



350 S. St. Charles St. Jasper, In. 47546 Ph. 812.482.2932 Fax 812.634.6632
 on the internet: www.ridetech.com

ARC4000e 4 wheel compressor system w / 4 way Ride Pro controller

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	ARC5001	Compressor
1	CON6000	Ride Pro e control panel
4	DIG1051	Sending units
4	FIT7007	Reducers 1/4" to 1/8" tube
4	FIT7008	Bulkhead fitting
1	A207	Sending unit mount
1		Wiring harness for CON6000
1	F9127	3-gallon tank
2	ARL2000	30 ft. roll of 1/4" DOT airline
2	ARL1000	1/8" airline (25 feet) manifold to gauges
2	ARV2500	Ride Pro air valve assemblies
1	PRE1500	150 psi pressure switch
1	FIT7500	Compressor tee
4	FIT4201	Elbow airline fitting
7	FIT4000	1/4" x 1/4" male straight fitting supply to manifold/out to airspring
4	FIT2000	1/8" npt x 1/8" tube straight fitting manifold to gauge fitting
1	FIT7004	1/4" allen head pipe plug to plug unused supply port
1	FIT7001	1/4" close nipple to connect manifolds

COMPRESSOR MOUNTING AND AIRLINE ROUTING

1. The air compressor and reservoir may be mounted in any convenient location. A 12v power wire of 12ga or larger with a 20 amp inline fuse will be required. This power wire should be run directly to the battery. The fuse should be placed as close to the battery as possible. A 130 psi pressure switch is supplied to activate the compressor according to pressure requirements. The RED wire from the compressor and the 12v positive wire from the battery are connected to the terminals of this switch (either terminal). Vibration mounts are supplied with the compressor to aid in noise reduction.



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2. The airline fittings supplied are the push-to-connect style. The plastic airline must be cut clean and square to seal properly. A safety razor works well, and a diagonal cutter does not.
3. The airlines should be kept away from exhaust, moving components and sharp edges.
4. The control panel(s) should be mounted in a convenient location to the driver. The red wire on the back of the switch panel should be hooked up to the fuse panel (switched). The gray wire is a power source that can be hooked to the gauge light to power the light. If not used, tape it up and isolate the gray wire because ground comes through the ground plug at the solenoid block.

After finishing the installation, please double check the clearance around each airspring through the entire wheel travel and the steering travel. Be sure to check for proper tire clearance and for proper ground clearance throughout the entire suspension movement. Take the vehicle for a short test drive and check it again.

REMEMBER:

