

# **ULTRA QUIET & OIL FREE**

# AIR COMPRESSOR

# **OWNER'S MANUAL**

# CALIFORNIA AIR TOOLS 8010SPC

WWW.CALIFORNIAAIRTOOLS.COM

Customer Support 1-866-409-4581

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# INTRODUCTION

#### WARNING

This manual contains important instructions for operating this product. For your safety, and the safety of others, be sure to read this manual thoroughly before operating the product.

Failure to properly follow all the instructions and precautions can cause you and others to be seriously hurt or killed.

Thank you for purchasing a California Air Tools, Inc. Air Compressor.

Record the model and serial numbers indicated on your air compressor's nameplate:

Model No.

Serial No. \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Store/Dealer:

#### How to find a local service center:

Even quality built equipment might need service or repair parts. Contact the California Air Tools Customer Service Department:

Phone: 1-866-409-4581

Online: WWW.CALIFORNIAAIRTOOLS.COM

#### Please provide the information below:

Model number and Serial number and specifications shown on the Model number/Serial number plate.

Part number or numbers shown in the parts list section of the owner's manual for your air compressor model.

A brief description of the trouble with the air compressor.

Do not return your air compressor for service or parts to the store/dealer where purchased.

## IMPORTANT SAFETY INSTRUCTIONS

Safety Messages & Signal Words:

# **A** DANGER

Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

# AWARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

# ACAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

## NOTICE

Indicates a situation which, if not avoided, may result in damage to product components or other property.

## ADANGER



KICKBACK

Moving parts can cause severe trauma.

Keep hands and feet away from rotating parts, tie up long hair, remove jewelry, and DO NOT wear loose clothing.





SHOCK

There is a danger of electric shock.

Use only undamaged electrical cords.

DO NOT touch bare wires or receptacles.

DO NOT operate air compressor in wet weather or in wet conditions.

DO NOT touch air compressor or cords if hands or feet are wet.

Ensure that all cords are free of damage before connecting to the power supply.

Ensure that you have a sufficient electrical supply for supporting the requirements of the motor.

# AWARNING



#### **RISK TO BREATHING**

Dust or dust-like particulates caused by power-sanding, sawing, grinding, drilling or any other construction-like activities can contain contaminants that are harmful to breathe.

Always use your air compressor in a well-ventilated and clean area.

Never breathe the air that comes directly out of the air compressor or air hose. This air is not suitable for breathing.

Always wear approved safety equipment. When performing dust-creating activities, securely wear properly-fit face masks or respirators.

If you feel ill from breathing while operating your air compressor, stop and seek medical attention immediately.

# 



Air compressor surfaces become hot during operation.

DO NOT touch hot surfaces, because they can cause severe burns.

Do not touch the air compressor's cylinder head. During operation, the cooling fins of the cylinder head and delivery pipe become hot.

Allow the air compressor to cool before touching it.

DO NOT place a storage cover on the unit during operation. Only place a cover on the air compressor after it has thoroughly cooled down.

## AWARNING



#### FLYING OBJECTS

Flying objects can cause injury to the eyes, head and other parts of the body.

Air-powered equipment and power tools are capable of propelling items (metal chips, fasteners and particulates) at high speed into the air and could result in injury.

Always wear approved head and eye protection.

Never point the air stream at any part of your body, or at another person or animal.

When operating the air compressor, make sure all other people and animals maintain a safe distance.

Do not move the air compressor when the air tank is under pressure.

Never use the air hoses to pull or move the air compressor.

Keep the air compressor on a flat surface.

# 



**EXPLOSION** 

Exercise caution when using pressurized air.

To prevent injury and for your general safety, only use high-pressure hoses, fittings and couplings designed for use with air compressors.

Inspect all hoses, fittings and couplings for leaks and wear. When leaks and wear are detected, stop use and replace those items immediately. Do not repair.

Never leave pressurized air in the air tank when performing maintenance.

Never leave the air compressor unattended with the power supply in use and the air hose connected.

# AWARNING



**EXPLOSION** 

Improper care could lead to the air tank bursting or exploding.

Drain air tank daily or after each use to prevent moisture buildup in the air tank.

Rust can weaken the air tank and cause leaks or bursting. If rust is detected, replace tank immediately. Do not try to repair the air tank by welding, drilling or modifying it in any other way. These modifications can weaken the air tank and cause a hazardous condition.

