Thank you for choosing a RideTech air suspension control system. We are committed to providing the best experience possible throughout the process of getting your car on air.

Our commitment doesn’t end with your purchase, in fact, it has only begun. This guide should provide you with the information you need to properly install and set-up your suspension control system.

However, if you find yourself having difficulty or if you have a question that isn’t covered in this book, please call our tech department.

Tech Line: 812-481-4969

In addition to phone support, our web site also provides a wealth of helpful product / install / set-up information.

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Mounting the Compressor

- All of our compressors are sealed for moisture and dust resistance so they can be mounted anywhere on the vehicle, though it is best to mount it in a place out of direct contact with rain and snow. It is OK to mount it underneath the vehicle, but keep it inside the frame rails away from water and debris thrown off the tire.
- This is a dry compressor; therefore it is maintenance-free and can be mounted in any position.
- It is best if mounted to something solid to reduce vibration and noise. If mounting it to sheet metal or the bed of a truck, use sound-deadening material between the compressor and the mounting surface.
- Use the rubber grommets supplied on the feet of the compressor to reduce vibration.
- Attach the grey wire from the main power harness to the black wire on the primary compressor. The red wire connects to +12V.
- Thomas Compressors (black) will require a 20 amp fuse (each).

Mounting the Air Tank

- The air tank can be mounted anywhere on the vehicle in any position, so long as the sensor is not pointed down.
- There is an 1/8” port in the tank that will accept the tank pressure sensor.

Mounting the RidePro Air Valves

- The valves, like the compressor, are sealed and can be mounted in the same locations. Although, if the vehicle will be exposed to freezing temperatures, it is a good idea to mount them in the engine bay if possible to reduce the possibility of freezing.
- They can be mounted in any position.
- Attach the ground strap to a good, clean ground (preferably the frame).
- The exhaust port will be left open.
- The valve is held closed with the pressure in the tank. If tank pressure drops below air spring pressure they will equalize, deflating all 4 air springs.

NOTE:
The RidePRO system switches ground on the compressors; the compressors are provided power at all times.

IF YOU ARE RUNNING A 2 COMPRESSOR SYSTEM, THE 2ND COMPRESSOR WILL NEED TO BE TURNED ON IN THE SETUP MENU! PAGE 11 WILL SHOW YOU WHERE TO TURN IT ON. YOU MAY GET ERROR #143 BEFORE YOU TURN COMPRESSOR #2 ON. IF YOU GET THIS ERROR, GO TO THE SETUP MENU AND TURN COMPRESSOR #2 ON. THE ERROR WILL CLEAR AFTER THE IGNITION IS CYCLED.

IF YOU ARE RUNNING A 2 COMPRESSOR SYSTEM, THE 2ND COMPRESSOR WILL NEED TO BE TURNED ON IN THE SETUP MENU! PAGE 11 WILL SHOW YOU WHERE TO TURN IT ON.
Routing the Airline and Fittings
- Make all airline cuts with a razor or tubing cutter (part # 90001081). The cut must be clean and straight or it will not seal.
- All fittings are DOT approved push-to-connect style. They are very simple to use and are reusable. Firmly push the airline into the fitting to attach. To release the airline push the collar on the fitting back towards the fitting and pull the airline out.
- **Use thread sealant on all fittings. The white compound that is on the fittings is an anti-gauling compound.**
- Do not over-tighten the fittings. This could result in breaking the fitting or damaging the air spring.
- All of our airlines are DOT approved so they are very strong, but keep them away from any sharp edges. Also, when passing through a hole in the frame use a grommet.
- Keep away from intense heat, including mufflers and exhaust manifolds.
- Use zip ties or other fasteners to secure the airline.

Mounting the Air Pressure Sensors
- These sensors are voltage based and do not need to be grounded.
- Use thread sealant when installing pressure sensors in valve block.
- Sensors cannot be pointed down (debris can collect and cause false readings)

Mounting the ECU (Electronic Control Unit) & WCU (Wireless Control Unit)
- The ECU is water proof and may be mounted in the engine bay or under the vehicle.
- The WCU is **NOT** water proof and needs to be mounted inside the vehicle. It should be mounted in a location where it can be accessed with ease.
- The WCU is wireless device, do not mount it fully enclosed by metal. Doing so will reduce the wireless range.

Insert PPM (Power Port Module) into Power Port or Cigarette Lighter
- Make sure the Numbers are lit up.
- The PPM has a USB port in the side that can be used to charge your phone.
Ride Height Sensors

External RidePRO-HP Sensor Installation

• The RidePRO-HP system uses 4 height sensors (one at each wheel). They are weather proof and may be mounted in any position as well as “clocked” in any position. (There is not a difference between the left and right sensors.) These sensors are typically mounted to the chassis / frame rail.

• A linkage with rubber ends connects the sensor arm and a suspension component. On most front suspensions, the linkage will attach to the upper or lower control arm. On most rear suspensions, it will attach to the axle or control arm.

• The main goal when mounting the sensor is to achieve as much sensor rotation as possible without exceeding the sensors limits.

• Although the sensor arm will rotate 180 degrees, it must remain in the middle 90 degrees throughout suspension travel. See diagram below for sensor travel limits.

• It may be necessary to shorten the sensor arm and drill a new hole to ensure the arm is rotating enough during suspension travel to accurately determine vehicle height.

• The sensor arm can also be removed from the sensor and clocked in four different positions. It may also be necessary to bend the sensor arm and/or linkage to achieve proper clearance and alignment.

