

## Operational Instructions (Cont.)

### Ride-height button:

- The ride-height button has different functionality based on the length of time it is pressed.
- **Short Press** (less than 1 second)
  - If in auto-mode, the system returns to manual-mode.
  - If not in auto-mode, the system engages ride-height using the previously saved ride-height settings. If auto-pressure-regulation is enabled, the system enters auto-mode and maintains the airbag pressures automatically. If auto-pressure-regulation is not enabled, the system reverts to manual-mode after the airbag pressures are set. If the air tank pressure is too low (less than 135 psi), "Low Air" will be displayed and the system will remain in manual mode.
    - If any air bag pressure is at less than 30 psi, the system will initially attain pressures that are 10 psi greater than the ride height settings. The system will establish the desired ride height setting in approximately 15 seconds.
- **Medium Press** (between 1 and 3 seconds - "Set Ride Ht" is displayed)
  - If the system is in auto-mode, "Set Ride Ht" is not displayed and the system remains in auto-mode at the current settings.
  - If the system is not in auto-mode, it reads the current air bag pressures, saves these as the new settings, and then engages ride-height. If auto-pressure-regulation is enabled, the system enters auto-mode and maintains the air bag pressures automatically. If auto-pressure-regulation is not enabled, the system reverts to manual-mode after the air bag pressures are set.
  - If the airbag pressures are outside the allowed range for ride height (30-120 psi) "Range" will be displayed and the system will not accept the new settings.
- **Long Press** (greater than 3 seconds - "Edit Options" is displayed)
  - The system enters option-mode to allow editing of the system options. Use the right-front buttons to select an option, the left rear buttons to change the option-setting.
  - Press the ride-height button to exit option editing and to return to the previous operating mode. If system was in auto-mode but "Auto" is now disabled, it returns to manual-mode.

### Warranty Information

1. All goods come with a one year manufacturer's warranty against defects.
2. Warranty will be void if the strut is altered for any reason and/or adapted to applications other than those suggested.
3. Any abrasions or rub marks on the spring portion of the strut will not be covered under warranty. The customer is responsible for all repair charges.
4. Driving at a low PSI can cause the strut to bottom out. Repeated bottoming out can cause the strut to fail. Failure resulting from repeated bottoming out is not covered under warranty.
5. The customer is responsible for all shipping costs to Air Lift Company for all warranty claims.
6. Please call tech support at 1-800-248-0892 before shipping a product to Air Lift Company.



### Thank you for purchasing Air Lift Products

Mailing Address:  
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P.O. Box 80167  
Lansing, MI 48908-0167

Street Address:  
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For Technical Assistance call 1-800-248-0892

*"The Choice of the Professional Installer"*



EasyStreet Digital Controller  
Kit No. 27630 175 p.s.i.  
Kit No. 27631 145 p.s.i.

MN-606  
(09610)  
ECR 5787

*Please read these instructions completely  
before proceeding with installation*

*Failure to read these instructions can result in mis-installation*

### Installing the Digital Controller

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### Operational Instructions

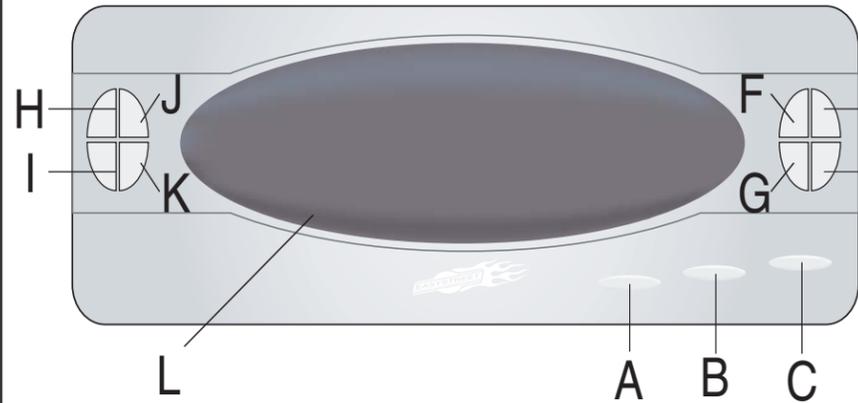
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### WARNING:

**In case of battery failure- unplug the controller  
before jump starting vehicle!**

## ECU Diagram



- A. All Lowered
- B. Ride Height and Access Menu Features
- C. All Raised
- D. Right Rear Deflate
- E. Right Rear Inflate
- F. Left Rear Inflate
- G. Left Rear Deflate
- H. Left Front Inflate
- I. Left Front Deflate
- J. Right Front Inflate
- K. Right Front Deflate
- L. Display Screen

### How to "tune" your ECU.

- Press and hold the "B" button for three seconds until the menu is accessed.
- Press the "J" button to scroll through the menu options until you see "Tune".



