



MEDIUM DUTY ONBOARD AIR SYSTEM

PART NO. 10003



IMPORTANT:

It is essential that you and any other operator of this product read and understand the contents of this manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

USER MANUAL



MEDIUM DUTY ONBOARD AIR SYSTEM

Thank you for purchasing this complete, self-contained onboard air system. Contained in one package, you'll find everything you'll need to install a high performance, onboard air source for your vehicle. Please follow these instructions to install your new system.

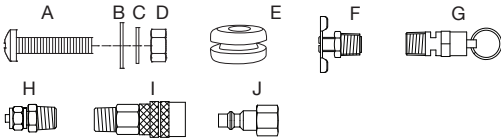
OBA Components:

- 1 - 2.5 Gallon, 6 port VIAIR Air Tank
- 1 - 325C model VIAIR compressor
- 1 - 25-ft. Length of 1/4" Air Line (for accessory and gauge installation)

(Please check to make sure that you have **four** labeled packages in your Onboard Air System kit. Each package contains the parts needed for specific areas of onboard air installation, and may contain smaller bags within each package labeled for specific use.)

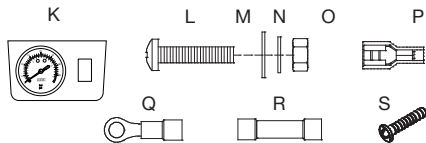
PARTS PACKAGES

Package #1 – Air Tank Installation:



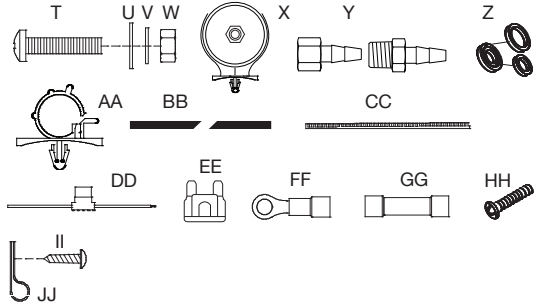
- A. Mounting Bolts (4pcs)
- B. Flat Washers (8pcs)
- C. Locking Washers (4pcs)
- D. Nuts (4pcs)
- E. Rubber Tank Mount Bushings (6pcs)
- F. 1/4" NPT Drain Cock (1pc)
- G. 1/4" NPT 175 PSI Safety Valve (1pc)
- H. 1/4" NPT Compression Fitting (1pc)
- I. 1/4" NPT M Quick Connect Coupler (1pc)
- J. 1/4" NPT F Quick Connect Stud (1pc)

Package #2 – Gauge Panel Installation:



- K. Dash Panel Gauge with ON/OFF Switch (1pc)
- L. Mounting Bolts (2pcs)
- M. Flat Washers (4pcs)
- N. Locking Washers (2pcs)
- O. Nuts (2pcs)
- P. Push-on Female Terminals (2pcs)
- Q. 12-gauge Ring Terminal (1pc)
- R. 12-gauge Butt Connectors (2pcs)
- S. Self-tapping Screw (1pc)

Package #3 – Compressor Installation:



- T. Mounting Bolts (4pcs)
- U. Flat Washers (8pcs)
- V. Locking Washers (4pcs)
- W. Nuts (4pcs)
- X. Remote Mount Air Filter Assembly (1pc)
- Y. Remote Mount Air Filter Fittings for Compressor and Air Filters (2pcs)
- Z. 2-pack of Replacement Air Filters (1pc)
- AA. Leader Hose Bracket Clip (1pc)
- BB. Air line for Remote Mounting Air Filter (1pc)
- CC. 4-inch Strip of continuous Grommet Material (1pc)
- DD. Fuse Holder & 20 ft. 12 Gauge Wire (1pc)
- EE. 30-amp Fuse (1pc)
- FF. 12-gauge Ring Terminal (1pc)
- GG. 12-gauge Butt Connector (1pc)
- HH. Self-tapping Screw (1pc)
- II. Screws (6pcs)
- JJ. Air Line Clips (3pcs)

