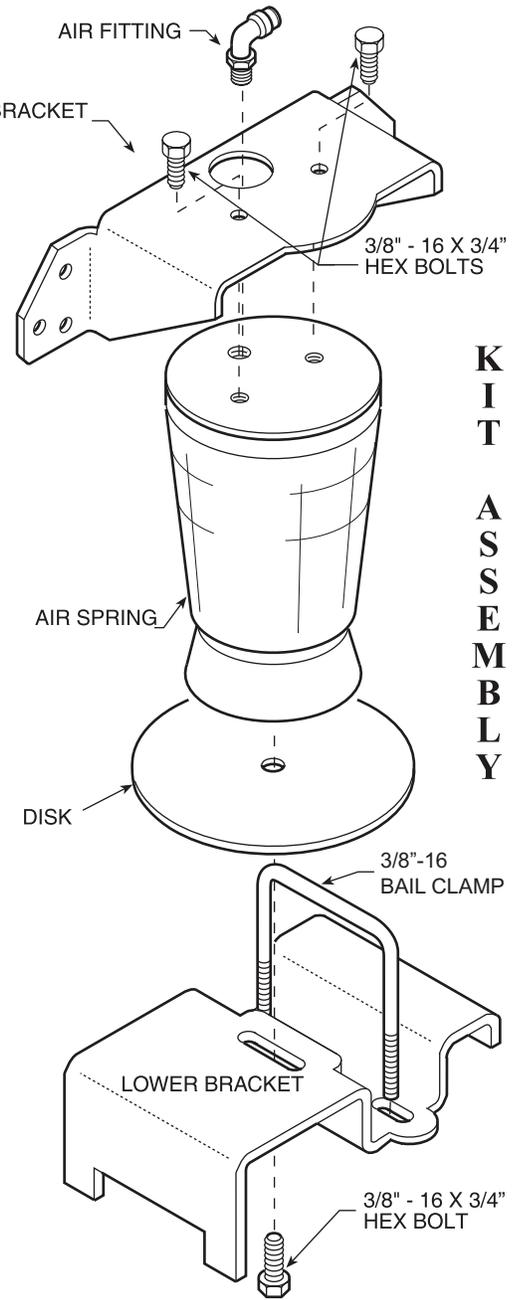
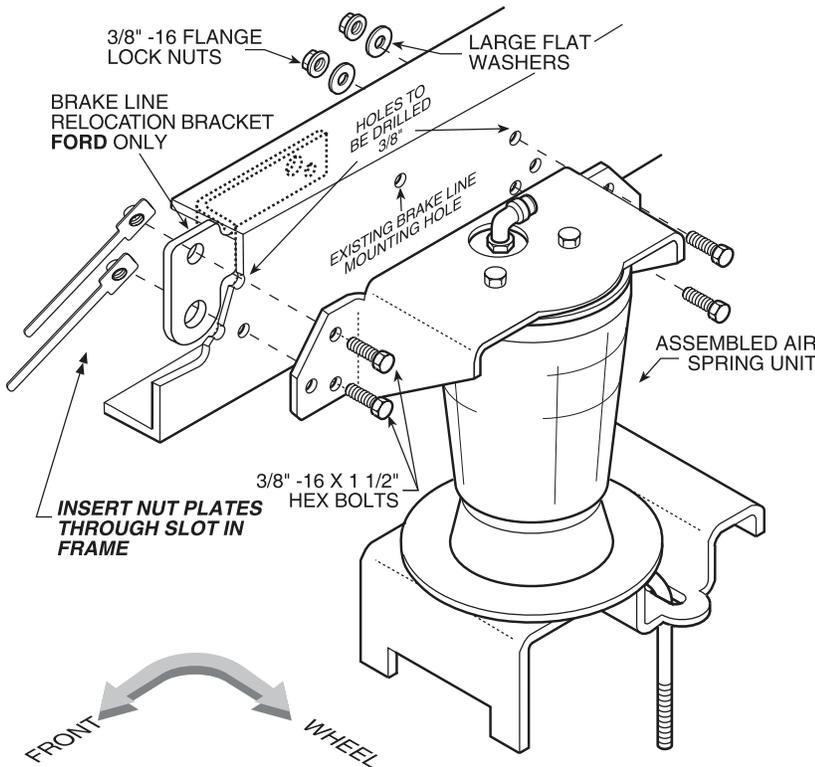
**FIGURE "A"**

**NOTE:** Both illustrations are of the left side of the vehicle. Reverse any orientations when assembling and installing the right side of the vehicle. Both airsprings are located just ahead of the vehicle's axle.