- Press button "F" to turn the tune function on.
- Make sure your tank is full. Check to ensure all is clear for the system to be cycled. Press button "B". Your System should now be tuning.



### How to set your "Ride Height".



- Make sure you have your system tuned. "See Above"
- In Manual Mode lift your vehicle to your desired Height and pressure.



- Hold "B" for two seconds until "Ride" Appears on the screen. These pressures are now set as your ride height.

## Operational Instructions

### Three Basic Operation Modes:

<b>Manual-Mode</b>	The system displays the actual airbag pressures, and the user controls the pressure manually.
<b>Auto-Mode</b>	The system displays the pressure settings and automatically maintains the prescribed airbag pressures.
<b>Option-Mode</b>	The user can examine and change all option settings.

The system keeps the user's option settings in non-volatile memory so that they will be maintained each time the system is powered up. On power-up, the options settings are read and acted on appropriately.

### Settings:

<b>Ride Ht</b>	The system will immediately restore the airbag pressures to the saved setting values on power-up.
<b>Auto</b>	When ride-height is selected (either through "Ride Ht" option setting or user selection during operation), the system will automatically maintain the airbag pressure at the current settings.
<b>Leak</b>	The system will display detected leaks in any of the airbag circuits. A leak is shown by the letter "L" next to the pressure reading.
<b>Volts</b>	The display will show the system voltage. If both "Volts" and "Tank" are enabled, the display will alternate between them every 20 seconds.
<b>Tank</b>	The display will show the current tank pressure. If both "Volts" and "Tank" are enabled, the display will alternate between them every 20 seconds.
<b>Bright</b>	Controls the display intensity. If the display intensity is changed while it is dimmed automatically by the vehicle lights connection, it will remain at the selected brightness until the next time the vehicle lights are turned on.
<b>Seq</b>	The system will perform pressure regulation on the airbags sequentially (left front, right front, left rear, right rear). If not enabled, the system will simultaneously adjust all airbag pressures.
<b>Tune</b>	To use the TUNE function, the tune option must be set to ON and it must be displayed when the ride height button is used to exit option-mode. The TUNE function will test the response of the system by exercising the airbags individually. The results are stored by the system for use in accurately controlling airbag pressures. The TUNE function must only be accomplished in a stationary vehicle on level ground.

If **Ride Ht** is enabled, the system will set the airbag pressures to the saved setting values on start-up. If **Auto** is enabled, the system will then enter auto-mode. If **Auto** is not enabled, the system will then go to manual-mode after the pressures are properly set.

### User Interface:

#### Front and rear button groups:

- These eight (8) buttons open the corresponding solenoid valve when pressed.
- In auto-mode, the system returns to the manual-mode if any of these buttons are pressed.
- In option-mode, the right-front buttons scroll through the options, while the left-rear buttons modify the displayed option's value.

#### All-up/all-down buttons:

- Open all fill or dump solenoid valves when pressed.
- In auto-mode, the system returns to manual-mode if either of these buttons are pressed.

## Checking the System

1. Inspect all air line connections with a solution of 1/5 dish soap to 4/5 water. Should a leak be detected in a push-lock-fitting, reinstall the air line to the fitting. Make sure air line is cut off squarely and that the air line is completely pushed into the fitting.
2. If the compressor or the solenoid fails to function, check the 20 AMP fuse and ground connection. Repair and replace as necessary.

