

ULTRA QUIET & OIL FREE

AIR COMPRESSOR MOTOR/PUMP

OWNER'S MANUAL

SP-9414

TAbLe OF CONTENTS

Introduction	2
ImPortant Safety InStructionS	3
LocationS of ImPortant LabeLS	6
alr comPreSSor comPonentS	8
Pr e-o Per at Ion check LISt	9
Package contents & a ssembly	9
Inspect for damage	10
Save Packaging	10
c ompressor Location	
electrical Power	11
o Per at Ing the air comPreSSor	11
Introduction	11
maint enance	12
c hanging the a ir f ilter	12
c leaning	12
troubLeShootIng	13
SPec If Icat IonS	14
electrical circuit	14
a ir Passage drawing	14
Warranty	15
Product regiStration	16

INTROduCTION

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.

t hank you for purchasing a california air tools, Inc. air compressor motor

r ecord the model and serial numbers indicated on your air compressor motor's nameplate:

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 INSTRu CTIONS

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.

ADANGER



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.

AWARNING





HOT SURFACE

FIRE

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.

AWARNING



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.

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.

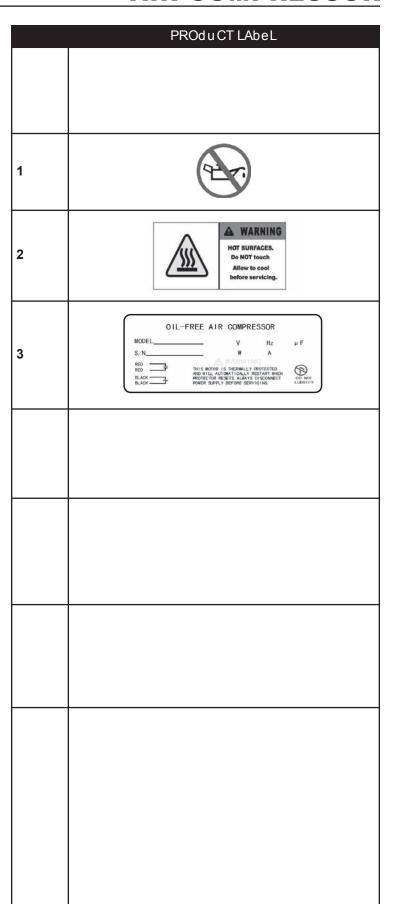
Use only a 3-wire extension cord that has a 3-blade grounding plug.

LOCATIONS OF IMPORTANT LAbeLS

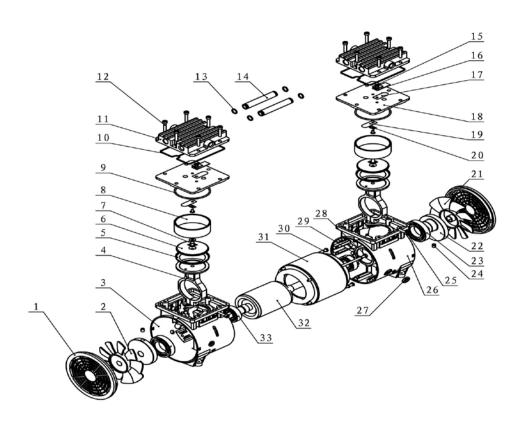
Read these important labels before operating.

These labels provide important safety and maintenance information. These labels should be considered as permanent parts of the air compressor. Should any of these labels become illegible, damaged or removed, please contact California Air Tools Customer Service department at 1-866-409-4581 for replacements.





model: SP-9415



NO.	Description	NO.	Description	NO.	Description	NO.	Description
1	Fan Cover	21	Right Fan	41		61	
2	Left Fan	22	Crank	42		62	
3	Left Crank Case	23	Bearing	43		63	
4	Connecting Rod	24	Holding Screw	44		64	
5	Piston Ring	25	Cheese Head Screw	45		65	
6	Pressure Plate	26	Right Crank Case	46		66	
7	Pressure Plate Screw	27	Leading-out Line Guard Circle	47		67	
8	Cylinder	28	Motor Screw	48		68	
9	Cylinder Obturating Ring	29	Spring Washer	49		69	
10	Cylinder Head Obturating Ring	30	Screw	50		70	
11	Cylinder Head	31	Stator	51		71	
12	Cylinder Head Screw	32	Rotor	52		72	
13	Connecting Hose Obturating	33	Bearing	53		73	
14	Connecting Hose	34	Capacitor (Not Pictured)	54		74	
15	Pan Head Screw	35	Shock Strut (Not Pictured)	55		75	
16	Plastic Gasket	36		56		76	
17	Gassing Valve Plate	37		57		77	
18	Valve Plate	38		58		78	
19	Air Inflow Valve Plate	39		59		79	
20	Metal Stenghten Sheet	40		60		80	