If air tank develops a leak, replace the air tank immediately. Never repair, weld or make modifications to the air tank or its attachments.

Never make adjustments to the factory-set pressures.

Never exceed manufacturer's maximum-allowable pressure rating attachments.

Because of extreme heat, do not use plastic pipe or lead tin solder joints for a discharge line.

## AWARNING





**EXPLOSION** 

FIRE

Use caution to minimize risk of fire or explosion.

It is normal for the air compressor motor and pressure switch to produce sparks while operating. If sparks come in contact with vapors from gasoline or solvents, they may ignite and cause a fire or explosion.

Abrasive tools such as grinders, drills and other tools are capable of making sparks that can ignite flammable materials.

Always operate the air compressor a safe distance away from flammable items. Use in well-ventilated areas.

Never exceed the maximum rated pressure.

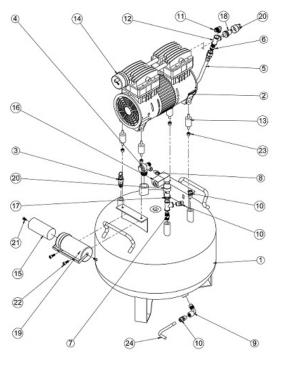
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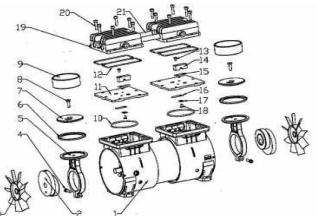
Use caution when using extension cords.

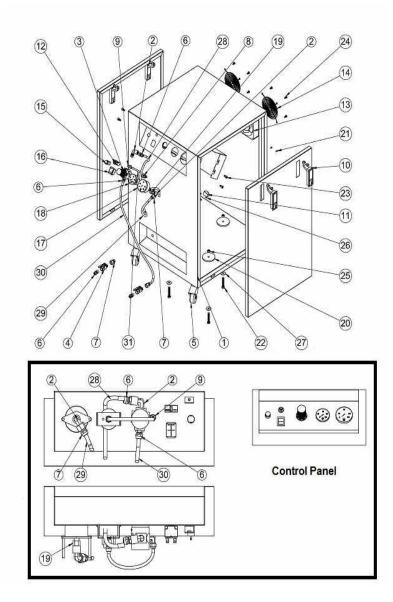
Use an extension cord which is no more than 25 feet long and at least 14 gauge.

Using an excessively long or thin-wired extension cord will cause severe damage to the motor.

Use only a 3-wire extension cord that has a 3-blade grounding plug.







NO.	Description - Motor(MP100LF)	NO.	<b>Description - Air Compressor</b>	NO.		NO.	Description-Cabinet	NO.	Description
1	Crank Case	1	Air Tank - 8.0 Gallons	22	Capacitor Screw	1	Steel Cabinet	22	Panel Screw #22
2	Crank	2	MP100LF - See Motor Parts List	23	Nut	2	Elbow	23	Screw #23
3	Fan	3	Safety Valve	24	Drain Valve Tube	3	Regulator	24	Fan Cover Screw
4	Connecting Screw	4	Check Valve	25		4	Air Hose Ball Valve	25	Support Screw
5	Connecting Rod	5	Air Hose #1	26		5	Wheel	26	Screw #23
6	Piston Ring	6	Air Hose Connector #6	27		6	Air Hose Connector #6	27	Panel Washer #23
7	Pressure Plate	7	Check Valve Connector	28		7	Air Hose Connector #7	28	Air Hose #28
8	Pressure Plate Screw	8	Unloader Connector #8	29		8	Air Hose Connector #8	29	Air Hose #29
9	Cylinder	9	Drain Valve Elbow	30		9	Air Hose Connector #9	30	Air Hose #30
10	Cylinder Obturating Ring	10	Connector	31		10	Cabinet Panel Latch	31	Air Hose #31
11	Valve Plate	11	Air Hose Connector #11	32		11	Power Socket	32	Power Cord
12	Cylinder Head Obturating Ring	12	Air Hose Connector #12	33		12	Overload Protector	33	
13	Valve Plate Screw	13	Shock Strut	34		13	Fan	34	
14	Limited Block	14	Air Filter	35		14	Fan Cover	35	
15	Air Outflow Valve Plate	15	Capacitor	36		15	Power Indicator Light	36	
16	Air Inflow Valve Plate	16	Unloader	37		16	Power Switch	37	
17	Gassing Valve Plate	17	Presssure Switch	38		17	Large Gauge	38	
18	Valve Plate Screw	18	Air Hose Connector #18	39		18	Small Gauge	39	
19	Cylinder Head	19	Capacitor Cover	40		19	Hose Connector #19	40	
20	Cylinder Head Screw	20	Unloader Connector #20	41		20	Rubber Foot Mat	41	
21	Connecting Hose	21	Capacitor Bolt	42		21	Panel Screw #21	42	

