

# **BOSS**®

engineered **AIR** systems

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## **PRODUCT MANUAL**

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### **80201 AHBI**

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#### Hydraulically Driven Air Compressor



This manual must be read carefully before using your Boss Industries, LLC 80201 AHBI. Store in a safe and convenient location for future reference.



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# Welcome

## General Information

Thank you for choosing the Boss Industries, LLC 80201 AHBI Hydraulically Driven Air Compressor. Before operating, carefully read this manual and become well acquainted with your new machine. Doing this will increase your safety and maximize the life of the machine.

While this manual is written to be as accurate as possible, Boss Industries, LLC strives to continually improve the efficiency and performance of its machines. As a result, sometimes there may be slight differences between a given version of the manual and the machine.



**PRODUCT MANUAL**

***BOSS COMPRESSOR***

Boss Industries Air Compressor



 ROTARY SCREW PISTON GENERATOR HYDRAULIC ELECTRIC

This manual must be read carefully before using your Boss Industries, LLC BOSS COMPRESSOR.  
Store in a safe and convenient location for future reference.

# Safety

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## General Safety Overview

### IMPORTANT: READ BEFORE OPERATING EQUIPMENT

Remember, safety is basically common sense. While there are standard safety rules, each situation has its own peculiarities that cannot be covered by rules. Therefore with your experience and common sense, you are in a position to ensure the safety of yourself and those around you. Lack of attention to safety can result in: accidents, personal injury, reduction in efficiency, and worst of all - Loss of Life. Watch for safety hazards and correct them promptly.

Understanding the proper operation of this equipment is critical to its safe operation. The owner, lessor, or operator of this equipment is hereby notified and forewarned that any failure to observe the safety and operating guidelines may result in injury and/or

damage. Boss Industries, LLC expressly disclaims responsibility or liability for an injury or damage caused by failure to observe the specified precautions or by failure to exercise the ordinary caution and due care required while operating or handling this equipment, even though not expressly specified.

In addition to following these safety guidelines, the operator should follow any company specific guidelines and procedures. Consult your immediate supervisor for specific company safety guidelines and/or procedures.

The following safety symbols are used throughout the manual to draw attention to important information. If the information is not carefully read and the instructions are not followed, severe injury, death, and/or damage to property and equipment may occur.



Indicate[s] an imminently hazardous situation, which, if not avoided, will result in death or serious injury.



Indicate[s] a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



Indicate[s] a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.



Indicate[s] a potentially unsafe situation or practice, which, if not avoided, can result in property and/or equipment damage only

# Safety

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## Safety Precautions

The following safety precautions are a general guide to safe operation of the equipment.

### DANGER

Pressurized System. Do not attempt to remove any compressor parts without first completely relieving entire system of pressure. Do not attempt to service any part of the equipment while in operation. Never attempt to repair or modify any pressure vessel or device.

### DANGER

System contains hot oil. The compressor system must be shut off prior to servicing. Open the service valve to ensure complete relief of system air pressure and stored energy. Then permit system to cool down prior to adding compressor oil or servicing the unit.

### DANGER

Do not use air from this compressor for breathing or food processing. Air from this compressor will cause severe injury if used for breathing or food processing.

### DANGER

The compressor is designed to compress air only. Do not attempt to compress other gases. Compression of other gases may create a situation where an explosion or fire may occur.

### DANGER

Do not use flammable solvents for cleaning compressor parts as this can cause the unit to ignite or explode during operation. Keep combustibles out of and away from compressor inlet, and any associated enclosures.

### DANGER

Never disable, override, or remove safeties, either temporarily or permanently.

### DANGER

Connect air hoses only in full compliance with OSHA Standard 29 CFR 1926:302 (b) (7). The required safety devices (velocity fuse) should be tested in accordance with their manufacturer's recommendations to verify that they reduce pressure in case of hose failure and will not nuisance trip with the hose and tool combinations in use. Failure to comply could result in personal injury or death and/or damage to equipment and property.

### DANGER

Do not modify system to operate equipment at a higher pressure than specified in this manual.

### DANGER

Never leave the machine running unattended or leave a tool connected to an air hose when not using. Relieve system of all stored air pressure after use.