## To Add a Second Compressor

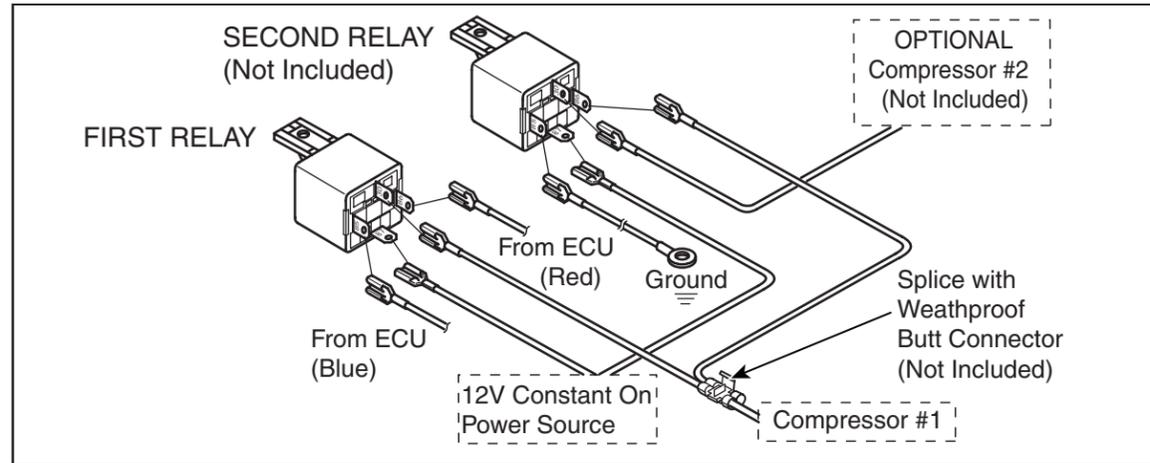


Figure 12

## Troubleshooting Guide

Problem	Cause	Solution
Compressor doesn't run.	There is a blown fuse, bad ground, or poor electrical connections.	Replace the fuse, check the ground wire, or check the compressor connector.
Solenoid doesn't work.	There is a blown fuse or poor electrical connection.	Replace the fuse or check the solenoid connector.
Compressor runs all the time.	The compressor relay is defective or there is a leak.	Replace the relay or locate the leak and repair.
Vehicle does not maintain ride height.	The vehicle is overloaded.	Remove excess load from the vehicle.
Nothing happens when the vehicle is started.	There is a blown fuse or a poor connection.	Replace the fuses and check the electrical connections.
The display does not light up.	There is a blown fuse or a poor connection.	Replace the fuses and check the electrical connections.

## Installing the Compressor and Manifold

1. Attach the filter to the port on the end of the compressor (Figure 1).
2. Attach air fittings to the remaining three ports on each manifold (Figures 1 and 8).
3. Select a rigid mounting location on your vehicle's frame or crossmember that shields the compressor from the elements and heat sources (Figure 1).
4. Attach the compressor to the frame rail or crossmember using Figure 1 as a guide.
5. Attach the brackets to the manifold using the provided screws.
6. Attach the brackets to the chosen mounting location using the provided self-tapping screws.

**NOTE:** The compressor and manifolds must be mounted within reach of the wires when the wiring harness is plugged in.

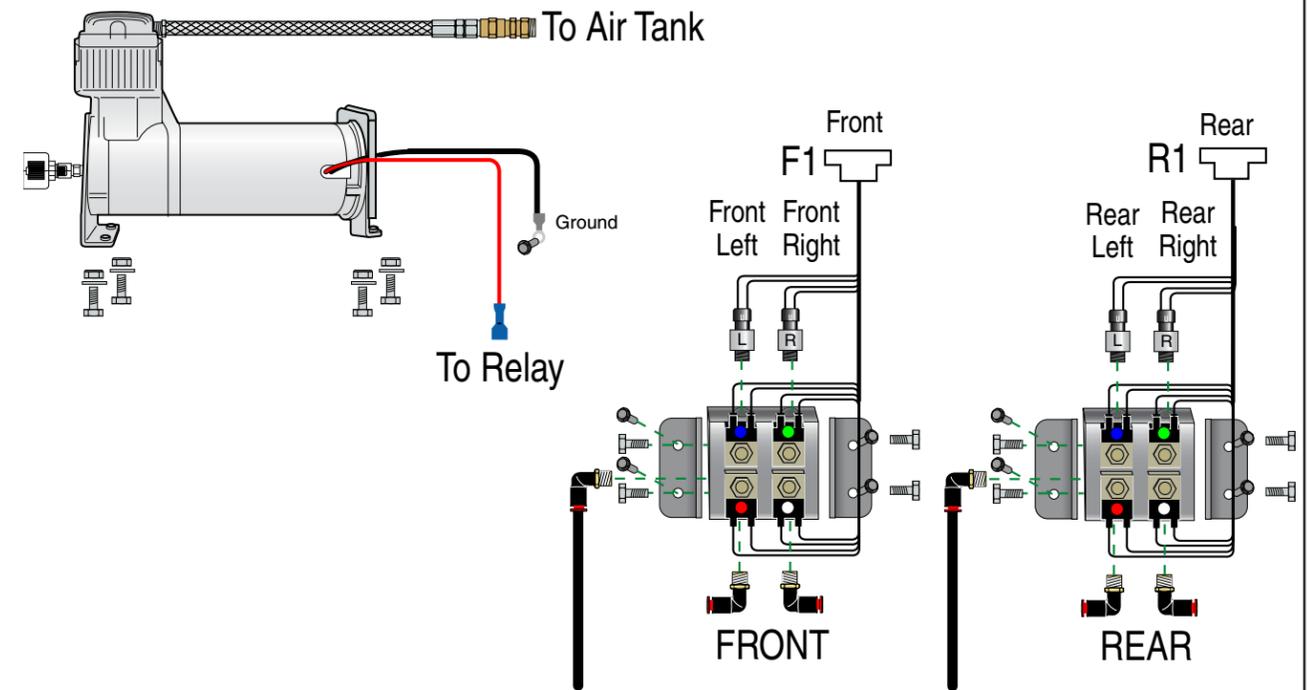


Figure 1

	1	2	3
<b>Compressor</b>	Centerpunch and drill four 1/4" diameter holes using the compressor feet as a template.	Attach using four supplied screws.	Fasten using four supplied washers and nuts.
<b>Manifold</b>	Centerpunch and drill two 3/16" diameter holes for each using the manifold as a template.	Attach using the supplied lock washers and bolts.	
<b>CAUTION</b>	Mount the compressor and manifolds at least 6" from any heat sources. DO NOT mount the compressor or the manifolds in the engine compartment.		