Package #4 – Pressure Switch & Reducer:

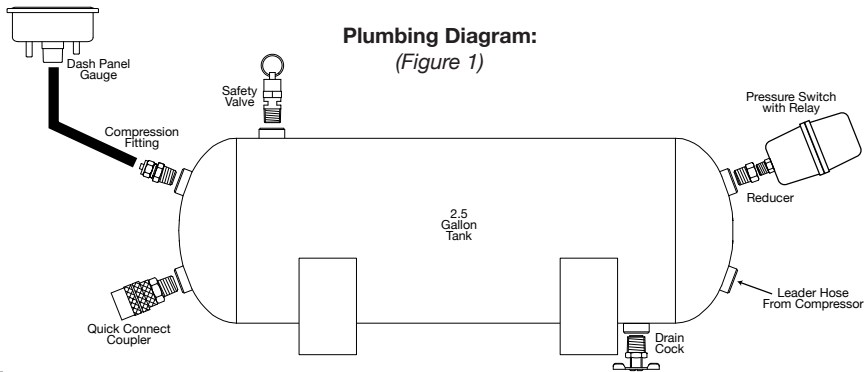


- KK. Pressure Switch with Relay - (110 PSI on, 145 PSI off) (1pc)
- LL. Reducer (1/8" NPT F to 1/4" NPT M) (1pc)

MEDIUM DUTY ONBOARD AIR SYSTEM

2.5 GALLON AIR TANK & PLUMBING (USE CONTENTS OF PARTS PACKAGE #1)

Your 2.5 Gallon air tank comes with six 1/4" NPT port openings to allow installation in many configurations on your vehicle. To ensure safe and trouble-free use of your air tank, we strongly recommend that you install the supplied drain cock and a safety pressure relief valve. (See Figure 1)



Tank Fittings:

Install the supplied compression fittings and/or quick connect fitting for the air tank in areas where they are most appropriate for your installation using thread sealant. Make sure that the safety valve is installed in the top most position on the tank, and that the drain cock is installed in the lowest position on the tank if the tank is to be installed in any other position than upright on the tank's mounting legs. Be sure that all fittings are accessible later in the installation process since you will have to plumb air lines to each fitting as needed to utilize the air tank.

Mounting the Tank:

We have included 6 pieces of rubber bushings in your tank mounting hardware. You have the option of using two layers of rubber bushings on one of your tank legs to slightly tilt tank toward the drain cock to improve drainage. Use the provided longer bolts, corresponding washers, and nuts to mount the tank to a suitable chassis or body point on your vehicle.

IMPORTANT:

- Tank is rated for 150 PSI maximum working pressure.
- Tank is **NOT** to be used as a breathing device.
- Bleed pressure from tank before servicing or adding attachments.
- Use only attachments or tools rated for 150 PSI working pressure or less.

CAUTION! DO NOT PRESSURIZE YOUR TANK UNTIL YOU HAVE INSTALLED ALL NECESSARY PORT FITTINGS AND ACCESSORIES.

- Apply sealant to threads of fittings prior to assembly and tighten each part with a wrench.
- Do not over tighten if your port fittings are made from brass, since brass threads can be stripped.
- Always release air from tank before servicing.

WARNING: FAILURE TO DRAIN TANK AND REMOVE CONDENSATION WILL CAUSE TANK TO RUST PREMATURELY.

- To remove accumulated condensation inside the tank, bleed pressure from tank until pressure is approximately 5-20 PSI using drain cock
- Drain tank by opening the drain cock drain valve and close after draining tank.
- If drain cock valve is plugged, release all air pressure from tank, remove drain valve and clean, then reinstall.

IMPORTANT: Please observe air tank's Date of Manufacture (stamped on tank leg).

Replace air tank 2 to 5 years from date air tank was first used, or use the date of manufacture as reference. Adhering to air tank draining guidelines will prolong the life of your air tank.