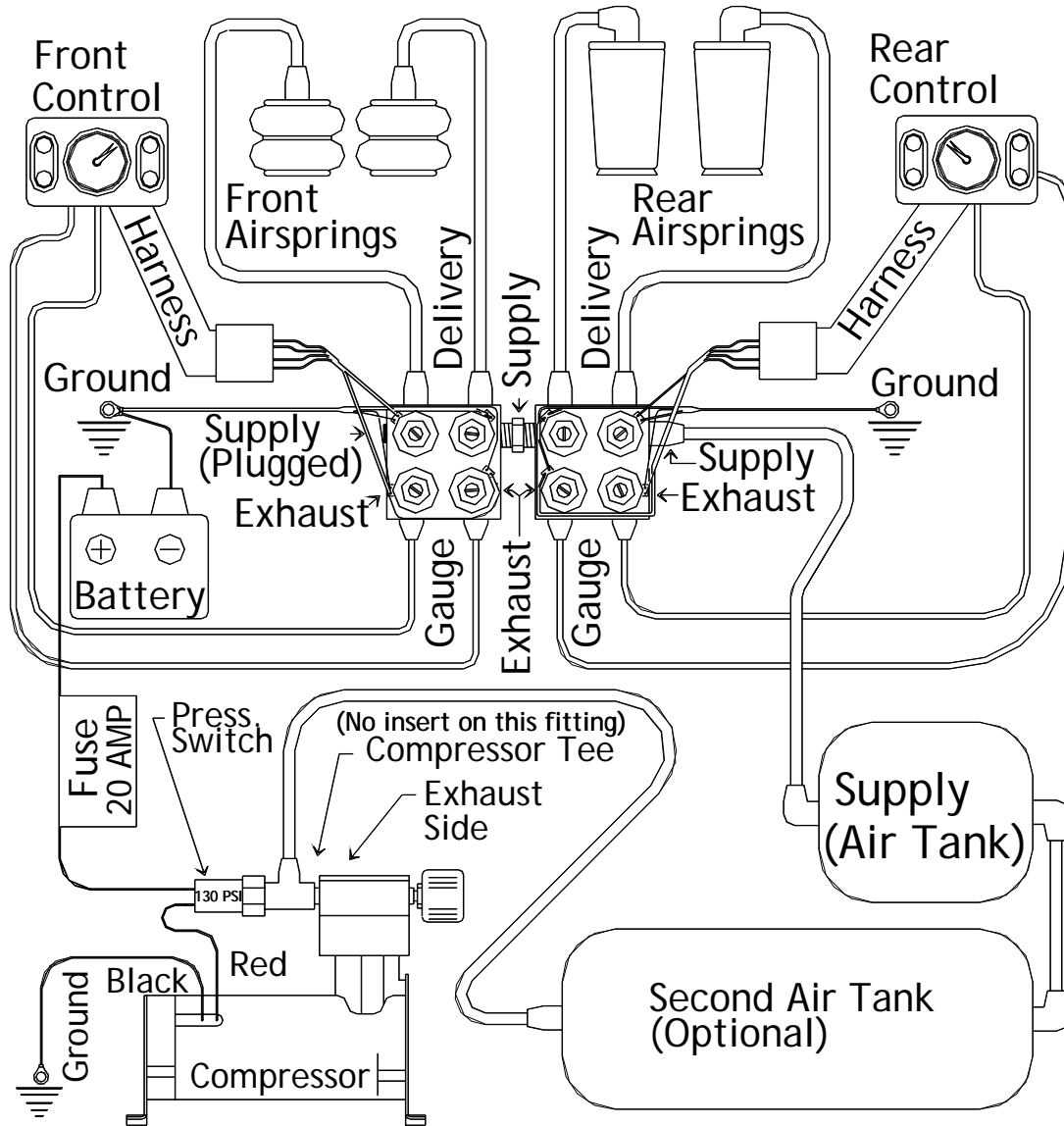
THE AIRSPRING BELLOWS MUST NOT TOUCH ANYTHING AT ANY TIME!

A MINIMUM OF 2" OF GROUND CLEARANCE MUST BE MAINTAINED WHEN THE AIRSPRING IS COMPLETELY DEFLATED.

If you have any questions concerning the air ride system, please don't hesitate to call us. We want to insure that your installation is done as safely as possible, and that it will be reliable for years to come. **AIR RIDE TECHNOLOGIES 812-482-2932.**