## PRE-OPERATION CHECKLIST

## **Package Contents**

#### Model: 8010SPC

#### Package contents:

- \* Air Compressor & Cabinet
- \* Owner's Manual

## **Inspect for Damage**

Before using the air compressor, make sure the air tank is not damaged, inspect all parts for damage, and check that all pipes are firmly connected.

Do not use the air compressor if any damage is found. If damaged, have an authorized service center inspect and test the air compressor to ensure that is working properly.

## Save Packaging

Save all outside packaging in case you ever need to return the product for service or repair.





Use caution to minimize risk of fire or explosion.

**EXPLOSION** 

It is normal for the air compressor motor and pressure switch to produce sparks while operating. If sparks come in contact with vapors from gasoline or solvents, they may ignite and cause a fire or explosion.

Abrasive tools such as grinders, drills and other tools are capable of making sparks that can ignite flammable materials.

Always operate the air compressor a safe distance away from flammable items. Use in well-ventilated areas.

Never exceed the maximum rated pressure.

#### **Compressor Location**

#### Use on Flat Surface

For proper operation, the air compressor must be placed on a flat surface with an incline no greater than 15 degrees

# AWARNING



**RISK TO BREATHING** 

Dust or dust-like particulates caused by power-sanding, sawing, grinding, drilling or any other construction-like activities can contain contaminants that are harmful to breathe.

Always use your air compressor in a well-ventilated and clean area.

Never breathe the air that comes directly out of the air compressor or air hose. This air is not suitable for breathing.

Always wear approved safety equipment. When performing dust-creating activities, securely wear properly-fit face masks or respirators.

If you feel ill from breathing while operating your air compressor, stop and seek medical attention immediately.

#### Maintain a Clear Area

It is very important that the air compressor is positioned so that there is adequate airflow around the machine. There must be at least 2 feet of obstacle-free space surrounding and above the air compressor.

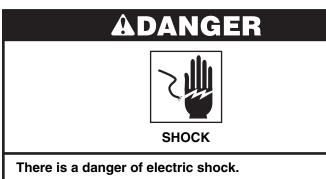
#### Use in Areas with Clean Air

For proper operation and to maximize the longevity of the air compressor, it is very important that the air drawn into the air compressor is clean. The air compressor should not be used in areas where dust or particulates are in the air. This will damage the motor and impair proper operation.

**IMPORTANT:** Always use the air filter, properly installed.

## **Electrical Power**

#### **Electrical Power Requirements**



Use only undamaged electrical cords.

DO NOT touch bare wires or receptacles.

DO NOT operate air compressor in wet weather or in wet conditions.

DO NOT touch air compressor or cords if hands or feet are wet.

Ensure that all cords are free of damage before connecting to the power supply.

Ensure that you have a sufficient electrical supply for supporting the requirements of the motor.

Before using the air compressor, refer to the serial label for voltage and amperage requirements. Make sure you have a sufficient electrical supply for supporting the motor's requirements.

Use a dedicated circuit for the best results.

Low voltage and/or an overload circuit can cause the motor's overload protection system circuit breaker to trip.

#### **Electrical Extension Cords**

ACAUTION

Use caution when using extension cords.

Use an extension cord which is no more than 25 feet long and at least 14 gauge.

Using an excessively long or thin-wired extension cord will cause severe damage to the motor.

Use only a 3-wire extension cord that has a 3-blade grounding plug.

Inspect all electrical extension cords to ensure that they are free of damage.

When using an extension cord, use a heavy-duty cord that is no more than 25 feet long and at least 14 gauge.

Use only a 3-wire extension cord that has a 3-blade grounding plug.

## OPERATING THE AIR COMPRESSOR

#### Save this manual for future reference.

# AWARNING

This manual contains important instructions for operating this product. For your safety, and the safety of others, be sure to read this manual thoroughly before operating the product.

Failure to properly follow all the instructions and precautions can cause you and others to be seriously hurt or killed.