## Installing the Air Tank and Components

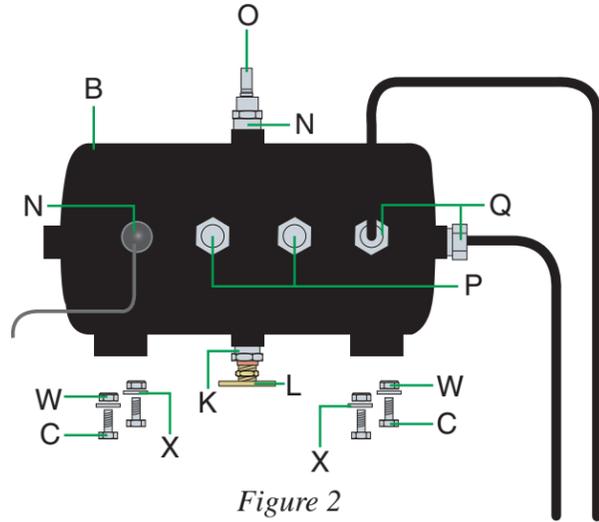


Figure 2

**IMPORTANT:** Depending on the orientation of the tank when it is mounted, the fittings may go into different ports on the tank. The drain valve must always be put into the port facing downwards (Figure 2).

**IMPORTANT:** Apply the provided thread sealant to all of the air tank fittings that have not been pre-coated with sealant.

**IMPORTANT:** When choosing a mounting location for the air tank, be sure that there is ample room for the air lines and that they will be clear of any heat sources.

1. Attach a 1/2" x 1/2" tube elbow to the the other end.
2. Attach a 1/2" x 1/8" bushing to the port of the air tank that will be facing upwards and attach an inflation valve to the port.
3. Attach a 1/2" x 1/4" bushing to the port on the air tank that will be facing downwards and attach the drain valve to this bushing.
4. Attach two 1/2" hex head pipe plugs to two of the four ports on the front of the tank.
5. Attach a 1/2" x 1/8" bushing to one of the remaining ports on the front of the air tank. Attach the transducer to this bushing.
6. Attach a 1/2" x 1/2" tube elbow to the remaining port.
7. Mount the air tank in the chosen location using the provided bolts, flat washers and nyloc nuts.

## Installing the Electrical Components

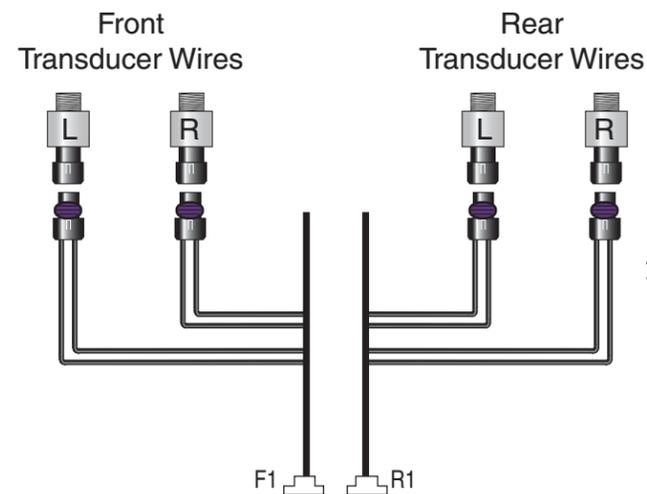


Figure 3

1. Run the harness from the dash to the manifold/compressor location.

**NOTE:** Place a grommet or silicone sealant around any holes that the harness passes through to protect it from abrasive surfaces.

2. Connect the transducer wires to the corresponding transducers on the manifolds (Figure 3).

**IMPORTANT:** Ensure that the cable seal is in place before connecting the transducer wires.

Failure to make sure the cable seal is in place will promote corrosion of the connectors and will cause premature failure of the Digital Control System.

## Mounting the Display Panel

1. Determine the mounting location of the display panel.

**NOTE:** The display panel can be mounted by either placing the bracket on top of something or by attaching the bracket to hang below something (Figure 10).

2. Cut the velcro into 1" squares and attach two "hook" pieces of the velcro to the mounting bracket and attach the two corresponding "loop" pieces of the velcro to the back of the display panel (Figure 10).

