CHAMPION

OPERATION/MAINTENANCE MANUAL & PARTS LIST

Gasoline Engine Air Compressor/Generator
Featuring the RV-15 Compressor Pump

⚠WARNING

THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION AND SHOULD ALWAYS BE AVAILABLE TO THOSE PERSONNEL OPERATING THIS UNIT.
READ, UNDERSTAND AND RETAIN ALL INSTRUCTIONS BEFORE OPERATING THIS EQUIPMENT TO PREVENT INJURY OR EQUIPMENT DAMAGE.

Model

HGRV7-LPH-G

37-1369-E-051316

MAINTAIN COMPRESSOR RELIABILITY AND PERFORMANCE WITH GENUINE CHAMPION COMPRESSOR PARTS AND SUPPORT SERVICES

Champion Compressor genuine parts, manufactured to design tolerances, are developed for optimum dependability – specifically for Champion compressor systems. Design and material innovations are the result of years of experience with hundreds of different compressor applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Champion Compressor distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the air compressor industry.

Your authorized distributor can support your Champion air compressor with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. A full line of factory tested CHAMPLUB™ compressor lubricants specifically formulated for use in Champion compressors.
3. Repair and maintenance kits designed with the necessary parts to simplify servicing your compressor.

Authorized distributor service technicians are factory trained and skilled in compressor maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

TO CONTACT CHAMPION OR LOCATE YOUR LOCAL DISTRIBUTOR:

VISIT: WWW.CHAMPIONPNEUMATIC.COM/CONTACTUS.ASPX

OR

CALL: (217)222-5400

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Compressor MODEL, HORSEPOWER and SERIAL NUMBER (see nameplate on unit). All orders for Parts should be placed with the nearest authorized distributor.

Order by part number and description. Reference numbers are for your convenience only.

CONTENTS

ALL INFORMATION, ILLUSTRATIONS AND SPECIFICATIONS IN THIS MANUAL ARE BASED ON THE LATEST INFORMATION AVAILABLE AT THE TIME OF PUBLICATION. THE RIGHT IS RESERVED TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

SAFETY AND OPERATION PRECAUTIONS

Because an air compressor is a piece of machinery with moving and rotating parts, the same precautions should be observed as with any piece of machinery of this type where carelessness in operation or maintenance is hazardous to personnel. In addition to the many obvious safety rules that should be followed with this type of machinery, the additional safety precautions as listed below must be observed:

1. Read all instructions completely before operating air compressor or unit.
2. For installation, follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
3. Do not attempt to remove any compressor parts without first relieving the entire system of pressure.
4. Do not attempt to service any part while machine is in an operational mode.
5. Do not operate the compressor at pressures in excess of its rating.
6. Do not operate compressor at speeds in excess of its rating.
7. Periodically check all safety devices for proper operation. Do not change pressure setting or restrict operation in any way.
8. Be sure no tools, or rags or loose parts are left on the compressor or drive parts.
9. Do not use flammable solvents for cleaning the air inlet filter or element and other parts.
10. Exercise cleanliness during maintenance and when making repairs. Keep dirt away from parts by covering parts and exposed openings with clean cloth or Kraft paper.
11. Do not operate the compressor without guards, shields and screens in place.
12. Do not install a shut-off valve in the discharge line, unless a pressure relief valve, of proper design and size, is installed in the line between the compressor unit and shut-off valve.
13. Do not operate compressor in areas where there is a possibility of ingesting flammable or toxic fumes.
14. Inspect unit daily to observe and correct any unsafe operating conditions found.
15. Do not “play around” with compressed air, nor direct air stream at body, because this can cause injuries.
16. Compressed air from this machine absolutely must not be used for food processing or breathing air without adequate downstream filters, purifiers and controls.
17. Always use an air pressure regulating device at the point of use, and do not use air pressure greater than marked maximum pressure of attachment.
18. Check hoses for weak or worn condition before each use and make certain that all connections are secure.
19. Always wear safety glasses when using a compressed air blow gun.

The user of any air compressor package manufactured by Champion is hereby warned that failure to follow the preceding Safety and Operation Precautions can result in injuries or equipment damage. However, Champion does not state as fact or does not mean to imply that the preceding list of Safety and Operating Precautions is all inclusive, and further that the observance of this list will prevent all injuries or equipment damage.

RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word--DANGER, WARNING or CAUTION--is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

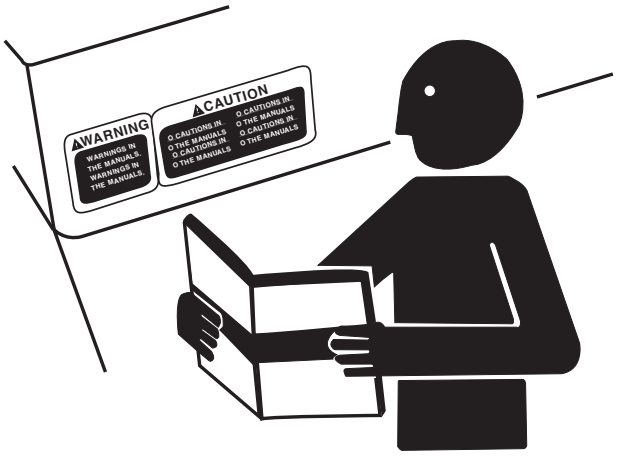
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and safety signs on your machine. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your dealer.

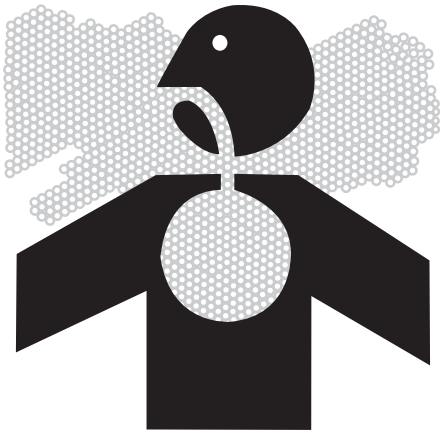
Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.



CARBON MONOXIDE - POISONOUS GAS



Use unit outdoors, away from open windows, vents, or doors.

Unit exhaust contains carbon monoxide - a poisonous gas that can kill you. You CAN NOT smell or see this gas.

Never use the unit in enclosed or partially-enclosed spaces. The unit can produce high levels of carbon monoxide very quickly. When you use this unit, remember that you cannot smell or see carbon monoxide. Even if you can't smell exhaust fumes, you may still be exposed to carbon monoxide.

If you start to feel sick, dizzy, or weak while using the unit, get to fresh air RIGHT AWAY. DO NOT DELAY. The carbon monoxide from the unit can rapidly lead to full incapacitation and death.

If you experience serious symptoms, get medical attention immediately. Inform medical staff that carbon monoxide poisoning is suspected. If you experienced symptoms while indoors, have someone call the fire department to determine when it is safe to re-enter the building.

Never operate the unit in an explosive atmosphere, near combustible materials or where ventilation is not sufficient to carry away exhaust fumes. Exhaust fumes can cause serious injury or death.

NEVER use the unit indoors, including in homes, garages, basements, crawl spaces, and other enclosed or partially-enclosed areas, even with ventilation. Opening doors and windows or using fans will not prevent carbon monoxide build-up in the home.

Follow the instructions that come with your unit. Locate the unit outdoors and away from doors, windows, and vents that could allow the carbon monoxide gas to come indoors.

ONLY run unit outdoors and away from air intakes.

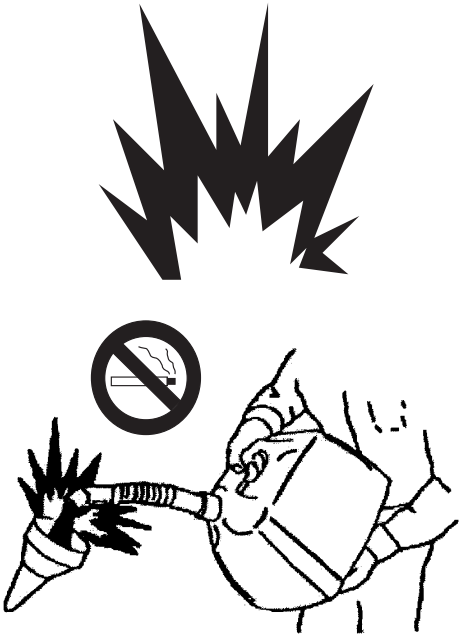
NEVER run unit inside homes, garages, sheds, or other semi-enclosed spaces. These spaces can trap poisonous gases EVEN IF you run a fan or open doors and windows.

If you start to feel sick, dizzy, or weak while using the unit, shut if off and get fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up in your home, according to the manufacturer's installation instructions. The carbon monoxide alarms should be certified to the requirements of the latest safety standards for carbon monoxide alarms. (UL 2034, IAS 6-96, or CSA 6.19.01).

Test your carbon monoxide alarm frequently and replace dead batteries.

SAFETY WARNING WHEN REFUELING



Injury or death may occur as a result of improper fueling. Do not smoke while filling engine fuel tank.

Always refuel slowly to avoid the possibility of spilled fuel which may cause a risk of fire.

Gasoline is extremely flammable and its vapors can explode if ignited.

Observe all safety regulations for the safe handling of fuel. Handle fuel in safety containers. If the container does not have a spout, use a funnel.

Do not overfill the fuel tank, leave room for the fuel to expand.

Fill the tank only on an area of bare ground. While fueling the tank, keep heat, sparks and open flame away. Carefully clean up any spilled fuel before starting engine.

Always fill fuel tank in an area with plenty of ventilation to avoid inhaling dangerous fumes.

NEVER store fuel for your unit in the home. Gasoline, propane, kerosene, and other flammable liquids should be stored outside of living areas in properly-labeled, non-glass safety containers. Do not store them near a fuel-burning appliance, such as a natural gas water heater in a garage. If the fuel is spilled or the container is not sealed properly, invisible vapors from the fuel can travel along the ground and can be ignited by the appliance's pilot light or by arcs from electric switches in the appliance.

ELECTRICAL HAZARDS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

DANGER - IMPROPER CONNECTION OF THE EQUIPMENT-GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTROCUTION. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICE PERSON IF YOU ARE INDOUBT AS TO WHETHER THE UNIT IS PROPERLY GROUNDED.

This unit is equipped with a grounding terminal for your protection. Always complete the ground path from the unit to an external ground source as instructed in the section labeled “Grounding Instructions” in the Preparation section of this manual.

The unit is a potential source of electrical shock if not kept dry. Keep the unit dry and do not use in rain or wet conditions. To protect from moisture, operate it on a dry surface under an open, canopy-like structure. Dry your hands if wet before touching the unit.

Plug appliances directly into the unit. Or, use a heavy duty, outdoor-rated extension cord that is rated (in watts or amps) at least equal to the sum of the connected appliance loads. Check that the entire cord is free of cuts or tears and that the plug has all three prongs, especially a grounding pin.

NEVER try to power the house wiring by plugging the unit into a wall outlet, a practice known as “back feeding”. This is an extremely dangerous practice that presents an electrocution risk to utility workers and neighbors served by the same utility transformer. It also bypasses some of the built-in household circuit protection devices.

If you must connect the unit to the house wiring to power appliances, have a qualified electrician install the appropriate equipment in accordance with local electrical codes. Or, check with your utility company to see if it can install an appropriate power transfer switch.

For power outages, permanently installed stationary units are better suited for providing backup power to the home. Even a properly connected portable unit can become overloaded. This may result in overheating or stressing the unit components, possibly leading to a unit failure.

RISK OF FIRE OR EXPLOSION

Serious injury or death may occur from normal sparks in the engine ignition system or engine exhaust/muffler. Always operate the unit in a well ventilated area free of flammable vapors, combustible dust, gases or other combustible materials.

DO NOT SMOKE if spraying flammable material. Locate the unit at least 20 feet away from the spray area. (An additional hose may be required.)

Never fill the engine fuel tank while the engine is running or hot. Allow the engine to cool two minutes before refueling. Do not refuel indoors or in a poorly ventilated area.