### WARNING

Read and understand the operations manual and all other safety instructions before using this equipment. Failure to follow operating instructions and/or failure to follow maintenance procedures and intervals could result in personal injury, death, and/or damage to equipment and property.

# Safety

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## Safety Precautions (continued)

### **WARNING**

Read and understand the operations manual and all other safety instructions before using this equipment. Failure to follow operating instructions and/or failure to follow maintenance procedures and intervals could result in personal injury, death, and/or damage to equipment and property.

### **CAUTION**

Mount the compressor in a stable location capable of supporting the weight of the machine. Slight vibration may occur during operation and the machine may move if not securely mounted.

### **CAUTION**

When using tools, maintain secure footing at all times. Do not overreach or awkwardly use air tools.

### **CAUTION**

Never place machine on a grade more than 15 degrees.

### **NOTICE**

Use only Boss Industries, LLC approved replacement parts or equivalent.

# *Specifications*

## Specification Sheet

<b>COMPRESSOR SPECIFICATIONS</b>			
<b>Model</b>	80201 AHBI		
<b>Type</b>	Hydraulically Driven Air Compressor		
	CFM Output	Compressor RPM	Hydraulic Flow @ 2200 PSI (GPM)
<b>Delivery</b>	85	1010	20.5
	100	1200	24.4
	125	1450	29.4
	160	1875	38
	185	2160	43.8
<b>Operating Pressure Range</b>	80 - 110 PSIG		
<b>Ambient Operating Temperature Range</b>	-20° - 110°F		
<b>Oil Capacity (Compressor)</b>	3 gallons		
<b>Air Service Connection</b>	3/4" NPT		
<b>Overall Dimensions</b>	36" L X 28" W X31 " H		
<b>Weight</b>	700 lbs.		

\*CALCULATIONS PERFORMED @ 85% EFFICIENCY MECHANICAL AND 96% EFFICIENCY VOLUMETRIC.

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE*

# ***Installation & Operation***

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## **System Installation Overview**

This machine should be installed only by those who have been trained and delegated to do so and who have read and understand the manual. Failure to follow the instructions, procedures, and safety precautions in this manual may result in accidents and injuries.

Install, use, and operate this machine only in full compliance with all pertinent OSHA, Federal, State, and Local codes or requirements in addition to any company regulations.

Do not modify this machine except with written factory approval.

## **Mounting the Compressor**

When mounting the compressor, care should be taken to ensure that its location does not impede the operation of other components on the vehicle. For example, if your vehicle is equipped with a crane, you must make sure the compressor will not interfere with the swing of the crane. In addition, the compressor should be installed in an area that permits cool ambient air to enter the air filter and the hot air to exhaust without recirculating into the machine. A minimum of 12" of clearance is needed for the hot discharge air from the cooler. A minimum of 10" of clearance is required from the rear of the compressor to allow for proper air intake. Cool ambient air is drawn in from the rear of the machine. One last consideration in the mounting should be the routing of hydraulic hoses. Be sure these can be safely run to the hydraulic manifold on the machine. The unit should be secured to the vehicle with four 1/2" grade 8 bolts, flat washers, and nyloc nuts. Ensure that you have a sub structure that will support the weight of the compressor. Be sure to follow all National Vehicle Safety Standards.

# Installation & Operation

## Installation of Air Storage Tanks

This rotary screw air compressor system is designed to provide continuous volume and constant pressure without the use of an air storage tank. Within a few seconds of engagement, the compressor will produce full volume and pressure needed to run corresponding air operated equipment without waiting for air tanks to fill.

Air storage tanks are not utilized as standard equipment on vehicle mounted rotary screw compressors. The installation of air storage tanks, if not done properly, will hinder the performance of the rotary screw compressor. Boss Industries, LLC strongly discourages the use of an air storage tank as standard equipment for vehicle mounted rotary screw air compressors.

In the rare event air usage is required without operating the vehicle, an air storage tank can be added to your system. When adding an air storage tank, be sure to follow all state and federal DOT regulations regarding air storage tank usage.