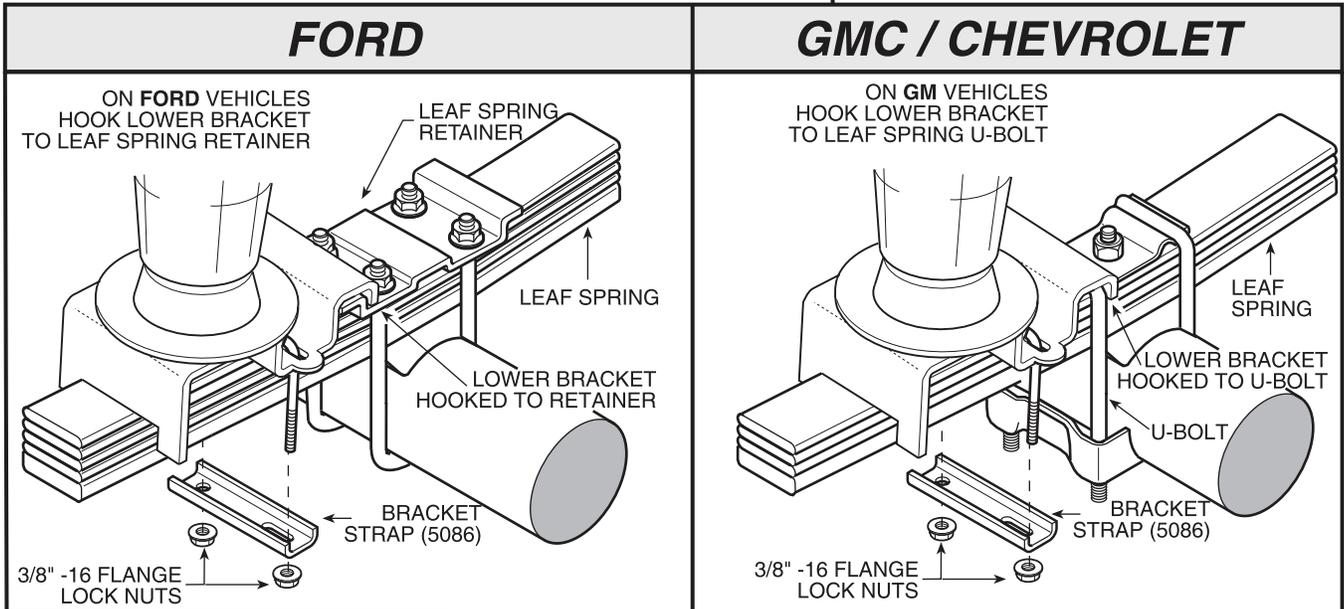
**KIT TO FRAME ASSEMBLY**

**NOTE:** FORD vehicles ONLY use supplied brake line bracket to relocate brake line.

GM vehicle frame rails may have reinforcing ribs on the frame rail. DO NOT drill through these ribs, simply allow the upper bracket flange to rest on the rib (refer to step 5).



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## STEP 1 - PREPARE THE VEHICLE

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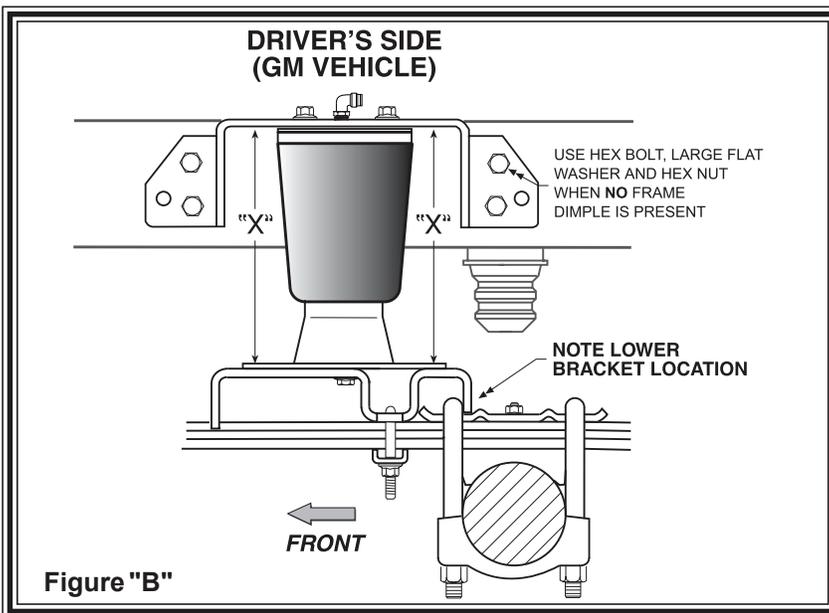


Figure "B"

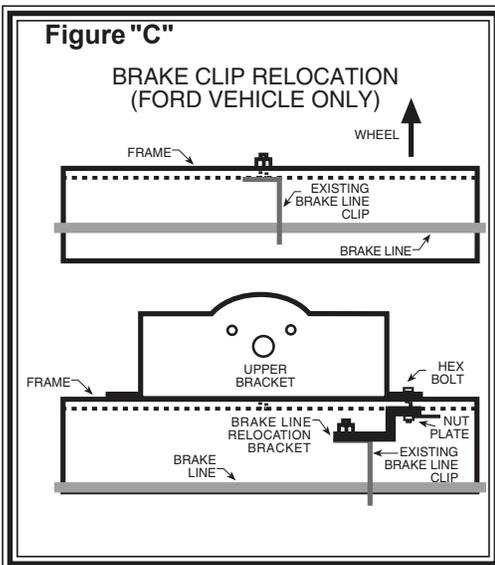


Figure "C"

9". The air spring may require some stretching to achieve this dimension.