Do not operate the unit if gasoline is spilled. Wipe the unit clean and move it away from the spill. Avoid creating any ignition until the gasoline has evaporated.

Do not store the unit near an open flame or any equipment such as a stove, furnace, water heater, etc. which utilizes a pilot light or sparking device.

A spark arrester must be added to the muffler of this engine if it is to be used on any forest covered, brush covered or grass covered unimproved land. The arrester must be maintained in effective working order by the operator.

Serious injury may occur if any of the unit's ventilation openings are restricted, causing the unit to overheat and start a fire. Never place objects against or on top of the unit. Operate the unit at least 12 inches away from any wall or obstruction that would restrict proper ventilation.

RISK OF BURSTING

Serious injury or death may occur from an air tank explosion if air tanks are not properly maintained. Drain air tank daily or after each use to prevent moisture buildup in the air tank.

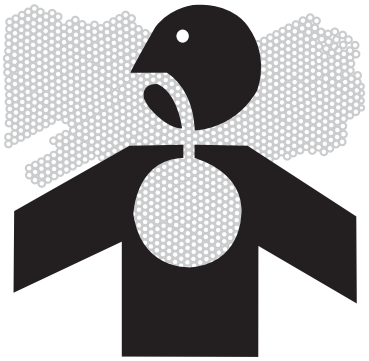
If air tank develops a leak, replace the air tank immediately. Never repair, weld or make modifications to the air tank or its attachments. Use only genuine manufacturer repair parts for your unit. Never make adjustments to the factory set pressures.

Serious injury may occur from the unit malfunction or exploding accessories if incorrect system components, attachments or accessories are used. Never exceed manufacturers maximum allowable pressure rating of attachments.

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

Never use the unit to inflate small, low pressure objects such as toys.

RISK OF BREATHING



Serious injury or death could occur from inhaling compressed air. The air stream may contain carbon monoxide, toxic vapors or solid particles. Never inhale air from the unit either directly or from a breathing device connected to the unit.

Serious injury or death may occur from inhaling engine exhaust. This unit was designed for outdoor use. Never operate this unit in an enclosed area. Always make certain there is adequate ventilation (fresh outside air) for breathing and combustion. This will prevent the buildup of dangerous carbon monoxide gases. Beware of poorly ventilated areas, or areas with inadequate exhaust fans.

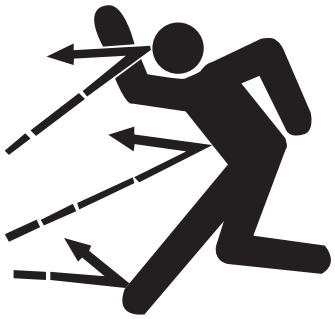
Sprayed materials such as paint, solvents, paint remover, insecticides, weed killers, etc. contain harmful vapors and poisons. Operate the unit only in a well ventilated area. Follow all safety instructions provided with the materials you are spraying. Use of a respirator may be required when working with some materials.

RISK OF BURNS

Serious injury could occur from touching exposed metal parts. These areas can remain hot for some time after the unit is shutdown. Never allow any part of your body or other materials to make contact with any exposed metal parts on the unit.

Never allow any part of your body to contact the engine muffler, compressor head or adjacent areas.

RISK OF FLYING OBJECTS



Soft tissue damage can occur from the compressed air stream. Always wear safety glasses to shield the eyes from flying debris.

Never point the air stream at any part of your body, anyone else or animals.

Never leave pressurized air in the unit. Shut off the unit and relieve pressure when storing or attempting maintenance.

Serious injury can occur from loose debris being propelled at a high speed from the compressed air stream. Always maintain a safe distance from people and animals while operating the unit.

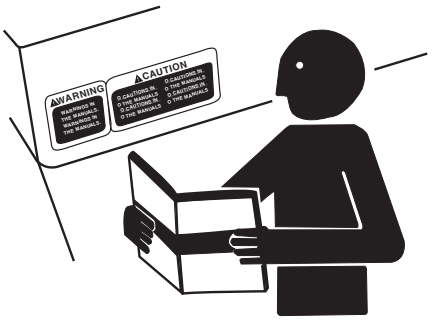
Do not move the unit while air tank is under pressure. Do not attempt to move the unit by pulling on the hose.

RISK FROM MOVING PARTS

Risk of bodily injury from moving parts. Before performing maintenance, always turn off the unit. Bleed pressure from the air hose and disconnect spark plug wire to prevent engine from starting unexpectedly. All repairs to the unit should be made by an Authorized Service person.

Do not operate without protective covers/guards. Always turn off the unit before removing any guard. Replace damaged covers/guards before using the unit.

IMPORTANT SAFETY INSTRUCTIONS



WARNING: To reduce the risk of injury, read this operator's manual completely before using. When using this product, the following basic precautions should always be followed:

1. Risk from Negligence: Risk of injury from negligent use. Never allow children or adolescents to operate this unit! Stay alert-watch what you are doing. Do not operate the unit when fatigued or under the influence of alcohol or drugs. Know how to stop the unit. Be thoroughly familiar with controls.
2. Risk of Unit Damage: Risk of major repair. Do not operate the unit without an air filter. Do not operate the unit in a corrosive environment. Always operate the unit in a stable, secure position to prevent the unit from falling. Follow all maintenance instructions listed in this manual.
3. When starting the unit, using recoil starter grip, be sure that nothing is in a position to be hit by the operator's hand or arm. Be sure the switch on electric power tools is in the "OFF" position before plugging them into the unit.
4. Do not operate the unit or any electrical tool in any area where water or similar materials constitute an electrical hazard to the operator. Do not operate on wet surfaces, in rain or in snow.
5. Always be sure that the unit is on secure footing so that it cannot slide or shift around, endangering workers.
6. Avoid contacting the hot exhaust manifold, muffler or cylinder(s).
7. Keep clear of all rotating parts.
8. Unless the tool or appliance is double insulated, it must be grounded through a properly grounded receptacle. Tools and appliances which have 3 prong plugs must be plugged into extension cords and electrical receptacles with 3 holes. Before operating any electrical item, be sure it is in good repair.
9. Beware of using this equipment in confined spaces. Confined spaces, without sufficient fresh air ventilation, can contain dangerous gases. Running gasoline engines in such environments can lead to deadly explosions and/or asphyxiation.
10. Use extreme caution when lifting this unit. This unit is heavy so proper lifting techniques should be used.

SAVE THESE INSTRUCTIONS

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

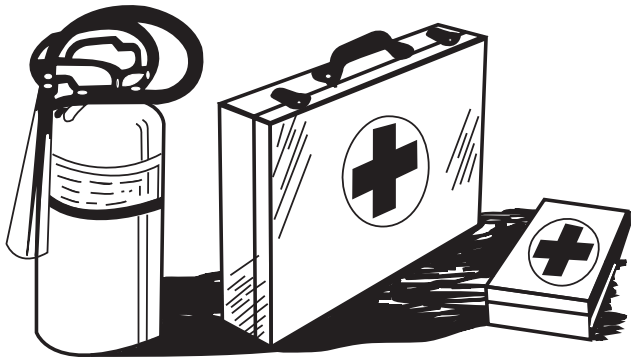
Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

PREPARE FOR EMERGENCIES

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

Be prepared if a fire starts.



INSPECT UNIT

Be sure all covers, guards and shields are tight and in place.

Locate all operating controls and safety labels.

Inspect power cord for damage before using. There is a hazard of electrical shock from crushing, cutting or heat damage.

SERVICE UNIT SAFELY

Before servicing the unit, disconnect all equipment and battery (if equipped) and allow unit to cool down.

Service unit in a clean dry flat area.

SAFETY SIGNS

MAINTENANCE INSTRUCTIONS / INSTRUCCIONES DE MANTENIMIENTO

REFER TO INSTRUCTION MANUAL FOR DETAILED INSTRUCTIONS.

If unit is operated in an excessively dirty or dusty area, increase the frequency of all checks.

Daily:
- •Check for proper oil level(s) and oil leaks.
- •Check engine air filter. (if applicable)
- •Drain moisture from tank(s) daily or after each use.
- •Ensure all safety guards are correctly & securely attached.

Weekly:
- •Clean the cooling surfaces of the compressor.
- •Inspect air intake filter.
- •Check safety valves by pulling on rings.

Monthly:
- •Check system for air leaks.
- •Check belt tension.

Every 200 hours:
- •Change pump oil.
- •Replace air filter.

REFER TO ENGINE MANUAL FOR RECOMMENDED ENGINE MAINTENANCE.

LEA LAS INSTRUCCIONES PARA INSTRUCCIONES PARTICULARES.

Si la unidad está usado en un lugar bien sucio o de polvo, haga la frecuencia de los examenes más.

Cada día:
- •Inspecciòne para el nivel de aceite y vías de aceite.
- •Inspecciòne el filtro de aire (si hay).
- •Drene la humidad de los tanques cada día o despúes de usar.
- •Asegúrese que las guardas de seguridad son acompañados seguridademente y correctamente.

Cada semana:
- •Limpie las superficies enfries del compresor.
- •Inspecciòne el filtro del aire.
- •Inspecciòne las válvulas con tirando los anillos.

Cada mes:
- •Inspecciòne la sistema para vías.
- •Inspecciòne la tensión de la correa.

Cada dos cientos horas:
- •Cambie el aceite de la bomba.
- •Reemplace filto del aire.

LEA USTED EL MANUAL DEL MOTOR PARA EL MANTENIMIENTO RECOMENDADO DEL MOTOR.

34-1285/091012

34-1285 LOCATION: BASEPLATE

⚠WARNING/ADVERTENCIA

RISK OF BURNS
Muffler and adjacent areas may exceed 150°F.

RIESGO DE QUEMAR
El amortiguador y las areas adyacentes pueden Tener temperaturas por arriba de 65°C.

34-0598/07262012

34-0598 LOCATION: ENGINE

⚠CAUTION/PRECAUCIÓN

RISK OF FIRE
Do not add fuel when product is operating. Allow engine to cool for two (2) minutes before refueling.

RIESGO DE FUEGE
No ponga combustible cuando el producto este en operacion. Permita que el motor se enfrie por 2 minutos antes de reablastecer de combustible.

34-0599/07262012

34-0599 LOCATION: ENGINE

⚠WARNING / ⚠ADVERTENCIA

READ ENTIRE INSTRUCTION MANUAL BEFORE OPERATING AIR COMPRESSOR!

RISK OF FIRE OR EXPLOSION!
- Do not spray flammable liquid in a confined area. Spray area must be well ventilated. Do not smoke while spraying or spray where spark or flame is present. Keep compressors as far from spraying area as possible.
- When a combustible liquid is sprayed there may be danger of fire or explosion, especially in a closed area.
- Arcing parts. Keep the unit at least 6m away from explosive vapors.
- Engine creates sparks. Do not operate in flammable environment. Follow all instructions and warnings supplied with material to be sprayed.
- Do not smoke while filling engine fuel tank. Follow all fueling instructions in operator's manual.
- Air tanks may explode if not properly maintained. To prevent weakening of tanks caused by corrosion, drain tanks after each use.
- This equipment incorporates parts, such as snap switches, receptacles, produce arcs or sparks and, therefore, when located in a garage, it should be in a room or enclosure provided for the purpose, or should be 18 inches (457mm) or more above the floor.

RISK OF ASPHYXIATION!
- Never use compressed air for breathing or respiration!
- Gasoline engines produce carbon monoxide; a poisonous, odorless gas which may cause death! Do not start or operate compressor in an enclosed area, Area must be well ventilated.

RISK OF SEVERE INJURY!
- Before servicing gasoline unit, disconnect spark plug wire to prevent unit from starting unexpectedly.
- Wear safety glasses/face shields at all times.
- Never operate with belguard removed. If guard becomes damaged, repair or replace before operating.
- Do not remove any air line or tank connections before relieving air pressure in the tank(s).
- Loose debris can be propelled at high speeds. Never direct air stream towards yourself or others.

