Item #1000 746 892 Model #HS518102



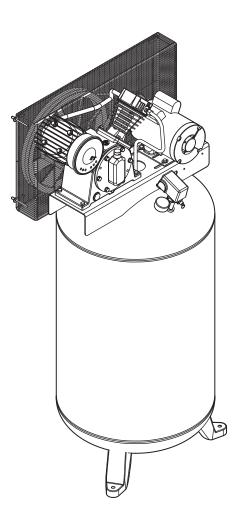
USE AND CARE GUIDE

80-GALLON STATIONARY AIR COMPRESSOR

Questions, problems, missing parts? Before returning to the store, call Husky Customer Service 8 a.m. - 6 p.m., EST, Monday - Friday

1-888-43-HUSKY

HUSKYTOOLS.COM



THANK YOU

We appreciate the trust and confidence you have placed in Husky through the purchase of this air compressor. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Husky!

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Safety Information

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.



DANGER: Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



WARNING: Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.



IMPORTANT: Indicates important information, that if not followed, may cause damage to equipment.



NOTE: Information that requires special attention.

CALIFORNIA PROPOSITION 65



WARNING: This product or its power cord may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



WARNING: You can create dust when you cut, sand, drill, or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

Safety Information (continued)

GENERAL SAFETY



DANGER: Breathable Air Warning: This compressor/pump is NOT equipped and should NOT be used "as is" to supply breathing quality air. For any application of air for human consumption, you must fit the air compressor/pump with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1, OSHA 29 CFR 1910. 134, and/or Canadian Standards Associations (CSA).

Disclaimer of Warranties: In the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties are void, and the Manufacturer disclaims any liability whatsoever for any loss, personal injury, or damage.



DANGER: Never attempt to repair or modify a tank! Welding, drilling, or any other modification will weaken the tank, resulting in damage from rupture or explosion. Always replace worn, cracked, or damaged tanks.



CAUTION: See the compressor specification decal for maximum operating pressure. Do not operate with pressure switch or pilot valves set higher than the maximum operating pressure.



IMPORTANT: Drain liquid from the tank daily.



NOTE: The **DANGER**, **WARNING**, **CAUTION**, **IMPORTANT**, and **NOTE** notifications and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that caution is a factor which cannot be built into this product, but must be supplied by the operator.

- 1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- 2. Only persons well acquainted with these rules of safe operation should be allowed to use the compressor.
- 3. Tanks rust from moisture build-up, which weakens the tank. Make sure to drain the tank regularly and inspect periodically for unsafe conditions, such as rust formation and corrosion.
- 4. Fast moving air will stir up dust and debris which may be harmful. Release air slowly when draining moisture or depressurizing the compressor system.

Safety Information (continued)

WORK AREA SAFETY



WARNING: Motors, electrical equipment, and controls can cause electrical arcs that will ignite a flammable gas or vapor. Never operate or repair in or near a flammable gas or vapor. Never store flammable liquids or gases in the vicinity of the compressor.



WARNING: An ASME code safety relief valve with a setting no higher than the maximum allowable working pressure (MAWP) MUST be installed in the tank for this compressor. The ASME safety valve must have sufficient flow and pressure ratings to protect the pressurized components from bursting.



WARNING: Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.



WARNING: This compressor is extremely top heavy. The unit must be bolted to the floor with isolation pads before operating to prevent equipment damage, injury, or death.



WARNING: Do not modify this compressor. Do not use or create accessories not recommended for use with this compressor. Alterations and/or modifications are a form of misuse, which could result in a hazardous condition leading to possible personal injury or equipment damage.



CAUTION: Do not use this compressor in an environment where the air is contaminated or dusty. Using this compressor in such an environment may cause equipment damage.

- 1. Keep visitors away from the compressor, and NEVER allow children in the work area.
- 2. Before each use, inspect the compressed air system and electrical components for signs of damage, deterioration, weakness, or leakage. Repair or replace defective items before using.
- 3. Check all fasteners at frequent intervals for proper tightness.
- 4. If the equipment should start to vibrate abnormally, STOP the engine/motor and check immediately for the cause. Vibration is generally a warning of trouble.
- 5. To reduce fire hazard, keep the engine/motor exterior free of oil, solvent, or excessive grease.
- 6. Never attempt to adjust the ASME safety valve. Keep the safety valve free from paint and other accumulations.

Safety Information (continued)

PERSONAL SAFETY



WARNING: Never operate the compressor without a beltguard. This unit can start automatically without warning. Personal injury or property damage could occur from contact with moving parts.



CAUTION: Compressor parts may be hot even if the unit is stopped.

- 1. Wear safety glasses and use hearing protection when operating the unit.
- 2. Do not stand on or use the unit as a handhold.
- 3. Do not wear loose clothing or jewelry that will get caught in the moving parts of the unit.
- 4. Keep fingers away from a running compressor; fast moving and hot parts will cause injury and/or burns. Compressor parts may be hot even if the unit is stopped.

ELECTRICAL SAFETY



WARNING: Improper electrical grounding can result in electrical shock. The wiring should be done by a qualified electrician.



CAUTION: Improper electrical installation of this product may void its warranty. Have circuit wiring performed by qualified personnel, such as a licensed electrician who is familiar with the current national and local electrical codes.

- 1. Follow all local electrical and safety codes as well as in the United States, the National Electrical Codes (NEC), and Occupational Safety and Health Act (OSHA).
- 2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 4. Replace damaged cords/wiring immediately. Damaged cords/wiring increase the risk of electric shock.

SPRAYING PRECAUTIONS



WARNING: Do not spray flammable materials in the vicinity of open flame or near ignition sources including the compressor unit.

- 1. Do not smoke when spraying paint, insecticides, or other flammable substances.
- 2. Use a face mask/respirator when spraying and spray in a well ventilated area to prevent health and fire hazards.
- 3. Do not direct paint or other sprayed material at the compressor. Locate the compressor as far away from the spraying area as possible to minimize overspray accumulation on the compressor.
- 4. When spraying or cleaning with solvents or toxic chemicals, follow the instructions provided by the chemical manufacturer.

LIMITED TWO-YEAR WARRANTY

WHAT IS COVERED

From the date of purchase, parts and labor are covered to remedy substantial defects due to material and workmanship during the first year of ownership with the exceptions noted below. From the date of purchase, parts only are covered to remedy substantial defects due to material and workmanship during the second year of coverage with exceptions noted below.