## STEP 2 - PRE-ASSEMBLE THE KIT

Select one air helper spring from your kit. Install the upper bracket by aligning the three holes on the air spring with the holes on the upper bracket. Fasten the upper bracket to the air spring using the 3/8" x 3/4" hex bolts as shown in *Figure "A"*. Install the air fitting as shown in *Figure "A"*. Tighten the air fitting to make contact with the Teflon ring and then tighten an additional 1/2 turn. No thread sealant is needed. Insert the bail clamp into the lower bracket. Next, attach the lower bracket and disk to the air spring using the 3/8"x 3/4" hex bolt (see *Figure "A"*). Note: Finger tighten the bolt securing the lower bracket and disk allowing the air spring to move freely. **This will be tightened after alignment in Step 6.**

## STEP 3 - ATTACH LOWER BRACKET TO LEAF SPRING

Place the assembly on the left side on top of the leaf spring stack forward of the axle (see *Figure "A"* and *"B"*). Note the slight difference in the lower bracket position on top of the leaf spring plate between Ford and GM. Attach the lower bracket to the leaf stack using the bail clamp (installed earlier), the bracket strap, and the flange lock nuts as shown in *Figure "A"* and *"B"*. (Tighten to 15-20 ft. lbs.)

## STEP 4- (GM TRUCKS)

**CAUTION:** The frame rails on some GM trucks have reinforcing ribs used to strengthen to the frame rail. **DO NOT** drill through these ribs. If the holes in the upper bracket align with these ribs, choose another hole which is not on the rib and let the upper bracket rest against the rib. You must use 2 holes on each side of the upper bracket. *GM trucks with the reinforcing ribs will require a flat washer between the upper bracket and the frame to allow the upper bracket to rest squarely against the rib.*

## STEP 4- (FORD TRUCKS)

On FORD vehicles, unbolt the brake line bracket from the left frame rail. Using the existing hardware, attach the brake line bracket onto the brake line relocating bracket provided. This relocating bracket will be attached to the inside of frame using the upper bracket mounting bolts. Relocation is necessary to prevent the original brake line bolt from rubbing the air spring. See *Figures "A"* & *"C"* for mounting.

### STEP 5 – MARK AND DRILL HOLES IN THE FRAME RAIL

Visually align the air spring so that it is vertically straight and the upper and lower brackets are parallel. Place the upper bracket so the top of the bracket is parallel with the top of the frame rail. (*Note: The upper bracket should not extend beyond the top of the frame rail.*) see Figure "A" and "B". Check the "X" dimension on both sides of the air spring, these dimensions should be the same (*refer to Figure "B"*). *Before drilling the holes make sure all electrical, brake and fuel lines are cleared from the path of the drill.* In order to prevent any damage to these lines it is recommended that a piece of wood be placed between the frame rail and the existing lines during drilling. With the air spring assembly in place, mark the upper left hole with a center punch. Drill the hole using a 3/8" drill bit.

### STEP 6 – (ALL ) ATTACHING THE UPPER BRACKET

Your kit includes 3/8" nut plates as well as 3/8" flange nuts that will be used to attach the upper bracket to the frame. These nut plates allow entry into the frame in the areas where it would be difficult to use a wrench. Once the hole has been drilled, attach the upper bracket using a 3/8" x 1 1/2" hex bolt and a nut plate (finger tight). (On Ford vehicles use the brake line relocating bracket) This will allow you to adjust the location of the upper bracket. Once the positioning of the upper bracket is parallel with the lower bracket and the "X" dimensions are the same, drill the remaining holes in the frame rail using the upper bracket as a template. Use the 3/8" x 1 1/2" hex bolts and nut plate on the front portion of the frame rail. Use the 3/8" x 1 1/2" hex bolts, large flat washers (inside of the frame) and the flanged hex nuts to fasten the upper bracket to the frame rail. Figure "A". Tighten the bracket attaching bolts to 28 – 32 ft. lbs. **Once the upper bracket is secure, align the bottom of the air spring side to side to ensure that it is vertical. Tighten the bolt securing the lower bracket to the air spring.**

### STEP 7 - INSTALLATION OF THE RIGHT SIDE ASSEMBLY

Follow steps 1-5, reversing all orientations, for assembly and installation of the passenger's side assembly. Both air helper springs will install just to the front of the axle.

### Important:

**In order for the air spring to function properly,  
there must be a minimum of 1/2" of clearance  
around the air spring.**

**STILL HAVE QUESTIONS?**

### Tech line hours

Monday - Friday 8Am - 6PM (EST) ..... 812-482-2932

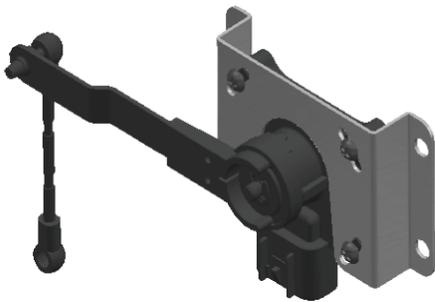


# LevelTOW

ADVANCED TOWING SOLUTIONS  
by ridetech

## LevelTow Compressor System

Congratulations - your new LevelTow Compressor System is a quality product, that when used in conjunction with the LevelTow helper Air Springs, is capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.



