Instruction manual

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Direct Drive Oil Lube Portable Air Compressor



To learn more about Porter-Cable visit our website at:

http://www.porter-cable.com



IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

Record these numbers in the spaces below and retain for future reference.				
	Model No.			
	Time			

The Model and Serial No. plate is located on the frame.

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Part No. A02250-041-0

Serial No.

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting **YOUR SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

ADANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.	ACAUTION Indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>minor or moderate injury.</u>
AWARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.	Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT SAFETY INSTRUCTIONS

AWARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some example of these chemicals are:

- lead from lead-based paints
- crystalline silica from bricks and cement and other masonry products
- arsenic and chromium from chemically-treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear **MSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools.

When using air tools, basic safety precautions should always be followed to reduce the risk of of personal injury.

READ AND FOLLOW ALL INSTRUCTIONS.

This tool was designed for certain applications. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager Porter-Cable Corporation 4825 Highway 45 North P.O. Box 2468 Jackson. TN 38302-2468

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IMPORTANT SAFETY INSTRUCTIONS



SAVE THESE INSTRUCTIONS



IMPROPER OPERATION OR MAINTENANCE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY AND PROPERTY DAMAGE. READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT.

HAZARD

RISK OF EXPLOSION OR FIRE





WHAT CAN HAPPEN

IT IS NORMAL FOR ELECTRICAL CONTACTS
WITHIN THE MOTOR AND PRESSURE SWITCH
TO SPARK.

IF ELECTRICAL SPARKS FROM COMPRESSOR COME INTO CONTACT WITH FLAMMABLE VAPORS, THEY MAY IGNITE, CAUSING FIRE OR EXPLOSION.

RESTRICTING ANY OF THE COMPRESSOR VENTILATION OPENINGS WILL CAUSE SERIOUS OVERHEATING AND COULD CAUSE FIRE.

UNATTENDED OPERATION OF THIS PRODUCT COULD RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. TO REDUCE THE RISK OF FIRE, DO NOT ALLOW THE COMPRESSOR TO OPERATE UNATTENDED.

HOW TO PREVENT IT

ALWAYS OPERATE THE COMPRESSOR IN A WELL VENTILATED AREA FREE OF COMBUSTIBLE MATERIALS, GASOLINE OR SOLVENT VAPORS.

IF SPRAYING FLAMMABLE MATERIALS, LOCATE COMPRESSOR AT LEAST 20 FEET AWAY FROM SPRAY AREA. AN ADDITIONAL LENGTH OF HOSE MAY BE REQUIRED.

STORE FLAMMABLE MATERIALS IN A SECURE LOCATION AWAY FROM COMPRESSOR.

NEVER PLACE OBJECTS AGAINST OR ON TOP OF COMPRESSOR. OPERATE COMPRESSOR IN AN OPEN AREA AT LEAST 12 INCHES AWAY FROM ANY WALL OR OBSTRUCTION THAT WOULD RESTRICT THE FLOW OF FRESH AIR TO THE VENTILATION OPENINGS.

OPERATE COMPRESSOR IN A CLEAN, DRY, WELL VENTILATED AREA. DO NOT OPERATE UNIT INDOORS OR IN ANY CONFINED AREA.

ALWAYS REMAIN IN ATTENDANCE WITH THE PRODUCT WHEN IT IS OPERATING.

ALWAYS DISCONNECT ELECTRICAL POWER BY MOVING PRESSURE SWITCH LEVER TO THE OFF POSITION AND DRAIN TANK DAILY OR AFTER EACH USE.

RISK OF BURSTING



<u>AIR TANK:</u> THE FOLLOWING CONDITIONS COULD LEAD TO A WEAKENING OF THE TANK, AND RESULT IN A VIOLENT TANK EXPLOSION AND COULD CAUSE PROPERTY DAMAGE OR SERIOUS INJURY.

WHAT CAN HAPPEN	HOW TO PREVENT IT					
1. FAILURE TO PROPERLY DRAIN CONDENSED WATER FROM THE TANK, CAUSING RUST AND THINNING OF THE STEEL TANK.	DRAIN TANK DAILY OR AFTER EACH USE. IF TANK DEVELOPS A LEAK, REPLACE IT IMMEDIATELY WITH A NEW TANK OR REPLACE THE ENTIRE COMPRESSOR.					
2. MODIFICATIONS OR ATTEMPTED REPAIRS TO THE TANK.	NEVER DRILL INTO, WELD, OR MAKE ANY MODIFICATIONS TO THE TANK OR ITS					
3. UNAUTHORIZED MODIFICATIONS TO THE UNLOADER VALVE, SAFETY VALVE, OR ANY OTHER COMPONENTS WHICH CONTROL TANK PRESSURE. 4. EXCESSIVE VIBRATION CAN WEAKEN THE AIR TANK AND CAUSE RUPTURE OR EXPLOSION.	ATTACHMENTS. THE TANK IS DESIGNED TO WITHSTAND SPECIFIC OPERATING PRESSURES. NEVER MAKE ADJUSTMENTS OR PARTS SUBSTITUTIONS TO ALTER THE FACTORY SET OPERATING PRESSURES.					
ATTACHMENTS & ACCESSORIES: EXCEEDING THE PRESSURE RATING OF AIR TOOLS, SPRAY GUNS, AIR OPERATED ACCESSORIES, TIRES AND OTHER INFLATABLES CAN CAUSE THEM TO EXPLODE OR FLY APART, AND COULD RESULT IN SERIOUS INJURY.	FOR ESSENTIAL CONTROL OF AIR PRESSURE, YOU MUST INSTALL A PRESSURE REGULATOR AND PRESSURE GAUGE TO THE AIR OUTLET (IF NOT EQUIPPED) OF YOUR COMPRESSOR. FOLLOW THE EQUIPMENT MANUFACTURERS RECOMMENDATION AND NEVER EXCEED THE MAXIMUM ALLOWABLE PRESSURE RATING OF ATTACHMENTS. NEVER USE COMPRESSOR TO INFLATE SMALL LOW-					