RISK OF BURNS!
- Do not touch compressor head, discharge lines or engine components, Cool before servicing.

RISK OF DAMAGING COMPRESSOR AND CAUSING INJURY!
- Do not operate at pressure or speed in excess of manufacturer's recommendations.
- Do not operate with components rated less than the pressure marked on the nameplate.

Follow required maintenance procedures and intervals listed in the operator's manual. Service should be performed only by qualified personnel. Compressor requires good ventilation to operate properly. Use only factory replacement parts.

FAILURE TO COMPLY WITH THESE WARNINGS WILL RESULT IN PERSONAL INJURY. DO NOT REMOVE THIS LABEL!

LEA USTED EL MANUAL DE INSTRUCCIONES ANTES DE USAR EL COMPRESOR DEL AIRE!

RIESGO DE INCENDIO O EXPLOSION!
- No rocie el liquido inflamable en una áred confinada la área para rociar tiene que ser bien ventilado. No fume cuando está rociando ni vocie donde hay incendio o centella. Ponga los compresores lejos de la area de vociar si es posible.
- Cuando un liquido inflamable está rociado hay posible peligro de incendio o explosión, especialmente en un lugar cerrado.
- Partes de arco. Ponga la unidad menos de 6m lejos de los vapores explosivos.
- El motor se causan las centellas. No use en un lugar inflamable. Siga usted las instrucciones y advertencias con el material para rociar.
- No fume cuando está llenando el tanque de combustible siga todas las instrucciones de combustible en el manual del operador.
- Los tanques del aire puede explotar si no se mantenga bien. Para evitar la debilitación de los tanques del corrosión, drene los tanques cada uso.
- Este equipo tiene los partes com interruptor de resortes, receptaculos, se producen o centellas y por eso, cuándo está en un garaje, lebe estar en un cuarto o un encerramiento por este, o debe estar 18 pulgadas o (457 mm) o encima del suelo.

RIESGO DE LESIONES GRAVES!
- Antes de mantenerse la unidad gasolina, desconecte el hilo de la telegrafista para evitar la unidad a arrancar inesperadamente.

RIESGO DE QUEMADURAS!
- No toque la cabeza del compresor, líneas del descargo o partes del motor. Permita que se enfrie antes del servicio.

RIESGO DE ASFIXIA!
- Nunca se use el aire del compresor para respirar o respiración!
- El motor produce carbón monóxido un vapor tóxico un olor que se puede causar morir. No use o arranca un lugar encerrado. El área debe ser bien ventilado.

REISGO DE LESIONES!
- Lleve gafas de seguridad o blindaje todo el tiempo.
- Nunca opere sin cinturon de protección, Si el cinturon está dañado repare o reemplace antes de usarlo.
- Nunca saque cualquier línea del aire o conexione del tanque antes de eliminando del sion aire en los tanques.
- No dirija el rociado de alta presion hacia ninguna persona ni hacia usted mismo. Escombros se vuelan rapido.

RIESGO DE DAÑO DEL COMPRESOR O LESIONES!
- No opera a un presión o una velocidad más que se recomienda en el manual.
- No opera con partes clasifican menos de la presión que ha escrito en el plato de nombre.

Siga los procedimientos de mantenimiento y intervalos que se dicen en el manual de operador. Servicio debe hacer solemento por las personas calificados, Para funcionar correctamente, necesita un lugar bien ventilado. Use solamente partes para reemplacer de la fábrica.

SI NO SIGA USTED ESTAS ADVERTENCIAS PUEDE CAUSAR LESIONES. NO SAQUE LA ETIQUETA!

34-1615/091012

34-1615 LOCATION: BASEPLATE

⚠WARNING/ADVERTENCIA

RISK OF BURNS
Beware of Hot Surfaces. Allow unit to cool before servicing.

RIESGO DE QUEMADURA
Tenga ud cuidado de los superficies calientes. Permita que la unidad se enfrie antes de mantener.

34-1284/091012

34-1284 LOCATION: BASEPLATE

⚠DANGER / ⚠DANGER / ⚠PELIGRO

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

NEVER use inside a home or garage, EVEN IF doors and windows are open.

Only use OUTSIDE and far away from windows, doors, and vents.

L'utilisation d'un groupe électrogène à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES.

Le gaz d'échappement du groupe électrogène contient de l'oxyde de carbone. C'est un gaz toxique que l'on ne peut pas voir ou sentir.

Ne JAMAIS utiliser à l'intérieur d'une maison ou d'un garage, MÊME SI les portes et fenêtres s'ont ouvertes.

N'utiliser qu'à l'EXTÉRIEUR et bien éloigné des fenêtres, portes, et conduits d'aération.

Utilizando un generador adentro PUEDE MATARLE EN MINUTOS.

El escape de generador contiene monóxido de carbono. Este es un gas tóxico que usted no puede ver ni puede oler.

Nunca utilice dentro de un hogar ni el garaje, INCLUSO SI puertas y ventanas estén abiertas.

Solo utilice AFUERAS y lejos de ventanas abiertas, las puertas, y descargas.

34-1916/083012

34-1916

⚠WARNING / ADVERTENCIA

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION! A generator is a potential shock hazard which can result in serious injury or death.
- Generator must be kept dry.
- Do NOT operate unit with wet hands.
- Generator MUST be grounded before use. See operators manual for specific instructions.
- Do not use around water or expose to rain. Store indoors.

34-1616/091012

RIESGO DE CALAMBRE ELECTRICO O ELECTROCUCION! Un generador es un potencial riesgo de descarga que puede resultar en lesiones graves o muerte.
- Generadores tienen que mantener secos.
- No opere esta unidad con manos mojados.
- Generador TIENE que sea conectado a tierra antes de uso. Vea manual de operador para instrcciones especificos.
- No use cerca aqua ni tenga la unidad en la lluvia. Débe almecenaria dentor.

34-1616 LOCATION: GENERATOR

OPERATING INSTRUCTIONS FOR GASOLINE AIR COMPRESSORS / INSTRUCCIONES DE OPERACION PARA COMPRESORES DEL AIRE GASOLINA

⚠WARNING / ⚠ADVERTENCIA

AIR COMPRESSORS CAN CAUSE SERIOUS INJURY OR DEATH IF OPERATED IMPROPERLY. BEFORE OPERATING THIS COMPRESSOR, READ AND UNDERSTAND THE ENTIRE OPERATOR'S MANUAL AND FOLLOW ALL SAFETY PRECAUTIONS.

1. Flip the toggle on top of the pilot valve to the upright position. This provides a loadless start. The compressor will unload and allow the engine to start easier.
2. Start the engine. (Refer to Engine Manual accompanying this unit.)
3. When engine has run for 1-2 minutes, flip toggle back to original position.
4. Stop the engine. (Refer to Engine Manual accompanying this unit.)
5. Drain air from the tanks by releasing air with an attached air tool or by pulling on the safety relief valve rings.
6. Once pressure in the tanks register under 10 pounds, open the drain valve under each tank to drain any moisture.

LOS COMPRESORES DEL AIRE PUEDEN CUSAR LESIONES GRAVES LA MUERTE SI SE USE INCORRECTEMENTE. ANTES DE USAR EL COMPRESOR. LEA Y ENTIENDA TODAS LAS INSTRUCCIONES EN EL MANUAL Y OBSERVE LAS PRECAUCIONES DE SEGURIDAD.

1. Eche la palanca acodada encima de la válvula pilota a la posición vertical. Con este hay un arrado lue sin carga. El compresor va a descargar y permitir el motor a arrancar facilmente.
2. Arranque el motor. (Lea el manual del motor que está acompañando está unidad)
3. Cuanda la unidad funciona para 1-2 minutos, mueva la planaca acodada a la posicion original.
4. Cierre el motor. (Lea el manual que está acompañado está unidad)
5. Drene los tanques del aire con un instrumento acompañado del aire o tire los anillos de la válvula segura.
6. Cuando la presión en los tanques es menos de diez libras, abre la válvula debayo de cada tanque para des aguar cualquier humedad.

34-1286/07262012

34-1286 LOCATION: BELTGUARD

WARRANTY

Champion RV Series compressors are the result of advanced engineering and skilled manufacturing. To be assured of receiving maximum service from this machine the owner must exercise care in its operation and maintenance. This book is written to give the operator and maintenance department essential information for day-to-day operation, maintenance and adjustment. Careful adherence to these instructions will result in economical operation and minimum downtime.

EXPRESS LIMITED WARRANTY

CHAMPION warrants each new air compressor unit manufactured by CHAMPION to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months from date of installation or fifteen (15) months from date of shipment by CHAMPION or CHAMPION distributor, whichever may occur first.

The CHAMPION/CENTURION 2-Stage RV15A series pumps carry a 2 year (24 months from date of installation or 30 months from date of shipment by CHAMPION) warranty on the compressor pump, excluding head valves, which are warranted for the first year only. This warranty applies only to the original pump on a complete RV series compressor unit. Replacement basic pumps are warranted for the balance of the original 2 year warranty period, or a minimum of 1 year. Air receiver tank also carries the 2 year warranty, provided the unit is properly installed on Champion vibro-isolator pads.

CHAMPION makes no warranty in respect to components and accessories furnished to CHAMPION by third parties, such as ELECTRIC MOTORS, GASOLINE ENGINES and CONTROLS, which are warranted only to the extent of the original manufacturer's warranty to CHAMPION. To have warranty consideration, electric motors must be equipped with thermal overload protection.

When a component is changed or replaced during the warranty period, the newly replaced item is warranted for only the remainder of the original warranty period.

Repair, replacement or refund in the manner and within the time provided shall constitute CHAMPION'S sole liability and your exclusive remedy resulting from any nonconformity or defect. CHAMPION SHALL NOT IN ANY EVENT BE LIABLE FOR ANY DAMAGES, WHETHER BASED ON CONTRACT, WARRANTY, NEGLIGENCE STRICT LIABILITY OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY CONSEQUENTIAL INCIDENTAL OR SPECIAL DAMAGES, ARISING WITH RESPECT TO THE EQUIPMENT OR ITS FAILURE TO OPERATE EVEN IF CHAMPION HAS BEE ADVISED OF THE POSSIBILITY THEREOF.

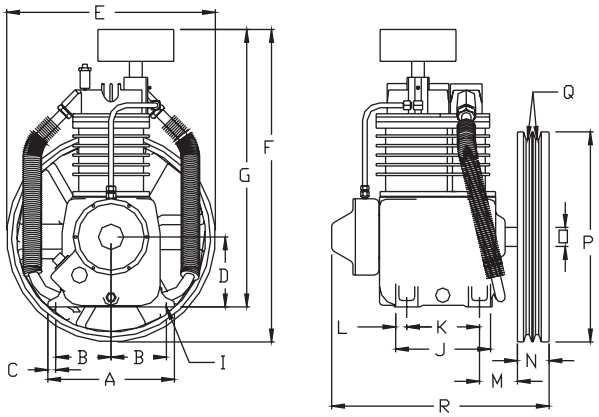
CHAMPION MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, EXCEPT THAT OF TITLE, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. NO SALESMAN OR OTHER REPRESENTATIVE OF CHAMPION HAS AUTHORITY TO MAKE ANY WARRANTY.

MANUFACTURER WARRANTY PERIODS

Honda Engine	3 years
Alternator	2 years

TWO STAGE AIR COMPRESSORS - MODEL RV15A

DIMENSIONS



C322-A (Ref. Drawing)

	ITEM	RV15A
A	Base-Width	10”
B	Bolt Down-Width	4-3/8”
C	Bolt Down to Edge	5/8”
D	Base to Crank CTR	5-1/2”
E	Overall Width	16-1/2”
F	Overall Height	24-1/2”
G	Base to Top	22”
I	Bolt Down Hole Dia.	15/32”
J	Base-Depth	7-1/2”
K	Bolt Down Depth	5-3/4”
L	Bolt Down to Edge	7/8”
M	Bolt Hole to Wheel (Max.)	3”
N	Flywheel Width	2-1/2”
O	Crank Diameter	1-5/16”
P	Flywheel Diameter	16-1/2”
Q	Flywheel Grooves	2VB
R	Overall Depth	17-1/2”

NOTE: H.P. Exhaust Opening 3/4” Tubing Flywheel Rotation – Clockwise when Viewed from front, flywheel to rear.