PLEASE NOTE: RUSTED TANKS CAN FAIL CAUSING EXPLOSIONS OR FATAL INJURIES.

Discard tank immediately if tank is rusted.

SAFETY VALVE: When using a safety pressure relief valve, point the safety pressure relief valve away from your body when releasing air. Use the pull ring on the safety relief valve to vent pressure from the tank before servicing.

MEDIUM DUTY ONBOARD AIR SYSTEM

325C AIR COMPRESSOR INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #3)*

Your Medium Duty Onboard Air System comes complete with a 325C, 33% duty cycle compressor. Please follow the installation instructions that follow to enjoy the best use of your onboard air system.

CAUTION - To reduce risk of electrical shock or electrocution:

- Do not disassemble the compressor. Do not attempt repairs or modifications. Refer to qualified service agencies for all service and repairs.
- Do not use this product in an area where it can fall or be pulled into water or liquids.
- Do not reach for this product if it has fallen into liquid.
- Use this compressor with 12-volt DC systems only.
- This product should never be left unattended during use.

Guidelines for Selecting Mounting Location:

The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please pay close attention to the following:

- Select a FLAT, UPRIGHT & SECURE LOCATION where the compressor can be mounted.
- To maximize air compressor performance, locate compressor as CLOSE TO THE BATTERY as possible so that length of positive lead wire required is at a minimum.
- Choose mounting location that is as cool as possible and away from heat sources.
- This compressor is moisture & dust resistant, but NOT WATERPROOF or DUSTPROOF. Do not mount compressor in locations where the unit is likely to come in contact with water or excessive dirt.
- For compressor with remote filter mounting, select compressor's mounting location where air line can be routed from compressor air inlet to remote inlet air filter. Make sure that the remote inlet air filter is located in a dry location, away from water.
- You will also want to select a compressor mounting location where the leader hose bracket can be mounted to secure the leader hose.
- If it is necessary to mount the air compressor further from the battery, such as inside your vehicle or in the bed of your pickup, use a minimum 8 AWG positive lead wire for remote installation.
- Do not mount compressor near areas where flammable liquids are stored.
- Use thread sealant for proper fitting installation. Thread tape is not recommended. Properly sealed, recommended torque for 1/4" and 3/8" is 16~18 ft. lbs. Recommended torque for 1/8" is 10~11 ft. lbs.

325C Compressor Wiring: (See Figure 2)

1. Disconnect ground cable from vehicle's battery.
2. Temporarily position the air compressor in the location where it will be mounted.
3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
4. Mount the 325C air compressor with the four sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. Use of thread locker is recommended.
5. NOTE: For Remote Inlet Air Filter Installation, refer to Remote Inlet Air Filter Installation Instructions included in the Remote Inlet Air Filter Pack.
6. This air compressor comes with a 2 ft. heavy duty heat resistant stainless steel braided leader hose with 1/4" fittings. This leader hose is designed to prolong the life of your air line. Do not remove this leader hose from air compressor.
7. IMPORTANT: Please note; the leader hose that came with your compressor has a built-in inline check valve preinstalled. Do not remove inline check valve from leader hose.
8. Select a proper location to mount leader hose with hose bracket provided. Avoid locations where leader hose may become tangled with wires and other hoses.
9. To mount hose bracket, drill holes with 3/16" drill bit and push self-anchoring hose bracket pin into hole. Route leader hose through hose bracket and secure hose by pressing bracket clamp into locked position.
10. To remove hose from the hose bracket, simply press down on the hose clamp release tab to release bracket clamp.
11. Connect compressor's positive lead wire to the appropriate lead of your pressure switch with relay.
12. Make sure that your compressor setup is properly fused. The 325C pulls approximately 21 amps of power.
13. Always locate fuse as close as possible to power source.
14. Before connecting to power source, check to make sure that all connections are made properly.
15. Connect and test compressor system by running the compressor for a short time to build up pressure in your air tank.
16. Once air pressure reaches preset cut out pressure of your pressure switch, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution. If a leak is detected, the air line may not be cut squarely or pushed all the way in. Tighten connections if needed.