### Components:

	Part #	QTY
Compressor Unit	31920021	1
Smart Sensor Height Sensor	31980006	1
Compressor Mounting Bracket	90002637	1
Smart Sensor Mounting Bracket	70010596	1
Sensor Linkage	31980011	1
Linkage Axle Bracket	70011429	1
Control Panel Bracket	70011439	1
Airline Fitting (mounted in compressor)	31957016	1
Main Activation Switch	35970000	1
Manual Control Switch	70011413	1
Main Wire Harness	31900051	1
Axle Bracket Clamp	99000005	1
1/4" TEE Fitting	31954400	1
1/4" Fitting for airsprings Straight / 90 Degree	31954000 / 31954201	2
20 amp fuse	90001922	1
Fuse Holder	90001924	1
10-12 Butt Connector for Fuse Holder	90001913	1
Ring Terminal for Main Power Hookup	90001916	1

### Hardware:

#10 x 5/8" Phillips pan head - sensor to bracket	99104002	4
1/4"-14 x 1" Self Drilling Screw- Sensor to Frame	99254001	5
3/8-16 x 1" Thread Forming - Compressor Bracket to Frame	99373007	5
10-24 x 1 1/4" Maching Screw - Compressor to Bracket	99101007	4
10-24 Nylok Nut - Compressor to Bracket	99102002	4
#10 Flat Washer - Compressor to Bracket	99103001	8

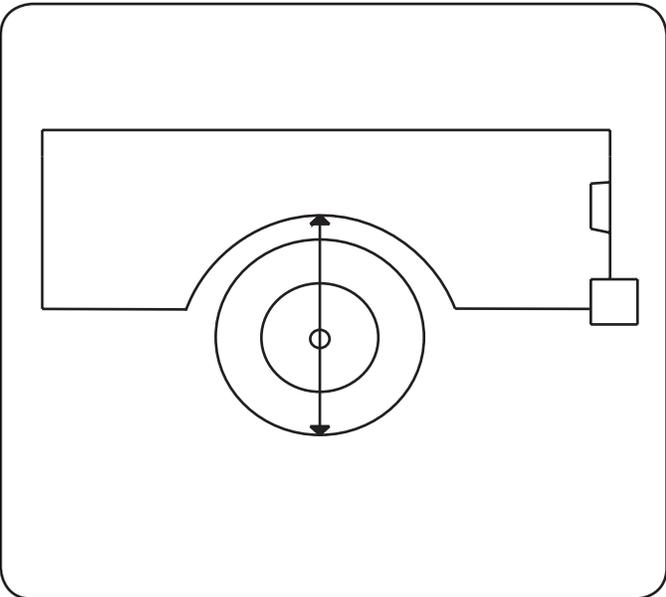
The LevelTow Compressor System is an automatic leveling system, once it is turned on (button illuminated blue) it will operate without any assistance.

The Smart sensor supplied with the compressor system will tell the system to inflate or deflate to keep the vehicle level. It has a dwell range built in so that when the truck is going down the road hitting small defects the system will be idle. It isn't until the sensor gets out of this dwell range for 18 seconds that the system will react.

**The activation switch has to be illuminated blue for the system to work.**



**Activation Button**

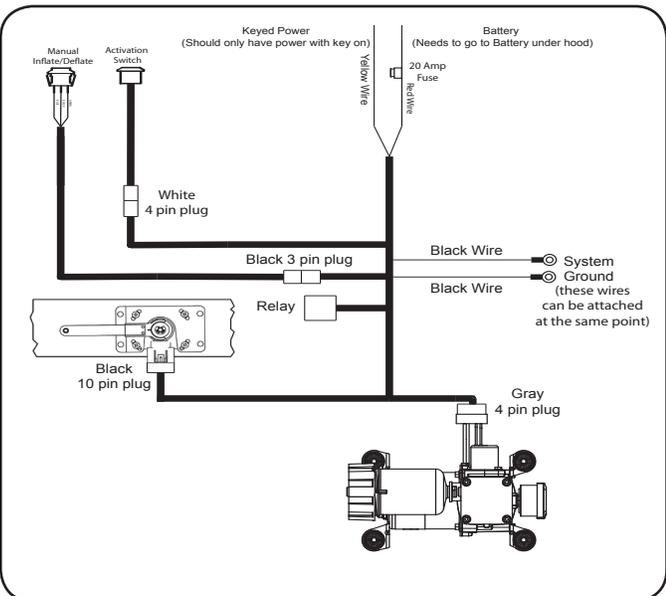


1. Before you install the compressor system, you will need to have the helper Airsprings installed. This will ensure that the LevelTow linkage does not get in the way of the Airsprings.

The first step to doing the install, with the vehicle at ride height, measure the lip of the fender to the ground at the center of the wheel and write it down.

Measurement \_\_\_\_\_

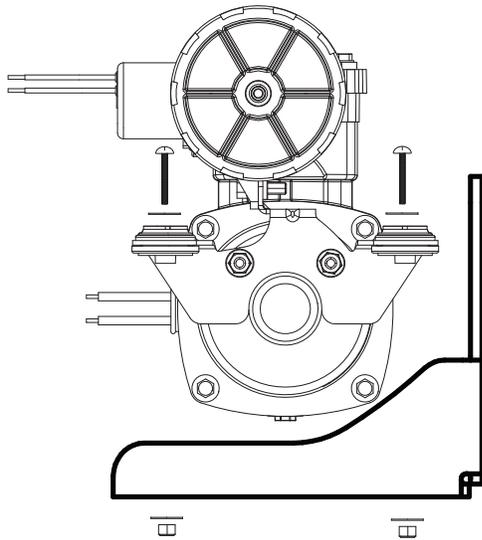
This measurement will be used as a reference once you have the compressor system installed.



2. Unpack the wiring for the LevelTow system and lay it out. This will give you an idea to where you can mount the components without having to modify the wiring harness.