HAZARD

RISK FROM FLYING OBJECTS



PRESSURE OBJECTS SUCH AS CHILDREN'S TOYS, FOOTBALLS, BASKETBALLS, ETC.

WHAT CAN HAPPEN	HOW TO PREVENT IT
THE COMPRESSED AIR STREAM CAN CAUSE SOFT TISSUE DAMAGE TO EXPOSED SKIN AND CAN PROPEL DIRT, CHIPS, LOOSE PARTICLES AND SMALL OBJECTS AT HIGH SPEED, RESULTING IN PROPERTY DAMAGE OR PERSONAL INJURY.	ALWAYS WEAR ANSI Z87.1 APPROVED SAFETY GLASSES WITH SIDE SHIELDS WHEN USING THE COMPRESSOR. NEVER POINT ANY NOZZLE OR SPRAYER TOWARD ANY PART OF THE BODY OR AT OTHER PEOPLE OR ANIMALS.
	ALWAYS TURN THE COMPRESSOR OFF AND BLEED PRESSURE FROM THE AIR HOSE AND TANK BEFORE ATTEMPTING MAINTENANCE, ATTACHING TOOLS OR ACCESSORIES.

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RISK OF ELECTRICAL SHOCK



WHAT CAN HAPPEN

YOUR AIR COMPRESSOR IS POWERED BY ELECTRICITY. LIKE ANY OTHER ELECTRICALLY POWERED DEVICE, IF IT IS NOT USED PROPERLY IT MAY CAUSE ELECTRIC SHOCK.

REPAIRS ATTEMPTED BY UNQUALIFIED PERSONNEL CAN RESULT IN SERIOUS INJURY OR DEATH BY ELECTROCUTION.

ELECTRICAL GROUNDING: FAILURE TO PROVIDE ADEQUATE GROUNDING TO THIS PRODUCT COULD RESULT IN SERIOUS INJURY OR DEATH FROM ELECTROCUTION. SEE GROUNDING INSTRUCTIONS.

HOW TO PREVENT IT

NEVER OPERATE THE COMPRESSOR OUTDOORS WHEN IT IS RAINING OR IN WET CONDITIONS.

NEVER OPERATE COMPRESSOR WITH PROTECTIVE COVERS REMOVED OR DAMAGED.

ANY ELECTRICAL WIRING OR REPAIRS REQUIRED ON THIS PRODUCT SHOULD BE PERFORMED BY AUTHORIZED SERVICE CENTER PERSONNEL IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

MAKE CERTAIN THAT THE ELECTRICAL CIRCUIT TO WHICH THE COMPRESSOR IS CONNECTED PROVIDES PROPER ELECTRICAL GROUNDING, CORRECT VOLTAGE AND ADEQUATE FUSE PROTECTION.

HAZARD

RISK TO BREATHING



WHAT CAN HAPPEN

THE COMPRESSED AIR DIRECTLY FROM YOUR COMPRESSOR IS NOT SAFE FOR BREATHING. THE AIR STREAM MAY CONTAIN CARBON MONOXIDE, TOXIC VAPORS, OR SOLID PARTICLES FROM THE TANK. BREATHING THESE CONTAMINANTS CAN CAUSE SERIOUS INJURY OR DEATH.

SPRAYED MATERIALS SUCH AS PAINT, PAINT SOLVENTS, PAINT REMOVER, INSECTICIDES, WEED KILLERS, MAY CONTAIN HARMFUL VAPORS AND POISONS.

COMPRESSOR SHOULD NEVER BE USED TO SUPPLY AIR FOR HUMAN CONSUMPTION. IN ORDER TO USE AIR PRODUCED BY THIS COMPRESSOR FOR BREATHING, SUITABLE FILTERS AND IN-LINE SAFETY EQUIPMENT MUST BE PROPERLY INSTALLED. IN-LINE FILTERS AND SAFETY EQUIPMENT USED IN CONJUNCTION WITH THE COMPRESSOR MUST BE CAPABLE OF TREATING AIR TO ALL

APPLICABLE LOCAL AND FEDERAL CODES PRIOR TO HUMAN CONSUMPTION.