MEDIUM DUTY ONBOARD AIR SYSTEM

325C OPERATING INSTRUCTIONS

IMPORTANT: The 325C has a maximum working pressure of 150 PSI and is capable of 33% duty cycle. Always operate the compressor at or below the MAXIMUM PRESSURE RATING of the compressor. Operation exceeding maximum pressure ratings and or duty cycle will result in damage to air compressor.

1. Your air compressor is equipped with an AUTOMATIC THERMAL OVERLOAD PROTECTOR. This feature will protect the air compressor from overheating and causing permanent damage to your air compressor. The thermal overload protector will automatically cut off power to your air compressor should the internal operating temperature of the air compressor rise above safe levels during excessive use.
2. Should your air compressor automatically shut off during use, turn power to the system off. The automatic thermal overload protector will automatically reset when internal temperature of the air compressor drops below safe levels. After allowing air compressor to cool off for about 30 minutes, you can safely resume use of the air compressor by turning on the system.
3. To prevent discharge of your battery and to provide peak performance, it is recommended that you keep the engine running while the air compressor is in use.
4. ONLY OPERATE THE AIR COMPRESSOR IN WELL-VENTILATED AREAS.

325C Compressor Maintenance & Repairs:

1. Periodically check all electrical and fitting connections. Clean and tighten as needed.
2. Periodically check all mounting screws. Tighten as needed.
3. Replace air filter element periodically. Replacement frequency depends on operating frequency and operating environment. For frequent use in dusty environment, you should replace air filter element more often.
4. Regularly clean dust and dirt from compressor.
5. Your air compressor is equipped with permanently lubricated, maintenance-free motor.
Never lubricate compressor.
6. Repairs should be performed by Manufacturer or Manufacturer's Authorized Service Agencies only.

CAUTION: Never touch the air compressor or fittings connected to the air compressor with bare hands during or immediately after use. Leader hose and fittings will become very HOT during and after use.

325C Compressor Installation Tips:

1. Always use the remote intake filter option when possible. This will extend the service life of your compressor.
2. If noise reduction from vibration is desired, using the remote mount option for the inlet filter can reduce operation noise by up to 25%.
3. Always mount the compressor at a point higher than the inlet port of the tank. This will keep moisture from being able to seep back to the tank.
4. When mounting the compressor, use a paint pen on the rubber isolators and cover the side to go against the chassis or mounting location. Then, simply stamp the compressor against the chassis to make an imprint of exactly where to drill the mounting holes for the compressor.

PRESSURE SWITCH WITH RELAY INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #3)*

Your VIAIR Medium Duty Onboard Air System comes complete with a pressure switch with relay that will turn on the compressor at 110 PSI, and off at 145 PSI. The pressure switch has a 1/8" NPT inlet at the bottom that will need to have the supplied 1/8" female to 1/4" male reducer fitting installed (using thread sealant) to allow it to be plumbed directly to your air tank.

Pressure Switch with Relay Installation Tips:

1. Never install your pressure switch in direct line from the inlet port coming from the compressor. Tank pressure can be misread by the pressure switch. Mount the pressure switch on the tank where it receives reading from deflected air.
2. Never use a pressure switch that is rated beyond your compressor's rated maximum working pressure (150 PSI).
3. Replace with Pressure Switch with Relay P/N 90111 if the pressure switch fails.

