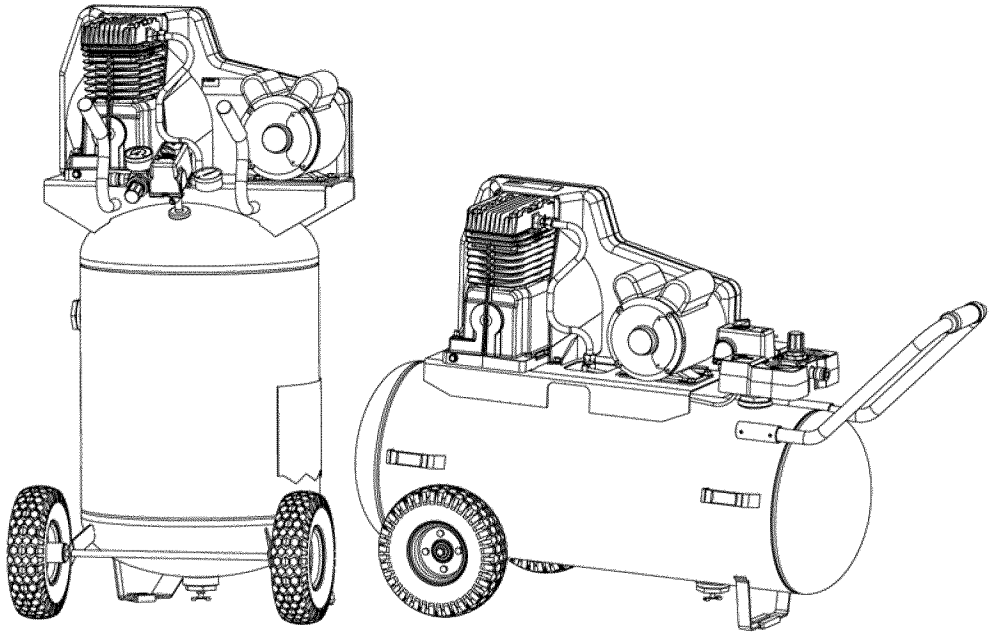
Owner's Manual

CRAFTSMAN®

AIR COMPRESSOR

Belt Drive, Electric
25 and 27 Gallon

Model No. 921.16475
Model No. 921.16474



CAUTION:
Before using this product, read this manual and follow all its Safety Rules and Operating Instructions.

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.
www.craftsman.com

3/16/2010
Part No. 200-2792

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WARRANTY

CRAFTSMAN ONE YEAR FULL WARRANTY

FOR ONE YEAR from the date of purchase, this product is warranted against any defects in material or workmanship. Defective product will receive free repair or free replacement if repair is unavailable.

For warranty coverage details to obtain repair or replacement, visit the web site: www.craftsman.com

This warranty does not cover the air filter or drive belt, which are expendable parts that can wear out from normal use within the warranty period.

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

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

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.

SPECIFICATION CHART

MODEL NO.	RUNNING H.P.	TANK CAPACITY GALLONS	VOLTAGE/ AMPS/PHASE	KICK-IN PRESSURE	KICK-OUT PRESSURE
921.16474 (WLB1982713)	1.9	Vert. 27 (102)	115/15/1	120 (8,27 bar)	150 (10,34 bar)
921.16475 (WPB1982513)	1.9	Horiz. 25 (94,6)	115/15/1	120 (8,27 bar)	150 (10,34bar)

SAFETY GUIDELINES

The following information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please read the manual and pay attention to these sections.

⚠ DANGER: – A POTENTIAL HAZARD THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE.

⚠ WARNING: – A POTENTIAL HAZARD THAT COULD CAUSE SERIOUS INJURY OR LOSS OF LIFE.

⚠ CAUTION: – A POTENTIAL HAZARD THAT MAY CAUSE MODERATE INJURY OR DAMAGE TO EQUIPMENT.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING:

RISK OF FIRE OR EXPLOSION. 	Never spray flammable liquids in a confined area. It is normal for the motor and pressure switch to produce sparks while operating. If sparks come into contact with vapors from gasoline or other solvents, they may ignite, causing fire or explosion. Always operate the compressor in a well–ventilated area. Do not smoke while spraying. Do not spray where sparks or flame are present. Keep compressor as far from spray area as possible.
RISK OF BURSTING. 	Do not weld, drill or modify the air tank of this compressor. Welding or modifications on the air compressor tank can severely impair tank strength and cause an extremely hazardous condition. Welding or modifying the tank in any manner will void the warranty.
RISK OF ELECTRICAL SHOCK. 	Never use an electric air compressor outdoors when it is raining or on a wet surface, as it may cause an electric shock.
RISK OF INJURY. 	This unit starts automatically. ALWAYS shut off the compressor, remove the plug from the outlet, and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds or belt guard removed. Serious injury could occur from contact with moving parts.
RISK OF BURSTING. 	Check the manufacturer's maximum pressure rating for air tools and accessories. Compressor outlet pressure must be regulated so as to never exceed the maximum pressure rating of the tool. Relieve all pressure through the hose before attaching or removing accessories.
RISK OF BURNS. 	High temperatures are generated by the pump and manifold. To prevent burns or other injuries, DO NOT touch the pump, manifold or transfer tube while the pump is running. Allow them to cool before handling or servicing. Keep children away from the compressor at all times.
RISK TO BREATHING. 	Be certain to read all labels when you are spraying paints or toxic materials, and follow the safety instructions. Use a respirator mask if there is a chance of inhaling anything you are spraying. Read all instructions and be sure that your respirator mask will protect you. Never directly inhale the compressed air produced by a compressor. It is not suitable for breathing purposes.
RISK OF EYE INJURY. 	Always wear ANSI Z87.1 approved safety goggles when using an air compressor. Never point any nozzle or sprayer toward a person or any part of the body. Equipment can cause serious injury if the spray penetrates the skin.
RISK OF BURSTING. 	Do not adjust the relief valve for any reason. Doing so voids all warranties. The relief valve has been pre-set at the factory for the maximum pressure of this unit. Personal injury and /or property damage may result if the relief valve is tampered with.
RISK OF BURSTING. 	Do not use plastic or pvc pipe for compressed air. Use only galvanized steel pipe and fittings for compressed air distribution lines.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING:

RISK TO HEARING. 	Always wear hearing protection when using an air compressor. Failure to do so may result in hearing loss.
	The power cord on this product contains lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. ***Wash hands after handling.***
NOTE: ELECTRICAL WIRING.	Refer to the air compressor's serial label for the unit's voltage and amperage requirements. Ensure that all wiring is done by a licensed electrician, in accordance with the National Electrical code.

⚠ CAUTION:

Drain the moisture from the tank on a daily basis. A clean, dry tank will help prevent corrosion.
Pull the pressure relief valve ring daily to ensure that the valve is functioning properly, and to clear the valve of any possible obstructions.
To provide proper ventilation for cooling, the compressor must be kept a minimum of 12 inches (31 cm) from the nearest wall, in a well–ventilated area.
Fasten the compressor down securely if transporting is necessary. Pressure must be released from the tank before transporting.
Protect the air hose and electric cord from damage and puncture. Inspect them weekly for weak or worn spots, and replace if necessary.
To reduce the risk of electric shock, do not expose to rain. Store indoors.
Never operate the compressor if the power cord or plug are damaged. Have the unit serviced at a Sears or other qualified service center.

GLOSSARY OF TERMS

CFM
Cubic feet per minute; a unit of measure of air flow.

PSI
Pounds per square inch; a unit of measure of air pressure.

Kick-in pressure
Factory set low pressure point that starts the compressor to repressurize the tank to a higher pressure.

Kick-out pressure
Factory set high pressure point that stops the compressor from increasing the pressure in the tank above a certain level.

Well-ventilated
A means of providing fresh air in exchange for dangerous exhaust or vapors.

Dedicated circuit
An electrical circuit reserved for the exclusive use of the air compressor.

OVERVIEW

BASIC AIR COMPRESSOR COMPONENTS

The basic components of the air compressor are the electric motor, pump, pressure switch and tank (see ***Fig. 1***).