This warranty applies only to the original retail purchaser and may not be transferred. If the compressor is used for commercial, industrial, or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Two-stage compressors are not limited to a ninety (90) day warranty when used in commercial or industrial applications. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

WARRANTOR: Campbell Hausfeld/Scott Fetzer Company, 100 Production Drive, Harrison, Ohio, 45030 Telephone: (800) 543-6400

The responsibilities of the warrantor under this warranty is to repair or replace, at the warrantor's option, this compressor or components which are defective, have malfunctioned, and/or have failed to conform within the duration of the specific warranty period. Repair or replacement will be scheduled and serviced according to the normal work-flow at the servicing location and will depend on the availability of replacement parts.

The responsibilities of the purchaser under this warranty are as follows: a) provide dated proof of purchase and maintenance records; b) call to obtain your warranty service options [freight costs must be borne by the purchaser]; c) use reasonable care in the operation and maintenance of the products as described in the owner's manual(s); d) repairs requiring overtime, weekend rates, or anything beyond the standard manufacturer warranty repair labor reimbursement rate; e) time required for any security checks, safety training, or similar for service personnel to gain access to facility; and f) location of unit must have adequate clearance for service personnel to perform repairs and easily accessible.

WHAT IS NOT COVERED

This warranty does not cover normal wear and tear or any malfunction, failure, or defect resulting from misuse, abuse, neglect, alteration, modification, or repair by other than a service center authorized by the manufacturer to repair this air compressor. Expendable materials, such as motor brushes, seals, etc. are not covered by this warranty. This warranty does not apply to this compressor used in industrial applications or for rental purposes. Husky makes no warranties, representations, or promises as to the quality or performance of its air compressors other than those specifically stated in this warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two years from the date of original purchase by the consumer. Any incidental, indirect, or consequential loss, damage, or expense that may result from any defect, failure, or malfunction of the manufacturer's product is not covered by this warranty. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The warranty does not cover any failure that results from an accident, purchaser's abuse, neglect, or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with compressor.

This warranty does not cover pre-delivery service, i.e. assembly, oil or lubricants, and adjustment. This warranty does not cover items or service that is normally required to maintain the product, i.e. lubricants, filters, gaskets, etc.

Gasoline engines and components are expressly excluded from coverage under this limited warranty. The purchaser must comply with the warranty given by the engine manufacturer which is supplied with the product.

The following items not covered under this warranty. This warranty excludes these items (pertaining to all compressors) as follows: a) any component damaged in shipment or any failure caused by installing or operating unit under conditions not in accordance with installation and operation guidelines or damaged by contact with tools or surroundings; b) pump or valve failure caused by rain, excessive humidity, corrosive environments, or other contaminants; c) cosmetic defects that do not interfere with compressor functionality; d) rusted tanks, including but not limited to rust due to improper drainage or corrosive environments; e) any components that are considered normal wear items and are not covered after the first year of ownership [the electric motor, check valve, pressure switch, regulator, pressure gauges, hose, tubing, pipe, fittings and couplers, screws, nuts, hardware items, belts, pulleys, flywheel, air filter and housing, gaskets, seals, oil leaks, air leaks, oil consumption or usage, piston rings]; f) the tank drain valves; g) damage due to incorrect voltage or improper wiring; h) other items not listed but considered general wear parts; i) pressure switches, air governors, load/unload devices, throttle control devices, and safety valves modified from factory settings; j) damage from inadequate filter maintenance; and k) induction motors operated with electricity produced by a generator.

The following items not covered under this warranty. This warranty excludes these items (specific to lubricated compressors) as follows: a) pump wear or valve damage caused by using oil not specified; b) pump wear or damage caused by any oil contamination; and c) pump wear or damage caused by failure to follow proper oil maintenance guidelines, operation below proper oil level, or operation without oil.

Labor, service calls, or transportation charges after the first year of ownership are not covered on stationary air compressors. Stationary air compressors are defined as those units not including a handle or wheels.

This Limited Warranty applies in the U.S., Canada, and Mexico only This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

How to get service: Call 1-888-43-HUSKY or visit www.HUSKYTOOLS.com.

Pre-Installation

PLANNING INSTALLATION

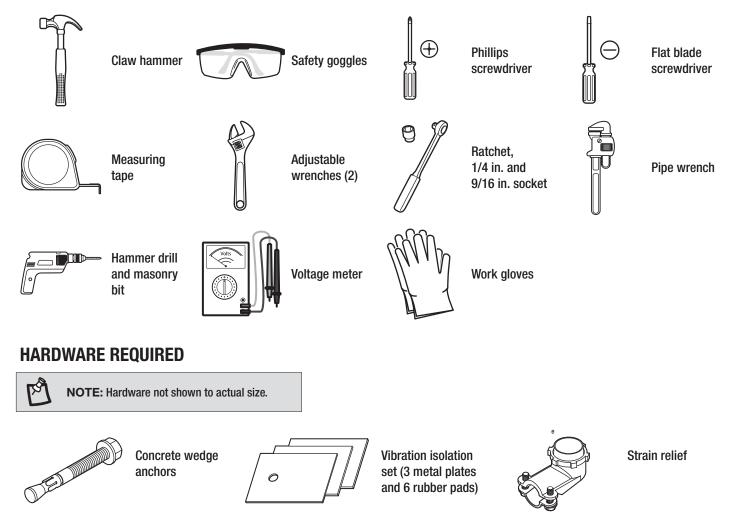


WARNING: Disconnect, tag, and lock out the power source before attempting to install or relocate the compressor.

IMPORTANT: This compressor is not intended for outdoor installation.