SPECIFICATIONS							
MODEL	BORE & STROKE (inch)	NO.CYLS.	CU.FT./ REV.	OIL CAPACITY (QTS.)	WEIGHT (LBS.)	MAXIMUM PRESSURE (PSIG)	MIN./MAX. RPM
RV15A	4-5/8” & 2-1/2” X 3”	2	.02914	2	124	175	400/1050

WARNING: DO NOT OPERATE UNIT IF DAMAGED DURING SHIPPING, HANDLING OR USE. OPERATING UNIT IF DAMAGED MAY RESULT IN INJURY.

1. Permanently installed compressors must be located in a clean, well ventilated dry room so compressor receives adequate supply of fresh, clean, cool and dry air. It is recommended that a compressor, used for painting, be located in a separate room from that area wherein body sanding and painting is done. Abrasive particles or paint, found to have clogged the air intake filters and intake valves, shall automatically void warranty.
2. Compressors should never be located so close to a wall or other obstruction that flow of air through the fan blade flywheel, which cools the compressor, is impeded. Permanently mounted units should have flywheel at least 12" from wall.
3. Place stationary compressors on firm level ground or flooring. Permanent installations require bolting to floor or truck bed. Bolt holes in tank or base feet are provided. Before bolting or lagging down, shim compressor level. Avoid putting a stress on a tank foot by pulling it down to floor. This will only result in abnormal vibration, and possible cracking of air receiver. It is recommended that unit be set on optional vibro-isolator pads. Tanks bolted directly to a floor without isolators will not be warranted against cracking. Champion vibro-isolators or approved equivalent must be installed for extended warranty to apply to ASME receivers.
4. If installing base mounted unit, make certain the pressure limiting controls are properly installed and operational. The unloading system requires a control air pressure line from the air receiver to be connected to the pilot valve fitting on the pump.
5. Gas engine driven units installed indoors must have proper engine exhausting out of building.
6. Battery and Wiring Recommendations:

   A. If engine is connected to a dedicated battery

      1. The battery should have a minimum capacity of 24 AH and at least 350 CCA rating
      2. The wire size must be a minimum of #4 AWG. If the positive cable is longer than 5 feet or the negative cable is longer than 7.5 feet the wire size should be increased so that the maximum voltage drop from the battery to the unit connection does not exceed 0.5 volts while cranking. The battery location should be selected to keep the connecting leads as short as possible.
      3. Care should be taken when routing battery leads to insure that the leads are properly supported and insulated.
      4. The positive lead should be color coded RED and all connections should be enclosed by non-conducting covers. See Figure 1 for Honda connection.

5. The negative lead should be connected directly to the engine using one of the four 3/8” diameter mounting foot studs.
6. Electrical connections should be regularly inspected to insure that they are clean and tight.

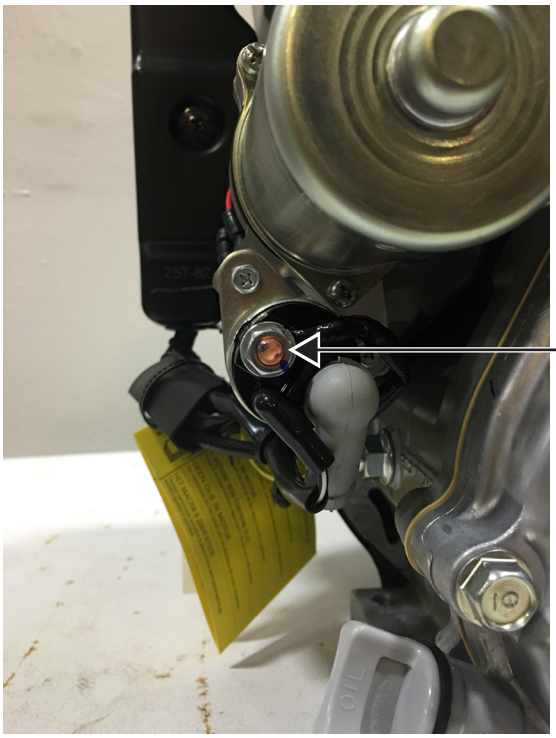


FIGURE 1

B. If engine is connected to the vehicle battery.

1. The vehicle battery should have a minimum capacity of 24 AH and at least 350 CCA rating.
2. The wire size must be a minimum of #4 AWG. If the positive cable is longer than 5 feet or the Negative cable is longer than 7.5 feet the wire size should be increased so that the maximum voltage drop from the battery to the unit connection does not exceed 0.5 volts while cranking. The battery location should be selected to keep the connecting leads as short as practical.
3. The Honda engine’s charging system should be disabled to prevent the damage from the vehicles charging system. This is done by removing the rectifier diode that is located in the key switch box.
   a) Remove the Phillips head screw holding the black plastic cover on the back of the key switch box See Figure 2.
   b.) Remove the black plastic cover from the back of the key switch box. Locate the black rectangular rectifier diode. It is on the side closet to the engine. Gently pry back the white plastic retainer clip on top of the diode closest to the key switch end and remove the diode. See Figure 3.

FIGURE 2

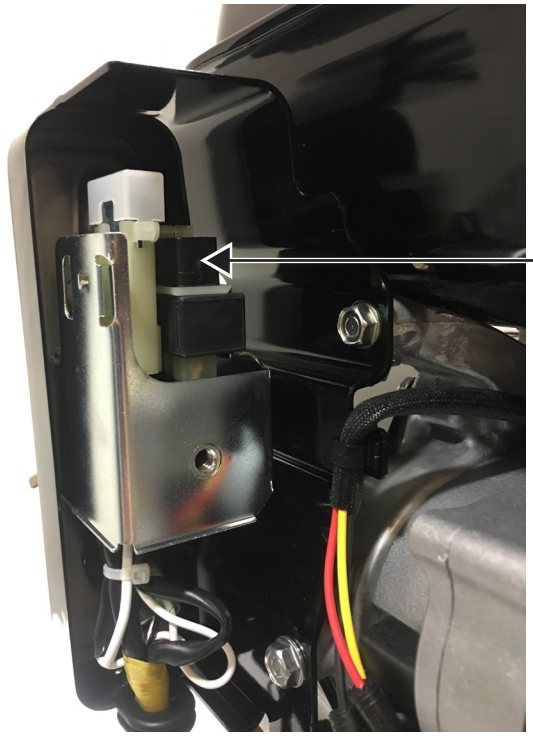


FIGURE 3

c.) Replace the black plastic cover on the back of the key switch box. Insure rubber wire grommet is installed correctly in the slot.

d.)Tighten Phillips head screw.

4. Care should be taken when routing battery leads to insure that the leads are properly supported and insulate.

5. The positive lead should be color coded RED and all connections should enclosed by non-conducting covers. See Figure 2
6. The negative lead should be connected directly to the Honda engine using one of the four 3/8" diameter mounting foot studs.
7. Electrical connections should be regularly inspected to insure that they are clean and tight.

DANGER: DO NOT INSTALL ISOLATING VALVES BETWEEN COMPRESSOR OUTLET AND AIR RECEIVER. THIS WILL CAUSE EXCESSIVE PRESSURE IF VALVE IS CLOSED, AND CAUSE INJURY AND EQUIPMENT DAMAGE.

WARNING: ALWAYS USE AN AIR PRESSURE REGULATING DEVICE AT THE POINT OF USE. FAILURE TO DO SO CAN RESULT IN INJURY OR EQUIPMENT DAMAGE.

CAUTION:

- **DO NOT INSTALL IN AN AREA WHERE AMBIENT TEMPERATURE IS BELOW 32 DEGREES F OR ABOVE 100 DEGREES F.**
- **DO NOT INSTALL UNIT IN AN AREA WHERE AIR IS DIRTY AND/OR CHEMICAL LADEN.**
- **UNIT IS NOT TO BE INSTALLED OUTDOORS.**

DAILY MAINTENANCE

1. Check oil level of compressor. Add Champlub recip lubricant as required. See "Compressor Oil Specifications" Section. NOTE: Do not mix oil type, weight, or brands.
2. Drain moisture from tank by opening tank drain cock located in bottom of tank. Do not open drain valve if tank pressure exceeds 25 PSIG.
3. Turn off compressor at the end of each day's operation. Turn off power supply at wall switch.

WEEKLY MAINTENANCE

WARNING: DO NOT EXCEED 15 PSIG NOZZLE PRESSURE WHEN CLEANING ELEMENT PARTS WITH COMPRESSED AIR. DO NOT DIRECT COMPRESSED AIR AGAINST HUMAN SKIN. SERIOUS INJURY COULD RESULT. NEVER WASH ELEMENTS IN FUEL OIL, GASOLINE OR FLAMMABLE SOLVENT.

1. Clean dust and foreign matter from cylinder head, motor, fan blade, air lines, intercooler and tank.
2. Remove and clean intake air filters.
3. Check V-belts for tightness. The V-belts must be tight enough to transmit the necessary power to the compressor. Adjust the V-belts as follows:
   a. Remove bolts and guard to access compressor drive.
   b. Loosen mounting hardware which secures motor to base. Slide motor within slots of baseplate to desired position.
   c. Apply pressure with finger to one belt at midpoint span. Tension is correct if top of belt aligns with bottom of adjacent belt. Make further adjustments if necessary.
   d. Check the alignment of pulleys. Adjust if necessary.
   e. Tighten mounting hardware to secure motor on base.
   f. Install guard and secure bolts.

WARNING: NEVER OPERATE UNIT WITHOUT BELT GUARD IN PLACE. REMOVAL WILL EXPOSE ROTATING PARTS WHICH CAN CAUSE INJURY OR EQUIPMENT DAMAGE.

EVERY 90 DAYS OR 500 HOURS MAINTENANCE

1. Change crankcase oil and oil filter. Use only Champlub recip lubricant.
2. Check entire system for air leakage around fittings, connections, and gaskets, using soap solution and brush.
3. Tighten nuts and cap screws as required.
4. Check and clean compressor valve plates as required.
5. Valve plates must be replaced in original position. Valve gaskets should be replaced each time valves are serviced.

CAUTION: VALVE PLATES MUST BE REPLACED IN ORIGINAL POSITION. VALVE GASKETS SHOULD BE REPLACED EACH TIME VALVES ARE SERVICED.

GENERAL MAINTENANCE NOTES

PRESSURE RELIEF VALVE: The pressure relief valve is an automatic pop valve. Each valve is properly adjusted for the maximum pressure of the unit on which it is installed. If it should pop, it will be necessary to drain all the air out of the tank in order to reseat properly, or drop pressure in line. Do not readjust.

BELTS: Drive belts must be kept tight enough to prevent slipping. If belts slip or squeak, see V-belt maintenance in preceding section.

CAUTION: IF BELTS ARE TOO TIGHT, OVERLOAD WILL BE PUT ON MOTOR AND MOTOR BEARINGS.

COMPRESSOR VALVES: If compressor fails to pump air or seems slow in filling up tank, disconnect unit from power source and remove valve plate and clean thoroughly, using compressed air and a soft wire brush. After cleaning exceptional care must be taken that all parts are replaced in exactly the same position and all joints must be tight or the compressor will not function properly. When all valves are replaced and connections tight, close hand valve at tank outlet for final test. Valve plate gaskets should be replaced each time valves are removed from pump.

CHECK VALVE: The check valve closes when the compressor stops operating, preventing air from flowing out of the tank through the pressure release. After the compressor stops operating, if air continues to escape through the release valve, it is an indication that the check valve is leaking. This can be corrected by removing check valve and cleaning disc and seat. If check valve is worn badly, replace same.

WARNING: BEFORE REMOVING CHECK VALVE BE SURE ALL AIR IS DRAINED OUT OF TANK AND POWER IS DISCONNECTED. FAILURE TO DO SO MAY RESULT IN INJURY OR EQUIPMENT DAMAGE.