The **electric motor** (see **A**) powers the pump. The electric motor is equipped with an **overload protector** to help prevent possible motor burnout. If the motor becomes overheated, the overload protector will shut it down. Should this occur, allow the motor to cool for 10-15 minutes, then press (never force) the motor reset switch to restart the motor.

The **pump** (see **B**) compresses the air and discharges it into the tank.

The **tank** (see **C**) stores the compressed air.

The **pressure switch** (see **D**) shuts down the motor and relieves air pressure in the pump and transfer tube when the air pressure in the tank reaches the kick–out pressure. As compressed air is used and the pressure level in the tank drops to the kick–in pressure, the pressure switch restarts the motor automatically, without warning and the pump resumes compressing air.

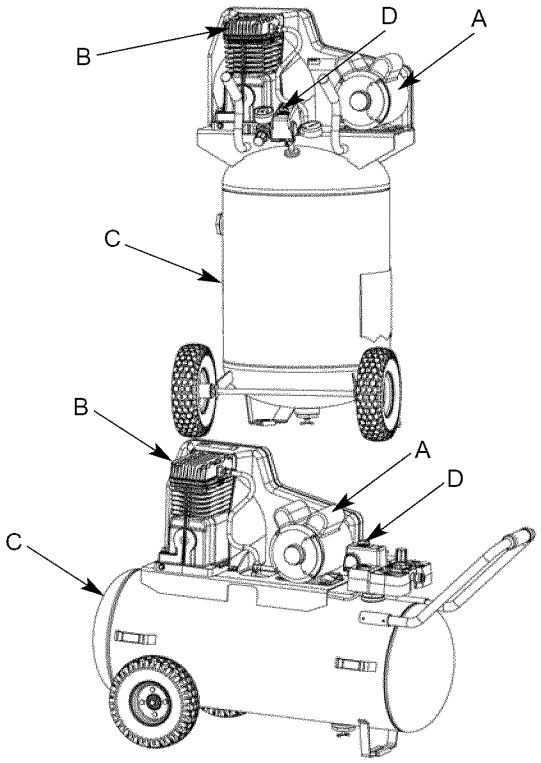


Fig. 1

ASSEMBLY

ASSEMBLING THE COMPRESSOR

STOP **This compressor was shipped with oil in the pump crankcase. Check oil before operating the air compressor, see Check Oil under Maintenance.**

1. Unpack the air compressor. Inspect the unit for damage. If the unit has been damaged in transit, contact the carrier and complete a damage claim. Do this immediately because there are time limitations to damage claims.

   The carton should contain:
   - air compressor
   - operator/parts manual
   - handle (horizontal tank)

2. Check the compressor's serial label to ensure that you have received the model ordered, and that it has the required pressure rating for its intended use.

3. Install the handle by loosening the set screws (**F**) and then placing the handle ends (**E**) into the handle brackets (**G**) and secure with the set screws (**F**) (see Fig. 2). Tighten screws using a size 3mm hex wrench (not included).

4. Locate the compressor according to the following guidelines:

   a. Position the compressor near a grounded electrical outlet (see GROUNDING INSTRUCTIONS). **Avoid using an extension cord**; use a longer air hose instead.
   b. The flywheel side of the compressor must be at least 12 inches (31 cm) from any wall or obstruction, in a clean, well-ventilated area, to ensure sufficient air flow and cooling.
   c. In cold climates, store portable compressors in a heated building when not in use. This will reduce problems with lubrication, motor starting and freezing of water condensation.
   d. The compressor must be level to ensure proper lubrication of the pump and good drainage of the moisture in the tank.

5. Connect an air hose (not included) to the manifold outlet.

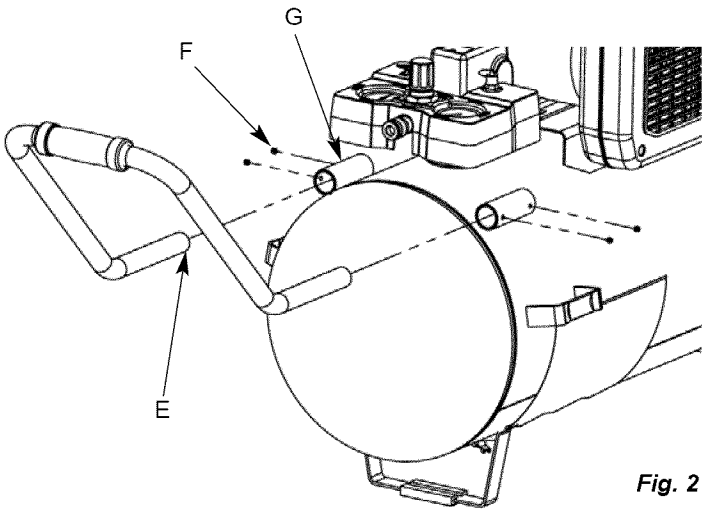


Fig. 2

COMPRESSOR CONTROLS

Pressure Switch (see **A**)

This switch turns on the compressor. It is operated manually, but when in the ON position, it allows the compressor to start up or shut down automatically, without warning, upon air demand. ALWAYS set this switch to OFF when the compressor is not being used, and before unplugging the compressor.

Pressure Relief Valve (see **B**)

If the pressure switch does *not* shut down the motor when pressure reaches the preset level, this valve will pop open automatically to prevent over pressurization. To operate manually, pull the ring on the valve to relieve air pressure in the tank.

Tank Pressure Gauge (see **C**)

This gauge measures the pressure level of the air stored in the tank. It is not adjustable by the operator, and does *not* indicate line pressure.

Air Pressure Regulator (see **D**)

This air pressure regulator enables you to adjust line pressure to the tool you are using.

⚠ WARNING: Never exceed the maximum working pressure of the tool.

Turn the knob clockwise to increase pressure, and counterclockwise to decrease pressure.

Regulated Pressure Gauge (see **E**)

This gauge measures the regulated line pressure.

Quick Connect (see **F**)

A quick release for attaching and removing the air hose.

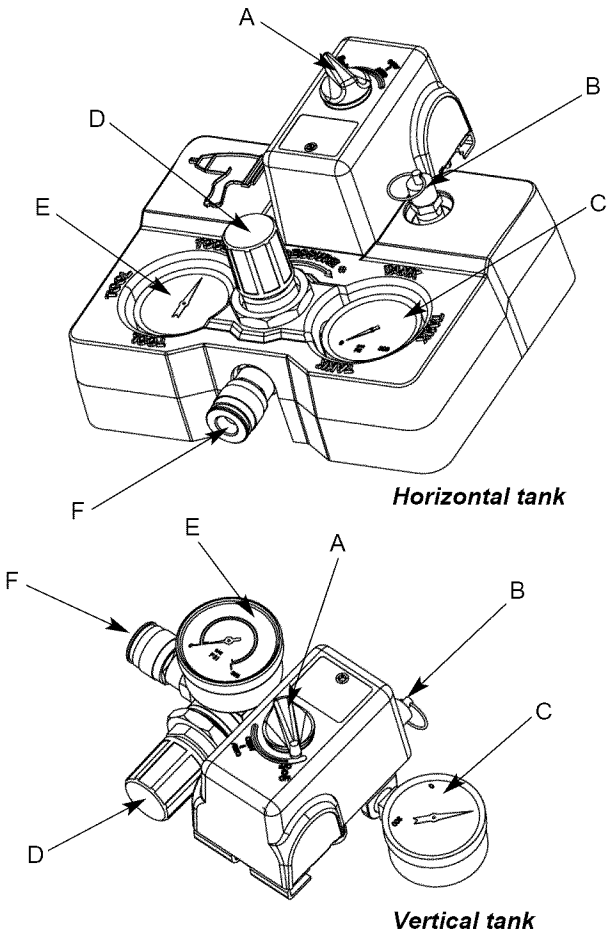


Fig. 3

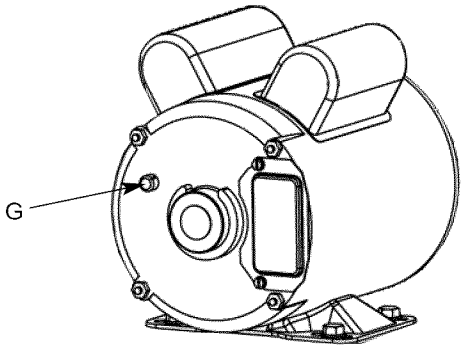
MOTOR RESET AND WIRING

MOTOR RESET SWITCH

Fig. 4

⚠ WARNING: Ensure that all guards and shrouds are in place before pressing the reset switch to restart the motor.