3. Stick the display unit to the mounting bracket.
4. Attach the mounting bracket to its mounting location in the same manner. Place three "hook" pieces of the velcro onto the bracket and place three "loop" pieces of the velcro onto the chosen mounting location (Figure 10).
5. Stick the bracket to the mounting location.

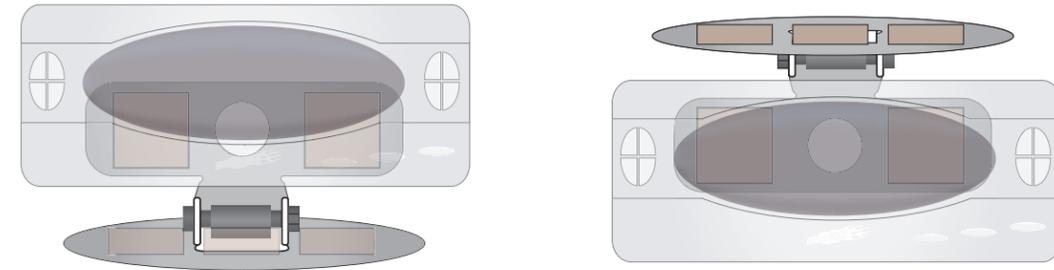


Figure 10

## Attaching the ECU and Display Panel

1. Choose a mounting location inside the cab of the vehicle for mounting the ECU.

**NOTE:** This can be under the dash panel.

2. Attach the bracket to the chosen mounting location using the provided screws (Figure 11).

3. Attach the brackets to the display panel using the provided screws and attach the bracket to a chosen mounting location.

4. Tighten the ECU and display panel hardware.

5. Connect one end of the CAT 5 cable to the ECU and the other to the display panel (Figure 11).

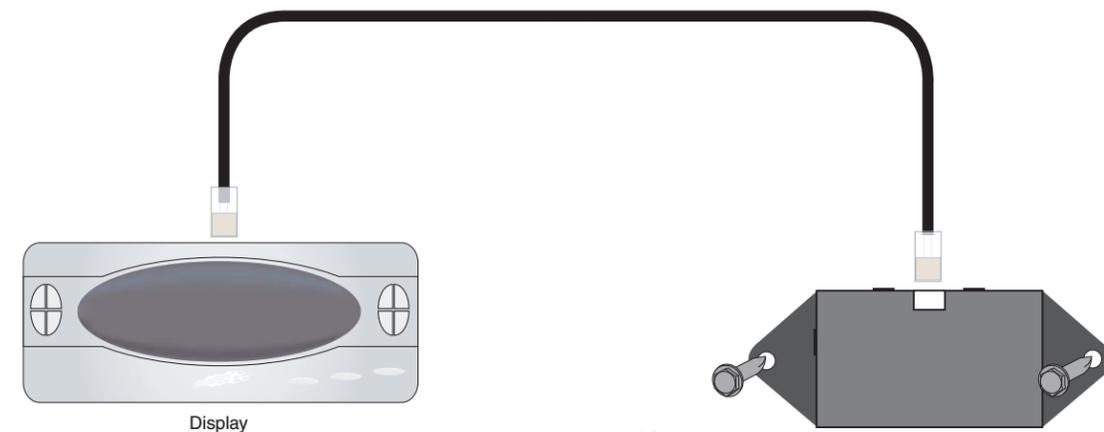


Figure 11

## Attaching the Air Lines

1. Insert three 3/8" x 1/2" air fittings into the ports of the manifolds. There are two ports on one side and one port on the other (Figure 9).
2. Using a standard tube cutter, a razor blade, or a very sharp knife, squarely cut two pieces of 1/2" air line to go between each of the front air springs and the two ports of the manifold (Figure 9).
3. Repeat step 2 for the rear air bags with the rear manifold.
4. Cut a length of air line to go between the front manifold and an end port of the air tank.
5. Cut another length of air line to go between the rear manifold and one of the front ports of the air tank.

**NOTE:** A definite click will be heard/felt when the air line is properly seated. The air line should go in approximately 9/16".

6. Attach the fitting at the end of the braided leader hose on the compressor to the end port of the air tank (Figure 9).