## Installation of Wiring

This unit is shipped from the factory with all necessary internal wiring installed. The only remaining wiring necessary is the wiring needed to interface your vehicle/power source with the Boss compressor. The unit is shipped with 1 end of a 6 pin connector. They need to be connected as follows:

Pin A) Battery Power

Pin B) Battery Ground

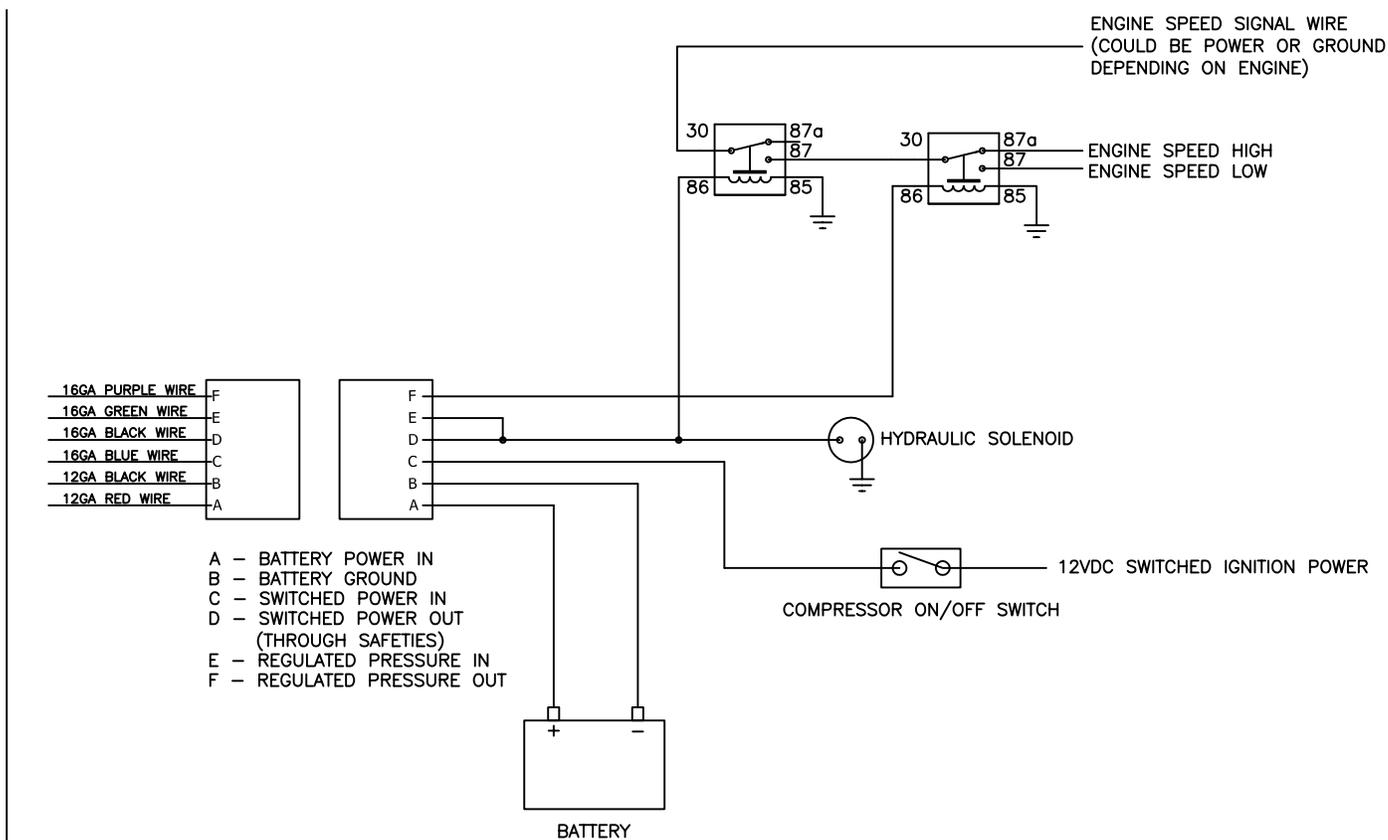
Pin C) 12vdc switch power for operation

Pin D) Power Out to hydraulic system solenoid through safeties

Pin E) Regulated Pressure Signal In

Pin F) Regulated Pressure Signal Out

Pin 'D' should be used to direct hydraulic flow to the compressor. This wire can also be used with a relay to signal the engine speed to increase if additional hydraulic flow is required during compressor operation. See one example below.