If the motor shuts down because of overload, wait 10–15 minutes so the motor can cool down, then press (*NEVER force*) the reset switch (see **G**) to restart the motor (see ***Fig. 4***).



NOTE: Some models are equipped with a dual voltage motor 115/230 volt. Most models are factory wired for 115 volt operation. If conversion from 115 volt to 230 volt is required, refer to the motor nameplate and have the conversion performed by a Licensed Electrician.

ELECTRICAL POWER REQUIREMENTS

ELECTRICAL WIRING

Refer to the air compressor's serial label for the unit's voltage and amperage requirements.

Use a dedicated circuit

For best performance and reliable starting, the air compressor must be plugged into a dedicated circuit, as close as possible to the fuse box or circuit breaker. The compressor will use the full capacity of a typical 15 amp household circuit. If any other electrical devices are drawing from the compressor's circuit, the compressor may fail to start. Low voltage or an overloaded circuit can result in sluggish starting that causes the motor overload protection system or circuit breaker to trip, especially in cold conditions.

NOTE: To handle the initial electrical load of starting the air compressor, a circuit breaker is recommended. If the air compressor is connected to a circuit protected by a fuse, use dual element time delay fuses (Buss Fusetron type "T" only).

EXTENSION CORDS

NOTE: Avoid use of extension cords.

For optimum performance, plug the compressor power cord directly into a grounded wall socket. Do not use an extension cord unless absolutely necessary. Instead, use a longer air hose to reach the area where the air is needed.

If use of an extension cord cannot be avoided, the cord should be no longer than 50 feet and be a minimum wire size of 12 gauge (AWG). Do not use a 16 or 14 gauge extension cord.

Use only 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. Make sure your extension cord is in good condition. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. The smaller the gauge number, the heavier the cord.

GROUNDING INSTRUCTIONS

FOR CORD-CONNECTED MODELS:

This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current.

This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinance.

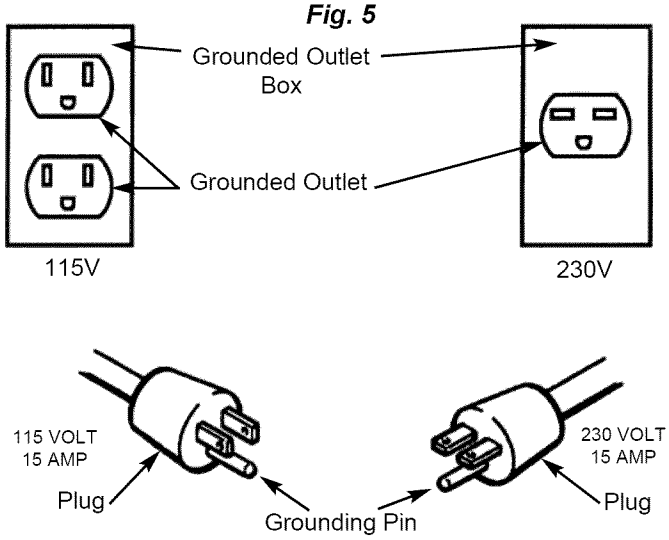
⚠ DANGER: Improper installation of the grounding plug can result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal of the plug. The wire ` insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

This product is for use on a 115 or 230 volt circuit. A cord with a grounding plug, as shown here, shall be used.

Make sure that the product is connected to an outlet having the same configuration as the plug (see ***Fig. 5***). No adapter should be used with this product.

Check with a licensed electrician if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify the plug provided; if it will not fit the outlet, have the proper outlet installed by a licensed electrician.

Fig. 5



OPERATING INSTRUCTIONS

BREAK-IN OF THE PUMP

1. Check the oil level in the pump (see "Checking the Oil" in the maintenance section).
2. Turn the pressure switch to the OFF position (see **C**).
3. Open the petcock (see **F**). Turn in the counterclockwise direction.

⚠ CAUTION: Escaping air and moisture can propel debris that may cause eye injury. Wear safety goggles when opening petcock.

4. Plug in the power cord.
5. Turn the pressure switch to the ON position (see **D**). The compressor will start. Allow the compressor to run for 30 minutes, to break in the internal parts.

NOTE: After about 30 minutes, if the unit does not operate properly, SHUT DOWN IMMEDIATELY, and contact a Sears or other qualified service center.

6. After about 30 minutes, turn the pressure switch to the OFF position.
7. Close the petcock (see **E**). Turn in the clockwise direction.
8. Turn the pressure switch to the ON position. The compressor will start and fill the tank to the kick-out pressure and stop.

NOTE: As compressed air is used, the pressure switch will restart the motor automatically to supply more compressed air to the tank.

DAILY START-UP

1. Check the oil level in the pump (see "Checking the Oil" in the maintenance section).
2. Turn the pressure switch to the OFF position (see **C**).
3. Close the tank petcock (see **E**). Turn in the clockwise direction.
4. Plug in the power cord.

⚠ WARNING: High temperatures are generated by the electric motor and the pump. To prevent burns or other injuries, DO NOT touch the compressor while it is running. Allow it to cool before handling or servicing. Keep children away from the compressor at all times.

5. Turn the pressure switch to the ON position (see **D**).
6. Adjust the regulator to the working pressure of the tool.

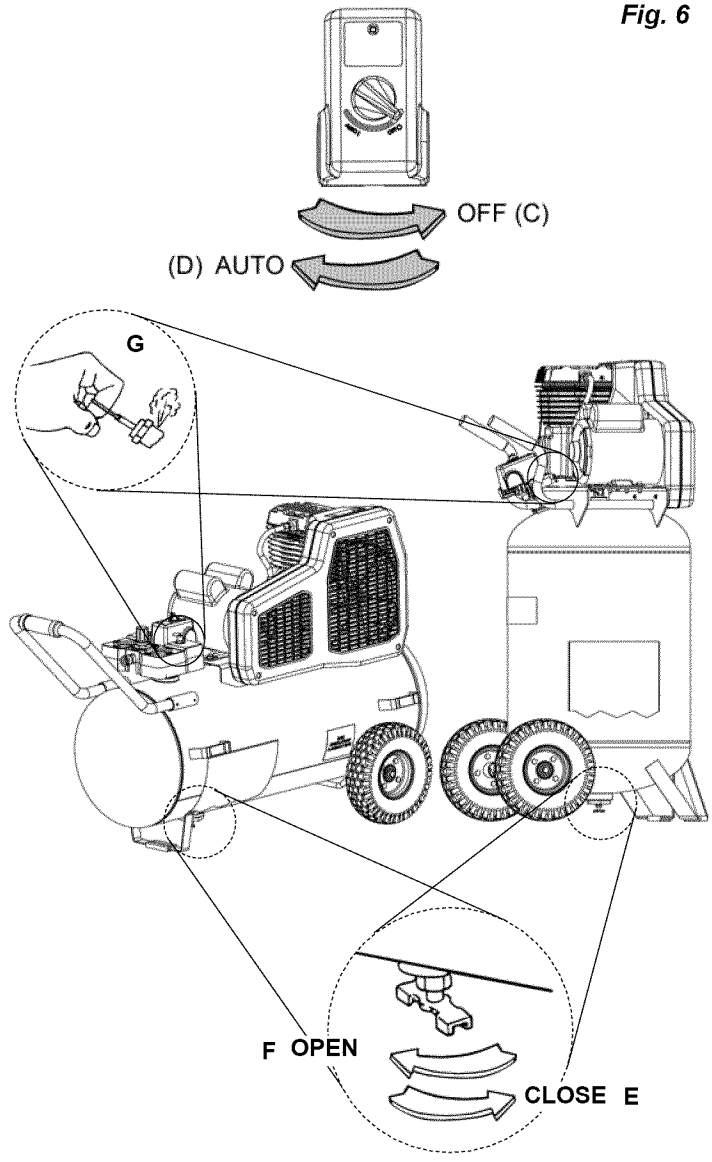
⚠ WARNING: When adjusting from a higher to a lower pressure, turn the knob counterclockwise past the desired setting, then turn clockwise to reach the desired pressure. Do not exceed operating pressure of the tool or accessory being used.