#### Introduction

This air compressor features a compact structure, reliable performance, high airflow rate, easy operation and maintenance

The motor directly drives the eccentric wheel-connecting bar system, making the piston move reciprocally. The piston is made from a high-temperature-resistant and abrasion-resistant nonmetallic material, and is able to function without lubrication for a long time. This is an Oil-Free Pump/Motor.

Compressed air discharges in the air tank. A pressure gauge displays the pressure inside the tank. When the pressure inside the tank rises to 115 PSI, the power is automatically cut off by the pressure-control switch. When the pressure inside the tank lowers to 85-90 PSI, the power is turned back on by the pressure-control switch. This gradually raises the pressure in the air tank. This procedure happens repeatedly.

## Assembly

- **1.** Connect your air supply hose to the 1/4" air hose connection.
- **2.** Make sure the drainage valve is off and that the power switch is in the OFF position.
- **3.** Ensure that the power supply you are going to use is operating normally.
- 4. Insert the power supply cord into the power supply socket.

### Test Run

Before using the air compressor for the first time, complete a test run as follows:

- Turn the power switch to the OFF position. Plug the power supply cord into a power supply socket. Start the air compressor by turning the power switch to the ON position. The pressure gauge reading will slowly rise as pressure increases inside the air tank. When the gauge reading reaches 115 PSI, the pressure switch will automatically turn the power off. This indicates the compressor is working normally.
- **2.** Turn the power switch to the Off position, unplug the power supply cord and release the air from the drain valve.

At this point proceed to the next step (daily operations) starting the air compressor to continue to use.

**Note:** If the Air Compressor is not working properly, the pressure gauge will indicate that there is a decrease in pressure in the air tank. If there is an air leak from the compressor the pressure in the air tank decreases, the pressure switch resets and the motor automatically turns back on.

If you detect an air leakage, turn the power switch to the Off position, release the air from the tank by pulling on the safety valve. Unplug the power supply cord and contact Customer Support for Assistance.



DO NOT touch hot surfaces, because they can cause severe burns.

Do not touch the air compressor's cylinder head. During operation, the cooling fins of the cylinder head and delivery pipe become hot.

Allow the air compressor to cool before touching it.

DO NOT place a storage cover on the unit during operation. Only place a cover on the air compressor after it has thoroughly cooled down.

## AWARNING



#### FLYING OBJECTS

Flying objects can cause injury to the eyes, head and other parts of the body.

Air-powered equipment and power tools are capable of propelling items (metal chips, fasteners and particulates) at high speed into the air and could result in injury.

Always wear approved head and eye protection.

Never point the air stream at any part of your body, or at another person or animal.

When operating the air compressor, make sure all other people and animals maintain a safe distance.

Do not move the air compressor when the air tank is under pressure.

Never use the air hoses to pull or move the air compressor.

Keep the air compressor on a flat surface.

#### **Daily Operation**

#### Starting the compressor:

- **1.** Turn the power switch to the OFF position.
- 2. Attach the air hose to the 1/4" air hose connection.
- 3. Close the drain valve.
- 4. Plug the power supply cord into a power supply socket.
- 5. Turn the power switch to the ON position.
- 6. Let the motor run and tank fill until motor turns off.
- 7. Operate air tool normally.
- 8. To regulate the air to the air hose, have the air compressor and air tool both turned on and running. Turn the Regulator Knob to the right to increase pressure and turn left to decrease the pressure to the hose and air tool.
- **9.** Only operate continously for 1 hour maximum. Allow compressor to cool down before restarting.

#### Shutting down the compressor:

- **1.** Turn the power switch to the OFF position.
- **2.** Unplug the power supply cord.
- **3.** Reduce the pressure in the air tank through the air supply hose.

# MAINTENANCE

#### **Draining the Air Tank**

The frequency at which you should drain the air tank depends on the environmental conditions and the amount of operating time logged. The average draining frequency is every 2 to 3 days.

- 1. Provide a container capable of holding water.
- 2. Without compressed air in the air tank, slowly turn the drain valve knob. The water in the air tank will drain out.
- 3. After all of the accumulated water has drained out, turn the drain valve knob until it is tight, in order to avoid leakage.
- 4. Remove waste container and empty.

## **Changing the Air Filter**

The air filter is designed to reduce noise and help prevent particulates in the air from entering and damaging the air compressor.

After being used for a period of time, the air filter will become clogged. This will reduce the air intake capabilities of the air compressor, reducing performance. Therefore, the air filter must be replaced regularly.