• The sensor will be mounted to the frame using ¼” self tapping screws or bolts. A special shouldered bolt is supplied to attach the rubber rod ends to the suspension and the sensor arm; this will avoid over tightening.

• Make sure the sensor has adequate clearance from all suspension components throughout suspension travel. Check tire clearance, lock to lock and throughout suspension travel.

Travel Limits

If the electrical range of travel is exceeded, the system may function erratically or not at all.

Also note that if the sensor has very little travel, the system may not perform to its potential.

It may be necessary to shorten the sensor arm to increase travel.
1- The linkage rod can be cut to length using side cuts.

2- The linkage rod can be bent by hand. This can come in useful when trying to get clearance on an obstacle.

3- After getting the linkage cut to length and shaped, line up the end with the end link.

4- Push the end of the linkage into the end link. The linkage doesn’t require anything to hold it into the end link.

5- Once both sides of the linkage have been finished, secure the linkage to the sensor and suspension.

Sensor Mounting Examples

69 Camaro Front
Rear Trailing Arm
58-64 Impala Front

65-70 Mustang Rear
Triangulated 4-Link Rear
C-10 Truck Rear
MOUNT THE MAIN UNIT:
1. Mount the base flat to the vehicle surface (do not bend the base).
2. Secure the base with self-tapping screws or bolts.
3. If optional cover is used, secure the cover to the airpod base using the supplied screws.

CONNECT AIR LINES:
1. Airline cuts must be straight and clean - use a razor blade or tubing cutter. (part # - 90001081)
2. All fittings are DOT-approved, reusable, push-to-connect style. Firmly push the airline into the fitting to attach. To release the airline, push the collar on the fitting back towards the fitting and pull the airline out.
3. All of our airlines are DOT-approved so they are very strong. Secure the airline with zip ties, keep them away from any sharp edges, and when passing through a hole in the frame, use a grommet.
4. Keep away from intense heat including mufflers and exhaust manifolds.

WIRELESS CONTROL UNIT WCU:
1. The Wireless Control Unit (WCU) must be mounted in a dry location where it can be accessed with ease.
2. Connect the supplied cable to the WCU and AirPod.

CONNECT POWER HARNESS:
1. Connect the red power wire directly to the battery.
   Use included fuse within 18" of battery.
   3 Gallon - 30 amp fuse
   5 Gallon - 40 amp fuse
2. Connect the yellow ignition wire to switched 12v.
   (Fuse Panel is the best location)
3. Connect the black wire to chassis ground.

CONNECT RIDEPRO-HP SENSORS
(if equipped):
See RidePro-HP section for more information on installing and calibrating height sensors.

STOP: Remove the negative battery cable before beginning installation.
System Control

This system can be controlled 5 ways; PPM, Mobile App, Laptop, optional Keyfob Remotes, or optional dedicated mobile device. This section will cover all control options.

The RidePro X-HP will need to have gone through setup before the PPM or optional Keyfob Remotes will work.

PPM
• plugs into your vehicles Power Port (cigarette lighter)
• allows the user to select from any of the 3 presets
• works with the key on or off.
• built in USB port for charging devices
• can only be used after the control system has been through calibration and had the presets saved

Keyfob Remotes
• allows the user to select from any of the 3 presets
• works only with the ignition off
• can only be used after the control system has been through calibration and had the presets saved

Mobile App, Bluetooth Display, & Laptop
• system setup can be completed with any of the 3 devices
• 4 corner manual control at any time
• allows the user to select from any of the 3 presets
• system options can be changed
• pressure (RidePro X) and height sensor (RidePro HP) displayed
• tank pressured displayed
• system errors can be viewed
• works only with the ignition on

The system control is the same between the 3 devices with the only difference being the ability to link a smartphone to the WCU using a laptop.

Connecting a Laptop to the WCU

2. Turn the key on to power up the RidePro X-HP.
3. Use a USB to Mini-USB cord to connect the laptop to the WCU. The Mini-USB port is to the left of the wires harness plug of the WCU. The first time you plug into the WCU, device Driver software will be installed.
4. Open the Software, “Search for controller” will pop up. Select “Yes”.
5. “E4 Found” will pop up, select “OK”. This will take you to the Main Screen.

You will be able to use the Laptop to run your vehicle through calibration, learn the PPM, and change the setup settings. Pages 8-15 give an overview of using the Mobile App and Laptop Software. Don’t forget we can learn a mobile device from here as well.
1. Select the App Store icon on your screen.

2. Using the search feature, type in ridetech. There will be a list that pops up of different names, select the ridetech ridepro x-hp.

3. Touch the GET button to download the RidePro X-HP app to your phone.

4. After the App loads, open it by touching it on your screen.

The RidePro X-HP needs to be installed and powered up to complete the following steps.

5. Select the Settings icon on your phone screen.

6. Select Bluetooth from the settings menu.

7. Turn the Bluetooth On if it is off. The switch will be green. If it is not green, slide the switch to the right, turning it green.

8. Open the RideTech App on your phone. After a few seconds a RT#### will pop up under Available Devices.

9. The WCU can have either a Small Hole or Button beside the plug. The button is flush with the case, but can be pushed with your finger. If it has the small hole, find something small enough to fit the hole. We use a paperclip that has been straightened out. Peel off the “CAUTION - Excessive Force May Cause Button Failure” Decal to expose the hole.