SHUTDOWN

1. Turn the pressure switch to the OFF position (see **C**).
2. Unplug the power cord.
3. Reduce pressure in the tank through the outlet hose. You can also pull the relief valve ring (see **G**) and keep it open to relieve pressure in the tank.
4. Open the petcock (see **F**) to allow moisture to drain from the tank.

⚠ CAUTION: Escaping air and moisture can propel debris that may cause eye injury. Wear safety goggles when opening petcock.

Fig. 6



MAINTENANCE

WARNING: To avoid personal injury, always shut off and unplug the compressor and relieve all air pressure from the system before performing any service on the air compressor.

Regular maintenance will ensure trouble–free operation. Your electric powered air compressor represents high–quality engineering and construction; however, even high–quality machinery requires periodic maintenance. The items listed below should be inspected on a regular basis

DRAINING THE TANK

WARNING: Condensation will accumulate in the tank. To prevent corrosion of the tank from the inside, this moisture must be drained at the end of every workday. Be sure to wear protective eyewear. Relieve the air pressure in the system and open the petcock on the bottom of the tank to drain.

CHECKING THE OIL

To check the oil level in the pump, unscrew the dipstick and wipe off oil. Screw the dipstick all the way in and then unscrew. The pump oil level should be between between add (see **C**) and full (see **B**). Replace the dipstick. Do not overfill or underfill.

NOTE: Use synthetic, non-detergent air compressor oil.

CHANGING THE OIL

Remove the oil plug (see **A**) and drain the oil until it slows to a drip, then close. Add compressor oil (approx. 18 oz.) until it is between full (see **B**) and add (see **C**) when the dipstick (see **D**) is screwed completely into the hole. Never overfill or underfill the pump.

NOTE: The compressor is pre-filled with synthetic oil. Use synthetic, non-detergent air compressor oil.

B = Full
C = Add

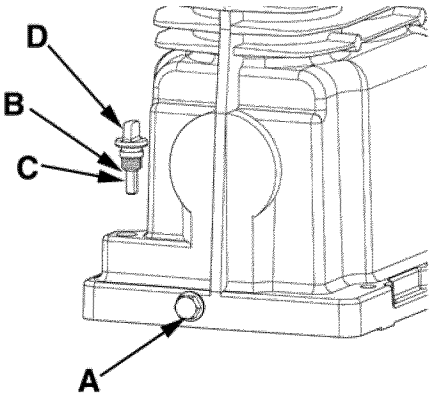


Fig. 7

BELT TENSION AND PULLEY ALIGNMENT

WARNING: To avoid personal injury, always shut off and unplug the compressor and relieve all air pressure from the system before performing any service on the air compressor.

NOTE: Drive belt tensioning and pulley alignment are done at the same time. They are discussed separately for clarity.

ADJUSTING DRIVE BELT TENSION

WARNING: RISK OF INJURY. This unit starts automatically. ALWAYS shut off the compressor, remove the plug from the outlet, and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds or belt guard removed. Serious injury could occur from contact with moving parts.

Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and belt life. The correct tension exists if a deflection (see **A**) of 1/2" (13 mm) occurs by placing 5 lbs (2.3 kg) of force (see **B**) midway between the motor pulley and the pump flywheel (See ***Fig. 8***). This deflection can be adjusted by the following procedure. The pulley should be carefully aligned with the flywheel, and all setscrews should be kept tight.

1. Remove the belt guard.
2. Loosen the motor mounting bolts.
3. Shift the motor to the point where the correct deflection exists (A & B).
4. Retighten the motor mounting bolts.
5. Check to ensure that the tension remained correct.
6. Reinstall the belt guard. All moving parts must be guarded.

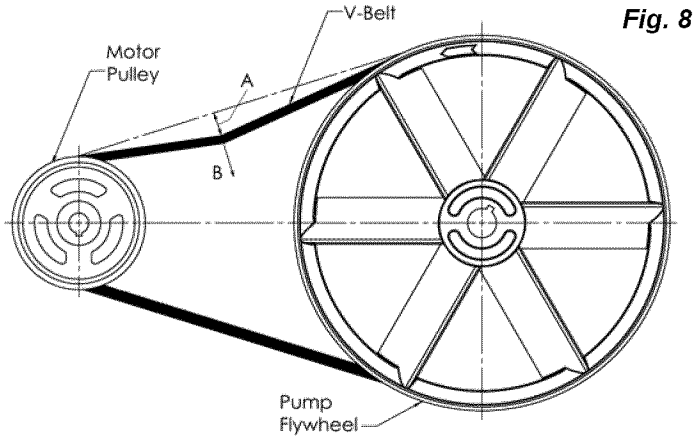
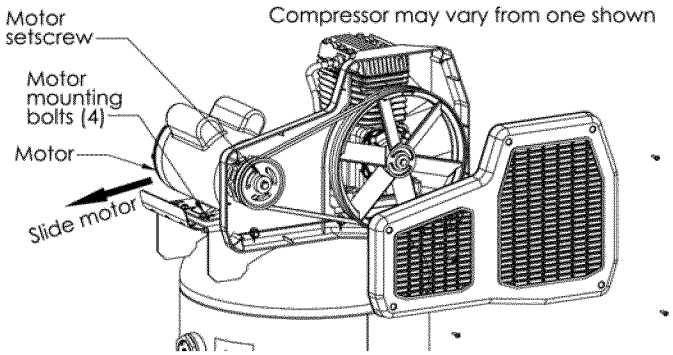


Fig. 8



PULLEY ALIGNMENT

⚠ WARNING: RISK OF INJURY. This unit starts automatically. ALWAYS shut off the compressor, remove the plug from the outlet, and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds or belt guard removed. Serious injury could occur from contact with moving parts.

To check pulley alignment, remove the belt guard and place a straightedge (see **A**) against the pump flywheel (see **B**) (See ***Fig. 9***). Measure and record the distance from the straightedge to the edge of the drive belt at point C. Then measure the distance from the straightedge to the edge of the drive belt again at points D and E. Both distances should be the same as at point C. If D or E are different from C, there is a misalignment which must be corrected before the compressor is run. To correct a pulley misalignment, use the following procedure.

1. Remove the belt guard.
2. Loosen the motor mounting bolts.
3. Loosen the setscrew on the motor pulley.
4. Align the motor pulley with the pump flywheel (**C-D-E must be equal**).
5. Retighten the motor pulley setscrew.
6. Adjust the proper belt tension.
7. Retighten the motor mounting bolts.
8. Reinstall the belt guard. All moving parts must be guarded.