ARC4000

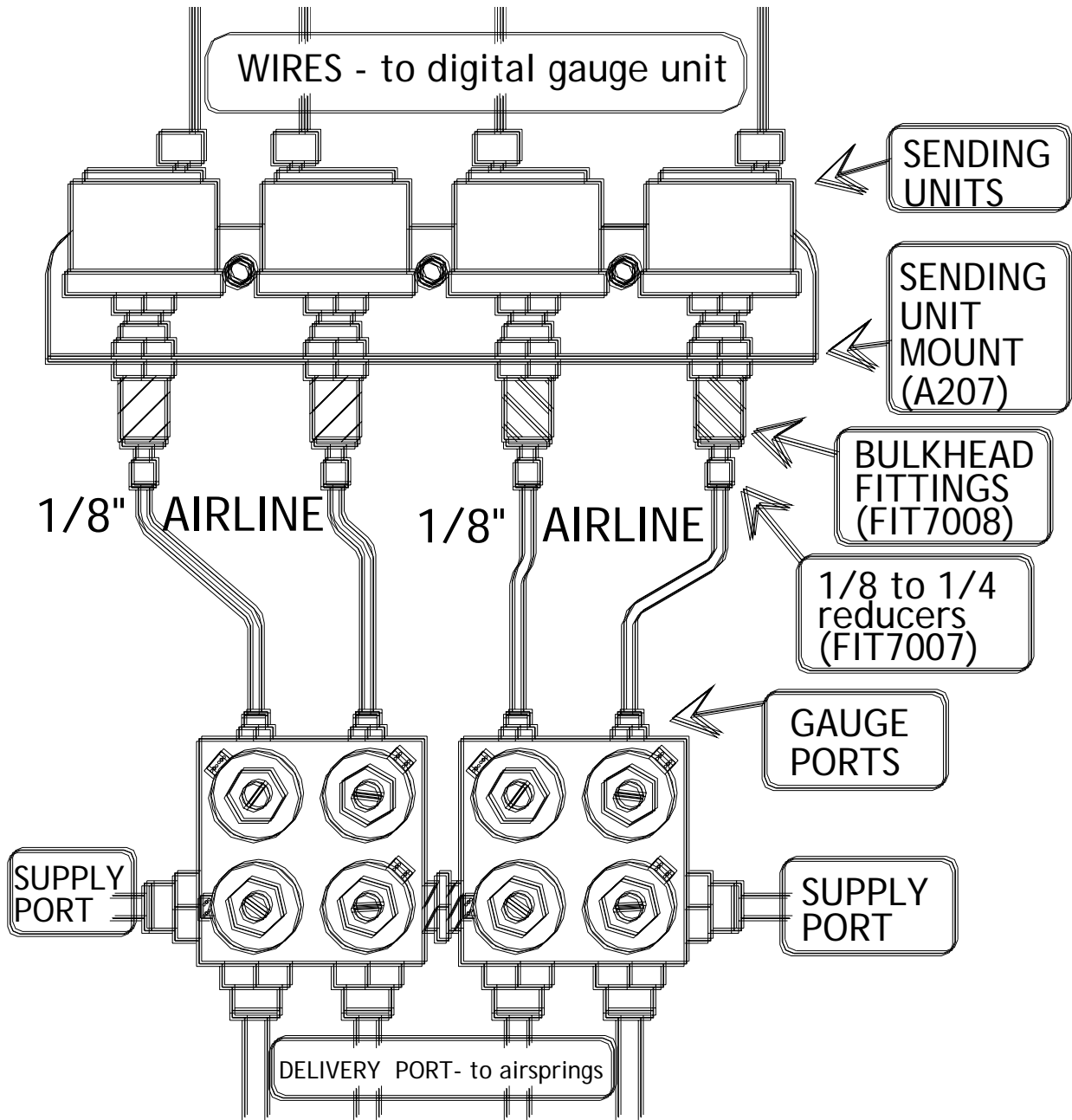
New style harness with plugs molded for switch.



Wiring at control panel:

Gray connects to gauge light

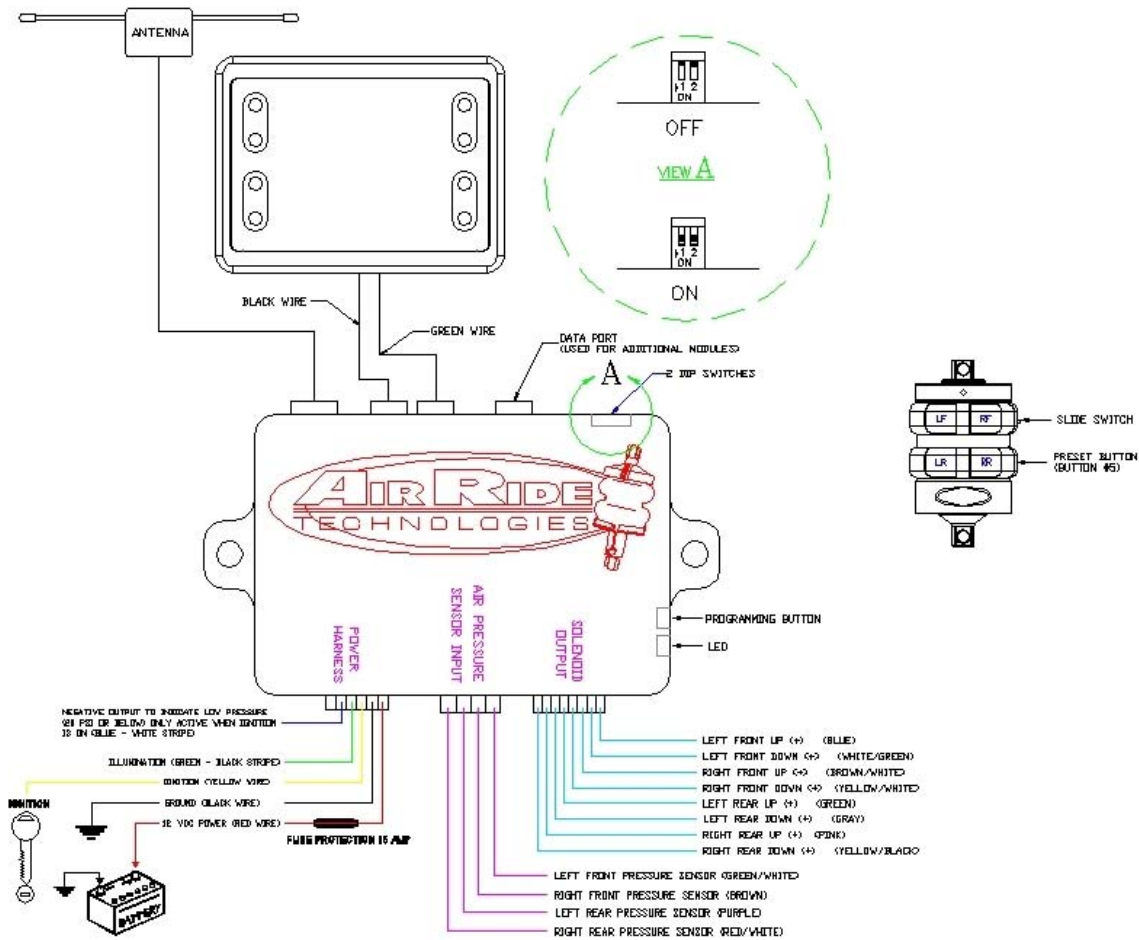
Red connects to "key on" power at fuse box





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RIDE PRO E CONTROLLER



Connector # 1 – Power harness

- Connect green/black stripe to ----- illumination
- Connect yellow to ----- ignition
- Connect black to ----- directly to ground of battery
- Connect red to ----- directly to battery 12v positive

Connector # 2 – Sensor harness

- Connect green/white wire to ----- left front pressure sensor
- Connect brown wire to ----- right front pressure sensor
- Connect purple wire to ----- left rear pressure sensor
- Connect red/white wire to ----- right rear pressure sensor

Connector # 3 – Solenoid harness **NOTE:** This harness will have a weatherpak connector on it that will plug in to our existing Ride Pro solenoids. There will be no further connections necessary. If you have another brand or type of solenoid, please refer to the connection instructions below for proper connection.

- Connect blue wire to ----- left front UP solenoid
- Connect white/green wire to ----- left front DOWN solenoid
- Connect brown/white wire to ----- right front UP solenoid
- Connect yellow/white wire to ----- right front DOWN solenoid
- Connect green wire to ----- left rear UP solenoid
- Connect gray wire to ----- left rear DOWN solenoid
- Connect pink wire to ----- right rear UP solenoid
- Connect yellow/black wire to ----- right rear DOWN solenoid

Installation notes:

1. The computer box should be mounted inside the vehicle to avoid moisture and to be accessible to make programming changes. **DO NOT MOUNT THE COMPUTER BOX IN THE ENGINE BAY OR UNDERNEATH THE CAR.**
2. Do not plug in the receiver module until all the wiring is complete.
3. The air pressure sending units must be grounded to function properly. This can be accomplished through a metal mounting bracket or, by attaching a ground wire to the main body of the sensor.
4. The control panel display unit can be flush mounted or surface mounted in any location inside the vehicle or, it can be left un-mounted. It comes with 6 ft. leads to the computer box. Twelve ft. leads are available from the factory if desired. **DO NOT** lengthen or shorten these leads, call the factory for a longer harness.
5. The control panel is an LCD display. The display may be unsatisfactory if mounted at an extreme angle to the driver. You may want to power up the system temporarily to insure you are able to see the display properly in your selected mounting location.

How to program the air pressure preset

To Program air pressure preset #1: This is the default setting that will be engaged every time the vehicle is started. It can also be engaged via the optional key fob transmitter by placing the slide switch in the “up” position. It is recommended that this air pressure be adjusted to the highway ride height of the vehicle.