**NOTE:**

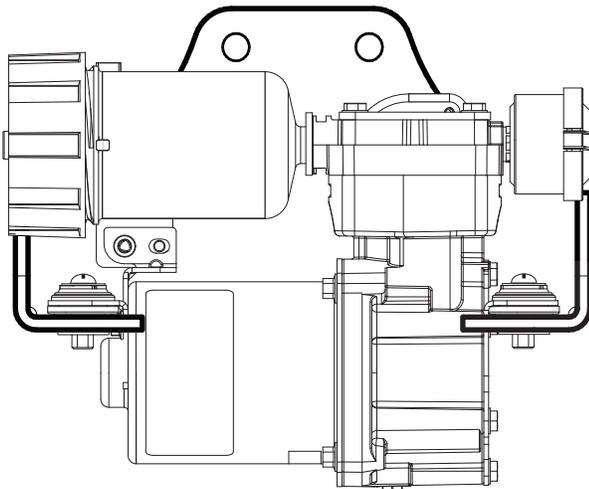
There is a wiring diagram on Page 7 to assist you in component location.



3. Bolt the compressor to the bracket. Position the compressor on the Bracket in the orientation shown. Line up the holes in the (4) Mounting Bushings with the (4) holes in the Bracket. Install a #10 Flat Washer on each of the (4) #10-24 x 1 1/4" Pan Head Screws. Insert a Screw/Washer in each of the 4 holes. Install a #10 Flat Washer on the threads sticking through the bottom of the bracket followed by a #10-24 Nylok Nut. Tighten the hardware.

**NOTE:**

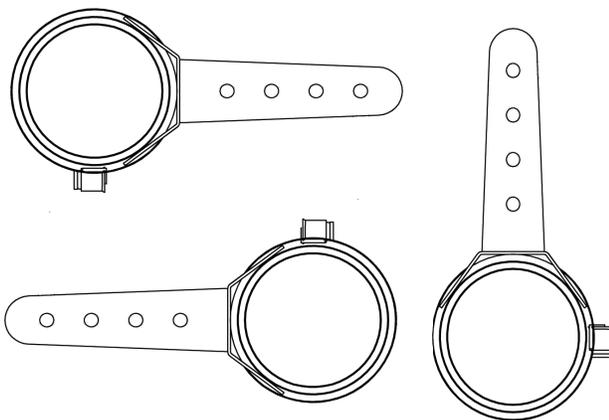
*The diagram shows the position the compressor goes onto the plate.*



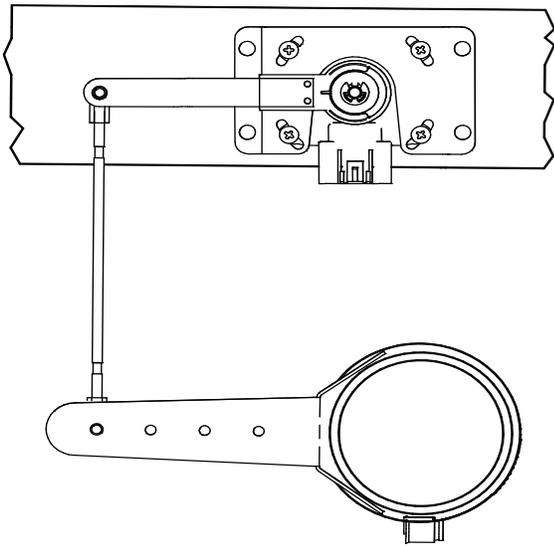
4. The compressor needs to be mounted on the frame rail with the dryer up. Attach the compressor bracket to the frame with (4) 3/8"-16 x 1" Thread Forming Bolts supplied in the kit. Drill a 5/16" Hole for the bolts.

**NOTE:**

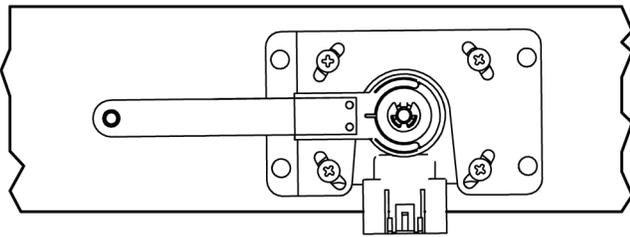
*Before drilling any hole be sure to check and see if there are any brake lines, fuel lines, or wires on the other side of the surface you are drilling.*



5. The Axle bracket can be mounted in any location on the axle tube to get the sensor linkage to line up. The Axle mount should be mounted on the axle so that the linkage will line up from the axle mount to the sensor. Keep this in mind when establishing the sensor location.



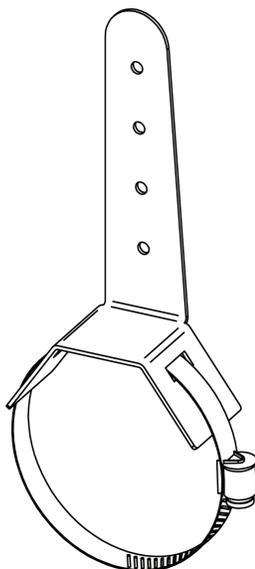
6. The next step will be to mount the sensor. The Smart Sensor needs to be centered in its travel at the trucks ride height to operate properly. This can be done by cutting the linkage rod to length. It can be fine tuned by loosening the 4 sensor mounting screws and twisting it in the mount and retightening the 4 screws. When the mounting and linkage is done it should look like the diagram seen here.