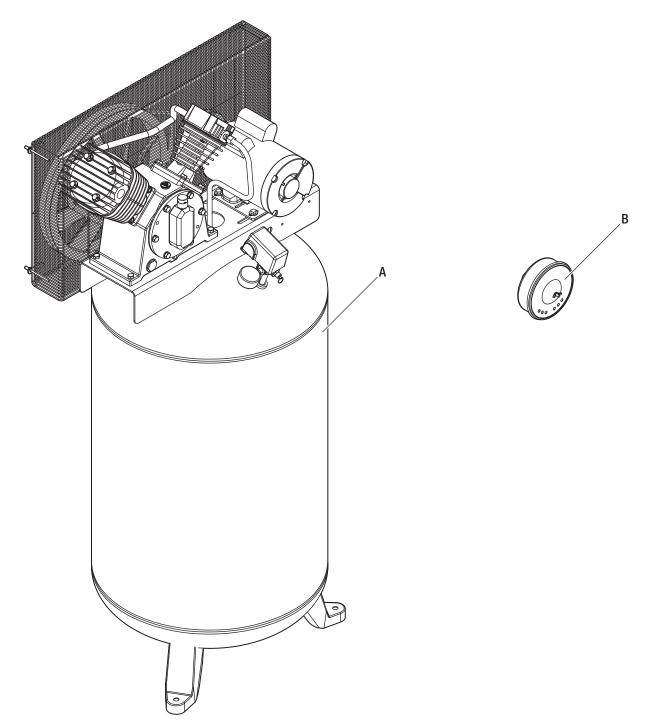
It is extremely important to install the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 100°F. Provide a minimum clearance of 18 in. between the compressor flywheel or fan and the wall, and ensure clear access to the drain valve to facilitate condensate drainage. Do not locate the compressor air inlet near steam, paint spray, sandblast areas, or any other source of contamination.

TOOLS REQUIRED



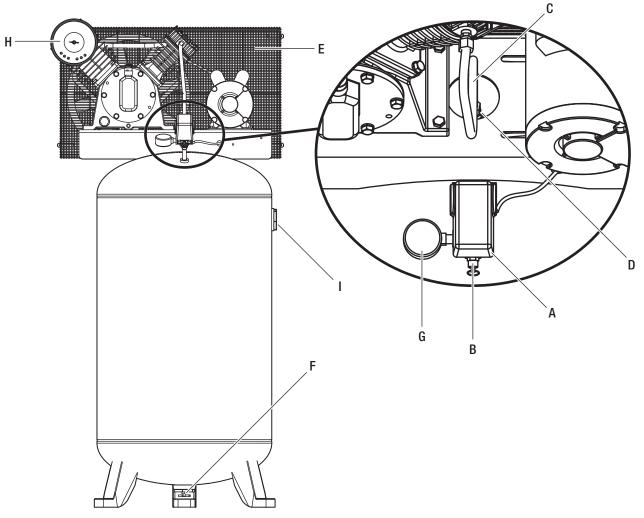
Pre-Installation

PACKAGE CONTENTS



Part	Description	Quantity
А	Air Compressor Unit	1
В	Air Filter Assembly	1

COMPRESSOR COMPONENTS



Part	Description						
A	Pressure Switch - When the compressor is turned ON, this switch will shut compressor off automatically when tank pressure reaches maximum shut-off / cut-out pressure. If compressor remains on and air is depleted from tank, this switch will allow compressor to automatically restart at the restart / cut-in pressure.						
В	ASME Safety Valve - This valve automatically releases air if the tank pressure exceeds the preset maximum.						
C Discharge Tube - This tube carries compressed air from the pump to the check valve. This tube becomes very To avoid the risk of severe burns, never touch the discharge tube.							
D	Check Valve - One-way valve that allows air to enter the tank, but prevents air in the tank from flowing back into the compressor pump.						
Е	Belt Guard - Covers the belt, motor pulley, and flywheel.						
F	Drain Valve - Use this valve to drain moisture from the tank daily to reduce the risk of corrosion.						
G	Tank Pressure Gauge - Indicates the amount of air pressure stored in the tank.						
Н	Air Filter - Keeps large particulates out of the air flowing into the compressor.						
I	Tank Outlet/Discharge Port - Air delivery port for transfer of compressed air.						

Pre-Installation (continued)

SPECIFICATIONS

Horsepower (HP)	5.0	
Number of Cylinders	2	
Voltage	230/240 Volts, 22 Amps	
	60 Hz, 1 Phase	
Air Delivery @ 90 psi	14.0 SCFM	
Air Delivery @ 175 psi	13.7 SCFM	
Max. Air Pressure	175 psi	

Tank Outlet Size	3/4 NPT	
Oil Capacity	approximately 2 quarts	
Length	27 in.	
Width	35 in.	
Height	70 in.	
Shipping Weight	458 lbs.	

Installation - Mounting

Preparing for installation

WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.



WARNING: This compressor is extremely top heavy. Enlist additional help to remove it from the shipping skid.



CAUTION: Never use the shipping skid for mounting the compressor.

IMPORTANT: Provide a minimum clearance of 18 in. between the compressor flywheel or fan and the wall, and ensure clear access to the drain valve to facilitate condensate drainage.



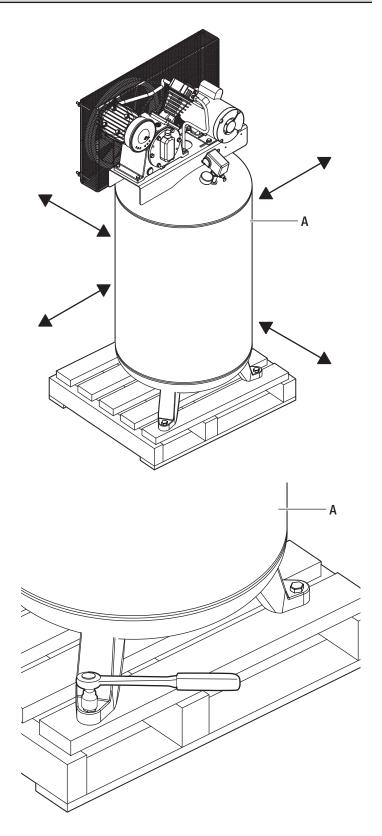
IMPORTANT: It is extremely important to install the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 100°F.



IMPORTANT: Do not locate the compressor air inlet near steam, paint spray, sandblast areas, or any other source of contamination.

IMPORTANT: This compressor is not intended for outdoor installation.

- Unbolt the air compressor unit (A) from the shipping skid.
 Use a ratchet with a 9/16 in. socket.
- Remove the air compressor unit (A) from the skid. This requires at least two people one person to "walk" the unit off the skid and one to help maintain balance so the unit does not topple. Place the air compressor unit (A) where you plan to install it (at least 18 in. from any wall or surface).



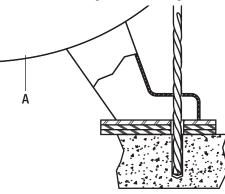
Installation - Mounting (continued)

2

Drilling the mounting holes

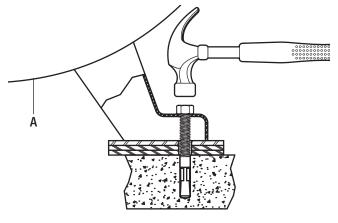
WARNING: This compressor is extremely top heavy. The unit must be bolted to the floor with isolation pads before operating to prevent equipment damage, injury, or death.