# Installation & Operation

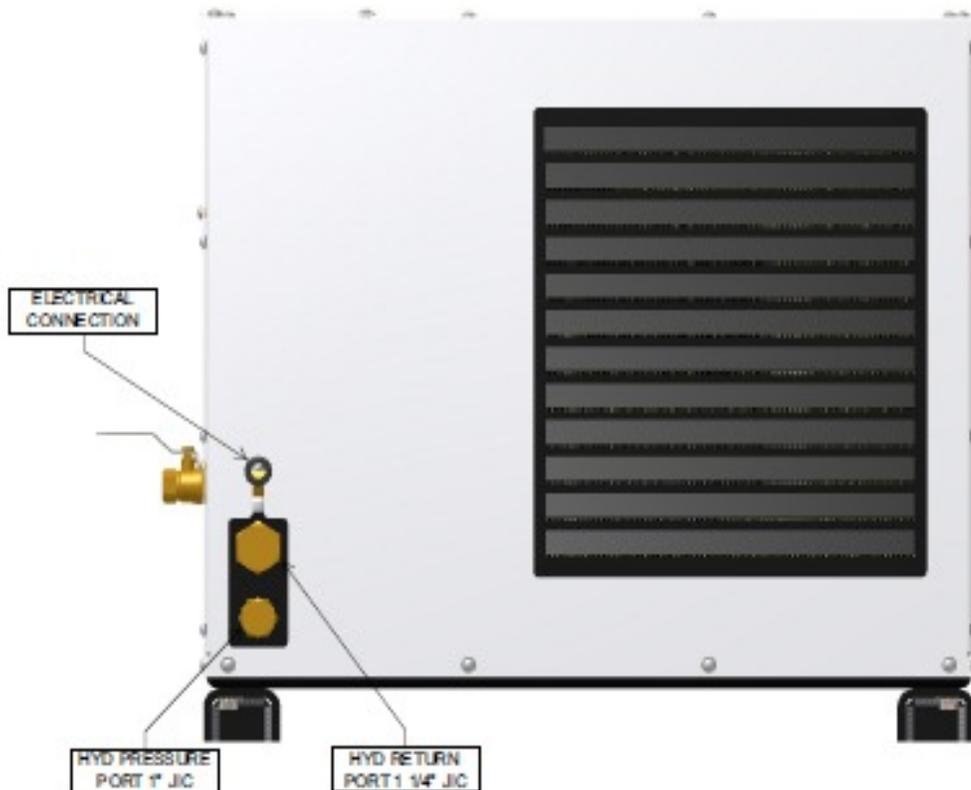
## Connecting the Hydraulic Hoses

The hydraulic hoses to the compressor should be connected directly to the hydraulic manifold with appropriately sized fittings. The input line should be made from a good quality high pressure (min. 3000 PSI) hydraulic hose 1" i.d. The return line can be made from a medium pressure (min 1500 psi) hydraulic hose 1 1/4" i.d. Care should be taken to see that the hoses are not installed with kinks or bends that inhibit flow of the hydraulic oil. Lack of flow could result in damage to the motor and compressor. Lastly, check to make sure hoses are not in contact with sharp objects or edges that may fray, chafe, or cut them over time. Secure all hoses with tie down straps or clamps.

## Pre-Start-up Inspection Checks

This inspection should be done prior to the compressor test.

- I. Check all assemblies, clamps, fittings, hose connections, nuts, and bolts to ensure they are properly tied and secured to the vehicle. This is a very critical area of inspection. The vehicle should not be moved until this inspection has been completed.
- II. Remove all tools, rags, and installation equipment from the area.
- III. Check all valves to ensure they are in correct operating position.
- IV. Vacuum all areas that have metal or plastic shavings. Wipe all fingerprints off unit and vehicle.



# Installation & Operation

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## Check All Fluid Levels

Position the unit on a level surface so that proper amount of fluids can be added.

- I. Check the compressor oil level.
  - A. Add oil if needed.
  - B. Additional oil may need to be added after test.
  - C. Top off oil level to half the sightglass when finished with the test.
- II. Check hydraulic system oil level.

## Machine Documentation

Record all serial numbers for this installation.

A. Boss Industries, LLC Serial Number

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B. Compressor Serial Number

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C. Note any special applications relating to specific installations.