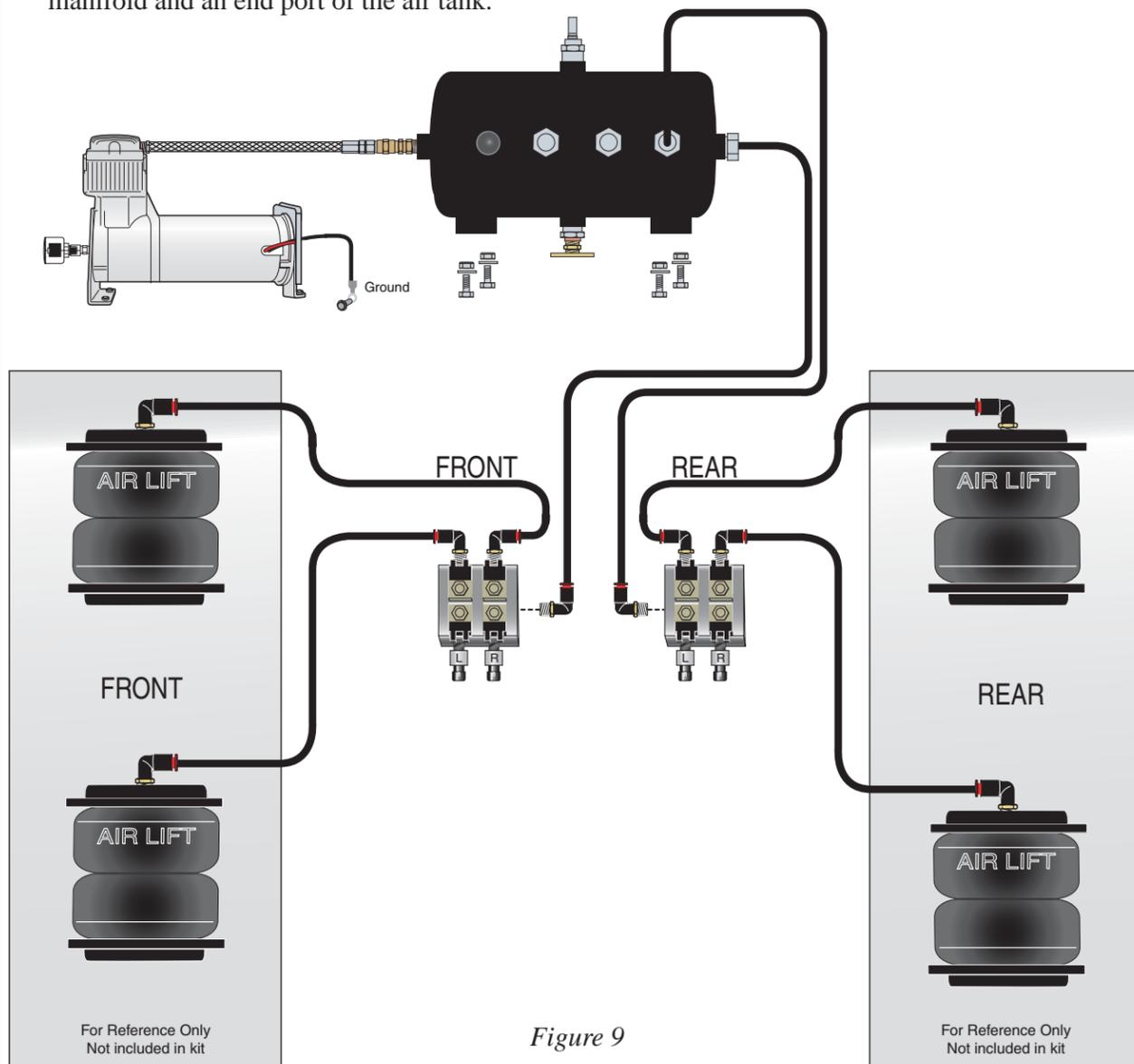


Figure 9

## Installing the Electrical Components

3. Connect the transducer with the three black wires to the open port in the front of the air tank as shown in Figure 4.
4. Attach the corresponding connectors from the ECU to the manifold (Figure 5).
5. Using a butt connector, attach the 12 gauge wire from terminal 30 on the back of the relay to one end of the 30 amp fuse holder (Figure 6).
6. If choosing to use the ring terminal, attach it to the other end of the fuse wire (Figure 6).
7. Choose an appropriate 12+ volt source on the vehicle.

**NOTE:** A direct connection to the battery is suggested.

8. Attach a ground terminal to the small white wire coming out of the back of the ECU/Display Connector (Figure 7).
9. Using a butt connector, attach the 5 amp fuse to the small red wire on the ECU and then attach the wire and fuse to an accessory terminal in the fuse panel.

**IMPORTANT:** Power to the ECU must connect to an accessory source. The accessory source powers the radio, sunroof and other items powered through the accessory circuit and NOT the ignition circuit. Failure to connect to an accessory source WILL CAUSE THE DISPLAY TO FAIL and will void the warranty.