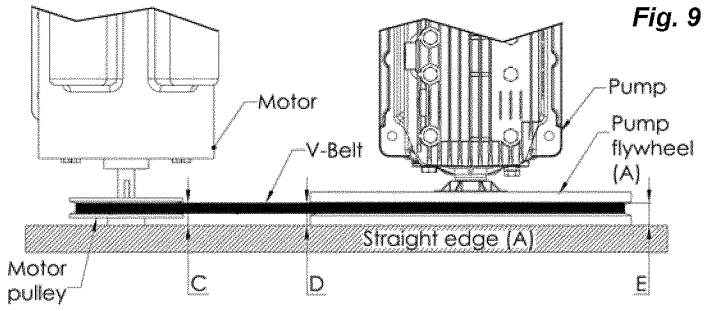
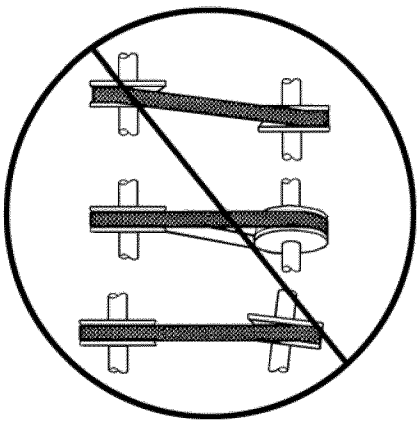
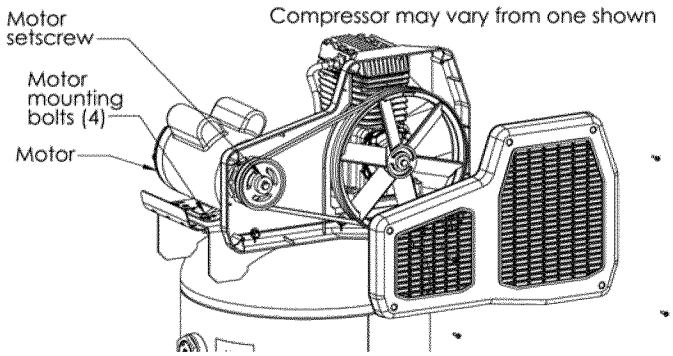


Fig. 9

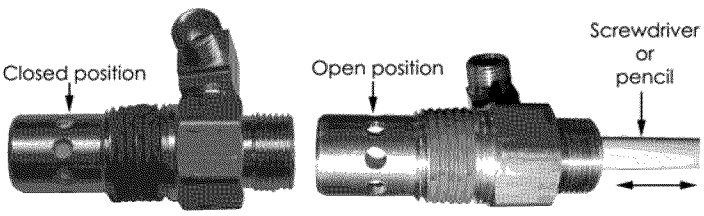




REPLACING OR CLEANING THE CHECK VALVE

⚠ WARNING: RISK OF INJURY. This unit starts automatically. ALWAYS shut off the compressor, remove the plug from the outlet, and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds or belt guard removed. Serious injury could occur from contact with moving parts.

1. Turn air compressor off, remove the power cord from the outlet or lock out the power supply and relieve all the air pressure from the tank. Make sure the compressor has cooled down before servicing.
2. Loosen the compression nut fitting on the check valve and pump head using an adjustable wrench. Remove the transfer tube.
3. Loosen the compression nut fitting on the side of the check valve and pressure switch using an adjustable wrench. Remove the bleeder tube.
4. Making note of the orientation for reassembly, unscrew the check valve from the tank (counterclockwise) using a 7/8" open end wrench.
5. Using a pencil or screwdriver, carefully push the valve disc up and down. If the valve disc does not move freely up and down, the check valve needs to be cleaned or replaced.
6. Clean the check valve with warm soapy water and make sure to dry thoroughly before reinstalling. If the disc valve still does not move freely up and down, it will need to be replaced.
7. Apply thread sealant to the check valve threads and reinstall into the tank by turning clockwise. Make sure it is the same orientation as when it was removed.
8. Replace the bleeder tube and tighten compression nuts.
9. Replace the transfer tube and tighten compression nuts.
10. Perform the "Break-in of the pump" procedure in the operating instructions to make sure there are no leaks and it's working properly.



MAINTENANCE

CLEANING THE AIR FILTER

A dirty air filter will reduce the compressor's performance and life. To avoid any internal contamination of the pump, the filter should be cleaned frequently, and replaced on a regular basis. Felt filters should be cleaned in warm, soapy water, rinsed, and allowed to air dry before reinstallation. Paper filters should be replaced when dirty. Do not allow the filter to become filled with dirt or paint. If the filter becomes filled with paint, it should be replaced. Direct exposure to dirty conditions or painting areas will void your warranty.

CHECKING THE RELIEF VALVE

Pull the relief valve daily to ensure that it is operating properly and to clear the valve of any possible obstructions.

TESTING FOR LEAKS

Check that all connections are tight. A small leak in any of the hoses, transfer tubes, or pipe connections will substantially reduce the performance of your air compressor. If you suspect a leak, spray a small amount of soapy water around the area of the suspected leak with a spray bottle. If bubbles appear, repair or replace the faulty component. Do not over tighten any connections.

STORAGE

Before storing the compressor for a prolonged period, use an air blow gun to clean all dust and debris from the compressor. Disconnect the power cord and coil it up. Pull the pressure relief valve to release all pressure from the tank. Drain all moisture from the tank. Clean the filter element and filter housing; replace the element if necessary. Drain the oil from the pump crankcase and replace it with new oil. Cover the entire unit to protect it from moisture and dust.

SERVICE INTERVAL

Perform the following maintenance at the intervals indicated below.	**Daily or after each use**	**Every 100 operating hours**
Inspect and clean air filter	●	
Check pump oil level	●	
Change pump oil *(Use synthetic, non-detergent air compressor oil)*		●
Operate the pressure relief valves	●	
Check belt tension		●
Drain tank	●	
Check and tighten all bolts *(do not over tighten)*		●