HOW TO PREVENT IT

OBTAINED DIRECTLY FROM

WORK IN AN AREA WITH GOOD CROSS-VENTILATION. READ AND FOLLOW THE SAFETY INSTRUCTIONS PROVIDED ON THE LABEL OR SAFETY DATA SHEETS FOR THE MATERIAL YOU ARE SPRAYING. USE A NIOSH/MSHA APPROVED RESPIRATOR DESIGNED FOR USE WITH YOUR SPECIFIC APPLICATION.

RISK OF BURNS



WHAT CAN HAPPEN	HOW TO PREVENT IT			
TOUCHING EXPOSED METAL SUCH AS THE COMPRESSOR HEAD OR OUTLET TUBES, CAN RESULT IN SERIOUS BURNS.	NEVER TOUCH ANY EXPOSED METAL PARTS ON COMPRESSOR DURING OR IMMEDIATELY AFTER OPERATION. COMPRESSOR WILL REMAIN HOT FOR SEVERAL MINUTES AFTER OPERATION. DO NOT REACH AROUND PROTECTIVE SHROUDS OR ATTEMPT MAINTENANCE			

RISK FROM MOVING PARTS





WHAT CAN HAPPEN	HOW TO PREVENT IT
MOVING PARTS SUCH AS THE PULLEY, FLYWHEEL AND BELT CAN CAUSE SERIOUS INJURY IF THEY COME INTO CONTACT WITH YOU OR YOUR CLOTHING.	NEVER OPERATE THE COMPRESSOR WITH GUARDS OR COVERS WHICH ARE DAMAGED OR REMOVED.
ATTEMPTING TO OPERATE COMPRESSOR WITH DAMAGED OR MISSING PARTS OR ATTEMPTING TO REPAIR COMPRESSOR WITH PROTECTIVE SHROUDS REMOVED CAN EXPOSE YOU TO MOVING PARTS AND CAN RESULT IN SERIOUS INJURY.	ANY REPAIRS REQUIRED ON THIS PRODUCT SHOULD BE PERFORMED BY AUTHORIZED SERVICE CENTER PERSONNEL.

HAZARD **RISK OF FALLING**



WHAT CAN HAPPEN	HOW TO PREVENT IT
A PORTABLE COMPRESSOR CAN FALL FROM A TABLE, WORKBENCH OR ROOF CAUSING DAMAGE TO THE COMPRESSOR AND COULD RESULT IN SERIOUS INJURY OR DEATH TO THE OPERATOR.	ALWAYS OPERATE COMPRESSOR IN A STABLE SECURE POSITION TO PREVENT ACCIDENTAL MOVEMENT OF THE UNIT. NEVER OPERATE COMPRESSOR ON A ROOF OR OTHER ELEVATED POSITION. USE ADDITIONAL AIR HOSE TO REACH HIGH LOCATIONS.

RISK OF PROPERTY DAMAGE WHEN TRANSPORTING COMPRESSOR

(Fire, Inhalation, Damage to Vehicle Surfaces)



WHAT CAN HAPPEN	HOW TO PREVENT IT
OIL CAN LEAK OR SPILL AND COULD	ALWAYS PLACE COMPRESSOR ON A
RESULT IN FIRE OR BREATHING HAZARD,	PROTECTIVE MAT WHEN TRANSPORTING TO
SERIOUS INJURY OR DEATH CAN RESULT.	PROTECT AGAINST DAMAGE TO VEHICLE
OIL LEAKS WILL DAMAGE CARPET, PAINT OR	FROM LEAKS. REMOVE COMPRESSOR FROM
OTHER SURFACES IN VEHICLES OR	VEHICLE IMMEDIATELY UPON ARRIVAL AT
TRAILERS.	YOUR DESTINATION.

RISK OF UNSAFE OPERATION



WHAT CAN HAPPEN	HOW TO PREVENT IT
UNSAFE OPERATION OF YOUR AIR COMPRESSOR COULD LEAD TO SERIOUS IN- JURY OR DEATH TO YOU OR OTHERS.	REVIEW AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL. BECOME FAMILIAR WITH THE OPERATION AND CONTROLS OF THE AIR COMPRESSOR. KEEP OPERATING AREA CLEAR OF ALL PERSONS, PETS, AND OBSTACLES. KEEP CHILDREN AWAY FROM THE AIR COMPRESSOR AT ALL TIMES. DO NOT OPERATE THE PRODUCT WHEN FATIGUED OR UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. STAY ALERT AT ALL TIMES. NEVER DEFEAT THE SAFETY FEATURES OF THIS PRODUCT. EQUIP AREA OF OPERATION WITH A FIRE EXTINGUISHER. DO NOT OPERATE MACHINE WITH MISSING, BROKEN, OR UNAUTHORIZED PARTS.

GLOSSARY

Become familiar with these terms before operating the unit.

CFM: Cubic feet per minute.

SCFM: Standard cubic feet per minute; a unit of measure of air delivery. **PSIG:** Pounds per square inch gauge; a unit of measure of pressure.

Code Certification: Products that bear one or more of the following marks: UL, CUL, ETL, CETL, have been evaluated by OSHA certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety.

Cut-In Pressure: While the motor is off, air tank pressure drops as you continue to use your accessory. When the tank pressure drops to a certain low level the motor will restart automatically. The low pressure at which the motor automatically restarts is called "cut-in" pressure.