10. If the WCU has the button, use your finger to push the button until you feel it click. If it has the small hole, insert the paperclip straight in the hole. Push straight in LIGHTLY, until you feel a click through the paperclip. You do NOT need to use a lot of pressure to push the button. Excessive pressure will damage the unit.

11. Touch the RT#### (this number is unit specific and will vary) number that is displayed on the “Available Devices” screen. This must be done while the Green light is flashing rapidly. It flashes rapidly for 12 seconds.

12. Once it is linked, you will see the Main Screen and the green light will go solid when the unit is paired with your phone.

Demo Mode.
If the App is in Demo Mode, the Available Devices Screen will not show up when you open the app. You will know the App is in Demo Mode if all the numbers are counting up. You will need to stop the Demo mode by killing the App to get it into pairing mode.
Installing App & Linking Android

1. Select the Play Store icon on your screen.
2. Using the search feature, type in **ridetech**. There will be a list that pops up of different names, select the **Ridetech RidePro X-HP**.
3. Touch the INSTALL button to download the RidePro X-HP app to your phone.
4. After the App loads, open it by touching it on your screen.

The RidePro X-HP needs to be installed and powered up to complete the following steps.

5. Select the Settings icon on your phone screen.
6. Turn the Bluetooth On if it is off. The switch will be blue. If it is not blue, slide the switch to the right turning it blue.
7. Open the RideTech App on your phone. When you open the App for the first time "Allow RideTech to access this device's location" will pop up, select either choice. We do not monitor the device location.
8. After making your choice for the Location Service, you should see **Image 8**. If you do not see it, make sure the WCU is plugged in and the system is turned on.
9. The WCU can have either a Small Hole or Button beside the plug. The button is flush with the case, but can be pushed with your finger. If it has the small hole, find something small enough to fit the hole. We use a paperclip that has been straightened out. **Peel off the “CAUTION - Excessive Force May Cause Button Failure” Decal to expose the hole.**
10. If the WCU has the button, use your finger to push the button until you felt it click. If it has the small hole, insert the paperclip straight in the hole. Push straight in LIGHTLY, until you feel a click through the paperclip. **You do NOT need to use a lot of pressure to push the button. Excessive pressure will damage the unit.** The Green Light on top of the ECU will start flashing rapidly. The Green Light will flash rapidly for 12 seconds.
11. Touch the RT#### (this number is unit specific and will vary) number that is displayed. This must be done while the Green light is flashing rapidly. It flashes rapidly for 12 seconds.
12. Once it is linked, you will see the Main Screen and the green light will go solid when the unit is paired with your phone.
INFLATE & DEFLATE BUTTONS
You have full manual control at any time. To inflate an air spring simply press and hold the corresponding \( \uparrow \) button. To deflate an air spring simply press and hold the corresponding \( \downarrow \) button. The corresponding air spring will be inflated or deflated until the button is released.

MAIN CONTROL SCREEN
The Main Control Screen displays information about the pneumatic suspension system including:
- individual pressure for each corner of the vehicle
- tank pressure
- preset indication
- bar graph for each corner. If the system is running in pressure only (RidePro X), the bar graph reflects the air pressure. If the system is equipped with ride height sensors (RidePro HP), the bar graphs reflect the ride height sensor position.

The Main Control screen also allows adjustment of the following:
- manual control of individual corner air pressure/vehicle height
- preset selection
- System parameters and additional information via the Menu system

MANUAL CONTROL
The user has full manual control of inflating and deflating the system at all times.
Press a Red up arrow button to inflate the corresponding corner.
Press a Yellow down arrow button to deflate the corresponding corner.
Multiple buttons can be pressed simultaneously on the Mobile APP. The laptop has a feature that allows both air springs to be inflated or deflated simultaneously.
Inflate and deflate buttons can be pressed simultaneously.

PRESETS
There are three user configurable Presets. The Presets can be saved to whatever vehicle height you wish. Typically Preset 1 is deflated vehicle height, Preset 2 is Ride Height, and Preset 3 is High Height.

Presets are disabled until Calibration has been successfully completed.

After Calibration, presets can be saved by manually inflating or deflating the vehicle to the desired height, then pressing and holding a preset button for 5 seconds. A dialog screen will be displayed stating which preset has been saved.

SETTING PRESETS
Use inflate and deflate buttons to obtain desired vehicle height. To store the height as a preset press and hold the preset button for 5 seconds or more. The screen will display "Preset # SET" when completed. Press the OK button to get back to the Home Screen.

Press and hold for over 5 seconds to store current ride height as a preset.
The Menu provides the ability to adjust system parameters to meet individual’s tastes, as well as displaying useful information.

One may exit the Menu at any time by pressing the “Home” button.

---

**Go To P2 on Start:**
By choosing Yes, the vehicle will return to Preset #2 whenever the ignition is cycled. This is typically used to set the vehicle back to Ride Height anytime the vehicle is started. **FACTORY DEFAULT IS “OFF”**.

**Use Primary Compressor:**
Selecting Yes here enables control of the primary air compressor. **FACTORY DEFAULT IS “ON”**.

**Use Secondary Compressor:**
Selecting Yes here enables control of the secondary air compressor. **FACTORY DEFAULT IS “OFF”; IT WILL NEED TO BE SWITCHED TO “ON” IF YOU ARE RUNNING 2 COMPRESSORS!** YOU MAY GET ERROR #143 BEFORE YOU TURN COMPRESSOR #2 ON. IF YOU GET THIS ERROR, GO TO THE SETUP MENU AND TURN COMPRESSOR #2 ON. THE ERROR WILL CLEAR AFTER THE IGNITION IS CYCLED.