THE INTERSTAGE PRESSURE RELIEF VALVE is provided to protect against interstage over pressure and is factory set for maximum pressure of 75 PSIG. DO NOT RESET If the pressure relief valve pops, it indicates trouble. Shut down the unit immediately and determine and correct the malfunction. Inspect the head valves. Serious damage can result if not corrected and can lead to complete destruction of the unit. Tampering with the interstage pressure relief valve, or plugging the opening destroys the protection provided and voids all warranty.

COMPRESSOR LUBRICATION: Fill crankcase to proper level as indicated by oil sight gauge. Keep crankcase filled as required by usage. It is recommended that only Champlub recip lubricant be used. This is a 30-weight, non-detergent industrial oil with rust and oxidation inhibitors specially formulated for reciprocating compressors. Do not mix oil types, weights or brands.

COMPRESSOR OIL SPECIFICATIONS

Compressors are factory filled with CHAMPLUB hydrocarbon based recip lubricant. This is an ISO 100 non-detergent industrial lubricant with rust and oxidation inhibitors specially formulated for reciprocating compressors. It is recommended this compressor be maintained using this oil for ambient temperatures above 32°F.

CHAMPLUB synthetic is a premium grade diester based synthetic lubricant providing excellent performance in high temperature applications.

CAUTION: DO NOT MIX OIL TYPES, WEIGHTS OR BRANDS.

"EMULSIFICATION OF OIL (WHITE MILKY SUBSTANCE) INDICATES UNSAFE ACCUMULATION OF MOISTURE AND MAY BE EVIDENCE COMPRESSOR IS OVERSIZED FOR APPLICATION. FAILURE TO PROMPTLY CONSULT YOUR LOCAL DISTRIBUTOR, OR CHAMPION CUSTOMER SERVICE, CAN BE GROUNDS TO DENY WARRANTY."

NOTES:

1. Normal break-in period of Champion air compressors is 25 hours.
2. For the first 100 hours of compressor operation, a careful and regular check of the oil level should be made. Maintain oil level at the full line.

CHANGING TO SYNTHETIC LUBRICANT

(Applies to diester based synthetic lubricant only) If changing to synthetic lubricant, the following steps must be completed.

1. Compressor must run for a 25 hour break-in period using ChampLub ISO 100 oil.
2. Thoroughly drain existing oil from crankcase.
3. Fill crankcase with a full charge of synthetic lubricant.
4. Run compressor for 200 hours.
5. Stop compressor and thoroughly drain the synthetic lubricant.
6. Add a full charge of synthetic lubricant.
7. Compressor now ready to run for extended period before next lubricant change made. Maintain oil level at the full line.

LUBRICANT

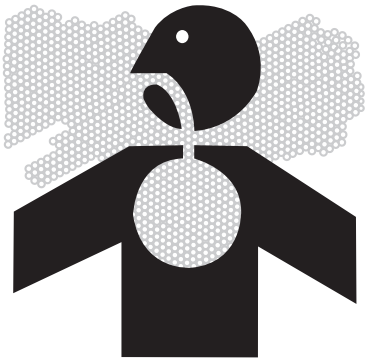
CHAMPLUB	
DESCRIPTION	**PART NUMBER**
1 – Quart Case (12/case)	P09479A
1 – Gallon Case (4/case)	P08909A
5 – Gallon Pail	P08908A
55 – Gallon Drum	P08907A
CHAMPLUB SYNTHETIC	
DESCRIPTION	**PART NUMBER**
1 – Quart Case (12/case)	P13179A
1 – Gallon Case (4/case)	P13180A
5 – Gallon Pail	P11506A
55 – Gallon Drum	P13181A

TORQUE VALVES

SPECIFIC APPLICATION	**FASTENER SIZE & THREAD**	**TORQUE INCH-POUNDS**
BEARING HOUSING BOLT	3/8 – 16	400
CYLINDER FLANGE BOLT	7/16 – 20	400
CONNECTING ROD BOLT	5-16 – 18	230
MANIFOLD BOLT	3/8 – 16	200
FLYWHEEL BOLT	1/2 – 13	600

A -- Generator
B -- Pump
C -- Oil Sight Glass
D -- Fuel Tank
E -- Engine
F -- Beltguard
G -- Tank Drain Valve
H -- Pressure Gauge

INSTALLATION



Read safety warnings before setting-up the unit.

Ensure the oil level in the unit's pump is adequate. If low, add SAE-30W non-detergent oil.

LOCATION:

In order to avoid damaging the unit, do not incline the unit transversely or longitudinally more than 10°.

WARNING: RISK OF ASPHYXIATION! DO NOT OPERATE IN AN ENCLOSED AREA. USE THIS PRODUCT ONLY IN WELL VENTILATED AREAS! THE EXHAUST FROM THE ENGINE CONTAINS CARBON MONOXIDE, A POISONOUS, ODORLESS AND INVISIBLE GAS. BREATHING THE GAS CAN CAUSE SERIOUS INJURY, ILLNESS AND POSSIBLE DEATH.

WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH! DO NOT ALLOW THE ENGINE OR MUFFLER TO COME IN CONTACT WITH FLAMMABLE VAPORS, COMBUSTIBLE DUST, GASES OR OTHER COMBUSTIBLE MATERIALS. A SPARK MAY CAUSE A FIRE.

WHEN USING THE UNIT FOR SPRAY PAINTING, PLACE THE UNIT AS FAR AWAY FROM THE WORK AREA AS POSSIBLE, USING EXTRA AIR HOSES IF NEEDED.

Place unit at least 12 inches away from obstacles that may prevent proper ventilation. Do not place unit in an area:

- where there is evidence of oil or gas leaks.
- where flammable gas vapors or materials may be present.
- where air temperatures fall below 32°F or exceed 104°F.
- where extremely dirty air or water could be drawn into the unit.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

DANGER: IMPROPER CONNECTION OF THE EQUIPMENT - GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTROCUTION. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICE PERSON IF YOU ARE IN DOUBT AS TO WHETHER THE UNIT IS PROPERLY GROUNDED.

The screw and ground terminal on the frame must always be used to connect the unit to a suitable ground source. The ground path should be made with #8 size wire. Connect the terminal of the ground wire between the star washers and screw then tighten the screw fully. Connect the other end of the wire securely to a suitable ground source.

The National Electric Code contains several practical ways in which to establish a good ground source. Examples given below illustrate a few of the ways in which a good ground source may be established.

A metal underground water pipe in direct contact with the earth for at least 10 feet can be used as a grounding source. If a pipe is unavailable, an 8 foot length of pipe or rod may be used as the ground source. The pipe should be 3/4 inch trade size or larger and the outer surface must be noncorrosive. If a steel or iron rod is used it should be at least 5/8 inch diameter and if a nonferrous rod is used it should be at least 1/2 inch diameter and be listed as material for grounding. Drive the rod or pipe to a depth of 8 feet. If a rock bottom is encountered less than 4 feet down, bury the rod or pipe in a trench. All electrical tools and appliances operated from this unit, must be properly grounded by use of a third wire or be “Double Insulated”.

It is recommended to:

1. Use electrical devices with 3 prong power cords.
2. Use an extension cord with a 3 hole receptacle and a 3 prong plug at the opposite ends to ensure continuity of the ground protection from the unit to appliance.

Champion strongly recommend that all applicable federal, state and local regulations relating to grounding specifications be checked and followed.

LINE TRANSFER SWITCH:
If this unit is used for standby service, it must have a transfer switch between the utility power service and the unit. The transfer switch not only prevents the utility power from feeding into the unit, but also prevents the unit from feeding out into the utility company’s lines. This is intended to protect the serviceman who may be working on a damaged line.

THIS INSTALLATION MUST BE DONE BY A LICENSED ELECTRICIAN AND ALL LOCAL CODES MUST BE FOLLOWED.

GASOLINE ENGINE

Review "Risk of Fire or Explosion" before fueling. Read the engine manual accompanying this unit for correct engine start-up maintenance procedures. Read and understand the safety labels located on the unit.

WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH! DO NOT SMOKE WHILE FUELING!

DO NOT FILL FUEL TANK WHILE THE UNIT IS RUNNING OR HOT. ALLOW THE UNIT AND ENGINE TO COOL DOWN FOR TWO MINUTES BEFORE REFUELING.

DO NOT FILL FUEL TANK TO POINT OF OVERFLOWING. ALLOW APPROXIMATELY 1/4" OF TANK SPACE FOR FUEL EXPANSION.

DO NOT PLACE UNIT IN AN AREA WHERE FLAMMABLE GAS VAPORS MAY BE PRESENT. A SPARK COULD CAUSE AN EXPLOSION OR FIRE.

ALWAYS STORE FUEL AWAY FROM THE UNIT WHILE IT IS RUNNING OR HOT.

WARNING: RISK OF EXPLOSION OR FIRE CAUSING SERIOUS INJURY OR DEATH DO NOT ALLOW THE ENGINE OR MUFFLER TO COME IN CONTACT WITH FLAMMABLE VAPORS, COMBUSTIBLE DUST, GASES OR OTHER COMBUSTIBLE MATERIALS. A SPARK MAY CAUSE A FIRE.

WHEN USING THE UNIT FOR SPRAY PAINTING, PLACE THE UNIT AS FAR AWAY FROM THE WORK AREA AS POSSIBLE, USING EXTRA AIR HOSES IF NEEDED.

A minimum of 86 octane fuel is recommended for use with this air compressor. Do not mix oil with gasoline.

Use of clean, fresh, lead free gasoline is recommended. Leaded gasoline may be used if lead free is not available. Do not use gasoline containing methanol or alcohol.

Refer to the engine manual for all necessary maintenance and adjustments.

HIGH ALTITUDE

At high altitude, the standard carburetor air/fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your unit at altitudes above 5,000 feet (1,500 meters), have your dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

NOTE: *When the carburetor has been modified for high altitude operation, the air/fuel mixture will be too lean for low altitude use. Operation at altitudes below 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage.*

For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.

OPERATION

Pre-Operation:
Check the engine oil level before starting. (See engine manual.) Fill the fuel tank according to the engine manual instruction.
Pump oil level should be checked before each use. Check the oil level indicator on the pump crankcase. Make certain the oil is in the center of the oil sight glass. If the level appears to be low, fill with SAE20 or 30 non-detergent pump oil.

Remove any moisture in the unit's air tank.

WARNING: NEVER ATTEMPT TO OPEN THE AIR TANK DRAIN VALVE WHEN MORE THAN 10 PSI OF AIR PRESSURE IS IN THE AIR TANK!

Remove excessive pressure with an air tool, then open the Air Tank Drain Valve in the bottom of the air tank. Close tightly when drained.
Make sure the Engine Switch is in the "OFF" position.
Make sure the Safety Relief Valve is working correctly.
Make sure all guards and covers are in place and securely mounted.

Start-up:

1. Read safety warnings before performing operation.

NOTE: *Unplug all equipment from the power receptacles before starting the unit.*

2. Flip the toggle on top of the Pilot Valve to the upright position. This provides a loadless start. The unit will unload and allow easier engine start-up.
3. Start the engine. (Refer to the Engine Manual accompanying this unit.) *NOTE: The engine throttle lever is factory set and has been locked in place. Do not attempt to adjust.*
4. When the engine has run for 1-2 minutes, flip toggle back to the original position.
5. Set pressure by adjusting the Pressure Regulator counterclockwise for less pressure and clockwise for more pressure. (Actual delivered pressure may vary from pump maximum pressure rating).
6. Make sure the unit is grounded. See Grounding Instructions.
7. Loads can now be applied to the unit.

NOTE: *This engine is equipped with a "Low Oil" shutdown system for engine protection. The engine stops when the oil level gets too low. The engine will not restart without adding oil.*
If you notice any unusual noise or vibration, stop the unit and refer to "Troubleshooting".