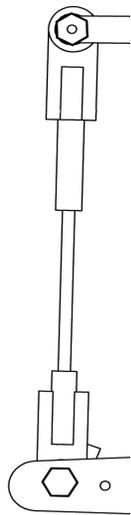
7. The sensor needs to be mounted on the frame rail with the wires pointing down. The arm will need to swing up opposite the direction of the wires as the suspension is being compressed. Attach the sensor bracket to the frame with (4) self drilling screws supplied with the kit.

**NOTE:**

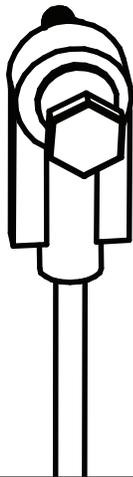
*The sensor can be mounted on the inside or outside of the frame. Make sure the linkage and arm can go through its entire travel without hitting any obstructions*



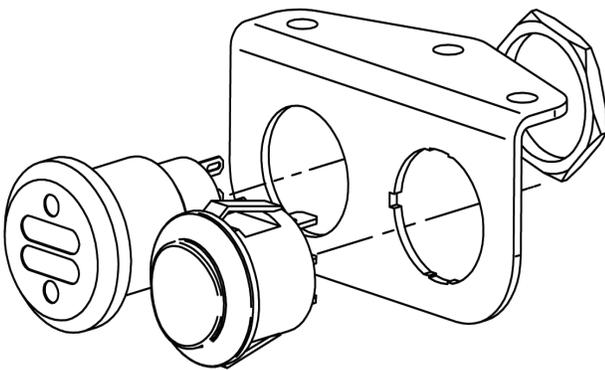
8. This diagram shows how the clamp sticks through the axle bracket. Loosen the clamp until it will open up and then slide it through the bracket. The whole assembly can then be put on the axle tube. Reinsert the end of the clamp back into the adjuster and tighten the clamp until the bracket is tight on the axle tube.



9. With the sensor and the axle bracket mounted, it is time to connect the 2 with the supplied linkage. The linkage is a universal length and will have to be cut to achieve the necessary length for your application. To do this it will be necessary to have the truck sitting at its factory ride height. With the truck at ride height center the sensor in its travel. The rod can slide into each rubber rod end up to 1”.

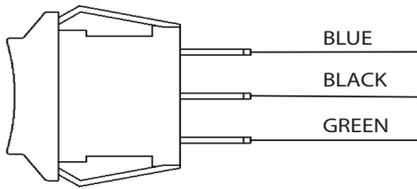


10. The linkage rod has barbs on the outside of it to keep it in the end link. After you push the ends in, they are difficult to pull back out. Push the linkage into the ends a little at a time until you get the desired length of the linkage assembly. If for some reason you must pull the rod out of the end, it is best done by twisting the end while pulling on it.



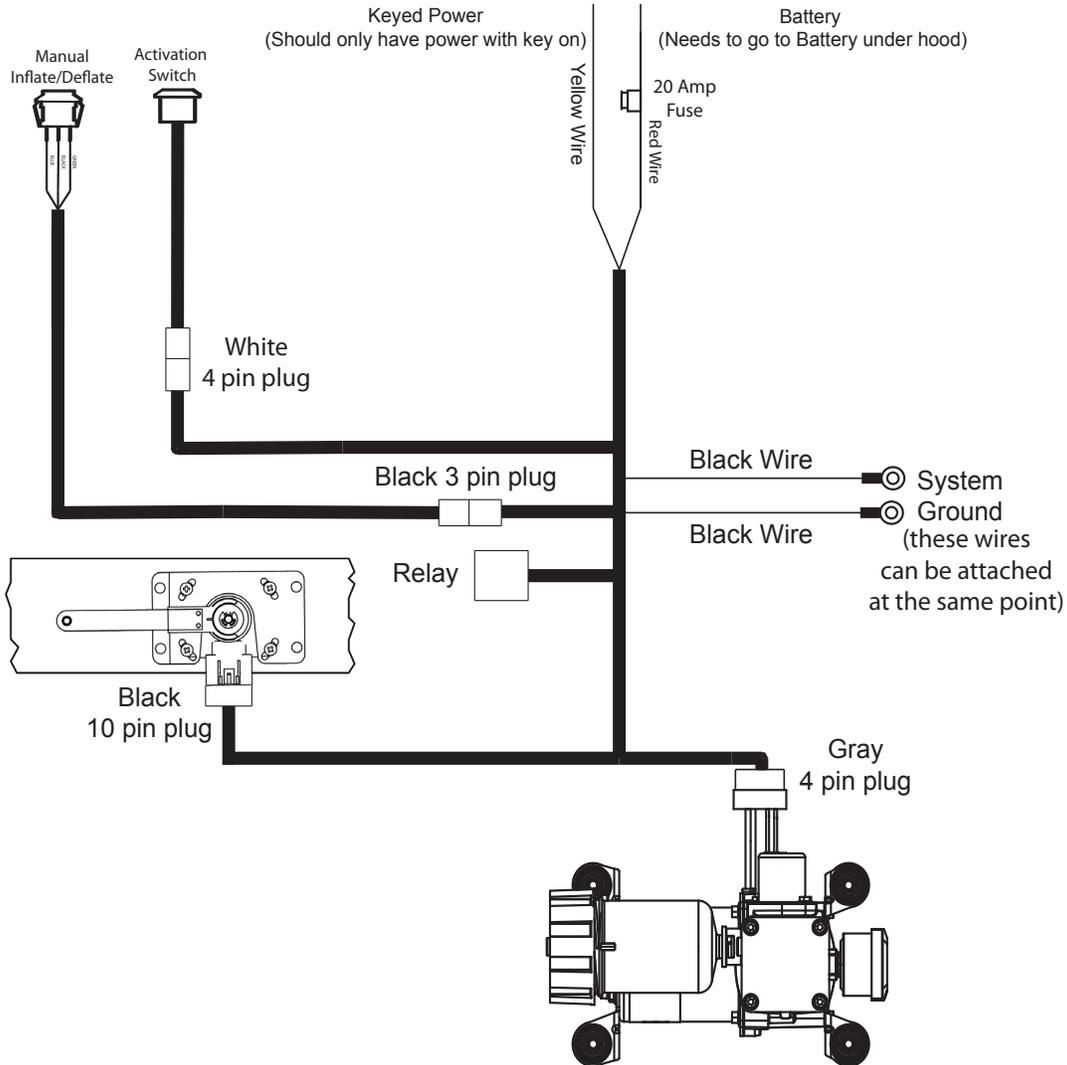
11. Mount the control panel in a convenient location. Install the Power Button and Manual Control Rocker into the panel. The Power Button gets installed into the round hole. The nut that is on the button is used to attach the button in the panel. The Rocker Switch goes into the hole with the notch in it. Align the tab on the switch with the slot and push the switch into the hole until it snaps in place. The rocker will only go into the hole one way. You can also custom mount the buttons if desired. They both use a 3/4” hole. The hole for the manual switch will have to have a slot for the tab