**Compressor on PSI:**
This allows one to select at what pressure the compressor will be turned on. By default, the system turns the compressor on when the tank pressure drops below 135psi. **FACTORY DEFAULT IS “135”**.

**System Accuracy:**
This allows one to adjust how accurately the system reaches presets. Though High Accuracy will reach preset values extremely closely, it may take longer than one desires. In this case, one could choose Standard or Medium accuracy, which will allow the system to reach the preset destination quicker, but the physical height of the vehicle may be slightly off from the preset values. By default, the system is set to Medium Accuracy.
The Menu Set Points screen displays the saved Preset set points of each corner of the vehicle, as well as the current values for each corner.

If the system is running in air pressure only mode (RidePRO X), it will automatically display pressure (psi).

If the system is running in air pressure and height sensor mode (RidePRO HP), it will automatically display level sensor voltage.

The Menu Info screen displays information about the control system including:
- WCU SW: software version of the WCU
- WCU Boot: boot loader version of the WCU
- WCU HW: hardware version of the WCU
- ECU SW: software version of the ECU
- ECU Boot: boot loader version of the ECU
- ECU HW: hardware version of the ECU
- Power Cycle: number of times the switched power has been turned on/off since the main power was connected
- App Version: version of the mobile application
The Menu Calibration screen allows the user to calibrate the system.

Though Calibration is not required for manual control of the system, Calibration is required to enable functionality of the Presets.

During Calibration, the system learns specific characteristics of the vehicle into which it is installed. This information is used by the system to accurately and efficiently reach preset destinations.

Make sure nothing is under the vehicle before performing calibration. To Calibrate the system, select “Yes”.

This screen will pop up after the sensors are calibrated. Use the Manual Up & Down Buttons to set your ride height. After you get your ride height set, hold the #2 for 5 seconds.

“Calibration Done” will pop up, select “OK”.

The Menu Error History screen displays any errors that have occurred, as well as the ignition cycle during which they occurred.
To learn a Smart Phone using a Laptop:
1. Open the RideTech App on your laptop.
2. Select the Phone #1 or #2 button shown below. “Please Connect Phone” along with a bar graph will appear at the bottom of the screen.
3. Touch the RT#### (this number is unit specific and will vary) number that is displayed on the “Available Devices” screen.
4. “Phone Learned” will pop-up, select Ok. It will return you to the Wireless Menu, touch the Home Button to return to the Main Screen.

The process of learning a PPM using a laptop, is the same as using a smartphone.
**Diagnostics**

The Menu Diagnostics screen can be used to diagnose problems/issues, specifically with the level sensor positioning during installation and/or the vehicle charging system.

Each corner can be manually inflated and deflated via the buttons surrounding the read out screen.

The readout screen displays the pressure and level sensor voltage (IF USING RIDE HEIGHT SENSORS) of each corner as well as the battery voltage in real time.

The top image is RidePRO-HP with ride height sensors. The bottom image is RidePRO-X without ride height sensors. If you have ride height sensors, it will display the voltage output of the level sensors. The range of the level sensors is 0.5 - 4.5 volts.

**Dump Tank**

The Menu Dump Tank screen provides a simple and easy way to completely drain an air storage tank for servicing or storage.

When the OK button is pressed all valves are opened, which exhausts the air from the tank to atmosphere. The compressors are disabled so the tank is not filled during this procedure.

The valves will remain open until tank pressure reaches 0 psi.

The compressors will remain disabled until the ignition is turned off then back on.

**Dump Tank**

Press OK to dump the tank.

Cycle the power to refill the tank.

OK  Cancel

Dump Tank has a secondary screen to verify you want to dump the tank.

**Dump Tank**

Are you sure? There is NO way to stop this.

Be sure no one is under the vehicle!

OK  Cancel
Calibration:

**ATTENTION!!!!** The vehicle **MUST** be running in order to calibrate this system!
By only turning the key on will **NOT** work!
Hooking it to battery charger will **NOT** work!

The vehicle must be running!

During the Calibration sequence, the RidePRO X-HP records information specific to the vehicle in which it is installed (inflate and deflate speed, if level sensors are present, how long the compressors take to fill the storage tank, etc.) The RidePRO X-HP then uses this information to attain the proper preset heights in the fewest possible steps, using the most intelligent method. For example, after calibration the RidePRO knows that the front of the vehicle is heavier and therefore slower than the rear, so it will inflate the front first then allow the rear to catch up just as the vehicle is achieving ride height.

**NOTE:** The RidePRO X-HP system is a very intelligent system. Attempting to calibrate this system on a non-running vehicle will cause errors.

Trying to hook the system up for a "TEST RUN"? When the system is powered up, it will work manually using the inflate and deflate buttons only. The preset buttons will not work until calibration is complete. **Calibration should not be run until vehicle is running and driving.**

---

### Calibration Steps: (items in red require user interface, other steps are automatically completed)

These steps will require the car to be running to ensure full battery voltage!