Cut-Out Pressure: When an air compressor is turned on and begins to run, air pressure in the air tank begins to build. It builds to a certain high pressure before the motor automatically shuts off - protecting your air tank from pressure higher than its capacity. The high pressure at which the motor shuts off is called "cut-out" pressure.

Branch Circuit: Circuit carrying electricity from electrical panel to outlet.

DUTY CYCLE

Porter-Cable air compressors should be operated on not more than a 50% duty cycle. This means an air compressor that pumps air more than 50% of one hour is considered misuse, because the air compressor is undersized for the required air demand. Maximum compressor pumping time per hour is 30 minutes.

SPECIFICATIONS

	Model No.	CPLDC2540S
	Horsepower Peak	2.5
	Bore	2.363"
	Stroke	.890"
*	Voltage-Single Phase	120
* *	Minimum Branch Circuit Requirement	15 amps
*	Fuse Type	Time Delay
	Air Tank Capacity (Gallon)	4.3
	Approximate Cut-in Pressure	120 PSIG
	Approximate Cut-out Pressure	150 PSIG
	SCFM @ 40 PSIG	5.4
	SCFM @ 90 PSIG	4.0

* This air compressor can be operated on a 15 amp circuit if:

- 1. Voltage supply to circuit is normal.
- 2. Circuit is not used to supply any other electrical needs (lights, appliances, etc.)
- 3. Extension cords comply with specifications in owners manual.
- 4. Circuit is equipped with 15 amp circuit breaker or 15 amp time delay fuse.

If any of the above conditions cannot be met, or if operation of the air compressor repeatedly causes interruption of the power it may be necessary to operate it from a 20 amp circuit. It is not necessary to change the cord set.

* * A circuit breaker is preferred. Use only a fuse or circuit breaker that is the same rating as the branch circuit on which the air compressor is operated. If the air compressor is connected to a circuit protected by fuses, use dual element time delay fuses.

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ACCESSORIES

Accessories for this unit are available at the store the unit was purchased.

ASSEMBLY

To Add Oil To Pump

A CAUTION DO NOT ATTEMPT TO OPERATE THIS AIR COMPRESSOR WITHOUT FIRST ADDING OIL TO THE

CRANKCASE. Serious damage can result from even limited operation unless filled with oil and broken in correctly. Make sure to closely follow initial start-up procedures.

COMPRESSORS ARE SHIPPED WITHOUT OIL. A small amount of oil may be present in the pump upon receipt of the air compressor. This is due to plant testing and does not mean the pump contains oil.

Multi-Viscosity motor oils, like 10W 30, should not be used in an air compressor. They leave carbon deposits on critical components, thus reducing performance and compressor life. Use air compressor oil only.

NOTE: Use an air compressor oil such as SAE-30 (API CG/CD heavy duty motor oil). Under extreme winter conditions use SAE-10 weight oil.

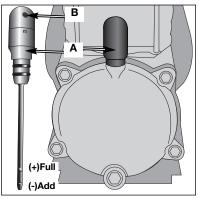
1. Place unit on a level surface.

AWARNING Drain tank to release air pressure before removing the dipstick.

AWARNING Make sure air vent (B) in dipstick is free from

debris. If air vent is blocked pressure can build in crankcase causing damage to air compressor and possible personal injury.

 Remove dipstick (A) and slowly fill crankcase with oil. Crankcase capacity is 6 fluid ounces (177.4 ml). Oil level should be at the + (full) mark on the dipstick.



NOTE: If the oil is added too quickly, it will overflow and appear to be full.

3. Replace dipstick.

INSTALLATION

HOW TO SET UP YOUR UNIT

Location of the Air Compressor

- Locate the air compressor in a clean, dry, and well ventilated area.
- The air compressor should be located at least 12" away from the wall or other obstructions that will interfere with the flow of air.
- The air filter must be kept clear of obstructions which could reduce air flow to the air compressor.
- The air compressor requires fresh air flow for proper cooling. DO NOT ALLOW THE COMPRESSOR TO GET WET.

GROUNDING INSTRUCTIONS

RISK OF ELECTRICAL SHOCK. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. This air compressor must be properly grounded.

The portable air compressor is equipped with a cord having a grounding wire with an appropriate grounding plug (see following illustrations).

 The cord set and plug with this unit contains a grounding pin. This plug MUST be used with a grounded outlet.

IMPORTANT: The outlet being used must be installed and grounded in accordance with all local codes and ordinances.

- Make sure the outlet being used has the same configuration as the grounded plug. DO NOT USE AN ADAPTER. See illustration.
- Inspect the plug and cord before each use. Do not use if there are signs of damage.
- Plug
 Grounded
 Outlets
 Grounding Pin
- 4. If these grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded, have the installation checked by a qualified electrician.

AWARNING IMPROPER GROUNDING CAN RESULT IN ELECTRICAL SHOCK.

Do not modify the plug provided. If it does not fit the available outlet, a correct outlet should be installed by a qualified electrician.

Repairs to the cord set or plug MUST be made by a qualified electrician.

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Extension Cords

Use extra air hose instead of an extension cord to avoid voltage drop and power loss to the motor, and to prevent overheating.