TOP



12. Hook the wires up to the manual control switch as shown in the diagram.

Green Wire-Manual Inflate  
Black Wire -Switch Supply  
Blue Wire - Manual Deflate

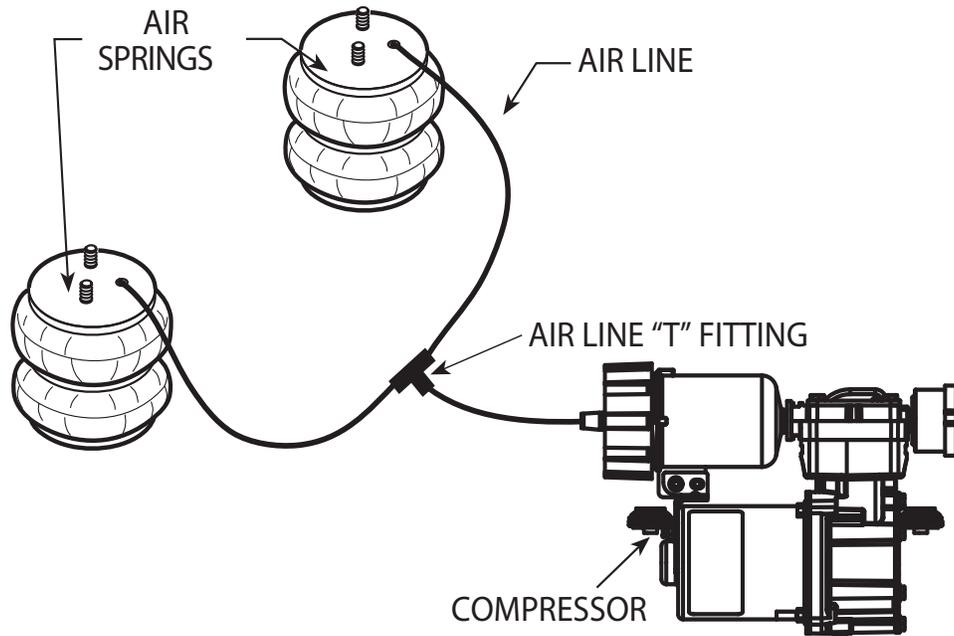


**Red Wire** - This wire needs to go straight to the **Battery** with the fuse holder installed within 18" of the Battery

**Yellow Wire** - This wire needs to go to a switched 12 volt power source. This wire should only have power when the key is on.

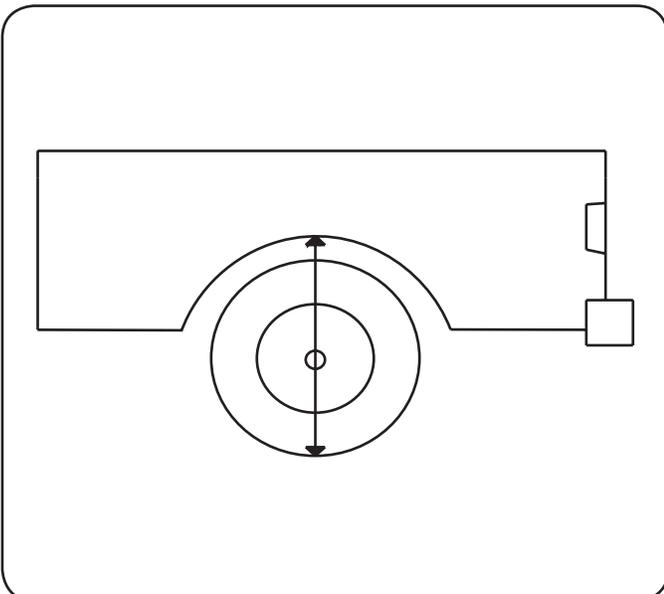
**Black Wires** - These wires go to a chassis ground. They can go to one of the screws attaching the compressor to the frame.