1. Start the vehicle
2. Allow the compressor/compressors to fill the tank (They will shut off @ 150psi)
3. Touch the MENU button to bring up the menu
4. Select the CALIBRATE button
5. Checking pressure sensors - locates and checks the air spring pressure sensors
6. Calibrate front up - sets the upper limit of suspension travel
7. Calibrate front down - sets the lower limit of suspension travel
8. Calibrate rear up - sets the upper limit of suspension travel
9. Calibrate rear down - sets the lower limit of suspension travel
10. System will return to the main screen, at this point you will need to set your 1,2,3 positions.
11. Do the #1 since the vehicle is already deflated. Hold #1 for 5 seconds or until the screen reads “P1 Saved”. Select “OK” to return to the main screen.
12. Set your desired ride height and hold #2 until “P2 Saved” pops up. Select “OK”.
13. Raise the vehicle to the extended height, hold #3 until “P3 Saved” pops up, Select “OK”
14. Calibration complete

---

### Calibration Steps: (items in red require user interface, other steps are automatically completed)

These steps will require the car to be running to ensure full battery voltage!

1. Start the vehicle
2. Allow the compressor/compressors to fill the tank (They will shut off @ 150psi)
3. Touch the MENU button to bring up the menu.
4. Select the CALIBRATE button
5. Checking pressure sensors - locates and checks the air spring pressure sensors.
6. Checking position sensors - locates and checks the level sensors
7. Calibrate front up - sets the upper limit of suspension travel
8. Calibrate front down - sets the lower limit of suspension travel
9. Calibrate rear up - sets the upper limit of suspension travel
10. Calibrate rear down - sets the lower limit of suspension travel
11. “Set P2” on main screen - set the vehicle to your desired ride height and hold #2 for 5 seconds
12. Calibration complete - select the “OK”. Display will return to the Main Screen.
<table>
<thead>
<tr>
<th>Compressor will not turn on.</th>
<th>Compressor will not turn off.</th>
<th>One air spring leaks down over a period of time.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diagnosis A:</strong> 12 volts not present at Red wire on compressor.</td>
<td><strong>Diagnosis A:</strong> Tank pressure reads 0 psi all the time or stays at the same pressure regardless of actual tank pressure.</td>
<td><strong>Diagnosis A:</strong> Leak between delivery port on valve block and air spring.</td>
</tr>
<tr>
<td><strong>Solution A:</strong> Check fuse and connections. (20 amp fuse on Thomas compressor) (30 amp fuse on Viair compressor)</td>
<td><strong>Solution A:</strong> 1. Check harness and plugs. 2. Replace pressure sensor.</td>
<td><strong>Solution A:</strong> Air springs almost never leak. Spray all fittings with soapy water. Tighten fitting and/or remove and replace thread sealant. Cut 1” off of end of airline and reinsert.</td>
</tr>
<tr>
<td><strong>Diagnosis B:</strong> 12 volts present at red wire on compressor but still doesn’t run.</td>
<td><strong>Diagnosis B:</strong> Tank pressure builds normally but will not reach 150psi.</td>
<td><strong>Diagnosis B:</strong> Exhaust valves leaking. Air seeps past exhaust valve and out exhaust port.</td>
</tr>
<tr>
<td><strong>Solution B:</strong> 1. Check connections between Black wire on compressor and Blue/Gray wire on ECU. Also check Black wire from ECU to Ground.</td>
<td><strong>Solution B:</strong> Replace compressor.</td>
<td><strong>Solution B:</strong> Usually caused by debris stuck on valve seat. Inflate and deflate several times or disassemble valve.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pressure reading are not moving, always reads 168 psi or 0 psi.</th>
<th>Height sensor bars read the incorrect corner.</th>
<th>Control panel switches do not activate the correct air spring.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diagnosis:</strong> ECU is not receiving a proper signal from the sensor.</td>
<td><strong>Diagnosis:</strong> Ex: When inflating RF air spring LF bar increases</td>
<td><strong>Diagnosis:</strong> Ex: LF switch actuates the RF air spring.</td>
</tr>
<tr>
<td><strong>Solution:</strong> 1. Check pressure sensor harness connections.</td>
<td><strong>Solution:</strong> Swap height sensor harnesses at ECU.</td>
<td><strong>Solution:</strong> Swap airline at the valve block.</td>
</tr>
<tr>
<td>2. Replace sensor.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All 4 air springs leak down over a period of time.</th>
<th>Presets work, but does not achieve target.</th>
<th>Presets work, but does not achieve target.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diagnosis A:</strong> Check tank pressure. There is a leak in the supply side of the system. This could be at the comp., tank, or supply ports on the valve.</td>
<td><strong>Diagnosis A:</strong> Air tank is too small. Air spring pressure equalizes with tank pressure before achieving preset pressure/height.</td>
<td><strong>Diagnosis C:</strong> Pressure sensors and/or airline are not attached to corresponding air spring. (Ex: RF button must activate RF air spring and top right number on display.)</td>
</tr>
<tr>
<td><strong>Solution A:</strong> Spray all fittings with soapy water. Tighten fitting and/or remove and replace thread sealant. Cut 1” off of end of airline and reinsert.</td>
<td><strong>Solution A:</strong> Reprogram #1 preset for the highest psi that allows the suspension to bottom out. Will give it a “head start”.</td>
<td><strong>Solution C:</strong> Swap airline at delivery port on valve and/or air pressure sensor harness's.</td>
</tr>
<tr>
<td></td>
<td><strong>Diagnosis B:</strong> Tank pressure leaks down.</td>
<td><strong>Diagnosis D:</strong> Mechanical height sensors are out of range. Under “System Setup” check the presets voltages. If one or more are at 4.5v or .5v then the sensor is traveling beyond it’s range of travel.</td>
</tr>
<tr>
<td></td>
<td><strong>Solution B:</strong> Fix leak on supply side of system.</td>
<td><strong>Solution D:</strong> Reduce or change travel of sensor by either changing linkage length, changing sensor arm length or by rotating sensor.</td>
</tr>
</tbody>
</table>

**NOTE:**
Target on pressure based systems is + or - 7 PSI
Target on height based systems is + or - 1/4”
### Control panel switches activate the correct air spring, but the air pressures read the wrong air spring.