- Place the pre-drilled vibration pads under each air compressor unit (A) foot to avoid unnecessary vibration which could damage the air compressor unit (A).
- □ Using the mounting holes and the holes of the vibration pads as a guide, drill holes into the concrete using a 3/8 in. masonry bit. Holes drilled must be at least as deep as the concrete wedge anchors being used.



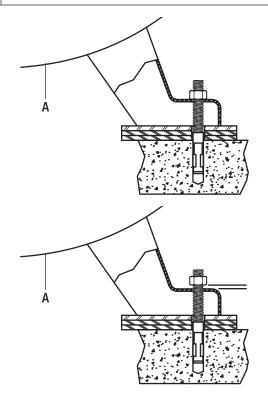
Inserting the mounting bolts

- □ Insert the mounting bolts into the drilled holes.
- Place a washer on each bolt. Thread a nut onto each bolt until the top of the nuts and bolts are flush.
- Strike the bolt heads with a hammer until the nuts and washers are sitting on top of the air compressor unit (A) foot.



Setting the mounting bolts

- Tighten the nuts using a ratchet with a 9/16 in. socket until the anchors are set.
- Use the installation torque specifications of the bolt (provided by the bolt manufacturer).
- □ Loosen the nuts to leave a 1/16 in. (1.6 mm) gap for stress relief during the air compressor unit (A) operation.



Installation - Electrical

1

Preparing for installation

DANGER: Improperly grounded motors are shock hazards. Make sure all the equipment is properly grounded.



WARNING: All wiring and electrical connections must be performed by a qualified electrician familiar with industrial motor controls. Installations must be in accordance with local and national codes.



WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.



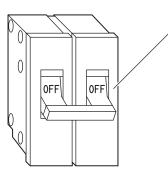
WARNING: Overheating, short circuiting, and fire damage will result from inadequate wiring.

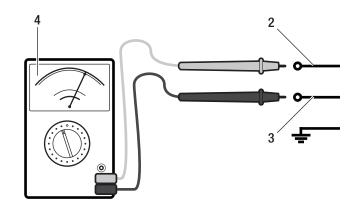
IMPORTANT: Damage to the motor from improper electrical voltage or connection will void the warranty.

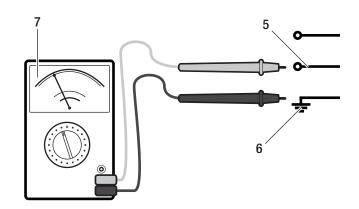
This product must be grounded. If the unit comes with a factory installed cord, plug the cord into a properly sized, grounded outlet. For units that do not have a factory installed cord, install permanent wiring from the electrical source to the pressure switch with a ground conductor connected to the grounding screw on the pressure switch. A properly sized cord with a ground conductor and plug may also be installed by the user.

Local electrical wiring codes differ from area to area. Source wiring and the protector must be rated for at least the amperage and voltage indicated on the motor nameplate, and meet all electrical codes for this minimum. The minimum wire size should also meet all electrical codes, and wiring used up to 75 ft. long must be 10 AWG. Use slow blow fuses type T or a 240-Volt doublepole circuit breaker (1).

- Confirm the voltage of the incoming mains (2,3) using a voltage meter (4).
- The voltage meter should read 230/240 Volts. Do not proceed with installation if the voltage meter gives a different reading.
- Confirm the voltage of the incoming mains (5) and ground wire (6) using a voltage meter (7).
- The voltage meter should read 120 Volts. Do not proceed with installation if the voltage meter gives a different reading.





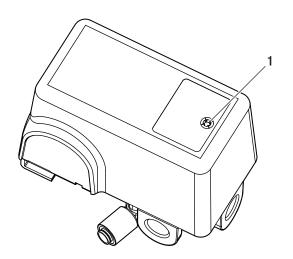


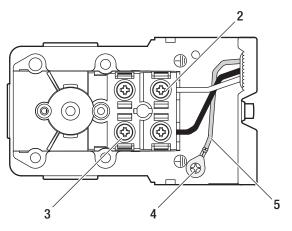
Installation - Electrical (continued)

2 Prepa

Preparing the pressure switch

- Remove the pressure switch cover by loosening the screw (1), as shown. Use a Phillips screwdriver.
- $\hfill\square$ Set the cover aside until wiring is completed.
- □ Familiarize yourself with these internal components of the pressure switch.
- Refer to the illustration below to identify the motor terminal (2), line terminal (3), ground screw (4), and ground line (5).

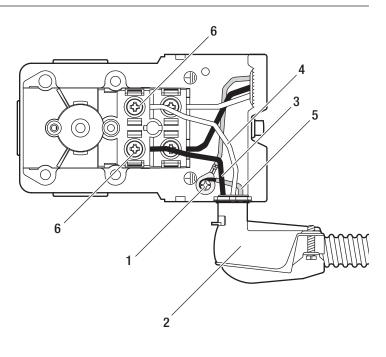




3

Making the electrical connections

- Remove the ground screw (1). Install the strain relief on the pressure switch (2). Do not tighten the strain relief on the power cord until wiring is complete. Insert the bare wires [black, white, bare/green](3, 4, 5) through the strain relief.
- Attach the bare/green ground wire (5) first to the ground screw (1) on the pressure switch body.
- □ Look for the "Line" markings on the pressure switch. Install the line wires (3, 4) and tighten the terminal screws (6).

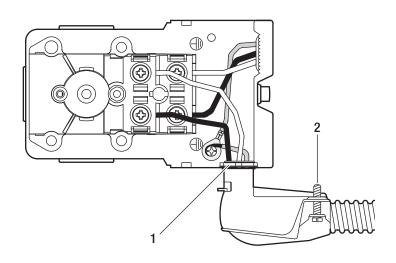


Installation - Electrical (continued)



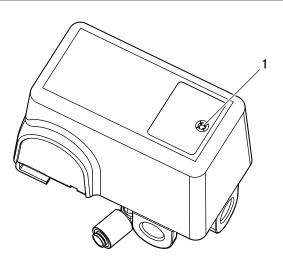
Securing the strain relief

- Tighten the strain relief nut (1). Place a flathead screwdriver into the raised notch, and tap the screwdriver with a hammer until tight.
- □ Tighten the strain relief screws (2) to hold the power cord securely.