- 1. Open the lid on the air filter, then remove the old filter.
- 2. Replace it with a new filter, then close the lid.

#### **Testing for Leaks**

Make sure all connections are tight. Do not overtighten.

A small leak in any hose or pipe connection will reduce the air compressor's performance.

To test for small leaks, spray a small amount of soapy water on the area suspected of leaking. If the soap bubbles, replace the broken part.

## Cleaning

Clean items with a soft brush, or wipe with a moistened cloth using a biodegradable solvent.

Do not use flammable liquids such as gasoline or alcohol. Always keep parts clean from dirt and dust for better performance.

# STORAGE

Before storing for a prolonged period of time:

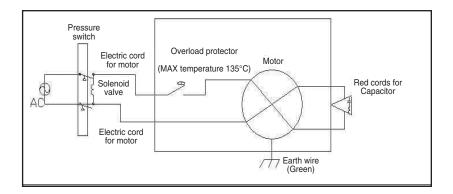
- 1. Turn off the power supply.
- 2. Disconnect the power cord from the power supply.
- 3. Release all the pressure from the air tank.
- 4. Clean the air compressor to remove all dirt and dust.
- **5.** Cover the air compressor with a cover to protect the unit from dust and moisture.
- 6. Do not stack or store any items on top of or around the air compressor. Damage could occur.

# TROUBLESHOOTING

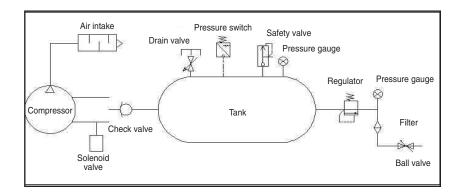
PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTIONS			
Pressure drop in the tank.	Air leaks at connections.	Let the compressor build pressure in the tank, to the maximum pressure if possible. Brush soapy water on air connections and look carefully for air bubbles. Tighten leaky connections. If the problem persists, contact the seller for further advice.			
The solenoid valve leaks when the compressor is idle.	Non-return valve seal is defective.	Let the air in the tank flow out until all the pressure is released. Then remove the non-return valve plug and clean the valve seal. If necessary, replace the seal and then reinstall all components.			
The compressor stopped and does not start.	Overload cutout operated because of motor overheating.	Check that the main voltage corresponds to specifications. An extension cord that is too thin or too long can cause a voltage drop and cause the motor to overheat. Allow the motor to cool down. Press the reset button to restart. Ensure that the compressor is plugged into a socket as close as possible to the consumer unit or fuse box.			
	Motor windings are burned out.	Contact Customer Support.			
The motor does not start and makes a humming noise.	Capacitor is burned out.	Replace starter capacitor.			
The motor does not start or starts slowly.	Low voltage supply to the motor.	Check that the main voltage corresponds to specifications. An extension cord that is too thin or too long can cause a voltage drop and cause the motor to overheat. Allow the motor to cool down. Press the reset button to restart. Ensure that the compressor is plugged into a socket as close as possible to the consumer unit or fuse box.			
The compressor is noisy with metallic clangs.	Compressor head gasket broken or valve faulty.	Stop the compressor and contact the dealer.			
The compressor does not reach the maximum pressure.	Compressor head gasket broken or valve faulty.	Stop the compressor and contact the dealer.			
The compressor doesn't seem to provide as much air as it did	The pressure switch needs adjusting.	Stop the compressor and contact the dealer.			
when new and/or the compressor cuts off within a much shorter time period.	The tank is full of water due to condensation.	Open the ball valve and release the pressure. Open the drain valve and release the water within the tank.			
The motor pump unit does not stop when the tank pressure reaches its maximum working pressure (8 bar or 116 PSI) and the safety valve vents air.	Pressure switch defective or needs adjusting.	Stop the compressor immediately and contact Customer Support.			

# SPECIFICATIONS

#### **Electrical Circuit**



#### Air Passage Drawing



# CALIFORNIA AIR TOOLS INC. LIMITED WARRANTY

This warranty is limited to Air Compressors distributed by:

California Air Tools, Inc. 8560 Siempre Viva Road, Unit 3 San Diego, CA 92154

#### **Limited Warranty**

California Air Tools Inc. will repair or replace, free of charge, to the original retail customer who purchased a California Air Tools, Inc. Air Compressor from an authorized dealer, distributor or distributor's dealer in North America.