**Diagnosis:** Ex: Inflating the RF air spring changes the top left psi readout on the panel.

**Solution:** Swap pressure sensor harnesses at the sensors.

### Wireless remote control does not function.

**Diagnosis:** After programming remotes to ECU they still do not function.

**Solution:**
1. Try to relearn the remote to the WCU.
2. Replace Battery in Remote. LED will still light up even if the battery is near dead.
3. Red wire must be connected to a constant 12V, Yellow to switched 12V.

### Low Voltage Error.

Low Voltage Error is triggered if the system sees under 10.5 volts for an extended period of time. It will turn the compressors off to prevent the battery from being drained. The compressors will come back on after the battery voltage increases and stabilizes.

**Solution A:** Make sure the vehicle is running.

**Solution B:** Check all of your connections at the grounds and battery.

**Solution C:** If it is a common occurrence, you may need a larger alternator.

### Error 143: Compressor #1 No Fill

Compressor has been installed improperly, or has failed. Is the compressor connected to the tank? Are there any open ports or airline in the system?

If this does not resolve the issue please contact tech support.

### TECH TIP

**SUSPENSION BIND**

Ever noticed that when you lower any vehicle off of a lift or jack stands that it is sitting several inches higher than normal? This condition is due to Suspension Bind, and all vehicles have it. Three dynamics lead to suspension bind:

1. **Tire Scrub** - The arc created by the control arm swing will try to push your tires apart or pull them together, (basically changing the track width). However, friction between the tire and ground does not allow the tires to slide, reducing vehicle movement. This can be especially dramatic with sticky tires and concrete.

2. **Control Arm Bushing** – Friction between the bushing and the frame brackets will also reduce vehicle movement. This is why control arm bolts must be tightened at ride height. Over-tightening the bolts can lead to very excessive suspension bind.

3. **Shock Absorbers** – The shock absorber’s job is to reduce suspension movement. The stiffer the shock absorber, the more suspension bind.

With an air suspension vehicle, it is always best to over inflate the air spring and then deflate back down to the target pressure to alleviate some suspension bind.

### Troubleshooting Guide

**Low Voltage Error.**

- **Diagnosis A:** 5 gallon tank with 1 compressor or 1 compressor turned off.
- **Solution A:** Add a second compressor, or turn the second compressor on in the Setup Menu.
- **Diagnosis B:** Compressor isn’t producing air.
- **Solution B:** Check air line and connections between the compressor, tank, and valves.

**THIS SYSTEM IS EQUIPPED WITH SELF DIAGNOSTICS TO MAKE TROUBLESHOOTING A PROBLEM SIMPLE. PAGES 19 & 20 HAS A LIST OF POSSIBLE TROUBLE CODES ALONG WITH TEXT TO HELP SOLVE THE PROBLEM. THE ERROR WILL POP UP ON THE DISPLAY WHEN IT OCCURS OR YOU CAN LOOK AT THEM UNDER THE ERROR TAB. WHEN USING THE ERROR TAB IN THE APP, IT ONLY GIVES YOU THE ERROR CODE NUMBER ALONG WITH THE KEY CYCLE. YOU WILL NEED THE LIST OF ERROR CODES TO SEE THE TEXT. THE KEY CYCLE CAN BE HELPFUL WHEN DIAGNOSING A PROBLEM. IF YOU SEE SEVERAL ERROR CODES ON THE SAME KEY CYCLE, THEY ARE ALL USUALLY CAUSED BY ONE MAIN ERROR THAT CAUSED THE OTHER ERRORS.**
### Pressure Sensor Related Errors