TROUBLESHOOTING

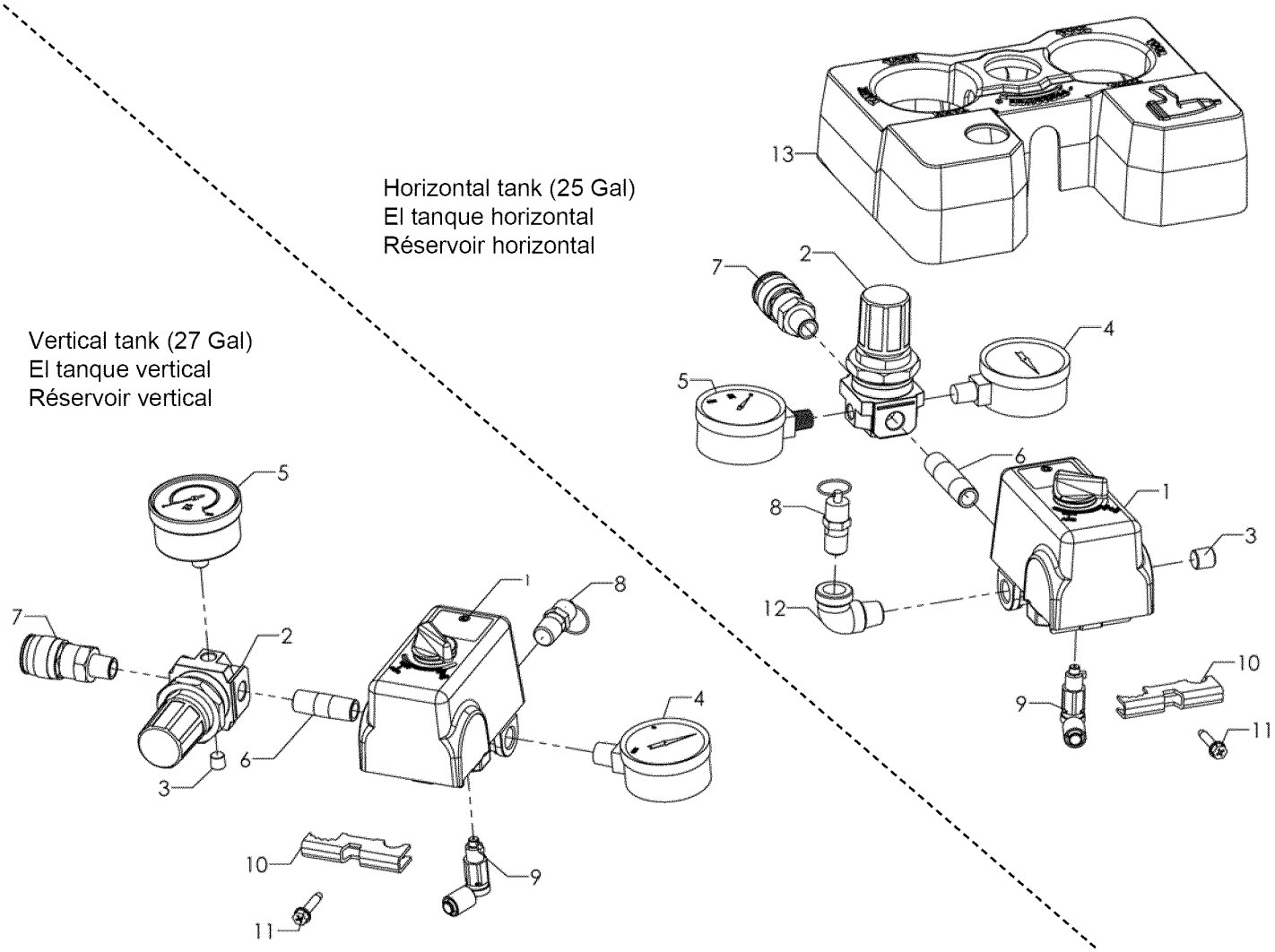
Note: Troubleshooting problems may have similar causes and solutions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Excessive current draw trips circuit breaker or motor reset switch	Low voltage/motor overload	Check that power supply is adequate and that compressor is on a dedicated circuit. If using extension cord, try using without. If compressor is connected to a circuit protected by a fuse, use dual element time delay fuses (Buss Fusetron type "T" only).
	Drive belt too tight	Readjust belt tension.
	Restricted air passages	Inspect and replace transfer tubes or the check valve, (see "To replace or clean check valve" in the maintenance section).
Compressor stalls	Low voltage to motor	Furnish adequate power.
	Bad check valve	Replace the check valve (see "To replace or clean check valve" in the maintenance section).
	Seized pump	Contact a Sears or other qualified service center.
Low discharge pressure	Air leaks	Tighten or replace leaking fittings or connections. Do not overtighten.
	Leaking valves	Contact a Sears or other qualified service center.
	Restricted air intake	Clean or replace air filter element(s).
	Blown gaskets	Contact a Sears or other qualified service center.
	Worn piston rings or cylinder	Contact a Sears or other qualified service center.
Compressor pump knocking	Loose motor pulley or pump flywheel	Retighten pulley and flywheel. Check alignment.
	Low oil level in pump crankcase	Keep oil at proper level at all times.
	Excess carbon on valves or top of piston	Contact a Sears or other qualified service center.
Oil in discharge air	Worn piston rings or cylinder	Contact a Sears or other qualified service center.
	Restricted air intake	Clean or replace the air filter element(s).
	Oil level too high	Reduce to proper level.
Overheating	Poor ventilation	Relocate compressor to an area with cool, dry, well circulated air, at least 12 in. from nearest wall.
	Dirty cooling surfaces	Clean all cooling surfaces thoroughly.
	Restricted air passages	Inspect and replace transfer tubes or the check valve, (see "To replace or clean check valve" in the maintenance section).
Excessive belt wear	Pulley out of alignment	Realign pulley with compressor flywheel.
	Improper belt tension	Readjust.
	Pulley wobbles	Replace the pulley and check for a damaged crankshaft or flywheel.
Compressor won't start in cold temperatures	Too much back pressure in tank	Open petcock when starting motor.
	40W oil in crankcase	Use synthetic, non-detergent air compressor oil.
	Compressor too cold	Move compressor to a warmer location.
Air leaking through bleeder valve after compressor shuts off	Dirty or defective check valve.	Replace or clean the check valve (see "To replace or clean check valve" in the maintenance section).