MEDIUM DUTY ONBOARD AIR SYSTEM

DASH PANEL GAUGE INSTALLATION *(USE CONTENTS OF PARTS PACKAGE #2)*

Your VIAIR Medium Duty Onboard Air System comes complete with a Dash Panel Gauge to monitor the pressure of your 2.5 gallon VIAIR air tank. Additionally, the Dash Panel Gauge has an ON/OFF switch preinstalled that will allow you to turn the system off by cutting power to the pressure switch with relay that you have already installed. We recommend that you install a master ON/OFF switch to allow the system to be turned off any time you anticipate leaving the vehicle parked for any length of time, and to avoid draining the vehicle's battery unnecessarily due to a slow air leak in your system. (see *Figure 2*)

IMPORTANT: Each Dash Panel Gauge has been tested and calibrated. The air inlet on this gauge has a factory installed compression fitting. DO NOT attempt to tighten or loosen the body of this compression fitting. Any adjustments will cause the gauge to malfunction and void warranty. The Dash Panel Gauge included in this kit is rated for 150 PSI. Do not pressurize gauge over 150 PSI.

1. Select Mounting Location for Dash Panel Gauge:

Select a mounting location with a rigid mounting surface such as the bottom edge of the dashboard. Use the gauge mounting panel as a template; mark off two mounting points to be drilled. Carefully drill two 13/64" diameter holes as marked. Do not mount Dash Panel Gauge at this time.

2. Air Line Connection to Dash Panel Gauge:

Remove only the collar of the compression fitting from the back of the Dash Panel Gauge. Do not loosen or tighten the body of the compression fitting, which is permanently affixed to the air inlet of the gauge. Insert air line tubing through this collar, and then push air line tubing onto the barb of the compression fitting until the air line completely covers the barb. Tighten collar onto the body of the compression fitting with a wrench.

3. Routing Air Line to Air Source:

Route the air line tubing on the Dash Panel Gauge to the air source. Do not cut air line yet. In some cases a hole may need to be drilled to enable the air line to pass through to the air source. Make sure that the air line tubing is protected from any sharp edges of the drilled hole using grommet strip supplied. Connect to the tank using the 1/4" compression fitting supplied.

Installation Tips:

- When cutting air line tubing, always cut as squarely as possible. Use a hose cutter or razor blade.
- When routing air line tubing, always remember to avoid sharp edges, heat sources and tight bends. (Air line must be routed at least 12 inches from exhaust systems & other heat sources.)

IMPORTANT - Drilling through firewall:

Always be sure of what is on the other side of the firewall before drilling. Take care not to damage your vehicle's electronic systems or components.

4. Wiring the ON/OFF Switch:

Attach one of the two remaining female terminal connectors to the wire that was routed from the pressure switch trigger wire (Small Red Wire on pressure switch with relay). There are two male spade connectors on the back of the ON/OFF switch. Connect this female terminal connector to one of the male spade connector on the ON/OFF switch. Next, attach appropriate size ring terminal provided in the kit to the end of the wire with the Inline Fuse. (The ring terminal should be about 12" from the inline fuse.) This wire is referred to as the power wire. Temporarily position the ring terminal at the power source and route power wire to the dash panel gauge, measure and cut to appropriate length. (If additional wire is necessary, use 16 AWG wire.) Attach the remaining female terminal connector to end of power wire, and connect to male spade connector on the ON/OFF switch. (Note: Do not connect gauge to power source at this time.)

MEDIUM DUTY ONBOARD AIR SYSTEM

DASH PANEL GAUGE INSTALLATION (CONT'D)

5. Wiring the Dash Panel Gauge for Illumination:

There are two wires, one red and one black connected to the light bulb of the gauge. Connect the red wire to a suitable fused dash panel circuit. Use the quick splice connector included in the kit for wire connections. The black wire is to be connected to a suitable ground source.

6. Mounting the Dash Panel Gauge:

With all electrical and air line tubing routed and connected properly, mount the dash panel gauge using the two 13/64" nuts, bolts, and washers included with the Dash Panel Gauge. Make sure that no electrical wires or air line can be contacted by vehicle pedal operation, or by use of any safety equipment. Use provided zip ties to secure air line and electrical wiring.