5 Reinstalling the pressure switch cover

- $\hfill\square$ Replace the pressure switch cover.
- Tighten the pressure switch screw (1) with a Phillips screwdriver. Follow the break-in procedure from the owner's manual.



Assembly



Assembling the air compressor unit

WARNING: Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.



WARNING: Never install a shut-off valve between the compressor pump and the tank. Personal injury and/ or equipment damage may occur. Never use reducers in discharge piping.

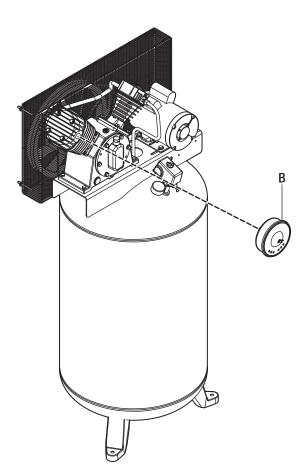


NOTE: Do not overtighten. Over the life of the unit, you will clean or replace the filter as needed.

This air compressor unit can be installed as part of an air distribution system. Any tube, pipe, or hose used in an air distribution system must have a pressure rating higher than 175 psi. The minimum recommended pipe size is 3/4 in. Using a larger diameter pipe is always better.

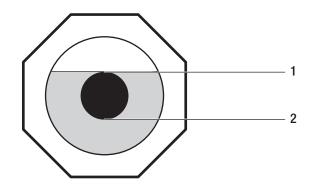
Install a shut-off valve on the discharge port of the tank to control the air flow out of the tank. Locate the valve between the tank and any piping system.

□ Screw the air filter (B) onto the pump air intake.



Operation

1	Preparing for use								
	CAUTION: Check for proper oil level before operating!								
Ø	NOTE: The pump oil level is full (1) as shown.								
Ø	NOTE: Use SAE 30 industrial grade air compressor oil or full synthetic motor oil like Mobil 1® 10W30.								
M	NOTE: Do not use regular automotive oil. Additives in regular motor oil can cause valve deposits and reduce pump life.								
M	NOTE: For maximum pump life, drain and replace oil after the first hour of run time.								



- □ Use the sight glass on the pump to determine the oil level.
- □ Add oil to the pump if the oil level is low (2).

2 Starting-up and breaking-in the compressor

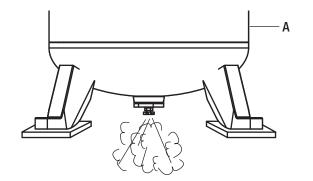


WARNING: Do not attach air tools to the open end of the hose until start-up is completed and the unit checks okay.

 \triangle

WARNING: Never disconnect threaded joints with pressure in the tank!

- With the power turned off, open the tank drain valve. The tank will not readily buildup any pressure.
- □ Return power to the air compressor unit (A).
- Run the air compressor unit (A) for thirty (30) minutes at zero (0) psi (under no load) to break-in the pump parts.
- Shut power off to the air compressor unit (A), and turn the tank drain valve to shut off air flow. The air compressor unit (A) is now ready for use.



Operation (continued)

ON/OFF CYCLING OF THE COMPRESSOR

The air compressor unit (A) is designed to cycle on and off. When the shut-off (preset "cut-out") pressure is reached, the compressor automatically shuts off.

When air is depleted from the tank by use of a tire chuck, tool, etc., the compressor will restart automatically at its preset "cut-in" pressure. When a tool is in use, the compressor will cycle on and off automatically as needed to maintain air pressure in the tank.

MOISTURE IN COMPRESSED AIR



WARNING: Drain the tank every day to prevent corrosion and possible injury due to tank damage. For optimal performance of the tank drain, the tank pressure should be between 10 - 40 psi. Do not operate the drain with more than 40 psi in the tank or the drain valve may be damaged. Drain the tank of moisture daily using the drain valve at the bottom of the tank.



IMPORTANT: This condensation will cause water spots in a paint job, especially when spraying other than water based paints. If sandblasting, it will cause the sand to cake and clog the gun, rendering it ineffective. A filter in the air line, located as near to the gun as possible, will help eliminate this moisture.



IMPORTANT: Drain liquid from the tank daily.

Moisture in compressed air will form into droplets as it comes from an air compressor pump. When humidity is high or when a compressor is in continuous use for an extended period of time, this moisture will collect in the tank. When using a paint spray or sandblast gun, this water will be carried from the tank through the hose, and out of the gun as droplets mixed with the spray material.

Follow the tank draining instructions in the Maintenance section of this manual.

Maintenance

GENERAL MAINTENACE

All repairs should be performed by an authorized service representative.



WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

Checking and changing the oil

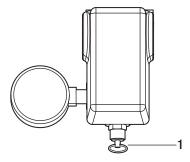
Maintain the proper oil level by checking the oil sight glass (1) daily. Change the oil in the pump every 3 months. Use the following procedure to change (or add) oil.

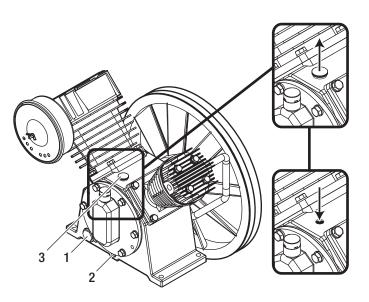
- Run the compressor for ten minutes to warm up the oil if the unit has not been in use for an extended period of time.
- □ Turn the compressor off and disconnect the compressor from the power source.
- □ Position a pan under the pump drain plug (2) to catch the oil.
- Remove the pump drain plug (2) and allow the oil to collect in the pan.
- Reinsert the oil drain plug. Remove the oil fill plug (3). Pour new, unused oil into the pump. Do not overfill.
- Reinsert the oil fill plug (3) into position. Return power to the compressor for use.

Checking the ASME safety valve

- $\hfill\square$ Run the air compressor until it reaches cut-out pressure.
- $\hfill\square$ Disconnect the compressor from the power source.
- $\hfill\square$ Put on safety glasses. Protect yourself from fast moving air.
- Pull on the ring of the ASME safety valve (1). This releases pressure from the tank. The safety valve should automatically close at approximately 40 - 50 psi.