If an extension cord must be used, be sure it is:

- a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the product
- in good condition
- no longer than 50 feet
- 12 gauge (AWG) or larger. (Wire size increases as gauge number decreases. 10 AWG and 8 AWG may also be used. DO NOT USE 14 OR 16 AWG.)

Voltage and Circuit Protection

Refer to the Parts Manual for the voltage and minimum branch circuit requirements.

Certain air compressors can be operated on a 15 amp circuit if the following conditions are met.

- 1. Voltage supply through branch circuit is 15 amps.
- Circuit is not used to supply any other electrical needs (lights, appliances, etc.).
- 3. Extension cords comply with specifications.
- 4. Circuit is equipped with a 15 amp circuit breaker or 15 amp time delay fuse. NOTE: If compressor is connected to a circuit protected by fuses, use only time delay fuses. Time delay fuses should be marked "D" in Canada and "T" in the US.

If any of the above conditions cannot be met, or if operation of the compressor repeatedly causes interruption of the power, it may be necessary to operate it from a 20 amp circuit. It is not necessary to change the cord set.

OPERATION

Know Your Air Compressor

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR UNIT. Compare the illustrations with your unit to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

Description of Operation

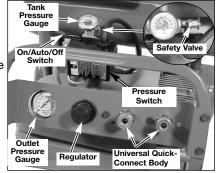
Become familiar with these controls before operating the unit.

On/Auto/Off Switch: Turn this switch ON to provide automatic power to the

pressure switch and OFF to remove power at the end of each use.

Pressure Switch: The pressure switch automatically starts the motor when the air tank pressure drops below the factory set "cut-in" pressure. It stops the motor when the air tank pressure reaches the factory set "cut-out" pressure.

Safety Valve: If the pressure switch does not shut off the air compressor at its "cut-out" pressure setting, the safety valve will protect against high pressure by "popping out" at its factory set



Drain Valve

pressure (slightly higher than the pressure switch "cut-out" setting).

Outlet Pressure Gauge: The outlet pressure gauge indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator and is always less than or equal to the tank pressure.

Tank Pressure Gauge: The tank pressure gauge indicates the reserve air pressure in the tank.

Regulator: Controls the air pressure shown on the outlet pressure gauge. Pull the knob out and turn clockwise to increase pressure and counterclockwise to decrease pressure. When the desired pressure is reached push knob in to lock in place.

Universal Quick-Connect Body: The universal quick-connect body accepts the three most popular styles of quick-connect plugs- Industrial, automotive (Tru-flate), and ARO. One hand push-to-connect operation makes connections simple and easy. The two quick connect bodies allow the use of two tools at the same time.

Drain Valve: The drain valve is located at the base of the air tank and is used to drain condensation at the end of each use.

Cooling System (not shown): This compressor contains an advanced design cooling system. At the heart of this cooling system is an engineered

fan. It is perfectly normal for this fan to blow air over the pump head, cylinder sleeve, and crankcase. You know the cooling system is working when air is being expelled.

Air Compressor Pump (not shown): Compresses air into the air tank. Working air is not available until the compressor has raised the air tank pressure above that required at the air outlet.

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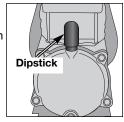
Dipstick: Indicates the amount of oil in the pump, the + mark indicates full and the - mark indicates oil needs to be added. See Oil paragraphs in the Maintenance section for instructions.

Motor Thermal Overload Protector (not shown): The motor has an automatic reset thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. The compressor will automatically restart after the motor cools.

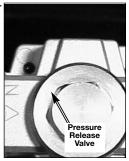
Air Intake Filter: This filter is designed to clean air coming into the pump. This filter must always be clean and ventilation openings free from obstructions. See "Maintenance".

Check Valve: When the air compressor is operating, the check valve is "open", allowing compressed air to enter the air tank. When the air compressor reaches "cut-out" pressure, the check valve "closes", allowing air pressure to remain inside the air tank.

Pressure Release Valve: The pressure release valve located on the side of the pressure switch, is designed to automatically release compressed air from the compressor head and the outlet tube when the air compressor reaches "cut-out" pressure or is shut off. The pressure release valve allows the motor to restart freely. When the motor stops running, air will be heard escaping from this valve for a few seconds. No air should be heard leaking when the motor is running, or continuous leaking after unit reaches "cut-out" pressure.







How to Use Your Unit

How to Stop:

1. Set the On/Auto/Off lever to "OFF".

Before Starting

Break-in Procedure

▲WARNING

Serious damage may result if the following break-in instructions are not closely followed.

This procedure is required **before** the air compressor is put into service and when the check valve or a complete compressor pump has been replaced.

- 1. Make sure the On/Auto/Off lever is in the "OFF" position.
- 2. Check oil level in pump. See "Oil" paragraph in the "Maintenance" section for instructions.

NOTE: Pull coupler back until it clicks to prevent air from escaping through the quick connect.