7. Connect to Power Source:

Before connecting the power wire to a power source, check to make sure that the ON/OFF switch on the dash panel gauge is in the OFF position. Connect the ring terminal of the power wire to power source. (This is the wire described in Step 4, which is connected to the ON/OFF switch of the dash panel gauge.)

8. Testing Your Onboard Air System:

Your Onboard Air System installation is now complete. Run the compressor to build pressure in the air tank. When air pressure reaches the pressure switch cut out pressure, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution and spray with a spray bottle onto connections to check for leaks. If leaks are detected, air line may not be cut squarely or pushed all the way in. Fix connections as needed. Periodically check your system's fitting in this manner should your compressor turn on more often than normal without frequent air use.

MEDIUM DUTY ONBOARD AIR SYSTEM

TROUBLESHOOTING GUIDE:

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Tank pressure drops when compressor (s) shut off	<ol style="list-style-type: none">1. Loose drain cock2. Check valve leaking3. Loose connections	<ol style="list-style-type: none">1. Tighten drain cock2. Replace check valve or compressor(s)3. Check all connections with soap and water solution and tighten
Compressor runs continuously and air flow lower than normal	<ol style="list-style-type: none">1. Excessive air usage2. Loose connections3. Worn piston ring or inlet valve4. Clogged air filter element	<ol style="list-style-type: none">1. Decrease air usage2. Check all connections with soap and water solution and tighten3. Repair or replace compressor4. Replace air filter element
Compressor runs continuously causing safety valve (if equipped) to open	<ol style="list-style-type: none">1. Bad pressure switch2. Defective safety valve	<ol style="list-style-type: none">1. Replace pressure switch2. Replace safety valve
Excessive moisture in discharge	<ol style="list-style-type: none">1. Excessive water in air tank2. High humidity	<ol style="list-style-type: none">1. Drain tank, tilt tank to drain Drain tank more frequently2. Move compressor to area with less humidity, or use air line filter.
Compressor will not run	<ol style="list-style-type: none">1. No power, or power switch in OFF position2. Blown fuse3. Motor overheats4. Faulty pressure switch	<ol style="list-style-type: none">1. Make sure compressor switch is ON2. Disconnect compressors from power source, replace fuse (Refer to Specifications section for correct fuse amperage.)3. Let compressors cool off for about 30 Minutes to allow thermal overload switch reset4. Replace pressure switch
Thermal overload protector cuts out repeatedly	<ol style="list-style-type: none">1. Lack of proper ventilation or ambient temperature too high2. Compressor valves failed	<ol style="list-style-type: none">1. Move compressor to well ventilated area, or area with lower ambient temperature2. Repair or replace compressor
Excessive knocking or rattling	<ol style="list-style-type: none">1. Loose mounting bolts2. Worn bearing on eccentric or motor shaft3. Cylinder or piston ring is worn	<ol style="list-style-type: none">1. Tighten mounting bolts2. Repair or replace compressor3. Repair or replace compressor

CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.

MEDIUM DUTY ONBOARD AIR SYSTEM

COMPRESSOR APPLICATION GUIDE

To ensure that you get the highest level of satisfaction from your compressor performance, refer to information below:

VIAIR COMPRESSOR REFERENCE CHART

COMPRESSOR SERIES	DUTY CYCLE (100 PSI @ 72°F)	MAX. WORKING PRESSURE
090 SERIES	9%	120 PSI
092 SERIES	9%	120 PSI
095 SERIES	9%	120 PSI
097 SERIES	10%	130 PSI
098 SERIES	10%	130 PSI
100 SERIES	15%	130 PSI
250 IG SERIES	100%	150 PSI
275 SERIES	25%	150 PSI
280 SERIES	30%	150 PSI
325 SERIES	33%	150 PSI
330 IG SERIES	100%	150 PSI
350 SERIES	100%	150 PSI
380 SERIES	100%	200 PSI
	*55%	
400 SERIES	33%	150 PSI
420 SERIES	33%	150 PSI
444 SERIES	100%	200 PSI
	*50%	
450 SERIES	100%	150 PSI
450 IG SERIES	100%	150 PSI
460 SERIES	100%	150 PSI
480 SERIES	100%	200 PSI
	*50%	

**Duty Cycle at 200 PSI and 72°F.*

ABOUT COMPRESSOR DUTY CYCLE:

Duty cycle refers to the amount of time a compressor can be operated in a given time period at 100 PSI, and a standard ambient temperature of 72° F. It is commonly expressed in percentage format: Compressor on time ÷ (on time + off time) = Duty Cycle %.