PARTS DRAWING

Horizontal tank (25 Gal)
El tanque horizontal
Réservoir horizontal

Vertical tank (27 Gal)
El tanque vertical
Réservoir vertical

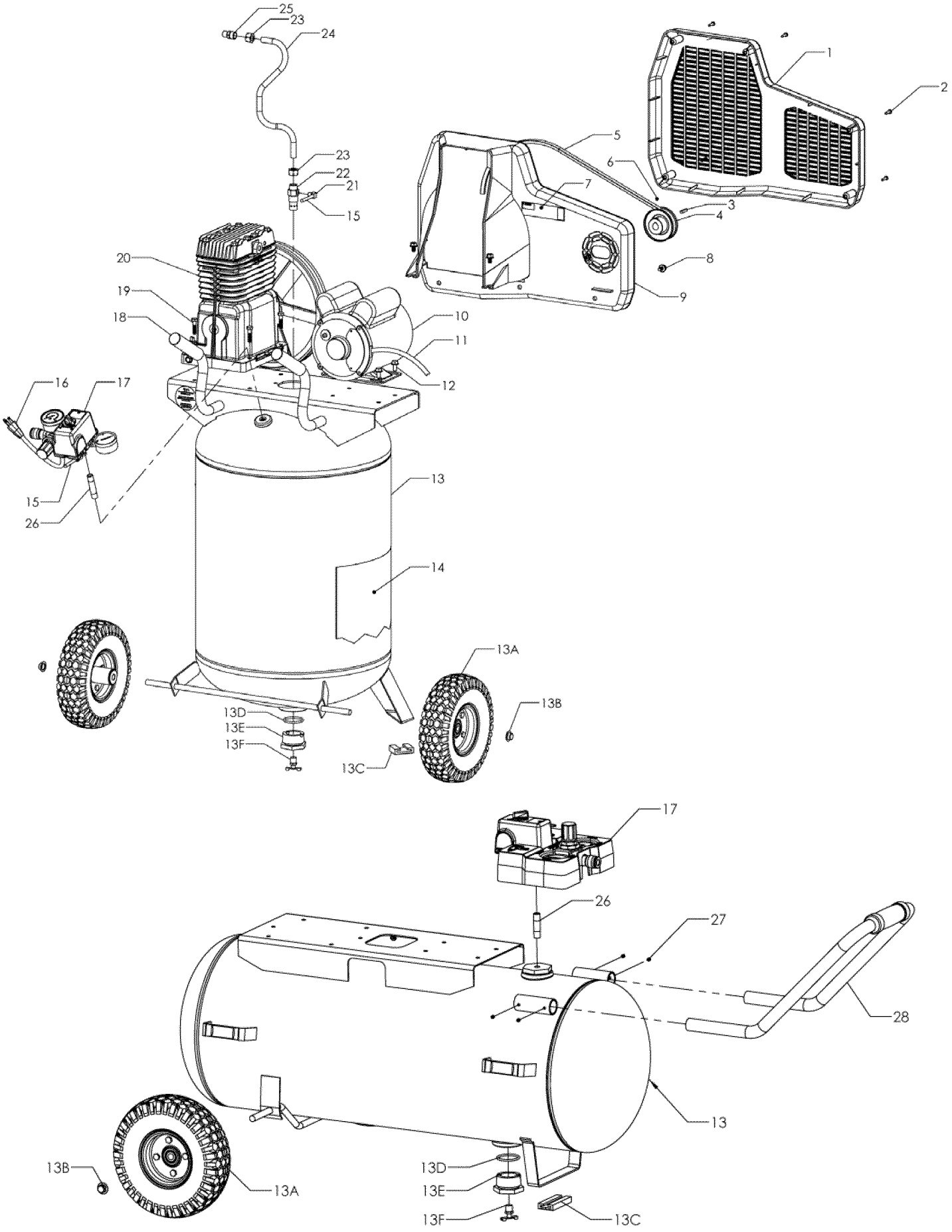


PARTS DRAWING

Item Artículo Article	Part No. Núm / P No / P	Qty Cant Qté	Description	Descripción	Description
1	034-0228	1	Switch, pressure (*includes items 9-11)*	Manómetro (*incluye los artículos 9-11)*	Interrupteur (*inclut les éléments 9-11)*
2	019-0270	1	Regulator	Regulador	Régulateur
3	N/A	1	Plug, 1/8”X 5/16” *(27 gal vert)*	Enchufe	Prise
or	N/A	1	Plug, 1/4” *(25 gal horiz)*	Enchufe	Prise
4	032-0025	1	Gauge, 300# 1/4” bottom connect *(27 gal vert)*	Manómetro	Manomètre
or	032-0118	1	Gauge, 300 PSI 1/8" RH connect *(25 gal horiz)*	Manómetro	Manomètre
5	032-0092	1	Gauge 300 PSI, 2" Dia Face *(27 gal vert)*	Manómetro	Manomètre
or	032-0119	1	Gauge, 300 PSI 1/8" LH Connect *(25 gal horiz)*	Manómetro	Manomètre
6	N/A	1	Nipple 1/4” X 1 1/2” *(27 gal vert)*	Niple	Manchon fileté
or	N/A	1	Nipple, 1/4” x 2” *(25 gal horiz)*	Niple	Manchon fileté
7	036-0031	1	Quick connect coupler	Acoplador especial	Raccord rapide
8	136-0104	1	Valve, ASME	Válvula	Soupape
9	136-0090	1	Valve, bleeder	Válvula	Soupape
10	071-0033	1	Strain relief	Aliviador de esfuerzo	Soulagement de traction
11	061-0216	1	Screw	Tornillo	Vis
12	N/A	1	Street Elbow, 1/4"-90° *(25 gal horiz)*	Te	Pièce en t
13	142-0235	1	Control panel cover *(25 gal horiz)*	Cubierta	Couverture

**N/A - These are standard parts available at your local hardware store.*
**N/A - Estas son piezas estándares disponibles en su ferretería local.*
**N/A - Ces pièces sont des pièces standard disponibles en quincaillerie.*

PARTS DRAWING



PARTS LIST

Item Artículo Article	Part No. Núm / P No / P	Qty Cant Qté	Description	Descripción	Description
1	125-0151	1	belt guard, outer	Protector	Garant
2	N/A	5	Screw, #10-14	Tornillo	Vis
3	146-0016	1	Key	Chaveta	Clé
4	006-0009	1	Pulley	Polea	Poulie
5	007-0013	1	V-Belt, 4L-510	Correa	Courroie
6	N/A	2	Setscrew, 5/16"-18	Tornillo fajador	Vis d'arrêt
7	098-2856	1	Label, warning	Amonestadora escritura de la etu	D'avertissement étiquette
8	N/A	5	Bolt, 5/16-18 x 1/2"	Perno	Boulon
9	125-0152	1	belt guard, inner	Protector	Garant
10	160-0264	1	Motor *(see capacitor table below)*	Motor	Moteur
11	026-0233	1	Cord, interconnect	Cordón	Câble
12	N/A	4	Bolt, 5/16 x 1/2"	Perno	Boulon
13	153-0173	1	Tank assembly *(27 gallon vert)*	Conjunto de tanque	Ensemble du réservoir
or	153-0172	1	Tank assembly *(25 gallon horiz)*	Conjunto de tanque	Ensemble du réservoir
13A	095-0038	2	Wheel	Rueda	Roue
13B	033-0001	2	Hubcap 1/2"	Tapacubo	Chapeau de moyeu
13C	094-0029	2	Pad *(vert.)*	Almohadilla	Tampon
or	094-0031	1	Pad *(horiz.)*	Almohadilla	Tampon
13D	513-0002	1	O-Ring 1-1/2	Anillo tórico	Joint torique
13E	512-0035	1	Bushing, 1-1/2 NPSM x 1/4 NPT	Buje	Bague
13F	072-0001	1	Petcock	Llave de desagüe	Robinet de purge
14	098-3870	1	Label, warning	Amonestadora escritura de la etu	D'avertissement étiquette
15	145-0394	1	Tube, bleeder 1/4" x 12.25"	Tubo	Tube
16	026-0030	1	Cord, power	Cordón	Câble
17	See page 13	1	Manifold assembly	Conjunto de múltiple	Ensemble du collecteur
18	093-0031	1	Handle grip *(vert.)*	Empuñadura	Poignée
19	N/A	4	Bolt, 5/16 x 1 1/4"	Perno	Boulon
20	See pages 16 & 17	1	Pump assembly	Conjunto de bomba	Ensemble du pompe
21	064-0056	1	Elbow, 90° brass	Codo	Coude
22	031-0060	1	Check Valve, 1/2" x 1/2" *(horiz.)*	Válvula	Soupape
or	031-0037	1	Check Valve, 1/2" x 3/8" *(vert.)*	Válvula	Soupape
23	058-0016	2	Nut, 1/2" O.D. tube *(horiz.)*	Tuerca	Écrou
or	058-0007	2	Nut, 3/8" O.D. tube *(vert.)*	Tuerca	Écrou
24	145-0623	1	Tube, transfer *(horiz.)*	Tubo	Tube
or	145-0636	1	Tube, transfer *(vert.)*	Tubo	Tube
25	068-0063	1	Connector, 1/4" X 1/2" *(horiz.)*	Conector	Connecteur
or	068-0092	1	Connector, 1/4" X 3/8" *(vert.)*	Conector	Connecteur
26	N/A	1	Nipple, 1/4" x 2-1/2" *(vert.)*	Niple	Manchon fileté
or	N/A	1	Nipple, 1/4" x 2" *(horiz.)*	Niple	Manchon fileté
27	N/A	4	Setscrew, M6 x 6mm *(horiz.)*	Tornillo fajador	Vis d'arrêt
28	112-0198	1	Handle assy *(horiz-includes grip)*	Empuñadura	Poignée

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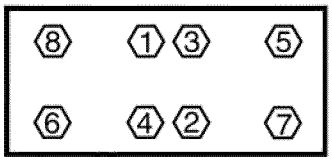
*N/A - Ces pièces sont des pièces standard disponibles en quincaillerie.

CAPACITORS / CONDENSADORES / CONDENSATEURS

	Start capacitor La condensador de arranque Le condensateur de démarrage	Start capacitor cover La tapa de arranque la condensador Le couvercle de démarrage du condensador	Run capacitor La condensador de funcionar Le condensateur de march	Run capacitor cover La tapa de funcionar la condensador Le couvercle de marche du condensateur
A.O. Smith motor capacitors	166-0143 *A.O. Smith p/n - 16622936*	166-0145 *A.O. Smith p/n - 174588-004*	166-0144 *A.O. Smith p/n - 628318-313*	166-0146 *A.O. Smith p/n - 17821153*
GE motor capacitors	166-0148 *GE p/n - 52A103967P1*	166-0150 *GE p/n - 111B291AAP3*	166-0149 *GE p/n - 976B399ASP3*	166-0151 *GE p/n - 111B276ACP8*
Better motor capacitors	166-0180 *Better p/n - 0901080*	166-0182 *Better p/n - 0104045*	166-0181 *Better p/n - 0901040*	166-0182 *Better p/n - 0104045*