Shutdown:

1. Remove all load by turning off electrical appliances and unplugging electric cords.
2. Move the Engine Switch to the "OFF" position. (Refer to the Engine Manual accompanying this unit.)
3. Drain air from the air tanks by releasing air with an attached air tool or by pulling on the Safety Relief Valve.
4. Once the Air Tank Pressure Gauge registers under 10 pounds, open the drain valve under each air tank to drain any moisture.
5. Allow the unit to cool down.
6. Wipe the unit clean and store in a safe, non-freezing, dry area.

OPERATION

CABLE SIZE:

Equipment damage can result from low voltage. Therefore, to prevent excessive voltage drop between the unit and the equipment, the cable should be of adequate gauge for the length used. The cable selection chart gives the maximum cable lengths for various gauges of wire which can adequately carry the loads shown.

CURRENT	LOAD IN WATTS		MAXIMUM CABLE LENGTH (FEET)				
IN AMPS	120 VOLTS	240 VOLTS	#8 WIRE	#10 WIRE	#12 WIRE	#14 WIRE	#16 WIRE
2.5	300	600		1000	600	375	250
5	600	1200		500	300	200	125
7.5	900	1800		350	200	125	100
10	1200	2400		250	150	100	50
15	1800	3600		150	100	65	
20	2400	4800	175	125	75	50	
25	3000	6000	150	100	60		
30	3600	7200	125	65			
40	4800	9600	90				

ELECTRIC MOTOR LOADS:

It is characteristic of common electric motors in normal operation to draw up to six times their running current while starting. This table may be used to estimate the watts required to start “CODE G” electric motors.

CAUTION: IF AN ELECTRIC MOTOR FAILS TO START OR REACH RUNNING SPEED, TURN OFF THE APPLIANCE OR TOOL IMMEDIATELY TO AVOID EQUIPMENT DAMAGE. ALWAYS CHECK THE REQUIREMENTS OF THE TOOL OR APPLIANCE BEING USED COMPARED TO THE RATED OUTPUT OF THE UNIT.

		WATTS REQUIRED TO START MOTOR		
MOTOR (H.P.)	RUNNING WATTS	REPULSION INDUCTION	CAPACITOR	SPLIT PHASE
1/8	275	600	850	1200
1/6	275	600	850	2050
1/4	400	850	1050	2400
1/3	450	975	1350	2700
1/2	600	1300	1800	3600
3/4	850	1900	2600	
1	1100	2500	3300	

TROUBLESHOOTING

Symptom	Problem	Solution
Engine will not start.	Various engine problems.	Refer to the engine manual accompanying your unit.
Noisy operation.	Loose engine pulley or pump flywheel.	Tighten pulley and or flywheel.
	Lack of oil in the pump.	Add correct amount of oil. Check for bearing damage.
	Carbon deposits on pistons or valves.	Remove cylinder head and inspect. Clean or replace.
	Bearing, piston or connecting rod failure.	STOP THE Unit! Contact Champion customer service.
Pressure drop in air tank or rapid pressure loss when the unit is shut off.	Air leaks at connections.	Allow the unit to build pressure to the maximum allowed. Turn off and brush a soapy water solution onto all connections. Check connections for air bubbles. Tighten the connections where leaks are present.
	Air leak in air tank.	Air tank must be replaced. Do not attempt to repair air tank!
	Defective Pilot Valve.	Clean or replace.
Insufficient pressure at air tool or accessory.	Pressure Regulator not turned to high enough pressure or defective.	Adjust Pressure Regulator to proper setting or replace.
	Restricted air intake.	Clean or replace Air Intake Filter.
	Air leaks or restrictions.	Check for leaks and repair.
	Hose or hose connections are too small or long.	Replace with larger hose or connectors.
	Slipping belt.	Tighten or replace.
	The unit is not large enough for air requirement.	Check the accessory air requirement. If it is higher than the CFM or pressure supply to the air compressor, use a larger unit.
	Restriction in Pilot Valve.	Clean or replace.

Symptom	Problem	Solution
Unit has no output.	Circuit breakers tripped.	Reset circuit breakers.
	Inadequate cord sets or extension cords.	Check cord sets or extension cords capabilities.
Air leaks from Safety Relief Valve.	Possible defective Safety Relief Valves.	Operate Safety Relief Valve manually by pulling on ring. If it still leaks, it should be replaced.
	Excessive air tank pressure.	Clean, reset or replace Pilot Valve.
Air leaks at pump.	Defective gaskets.	Tighten bolts on compressor head to proper torque or replace gaskets.
Air blowing from Air Intake Filter.	Defective inlet (reed) valve.	Contact your Champion customer service center.
Moisture in discharge air.	Condensation in air tank caused by high level of atmospheric humidity or the unit is not run long enough.	Run the unit a minimum of one hour to prevent condensation buildup. Drain air tank more often in humid weather and use an air line filter.
Excessive oil consumption or oil in hose.	Restricted Air Intake Filter.	Clean or replace.
	The unit on unlevel surface.	Do not incline the unit more than 10° in any direction while running.
	Crankcase overfilled with oil.	Drain oil. Refill to proper level with SAE-30W non-detergent oil.
	Wrong viscosity.	Drain oil. Refill to proper level with SAE-30W non-detergent oil.
	Plugged crankcase breather.	Clean or replace.
	Oil leaks.	Tighten bolts on compressor to proper torque or replace gaskets.
	Worn piston rings or scored cylinder.	Contact your Champion Customer service center.
Oil has milky appearance.	Water in oil due to condensation.	Change oil and move air compressor to a less humid environment.
Unit has no output.	Inadequate cord sets or extension cords.	Check cord sets or extension cords capabilities in section Maintenance; Cable Size in this manual. Consult your Champion Customer Service Center.

MAINTENANCE

Read the instruction manual before performing maintenance.

Keep all air vents clear.

Keep the unit clean.

DO NOT spray with water.

Periodically check all fasteners and tighten, see the periodic maintenance chart.

The following procedures must be performed when stopping the unit for maintenance or service:

1. Turn off the unit.
2. Disconnect spark plug wire from engine.
3. Open all drains.
4. Wait for the unit to cool before starting service.

MAINTENANCE CHART:

To ensure satisfactory operation over an extended period of time, an engine requires normal maintenance at regular intervals. The Periodic Maintenance Chart below shows periodic inspection and maintenance items and suitable intervals. The bullet mark designates that the corresponding item should be performed at that interval.

NOTE: *Some adjustments require the use of special tools or other equipment. An electronic tachometer will facilitate setting idle and running speeds.*

Procedure	Daily	Weekly	Monthly	100 Hours	200 Hours	Before Storage
Check Pump Oil Level	x					
Check Engine Oil Level	x					
Oil Leak Inspection	x					
Check Engine Air Filter	x					
Drain Condensation in Air Tank (s)	x					
Inspect Guards/Covers	x					
Check for Unusual Noise/Vibration	x					
Check for Air Leaks	x					
Check cylinder and head fins for dust and dirt	x					
Check battery electrolyte level	x					
Check fuel lines (replace if necessary)	x					
Clean Exterior of Compressor		x				
Inspect Air Filter		x				
Inspect Belt			x			
Check Safety Relief Valve			x			
Change engine oil (••)				x		
Clean fuel filter				x		
Clean dust and dirt from cylinder and cylinder head fins (•••)				x		
Change Pump Oil (•)					x	
Replace Air Filter					x	
Check Engine Spark Plug					x	
Add fuel stabilizer						x
Run unit dry						x

• The pump oil must be changed after the first 50 hours of operation and every 200 hours or 3 months, whichever comes first.

•• The engine oil must be changed after the first 5 hours of operation and every 50 hours or 3 months, whichever comes first.

••• Service more frequently under dusty conditions.

Every 2 years, an Authorized Champion Service Technician should check the safety valve, intake valves and delivery valves.

MAINTENANCE

ENGINE:

The engine for this unit is governed to operate at speeds close to 3600 RPM (60Hz) throughout the operating load range.

WARNING: DO NOT TAMPER WITH THE GOVERNOR MECHANISM, CHANGE THE SETTING EXPERIMENTALLY, OR PUSH THE THROTTLE OPEN IN AN ATTEMPT TO GENERATE MORE ELECTRICAL CURRENT; EQUIPMENT DAMAGE OR PERSONAL INJURY MAY RESULT.

GOVERNOR SPEED ADJUSTMENT SHOULD BE MADE ONLY BY A JOHN DEERE SERVICING DEALER.

CHECKING ENGINE OIL:

Check oil level before each operation and ensure that it is maintained per engine manual.

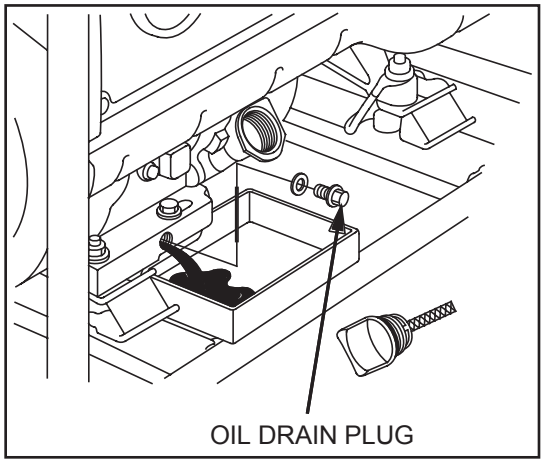
CHANGING ENGINE OIL:

Change oil after the first 25 hours of operation. Thereafter it should be changed every 50 hours.

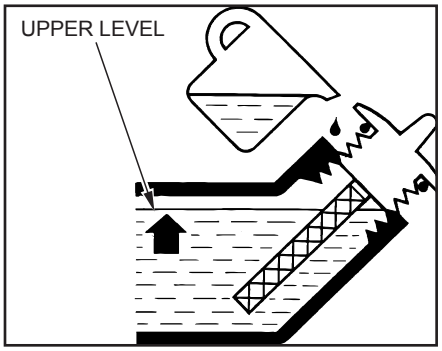
1. Make sure the unit is on level ground. Run the engine to warm the oil.
2. Stop the engine.
3. Remove the oil drain plug. (See Fig. 1)

CAUTION: OIL BEING DRAINED MAY BE HOT. TO REDUCE THE RISK OF BURN INJURY, HANDLE WITH CARE. DISPOSE OF USED OIL PROPERLY.

4. Drain oil while engine is warm, into a suitable container.
5. Reinstall the oil drain plug.
6. Remove oil gauge and refill with new oil. (Fig. 2)
7. Check the oil level as instructed in the engine manual.
8. Wipe up any spilled oil.



(Fig. 1)



(Fig. 2)

MAINTENANCE

AIR CLEANER:

WARNING: RISK OF FIRE OR EXPLOSION. DO NOT USE GASOLINE OR LOW FLASH-POINT SOLVENTS TO CLEAN THE ELEMENT. CLEAN THE ELEMENT IN A WELL VENTILATED AREA. ENSURE THAT NO SPARKS OR FLAMES ARE NEAR THE WORKING AREA, THIS NCLUDES ANY APPLIANCE WITH A PILOT LIGHT.

CAUTION: NEVER RUN THE ENGINE WITHOUT THE AIR FILTER, SERIOUS DANGER CAN RESULT.

Check the air cleaner daily or before starting the engine. Check for and correct heavy buildup of dirt and debris along with loose or damaged components.

1. Unscrew the air cleaner cover and remove the elements.
2. Clean the element:

PAPER AIR CLEANER ELEMENT: Do not wash the paper element or use pressurized air, as this will damage the element. Clean by gently tapping the element to remove dust. Replace the element if damaged, bent or extremely dirty. Handle new element carefully; do not use if the sealing surfaces are bent or damaged.