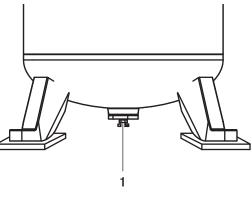
If the safety valve does not allow air to be released when you pull on the ring, or if it does not close automatically, it MUST be replaced.





Draining the tank of moisture

- Disconnect the air compressor unit (A) from the power source.
- Release the pressure from the compressor by pulling on the ASME safety valve. The ASME safety valve should close at approximately 40 - 50 psi.
- Open the drain valve (1) underneath the tank. Remaining air pressure will assist in removing moisture from the tank.



Maintenance (continued)

4 c

Checking the belt

- $\hfill\square$ Remove the four caps (1) and four flange nuts (2).
- □ Remove the front beltguard (3).
- Pull the front beltguard (3) away from the air compressor unit (A).
- If the belt appears to be in working order with proper tension and has no signs of damage, return the front beltguard (3) to the original position.
- □ Tighten the flange nuts (2) and reinstall the caps (1).
- If the belt needs to be replaced, move on to the next step.
- $\hfill\square$ If the belt does not need to be replaced, move to step 6.

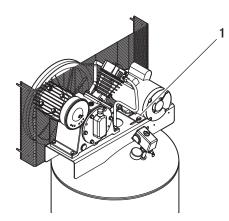
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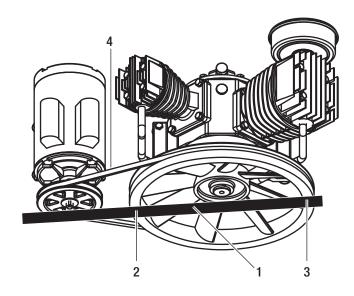
Aligning/tensioning the belt

- □ Lay a straightedge (1) against the face of the flywheel touching the rim at two places (2,3).
- Adjust the flywheel or motor pulley so that the belt (4) runs parallel to the straightedge. Use a gear puller to move the pulley on the motor shaft. Tighten the setscrew after the pulley is positioned.
- $\hfill\square$ Adjust the motor's distance from the pump if needed.
- Belt tension is determined by how much the belt moves when weight is applied. The belt should move no more than 3/8 to 1/2 in. downward if normal thumb pressure is placed on it.
- Tighten the motor bolts once the proper belt tension is achieved.
- □ Reattach the belt guard.

Removing the belt

- □ Loosen (but do not remove) the four bolts (1) holding the motor in place.
- □ Shift the motor towards the pump. The belt should be slack and easily removed.
- □ Replace the belt.
- $\hfill\square$ Move the motor back to the original position to create belt tension.
- □ Tighten the motor bolts.



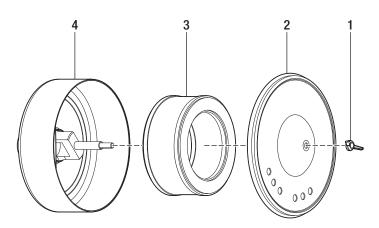


Maintenance (continued)



Checking the air filter

- □ Remove the nut (1).
- □ Remove the air filter cover (2) from the air filter base (4).
- □ Remove and inspect the air filter element (3).
- □ If the air filter element is dirty, replace it. Install a new filter element. If the air filter element is clean, reinstall it.
- □ Reattach the air filter cover (2).
- Reattach the nut (1). Do not overtighten the nut as this maintenance process will be repeated regularly. The nut (1) should be snug enough to hold the air filter cover (2) in place.



MAINTENANCE SCHEDULE



WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

Operation	Daily	Weekly	Monthly	Every 3 Months
Check Oil Level	Х			
Drain Tank	Х			
Check Air Filter		Х		
Check Safety Valve		Х		
Clean Unit			Х	
Check Belt Tension			Х	
Change Oil				X



IMPORTANT: Change oil after the first fifty (50) hours of operation. Then perform oil changes every three (3) months.

Care and Cleaning



WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

- Keep all surfaces clear of debris and dirt.
- Do not attempt to clean the unit while running. Turn off the unit, disconnect it from the mains, and allow the unit to cool down.
- Check the air filter weekly to see if it needs to be cleaned. Remove the filter element. Use hot, soapy water to clean the filter and allow the filter to dry before reinstalling and returning the unit to active duty. Replace a filter that cannot be cleaned.