PARTS DRAWING

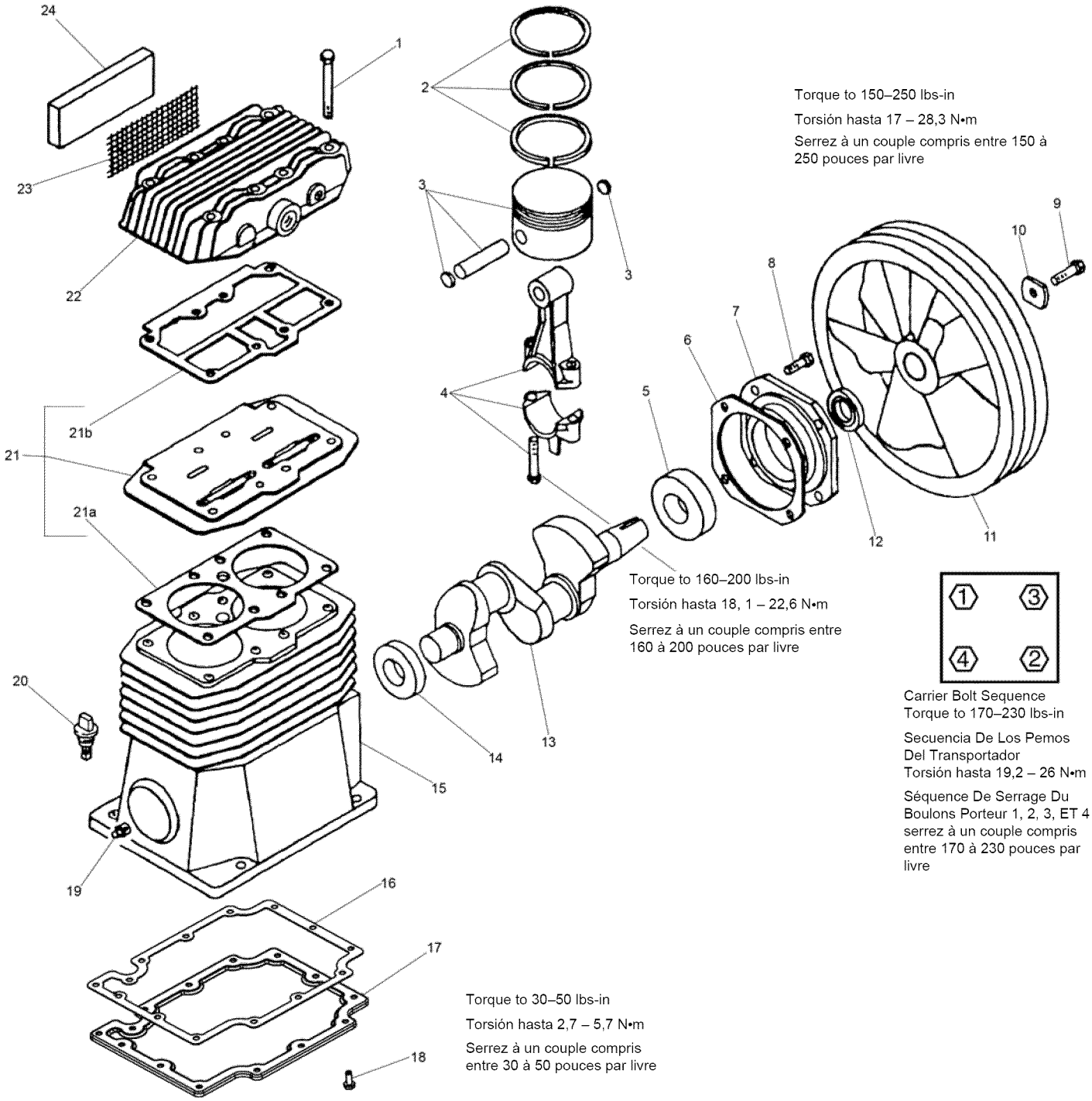
130 Pump Assy



Head Bolt Torque Sequence
Secuencia De Los Pernos Del Cabeza
Séquence De Serrage Des Boulons À Tête

Sequence #'s 1, 2, 3, 4, 5, 6, 7 & 8
Torque to 220–300 lbs-in
De Secuencia 1, 2, 3, 4, 5, 6, 7 y 8
Torsión hasta 24,6 – 33,9 N•m
Séquence De Serrage Des Boulons 1, 2, 3, 4, 5, 6, 7 et 8 serrez à un couple compris entre 24,6 à 33,9 N•m

Pump Specifications
Weight–39 lbs.
Oil Capacity (approx.)–18 oz.
Min. RPM–700
Max, RPM–1200
Max. Ambient Temp–104°F (40°C)



Torque to 150–250 lbs-in
Torsión hasta 17 – 28,3 N•m
Serrez à un couple compris entre 150 à 250 pouces par livre

Torque to 160–200 lbs-in
Torsión hasta 18, 1 – 22,6 N•m
Serrez à un couple compris entre 160 à 200 pouces par livre

Carrier Bolt Sequence
Torque to 170–230 lbs-in
Secuencia De Los Pemos Del Transportador
Torsión hasta 19,2 – 26 N•m
Séquence De Serrage Du Boulons Porteur 1, 2, 3, ET 4 serrez à un couple compris entre 170 à 230 pouces par livre

Torque to 30–50 lbs-in
Torsión hasta 2,7 – 5,7 N•m
Serrez à un couple compris entre 30 à 50 pouces par livre

PARTS LIST

130 Pump Assy

Item Artículo Article	Part No. Núm / P No / P	Qty Cant Qté	Description	Descripción	Description
1	059-0144	8	Screw, 5/16–18 x 2.50" lg	Tornillo	Vis
2	054-0112	1	Ring set	Juego de anillos	Jeu d'anneaux
3	048-0065	2	Piston assembly	Conjunto de pistón	Ensemble du piston
4	047-0091	2	Rod, 130 pump	Varilla	Tige
5	051-0043	1	Bearing	Cojinete	Roulement
6	046-0149	1	Gasket	Empaquetadura	Joint
7	045-0053	1	Carrier, *includes items 5 & 12*	Portador, *incluye los artículos 5 y 12*	Support, *inclut les éléments 5 et 12*
8	N/A	4	Screw, 5/16-18 x 1" lg	Tornillo	Vis
9	N/A	1	Screw, 5/16-18 x 1.0" lg	Tornillo	Vis
10	060-0053	1	Washer	Arandela	Rondelle
11	044-0064	1	Flywheel, 12" A width	Volante, A	Volant-moteur, A
12	046-0161	1	Seal	Sello	Joint
13	053-0041	1	Crankshaft, 130 pump	Cigüeñal	Vilebrequin
14	051-0013	1	Bearing	Cojinete	Roulement
15	049-0050	1	Crankcase, *includes item 14*	Cárter, *incluye los artículos 14*	Carter, *inclut les éléments 14*
16	046-0263	1	Gasket	Empaquetadura	Joint
17	077-0148	1	Base	Base	Base
18	061-0113	14	Screw, #10-24 x 1/2	Tornillo	Vis
19	061-0112	1	Plug, 5/16-18	Tapón	Bouchon
20	056-0019	1	Dipstick	Varilla de aceite	Jauge de niveau
21	043-0142	1	Plate, assy, *includes 21a–21b*	Conjunto de placa, *incluye los artículos 21a-21b*	Ensemble du plaque, *inclut les éléments 21a-21b*
21a	*046-0152*	*1*	*Gasket*	*Empaquetadura*	*Joint*
21b	*046-0151*	*1*	*Gasket*	*Empaquetadura*	*Joint*
22	042-0103	1	Head	Cabezal	Tête
23	118-0023	1	Screen	Malla	Crépine
24	019-0052	1	Filter, felt	Filtro	Filtre

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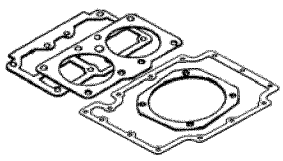
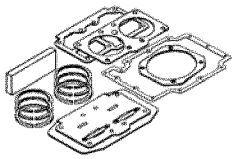
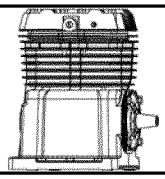
*N/A - Estas son piezas estándares disponibles en su ferretería local.
*N/A - Ces pièces sont des pièces standard disponibles en quincaillerie.

Available Service Kits					
	046-0159	1	Gaskets, complete set *(includes items 6, 16, 21a and 21b)*	Juntas, conjunto completo *incluye los artículos 6, 16, 21a y 21b)*	Joints, jeu complet (*inclut les éléments 6, 16, 21a et 21b)*
	165-0083	1	Overhaul kit, *ncludes ring and gasket sets, valve plate assembly and filter element*	Juego de acondicionamiento, *incluye conjuntos de anillo y junta, conjunto de la placa de la válvula y elemento del filtro*	Jeu de pièces de réparation, *comprend des jeux de bagues et de joints, l'assemblage de la plaque et de joints, l'assemblage de la plaque de la soupape et l'élément du filtre*
	040-0429	1	Pump assembly *includes items 1-24 excluding 9-10 and 11*	Ensamblaje de la bomba (*incluye los artículos 1-24 excepto 9-10 y 11)*	Pompe (*inclut les éléments 1-24 à l'exclusion de 9-10 et 11)*