NOTE: *Replace the paper element every 100 hours (more often under extremely dusty conditions.)*

3. Reinstall the paper air cleaner element. Close air cleaner cover and screw shut.

MAINTENANCE

CLEANING AND GAPPING SPARK PLUG:

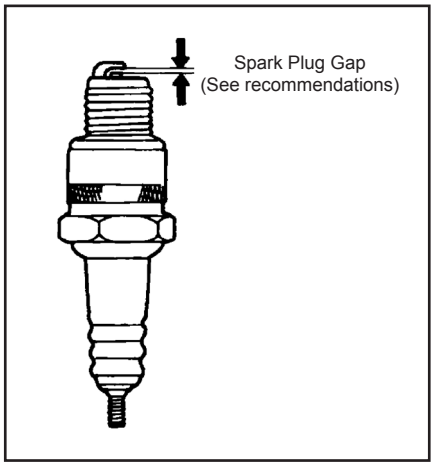
If the plug is contaminated with carbon, remove it using a plug cleaner or wire brush.

Check the spark plug gap and reset it if necessary. The spark plug gaps are listed below. To change the gap, bend the side-electrode only, using a spark plug tool. (Fig. 3)

Install and tighten the spark plug. Connect the spark plug lead.

RECOMMENDED SPARK PLUG:

ENGINE	HONDA
SPARK PLUG	NGK BPR6ES
SPARK PLUG GAP	0.7 - 0.8 mm (0.03 in.)
TORQUE - NEW	8.7-10.9 ft-lb
TORQUE - RETIGHTEN	16.6-19.5 ft-lb



(Fig. 3)

BELT TENSION ADJUSTMENT:

To maintain peak performance of your unit, it may be necessary to adjust the belt tension on occasion. Follow the procedure outlined below:

1. Remove the beltguard and loosen the two nuts on each side of the pump or engine. There are a total of 4 nuts.
2. Turn the cap screw clockwise until a 1/2 inch belt deflection is noticed between the pulleys.
3. Tighten the side nuts.
4. Put a straight edge across both pulleys. If necessary, loosen one set of pulley screws and adjust in or out to properly align. Tighten the pulley screws and check the tension again.
5. Replace the beltguard and tighten the fasteners securely.

STORING UNIT

SHORT TERM (1-6 MONTHS):

1. Add gasoline conditioner & stabilizer at the specified concentration.
2. Run the unit for two (2) minutes to ensure the mixed fuel is in the entire fuel system. Close the fuel valve and run the unit until it stops.
3. Remove the spark plug, pour 1-2 teaspoons (5-10cc) of engine oil into the cylinder, slowly pull the starter handle 2 or 3 times, reinstall the spark plug and tighten securely.
4. Clean the exterior surface of the unit and apply a rust inhibitor.
5. Store the unit in a dry, well ventilated place.

LONG TERM (MORE THAN 6 MONTHS):

1. Add gasoline conditioner & stabilizer at the specified concentration.
2. Run the unit until the fuel tank and carburetor are dry. As the engine is beginning to die, move the choke lever to the choke position.

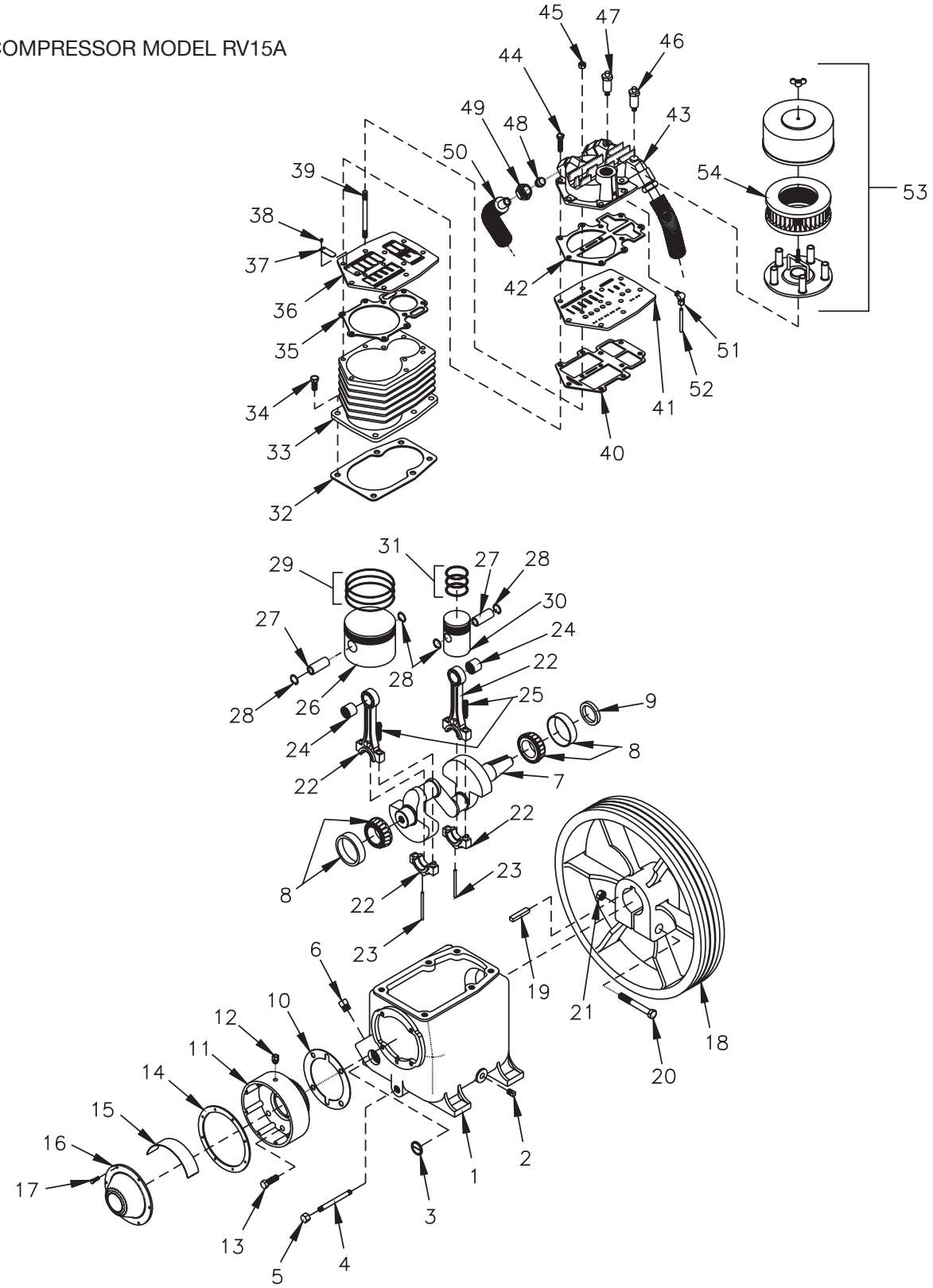
   NOTE: *Turn off the idle control to decrease the run time.*
3. Remove the spark plug, pour 1-2 teaspoons (5-10cc) of engine oil into the cylinder, slowly pull the starter handle 2 or 3 times, reinstall the spark plug and tighten securely.
4. Clean the exterior surface of the unit and apply a rust inhibitor.
5. Store the unit in a dry, well ventilated place.

WARNING: FUEL SHOULD BE DRAINED IN A WELL VENTILATED AREA AND STORED IN A CONTAINER APPROVED FOR GASOLINE.

SPECIFICATIONS

ITEM	SPECIFICATION
Unit	HGRV7-LPH-G
Engine	Honda
HP	13
Oil (oz)	37 oz
Watts w/o Comp	3500
Watts w/ Comp	2300
Rated Voltage (V)	120V
Frequency (Hz)	60 Hz
Comp Pump	2 stage
Pump Oil (oz)	64
Air Tank (gal)	8 gallon
Max Pressure (psi)	175 psi