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## Lifetime Warranty Registration

Every Boss Industries, LLC 80201 AHBI machine comes standard with a lifetime warranty on the airend. In order to activate the lifetime coverage, the customer must register the machine on the following website: [www.bossair.com/lw](http://www.bossair.com/lw)

## Operating Procedure

- I. Read this manual carefully before proceeding.
- II. Verify the service valve is closed.
- III. Engage hydraulic system.
- IV. Allow hydraulic system to run on bypass for 3-5 minutes to warm-up.
- V. Engage hydraulic flow to compressor.
- VI. Allow compressor speed to stabilize before opening service valve for use.

## Shutdown Procedure

- I. Close service valve.
- II. If equipped for a 2-speed system, allow engine speed to throttle down to low speed.
- III. Disengage hydraulic flow to compressor.
- IV. Disengage hydraulic system.

## Safety Circuit Testing

To perform safety circuit testing, follow the operating procedure above. Use a screwdriver or other metal object to touch the 1/16" allen head screw on the face of the temperature gauge and simultaneously touch the outside ring on the face of the gauge. This should shut off power to the solenoid of the hydraulics. Push the button in on the shutdown switch to reset. Repeat the test with the pressure gauge. If the solenoid does not stop flow to the compressor, check wiring.

## Operating Conditions

The following conditions should exist for maximum performance of the compressor:

- The machine should be as close to level as possible when operating.
- Ambient temperature for operation should be below 100°F . The machine may experience high temperature shutdown above this level.

# Maintenance

## Maintenance Overview

This section contains instructions for performing the inspection, lubrication, and maintenance procedures required to maintain the machine in proper operating condition. The importance of performing the maintenance described herein cannot be overemphasized.

The periodic maintenance procedures to be performed on the equipment covered by this manual are listed on the following page. It should be understood that the intervals between inspections specified are maximum intervals. More frequent inspections should be made if the unit is operating in a dusty environment, in high ambient temperature, or in other unusual conditions. A planned program of periodic inspection and maintenance will help avoid premature failure and costly repairs. Daily visual inspections should become a routine.



Compressor must be shut down and completely relieved of pressure prior to checking fluid levels. Open service valve to ensure relief of system air pressure. Relieve all stored air pressure energy prior to starting machine. Failure to comply with this warning will cause damage to property and serious bodily harm.

## Lifetime Warranty Information

In order to maintain the lifetime warranty status on your 80201 AHBI, the required maintenance intervals listed on the following page must be obeyed.

## Recommended Spare Parts List

PART NUMBER	DESCRIPTION
80400	50-Hour Maintenance Kit
80401	1-Year or 500-Hour Maintenance Kit
309410	Air Filter Element

## How To Order Parts

Phone: (800) 635-6587 (USA)

Phone: (219) 324-7776 (Outside of USA)

Fax: (877) 254-4249 (USA)

Email: [parts@bossair.com](mailto:parts@bossair.com)

Website: <http://www.bossair.com>

# Maintenance

## Maintenance Chart

The MAINTENANCE CHART lists serviceable items on this compressor package. The items are listed according to their frequency of maintenance.

INTERVAL	REQUIRED MAINTENANCE
<b>EVERY 10 HOURS OR DAILY</b>	1. Check compressor oil level.
	2. Check for oil and air leaks.
	3. Check compressor air filter maintenance indicator. Clean or change filter as required.
	4. Check safety switches.
<b>EVERY 50 HOURS OR WEEKLY</b>	1. Drain liquid from compressor sump. More frequent draining may be required under high humidity conditions.
	2. Inspect compressor mounting bolts.
	*3. After first 50 hours install Boss P/N 80384 50-Hour Maintenance Kit. Steps include changing oil and oil filter element. Then follow yearly maintenance schedule.
<b>EVERY 500 HOURS OR 1 YEAR</b>	1. Change compressor oil and oil filter element.
	2. Check compressor shaft seal for leakage.
	3. Check compressor air filter connections, fittings, and clamps.
	4. Install new air filter element.
	5. Check all door gaskets, hinges, and latches.
	6. Check airend pressure relief valve.
	7. Clean cooler fins on all coolers.
	8. Change coalescing element.

# Maintenance

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## Compressor Oil

### CAUTION

It is important that the compressor oil be of a recommended type, and inspected and replaced as stated in this manual.