1. Place the DIP-switches located on the side of the computer box in the OFF (or “up”) position.
2. Turn ignition ON.
3. Set desired air pressure of the vehicle with main control panel switches.
4. Press the “PROGRAM” button, located on the side of the computer box 6 times. (If the program button is held for 3 seconds on the 7th press of the button, level one will be set.)

The LED beside the program button will then flash four times to indicate programming was successful.

OPTION: If you have the optional remote control system, set the slide switch on the side of the transmitter to the “UP” position and press the #5 button on the side of the key fob transmitter to enter the #1 setting into the remote control system. The main control panel display will flash slowly four times to indicate remote control setting #1 was successful.

After ALL programming is complete, return the DIP switches to the ON (or “down”) position to activate the air pressure presets.

To Program air pressure setting #2: This air pressure preset is only accessible from the optional remote control key fob transmitter. This air pressure setting is typically adjusted to set the vehicle at a lower ride height for parking.

1. Place the DIP-switches located on the side of the computer box in the OFF (or “up”) position.
2. Turn ignition ON.
3. Set desired air pressure of the vehicle with main control panel switches .
4. Press the “PROGRAM” button, located on the side of the computer box 6 times. The LED beside the program button will then flash.
5. Set the slide switch on the side of the transmitter to the OFF (or “down”) position and press the #5 button on the side of the key fob transmitter to enter the #2 setting into the remote control system. The main control panel display will flash quickly four times to indicate remote control setting #2 was successful.

After ALL programming is complete, return the DIP-switches to the ON (or “down”) position to activate the air pressure presets.

NOTE: The vehicle will return to the #1 air pressure preset every time the vehicle is started. If you DO NOT wish to use the air pressure preset feature, simply leave the DIP switches in the OFF (or “up”) position.

How to operate the Ride Pro e system

The main control panel display contains the switches for inflating and deflating the individual air springs. The position of the switches corresponds to the position of the air springs in your vehicle. **NOTE:** The control panel is functional ONLY when the key is “ON”. It is disabled when the key is “OFF”. The optional remote control system is functional ONLY when the key is “OFF”.

Control Panel:

Top Left Switch:	Controls left front ride height UP or DOWN Indicates Air Pressure of left front air bag
Top Right Switch:	Controls right front ride height UP or DOWN Indicates Air Pressure of right front air bag
Bottom Left Switch:	Controls left rear ride height UP or DOWN Indicates Air Pressure of left rear air bag
Bottom Right Switch:	Controls right rear ride height UP or DOWN Indicates Air Pressure of right rear air bag

Optional Remote Control Transmitter:

- Button 1 (LF): Controls left front ride height UP or DOWN
- Button 2 (RF): Controls right front ride height UP or DOWN
- Button 3 (LR): Controls left rear ride height UP or DOWN
- Button 4 (RR): Controls right rear ride height UP or DOWN
- Button 5 (side of transmitter): Activates air pressure presets
- Slide Switch UP: Controls buttons 1-4 ride height UP and controls level #1 setting
- Slide Switch DOWN: Controls buttons 1-4 ride height DOWN and controls level # 2 setting

To Change ride height with the optional remote transmitters: Remotes only function with ignition OFF

1. To raise vehicle place remote switch in the UP position
2. To lower vehicle place remote switch in the DOWN position
3. Press the corresponding button of the remote for the corner you wish to raise/lower

Using the optional remote transmitter to operate Settings Number 1 and 2: The remote will only operate when ignition is OFF

To return to Setting Number 1:

1. Turn the ignition OFF
2. Press Slide Switch to the UP position
3. Press button Number 5; the vehicle will attempt to achieve setting number 1

To return to Setting Number 2:

1. Turn the ignition OFF
2. Press Slide Switch to the DOWN position
3. Press button Number 5; the vehicle will attempt to achieve setting number 2

To Program Additional Remotes:

NOTE: The antenna MUST be plugged in, as the hardware for receiving the transmitter is in the antenna itself!

1. Ignition OFF
2. Slide switch on remote UP
3. Press Program button on ECU three times; the LED will light solid
4. Press LF button on the first remote 1 time; the LED on ECU will flash
5. Press LF button on the second remote twice with a short (2-3 second) pause in between presses; the LED will flash each time the LF button is pressed, then go out.