ONE-HOUR DUTY CYCLE

(100 PSI @ 72°F)

	MINUTES ON / MINUTES OFF
9%	5 Min. On / 55 Min. Off
10%	6 Min. On / 54 Min. Off
15%	9 Min. On / 51 Min. Off
20%	12 Min. On / 48 Min. Off
25%	15 Min. On / 45 Min. Off
30%	18 Min. On / 42 Min. Off
33%	20 Min. On / 40 Min. Off
50%	30 Min. On / 30 Min. Off
100%	1 Hour Run Time

NOTE: All compressors, regardless of rated duty cycle, require sufficient rest time in between cycles to allow for partial or complete heat dissipation. Heat dissipation rates may vary depending on ambient temperatures and operating conditions.

ABOUT RATED WORKING PRESSURE:

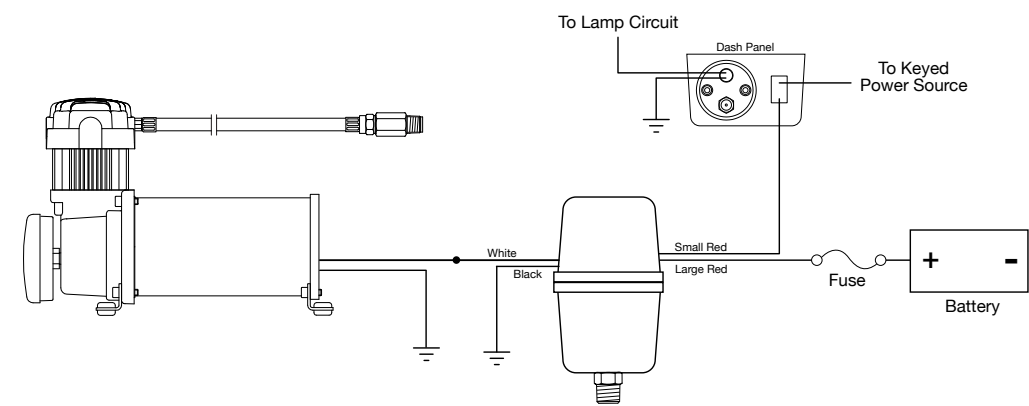
To ensure trouble free service life of your compressor, always operate compressor within rated working pressure of the compressor. Never use a pressure switch with a higher cut-off pressure than compressor's rated working pressure.

MEDIUM DUTY ONBOARD AIR SYSTEM

AMERICAN WIRE GAUGE GUIDE 12-VOLT:

Amp Draw	Length of wire from battery to compressor (in feet)			
	5	10	15	20
5	16	16	16	14
10	16	14	12	10
15	16	12	10	10
20	14	10	10	8
25	14	10	8	6
30	12	10	8	6
40	12	8	6	6
50	10	6	6	4
60	10	6	4	4

Wiring Diagram:
(Figure 2)



LIMITED WARRANTY:

VIAIR Corporation warrants this product, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from its original date of purchase. To receive warranty service or repair, please contact VIAIR Corporation.

Returns should be made within one year of the date of purchase, after a Return Goods Authorization (RGA) number has been assigned by VIAIR Corporation. To obtain RGA, fax a copy of your receipt to (949) 585-0188. For complete warranty details, please visit: www.viaircorp.com/warranty

PLEASE NOTE:

THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.

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