### WARNING

The combination of a coalescer element loaded with dirt and oxidized oil products together with increased air velocity as a result of this clogged condition may produce a critical point while the machine is in operation where ignition can take place and could cause a fire in the separator tank.

The following are general characteristics for a rotary screw lubricant. Due to the impossibility of establishing limits on all physical and chemical properties of lubricants which can affect their performance in the compressor over a broad range of environmental influences, the responsibility for recommending and consistently furnishing a suitable heavy duty lubricant must rest with the individual supplier if they choose not to use the recommended Boss Industries, LLC ShieldWorks rotary screw lubricant. The lubricant supplier's recommendation must, therefore, be based upon not only the following general characteristics, but also upon his or her own knowledge of the suitability of the recommended lubricant in helical screw type air compressors operating in the particular environment involved.

### NOTICE

The Lifetime Warranty is initiated with the factory fill of the machine with Boss Industries, LLC ShieldWorks lubricant. To maintain lifetime warranty status on the aircend, the lifetime warranty registration must be completed and required maintenance schedules must be followed.

Recommended Compressor Lubricant: BOSS ShieldWorks

#### 1. Specifications

1. Flash point 496°F minimum.
2. Pour point -40°F.
3. Contains rust and corrosion inhibitors.
4. Contains foam suppressors.
5. Contains oxidation stabilizer.

### NOTICE

Due to environmental factors, the useful life of all "extended life" lubricants may be shorter than quoted by the lubricant supplier. Boss Industries, LLC encourages the user to closely monitor the lubricant condition and to participate in an oil analysis program with the supplier.

### NOTICE

No lubricant, however good and/or expensive, can replace proper maintenance and attention. Select and use it wisely.

# Maintenance

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## Compressor Oil Fill, Level, and Drain

Before adding or changing compressor oil, make sure that the compressor is completely relieved of pressure. The drain is located on the front of the machine towards the bottom of the aircend. To drain the oil, remove the cap from the oil drain hose and rotate the valve to the open position to release all of the oil from the compressor sump. When oil has been drained, rotate the valve to the closed position and reinstall the cap on the end of the hose.

Oil is added at the fill cap on the side of the machine. The proper oil level is in the middle of the oil sightglass when the unit is shut down and has had time to settle. The machine must be level when checking the oil. The fill neck is designed to prevent overfilling; however, care must still be taken to ensure the proper oil level. **DO NOT OVERFILL.** The oil capacity is given in “Compressor Specifications”.



Do not attempt to drain condensate, remove the oil level fill cap, or break any connection in the air oil system without shutting off the compressor and relieving the system of all stored air pressure.

## Changing the Oil Filter

The oil filter is a spin-on type element that is easily replaced through the maintenance access panel. First, remove the access panel from the right side (by the pressure gauge) of the machine by removing the 4 bolts securing it. Inside the access panel will be 2 spin-on filter elements: the oil filter and the air/oil coalescer. The oil filter will be on the left side and is the smaller of the 2 filters. To remove the old element, turn it counter-clockwise until it is loose and then lift it off of the stem and out of the access panel. It is normal for this filter to drip oil when it is removed. You may need the assistance of a band wrench to remove the old element, but new elements should be installed by hand tightening only. Once the old element is out, put a film of oil on the rubber ring of the new element and place it onto the stem and turn clockwise with your hands until it is tight. The element should spin on very freely until the last full turn. Make sure the threads are engaging properly if it does not spin freely. Once the new element has been installed, reinstall the access panel using the 2 bolts that were previously removed.



Do not substitute element. Use only a Boss Industries, LLC approved replacement element. This element is rated at 200 PSI working pressure. Use of any non-approved element may be hazardous and could impair the performance and reliability of the compressor, possibly voiding the warranty and/or resulting in damage to property and serious bodily harm.

# Maintenance

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## Changing the Air/Oil Coalescer

The air/oil coalescer is a spin-on type element that is easily replaced through the maintenance access panel. First, remove the access panel from the machine by removing the 3 bolts securing it. Directly inside the opening you will find the air/oil coalescer. This is the larger of the 2 spin-on elements. To remove the old element, turn it counter-clockwise until it is loose, and then lift it off of the stem and out of the access panel. It is normal for this filter to drip oil when it is removed. You may need the assistance of a band wrench to remove the old element, but new elements should be installed by hand tightening only. Once the old element is out, put a film of oil on the rubber ring of the new element and place it onto the stem and turn clockwise with your hands until it is tight. The element should spin on freely until the last full turn. Make sure the threads are engaging properly if it does not spin freely. Once the new element has been installed, reinstall the access panel using the 3 bolts that were previously removed.

