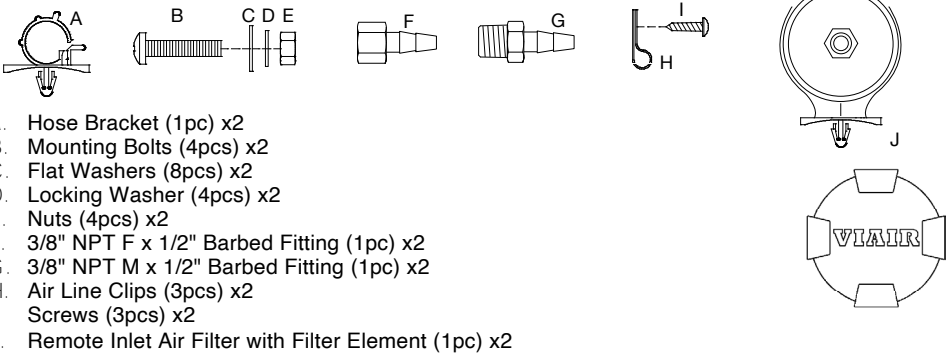


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MOUNTING AND WIRING

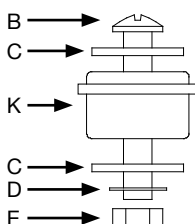
1. Disconnect ground cable from vehicle's battery.
2. Temporarily position the air compressor in the location where it will be mounted.
3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
4. Mount each air compressor with the four sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. (See Fig. 2 for Mounting Instructions) Use of thread sealant 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. Your air compressors come with heavy duty heat-resistant leader hose with 3/8" fittings. This leader hose is designed to prolong the life of your air line. Do not remove the leader hoses from the air compressors.
7. IMPORTANT: Please note, the leader hose that came with your compressor may have a built-in inline check valve. Do not remove inline check valve from leader hose.
8. Select 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 hole 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. (Fig. 3)
11. Connect compressor positive lead wire to one of the leads of your pressure switch.
12. Make sure that your compressor setup is properly fused. Both compressors will pull no more than 60-Amps (Dual 400C) / 44-Amps (Dual 450C) peak.
13. Always locate fuse as close as possible to power source.
14. Before connecting to power source, re-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. Repair connections as needed.

(Fig. 1) 485C Compressor Installation Parts List:



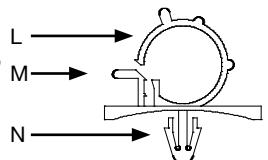
(Fig. 2) Compressor Mounting Hardware

- B. Mounting Bolt
- C. Flat Washer
- D. Locking Washer
- E. Nut
- K. Vibration Isolator



(Fig. 3) Leader Hose Bracket

- L. Hose Clamp
- M. Clamp Release Tab
- N. Self Anchoring Pin



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OPERATING INSTRUCTIONS

1. **IMPORTANT:** Always operate the compressors at or below the **MAXIMUM PRESSURE RATING** of the compressor (200 PSI).
2. Always observe the **MAXIMUM DUTY CYCLE** of the air compressor. Refer to Compressor Applications and Specifications Sections of this manual for details. Operation exceeding maximum pressure ratings and/or duty cycle will result in damage to the air compressor.
3. Your air compressors are equipped with **AUTOMATIC THERMAL OVERLOAD PROTECTORS**. This feature is designed to protect the air compressor from overheating and causing permanent damage. The thermal overload protector will automatically cut power to your air compressor should the internal operating temperature of the air compressor rise above safe levels during excessive use.
4. Should at any time during use, your air compressors automatically shut off, do not attempt to restart them. Cut power to the air compressor. 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.
5. To prevent discharge of your vehicle's battery, we recommend that you keep the vehicle's engine running while operating air compressors.
6. **ONLY OPERATE AIR COMPRESSORS IN WELL-VENTILATED AREAS.**
7. Compressor performance is enhanced when operating compressor with vehicle's engine running.
8. **INSTALLATION TIP:**
Always plumb your system using a separate tank port for each compressor leader hose. This can improve flow performance.