Troubleshooting

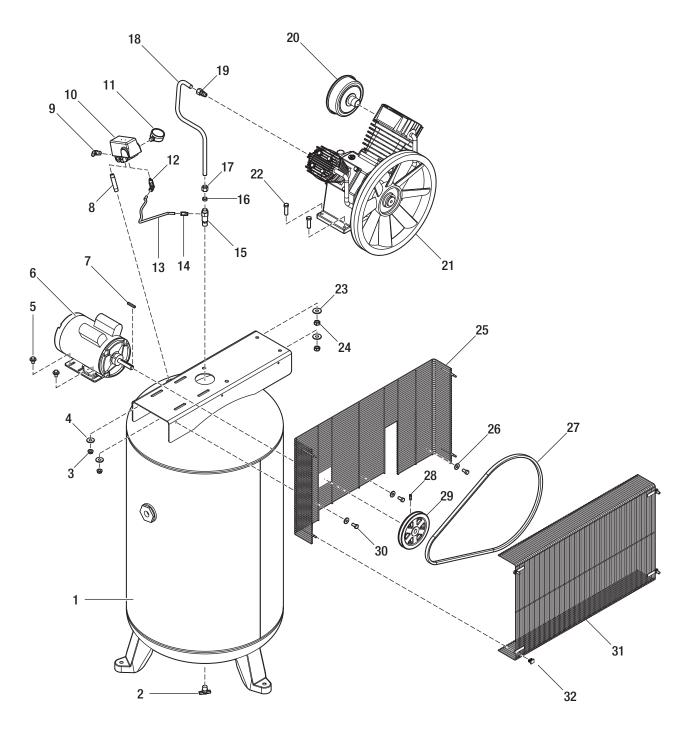
Problem	Possible Cause	Solution		
The discharge pressure is low.	 The air demand exceeds the pump capacity. 	□ Reduce the air demand or use a compressor with more capacity.		
	□ The air intake is restricted.	 Clean or replace the air filter element. 		
	 There are air leaks in the fittings, tubing on the compressor, or the plumbing outside the unit. 	 Listen for escaping air. Apply soap solution to all fittings and connections. Bubbles will appear at points of leakage. Tighten or replace leaking fittings or connections. Use pipe thread sealant. 		
	There are blown gaskets.	 Replace any gaskets proven faulty on inspection. 		
	 There are leaking or damaged valves. 	 Remove the head and inspect for valve breakage, misaligned valves, damaged valve seats, etc. Replace defective parts and reassemble. Install a new head gasket each time the head is removed. 		
The pump is overheating and causing the air filter	 The insulating gasket between the filter and the head is missing. 	□ Install the gasket.		
to melt.	 There are broken valves/blown gaskets. 	 Replace the valves or install the new gasket. 		
The air compressor unit is making excessive noise	• The motor pulley or the flywheel is loose.	□ Tighten the pulley/flywheel clamp bolts and the set-screws.		
(a knocking sound).	 The fasteners on the pump or the motor are loose. 	Tighten the fasteners.		
	□ There is no oil in the crankcase.	 Check for proper oil level; if the oil level is low, check for possible damage to the bearings. Dirty oil can cause excessive wear. 		
	□ The connecting rod is worn.	 Replace the connecting rod. Maintain the oil level and change the oil more frequently. 		
	 The piston pin bores are worn. 	 Remove the piston assemblies from the compressor and inspect for excess wear. Replace the excessively worn piston pin or pistons, as required. Maintain the oil level and change the oil more frequently. 		
	 The piston is hitting the valve plate. 	 Remove the compressor head and the valve plate and inspect for carbon deposits or other foreign matter on the top of the piston. Replace the head and the valve plate using the new gasket. See the Lubrication section for the recommended oil type. 		
	 There is a noisy check valve in the compressor system. 	 Replace the check valve. Do not disassemble the check valve with air pressure in the tank. 		
There is a large quantity of oil in the discharge air.	□ The piston rings are worn.	 Replace with new rings. Maintain the oil level and change the oil more frequently. 		
NOTE: In an oil lubricated compressor there will	 The compressor's air intake is restricted. 	 Clean or replace the filter. Check for other restrictions in the intake system. 		
always be a small amount of oil in the air stream.	 There is excessive oil in the compressor. 	 Drain oil down to the correct full level. 		
	□ The oil viscosity is wrong.	□ Only use Mobil 1 [®] 10W-30.		
There is water in discharge air/tank.	 This is normal during operation. The amount of water increases with humid weather. 	 Drain the tank more often. At least daily. Add a filter to reduce the amount of water in the air line. 		
The pressure switch does not release air when the unit shuts off.	 The unloader valve on the pressure switch is malfunctioning. 	 Replace the unloader value if it does not release the pressure for a short period of time when the unit shuts off. Do not disas- semble the check value with air pressure in the tank. 		

Troubleshooting (continued)

Problem	Po	ssible Cause	Solution		
The motor hums and runs slowly, or the motor does not run at all.		The voltage is low.		Check incoming voltage. It should be approximately 240 volts. The motor will not run properly on 208 volts. Low voltage could be due to wires (from electrical source to compressor) being too small in diameter and/or too long. Have a qualified electrician check these conditions and make repairs as needed.	
		There are too many devices on the same circuit.		Limit the circuit to the use of the compressor only.	
		The electrical connections are loose.		Check all the electrical connections.	
		The pressure switch is malfunctioning - the contacts will not close.		Replace the pressure switch.	
		The check valve is malfunctioning.		Replace the check valve. Do not disassemble the check valve with air pressure in the tank.	
		The unloader valve on the pressure switch is defective.		Replace the unloader valve.	
		The motor capacitor(s) are defective.		Replace the capacitor(s).	
		The motor is defective.		Replace the motor.	
The reset mechanism cuts out repeatedly or the circuit breaker trips		There is not proper ventilation for the air compressor unit, or the room temperature too high.		Move the compressor to a well-ventilated area.	
repeatedly.		There are too many devices on the same circuit.		Limit the circuit to the use of only the air compressor.	
		The air intake is restricted.		Clean or replace the air filter element.	
		The electrical connections are loose.		Check all the electrical connections.	
		The pressure switch shut-off pressure is set too high.		Replace the pressure switch.	
		The check valve is malfunctioning.		Replace the check valve. Do not disassemble the check valve with air pressure in the tank.	
		The unloader valve on the pressure switch is defective.		Replace the unloader valve.	
		The motor capacitor(s) are defective.		Replace the capacitor(s).	
		The motor is defective.		Replace the motor.	
The tank does not hold pressure when the compressor is off and the		There are air leaks in the fittings, tubing on the compressor, or the plumbing outside the unit.		Listen for escaping air. Apply soap solution to all fittings and connections. Bubbles will appear at points of leakage. Tighten or replace leaking fittings or connections. Use pipe thread sealant.	
shut off valve is closed.		The check valve is worn.		Replace the check valve. Do not disassemble the check valve with air pressure in the tank.	
		Check the tank for cracks or pin holes.		Replace the tank. Never try to repair a damaged tank.	
The pressure switch continuously blows air out of the unloader valve.		The check valve is malfunctioning.		Replace the check valve if the unloader valve on the pressure switch bleeds off constantly when the unit shuts off. Do not disassemble the check valve with air pressure in the tank.	
There is excessive vibration.		The fasteners on the pump or the motor are loose.		Tighten the fasteners.	
		The belt needs to be replaced.		Replace the belt. Make sure to use the correct size.	
		The belt needs to be aligned.		Align the flywheel and the pulley.	

Service Parts - Compressor

MODEL HS518102

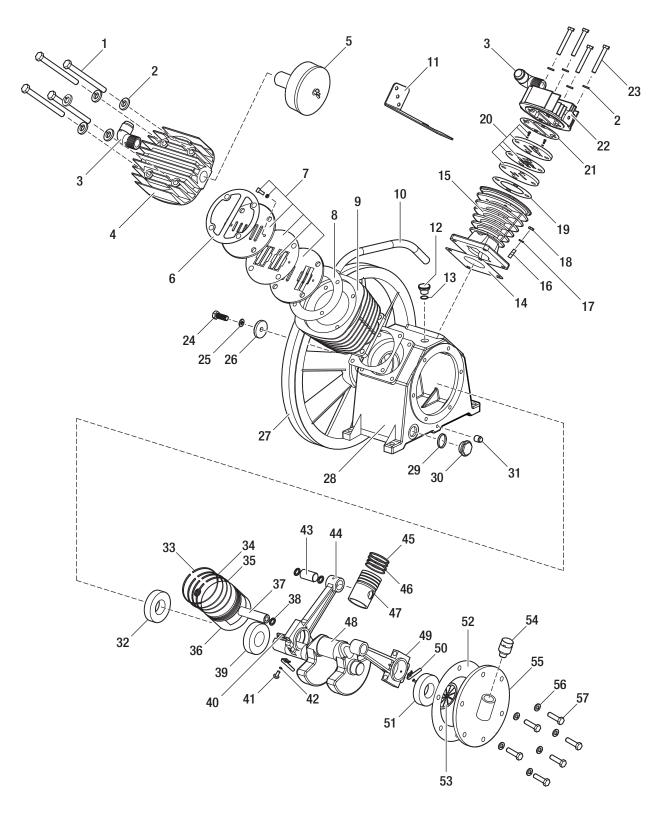


Service Parts - Compressor (continued)