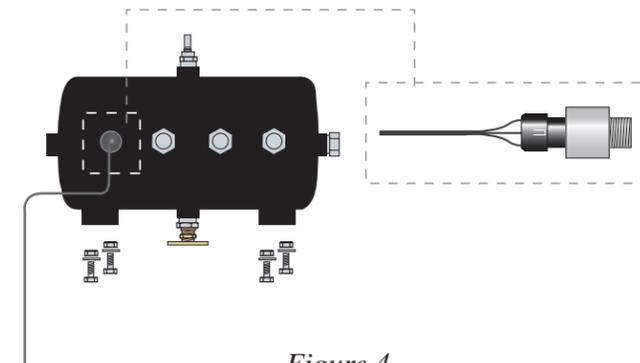


Figure 4

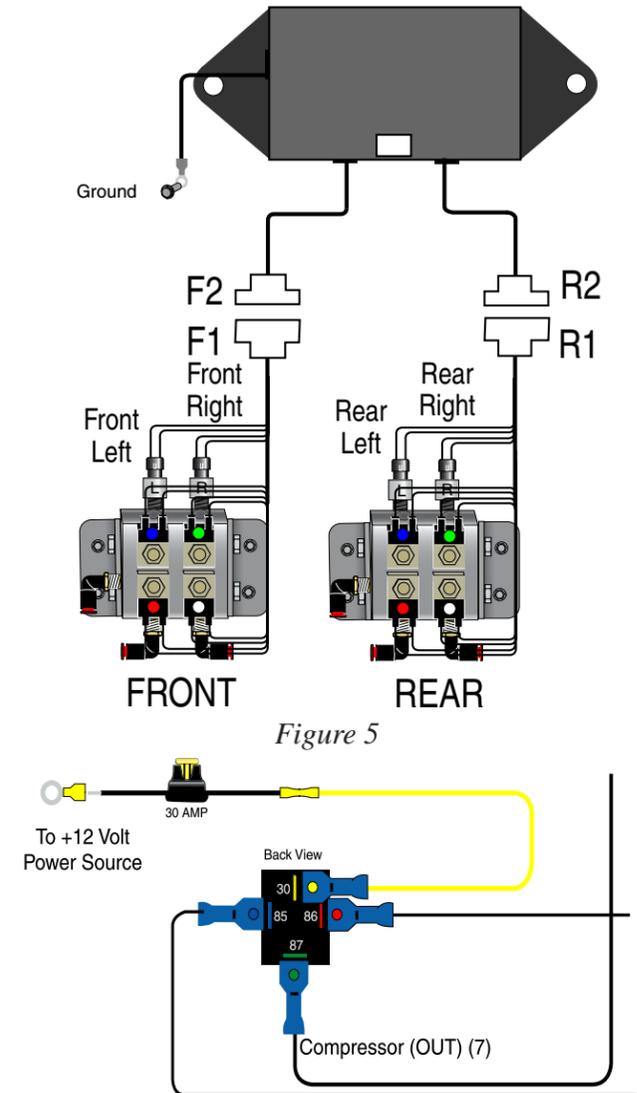


Figure 6

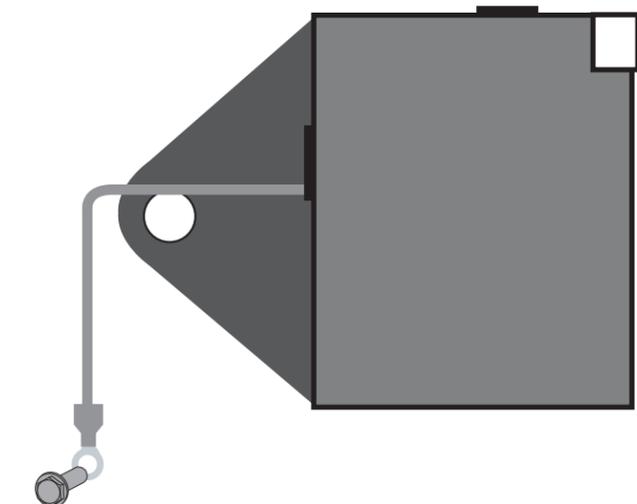


Figure 7

# Kit Diagram

## Hardware List

Item	Part No.	Description	Quantity
A	16380	Compressor	1
B	10991	5 Gallon Air Tank	1
C	17188	3/8" - 16 x 1.25" Bolt	4
D	20966	1/2" Air Line	40 ft.
E	27025	Digital Controller 175 psi	1
or	27028	Digital Controller 145 psi	1
F	25033	Dig. Cntrl. ECU/Harness 175psi	1
or	25034	Dig. Cntrl. ECU/Harness 145psi	1
G	25035	Manifold	2
I	24001	Pressure Transducer/Sensor	1
J	26440	Display to ECU Line	1
K	21247	1/2" MNPT x 1/4" FNPT Bushing	2
L	21754	Drain Cock	1
N	21251	1/2" MNPT x 1/8" FNPT Bushing	2
O	21366	Inflation Valve	1