<table>
<thead>
<tr>
<th>ERROR CODES AND TEXT</th>
<th>POSSIBLE ISSUE</th>
<th>SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR 11: LF PRESSURE LOW VOLTAGE</td>
<td>Sensor is disconnected or sensor has failed.</td>
<td>Is the sensor harness plugged into the ECU?</td>
</tr>
<tr>
<td>ERROR 21: RF PRESSURE LOW VOLTAGE</td>
<td></td>
<td>Is the sensor harness plugged into the sensor?</td>
</tr>
<tr>
<td>ERROR 31: LR PRESSURE LOW VOLTAGE</td>
<td></td>
<td>Is there +5 volt on the red wire at the sensor?</td>
</tr>
<tr>
<td>ERROR 41: RR PRESSURE LOW VOLTAGE</td>
<td></td>
<td>Is there ground on the black wire of the sensor?</td>
</tr>
<tr>
<td>ERROR 51: TANK PRESSURE LOW VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 12: LF PRESSURE HIGH VOLTAGE</td>
<td>Wire harness damaged or sensor has failed.</td>
<td></td>
</tr>
<tr>
<td>ERROR 22: RF PRESSURE HIGH VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 32: LR PRESSURE HIGH VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 42: RR PRESSURE HIGH VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 52: TANK PRESSURE HIGH VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 13: LF PRESSURE NO MOVEMENT</td>
<td>Sensor improperly installed or has failed.</td>
<td>Reconnect sensor following on screen prompts. Inflated each corner separately to verify the air pressure changes on the correct corner and that you also have suspension movement on the correct corner.</td>
</tr>
<tr>
<td>ERROR 23: RF PRESSURE NO MOVEMENT</td>
<td>THIS ERROR CAN ALSO BE CAUSED BY THE VALVES NOT OPENING, CHECK CONNECTIONS AT THE VALVE BLOCK.</td>
<td></td>
</tr>
<tr>
<td>ERROR 33: LR PRESSURE NO MOVEMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 43: RR PRESSURE NO MOVEMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 53: TANK PRESSURE NO MOVEMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 14: LF PRESSURE WRONG LOCATION</td>
<td>Sensor plugged into wrong location.</td>
<td></td>
</tr>
<tr>
<td>ERROR 24: RF PRESSURE WRONG LOCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 34: LR PRESSURE WRONG LOCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 44: RR PRESSURE WRONG LOCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 61: LF POSITION LOW VOLTAGE</td>
<td>Sensor is disconnected or sensor has failed.</td>
<td>Is the sensor harness plugged into the ECU?</td>
</tr>
<tr>
<td>ERROR 62: RF POSITION LOW VOLTAGE</td>
<td></td>
<td>Is the sensor harness plugged into the sensor?</td>
</tr>
<tr>
<td>ERROR 63: LR POSITION LOW VOLTAGE</td>
<td></td>
<td>Is the sensor linkage arm connected to the sensor?</td>
</tr>
<tr>
<td>ERROR 64: RR POSITION LOW VOLTAGE</td>
<td></td>
<td>Does the sensor move with suspension movement?</td>
</tr>
<tr>
<td>ERROR 65: LF POSITION HIGH VOLTAGE</td>
<td>Wire harness damaged or sensor has failed.</td>
<td></td>
</tr>
<tr>
<td>ERROR 66: RF POSITION HIGH VOLTAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 67: LR POSITION HIGH VOLTAGE</td>
<td></td>
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<td>ERROR 68: RR POSITION HIGH VOLTAGE</td>
<td></td>
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<tr>
<td>ERROR 69: LF POSITION NO MOVEMENT</td>
<td>Sensor improperly installed or has failed.</td>
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<td>ERROR 70: RF POSITION NO MOVEMENT</td>
<td></td>
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<tr>
<td>ERROR 71: LR POSITION NO MOVEMENT</td>
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<td>ERROR 72: RR POSITION NO MOVEMENT</td>
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<td>ERROR 64: LF POSITION WRONG LOCATION</td>
<td>Sensor plugged into wrong location.</td>
<td>Reconnect sensor following on screen prompts. Inflated each corner separately to verify the air pressure changes on the correct corner and that you also have suspension movement on the correct corner.</td>
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<tr>
<td>ERROR 65: RF POSITION WRONG LOCATION</td>
<td></td>
<td>This can be done in the Diagnostics tab.</td>
</tr>
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<td>ERROR 66: LR POSITION WRONG LOCATION</td>
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<td></td>
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<tr>
<td>ERROR 67: RR POSITION WRONG LOCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERROR 68: LF POSITION RANGE (less than 1V)</td>
<td>Max-Min must be over 1V for proper system operation.</td>
<td>Min/Max should be over 2.5V for best performance.</td>
</tr>
<tr>
<td>ERROR 69: RF POSITION RANGE (less than 1V)</td>
<td>Go to Menu/Diagnostic.</td>
<td>Level Sensor swing is less than 2.5V from Min to Max.</td>
</tr>
<tr>
<td>ERROR 70: LR POSITION RANGE (less than 1V)</td>
<td>Fully deflate the vehicle. Record min sensor voltages.</td>
<td>Though the suspension will work, 2.5V or more is optimal.</td>
</tr>
<tr>
<td>ERROR 71: RR POSITION RANGE (less than 1V)</td>
<td>Fully inflate the vehicle. Record max sensor voltages.</td>
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### Position Sensor Related Errors

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### Solenoid Valve Related Errors

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</tr>
</thead>
<tbody>
<tr>
<td>ERROR 101: LF SOLENOID INFLATE NOT CONNECTED</td>
<td>Check harness between ECU and valves.</td>
<td>Is the valve harness plugged into the ECU?</td>
</tr>
<tr>
<td>ERROR 111: RF SOLENOID INFLATE NOT CONNECTED</td>
<td></td>
<td>Is the valve harness plugged into the valves?</td>
</tr>
<tr>
<td>ERROR 121: LR SOLENOID INFLATE NOT CONNECTED</td>
<td></td>
<td>Is the vehicle charging system operating correctly?</td>
</tr>
<tr>
<td>ERROR 131: RR SOLENOID INFLATE NOT CONNECTED</td>
<td></td>
<td>Is the valve connected to chassis ground?</td>
</tr>
<tr>
<td>ERROR 102: LF SOLENOID DEFLATE NOT CONNECTED</td>
<td>CHECK THE GROUND AT THE VALVES.</td>
<td></td>
</tr>
</tbody>
</table>
## COMPRESSOR & SYSTEM RELATED ERRORS