### **WARNING**

Do not substitute element. Use only a Boss Industries, LLC approved replacement element. This element is rated at 290 PSI working pressure. Use of any non-approved element may be hazardous and could impair the performance and reliability of the compressor, possibly voiding the warranty and/or resulting in damage to property and serious bodily harm.

## Changing the Air Intake Filter

The air intake filter is a heavy-duty dry type high efficiency filter designed to protect the compressor from dust and foreign objects.

Frequency of maintenance of the filter depends on dust conditions at the operating site. The filter element must be serviced when clogged. A clogged air filter element will reduce compressor performance and cause premature wear of components.

To change the air filter element, first open the air filter access panel located on the front of the machine by turning the latch counter-clockwise and allowing the door to gently fall open. Make sure the machine is not running when you perform this or any other maintenance. Inside the access panel you will find an air filter assembly with 3 latches. Disengage each latch and pull the end cover off of the air filter assembly. Inside you will find the air filter element. Remove the air filter element by pulling and gently twisting. Install the new filter element in reverse fashion. Reinstall the air filter assembly end cover and latch all latches to ensure a tight seal on the element inside. Reset the air filter maintenance indicator located on the air filter outlet. Once the new element has been installed, relatch the air filter access panel in the closed position.

### **WARNING**

Do not substitute element. Use only a Boss Industries, LLC approved replacement element. Use of any non-approved element may be hazardous and could impair the performance and reliability of the compressor, possibly voiding the warranty and/or resulting in damage to property and serious bodily harm.

# Troubleshooting

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## Troubleshooting Overview

This section contains instructions for troubleshooting the equipment following a malfunction. The troubleshooting procedures to be performed on the equipment are listed below. Each symptom of trouble for a component or system is followed by a list of probable causes of the trouble and suggested procedures to be followed to eliminate the cause.

In general, the procedures listed should be performed in the order in which they are listed, although the order may be varied if the need is indicated by conditions under which the trouble occurred. In any event, the procedures that can be performed in the least amount of time and with the least amount of removal, disassembly, or parts should be performed first.

## Improper Discharge Pressure

If discharge pressure is too low, check the following:

- I. Too much air demand (Air tools required more air than the compressor can produce, air tools are free wheeling without resistance.)
- II. Service valve is wide open to atmosphere
- III. Leaks in service line
- IV. Restricted compressor inlet air filter
- V. Faulty control system operation (i.e. regulator is sending a signal to close the inlet valve at all times)

If discharge pressure is too high or the safety valve blows, check the following:

- I. Coalescer plugged or blocked
- II. Faulty safety valve
- III. Faulty regulator (regulator air pressure signal is not getting to inlet valve)

If pressure relief valve blows at compressor idle, check the following:

- I. Inlet valve leaking or open
- II. Faulty regulator

## Sump Pressure Does Not Blow Down

If after the compressor is shutdown, pressure does not automatically blow down (this process should take about 1 minute), check for:

- I. Blow down valve may be inoperative
- II. Blow down valve exhaust port plugged. Blow down valve should have a 9/64" orifice drilled into a 1/4" pipe plug that is installed in the exhaust port.

## Oil Consumption

Abnormal oil consumption or oil in service line can be caused by the following:

- I. Overfilling of oil sump
- II. Leaking oil lines or oil cooler
- III. Defective coalescer element
- IV. Compressor shaft seal leakage
- V. Discharge pressure below 65 PSI or above 175 PSI

Relieving pressure too quickly after shutdown will cause the oil to foam and spill out of the blow down valve.

# Troubleshooting

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## Coalescer Plugging

If the coalescer element has to be replaced frequently because it is plugging, it is an indication that foreign material may be entering the compressor inlet or the compressor oil is breaking down.