Item	Part No.	Description	Quantity
P	21193	1/2" Hex Head Pipe Plug	2
Q	21370	1/2" MNPT x 1/2" Tube Elbow	2
R	10530	Air Line Cutter	1
S	21637	3/8" MNPT x 1/2" Tube Elbow	6
T	17132	Self-Tapping Screw	2
U	23586	Thread Sealant	1
V	17263	Self-Tapping Screw	10
W	18435	3/8" -16 Nyloc Nut	4
X	18444	3/8" Flat Washer	8
Y	10415	Display Mounting Bracket	1
Z	10519	Velcro	1
AA	10422	Manifold Mounting Brackets	4
CC	17320	1/4" - 20 x 3/8" Screw	8

# Kit Diagram

Installing the Digital Controller

Installing the Digital Controller

**IMPORTANT:**  
Power to the ECU must connect to an accessory source. The accessory source powers the radio, sunroof and other items powered through the accessory circuit and NOT the ignition circuit. Failure to connect to an accessory source WILL CAUSE THE DISPLAY TO FAIL and will void the warranty.

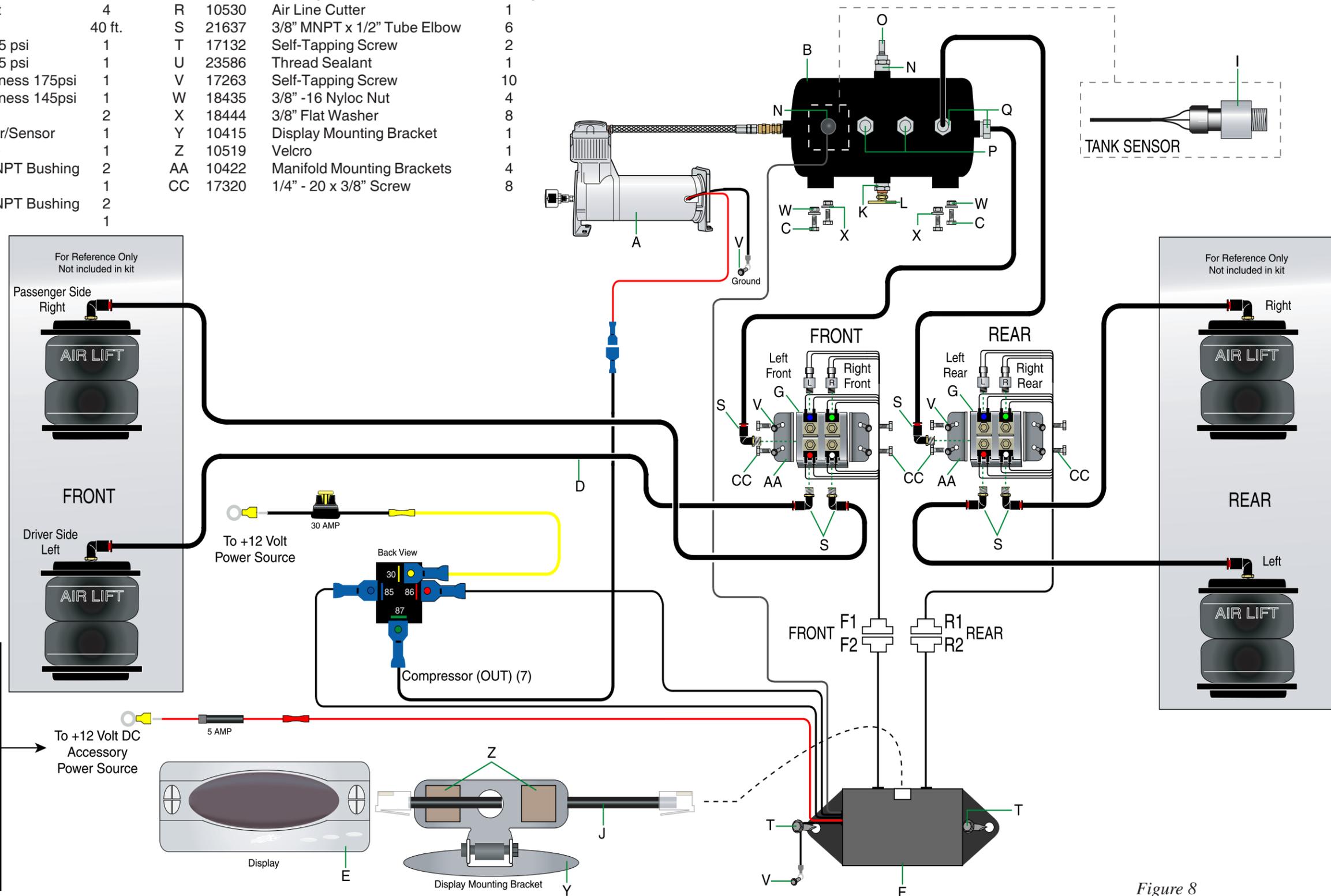


Figure 8