- Plug the power cord into the correct branch circuit receptacle. (Refer to Voltage and Circuit Protection paragraph in the Installation section of this manual.)
- 4. Open the drain valve fully (counter-clockwise) to permit air to escape and prevent air pressure build up in the air tank during the break-in period.
- Move the On/Auto/Off lever to "ON/AUTO" position. The compressor will start.
- 6. Run the compressor for 20 minutes. Make sure the drain valve is open and there is minimal air pressure build-up in tank.
- 7. After 20 minutes, close the drain valve (clockwise). The air receiver will fill to "cut-out" pressure and the motor will stop.

The compressor is now ready for use.

Before Each Start-Up:

- 1. Place On/Auto/Off lever to "OFF".
- Pull regulator knob out, turn counter-clockwise until it stops. Push knob in to lock in place.
- Attach hose and accessories. NOTE: The hose or accessory will require a quick connect plug if the air outlet is equipped with a quick connect socket.

Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating.

How to Start:

- Turn the On/Auto/Off lever to "AUTO" and allow tank pressure to build. Motor will stop when tank pressure reaches "cut-out" pressure.
- Pull the regulator knob out and turn clockwise to increase pressure. When the desired pressure is reached push knob in to lock in place. The compressor is ready for use.

NOTE: Always operate the air compressor in well-ventilated areas free of gasoline or other combustible vapors. If the compressor is being used to operate a sprayer DO NOT place near the spray area.

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MAINTENANCE

Customer Responsibilities

	Before each use	Daily or after each use	Every 8 hours	Every 40 hours	Every 160 hours	Every 100 hours	Yearly
Check Safety Valve	•						
Drain Tank		•					
Oil Leaks			•				
Check Oil			•				
Change Oil						•	
Air Filter				● ¹			
1- more frequent in dusty or humid conditions							

Unit cycles automatically when power is on. When performing maintenance, you may be exposed to voltage sources, compressed air, or moving parts. Personal injuries can occur. Before performing any maintenance or repair, disconnect power source from the compressor and bleed off all air pressure.

To ensure efficient operation and longer life of the air compressor outfit, a routine maintenance schedule should be prepared and followed. The following routine maintenance schedule is geared to an outfit in a normal working environment operating on a daily basis. If necessary, the schedule should be modified to suit the conditions under which your compressor is used. The modifications will depend upon the hours of operation and the working environment. Compressor outfits in an extremely dirty and/or hostile environment will require a greater frequency of all maintenance checks.

NOTE: See "Operation" section for the location of controls.

To Check Safety Valve

AWARNING If the safety valve does not work properly, overpressurization may occur, causing air tank rupture or an explosion.

 Before starting compressor, pull the ring on the safety valve to make sure that the safety valve operates freely. If the valve is stuck or does not operate smoothly, it must be replaced with the same type of valve.

To Drain Tank

- 1. Set the On/Auto/Off lever to "OFF".
- Pull the regulator knob out and turn clockwise to set the outlet pressure to zero.
- 3. Remove the air tool or accessory.
- 4. Pull ring on safety valve allowing air to bleed from the tank until tank pressure is approximately 20 psi. Release safety valve ring.

Drain water from air tank by opening drain valve (counter-clockwise) on bottom of tank. NOTE: Tilt tank forward to drain tank completely.

WARNING
Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

After the water has been drained, close the drain valve (clockwise). The air compressor can now be stored.

NOTE: If drain valve is plugged, release all air pressure. The valve can then be removed, cleaned, then reinstalled.

Oil

Drain tank to release air pressure before removing the dipstick or oil drain plug.

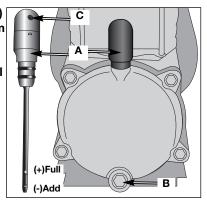
AWARNING Compressor head and cylinder sleeve are very hot. Do not touch.

Checking

- 1. Set the On/Auto/Off lever to "OFF".
- Remove dipstick (A) and check oil on dipstick for visual signs of contaminants (water, dirt, etc).

Make sure air vent (C) in dipstick is free from debris. If air vent is blocked pressure can build in crankcase causing damage to air compressor and possible personal injury.

- 3. Wipe oil from dipstick.
- 4. Replace dipstick and allow oil to collect on dipstick.
- 5. Remove dipstick and check oil level on dipstick, + mark indicates full and the mark indicates add oil. If oil level is below mark, slowly add oil until it reaches the + (full) mark on the dipstick.



NOTE: Use a air compressor oil such as SAE-30 (API CG/CD heavy duty motor oil. Under extreme winter conditions use SAE-10 weight oil.

6. Replace dipstick (A).

Changing

- 1. Set the On/Auto/Off lever to "OFF".
- 2. Remove the dipstick (A).
- 3. Remove the oil drain plug (B) and drain oil into a suitable container.
- 4. Replace the oil drain plug (B).

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NOTE: Use a air compressor oil such as SAE-30 (API CG/CD heavy duty motor oil. Under extreme winter conditions use SAE-10 weight oil.

 Slowly fill crankcase with oil. Crankcase capacity is 6 fluid ounces (177.4 ml). Oil level should be at the + (full) mark on the dipstick.

ACAUTION Overfilling with oil will cause premature compressor failure. Do not overfill.

6. Replace dipstick (A).

Air Filter - Inspection and Replacement

AWARNING

Hot surfaces. Risk of burn. Compressor heads are exposed when filter cover is removed. Allow compressor to cool prior to servicing.