This warranty does not transfer to subsequent owners.

California Air Tools Inc. will repair or replace, at its option, any parts of the portable air compressor that are proven by an authorized service center to be defective in material or workmanship under normal use during the applicable warranty time period as stated below. This limited warranty covers the cost of the replacement parts and labor for all defects when installed by an authorized service center. Transportation charges are the responsibility of the customer. Any part replaced under warranty becomes the property of California Air Tools Inc.

All parts replaced under warranty will be considered as part of original product, and any warranty on those parts will expire coincident with the original product warranty.

#### **Limited Warranty Periods**

Non-commercial / Non-rental (personal use by a retail customer): Commercial / Rental (usage for income, business use): 18 months parts and labor 18 months parts and labor

The limited warranty period begins on the date of retail purchase by the original purchaser.

#### **Disclaimers, Limitations of Remedies & Exclusions**

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

#### **Disclaimer of Other Warranties**

To the fullest extent permitted by applicable law, this limited warranty is exclusive and expressly in lieu of any and all other warranties, including, without limitation, any implied warranties of merchantability or fitness for a particular purpose or any other implied warranties that may arise from the course of dealing or usage of the trade. California Air Tools Inc. hereby declaims and excludes all other warranties. To the extent that California Air Tools Inc. products are consumer products under applicable federal and state law with respect to any customer, the duration of any implied warranties (including but not limited to implied warranties of merchantability or fitness for a particular purpose) are limited to the shortest duration permitted by applicable law or the Limited Warranty period provided herein, whichever is longer.

#### **Limitations of Remedies**

California Air Tools Inc. shall not be liable to customer, or anyone claiming under customer, for any other obligations or liabilities, including but not limited to, obligations or liabilities airing out of breach of contract or warranty, negligence or other tort or any theory of strict liability, with respect to the air compressor or California Air Tools Inc. acts or omissions or otherwise. To the fullest extent permitted by applicable law, California Air Tools Inc. shall not in any event be liable for incidental, compensatory, punitive, consequential, indirect, special or other damages, including but not limited to loss of use, loss of income, loss of time, loss of sales, injury to personal property, or liability customer incurs with respect to any other person, or any other type or form of consequential damage or economic loss.

#### Exclusions

In addition to the foregoing disclaimers, limitations and terms, this limited warranty shall not apply to and does not cover accessories, nor does it cover products that are in any way subject to any of the following:

- 1. Improper setup, installation or storage.
- 2. Lack of proper maintenance and service.
- 3. Accident, damage, abuse or misuse.
- 4. Abnormal operating conditions or applications.
- 5. Repair or modification by customer or any third party without written consent of California Air Tools Inc.
- 6. Use under operating conditions or in applications not recommended by California Air Tools Inc.
- 7. Normal wear.
- 8. The use of accessories or attachments not recommended by California Air Tools Inc.
- 9. Acts of God.

The application of these exclusions will be determined at the sole discretion of California Air Tools Inc.

## Registration

Warranty registration with California Air Tools Inc. is required on all products.

You can mail the enclosed registration form.

Warranty is also available by keeping and showing your original receipt from the date of purchase to an Authorized California Air Tools Service Center.

#### Service

Do not return your air compressor to the place of purchase.

For all customer service inquiries call California Air Tools Customer Service at 1-866-409-4581 or visit

WWW.CALIFORNIAAIRTOOLS.COM

# PRODUCT REGISTRATION

To register your product, please complete the information below and mail to the mailing address at the end of this page.

#### 1. Personal Information:

	Full Name (Include Middle Initial):							
	Mailing Address:							
	City:		St	ate:	Zip C	Code:		
	Phone Number:							
	E-mail Address:							
	(Check here to rece	eive product informa	tion and offe	ers via e-mail	)			
	(Check here to rece	eive product informa	tion from oth	ner companie	s via e-mail)			
2. Pro	duct Information:							
	Date of Purchase:						(MM / DD / YYYY)	
	Model Number:							
	Serial Number:						_ (Found on name plate)	
	Purchased Location	וייייייייייייייייייייייייייייייייייייי	· · · · · · · · · · · · · · · · · · ·					
	Purchase Price:							
		e for this Product:			• •		Commercial	
		g Product Purchase scribe)			Power Ratin	•	2	
	Thank you for regis	stering your product.						
	Mail to: California Air Tools 8560 Siempre Viva San Diego, CA 921							