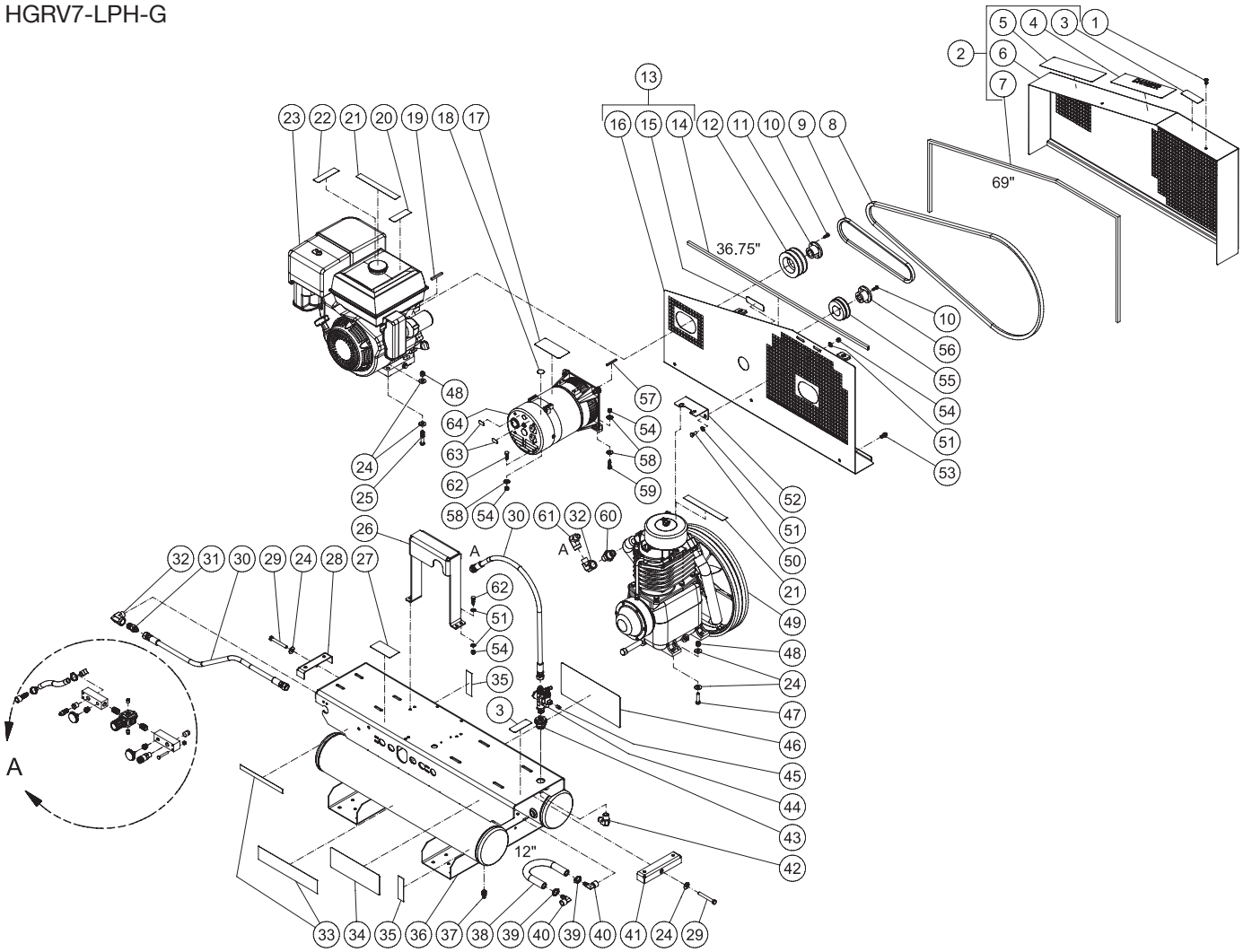
COMPRESSOR MODEL RV15A

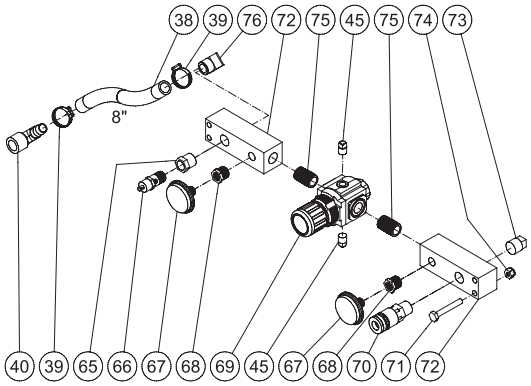


REPAIR PARTS ILLUSTRATION

REF.	DESCRIPTION	PART NUMBER	QTY.
1	CRANKCASE	M1820	1
2	PIPE PLUG	64AA5	1
3	OIL LEVEL GAUGE	RE714	1
4	PIPE NIPPLE	M492	1
5	PIPE CAP	M461	1
6	PIPE PLUG	64A5	1
7	CRANKSHAFT	R155	1
8	MAIN BEARING	ZNR16	2
9	OIL SEAL	OSN4	1
10	BEARING HOUSING GASKET SET	Z130	1
11	BEARING HOUSING	NR80A	1
12	3/8 X 1/4 NPT STRAIGHT COMPRESSION FITTING	M2864	1
13	HEX HEAD CAP SCREW	M2343	4
14	BEARING HOUSING COVER GASKET	SE1489	1
15	BAFFLE PLATE	NR104	1
16	BEARING HOUSING COVER	P07358C	1
17	HEX HEAD MACHINE SCREW	M3473	6
18	FLYWHEEL	NR7A	1
19	KEY	U8	1
20	HEX HEAD CAP SCREW	M738	1
21	HEX NUT	M2955	1
22	CONNECTING ROD ASSEMBLY (INCLUDES ITEMS 23,24 &25)	Z750	2
23	OIL DIPPER	R1524	2
24	PISTON PIN BEARING	R1037	2
25	CONNECTING ROD BOLT	M1583	4
26	LOW PRESSURE PISTON WITH PIN	ZM2091	1
27	PISTON PIN	R1021	2
28	PISTON PIN RETAINING RING	R10102	4
29	LOW PRESSURE PISTON RING SET	Z798	1
30	HIGH PRESSURE PISTON WITH PIN	ZM2090	1
31	HIGH PRESSURE PISTON RING SET	Z797	1
32	CYLINDER FLANGE GASKET	NR29A	1
33	CYLINDER	M2087	1
34	HEX HEAD CAP SCREW	M2597	6
35	CYLINDER GASKET	CC1008308	1
36	VALVE PLATE	M2088	1
37	REED VALVE	P07497A	14
38	REED VALVE SCREW	M1565	28
39	VALVE PLATE STUD	P05611A	2
40	VALVE PLATE GASKET	CC1008307	1
41	VALVE PLATE	M2089	1
42	HEAD GASKET	CC1008309	1
43	HEAD	M2086	1
44	SOCKET HEAD SCREW	M3570	9
45	LOCKING HEX NUT	P08295A	2
46	INTERSTAGE PRESSURE RELIEF VALVE	CC1009750	1
47	DISCHARGE PRESSURE RELIEF VALVE	P09704A	1
48	FERRULE	SE542	3
49	COMPRESSION NUT	SE541	3
50	INTERCOOLER	ZP04472C	1
51	3/8 X 1/4 NPT 90 COMPRESSION FITTING	86A86	1
52	BREATHER TUBE	ZM2150	1
53	INTAKE FILTER	P04999A	1
54	INTAKE FILTER ELEMENT	P05050A	1
	COMPLETE COMPRESSOR PUMP GASKET SET (ITEMS 10,14,32,35,40 & 42)	Z800	1
	LOW PRESSURE PISTON KIT (ITEMS 26 & 29)	Z796	1
	HIGH PRESSURE PISTON KIT (ITEMS 30 &31)	Z795	1
	COMPLETE COMPRESSOR PUMP RING SET (ITEMS 29 & 31)	Z799	1
	VALVE PLATE KIT (ITEMS 35 - 42)	Z1183	1

HGRV7-LPH-G



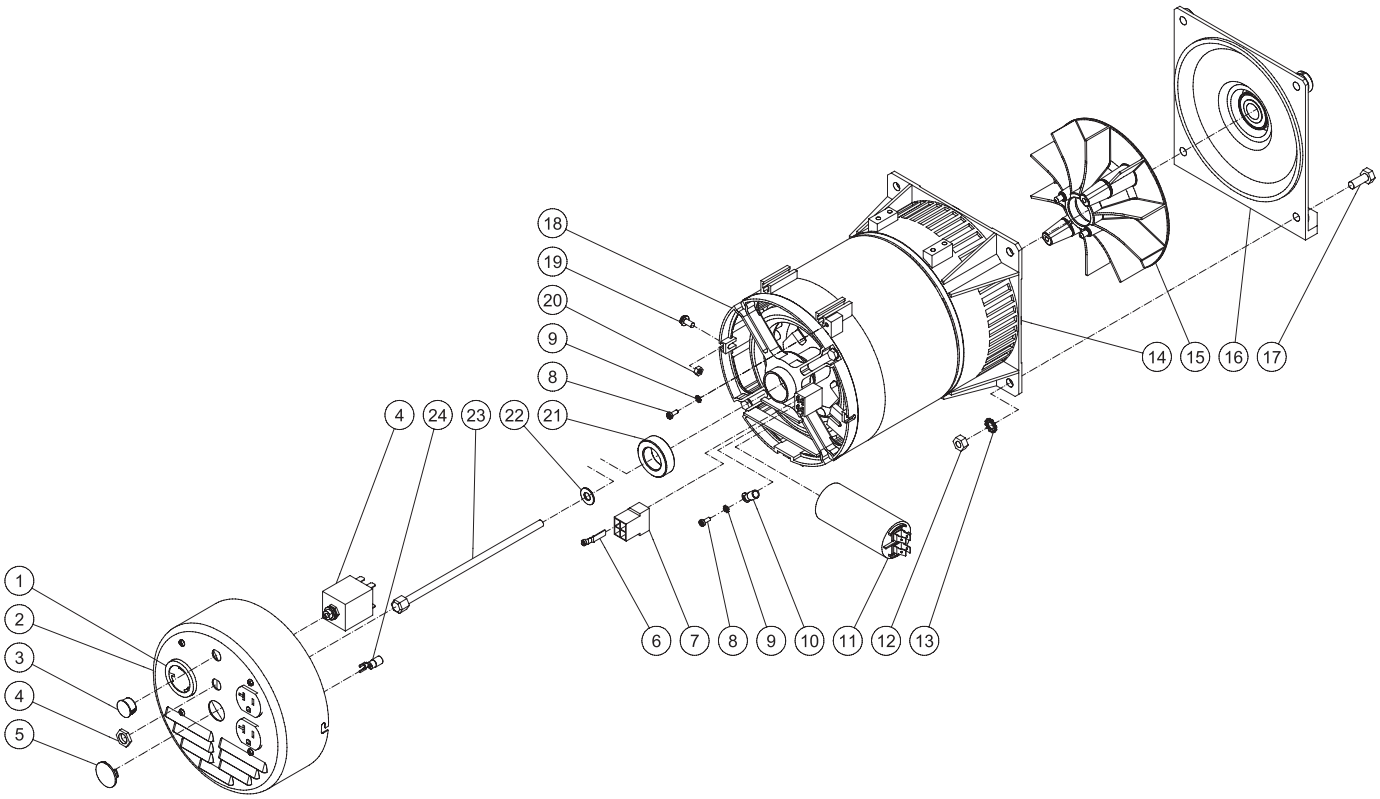


DETAIL A

REPAIR PARTS ILLUSTRATION

ITEM	DESCRIPTION	PART #	QTY
1	FASTENER	33-0197	2
2	BELTGUARD FRONT ASSEMBLY	TEN001371	1
3	DECAL - RISK OF BURNS (SEE 71-0077)	N/A	2
4	DECAL- WARNING (SEE 71-0077)	N/A	1
5	DECAL - OPERATIONS (SEE 71-0077)	N/A	1
6	BELTGUARD FRONT-	N/A	1
7	EDGING *(SIX FEET REQUIRED)	TEN001372	1
8	BELT	TEN001373	1
9	BELT	TEN001374	1
10	BOLT	27-0015	4
11	BUSHING	TEN001375	1
12	SHEAVE	TEN001376	1
13	BELTGUARD BACK ASSEMBLY	TEN001381	1
14	EDGING *(FOUR FEET REQUIRED)	TEN001372	1
15	DECAL - WARNING (SEE 71-0077)	N/A	1
16	BELTGUARD BACK	N/A	1
17	DECAL - RISK OF SHOCK (SEE 71-0077)	N/A	1
18	DECAL- GROUND PICTORIAL (SEE 71-0077)	N/A	1
19	KEY	43-0078	1
20	DECAL - RISK OF FIRE (SEE 71-0077)	N/A	1
21	DECAL - CHECK OIL	N/A	2
22	DECAL - RISK OF BURNS (SEE 71-0077)	N/A	1
23	ENGINE	TEN001377	1
24	WASHER	28-0023	18
25	BOLT	27-0121	4
26	LIFTING BRACKET	13-0243A60	1
27	DECAL- SILVER STICKER	N/A	1
28	TIGHTENER BRACKET	20-0650A01	1
29	BOLT	27-0576	2
30	HOSE	TEN001378	2
31	NIPPLE	24-0054	1
32	ELBOW	24-0006	2
33	DECAL	N/A	1
-	DECAL - CHAMPION 303CAS077	N/A	1
34	DECAL - MAINTENANCE (SEE 71-0077)	N/A	1
35	DECAL - TANK DRAIN (SEE 71-0077)	N/A	2
36	TANK ASSEMBLY	TEN001379	1
37	PETCOCK	23-0312	2
38	HOSE *(TWO FEET REQUIRED)	15-0007	1
39	HOSE CLAMP	42-0011	4
40	HOSE BARB	23-0418	3
41	TENSIONER BRACKET	20-1466A01	1
42	90° ELBOW FITTING	24-0074	1
43	ADAPTER	23-0365	1
44	PILOT VALVE	TEN001380	1
45	PLUG	24-0082	3
46	DECAL - OPERATIONS (SEE 71-0077)	N/A	1
47	BOLT	27-0119	4
48	LOCKNUT	30-0159	8
49	PUMP	N/A	1
50	BOLT	27-0066	2
51	WASHER	28-0003	12
52	SUPPORT BRACKET	13-0241A60	1
53	BOLT	27-9524	3
54	LOCKNUT	30-0157	9
55	SHEAVE	TEN001382	1
56	BUSHING	TEN001383	1
57	KEY	43-0073	1
58	WASHER	28-0022	5
59	BOLT	27-0068	2
60	ADAPTER	51-0047	1
61	ELBOW	24-0240	1
62	BOLT	27-0067	5
63	DECAL - 115 VOLT (SEE 71-0077)	N/A	2
64	GENERATOR - AR1-105/2	TEN001384	1
65	REDUCER	23-0017	1
66	PRESSURE RELIEF VALVE	TEN001385	1
67	PRESSURE GAUGE	TEN001386	2
68	REDUCER	23-0111	2
69	REGULATOR	TEN001387	1
70	QC SOCKET	17-0068	1
71	BOLT	27-0019	4
72	MANIFOLD BLOCK	51-0033	2
73	PLUG	24-0034	1
74	LOCKNUT	30-0155	4
75	NIPPLE	24-0175	2
76	ELBOW	23-0050	1
-	DECAL SET/AG1/AG2	71-0077	1

ALTERNATOR 32-0872



REPAIR PARTS ILLUSTRATION

ITEM	DESCRIPTION	PART	QTY
1	120V-30A RECEPTACLE	32-1081	1
2	END COVER - CAP ONLY	52-0098	1
3	PLUG	39-0234	1
4	CIRCUIT BREAKER	TEN001388	1
5	ALTERNATOR CAP	52-0075	1
6	TERMINAL SPADE	32-0878	4
7	TERMINAL PLUG	52-0077	1
8	SCREW	27-8187	2
9	LOCKWASHER	29-1013	2
10	TERMINAL RING	32-0002	2
11	CAPACITOR	TEN001389	1
12	NUT	30-0058	4
13	LOCKWASHER	29-0110	4
14	BRACKET	52-0094	1
15	FAN	52-0093	1
16	FLANGE	52-0097	1
17	BOLT	27-8032	4
18	BRACKET	52-0095	1
19	SCREW	27-9593	2
20	NUT	30-6001	2
21	BEARING	52-0096	1
22	WASHER	28-0003	1
23	BOLT	27-9584	1
24	TERMINAL FORK	32-0034	3