A dirty air filter will not allow the compressor to operate at full capacity. Keep the air filter clean at all times.

- Remove the air filter cover.
- Remove the air filter from filter cover.

IMPORTANT: Do not operate the compressor with the air filter removed.

- 3. Place new air filter into filter cover. Refer to the "Repair Parts" for the correct part number.
- 4. Replace air filter cover and lock into place.

Motor

The motor has an automatic reset thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. The compressor will automatically restart after the motor cools.

If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

- 1. The motor does not get up to full power or speed.
- 2. Fuses blow out when starting the motor; lights dim and remain dim when motor is started and is running.

SERVICE AND ADJUSTMENTS

AWARNING Unit cycles automatically when power is on. When doing Maintenance, you may be exposed to voltage sources, compressed air or moving parts. Personal injuries can occur. Before performing any Maintenance or repair, unplug the compressor and bleed off all air pressure.

ALL MAINTENANCE AND REPAIR OPERATIONS NOT LISTED MUST BE PERFORMED BY TRAINED SERVICE TECHNICIAN.

AWARNING Before servicing:

- Unplug or disconnect electrical supply to the air compressor.
- Bleed tank of pressure.
- Allow the air compressor to cool.

To Replace or Clean Check Valve

- Release all air pressure from air tank. See "To Drain Tank" in the 1. Maintenance section.
- 2. Unplug outfit.

3. Using an adjustable wrench loosen outlet tube nut at air tank and pump.

Carefully move outlet tube away from check valve.

4. Using an adjustable wrench loosen pressure relief tube nut at air tank and pressure switch. Carefully move pressure relief tube away from check valve.

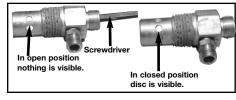
5. Unscrew the check valve (turn counterclockwise) using a 7/8" open end wrench. Note the orientation for reassembly.

6. Unscrew elbow fitting from the check valve (turn counterclockwise) using an adjustable wrench. Note the orientation of the elbow fitting for reassembly.

Using a screwdriver, carefully push the valve disc up and down. NOTE: 7.

The valve disc should move freely up and down on a spring which holds the valve disc in the closed position, if not the check valve needs to be cleaned or replaced.

Clean or replace the check 8. valve. A solvent, such as paint



Nuts

Outlet Tube

Elbow Fitting

Pressure Relief

Check

Tube

- or varnish remover can be used to clean the check valve. Apply sealant to the check valve threads. Reinstall the check valve and 9. elbow fitting (turn clockwise).
- 10. Replace the pressure release tube. Tighten nut.
- 11. Replace the outlet tube and tighten nut.
- 12. Perform the Break-in Procedure. See "Break-in Procedure" in the Operation section.

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STORAGE

Before you store the air compressor, make sure you do the following:

- Review the "Maintenance" section on the preceding pages and perform scheduled maintenance as necessary.
- 2. Set the On/Auto/Off lever to "OFF".
- 3. Turn the regulator counterclockwise and set the outlet pressure to zero.
- 4. Remove the air tool or accessory.
- 5. Pull ring on safety valve allowing air to bleed from the tank until tank pressure is approximately 20 psi. Release safety valve ring.
- 6. Drain water from air tank by opening drain valve on bottom of tank.

AWARNING Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

7. After the water has been drained, close the drain or drain valve.

NOTE: If drain valve is plugged, release all air pressure. The valve can then be removed, cleaned, then reinstalled.

 Protect the electrical cord and air hose from damage (such as being stepped on or run over). Wind them loosely around the compressor handle. (If so equipped)

Store the air compressor in a clean and dry location.

TROUBLESHOOTING

AWARNING

Performing repairs may expose voltage sources, moving parts or compressed air sources, moving parts or compressed air sources. Personal injury may occur. Prior to attempting any repairs, unplug the air compressor and bleed off all air tank air pressure.

PROBLEM	CAUSE	CORRECTION			
Excessive tank pressure - safety valve pops off.	Pressure switch does not shut off motor when compressor reaches "cutout" pressure. Pressure switch "cut-out" too high.	Move On/Auto/Off lever to the "OFF" position, if the outfit does not shut off contact a Trained Service Technician. Contact a Trained Service Technician.			
Air leaks at fittings.	Tube fittings are not tight enough.	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. DO NOT OVERTIGHTEN.			
Air leaks at or inside check valve	Check valve seat damaged.	A defective check valve results in a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off. Replace check valve. Refer the "To Replace or Clean Check Valve" in the "Service and Adjustment" section.			
Air leaks at pressure switch release valve. (if equipped)	Defective pressure switch release valve.	Contact a Trained Service Technician.			
Air leaks in air tank or at air tank welds.	Defective air tank.	Air tank must be replaced. Do not repair the leak. AWARNING On not drill into, weld or otherwise modify air tank or it will weaken. The tank can rupture or explode.			
Air leaks between head and valve plate.	Leaking seal.	Contact a Trained Service Technician.			