Compressor oil can break down prematurely for a number of reasons:

- I. Extreme operating temperature
- II. Negligence in draining condensate from oil sump
- III. Using the improper type of oil or dirty oil

## High Compressor Discharge Temperature

If the compressor shuts down on high temperature, do the following:

- I. Check compressor oil level. Add oil if required.
- II. Clean outside of oil cooler.
- III. Clean oil system (cooler) internally.
- IV. Check fan switch/relay harness. Fan should be running at all times when compressor is spinning.

## Contacting Boss Industries, LLC

If you need assistance with any of the preceding steps, or cannot find the solution to your problem, call the Boss Industries, LLC Service Department.

Phone: (800)635-6587 (USA)

Phone: (219)324-7776 (Outside USA)

Fax: (877)254-4249

Email: [service@bossair.com](mailto:service@bossair.com)

Website: <http://www.bossair.com>

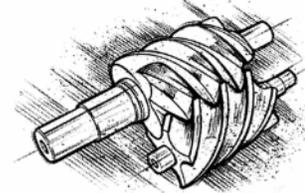
When calling for technical support, have the following information available:

Machine Serial Number

Description of the problem



# WARRANTY STATEMENT



This limited warranty provided by Boss Industries, LLC (“BOSS”) is subject to the expressed terms and conditions described herein. BOSS warrants to the machine’s original buyer (“BUYER”) that this compressor unit conforms to applicable drawings and specifications approved in writing by BOSS. The machine will be free from defects in material and workmanship for the period of time listed in the chart below while the machine is owned by BUYER.

This warranty is not transferable. The total responsibility of BOSS for claims, losses, liabilities, or damages, whether in contract or tort, related to its products shall not exceed the purchase price. In no event shall BOSS be liable for any special, indirect, incidental, or consequential damages including, but not limited to, loss of use of facilities or equipment, loss of profits, property damage, or lost production, whether suffered by BUYER or any third party. Warranty will be void if product is altered without written approval by BOSS. BOSS shall have no responsibility for any cost or expense incurred by BUYER if damage results from accident, misuse, neglect, improper installation, or the use of replacement parts or fluids not of BOSS manufacture. Wear caused by chemicals, abrasions, or excessive heat is not considered a defect and is not covered by this warranty. Maintenance and wear items such as lubricants, belts, seals, and filters are not warrantable items.

Component	Warranty Period
Rotary Screw Airend with Continuation of ShieldWorks Maintenance Plan	Lifetime*
Rotary Screw Airend	30 Months
Piston Pump	18 Months
PTO Factory Installation	12 Months
All Other Parts	Manufacturer’s Warranty

\*Every BOSS rotary screw airend comes prefilled with BOSS ShieldWorks, and the BUYER initiates the lifetime warranty program with completion of the lifetime warranty registration card. To continue the lifetime warranty coverage, this product must be registered and maintained according to the proper schedule. After purchase, BOSS ShieldWorks lubricant and oil filter must be replaced at fifty (50) hours of use. At one (1) year or five hundred (500) hours, whichever comes first, a complete service must be performed to maintain the warranty status, along with providing maintenance records to BOSS. After the initial year, the maintenance schedule should be followed per your provided manual, with record retention.

BUYER must provide written notice of each occurrence of an alleged defect in material or workmanship. If the machine is within the specified warranty period and has been registered and maintained according to the proper schedule, BOSS will provide return shipping instructions. Upon return of the item FOB BOSS original shipping point, BOSS will repair or replace the item or issue credit for replacement, provided it is found to be defective. Defective material must be returned within thirty (30) days of receiving return instructions from BOSS. Failure to do so within specified time will result in forfeiture of claim.

This warranty covers net cost of the part only. Labor, mileage, and travel time, including diagnostic calls to analyze the problem, are not covered by this or any other warranty. In the event of a warranty claim by an end-user, an authorized BOSS distributor shall be responsible for the initial investigation and warranty claim. The remedy of repair or replacement parts shall be carried out by BOSS or an authorized distributor.

Failure to follow procedures as laid out in this warranty statement may cause forfeiture of claim. Excess freight charges from failure to follow shipping instructions will be deducted from credit. Distributors or end-users automatically deducting the value of a warranty claim from outstanding balances due prior to receiving written notification of BOSS approval of the warranty claim may be subject to forfeiture of the entire claim.

*BOSS INDUSTRIES, LLC  
1761 GENESIS DRIVE  
LA PORTE, IN 46350  
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