**Relay** - Will need to be attached to the frame with a self drilling screw supplied in the kit..



13. **Uncoil the airline being careful not to kink or flatten the line.** Start at the Airspring furthest from the compressor. Trim the airline so that the cut is clean and as square as possible. Insert the end of the airline into the fitting pushing it in as far as possible. Route the airline from the airspring to the compressor keeping it away the exhaust pipe and sharp edges. If it is necessary to run the line over a sharp edge, use a supplied thermal sleeve over the airline to protect it. The sleeve is installed by sliding it over the airline to the area where the line needs protected. **The airline should not be bent or curved sharply, this can cause the line to buckle or kink.** Secure the airline in place using the Zipties provided in the kit. Once the first airspring line is ran to the compressor, trim off the excess and use it for the remaining air spring line to the compressor. With both lines ran from the air spring to the compressor, install the "T" fitting on the lines and run the remaining side of the "T" fitting to the compressor fitting.

**TIP:** Wetting the end of the airline before sliding it into the fitting makes it easier to install into the fitting.



14. Once the system is installed you can verify the operation of the system by putting a load on the truck. With a load on the truck and the button illuminated blue, your fender to ground measurement that you took on the first step should be the same. If it is higher or lower you can adjust the height by loosening the 4 screws that attach the sensor to the bracket and twist in its mount. If ride height can not be achieved by adjusting in the bracket the linkage will need to be lengthened or shortened to achieve the height you need.

**Manual Operation:**

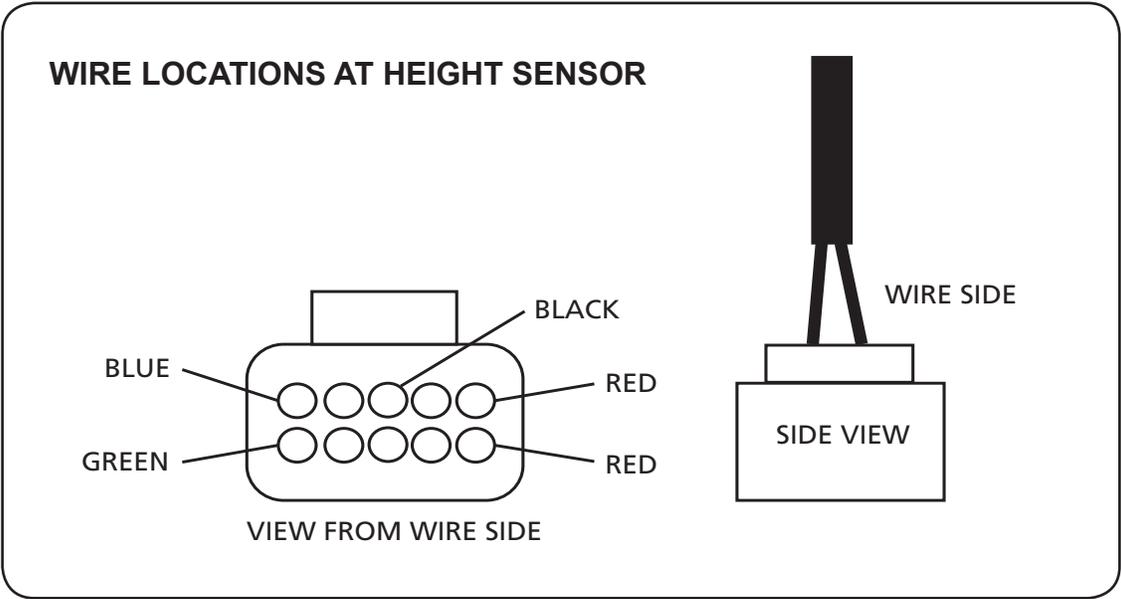
The LevelTow Compressor System also has a manual control function. This function allows you to manually inflated or deflate the system. To use the manual function you must first turn the system off by pushing the main power button. Once the system is turned off you can push the rocker switch up to inflate or down to deflate. To put the system back in level mode push the main power switch to turn it back on.

**Note:**

If the Activation Button is illuminated blue and the manual button is pushed the truck will relevel itself. The activation button has to be off for the manual control to be used and the truck remain at the height.

**Troubleshooting:**

If after installation you find the system not functioning correctly, you may have the sensor operating the wrong direction. You can verify this by turning the truck on and check that the activation button is illuminated blue. Unhook one end of the linkage and move the sensor arm by hand. If when you move the arm down (Keep in mind there is an 20 second delay) and the Air spring inflates, the sensor is operating in the wrong direction. You can fix this problem without remounting the sensor by swapping the blue and green wires in the harness at the sensor. To do this, with the truck turned off, simply unplug the harness from the sensor. Using a small screwdriver pop the purple retainer out of the plug by prying up on each end of it. After removing the retainer if you look into the end of the plug you will see a tang holding each wire terminal. Simply pry it down just enough to release the terminals of the blue and green wires. Swap the blue and green wire position and reinstall the wires into the plug paying attention to the direction of the small tab on the wire terminal. This tab will point to the center of the plug. Push the wire terminals into the plug making sure they catch on the tang and reinstall the purple retainer. After plugging the sensor back in you can confirm correct operation by turning the truck back on moving the sensor arm up, the Air spring should inflate. If the system is functioning correctly, shut the truck off and reattach the linkage.



STILL HAVE QUESTIONS?

Tech line hours

Monday-Friday

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