PRe-OPeRATION CheCkLIST

Package contents & assembly

model: SP-9414

Package contents:

Air Compressor Pump/Motor

Owner's Manual

Air Filter

Capacitor

Shock Struts (4)

assembly - air filter:

Attach the air filter to the top right side of motor head.

Screw air filter into the motor head.(not too tight)

attach - air hose

Attach the air hose to the top left side of motor head

a ssembly - Power:

- Attach the (2) Red Wires from the Motor to the
 (2) White Wires on the Capacitor.
- Attach the Green/yellow wire and the (2) black Wires to a Power Cord or Plug for Power Supply

Inspect for damage

before using the air compressor motor inspect all parts for damage.

do not use the air compressor motor if any damage is found.

If damaged, have an authorized service center inspect and test the air compressor motor to ensure that is working properly.

maintain a clear a rea

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.

Save Packaging

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

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





EXPLOSION

FIRE

Use caution to minimize risk of fire or explosion.

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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.

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.

use in a reas 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 r equirements

ADANGER



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.

before using the air compressor motor, 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.

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

OPeRATING The AIR COMPRESSOR

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.

Save this manual for future reference.

Introduction

This air compressor pump/motor features a compact structure, stable performance, a high airflow rate, and easy operation and maintenance. because the air compressor produces no oil in the airflow, it can be used as an independent air supply machine for situations in which oil in the airflow is an issue.

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.

MAINTe NANCe

c hanging 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.

c leaning

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.

AWARNING





HOT SURFACE

FIRE

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.

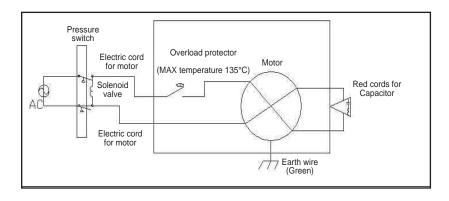
TROubLeSh OOTING

Pr obLem	PoSSIbLe cauSe	PoSSIbLe SoLutionS
The compressor stopped and does not start.	Overloaded 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. u se heavy duty extension cords. e nsure 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. u se heavy duty extension cords. e nsure 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 plate faulty.	Stop the compressor and contact the dealer.
	Compressor worn or broken piston ring	Stop the compressor and contact the dealer.
	Compressor worn or broken cylinder ring	Stop the compressor and contact the dealer.

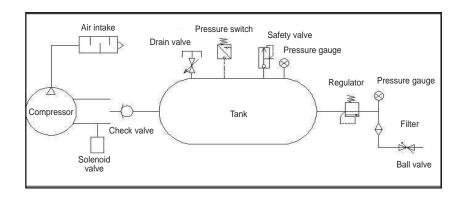
Customer Support: 1-866-409-4581

SPeCIFICATIONS

electrical circuit



a ir 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, u nit 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

1 year parts and labor

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

disclaimers, Limitations of r emedies & 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 r emedies

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. u se 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.

r egistration

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

1. Personal Information:

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

	Full Name (Include Middle Initial):								
	Mailing Address:								
	City:S								
	Phone Number:								
	e-mail Address:								
	(Check here to receive product information and offers via e-mail) (Check here to receive product information from other companies via e-mail)								
2. Proc	duct Information:								
	d ate of Purchase:			(MM / dd / yyyy)					
	Model Number:								
	Serial Number:			(Found on name plate)					
	Purchased Location:								
	Purchase Price:								
	Type of Primary use for this Product: home Other	_	•	Commercial					
	Features Influencing Product Purchase: brand Other Features (describe)	•	Rating Price	Warranty					
	What other Power equipment are you interested in purchasing in the future?								
	Thank you for registering your product.		,						
	Mail to: California Air Tools 8560 Siempre Viva Road, u nit 3 San d iego, CA 92154								