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PROBLEM	CAUSE	CORRECTION
Pressure reading on the regulated pressure gauge (if equipped) drops when an accessory is used.	It is normal for "some" pressure drop to occur.	If there is an excessive amount of pressure drop when the accessory is used, adjust the regulator as instructed in the Operation section. NOTE: Adjust the regulated pressure under flow conditions (while accessory is being used).
Air leak from safety valve.	Possible defect in safety valve.	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.
Compressor is	Prolonged excessive use of air.	Decrease amount of air usage.
not supplying enough air to operate accessories.	Compressor is not large enough for air requirement. Hole in hose.	Check the accessory air requirement. If it is higher than the SCFM or pressure supplied by your air compressor, you need a larger compressor. Check and replace if required.
		Remove and clean, or replace.
	Check valve restricted.	Tighten fittings.
	Air leaks. Restricted air intake filter	Clean or replace air intake filter. Do not operate the air compressor with the filter removed. Refer to the "Air Filter" paragraph in the "Maintenance " section.
Restricted air intake	Dirty air filter.	Clean or replace. See Air Filter paragraph in the Maintenance section.
Regulator knob has continuous air leak.	Damaged regulator	Contact a Trained Service Technician.
Regulator will not shut off air outlet.	Damaged regulator	Contact a Trained Service Technician.

PROBLEM	CAUSE	CORRECTION
Motor will not run.	Motor overload protection switch has tripped	Let motor cool off and overload switch will automatically reset.
	Tank pressure exceeds pressure switch "cut-in" pressure.	Motor will start automatically when tank pressure drops below "cut-in" pressure of pressure switch.
	Check valve stuck open.	Remove and clean, or replace.
	Loose electrical connections.	Check wiring connection inside pressure switch and terminal box area.
	Possible defective motor or starting capacitor.	Have checked by a Trained Service Technician.
	Paint spray on internal motor parts.	Have checked by a Trained Service Technician. Do not operate the compressor in the paint spray area. See flammable vapor warning.
	Pressure release valve on pressure switch has not unloaded head pressure.	Bleed the line by pushing the lever on the pressure switch to the "off" position; if the valve does not open, replace switch.
	Fuse blown, circuit breaker tripped.	 Check fuse box for blown fuse and replace as necessary. Reset circuit breaker. Do not use a fuse or circuit breaker with higher rating than that specified for your particular branch circuit. Check for proper fuse. You should use a time delay fuse. Check for low voltage conditions and/or proper extension cord. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit.

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PROBLEM	CAUSE	CORRECTION
Knocking Noise.	Possible defect in safety valve.	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.
	Defective check valve.	Remove and clean, or replace.
	Compressor mounting screws loose	Tighten mounting screws,see Parts manual for torque specifications.
	Carbon build-up in pump	Have checked by a Trained Service Technician.
Squealing sound.	Compressor pump has no oil.	See Oil-Checking paragraph in the Maintenance section.

LIMITED WARRANTY

PORTER-CABLE CORPORATION warrants to the original purchaser that each new air compressor and service part is free from defects in material and workmanship and agrees to repair or replace under this warranty any defective product or part as follows from the original date of purchase.

5 YEARS – Limited warranty on 2-stage oil-free air compressor **pumps** that operate at 1725 RPM and 1 year limited warranty on all other parts.

3 YEARS – Limited warranty on oil-lubricated air compressor **pumps** and 1 year limited warranty on all other parts.

1 YEAR - Limited warranty on all other air compressor products.

90 Day - Service parts

Engine warranties are the responsibility of the engine manufacturer. Warranties of merchandise sold by Porter-Cable which has been manufactured by and identified as the product of another company are the responsibility of the manufacturer of that product.

THIS WARRANTY IS NOT TRANSFERABLE AND DOES NOT COVER

- Products sold damaged or incomplete, sold "as is", sold reconditioned or used as rental equipment.
- Delivery, installation or normal adjustments explained in the owner's manual.
- Damage or liability caused by shipping, improper handling, improper installation, incorrect voltage or improper wiring, improper maintenance, improper modification, or the use of accessories and/or attachments not specifically recommended by PORTER-CABLE for the tool.
- Repairs necessary because of operator abuse or negligence, or the failure to install, operate, maintain and store the product according to the instructions in the owner's manual
- Damage caused by cold, heat, rain, excessive humidity, corrosive environments and materials, or other contaminants.
- Expendable items that become worn during normal use such as drain valves, fuses, filters, belts, air cleaners, spark plugs, engine oil and pump oil.
- Cosmetic defects that do not interfere with tool functionality.
- Freight costs from customer to Porter-Cable.
- Repair and transportation costs of products or parts determined not to be defective.
- ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

WARRANTY SERVICE is available by delivering or shipping the defective product or part to any Porter-Cable authorized warranty service location. To determine the nearest authorized warranty service location, call the toll free number, 1-888-559-8550, 24 hours a day, 7 days a week. Specific instructions regarding servicing arrangements and scheduling may vary depending on the type and size of the product and the availability of repair parts.

- DO NOT return the defective product to the retailer.
- Retain the original cash register sales receipt as proof of purchase for warranty work
- Only Air compressors with 60 and 80 gallon tanks will be inspected at the site of installation.
- The customer should contact Porter-Cable directly if the purchaser does not receive satisfactory results from the authorized warranty service center.

PORTER+CABLE

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