Part	Description	Part Number	Quantity
1	Tank	AR210500CG	1
2	Drain valve	ST127700AV	1
3	Nut	ST146001AV	4
4	Washer	ST070916AV	4
5	Hex head screw	ST016000AV	4
6	Electric motor	MC035700IP	1
7	Key (included with motor, not available separately)		1
8	Pipe nipple	HF002401AV	1
9	ASME Safety valve	V-215200AV	1
10	Pressure switch	CW218000AV	1
11	Gauge	GA031900AV	1
12	Unloader valve	CW210001AV	1
13	Unloader tube	ST117802AV	1
14	Push fitting	ST081301AV	1
15	Check valve	CV221503SJ	1
16	Ferrule	ST032900AV	1
17	Compression nut	ST033001AV	1
18	Exhaust tube	HS015200AP	1
19	Compression fitting	ST072019AV	1
20	Air filter	DP500056AV	1
21	Pump	HS7101	1
22	Hex head screw	ST016000AV	4
23	Washer	ST077303AV	4
24	Nut		4
25	Beltguard back	BG307400AV	1
26	Washer	ST011200AV	4
27	Belt	BT009701AV	1
28	Set screw (included with motor pulley, not available separately)		1
29	Motor pulley	PU009797AV	1
30	Self-tapping bolt	ST016500AV	4
31	Beltguard front	BG307500AV	1
32	Plastic Clip	ST199700AV	4
33	Motor cord (not shown)	EC013500AV	1
34	Air filter element (not shown)	HS050071AV	1
35	Strain relief (not shown)	ST073108AV	1
36	Strain relief screw (not shown)	ST074407AV	1
37	General warning decal set (not shown)	DK747600AV	1
38	Moving and mounting warning decal (not shown)	DK364602AV	1
	Not available		

Service Parts - Pump

MODEL HS050000AV



Service Parts - Pump (continued)

Part	Description	Part Number	Qty
1	Hex Capscrew, M10 x 80	&	4
2	Spring washer, M10	&	8
3	Intercooler fitting without		
	tapped hole	HS050053AV	2
4	Cylinder head (Low Pressure)	HS050054AV 🛠	1
5	Air filter assembly	DP500056AV	1
6	Head gasket (LP)	\$\$. ◆	1
7	Valve plate assembly	8	1
8	Valve plate - cylinder gasket (LP)	∷ ∻	1
9	Cylinder (LP)	HS050065AV	1
10	Intercooler assembly with		
	flare nuts	HS050066AV	1
11	Beltguard bracket	HS050059AV	1
12	Fill plug	Δ	1
13	Fill plug o-ring	Δ	1
14	Cylinder-crankcase packing	*	2
15	Cylinder (High Pressure)	HS050077AV	1
16	Stud bolt	&	8
17	Spring washer	&	8
18	Nut	&	8
19	Valve plate - cylinder gasket (HP)	*▼	1
20	Valve plate assembly (HP)	▼	1
21	Head gasket (HP)	* ▼	1
22	Cylinder head (HP)	HS050076AV	1
23	Hex bolt, M10x65	æ	4
24	Bolt, M12	▲ �	1
25	Lock washer	▲ �	1
26	Flat washer	▲ �	1
27	Flywheel		1
28	Crankcase		1
29	Oil level gauge o-ring	* *	1
30	Oil level gauge	•	1
31	1/4 in. NPT Drain plug		1
32	Oil seal	HS050042AV *	1
33	Compression ring	\bigtriangledown	1
34	Compression ring	\bigtriangledown	1
35	Oil ring	\bigtriangledown	2
36	Piston	☆	1
37	Wrist pin	☆	1
38	Retainer clip	☆×	2
39	Ball bearing	•	1

Part	Description	Part Number	Qty
40	Кеу		1
41	Dipper retaining screw, M4x10		2
42	Lock washer		2
43	Wrist pin	×	1
44	Connecting rod (HP)		1
45	Compression ring	*	3
46	Oil ring	*	1
47	Piston	×	1
48	Crankshaft		1
49	Connecting rod	0	1
50	Dipper		2
51	Ball bearing	•	1
52	Bearing cap gasket	•*•	1
53	Rear bearing plate		1
54	Breather assembly	HS050070AV	1
55	Bearing cap		1
56	Copper washer	&	1
57	Bolt	&	1
58	Air filter element (not shown)	HS050071AV	1
REPLAC	EMENT PARTS KITS		
	Flywheel bolt kit	DP500040AV	
	Flywheel with key	HS050041AV	
•	Crankshaft assembly with		
	bearings	HS050043AV	
•	Oil level gauge with o-ring	DP400046AV	
	Valve plate kit (HP)	HS050075AV	
*	Piston ring kit (HP)	HS050063AV	
×	Piston set (HP)	HS050062AV	
*	Gasket, oil seal and o-ring kit (except valve plate to plate gasket)	HS050068AV	
\triangle	Oil cap with o-ring	DP500046AV	
	High pressure connecting rod assembly with dipper	HS050047AV	
0	Low pressure connecting rod assembly with dipper	HS050048AV	
\bigtriangledown	Piston ring kit (LP)	HS050060AV	
☆	Piston set (LP)	HS050061AV	
8	Valve plate kit (LP)	HS050064AV	
\$	Assembly fastener set	HS050069AV	
	Not available		



Questions, problems, missing parts? Before returning to the store, call Husky Customer Service 8 a.m.-6 p.m., EST, Monday-Friday

1-888-43-HUSKY

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Retain this manual for future use.

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