<table>
<thead>
<tr>
<th>ERROR CODE &amp; TEXT</th>
<th>POSSIBLE ISSUE</th>
<th>SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ERROR 141: COMPRESSOR #1 NOT CONNECTED</strong></td>
<td>Check wiring and fuse. Compressor overheated and thermalled out. The compressor has a thermal switch that will turn the compressor off if it gets too hot. This is to protect the compressor. It will come back on after it cools.</td>
<td>Is the valve compressor plugged into the ECU? Is the harness plugged into the compressor? Is the compressor connected directly to the battery? Is the compressor fuse blown? Is the vehicle charging system operating properly? Is the compressor hot? If so, let cool.</td>
</tr>
<tr>
<td><strong>ERROR 151: COMPRESSOR #2 NOT CONNECTED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 142: COMPRESSOR #1 OVER CURRENT</strong></td>
<td>Compressor may have failed or improper wiring.</td>
<td>Is the valve compressor plugged into the ECU? Is the harness plugged into the compressor? Is the vehicle charging system operating properly? Is the compressor hot?</td>
</tr>
<tr>
<td><strong>ERROR 152: COMPRESSOR #2 OVER CURRENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 143: COMPRESSOR #1 NO FILL</strong></td>
<td>Compressor has been installed improperly, or has failed.</td>
<td>Is the compressor connected to the tank? Are there any open ports or airlines in the system?</td>
</tr>
<tr>
<td><strong>ERROR 153: COMPRESSOR #2 NO FILL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 144: COMPRESSOR #1 DUTY CYCLE</strong></td>
<td>Duty cycle has been exceeded. Please wait for the compressor to cool. Compressor will turn on automatically after it cools.</td>
<td>Is there a major leak in the air supply system? If no leaks, compressor replacement may be required.</td>
</tr>
<tr>
<td><strong>ERROR 154: COMPRESSOR #2 DUTY CYCLE</strong></td>
<td>Is the valve compressor plugged into the ECU? Is the harness plugged into the compressor? Is the vehicle charging system operating correctly? Is the vehicle on a battery charger?</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 145: COMPRESSOR #1 WORN OUT</strong></td>
<td>Compressor replacement may be required.</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 155: COMPRESSOR #2 WORN OUT</strong></td>
<td>Wire harness damaged or compressor has failed. Compressor amp draw is too high for control system.</td>
<td>Is the valve compressor plugged into the ECU? Is the harness plugged into the compressor? Is the vehicle charging system operating correctly? Is the vehicle on a battery charger?</td>
</tr>
<tr>
<td><strong>ERROR 146: COMPRESSOR #1 SHORTED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 156: COMPRESSOR #2 SHORTED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 161: VEHICLE VOLTAGE LOW</strong></td>
<td>Compressors have been disabled. Compressors will come back on after the vehicle's voltage increases to 12.8V.</td>
<td>Vehicle voltage has dropped below 10V. Is the vehicle's charging system operating correctly?</td>
</tr>
<tr>
<td><strong>ERROR 162: VEHICLE VOLTAGE HIGH</strong></td>
<td>Vehicle voltage has exceeded 18V.</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 163: COMMUNICATION</strong></td>
<td>Is the display harness plugged into the ECU? Is the display harness pinched or shorted??</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 164: CALIBRATION FAIL!</strong></td>
<td>Calibration failed due to errors during calibration. Fix errors that popped up on the screen and rerun calibration.</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 165: WRONG VERSION</strong></td>
<td>Software Version of the ECU/WCU do not match the laptop software. You will need matching software to run the system with a laptop. You may need to install new software on the ECU/WCU or the laptop, depending on the version that is installed of each item. Contact Ridetech @ 812-481-4969 to determine which needs updated.</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 166: HARDWARE FAILURE</strong></td>
<td>Internal Hardware Failure in ECU or WCU.</td>
<td>Contact Ridetech @ 812-481-4969 to resolve issue.</td>
</tr>
<tr>
<td><strong>ERROR 167: CALIBRATION FAILURE</strong></td>
<td>Calibration too many steps to complete. Check system for air leaks. Check for suspension bind. It may require the suspension pivot bolts to be loosened for calibration. Retighten after rerunning calibration. Contact Ridetech @ 812-812-481-4969 if the system will not go through calibration.</td>
<td></td>
</tr>
<tr>
<td><strong>ERROR 168: CAN NOT EXECUTE MOVE TO PRESET</strong></td>
<td>Errors occurred while trying to #1, #2 or #3 preset.</td>
<td>Fix errors that occurred while the system was attempting a move to preset.</td>
</tr>
<tr>
<td><strong>ERROR 169: SOLENOID OVER CURRENT</strong></td>
<td>Check harness between ECU and valves Check valve ground.</td>
<td>Is the valve harness plugged into the ECU? Is the valve harness plugged into the valves? Do the valves have a good ground?</td>
</tr>
<tr>
<td><strong>ERROR 171 &amp; 172: MOVE TO PRESET TIME-OUT!</strong></td>
<td>Move has exceeded the maximum allowable time or steps.</td>
<td>Did the vehicle reach the desired preset? Is there adequate air in the supply tank? Is the supply tank of adequate size for the application?</td>
</tr>
<tr>
<td><strong>ERROR 181: POSITION SENSORS INCORRECT SWING</strong></td>
<td>Sensors moving out of range or incorrect corner is moving</td>
<td>Use the Diagnostics tab on the App to check the level sensor voltages.</td>
</tr>
<tr>
<td><strong>ERROR 182: POWER SUPPLY ERROR</strong></td>
<td>Sensor wiring shorted to ground.</td>
<td>Check wiring to Level and Pressure sensors.</td>
</tr>
</tbody>
</table>