MAINTENANCE & REPAIRS

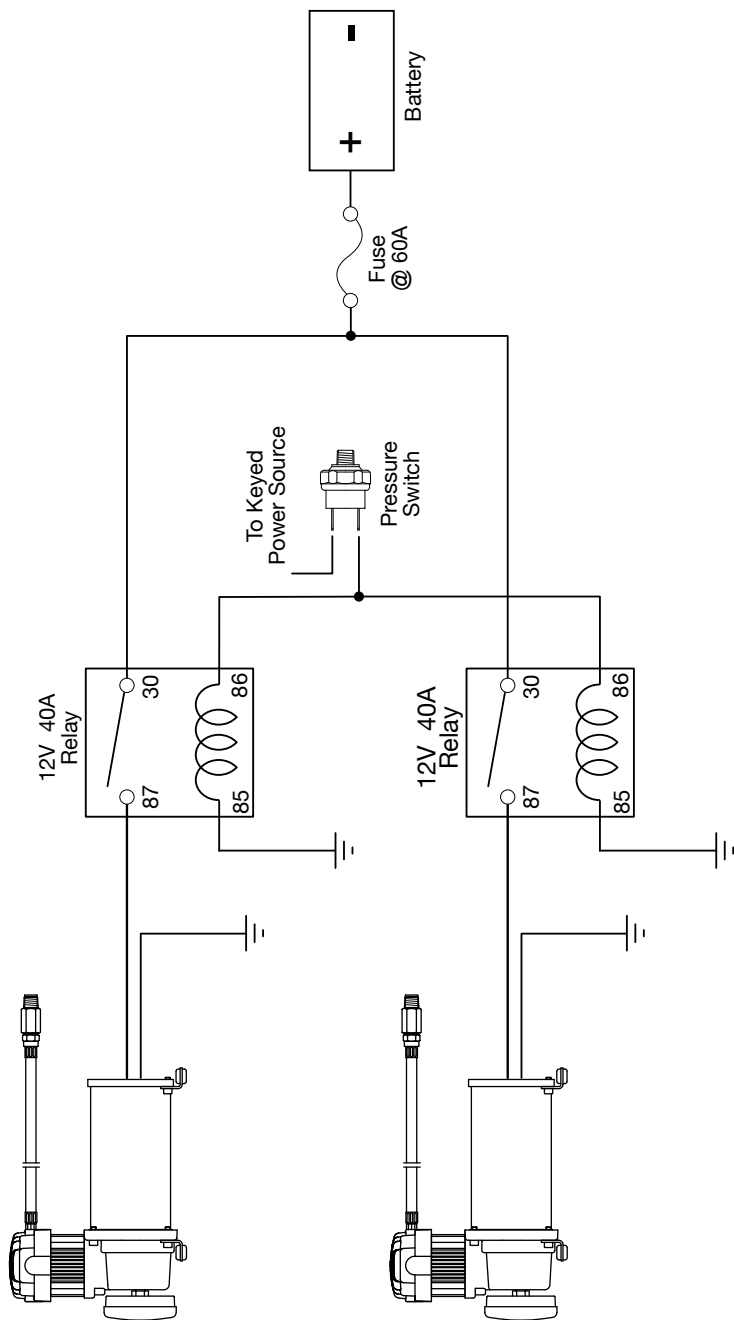
1. Periodically check all electrical, fittings connections. Clean and tighten as needed.
2. Periodically check all mounting screws. Tighten as needed.
3. Replace Air Filter Element periodically. Replacement frequency depends on operating frequency and operating environment. For frequent use in dusty environments, we recommend that you replace air filter element once a month.
4. Regularly clean dust and dirt from compressor cooling fins and motor housing.
5. Your air compressor is equipped with a permanently lubricated, maintenance-free motor. Never try to lubricate the compressor.
6. All 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. The leader hose and fittings connected to leader hose will become very **HOT** during and after use. If necessary, wear heat resistant gloves to handle fittings, air line, and leader hose.

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Wiring Diagram:



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COMPRESSOR APPLICATION GUIDE

To ensure that you get the highest level of satisfaction from your compressor's 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
425 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
485 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)

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

MINUTES ON / MINUTES OFF

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.

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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 compressor3. 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 valve.4. Clogged air filter element	<ol style="list-style-type: none">1. Decrease air usage2. Check all connections with soap and water solution and tighten.3. Replace compressor4. Replace air filter element
Compressor runs continuously causing safety valve (if equipped) to open	<ol style="list-style-type: none">1. Faulty 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 (if hooked up to a pressure switch).	<ol style="list-style-type: none">1. Make sure compressor switch is ON2. Disconnect compressor from power source, replace fuse. (Refer to Specifications section for correct fuse-Amperage)3. Let compressor cool off for about 30 minutes to allow thermal overload switch to reset.4. Replace pressure switch
Thermal overload protector cuts out repeatedly	<ol style="list-style-type: none">1. Lack of proper ventilation or ambient temperature is too high2. Compressor valves failed	<ol style="list-style-type: none">1. Move compressor to well ventilated area, or area with lower ambient temperature2. 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 bolts2. Replace bearing or piston assembly3. Replace piston or compressor

CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.

485C DUAL PERFORMANCE VALUE PACK

SPECIFICATIONS

• Part No. 48532 / 48542 / 485C Dual Performance Value Pack / Platinum & Stealth Black (CE Spec.)

Motor Voltage:	12-Volts
Max.-Amperage - Single:	23-Amps
Max.-Amperage - Combined:	44-Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	200 PSI
Max. Duty Cycle (@72°F & 100 PSI):	50%
Minutes On/Off (@72°F & 100 PSI):	Continuous
Max. Restart Pressure:	200 PSI
Max. Ambient Temperature:	158°F
Min. Ambient Temperature:	-40°F
Auto. Reset Thermal Protection:	Yes
Dimensions:	10.82"L x 4.14"W x 6.59"H
Net Weight:	10.764lbs.
Ingress Protection Rating:	IP67

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

AMERICAN WIRE GAUGE GUIDE 24-VOLT:

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

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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